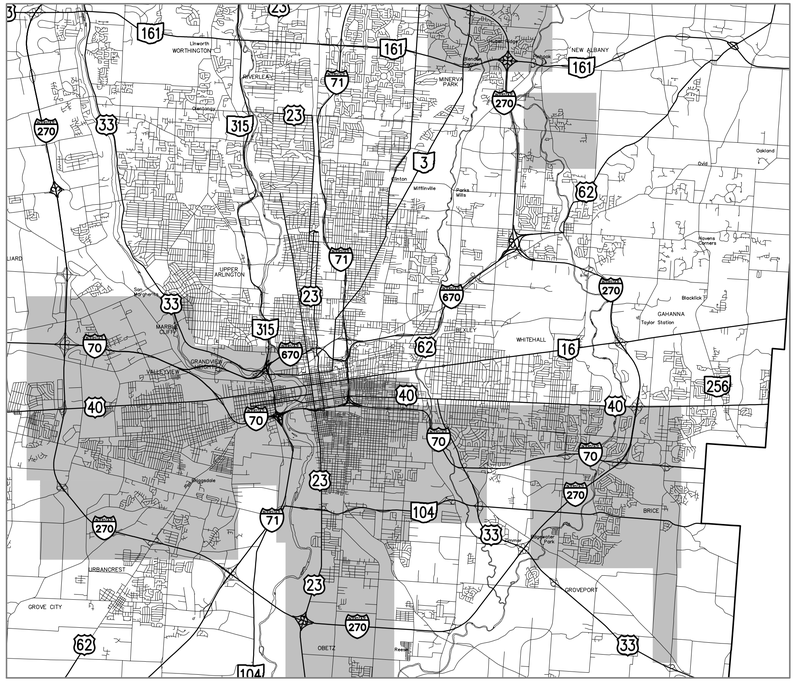
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS
TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE C

VOLUME 2 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

STUDY AREA
SEE SHEET 264 OF 911

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

INDEX OF VOLUME 2 SHEETS

TITLE SHEET 263
LEGEND SHEETS 265,266
PLAN SHEET INDEX 267-271
UTILITY CROSSING INDEX 274,275
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VOLUME 2 SUB-SUMMARY 277-284
INTERCONNECT PLANS AND INTERSECTION DETAILS 303-596

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.

UTILITY LEGENDS ON PLAN SHEETS REFERENCE CITY OF COLUMBUS UTILITIES ONLY

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

REV NO	REVISION DESCRIPTION	SHEET(S)	INITIAL	DATE

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2953-E

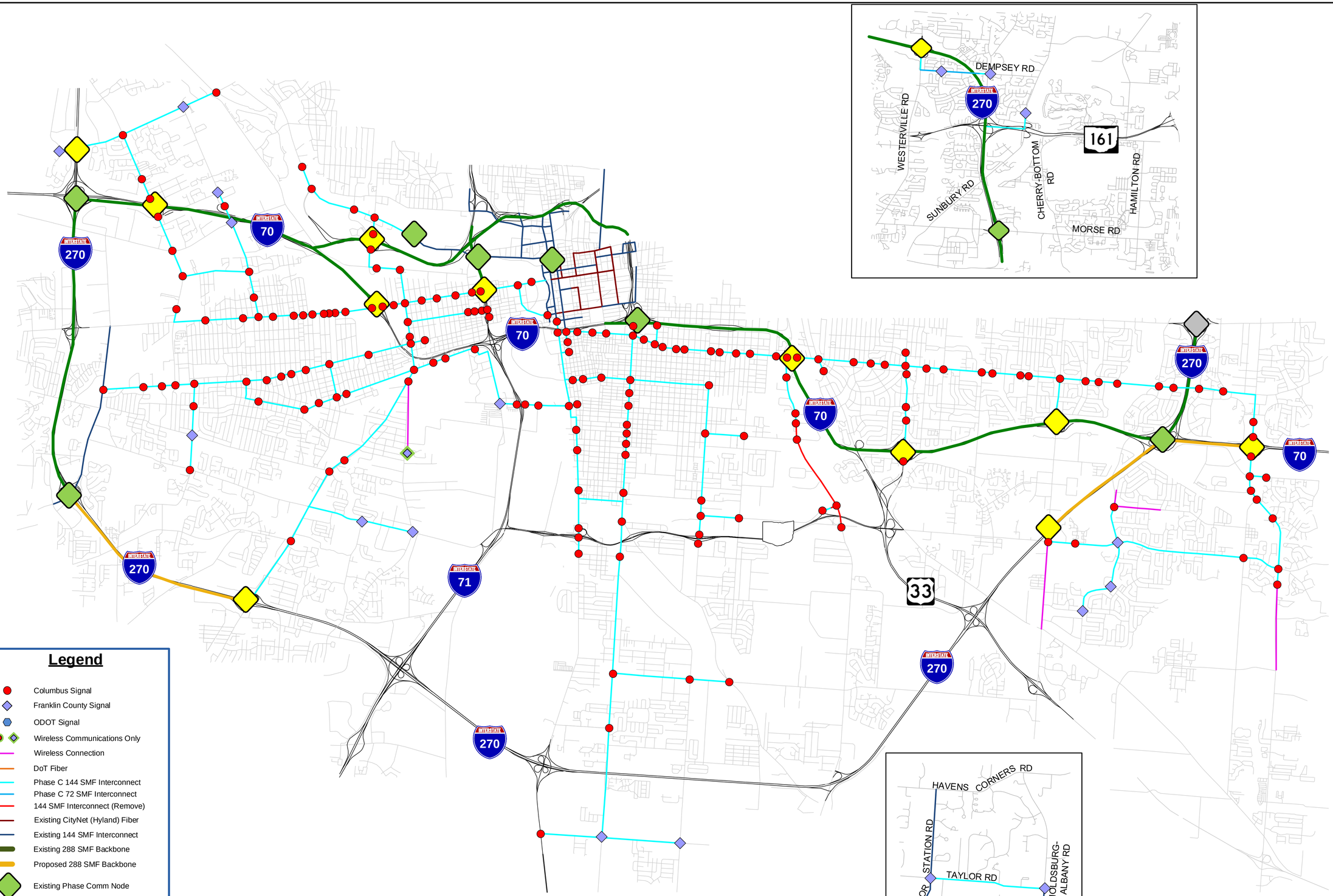
FEDERAL PROJECT NUMBER E100(958)

CIP: 540007-100005
PID NUMBER: 14522

TITLE SHEET
VOLUME 2 OF 3

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

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PID NUMBER: 14522

COMMUNICATIONS OVERVIEW MAP

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

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
- 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 7606636 — AEP POLE WITH XY COORDINATES
- AT&T 1877088 758521 — AT&T POLE WITH XY COORDINATES
- DOP 7606636 — 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

265
911

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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)

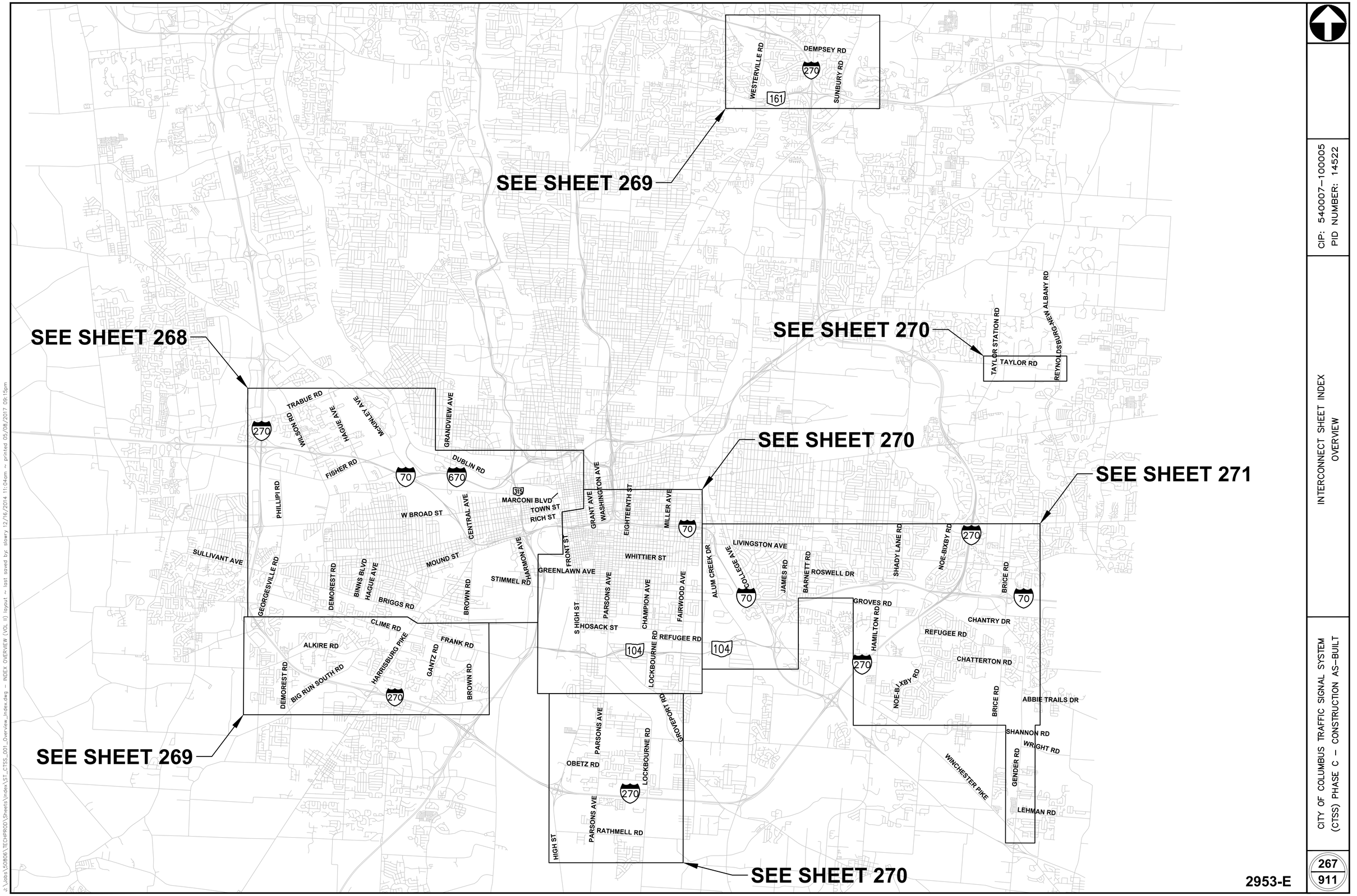
CIP: 540007–100005
PID NUMBER: 14522

PROPOSED LINETYPE AND SYMBOL LEGEND

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

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911

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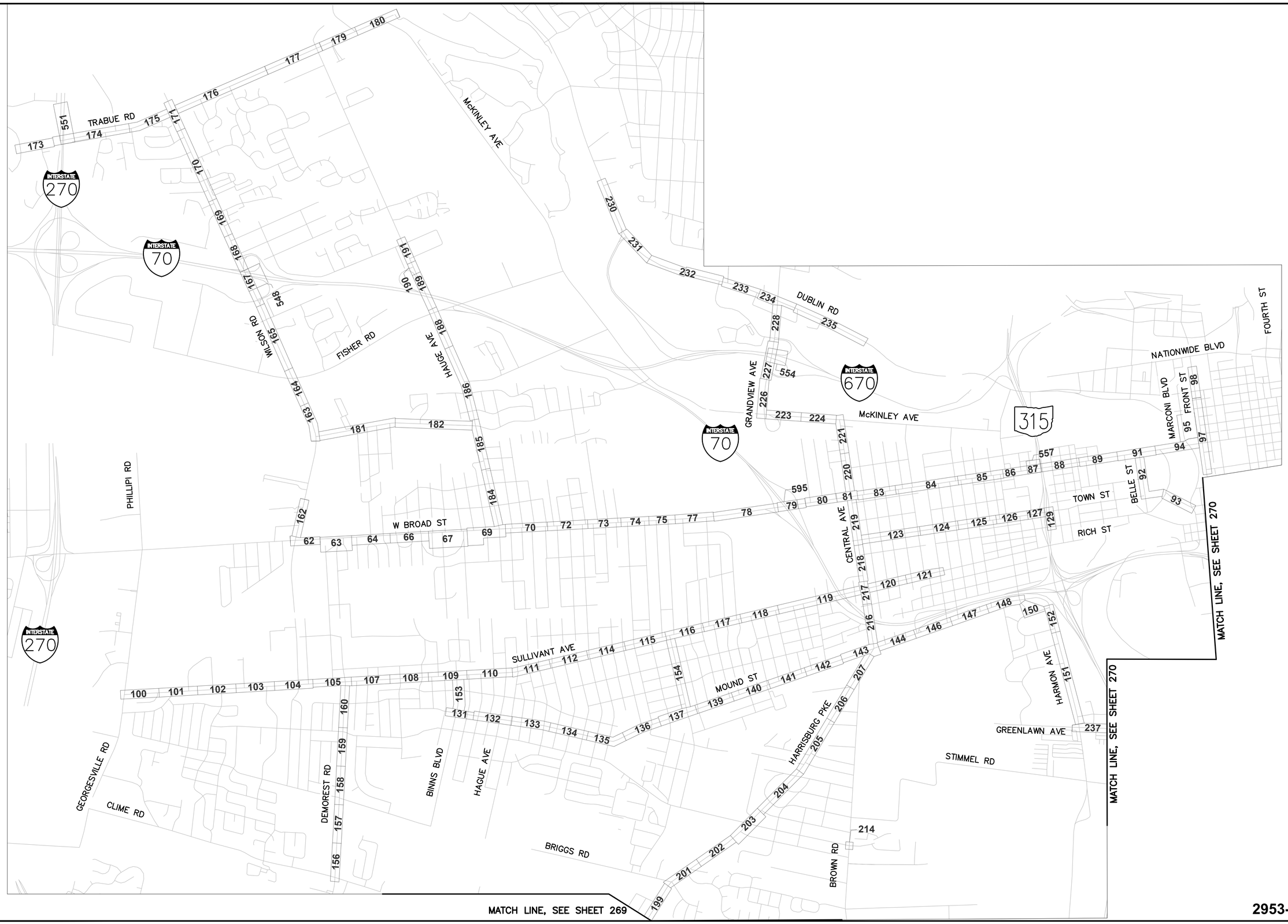
INTERCONNECT SHEET INDEX
OVERVIEW

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

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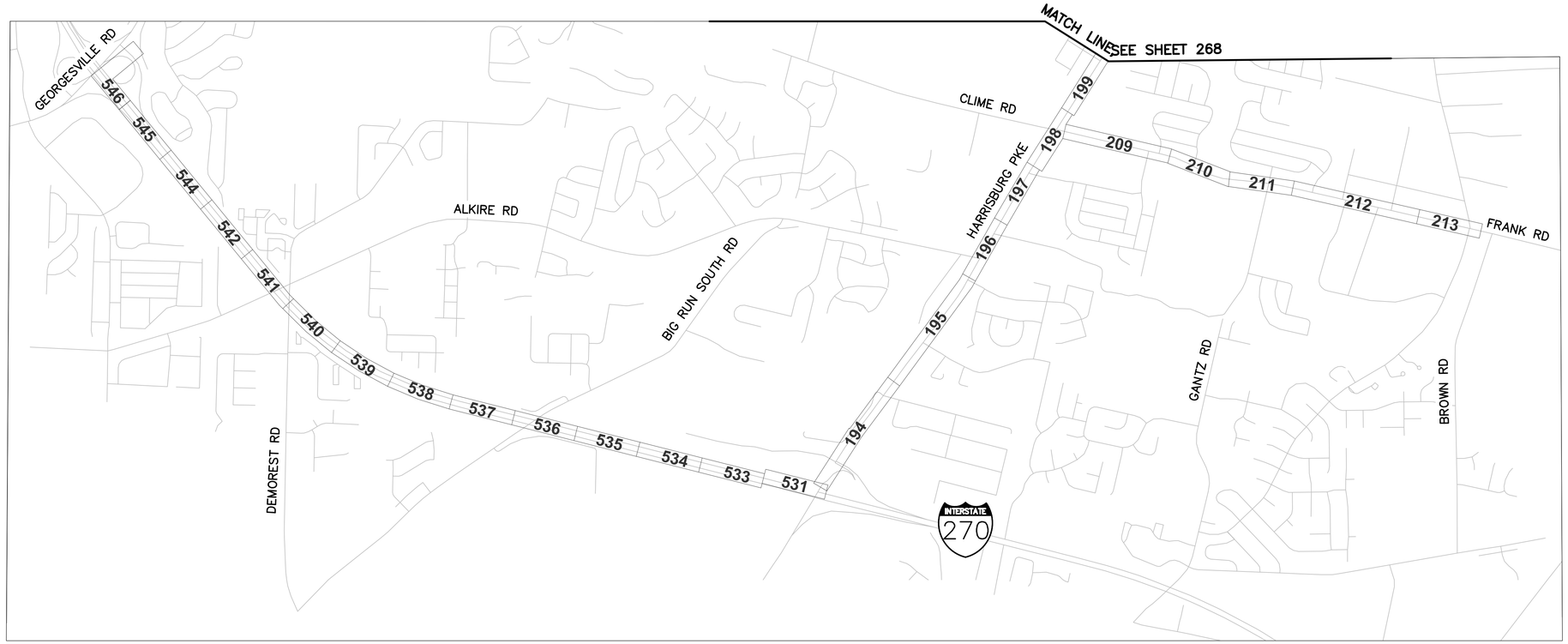
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT SHEET INDEX
(1 OF 4)

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

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911

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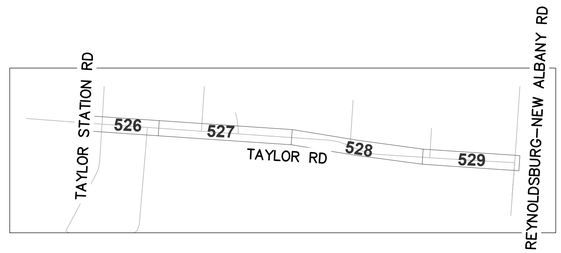
INTERCONNECT SHEET INDEX
(2 OF 4)

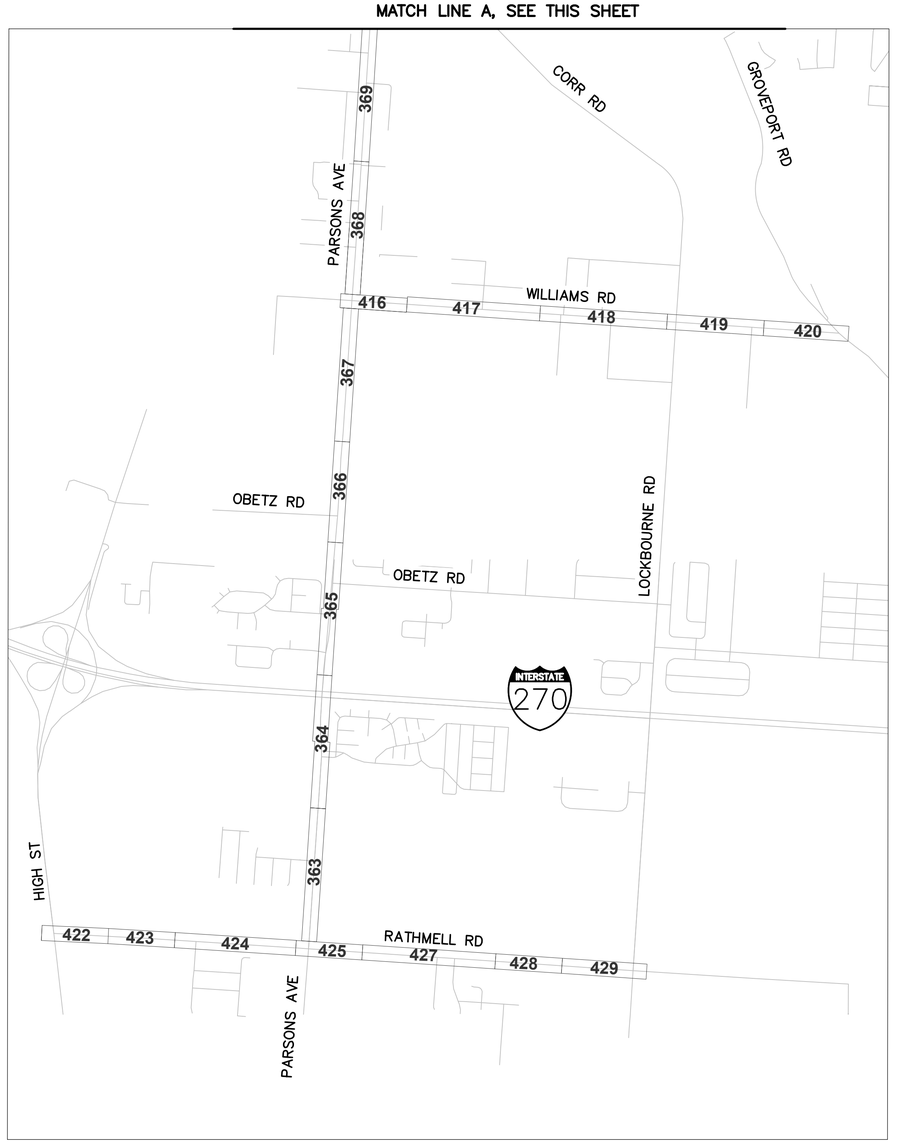
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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911

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CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT SHEET INDEX
(3 OF 4)

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

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CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT SHEET INDEX
(4 OF 4)

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

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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
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

CIP: 540007–100005
PID NUMBER: 14522

INDEX LIST BY INTERSECTION NUMBER
FOR PLAN SHEETS SET 1 OF 2

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

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911

2953-E

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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

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	-	-	-	-	

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2953-E

CIP: 540007-100005
PID NUMBER: 14522

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

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R3-2
S2



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S3



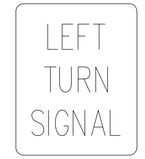
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S9



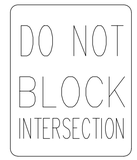
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S15



R6-7
S16



R6-6
S17



S18



R9-3a
S19



R3-5a
S20



R3-6R
S21



R3-6LU
S22



R3-17
S23



R10-5
S24

EXISTING OVERHEAD SIGNAGE SHOWN ON PLAN SHEETS

2953-E

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

276
911

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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
LIVINGSTON AVE.	308	331	3																	
EIGHTEENTH ST.	313	1,135																		
LIVINGSTON AVE.	316	3,534																		
LIVINGSTON AVE.	323																			
COLLEGE AVE.	328																			
LIVINGSTON AVE.	331	45									666									
LIVINGSTON AVE.	337	10																		
LIVINGSTON AVE.	344	6																		
HAMILTON AVE.	348																			
LIVINGSTON AVE.	354	5										17				586				
LIVINGSTON AVE.	362	7							8			12				222				
PARSONS AVE.	371	1,307																		
PARSONS AVE.	378	1,145																		
PARSONS AVE.	386	750																		
WHITTIER ST.	396																			
LOCKBOURNE RD.	403	128																		
LOCKBOURNE RD.	406																			
FREBIS AVE.	409																			
CHAMPION AVE.	412																			
REFUGEE RD.	415																			
WILLIAMS RD.	421																			
RATHMELL RD.	426	16						1	9											
RATHMELL RD.	430	26							10											
ALUM CREEK DR.	439	10																		
ALUM CREEK DR.	444	6																		
JAMES RD.	452	2,392									416		51							
GENDER RD.	463	39																		
GENDER RD.	469	22																		
TUSSING RD.	473	5																		
BRICE RD.	476	21							872				157	122					1,563	
BRICE RD.	477																			
BRICE RD.	480	10																		
NOE-BIXBY RD.	484	8																		
NOE-BIXBY RD.	489																			
REFUGEE RD.	492																			
SUB TOTAL		**10,958**	**3**					**1**	**899**		**1,082**	**29**	**208**	**122**		**808**			**1,563**	

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 2 - SHEET 1A

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

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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
LIVINGSTON AVE.	308																1		5,733	
EIGHTEENTH ST.	313																		1,103	
LIVINGSTON AVE.	316																1		6,580	
LIVINGSTON AVE.	323																		8,718	
COLLEGE AVE.	328																		746	
LIVINGSTON AVE.	331											2			333		2		9,392	
LIVINGSTON AVE.	337																		7,933	
LIVINGSTON AVE.	344																		8,229	
HAMILTON AVE.	348																		3,010	
LIVINGSTON AVE.	354												1		17		1		9,474	
LIVINGSTON AVE.	362											1	1		20		2		9,384	311
PARSONS AVE.	371																2		19,722	
PARSONS AVE.	378																		11,227	
PARSONS AVE.	386																		9,889	
WHITTIER ST.	396																2		11,915	
LOCKBOURNE RD.	403																		10,111	
LOCKBOURNE RD.	406																		2,534	
FREBIS AVE.	409																1		2,946	
CHAMPION AVE.	412																		3,267	
REFUGEE RD.	415																		2,997	
WILLIAMS RD.	421																		10,269	
RATHMELL RD.	426											1			9		1		6,432	269
RATHMELL RD.	430																		5,319	
ALUM CREEK DR.	439																		2,001	
ALUM CREEK DR.	444																		4,965	
JAMES RD.	452											1			259				8,643	627
GENDER RD.	463																		1,033	
GENDER RD.	469																	1	8,329	
TUSSING RD.	473																		952	
BRICE RD.	476	521		1							2	1			593		4		4,735	
BRICE RD.	477																			
BRICE RD.	480																		2,921	
NOE-BIXBY RD.	484																		4,334	
NOE-BIXBY RD.	489																		5,071	
REFUGEE RD.	492																			
SUB TOTAL		**521**		**1**							**2**	**6**	**2**		**1,231**		**17**	**1**	**209,914**	**1,207**

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 2 – SHEET 1B

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

2953-E

278
911

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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
LIVINGSTON AVE.	308						3,894		331			4		1			5	1			
EIGHTEENTH ST.	313								1,135		1							1			
LIVINGSTON AVE.	316							1,488	3,201		1	5					3	2	1		
LIVINGSTON AVE.	323							6,984				7					4	2			
COLLEGE AVE.	328											1					1				
LIVINGSTON AVE.	331							6,271	29			3		1				3	2		
LIVINGSTON AVE.	337							6,105				3		1				3	2		
LIVINGSTON AVE.	344							7,049	6			4					1	2	1		
HAMILTON AVE.	348							2,522													
LIVINGSTON AVE.	354							7,303				3		1			4	1			
LIVINGSTON AVE.	362							7,663				5					2	2			
PARSONS AVE.	371						8,272	6,185				1						1			
PARSONS AVE.	378							7,203				3		1			1	4			
PARSONS AVE.	386							7,262	411		1	5		1			2	6			
WHITTIER ST.	396							7,753				4					2	2			
LOCKBOURNE RD.	403							8,363	42			3		2			1	3			
LOCKBOURNE RD.	406							2,200													
FREBIS AVE.	409							2,533				1					1				
CHAMPION AVE.	412							31													
REFUGEE RD.	415							2,509				1					1				
WILLIAMS RD.	421											2		1			3	1			
RATHMELL RD.	426						81					2		1				3			
RATHMELL RD.	430											1					1				
ALUM CREEK DR.	439							9,087	10			2					1	1			
ALUM CREEK DR.	444							4,211	6			2						2			
JAMES RD.	452							4,910			1	4					3	2			
GENDER RD.	463											1									
GENDER RD.	469							466	22			2		1				2	2		
TUSSING RD.	473							864	5			1					1				
BRICE RD.	476							3,816	21			3		1			1	3	1		
BRICE RD.	477																				
BRICE RD.	480							2,287				1					1				
NOE-BIXBY RD.	484											2						2			
NOE-BIXBY RD.	489											1					1				
REFUGEE RD.	492																				
SUB TOTAL							**12,247**	**115,065**	**5,219**		**4**	**77**		**12**			**40**	**53**	**9**		

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 2 – SHEET 1C

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

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LOCATION	SHEET NO.	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE EACH	632 SIGNALIZATION, MISC.: AERIAL STANDOFF, ATTACHED TO BRIDGE EACH	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED FT	632 SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	632 SIGNALIZATION, MISC.: CELLULAR ETHERNET COMMUNICATIONS UNIT EACH	632 WOOD POLE, CLASS 5, 35 FT EACH	633 CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN EACH	633 CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN EACH	633 CABINET, TYPE 334, AS PER PLAN EACH	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE 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.: LAYER 3 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
LIVINGSTON AVE.	308	581												10		3			2	1
EIGHTEENTH ST.	313													1		1				1
LIVINGSTON AVE.	316	1,511				312	1							11	3	4				1
LIVINGSTON AVE.	323	7,089	2			45	1							12		6				6
COLLEGE AVE.	328	671												1		1			1	
LIVINGSTON AVE.	331	6,613	4						1					9		4			3	1
LIVINGSTON AVE.	337	6,126				55	1							10		4			2	2
LIVINGSTON AVE.	344	6,973												8		4			1	3
HAMILTON AVE.	348	2,560																		
LIVINGSTON AVE.	354	7,518				50	1		1					8		4			1	3
LIVINGSTON AVE.	362	7,755												8		4			1	3
PARSONS AVE.	371	7,859												2		1				1
PARSONS AVE.	378	6,443												9		4			1	3
PARSONS AVE.	386	7,575												16		7				7
WHITTIER ST.	396	9,815												8		4			1	3
LOCKBOURNE RD.	403	8,490	3		141									12		5				5
LOCKBOURNE RD.	406	2,234																		
FREBIS AVE.	409	2,571												1		1				1
CHAMPION AVE.	412	2,817																		
REFUGEE RD.	415	2,547												1		1				1
WILLIAMS RD.	421	8,522				45	1							8		3			1	2
RATHMELL RD.	426	5,463				220	1							6	1	2			1	
RATHMELL RD.	430	4,591												2		1				
ALUM CREEK DR.	439	987						4						3		5				5
ALUM CREEK DR.	444	4,274												4		2			1	1
JAMES RD.	452	5,097			335									9		5			2	3
GENDER RD.	463	1,316			758				2					2		3		4	2	1
GENDER RD.	469	6,971				112	2		4					6		3			2	1
TUSSING RD.	473	677												1		1			1	
BRICE RD.	476	3,991																		
BRICE RD.	477				336				3					9		4			3	1
BRICE RD.	480	2,321												2		1				1
NOE-BIXBY RD.	484	3,726							2		1			4		2			1	1
NOE-BIXBY RD.	489	4,526			265									2		2		3	2	
REFUGEE RD.	492				45											1		1	1	
SUB TOTAL		**150,410**	**9**		**1,880**	**839**	**8**	**4**	**13**		**1**			**185**	**4**	**93**		**8**	**30**	**58**

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 2 - SHEET 1D

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
CHATTERTON RD.	498	63						1	40					56						
CHATTERTON RD.	499																			
CHATTERTON RD.	506	5							18			3,983		1,324		144				
CHATTERTON RD.	509	8							68			980		248		104				
DEMPSEY RD.	515	5,006							216		834				700					
SUNBURY RD.	525	2,190			20	20	1				3,028				298					
TAYLOR RD.	530	30																		
I-270 @ HARRISBURG PIKE	532										1,600				188	422				
SW I-270	543	667									20,774									
SW I-270	547	806									5,544									
I-70 @ WILSON RD	549	19							488	404	696			545				414		
I-70 @ WILSON RD	550																			
I-270 @ TRABUE RD.	552								126		2,084							98		
I-270 @ TRABUE RD.	553																			
I-670 AT GRANDVIEW RD.	555	554							268		40			232				285		
I-670 AT GRANDVIEW RD.	556																			
SR-315 @ W. BROAD ST.	558	6							772	90	64		24	56						1,347
SR-315 @ W. BROAD ST.	559																			
I-70 @ LIVINGSTON AVE.	561	617							88		94							79		
I-70 @ LIVINGSTON AVE.	562																			
I-70 @ JAMES RD.	564	662							34		142									537
I-70 @ JAMES RD.	565																			
I-70 @ HAMILTON RD.	567	686							390		130			120						870
I-70 @ HAMILTON RD.	568																			
I-270 @ HAMILTON RD.	570								248	20	1,624		216	284		518		279		
I-270 @ HAMILTON RD.	571																			
SE I-270	580	2,772									11,024			32		1,018				
I-70 @ I-270	584	685									9,790			180		114				
I-70 @ BRICE RD.	587								108	62	2,789			910		32			60	
I-70 @ BRICE RD.	588																			
I-70 @ BRICE RD.	591										4,201				93					
I-270 @ WESTERVILLE RD.	593								700	454	168			758					1,548	
I-270 @ WESTERVILLE RD.	594																			
I-70 @ W. BROAD ST.	596	179							312				38					191		
SUB TOTAL		**14,955**			**20**	**20**	**1**	**1**	**3,876**	**1,030**	**64,626**	**4,963**	**278**	**4,745**	**1,279**	**2,352**		**1,346**	**1,608**	**2,754**

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

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CIP: 540007–100005
PID NUMBER: 14522

SUB SUMMARY
VOLUME 2 – SHEET 2A

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

LOCATION	SHEET NO.	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	625 NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	625 POWER SERVICE, TYPE A, AS PER PLAN	625 POWER SERVICE, TYPE B, AS PER PLAN	625 POWER SERVICE, TYPE C, AS PER PLAN	625 POWER SERVICE, TYPE D, AS PER PLAN	625 POWER SERVICE, TYPE E, AS PER PLAN	625 POWER SERVICE, TYPE F, AS PER PLAN	625 POWER SERVICE, TYPE G, AS PER PLAN	625 PULL BOX, 18", AS PER PLAN	625 PULL BOX, 32", AS PER PLAN	625 PULL BOX, 48", AS PER PLAN	625 PULL BOX, REMOVED, AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	625 TRENCH IN PAVED AREA, 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.: FIBER OPTIC CABLE, 24 STRAND
		FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	FT	FT
CHATTERTON RD.	498											1			20		2		7,059	
CHATTERTON RD.	499																			
CHATTERTON RD.	506											15			3,992		1		9,789	
CHATTERTON RD.	509											8			1,014		4		3,408	
DEMPSEY RD.	515											6			525		4		3,314	
SUNBURY RD.	525											4			1,514		1		1,360	150
TAYLOR RD.	530																		8,021	
I-270 @ HARRISBURG PIKE	532											4	1		789				75	450
SW I-270	543											17			10,387					
SW I-270	547											4			2,772					225
SW I-270	549	1,460							1		4	4	2		719		4		310	948
I-70 @ WILSON RD	550																			
I-270 @ TRABUE RD.	552	294					1				1	2	2		1,105		2		2,512	1,581
I-270 @ TRABUE RD.	553																			
I-670 AT GRANDVIEW RD.	555	855		1							3		2		154		2		1,688	1,219
I-670 AT GRANDVIEW RD.	556																			
SR-315 @ W. BROAD ST.	558		449							1	5		1		426		2		150	450
SR-315 @ W. BROAD ST.	559																			
I-70 @ LIVINGSTON AVE.	561	237					1				1		1		91		2		3,311	775
I-70 @ LIVINGSTON AVE.	562																			
I-70 @ JAMES RD.	564		179	1							1		2		88		3		1,811	1,270
I-70 @ JAMES RD.	565																			
I-70 @ HAMILTON RD.	567		290	1							6		2		200		4		2,236	1,319
I-70 @ HAMILTON RD.	568																			
I-270 @ HAMILTON RD.	570	837					1				2	5	2		793		2		344	300
I-270 @ HAMILTON RD.	571																			
SE I-270	580											12	1		5,512					
I-70 @ I-270	584											9	1	1	4,886					
I-70 @ BRICE RD.	587	20										10	1		1,476		4		838	616
I-70 @ BRICE RD.	588																			
I-70 @ BRICE RD.	591											5			4,201					4,744
I-270 @ WESTERVILLE RD.	593	516			1						5	1	1		681		2		389	
I-270 @ WESTERVILLE RD.	594																			
I-70 @ W. BROAD ST.	596	573				1					2				194		2		150	
SUB TOTAL		**4,792**	**918**	**3**	**1**	**1**	**3**		**1**	**1**	**30**	**108**	**19**	**1**	**41,581**		**41**		**47,097**	**14,047**

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

J:\Jobs\50806\TECHPROJ\Sheets\CTSS_PhC_SUB_SUMMARY_VOLUME-II.dwg - VOLUME 2 - SHEET 2B layout ~ last saved by: gburch 12/31/2014 11:49am ~ printed 05/08/2017 09:18am

LOCATION	SHEET NO.	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 72 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 72 STRAND, PRE-TERMINATED FT	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT FT	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER EACH	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, 144 FIBER, 4 RU EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU 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 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU EACH
CHATTERTON RD.	498							4,376	39		1	1						1	1		
CHATTERTON RD.	499																				
CHATTERTON RD.	506													1				2			
CHATTERTON RD.	509											1							1		
DEMPSEY RD.	515		5,590						2,891		1	2	1					2			
SUNBURY RD.	525	4,196									3	1							1		
TAYLOR RD.	530						222		14			1		1				2			
I-270 @ HARRISBURG PIKE	532	1,568		740						1	1	1									2
SW I-270	543	11,954																			
SW I-270	547	3,945		186								1			1						
SW I-270	549			1,096	100					1	1	1									
I-70 @ WILSON RD	550													1	2	1					1
I-270 @ TRABUE RD.	552			384	96					1		1		2	2	1					1
I-270 @ TRABUE RD.	553																				
I-670 AT GRANDVIEW RD.	555			388	97					1		1		2	2	1					
I-670 AT GRANDVIEW RD.	556																				1
SR-315 @ W. BROAD ST.	558			404						1		2									2
SR-315 @ W. BROAD ST.	559																				
I-70 @ LIVINGSTON AVE.	561			784						1		4		1							2
I-70 @ LIVINGSTON AVE.	562																				
I-70 @ JAMES RD.	564			388	97					1		1		2	2	1					1
I-70 @ JAMES RD.	565																				
I-70 @ HAMILTON RD.	567			380	95		122			1	1			2	2						
I-70 @ HAMILTON RD.	568															1					1
I-270 @ HAMILTON RD.	570	1,432		190	20						2										1
I-270 @ HAMILTON RD.	571														2	1	1				
SE I-270	580	9,809																			
I-70 @ I-270	584	6,598		902	10							4									4
I-70 @ BRICE RD.	587	1,370		424				457		1		1		1							2
I-70 @ BRICE RD.	588																				
I-70 @ BRICE RD.	591																				
I-270 @ WESTERVILLE RD.	593			206	942					1	2					2					2
I-270 @ WESTERVILLE RD.	594																				
I-70 @ W. BROAD ST.	596			808	450					1		2									2
SUB TOTAL		**40,872**	**5,590**	**7,280**	**1,907**		**344**	**4,833**	**2,944**	**11**	**12**	**25**	**1**	**13**	**13**	**8**	**1**	**7**	**3**	**21**

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 2 - SHEET 2C

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

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_SUB_SUMMARY_VOLUME-II.dwg - VOLUME 2 - SHEET 2C layout - last saved by gburch 12/31/2014 11:49am - printed 05/08/2017 09:18am

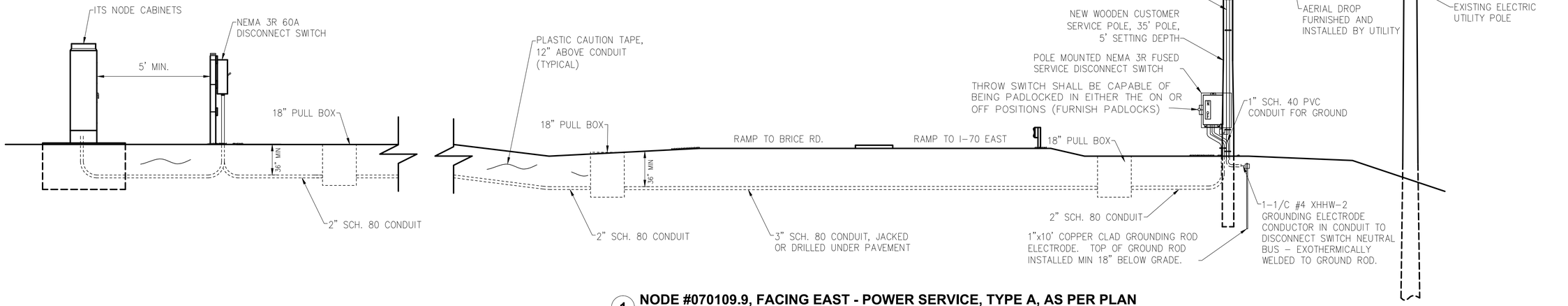
LOCATION	SHEET NO.	632	632	632	632	632	632	632	632	633	633	633	633	633	633	633	633	633	633
		MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE	SIGNALIZATION, MISC.: AERIAL STANDOFF, ATTACHED TO BRIDGE	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR 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
CHATTERTON RD.	498	6,320			431	423	2		3					4					
CHATTERTON RD.	499															3		2		1
CHATTERTON RD.	506	3,604							2					4		1				
CHATTERTON RD.	509	1,694				53	1		3					3		1				1
DEMPSEY RD.	515	2,089							1		1			4		2				2
SUNBURY RD.	525	1,188							3					2		1				1
TAYLOR RD.	530	6,911												6		1				
I-270 @ HARRISBURG PIKE	532												1	5			1			
SW I-270	543																			
SW I-270	547													2		1				
SW I-270	549																			
I-70 @ WILSON RD	550				143								1	10		1	1			
I-270 @ TRABUE RD.	552																			
I-270 @ TRABUE RD.	553												1	8			1			
I-670 AT GRANDVIEW RD.	555																			
I-670 AT GRANDVIEW RD.	556				117				1				1	8			1			
SR-315 @ W. BROAD ST.	558																			
SR-315 @ W. BROAD ST.	559				71								1	11		1	2			1
I-70 @ LIVINGSTON AVE.	561				75								1	9						
I-70 @ LIVINGSTON AVE.	562																1			
I-70 @ JAMES RD.	564																			
I-70 @ JAMES RD.	565	127			22				2				1	8			1			
I-70 @ HAMILTON RD.	567																			
I-70 @ HAMILTON RD.	568	19			77				1				1	6			1			
I-270 @ HAMILTON RD.	570																			
I-270 @ HAMILTON RD.	571	120							1				1	3			1			
SE I-270	580																			
I-70 @ I-270	584													2						
I-70 @ BRICE RD.	587																			
I-70 @ BRICE RD.	588	39			167				2				1	8			1			
I-70 @ BRICE RD.	591																			
I-270 @ WESTERVILLE RD.	593												1							
I-270 @ WESTERVILLE RD.	594													6			1			
I-70 @ W. BROAD ST.	596	15			385								1	6			1			
SUB TOTAL		**22,126**			**1,488**	**476**	**3**		**19**		**1**		**12**	**115**		**12**	**13**	**2**		**6**

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

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_SUB_SUMMARY_VOLUME-II.dwg - VOLUME 2 - SHEET 2D layout ~ last saved by gburch 12/31/2014 11:49am ~ printed 05/08/2017 09:19am

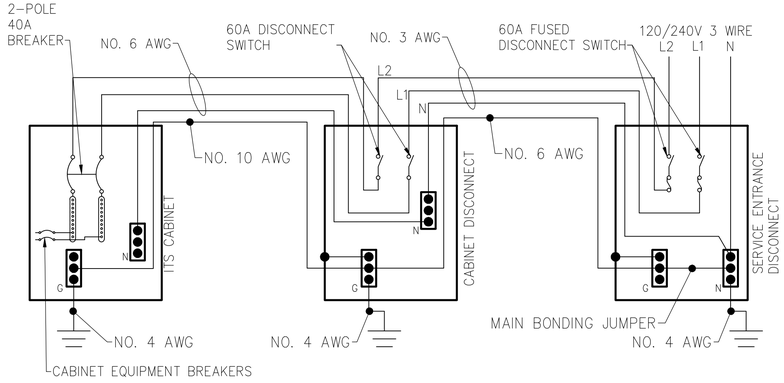
NOTES:

1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 585 FOR NODE SITE PLAN.



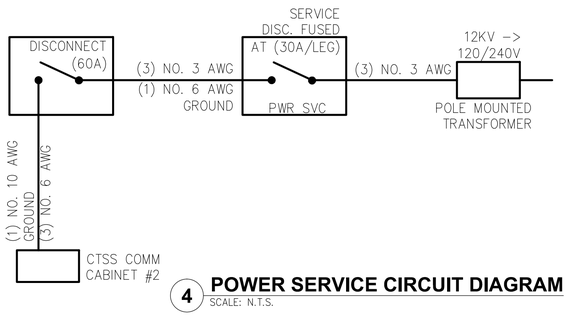
1 NODE #070109.9, FACING EAST - POWER SERVICE, TYPE A, AS PER PLAN

SCALE: N.T.S.



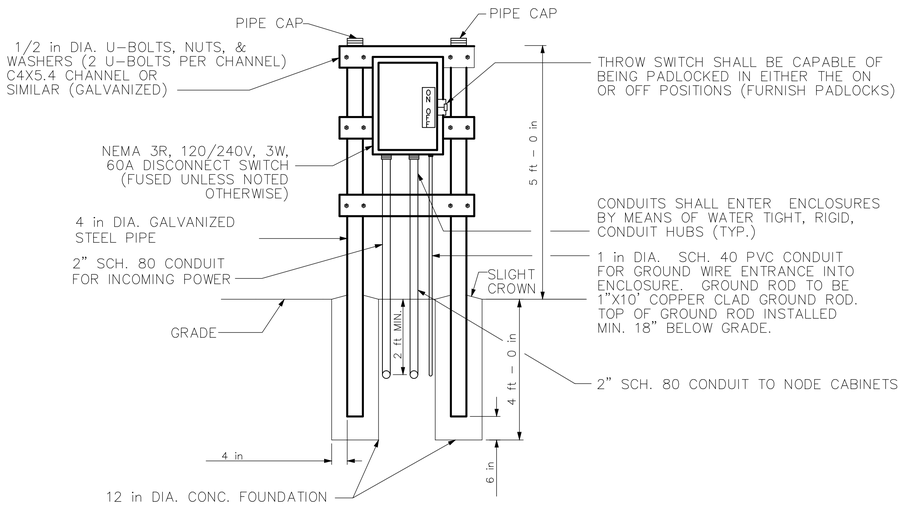
2 WIRING DIAGRAM

SCALE: N.T.S.



4 POWER SERVICE CIRCUIT DIAGRAM

SCALE: N.T.S.



3 DISCONNECT ELEVATION

SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

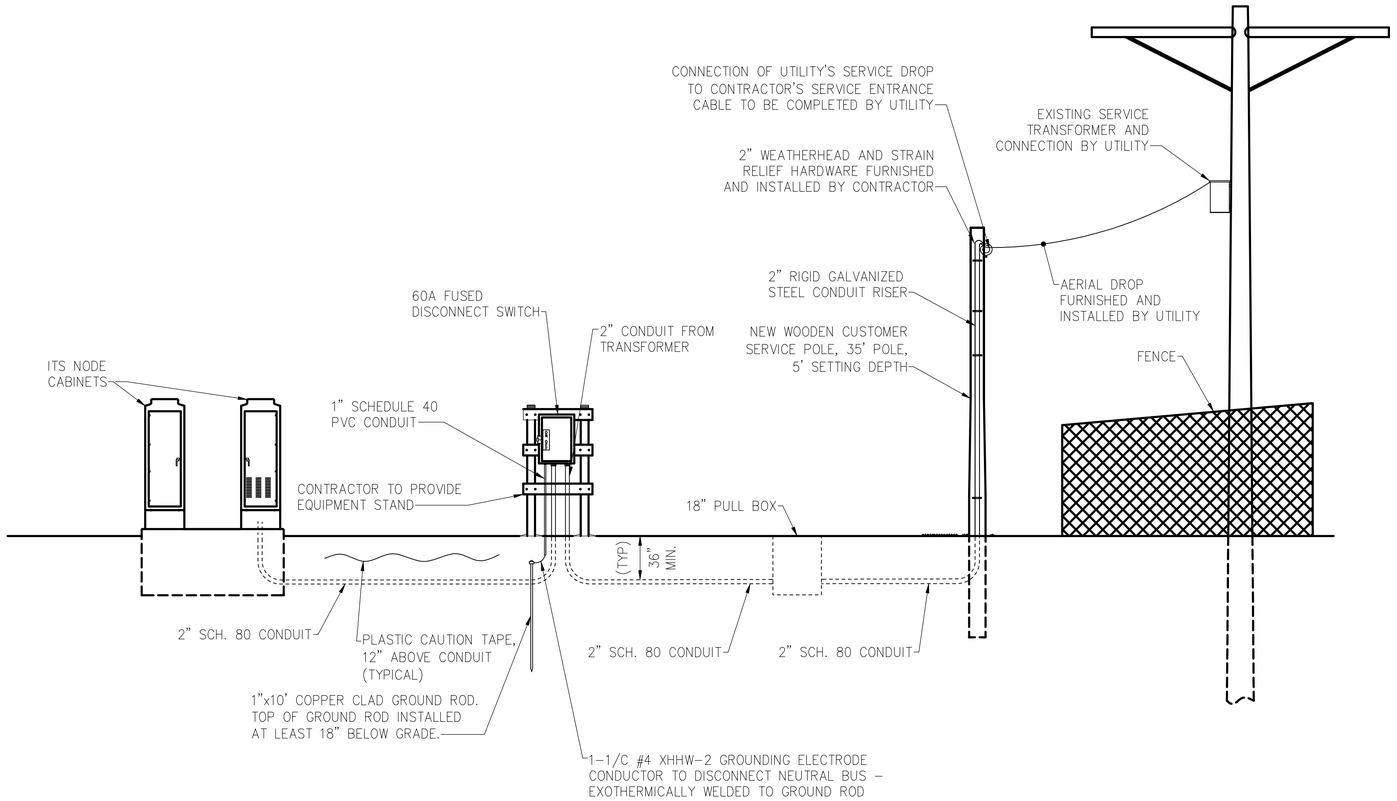
COMMUNICATIONS NODE POWER DETAILS
NODE #070109.9 - I-70 AT BRICE ROAD

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

285
911

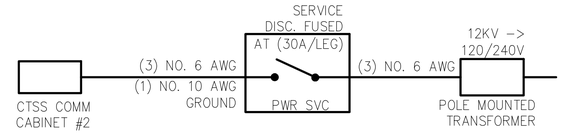
2953-E

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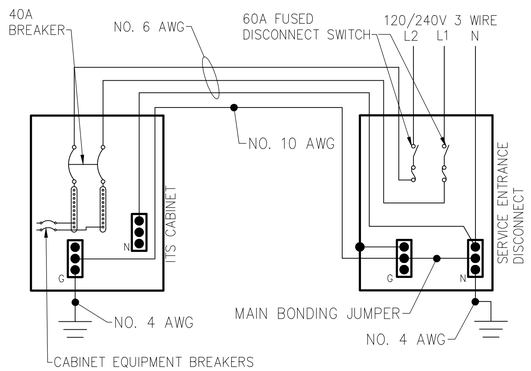


1 NODE #070094.1, FACING SOUTHWEST - POWER SERVICE, TYPE F, AS PER PLAN
SCALE: N.T.S.

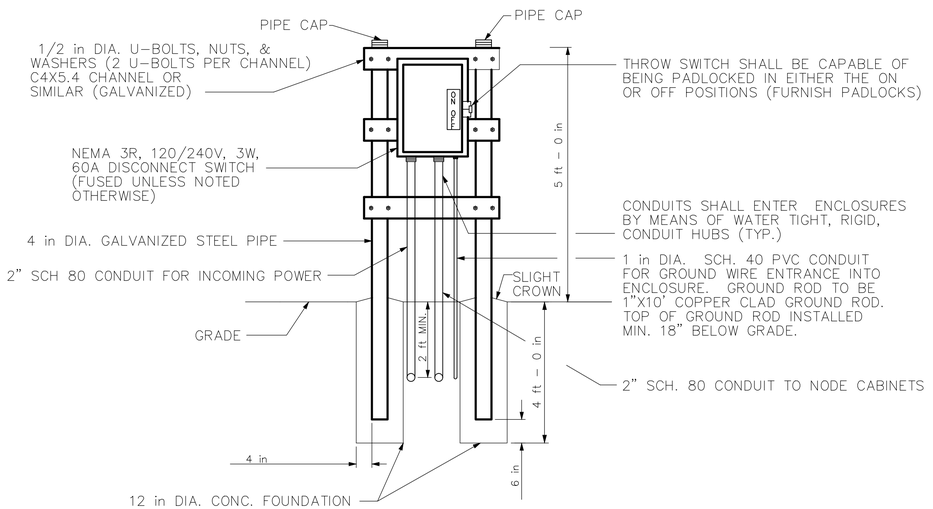
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 548 FOR NODE SITE PLAN



2 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE ELEVATION
SCALE: N.T.S.

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

COMMUNICATIONS NODE POWER DETAILS
NODE #070094.1 - I-70 AT WILSON ROAD

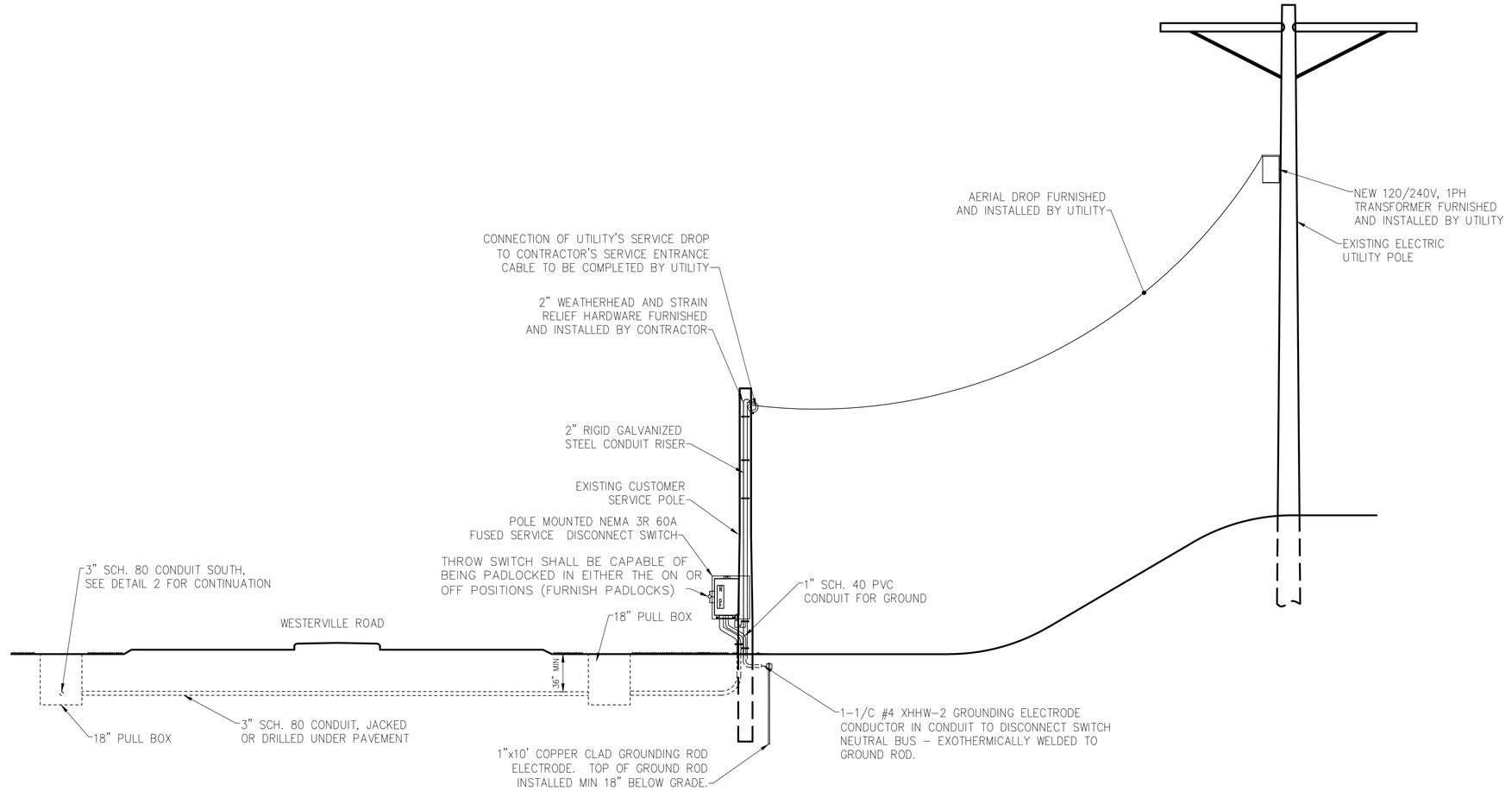
CIP: 540007-100005
PID NUMBER: 14522

286
911

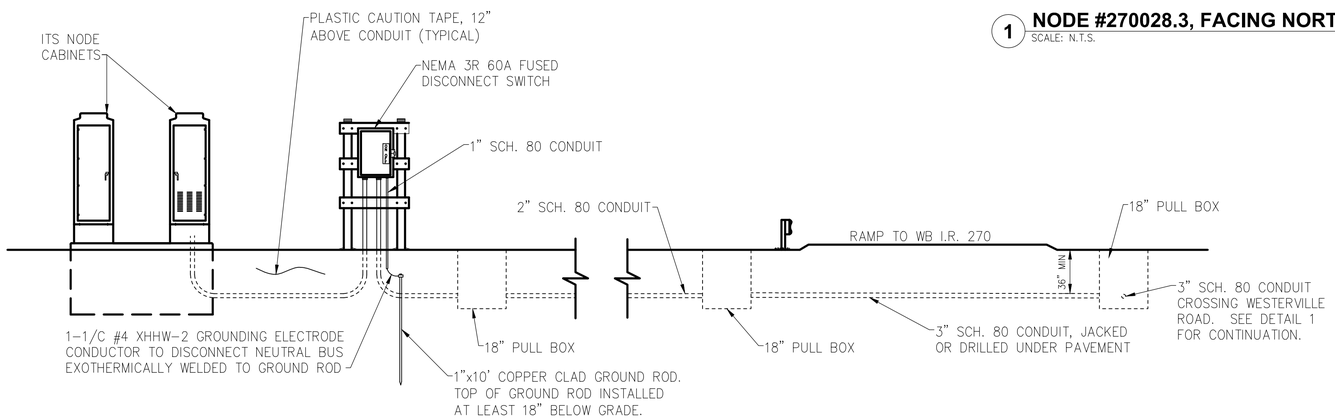
2953-E

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NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 592 FOR NODE SITE PLAN.



1 NODE #270028.3, FACING NORTH - POWER SERVICE, TYPE B, AS PER PLAN
SCALE: N.T.S.



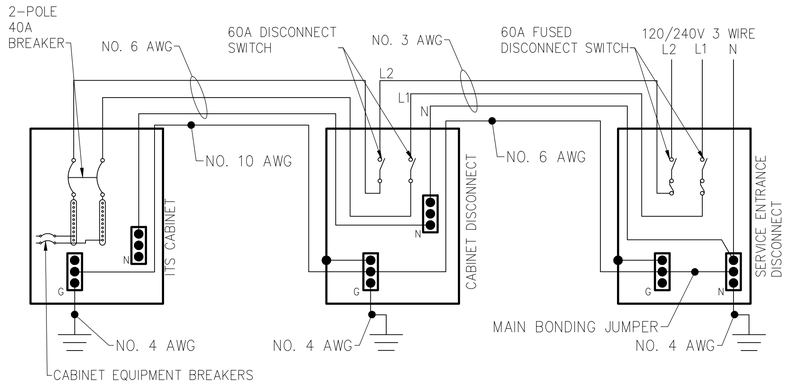
2 POWER SERVICE, NODE #270028.3, FACING WEST
SCALE: N.T.S.

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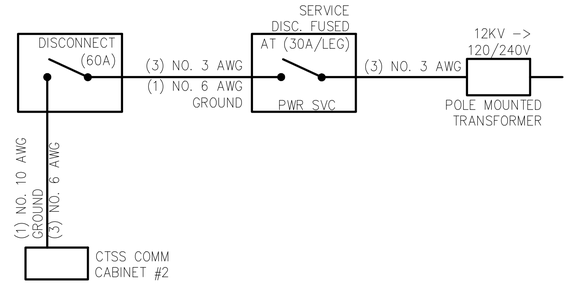
CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #270028.3 - I-270 AT WESTERVILLE ROAD

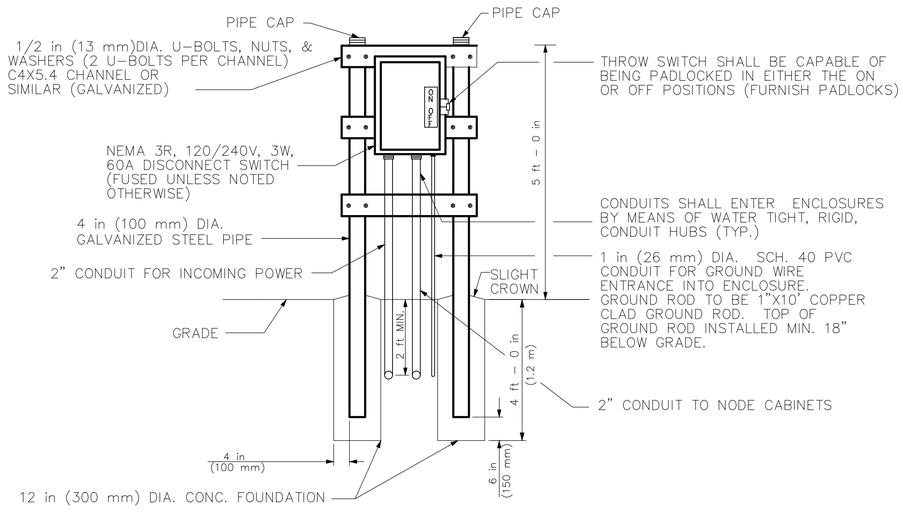
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT



1 WIRING DIAGRAM
SCALE: N.T.S.



2 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



3 DISCONNECT ELEVATION
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #270028.3 – I-270 AT WESTERVILLE ROAD

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

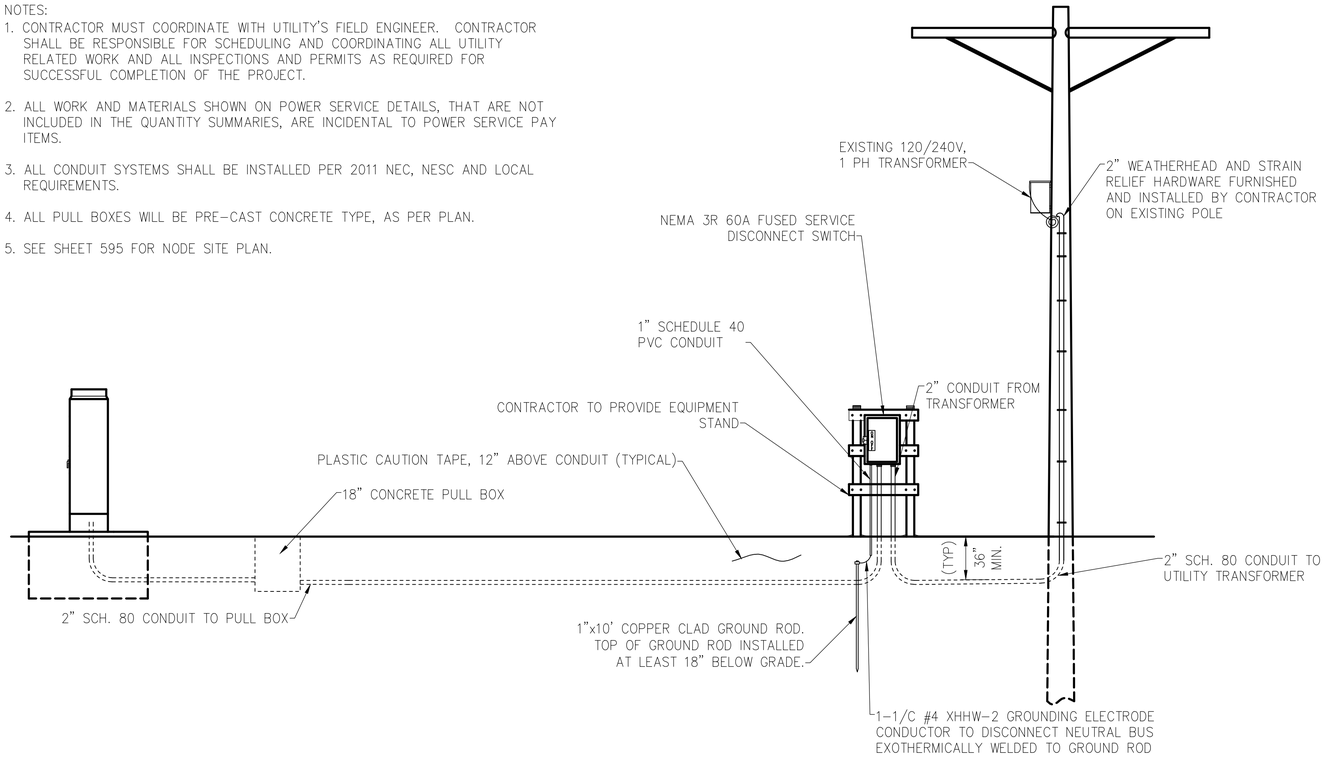
2953-E

288
911

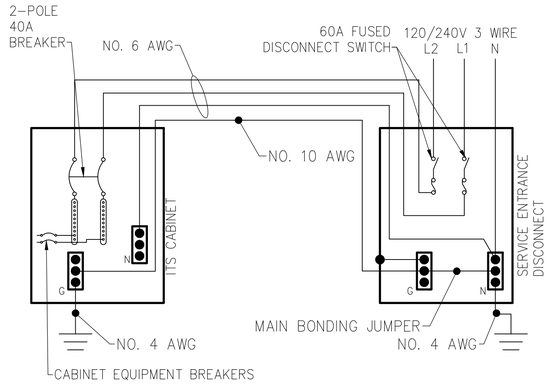
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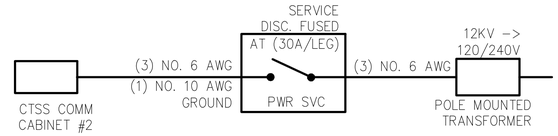
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 595 FOR NODE SITE PLAN.



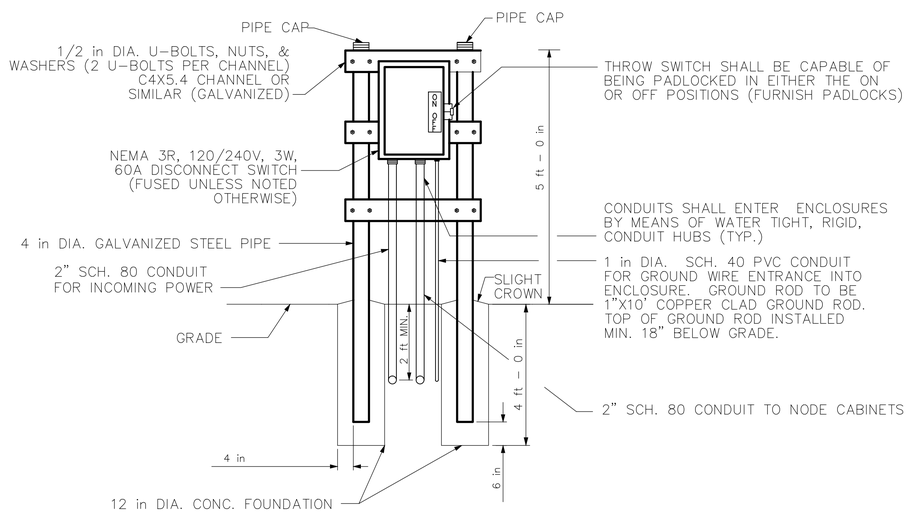
1 NODE #070097.3, FACING NORTH - POWER SERVICE, TYPE C, AS PER PLAN
SCALE: N.T.S.



2 WIRING DIAGRAM
SCALE: N.T.S.



3 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE ELEVATION
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

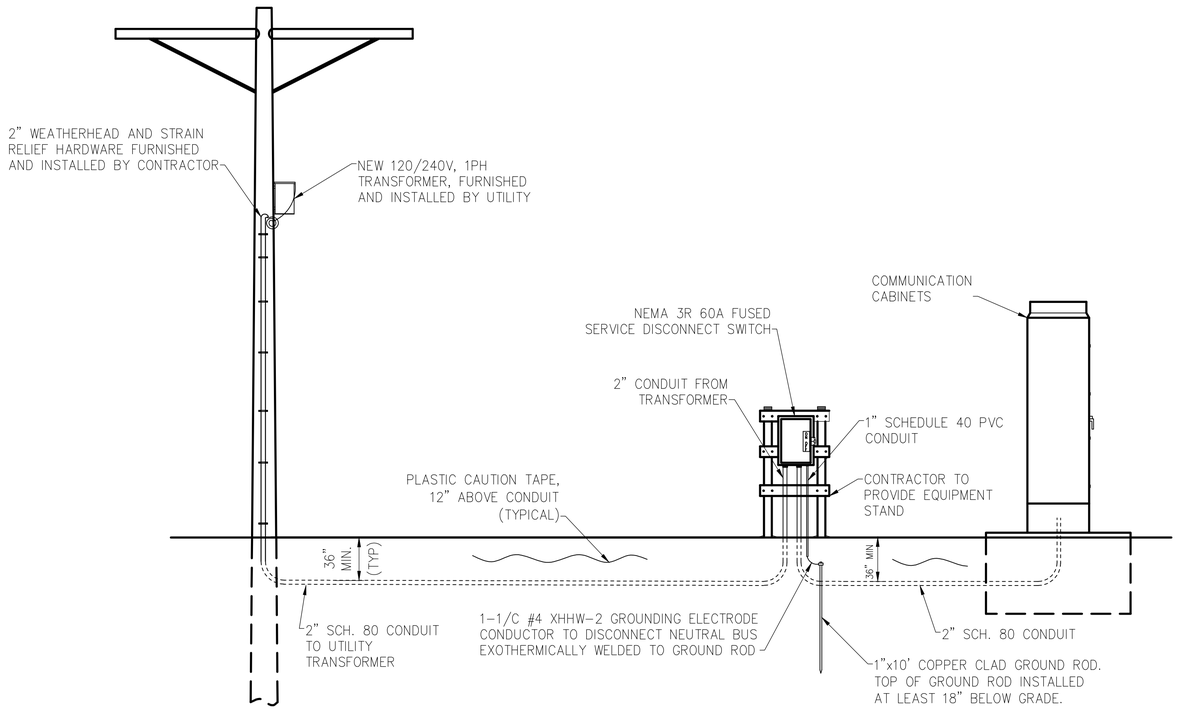
COMMUNICATIONS NODE POWER DETAILS
NODE #070097.3 – I-70 AT W. BROAD STREET

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

289
911

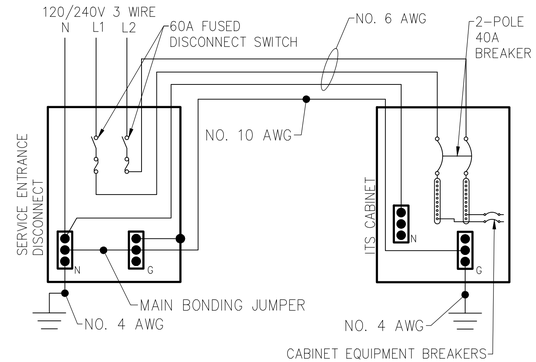
2953-E

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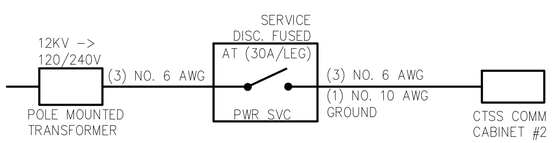


1 NODE #270009.3, FACING SOUTH - POWER SERVICE, TYPE D, AS PER PLAN
SCALE: N.T.S.

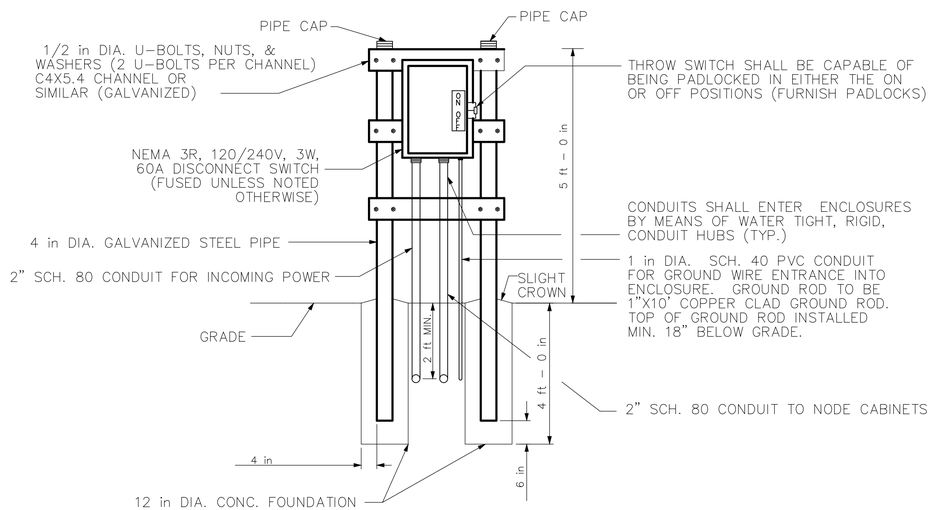
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 551 FOR NODE SITE PLAN.



2 WIRING DIAGRAM
SCALE: N.T.S.



3 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



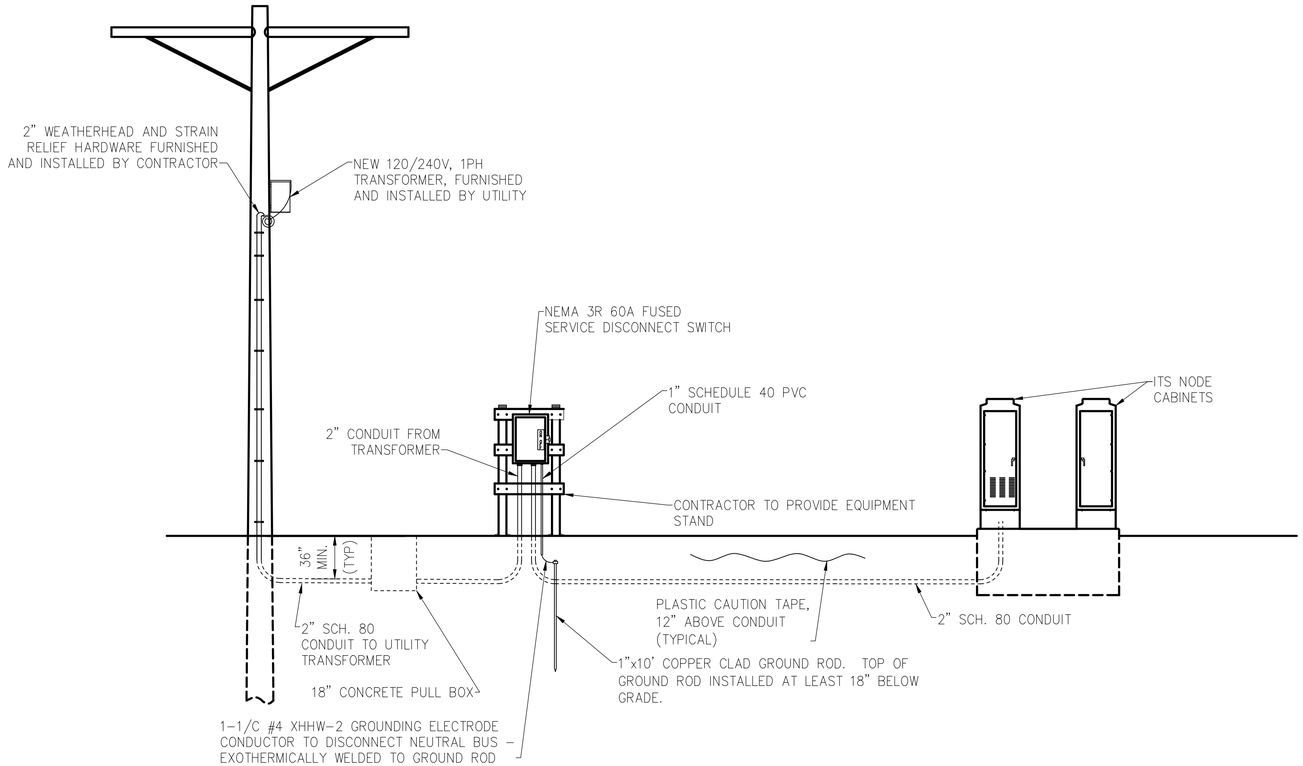
4 POWER SERVICE ELEVATION
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #270009.3 - I-270 AT TRABUE ROAD

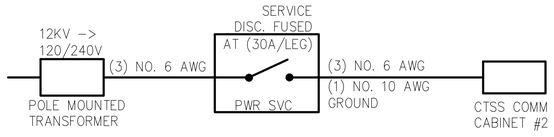
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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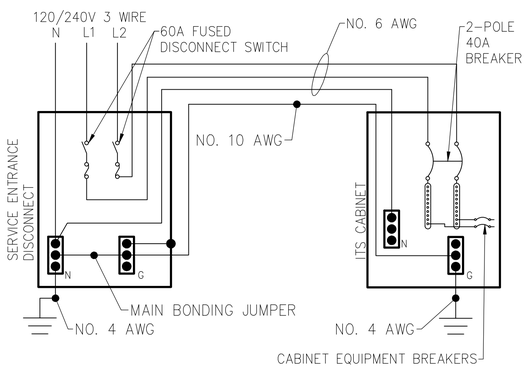


1 NODE #070103.1, FACING WEST - POWER SERVICE, TYPE D, AS PER PLAN
SCALE: N.T.S.

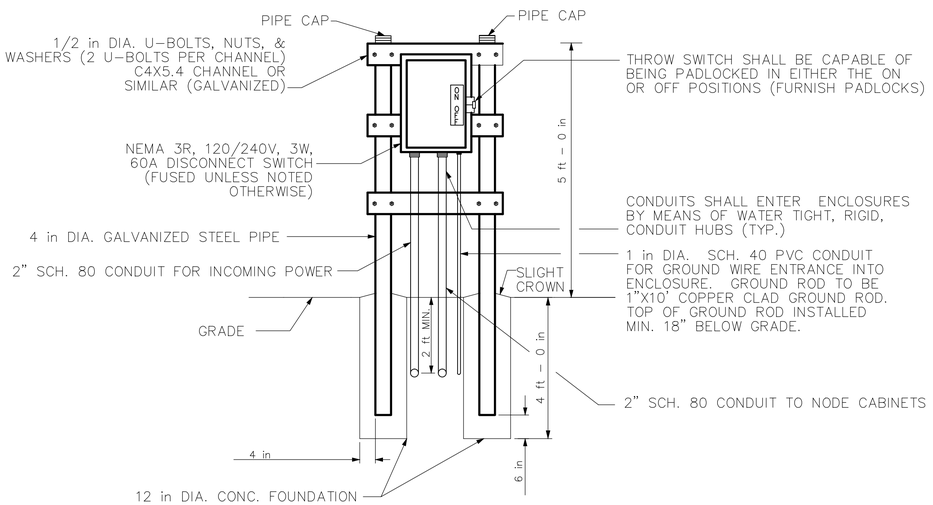
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 560 FOR NODE SITE PLAN.



2 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE ELEVATION
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

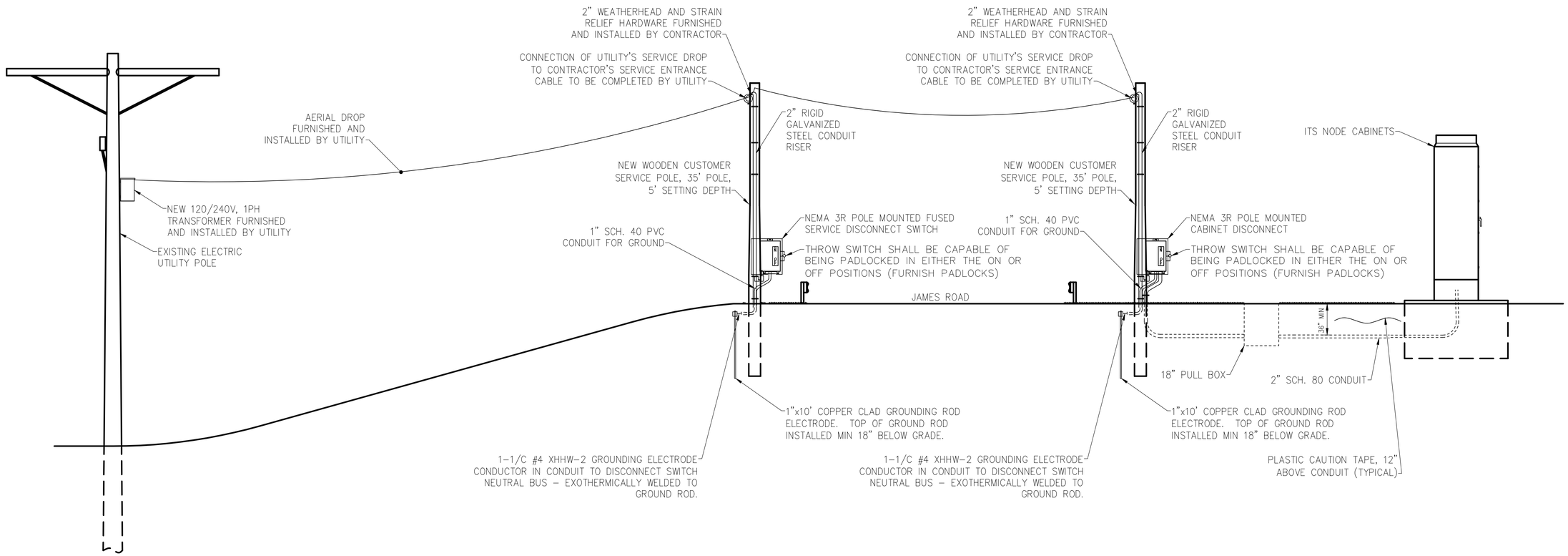
COMMUNICATIONS NODE POWER DETAILS
NODE #070103.1 - I-70 AT LIVINGSTON

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

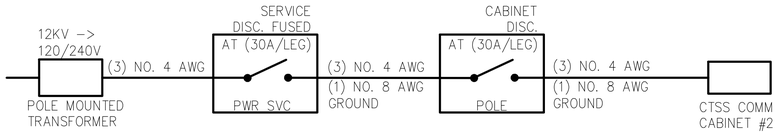
291
911

2953-E

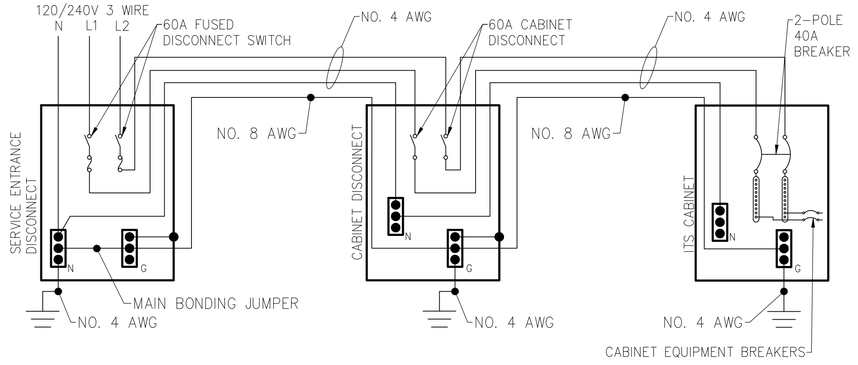
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1 NODE #070105.5, FACING NORTH - POWER SERVICE, TYPE A, AS PER PLAN
SCALE: N.T.S.



2 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.

NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS, THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 563 FOR NODE SITE PLAN.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

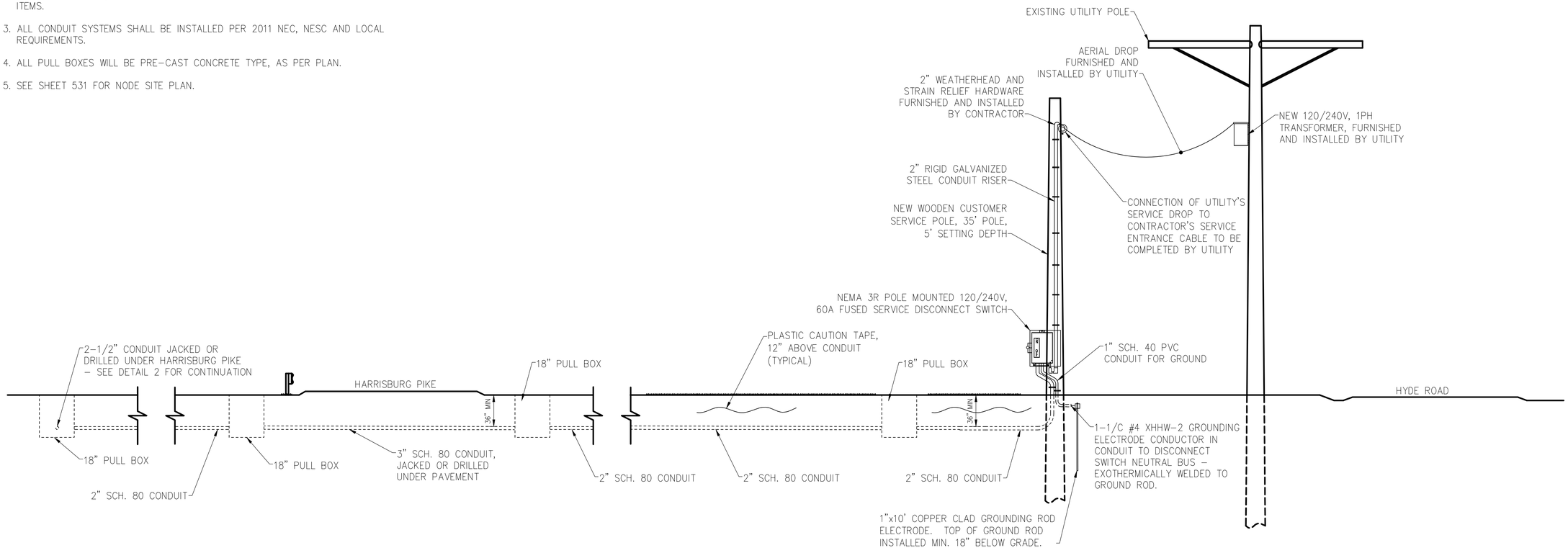
COMMUNICATIONS NODE POWER DETAILS
NODE #070105.5 - I-70 AT JAMES ROAD

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

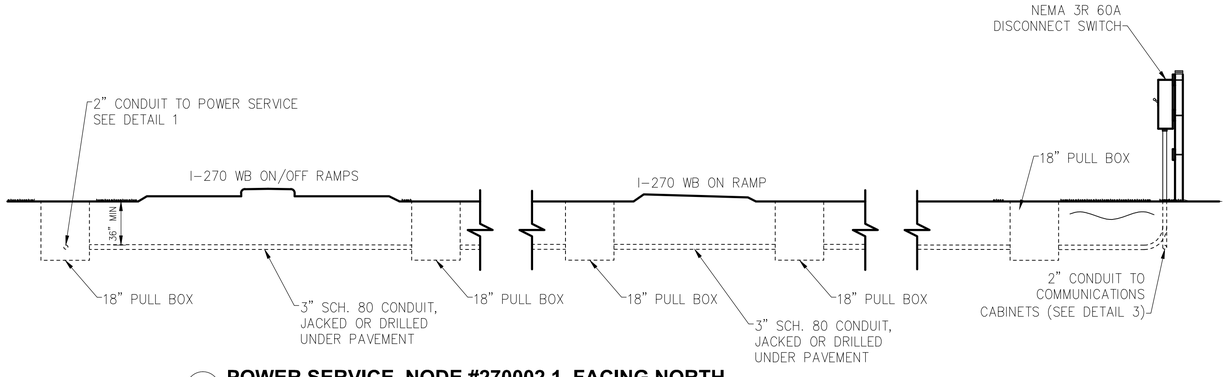
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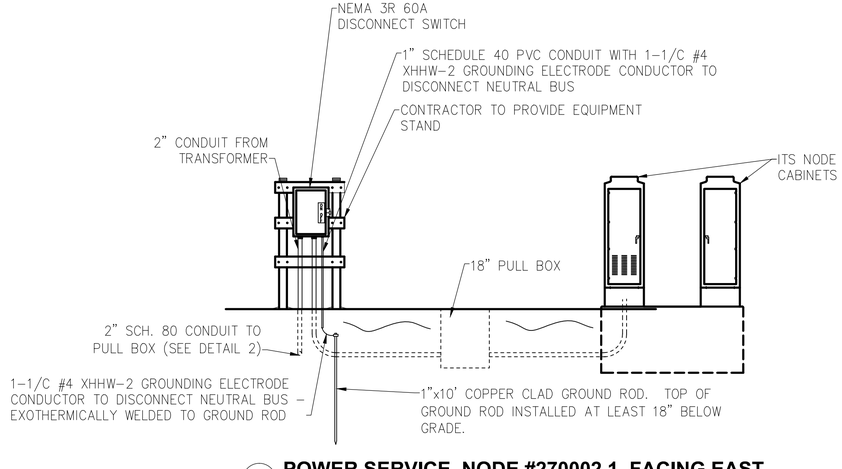
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 531 FOR NODE SITE PLAN.



1 NODE #270002.1, FACING WEST - POWER SERVICE, TYPE A, AS PER PLAN
SCALE: N.T.S.



2 POWER SERVICE, NODE #270002.1, FACING NORTH
SCALE: N.T.S.



3 POWER SERVICE, NODE #270002.1, FACING EAST
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

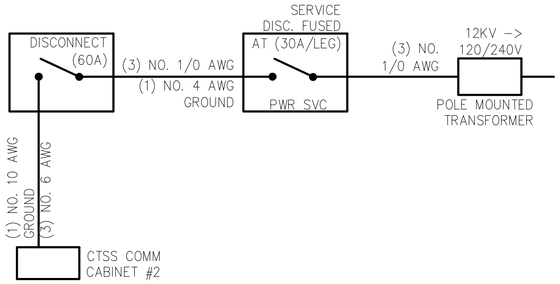
COMMUNICATIONS NODE POWER DETAILS
NODE #270002.1 – I-270 AT HARRISBURG PIKE

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

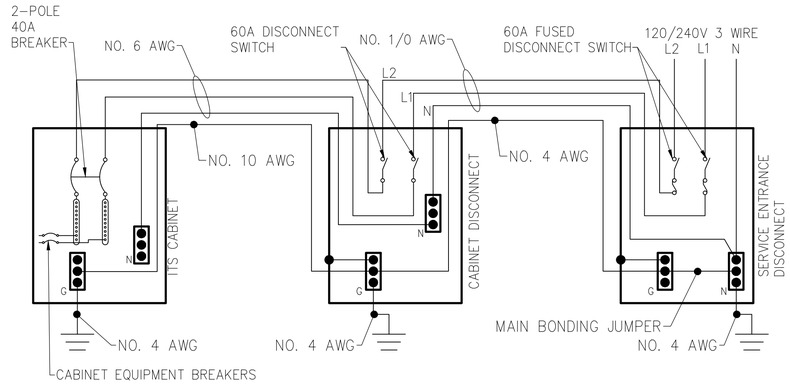
2953-E

293
911

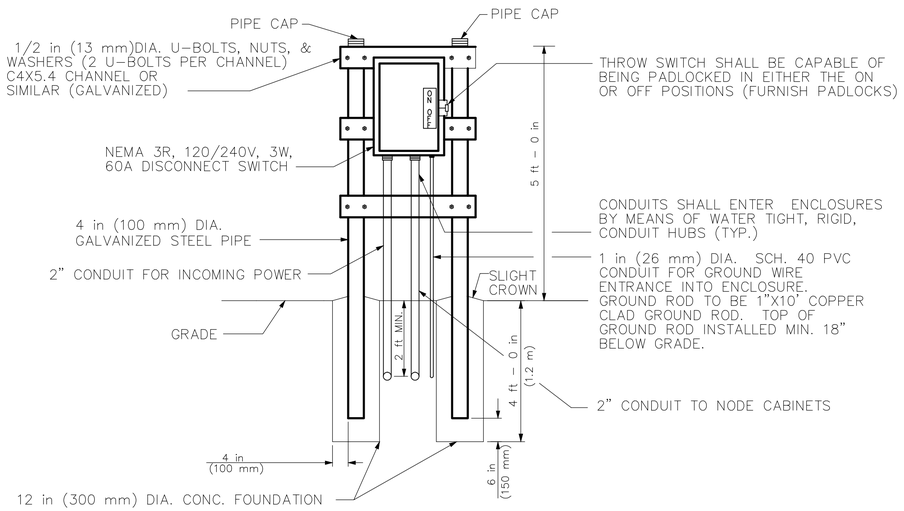
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1 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



2 WIRING DIAGRAM
SCALE: N.T.S.



3 DISCONNECT SWITCH ELEVATION
SCALE: N.T.S.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #270002.1 – I-270 AT HARRISBURG PIKE

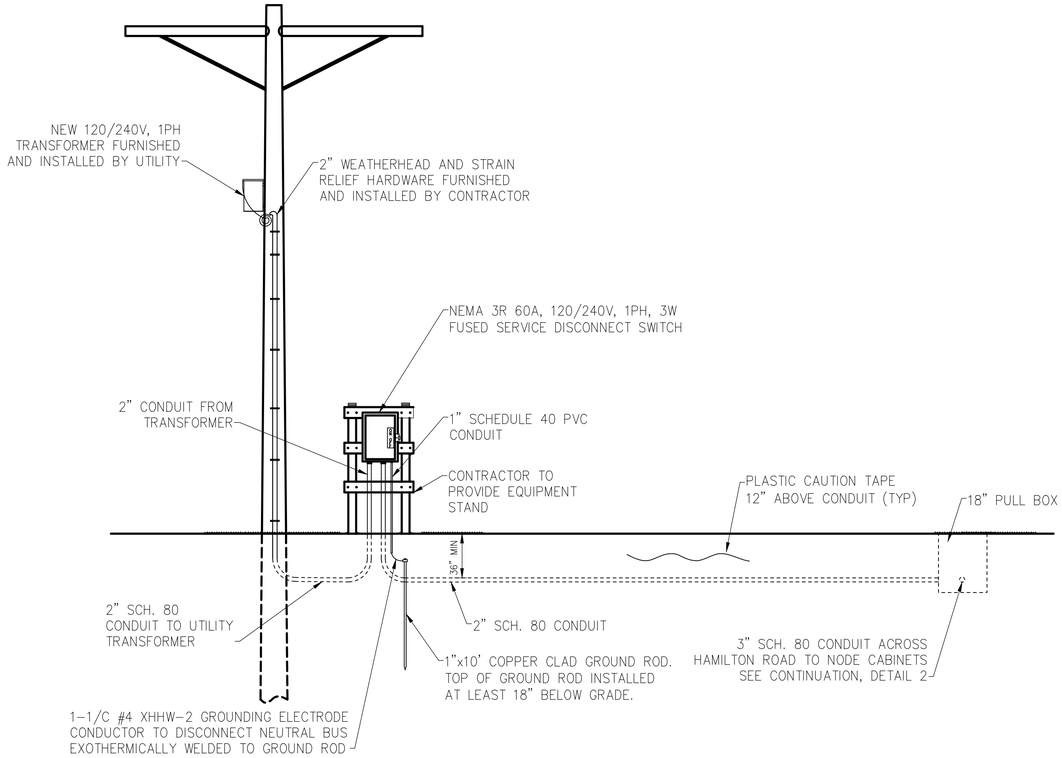
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

294
911

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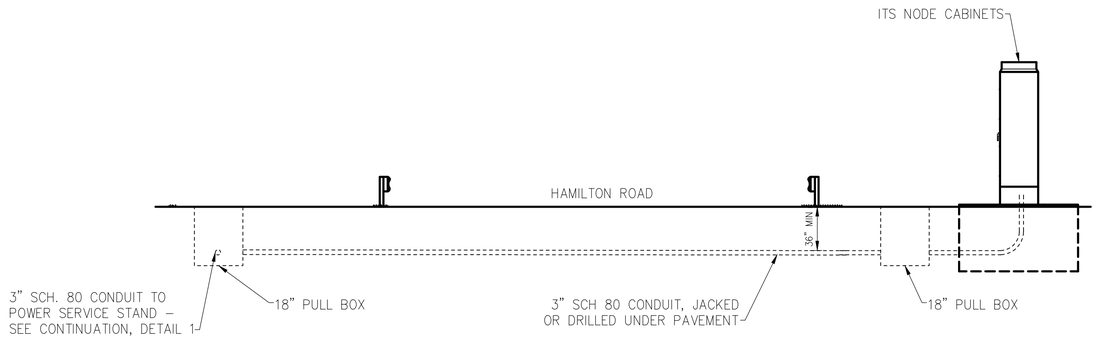
NOTES:

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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 569, FOR NODE SITE PLAN.



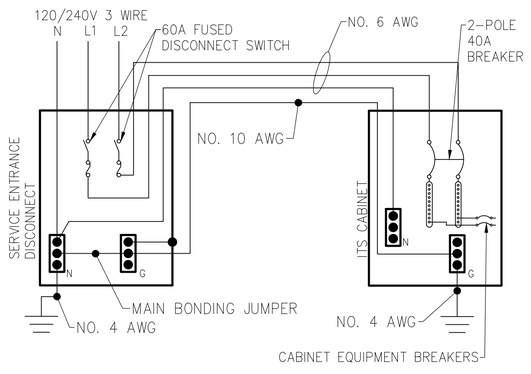
1 NODE #270045.5, FACING EAST - POWER SERVICE, TYPE D, AS PER PLAN

SCALE: N.T.S.



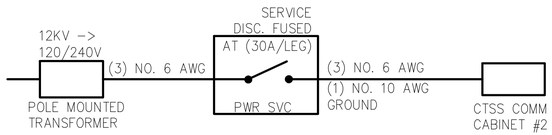
2 POWER SERVICE, NODE #270045.5, FACING SOUTH

SCALE: N.T.S.



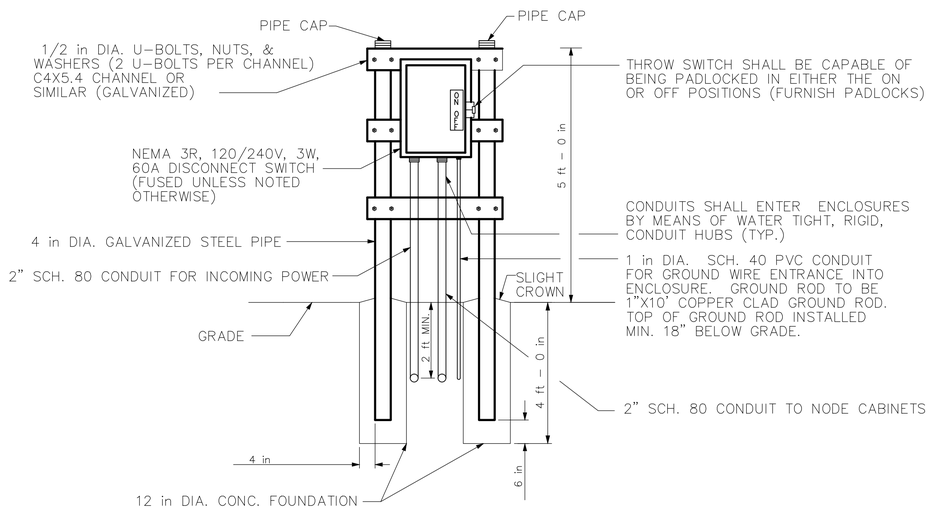
3 WIRING DIAGRAM

SCALE: N.T.S.



4 POWER SERVICE CIRCUIT DIAGRAM

SCALE: N.T.S.



3 POWER SERVICE ELEVATION

SCALE: N.T.S.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #270045.5 – I-270 AT HAMILTON ROAD

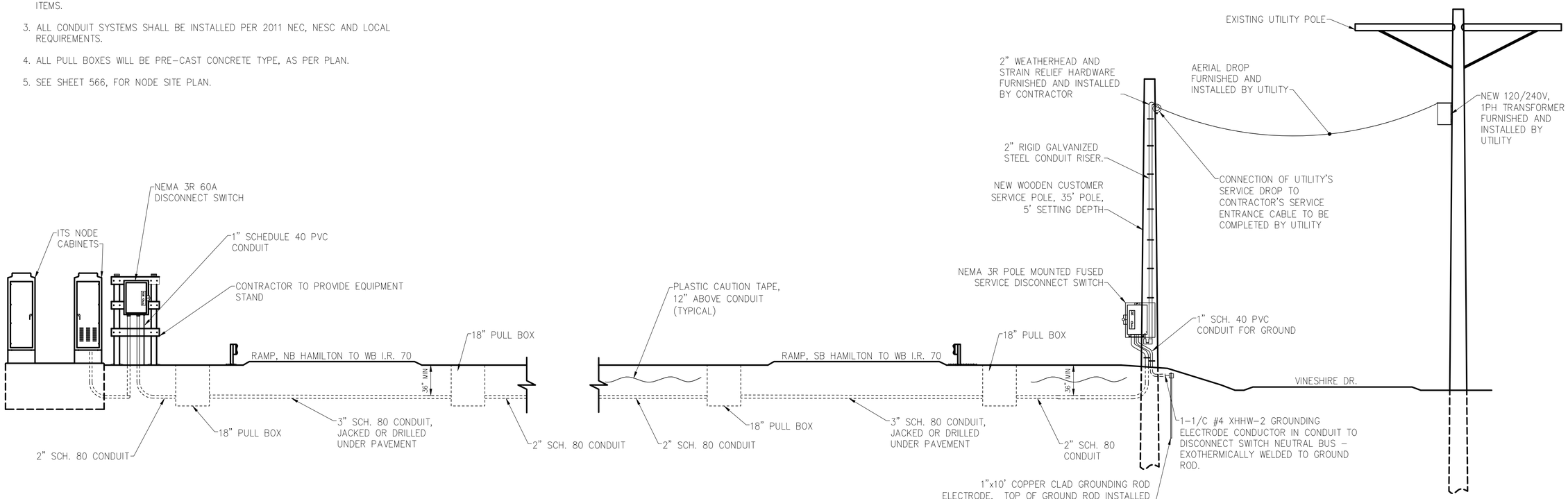
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

295
911

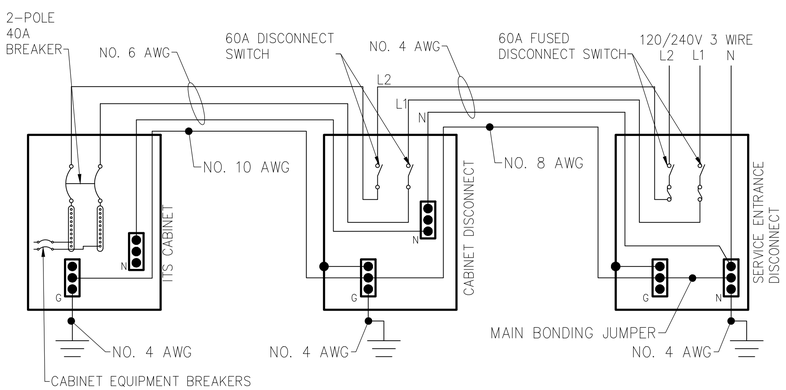
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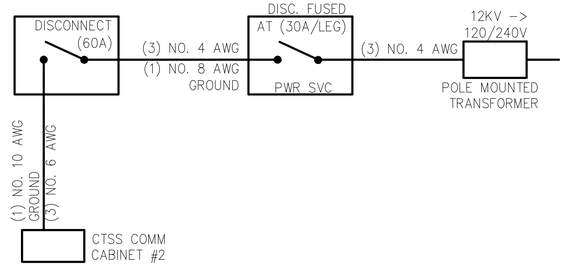
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
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3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 566, FOR NODE SITE PLAN.



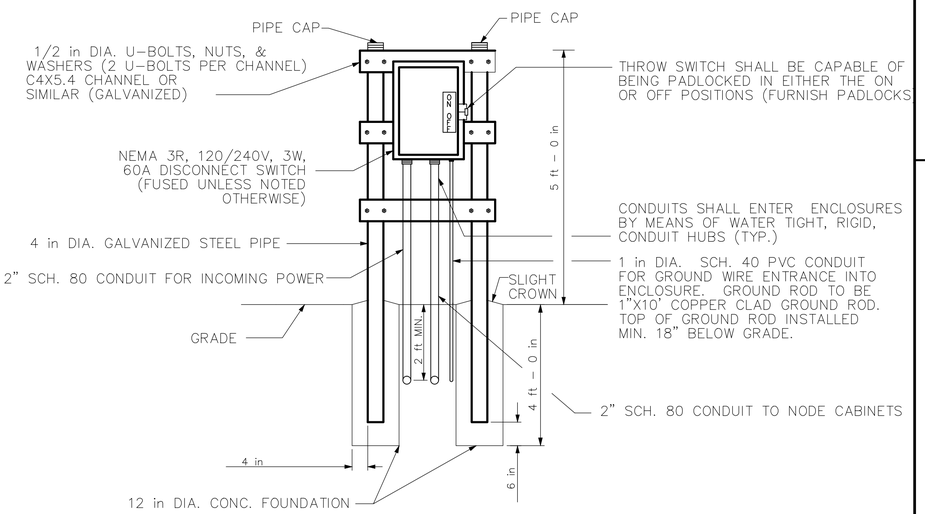
1 **NODE #070107.6, FACING WEST - POWER SERVICE, TYPE A, AS PER PLAN**
SCALE: N.T.S.



2 **WIRING DIAGRAM**
SCALE: N.T.S.



3 **POWER SERVICE CIRCUIT DIAGRAM**
SCALE: N.T.S.



4 **CABINET DISCONNECT ELEVATION**
SCALE: N.T.S.

CIP: 540007-100005
PID NUMBER: 14522

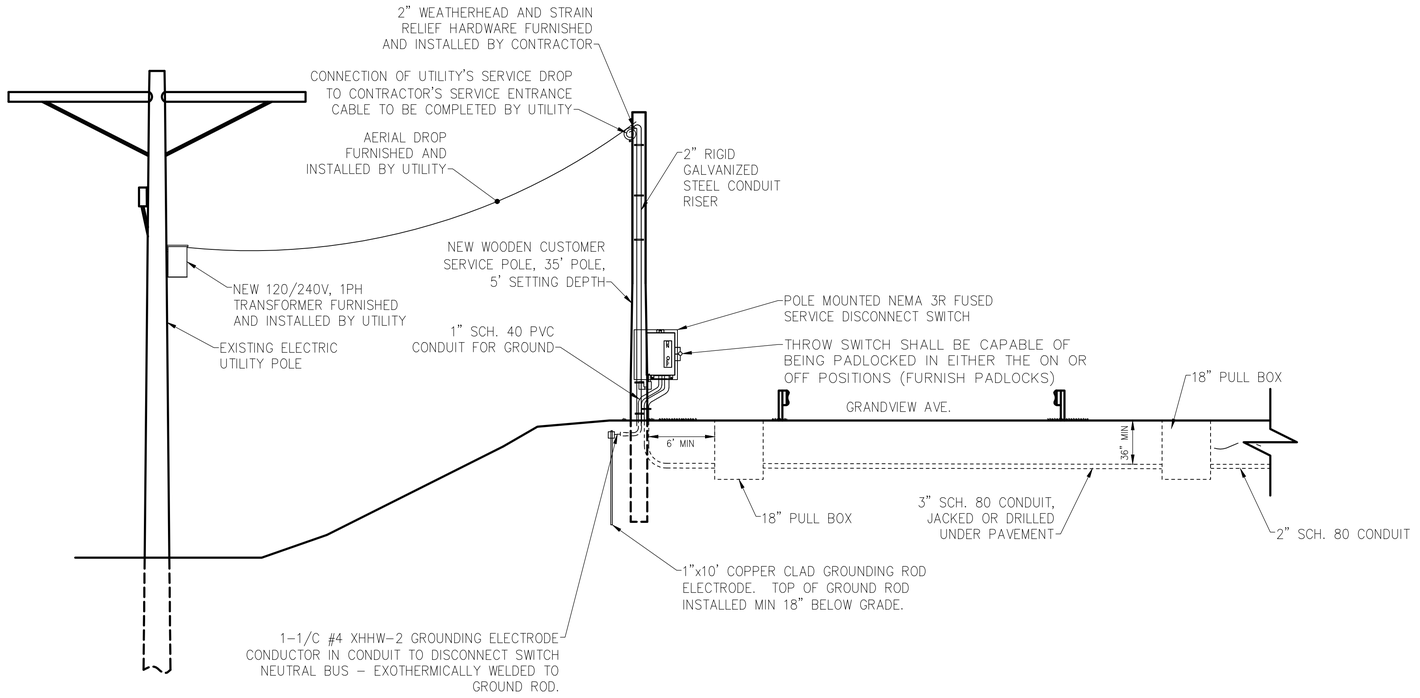
COMMUNICATIONS NODE POWER DETAILS
NODE #070107.6 - I-70 AT HAMILTON ROAD

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

296
911

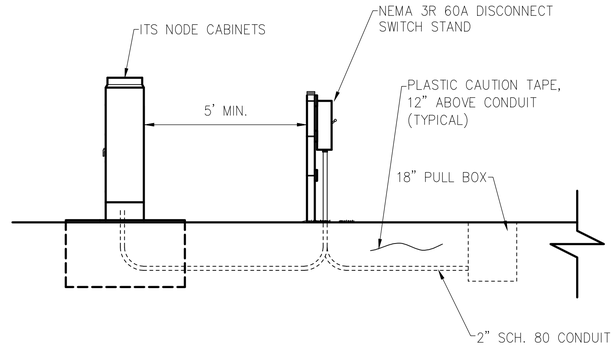
2953-E

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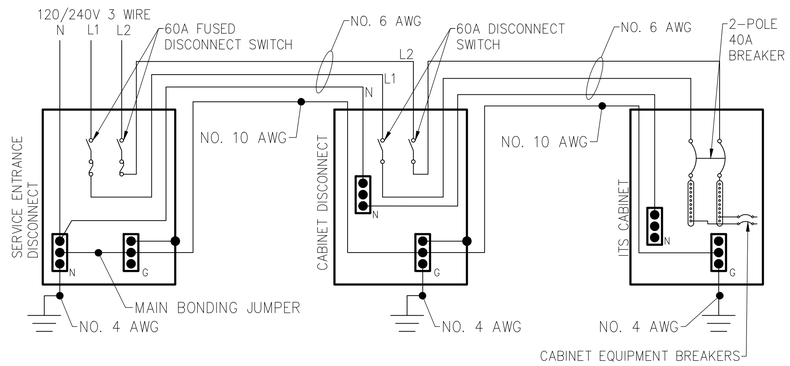


1 NODE #670001.4, FACING NORTH - POWER SERVICE, TYPE A, AS PER PLAN
SCALE: N.T.S.

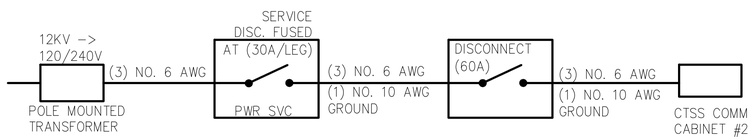
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4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 554, FOR NODE SITE PLAN.



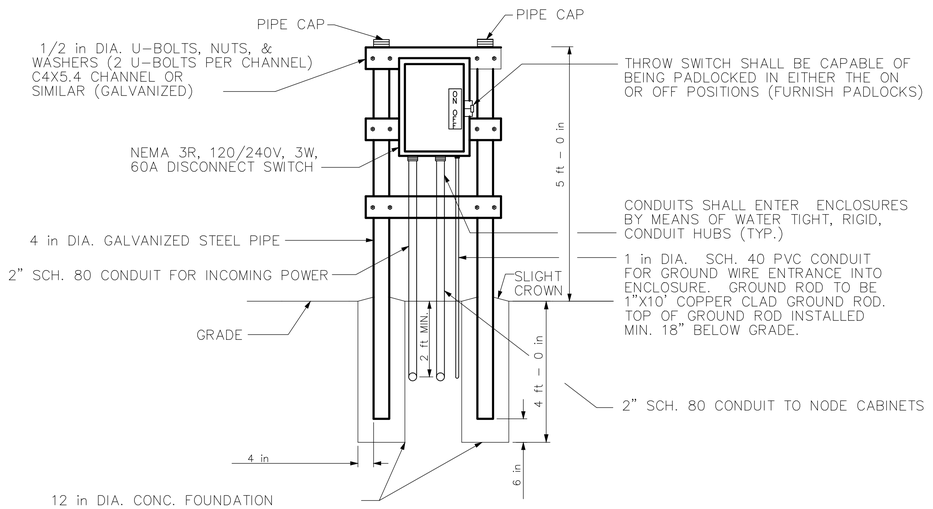
2 POWER SERVICE, NODE #670001.4, FACING WEST
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



5 DISCONNECT SWITCH ELEVATION
SCALE: N.T.S.

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

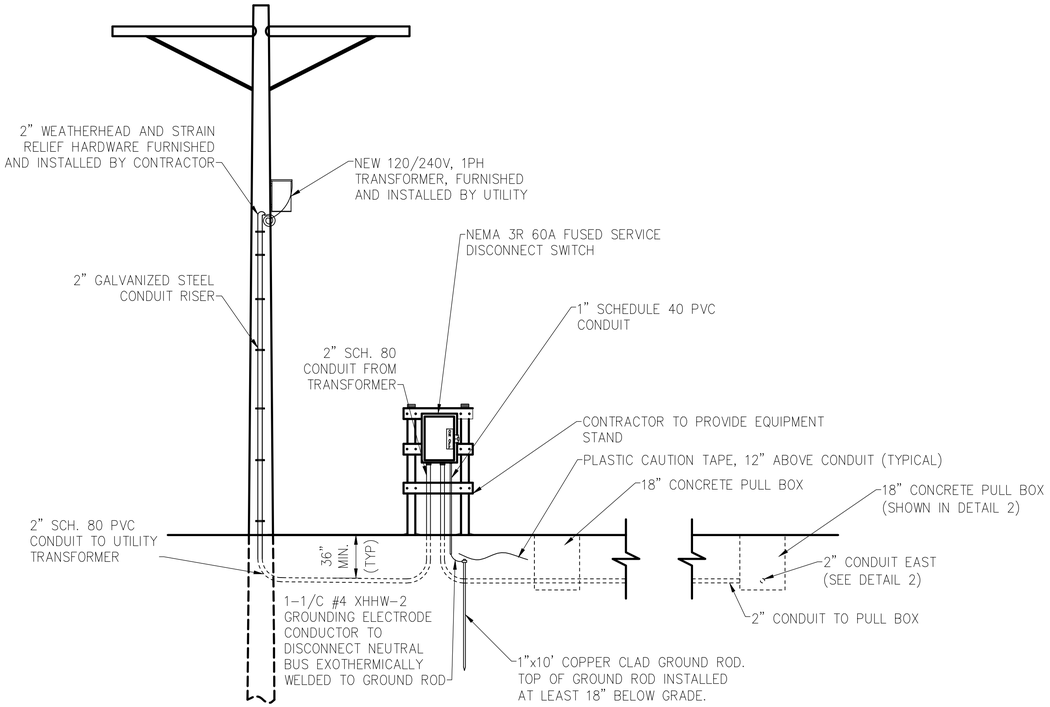
COMMUNICATIONS NODE POWER DETAILS
NODE #670001.4 - I-670 AT GRANDVIEW AVENUE

CIP: 540007-100005
PID NUMBER: 14522

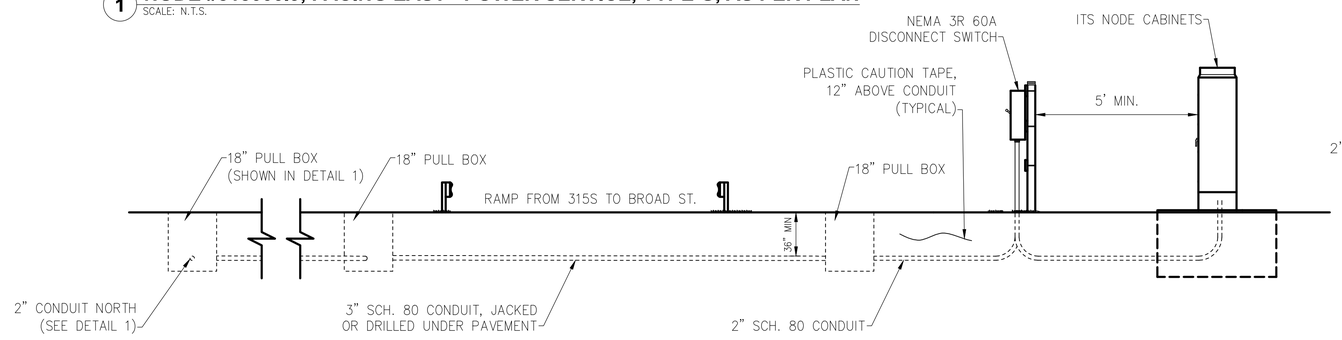
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NOTES:

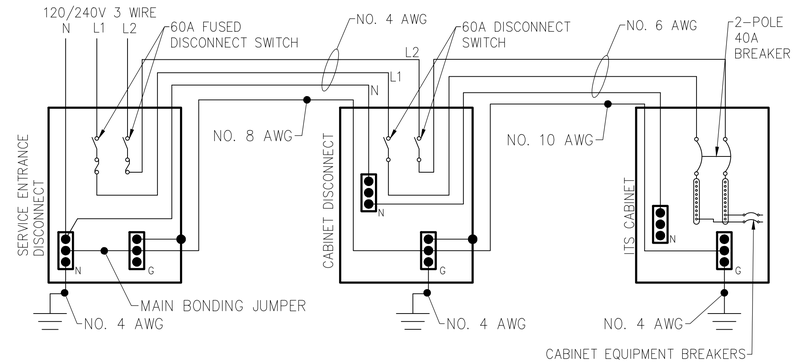
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. ALL WORK AND MATERIALS SHOWN ON POWER SERVICE DETAILS THAT ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, ARE INCIDENTAL TO POWER SERVICE PAY ITEMS.
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE, AS PER PLAN.
5. SEE SHEET 557, FOR NODE SITE PLAN.



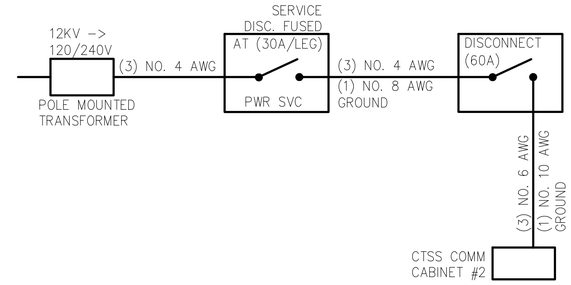
1 NODE #315000.9, FACING EAST - POWER SERVICE, TYPE G, AS PER PLAN
SCALE: N.T.S.



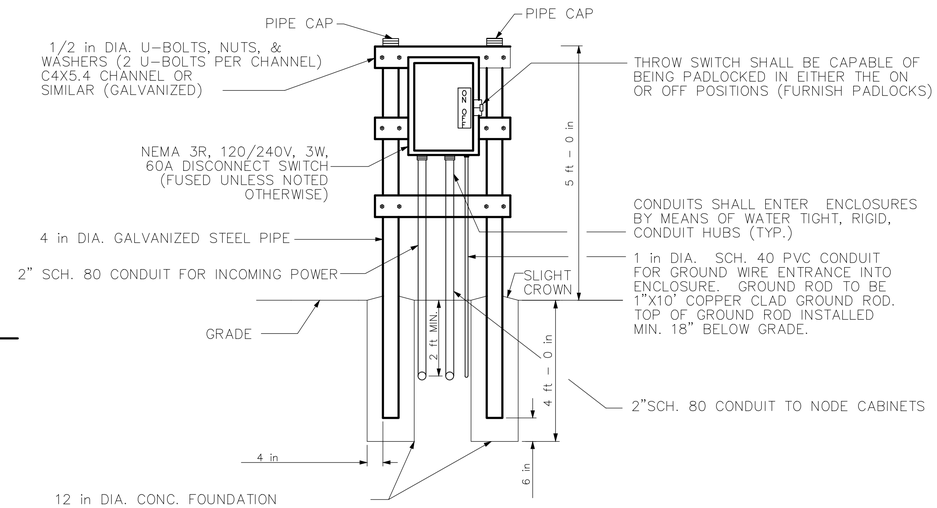
2 POWER SERVICE, NODE #315000.9, FACING NORTH
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.



4 POWER SERVICE CIRCUIT DIAGRAM
SCALE: N.T.S.



5 POWER SERVICE/DISCONNECT ELEVATION
SCALE: N.T.S.

2953-E

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE POWER DETAILS
NODE #315000.9 – SR-315 AT WEST BROAD STREET

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

298
911

J:\Jobs\50806\TECHPROD\Power\CTSS-POWER-BROAD-02.dwg - NODE#315000.9 layout - last saved by: blux 12/16/2014 06:00pm - printed 05/08/2017 09:20pm

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

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.

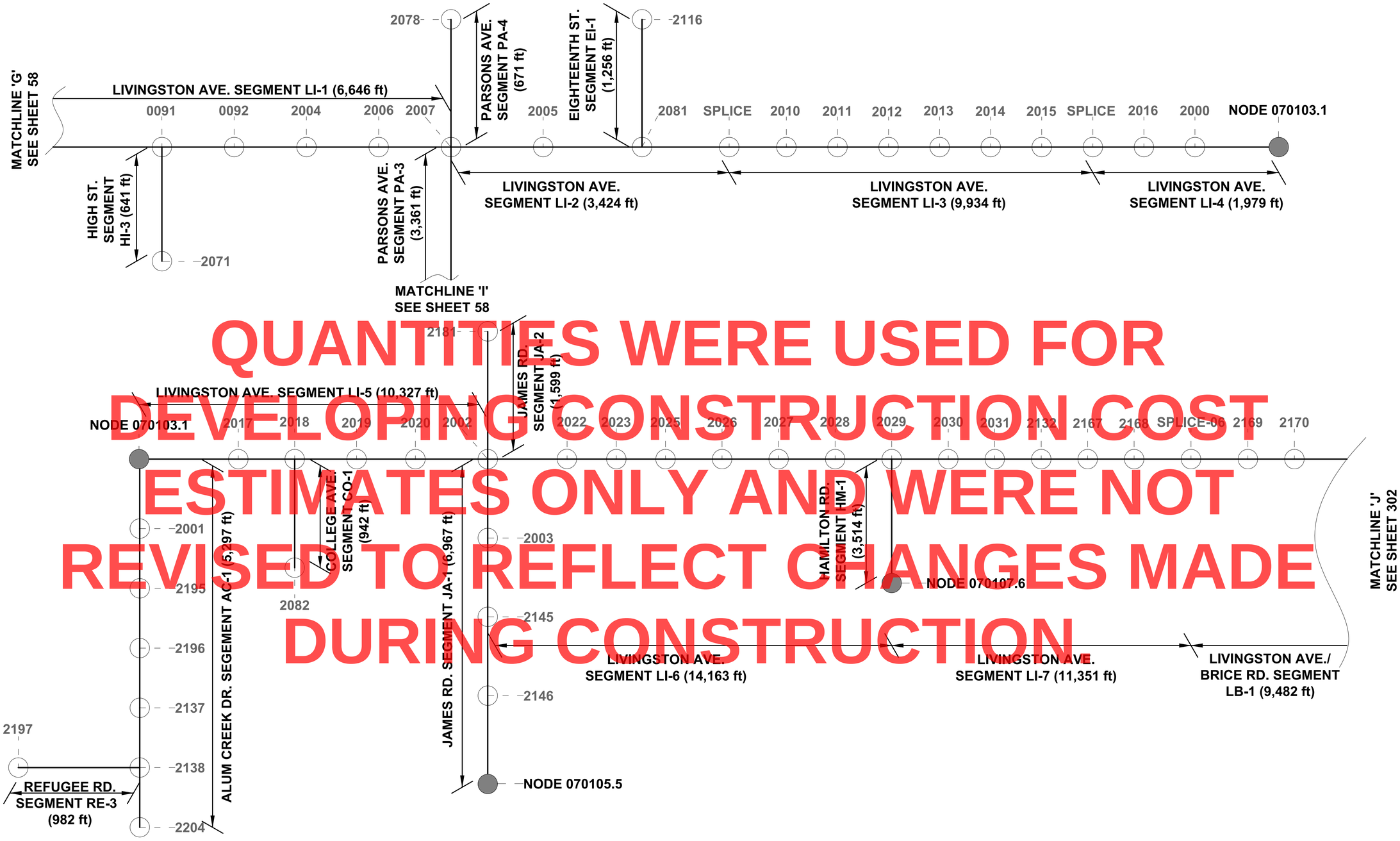
QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

FIBER SCHEMATICS TABLE
VOL 2 – 1 of 1

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

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

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

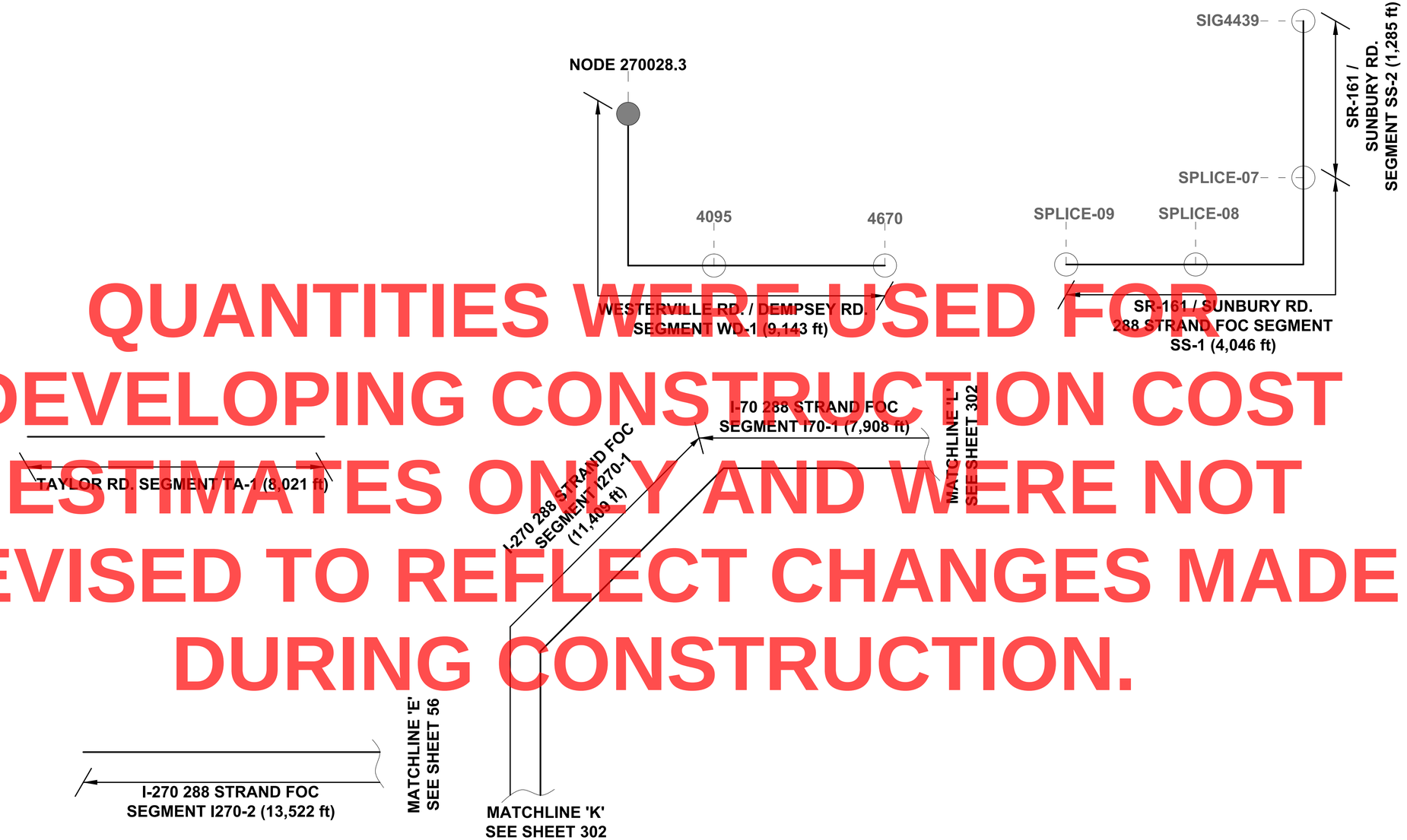
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CIP: 540007-100005
PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 2 - 1 OF 3

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.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

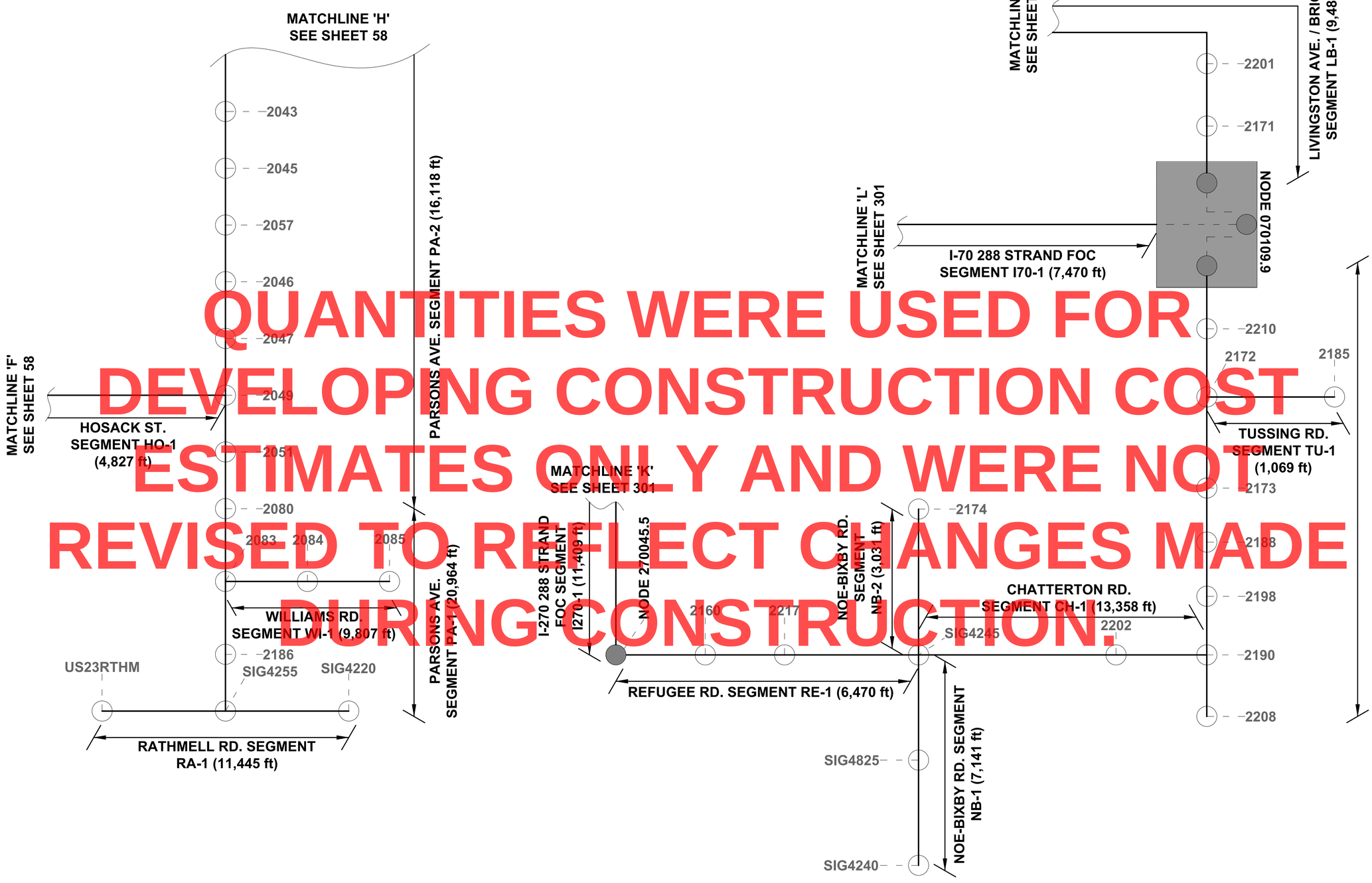
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CIP: 540007-100005
PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 2 - 2 OF 3

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.



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

2953-E

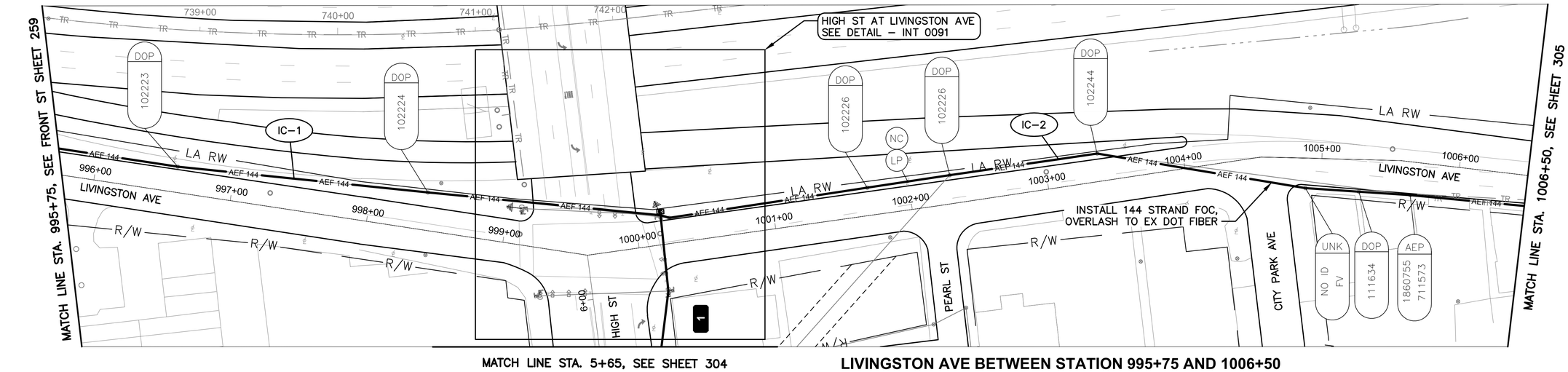
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PID NUMBER: 14522

FIBER OPTIC CABLE SCHEMATICS
VOLUME 2 - 3 OF 3

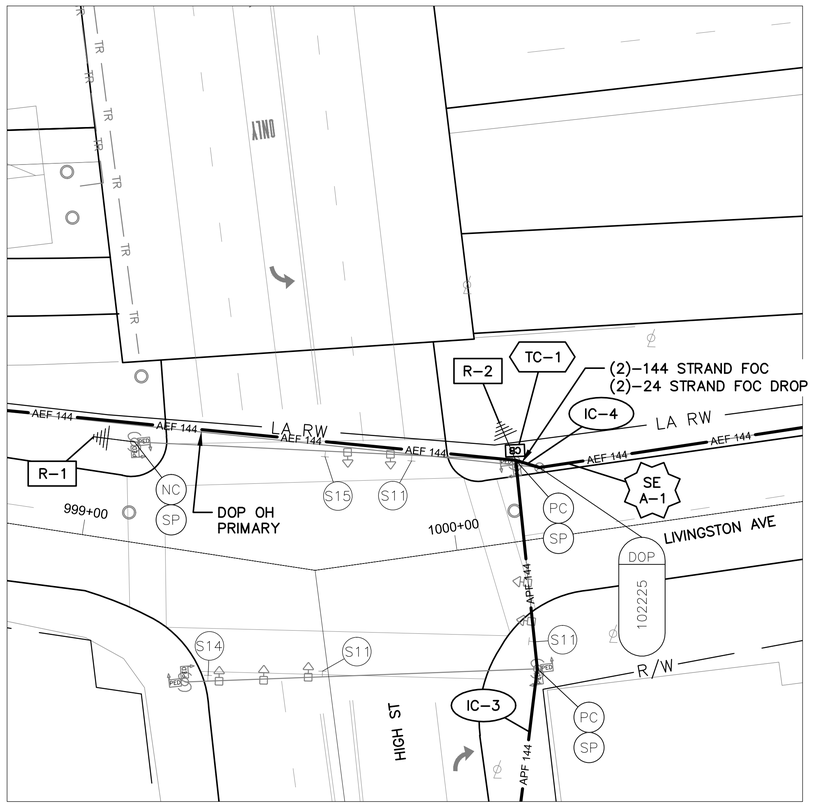
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

302
911

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LIVINGSTON AVE BETWEEN STATION 995+75 AND 1006+50



DETAIL - INT 0091

0 20 40

HORIZONTAL SCALE IN FEET

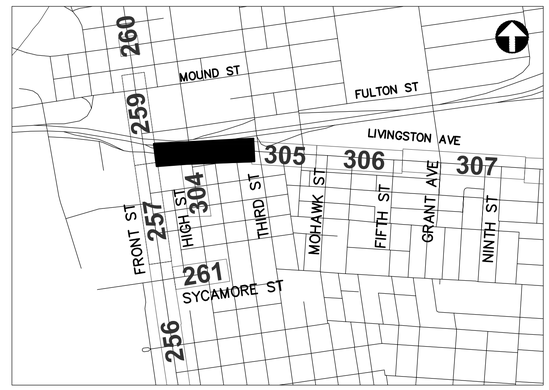
NOTES:

1. SEE SHEET 308 FOR QUANTITIES.
2. SEE SHEETS 608 & 738 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 0091, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

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CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET 0 40 80

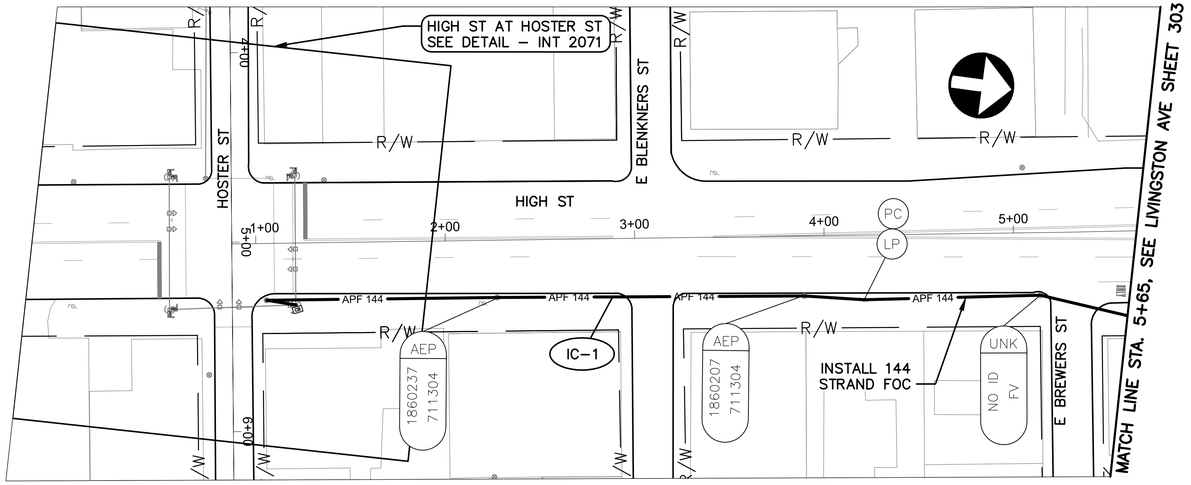
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 995+75 AND 1006+50, INT 0091

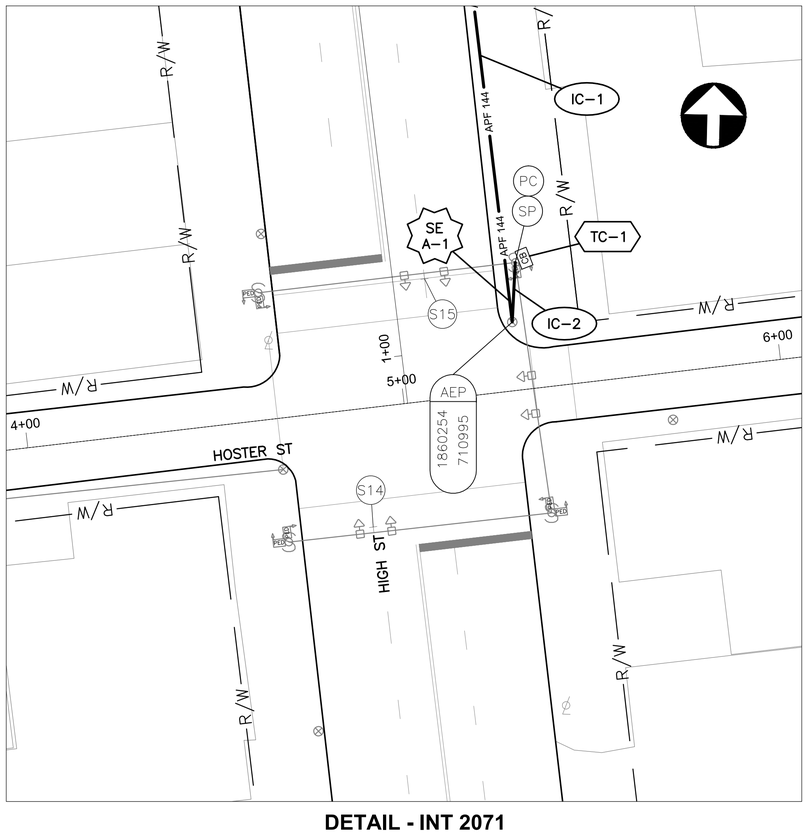
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

303
911

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HIGH ST BETWEEN STATION 0+00 AND 5+65



DETAIL - INT 2071

0 20 40

HORIZONTAL
SCALE IN FEET

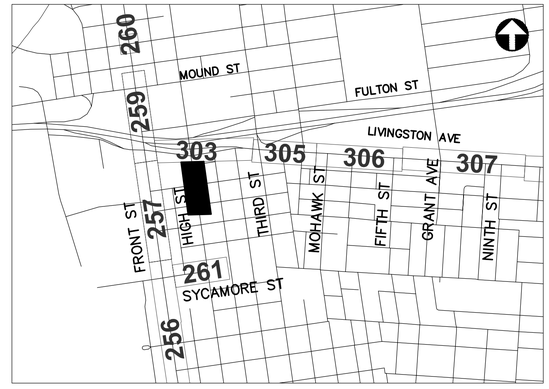
NOTES:

1. SEE SHEET 308 FOR QUANTITIES.
2. SEE SHEETS 608 & 737 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

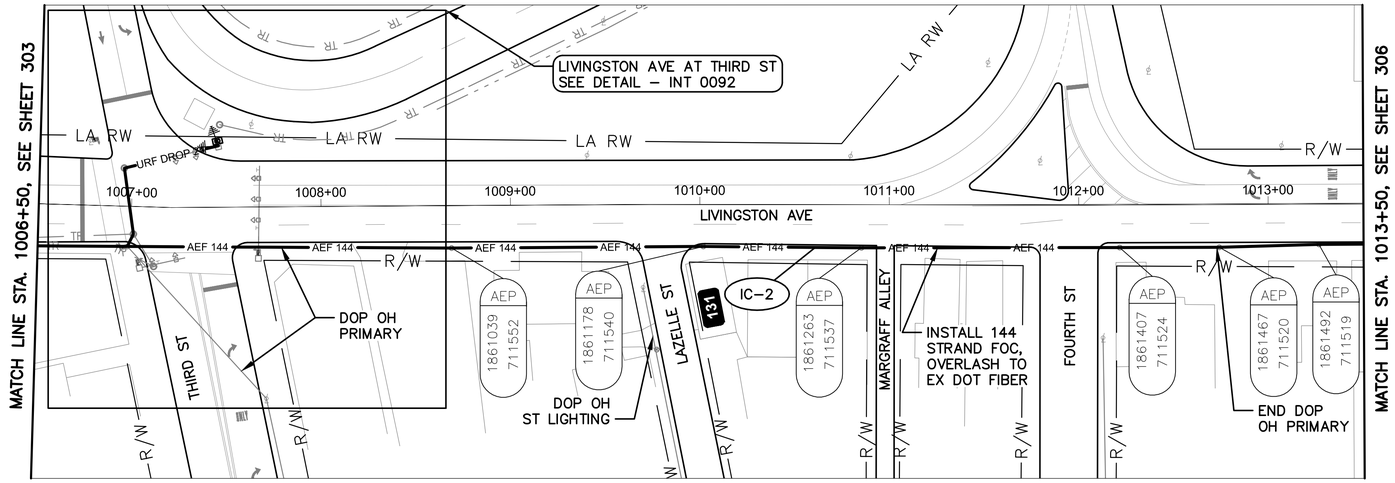
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PID NUMBER: 14522

INTERCONNECT PLAN
HIGH ST BETWEEN STA. 0+00 AND 5+65, INT 2071

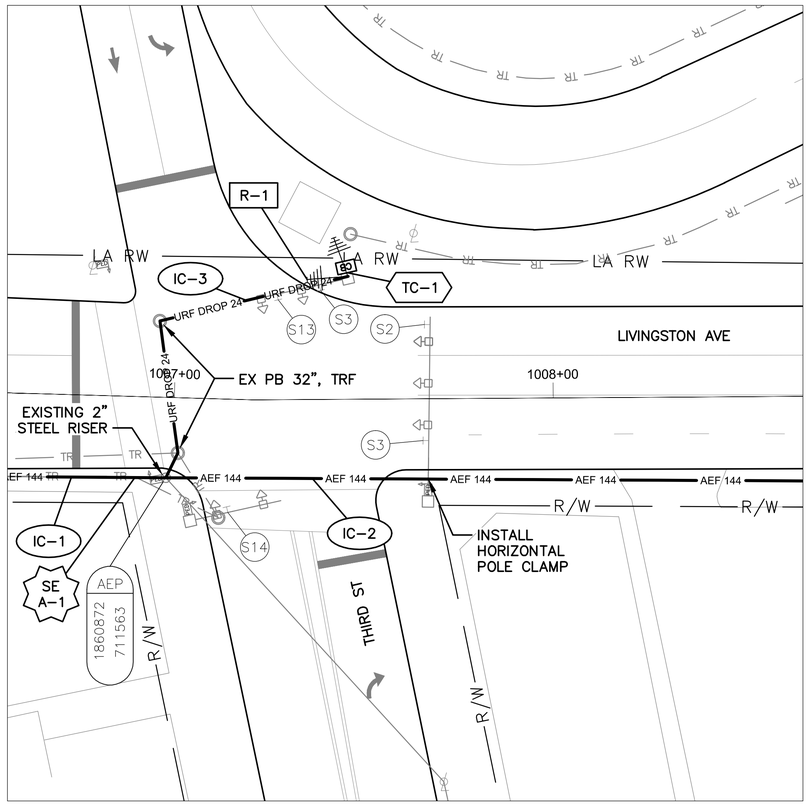
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

304
911

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LIVINGSTON AVE BETWEEN STATION 1006+50 AND 1013+50



DETAIL - INT 0092

0 20 40
HORIZONTAL SCALE IN FEET

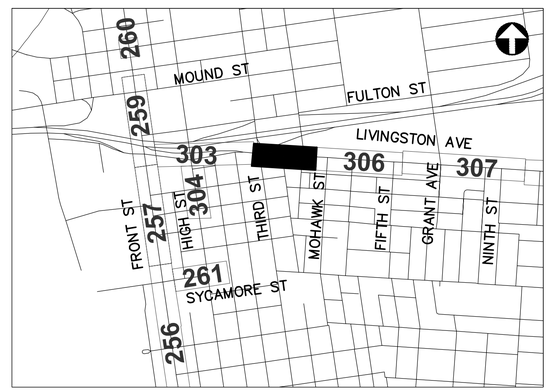
NOTES:

1. SEE SHEET 308 FOR QUANTITIES.
2. SEE SHEETS 608 & 739 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

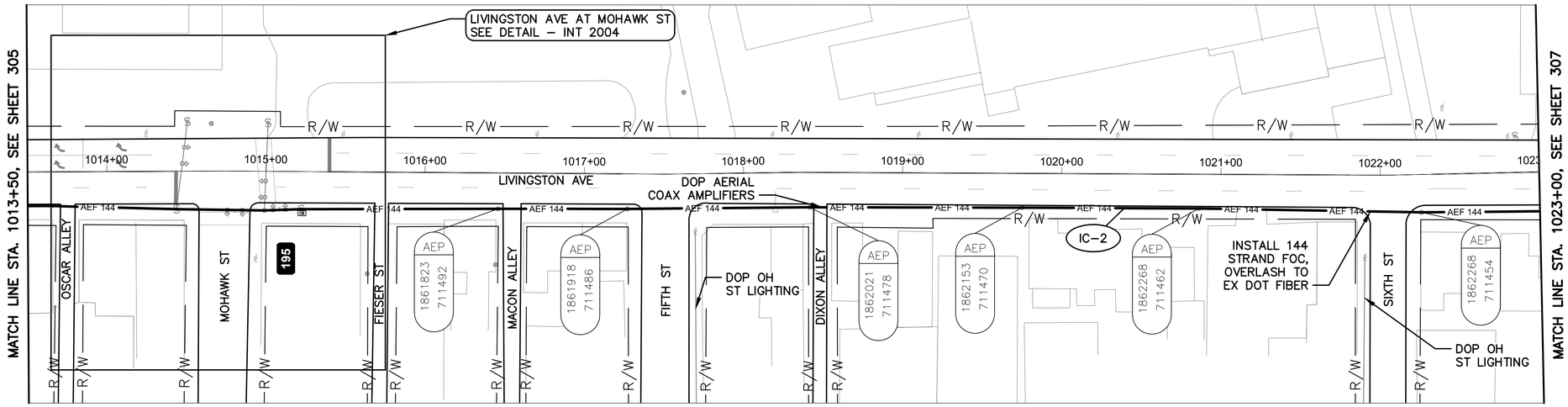
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1006+50 AND 1013+50, INT 0092

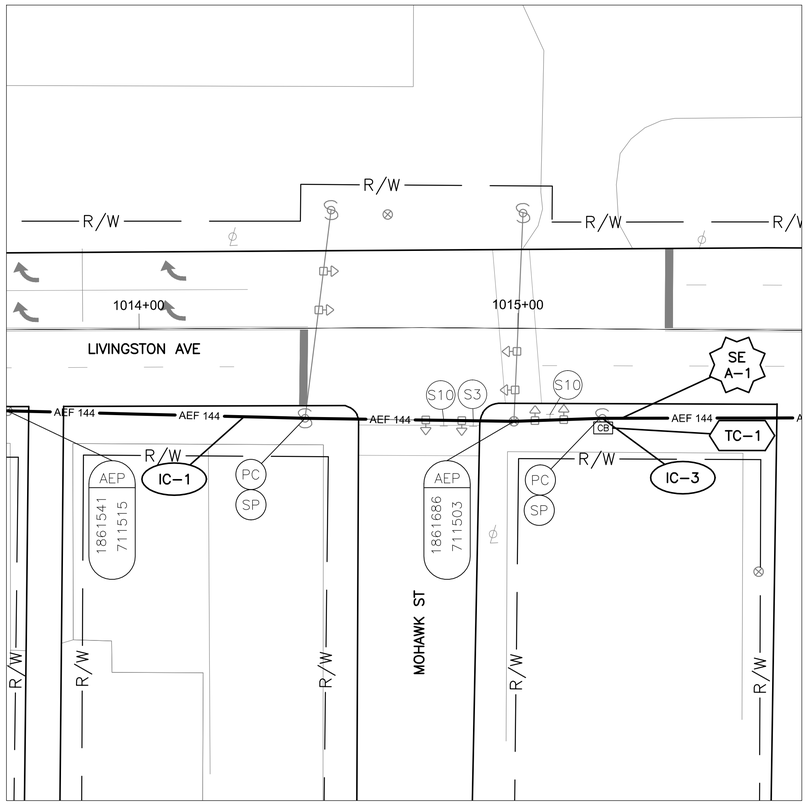
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

305
911

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LIVINGSTON AVE BETWEEN STATION 1013+50 AND 1023+00



DETAIL - INT 2004

0 20 40
HORIZONTAL
SCALE IN FEET

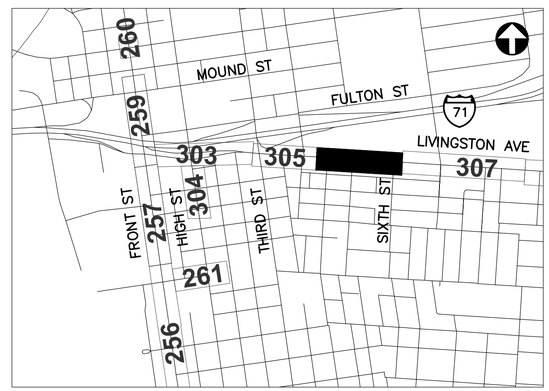
NOTES:

1. SEE SHEET 308 FOR QUANTITIES.
2. SEE SHEETS 608 & 740 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E



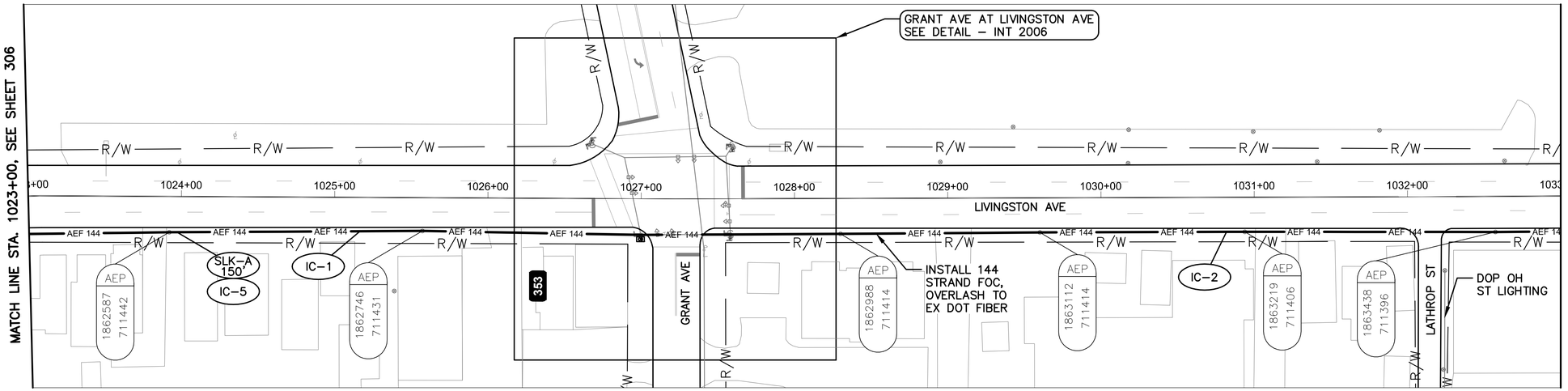
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1013+50 AND 1023+00, INT 2004

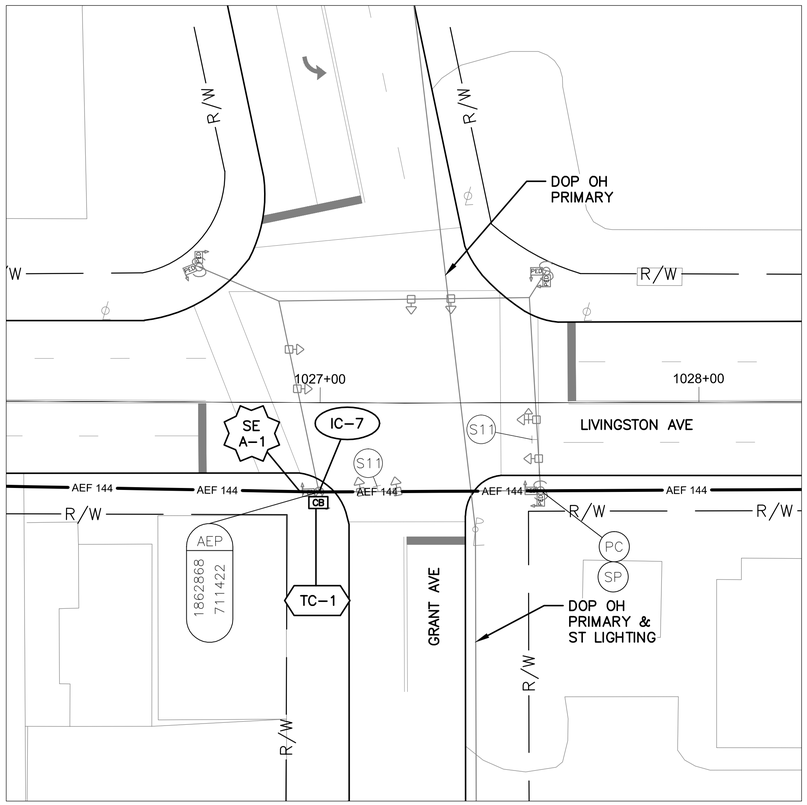
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

306
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_A_INTERCONNECT.dwg – LIVINGSTON 2 layout ~ last saved by: sdlowry 05/08/2017 04:00pm ~ printed 05/08/2017 09:25pm

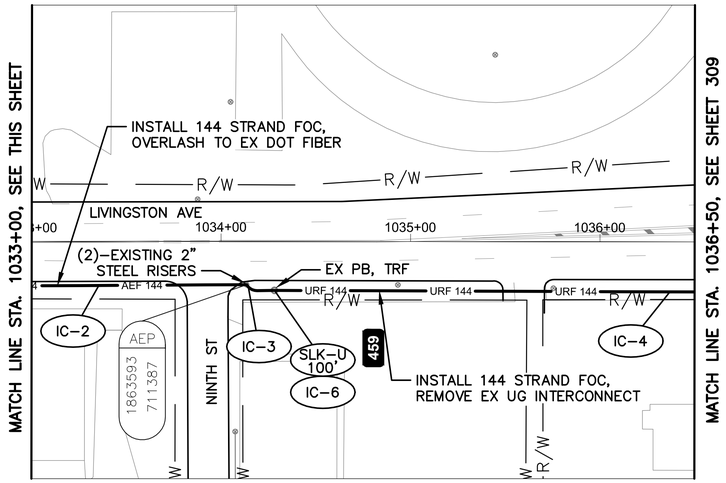


LIVINGSTON AVE BETWEEN STATION 1023+00 AND 1033+00



DETAIL - INT 2006

0 20 40
HORIZONTAL
SCALE IN FEET



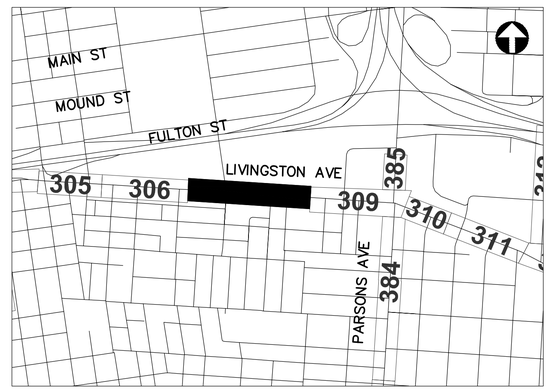
LIVINGSTON AVE BETWEEN STATION 1033+00 AND 1036+50

NOTES:

1. SEE SHEET 308 FOR QUANTITIES.
2. SEE SHEETS 608 & 741 FOR COMMUNICATION DETAILS.
3. 2 STEEL RISERS AT STA 1034+13, ONE HAS EXISTING COAX, ONE IS EMPTY. USE THE EMPTY ONE.

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1023+00 AND 1036+50, INT 2006

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

307
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)	202 REMOVAL, MISC.: REMOVE EXISTING OVERHEAD EQUIPMENT (EACH)	632 CONDUIT RISER, 3", 725.04, AS PER PLAN (EACH)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING 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)					
LIVINGSTON AVE. BETWEEN STA. 995+75 AND 1006+50, INT 0091																									
303	IC-1	LIVINGSTON AVE	995+75, 19' LT	1000+24, 19' LT				453	453																
303	R-1	LIVINGSTON AVE	999+09, 26' LT			1																			
303	IC-3	LIVINGSTON AVE	1000+06, 73' RT	1000+24, 19' LT				103								103									
303	TC-1	LIVINGSTON AVE	1000+18, 21' LT														3								
303	R-2	LIVINGSTON AVE	1000+18, 21' LT			1																			
303	IC-4	LIVINGSTON AVE	1000+18, 21' LT	1000+24, 19' LT									2												
303	SE A-1	LIVINGSTON AVE	1000+24, 19' LT					225				1													
303	IC-2	LIVINGSTON AVE	1000+24, 19' LT	1006+50, 22' RT				635	635																
HIGH ST. BETWEEN STA. 0+00 AND 5+65, INT 2071																									
304	SE A-1	HIGH ST	1+05, 30' RT					75			1														
304	IC-1	HIGH ST	1+05, 30' RT	5+65, 41' RT				463								463									
304	IC-2	HIGH ST	1+05, 30' RT	1+21, 32' RT												15									
304	TC-1	HIGH ST	1+21, 32' RT														1	1	1						
LIVINGSTON AVE. BETWEEN STA. 1006+50 AND 1013+50, INT 0092																									
305	IC-1	LIVINGSTON AVE	1006+50, 22' RT	1006+98, 21' RT				49	49																
305	IC-3	LIVINGSTON AVE	1006+98, 21' RT	1007+46, 32' LT	93					93				1											
305	SE A-1	LIVINGSTON AVE	1006+98, 21' RT				1	150			1														
305	IC-2	LIVINGSTON AVE	1006+98, 21' RT	1013+50, 21' RT				662	662																
305	TC-1	LIVINGSTON AVE	1007+46, 32' LT														2								
305	R-1	LIVINGSTON AVE	1007+46, 32' LT			1																			
LIVINGSTON AVE. BETWEEN STA. 1013+50 AND 1023+00, INT 2004																									
306	IC-1	LIVINGSTON AVE	1013+50, 21' RT	1014+99, 25' RT				151	151																
306	IC-2	LIVINGSTON AVE	1014+99, 25' RT	1023+00, 25' RT				814	814																
306	SE A-1	LIVINGSTON AVE	1015+22, 24' RT					150			1														
306	IC-3	LIVINGSTON AVE	1015+22, 24' RT	1015+22, 24' RT										1											
306	TC-1	LIVINGSTON AVE	1015+22, 24' RT														2	1	1						
LIVINGSTON AVE. BETWEEN STA. 1023+00 AND 1036+50, INT 2006																									
307	IC-1	LIVINGSTON AVE	1023+00, 23' RT	1026+99, 24' RT				405	405																
307	IC-5	LIVINGSTON AVE	1023+97, 23' RT					150																	
307	SE A-1	LIVINGSTON AVE	1026+99, 24' RT					150			1														
307	IC-7	LIVINGSTON AVE	1026+99, 24' RT	1026+99, 24' RT									1												
307	TC-1	LIVINGSTON AVE	1026+99, 24' RT														2	1		1					
307	IC-2	LIVINGSTON AVE	1026+99, 24' RT	1034+13, 23' RT				725	725																
307	IC-3	LIVINGSTON AVE	1034+13, 23' RT					35																	
307	IC-4	LIVINGSTON AVE	1034+13, 23' RT	1036+50, 26' RT	238			238		238															
307	IC-6	LIVINGSTON AVE	1034+28, 26' RT					100																	
SHEET TOTAL					331	3	1	5733	3894	331	4	1	5	1	581	10	3	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.

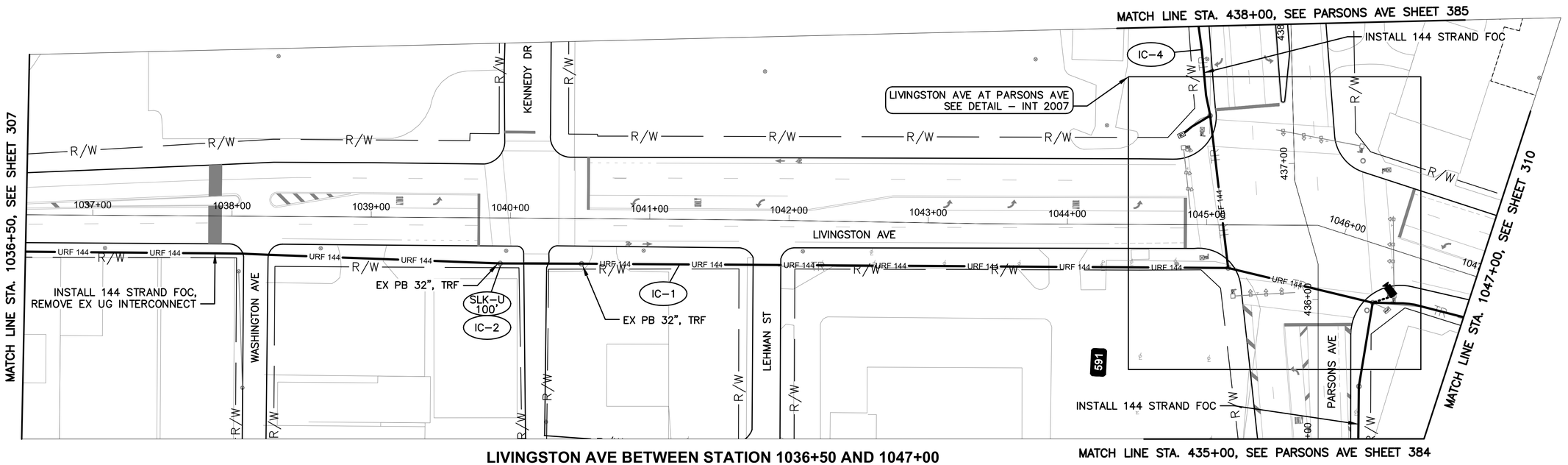
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 995+75 & 1036+50
INTS 0091, 2071, 0092, 2004, 2006

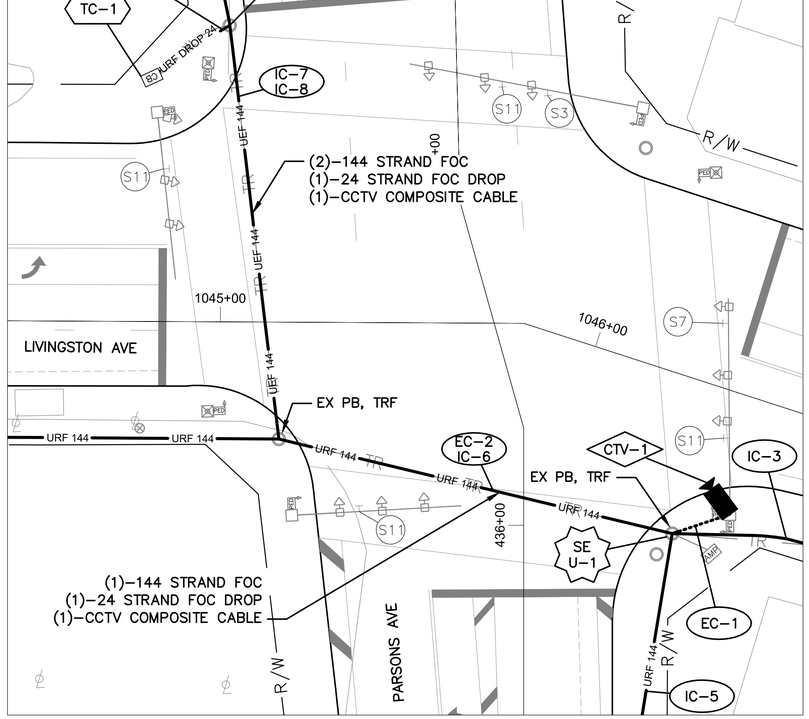
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

2953-E

J:\Jobs\50806\TECHPROD\Sheets\CTSS_Phc_LIVINGSTON_A_INTERCONNECT_QUANTITIES.dwg – LIVINGSTON_1A layout ~ last saved by: gburch 10/17/2014 08:19am ~ printed 05/08/2017 09:26pm



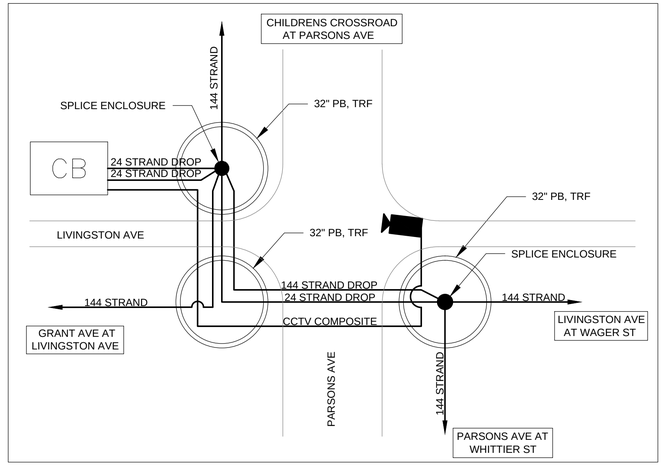
LIVINGSTON AVE BETWEEN STATION 1036+50 AND 1047+00



DETAIL - INT 2007

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC

NOT TO SCALE

NOTES:

1. SEE SHEET 316 FOR QUANTITIES.
2. SEE SHEETS 608 & 742 FOR COMMUNICATION DETAILS.
3. FOR BOTH SPLICE ENCLOSURES AT INT 2007, 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN

NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

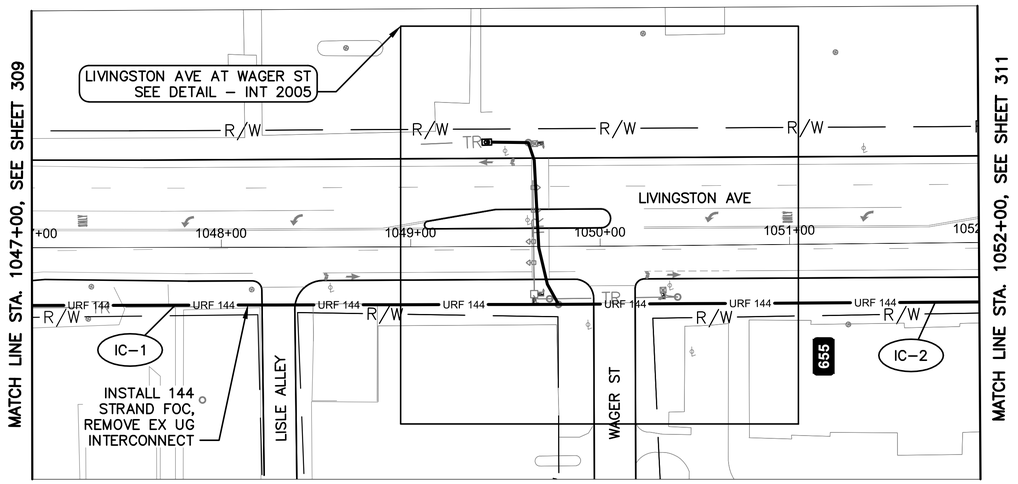
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1036+50 AND 1047+00, INT 2007

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

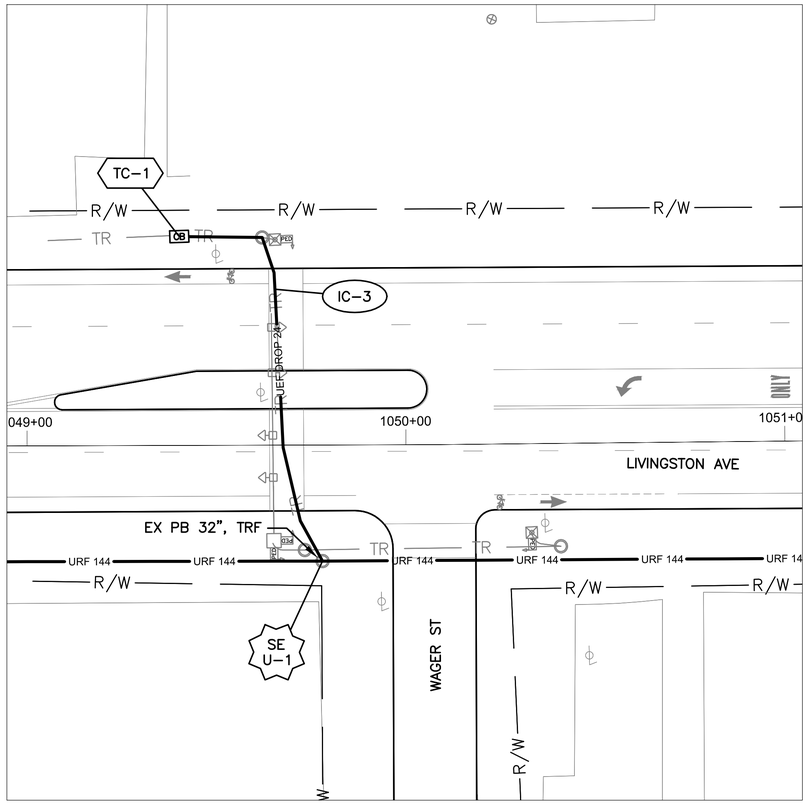
309
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1047+00 AND 1052+00



DETAIL - INT 2005

0 20 40
HORIZONTAL SCALE IN FEET

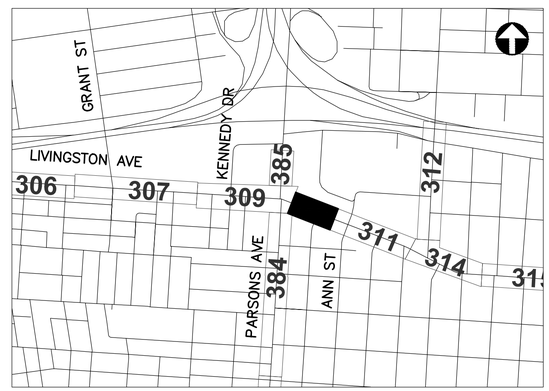
NOTES:

1. SEE SHEET 316 FOR QUANTITIES.
2. SEE SHEETS 608 & 744 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

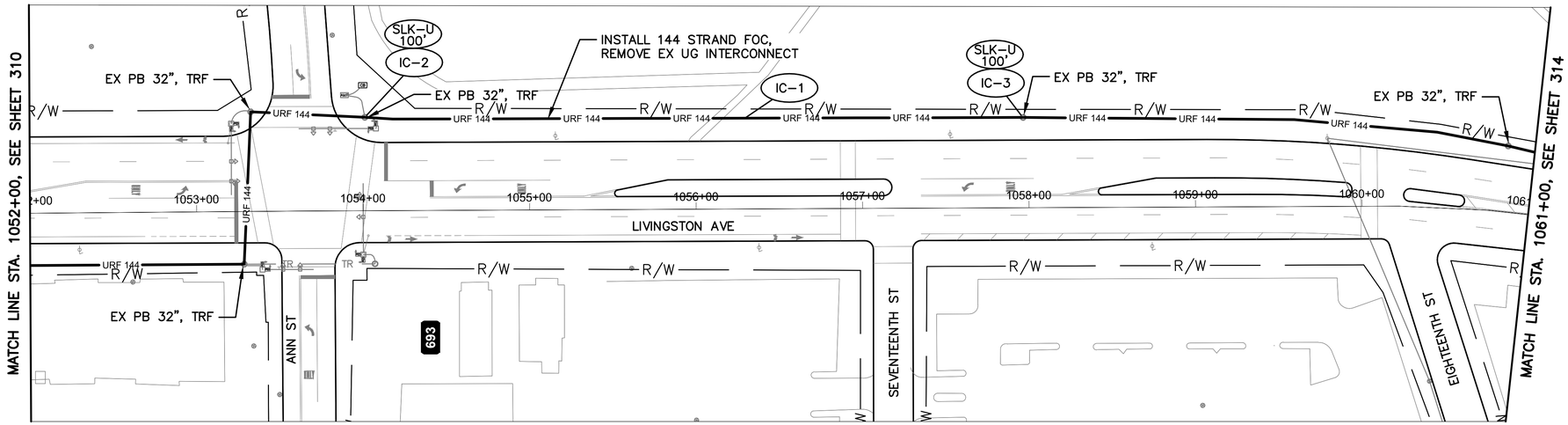
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1047+00 AND 1052+00, INT 2005

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

310
911

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LIVINGSTON AVE BETWEEN STATION 1052+00 AND 1061+00

NOTES:

1. SEE SHEET 316 FOR QUANTITIES.
2. SEE SHEET 608 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

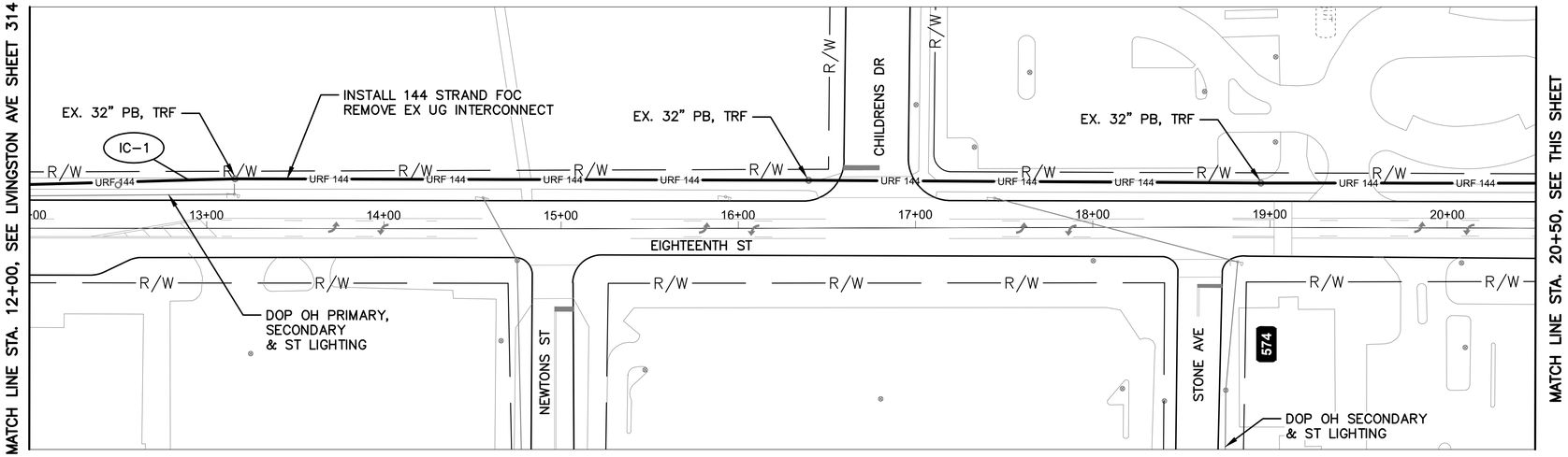
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1052+00 AND 1061+00

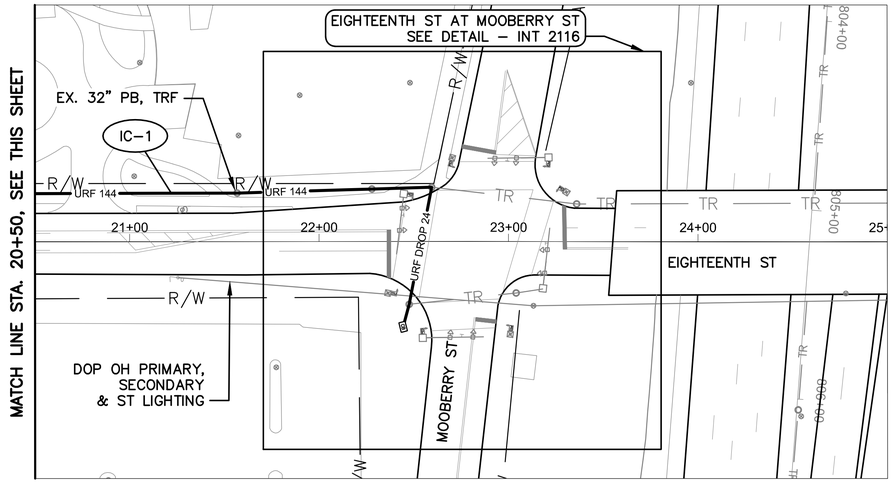
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

311
911

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EIGHTEENTH ST BETWEEN STATION 12+00 AND 20+50



EIGHTEENTH ST BETWEEN STATION 20+50 AND 25+00

DETAIL - INT 2116

0 20 40
HORIZONTAL
SCALE IN FEET

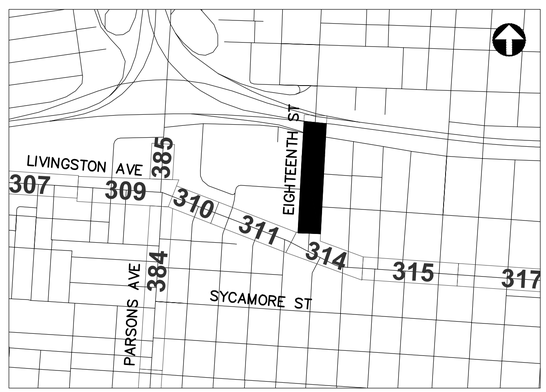
NOTES:

1. SEE SHEET 313 FOR QUANTITIES.
2. SEE SHEETS 612 & 746 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 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
EIGHTEENTH ST BETWEEN STA. 12+00 AND 25+00, INT 2116

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

312
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	633	633	633												
					EXISTING CONDUIT CLEANED, AS PER PLAN	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: REMOVE EXISTING UNDERGROUND INTERCONNECT	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	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	FT	EACH	EACH	EACH	EACH	EACH												
EIGHTEENTH ST. BETWEEN STA. 12+00 AND 25+00, INT 2116																								
312	IC-1	EIGHTEENTH ST	12+00, 25' LT	22+27, 28' LT	1028	1028	1028																	
312	SE U-1	EIGHTEENTH ST	22+27, 28' LT			75		1																
312	IC-2	EIGHTEENTH ST	22+27, 28' LT	22+44, 45' RT	107		107		1															
312	TC-1	EIGHTEENTH ST	22+44, 45' RT							1	1	1												
SHEET TOTAL					1135	1103	1135	1	1	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

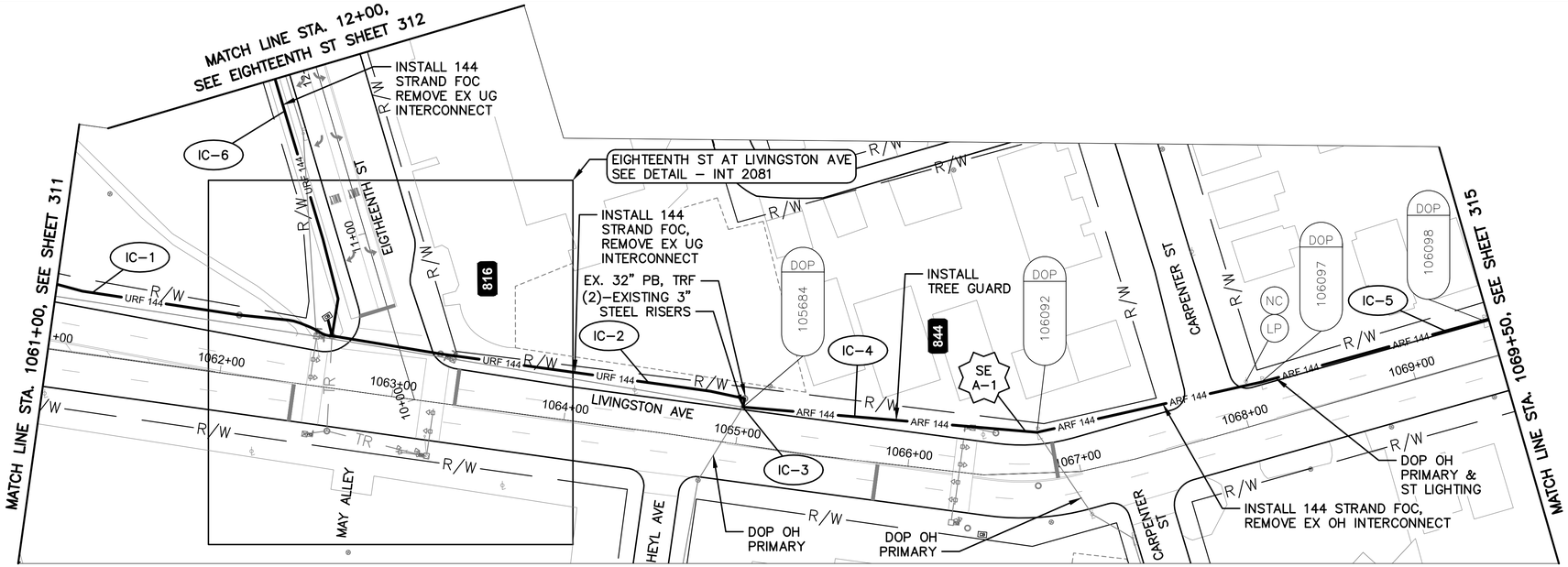
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PID NUMBER: 14522

EIGHTEENTH ST. BTW STA. 12+00 & 25+00
INT 2116

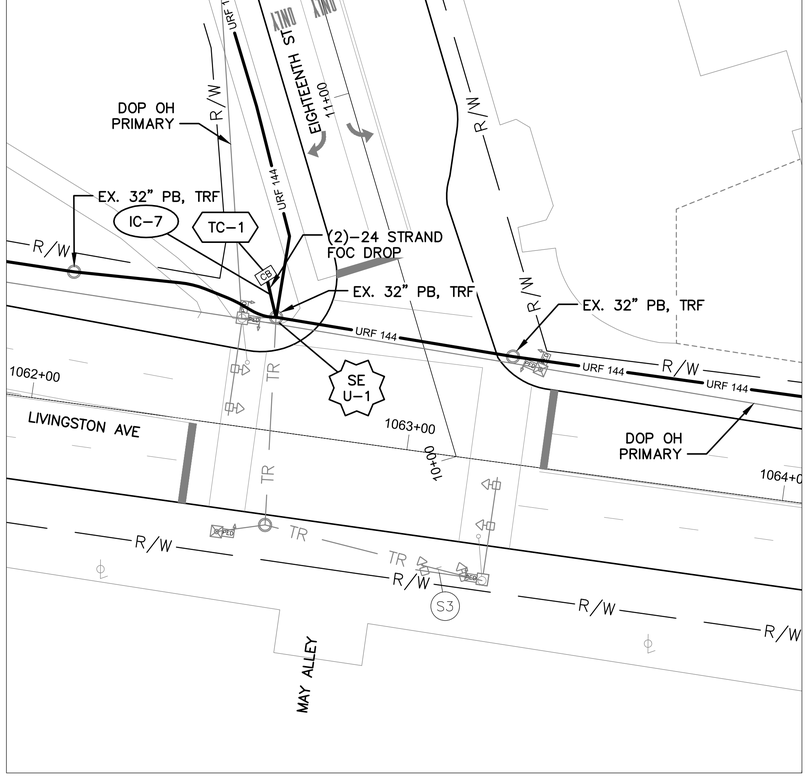
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

313
911

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LIVINGSTON AVE BETWEEN STATION 1061+00 AND 1069+50



DETAIL - INT 2081

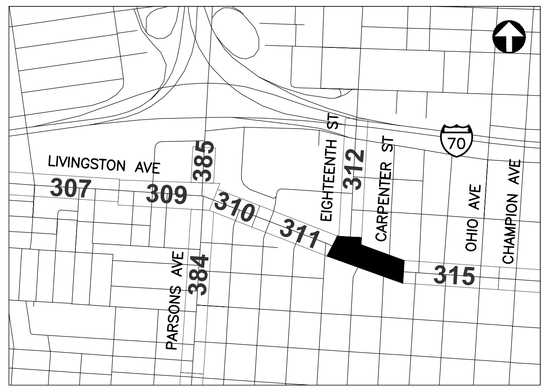
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 316 FOR QUANTITIES.
2. SEE SHEETS 612 & 745 FOR COMMUNICATION DETAILS.
3. 2 STEEL RISERS AT STA 1065+00, ONE HAS EXISTING COAX, ONE IS EMPTY, USE THE EMPTY ONE.
4. FOR THE SPLICE ENCLOSURE AT INT 2084, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.
5. SPLICE ALL FIBERS, LIKE COLOR FIBER/BUFFER TUBE AT SE A–1.
6. CONTRACTOR MAY USE ONE CONTINUOUS FIBER OPTIC CABLE FROM SEGMENTS LI–2 + LI–3. NO ADDITIONAL COMPENSATION.

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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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

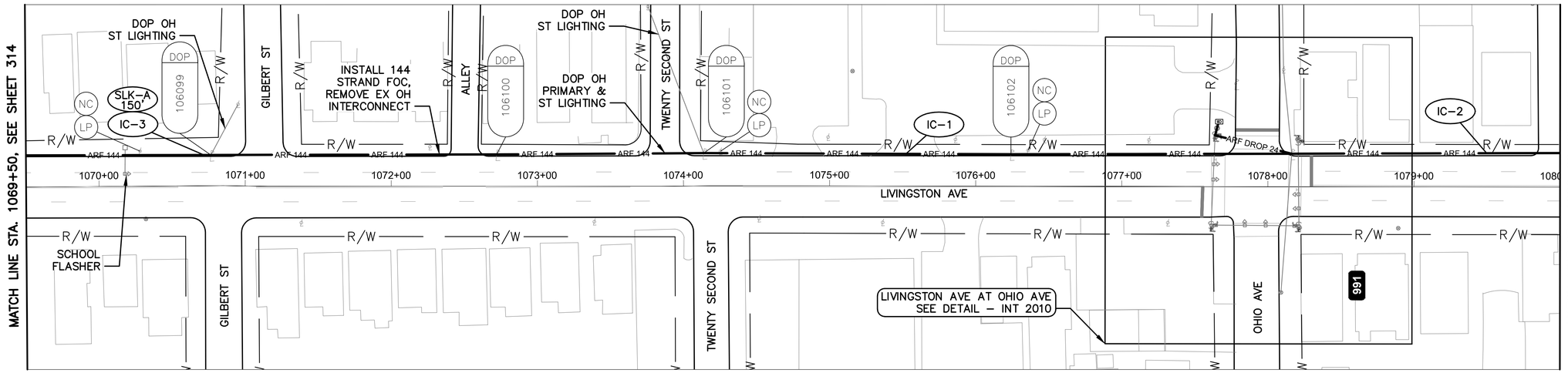
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1061+00 AND 1069+50, INT 2081

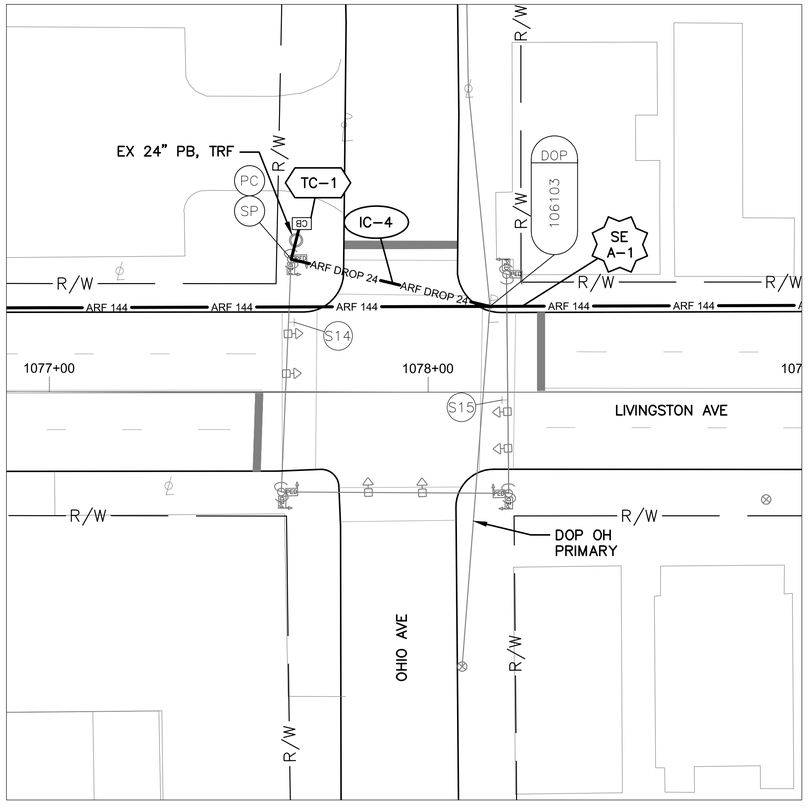
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

314
911

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LIVINGSTON AVE BETWEEN STATION 1069+50 AND 1080+00



DETAIL - INT 2010

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 316 FOR QUANTITIES.
2. SEE SHEETS 612 & 747 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 270 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
LIVINGSTON AVE BETWEEN STA. 1069+50 AND 1080+00, INT 2010

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

315
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_B_INTERCONNECT1.dwg – LIVINGSTON 7 layout ~ last saved by: sdlowry 05/08/2017 04:12pm ~ printed 05/08/2017 09:33pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	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, 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	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.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN			
			FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH			
LIVINGSTON AVE. BETWEEN STA. 1036+50 AND 1047+00, INT 2007																							
309	IC-1	LIVINGSTON AVE	1036+50, 26' RT	1045+15, 31' RT	866		866		866														
309	IC-2	LIVINGSTON AVE	1039+92, 33' RT				100																
309	TC-1	LIVINGSTON AVE	1044+81, 64' LT													10		4	1	1			
309	EC-2	LIVINGSTON AVE	1044+81, 64' LT	1046+32, 47' RT												240							
309	IC-9	LIVINGSTON AVE	1044+81, 64' LT	1045+02, 78' LT								1											
309	IC-8	LIVINGSTON AVE	1044+81, 64' LT	1046+32, 47' RT										1									
309	IC-4	LIVINGSTON AVE	1044+93, 142' LT	1045+02, 78' LT	50		50																
309	IC-7	LIVINGSTON AVE	1045+02, 78' LT	1045+15, 31' RT	110		220																
309	SE U-2	LIVINGSTON AVE	1045+02, 78' LT				225				1												
309	IC-6	LIVINGSTON AVE	1045+15, 31' RT	1046+32, 47' RT	104		104		104														
309	SE U-1	LIVINGSTON AVE	1046+32, 47' RT				225				1												
309	EC-1	LIVINGSTON AVE	1046+32, 47' RT	1046+47, 31' RT												27							
309	IC-5	LIVINGSTON AVE	1046+32, 47' RT	1046+54, 137' RT	94		94		94														
309	IC-3	LIVINGSTON AVE	1046+32, 47' RT	1047+00, 31' RT	71		71		71														
309	CTV-1	LIVINGSTON AVE	1046+47, 31' RT													35	1						
LIVINGSTON AVE. BETWEEN STA. 1047+00 AND 1052+00, INT 2005																							
310	IC-1	LIVINGSTON AVE	1047+00, 31' RT	1049+77, 31' RT	278		278		278														
310	TC-1	LIVINGSTON AVE	1049+40, 55' LT															2		1	1		
310	IC-3	LIVINGSTON AVE	1049+40, 55' LT	1049+77, 31' RT	110								1										
310	SE U-1	LIVINGSTON AVE	1049+77, 31' RT				150			1													
310	IC-2	LIVINGSTON AVE	1049+77, 31' RT	1052+00, 31' RT	222		222		222														
LIVINGSTON AVE. BETWEEN STA. 1052+00 AND 1061+00																							
311	IC-1	LIVINGSTON AVE	1052+00, 31' RT	1061+00, 38' LT	992		992		992														
311	IC-2	LIVINGSTON AVE	1054+01, 56' LT				100																
311	IC-3	LIVINGSTON AVE	1057+98, 54' LT				100																
LIVINGSTON AVE. BETWEEN STA. 1061+00 AND 1069+50, INT 2081																							
314	IC-1	LIVINGSTON AVE	1061+00, 38' LT	1062+61, 30' LT	163		163		163														
314	IC-6	LIVINGSTON AVE	1062+08, 172' LT	1062+61, 30' LT	153		153		153														
314	TC-1	LIVINGSTON AVE	1062+56, 40' LT															3	1	1			
314	IC-7	LIVINGSTON AVE	1062+56, 40' LT	1062+61, 30' LT	12		12		12			2											
314	SE U-1	LIVINGSTON AVE	1062+61, 30' LT				225				1												
314	IC-2	LIVINGSTON AVE	1062+61, 30' LT	1065+00, 22' LT	246		246		246														
314	IC-3	LIVINGSTON AVE	1065+00, 22' LT				35																
314	IC-4	LIVINGSTON AVE	1065+00, 22' LT	1066+76, 23' LT			177	174							177								
314	SE A-1	LIVINGSTON AVE	1066+76, 23' LT				150				1												
314	IC-5	LIVINGSTON AVE	1066+76, 23' LT	1069+50, 22' LT			268	264							268								
LIVINGSTON AVE. BETWEEN STA. 1069+50 AND 1080+00, INT 2010																							
315	IC-1	LIVINGSTON AVE	1069+50, 22' LT	1078+15, 22' LT			879	866							879								
315	IC-3	LIVINGSTON AVE	1070+71, 21' LT				150																
315	TC-1	LIVINGSTON AVE	1077+66, 44' LT															2	1	1			
315	IC-4	LIVINGSTON AVE	1077+66, 44' LT	1078+15, 22' LT	63								1										
315	SE A-1	LIVINGSTON AVE	1078+15, 22' LT			1	150				1												
315	IC-2	LIVINGSTON AVE	1078+15, 22' LT	1080+00, 23' LT			187	184							187								
SHEET TOTAL					3534	1	6580	1488	3201	1	5	3	2	1	1511	312	1	11	3	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

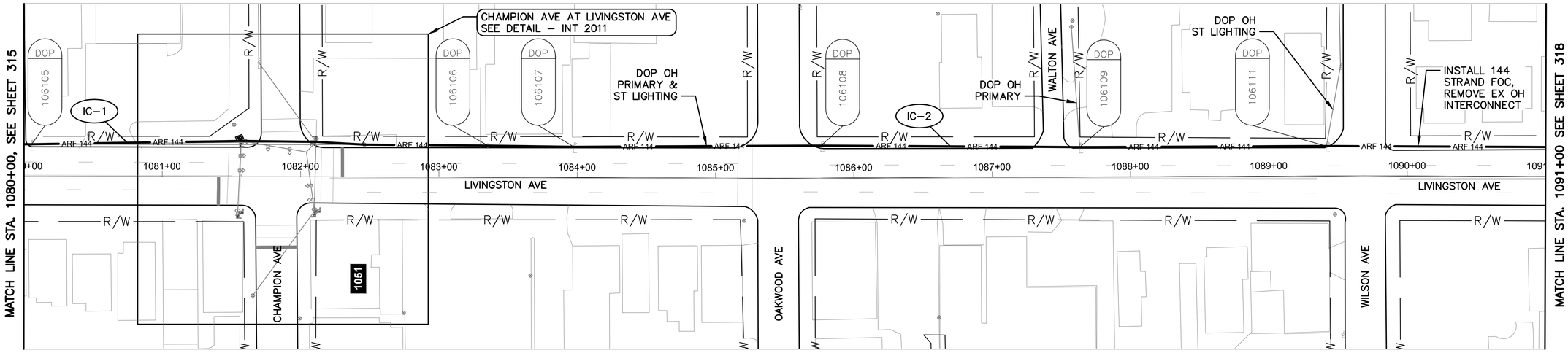
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1036+50 & 1080+00
INTS 2007, 2005, 2081, 2010

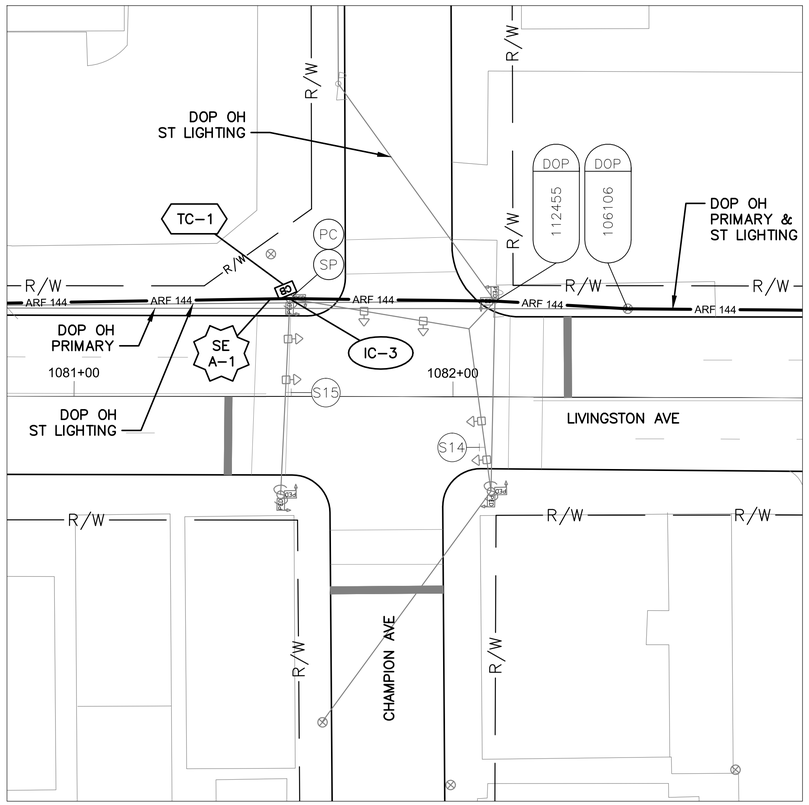
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

316
911

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LIVINGSTON AVE BETWEEN STATION 1080+00 AND 1091+00



DETAIL - INT 2011

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEETS 612 & 748 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 2011 FOR FUTURE DoT USE.

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

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

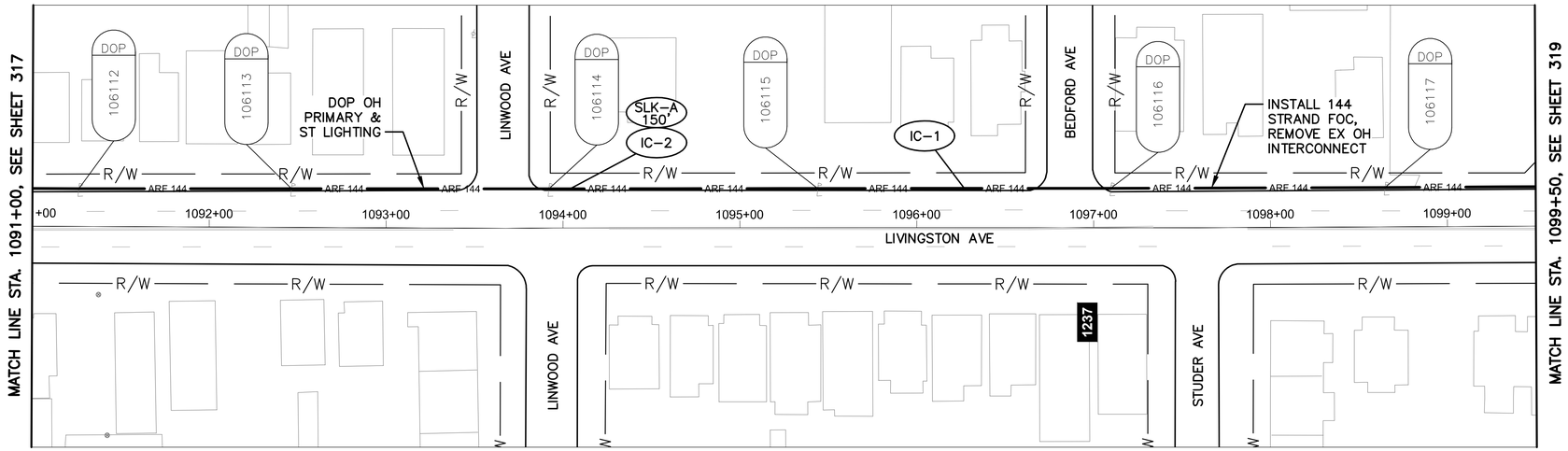
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1080+00 AND 1091+00, INT 2011

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

317
911

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LIVINGSTON AVE BETWEEN STATION 1091+00 AND 1099+50

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEET 612 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

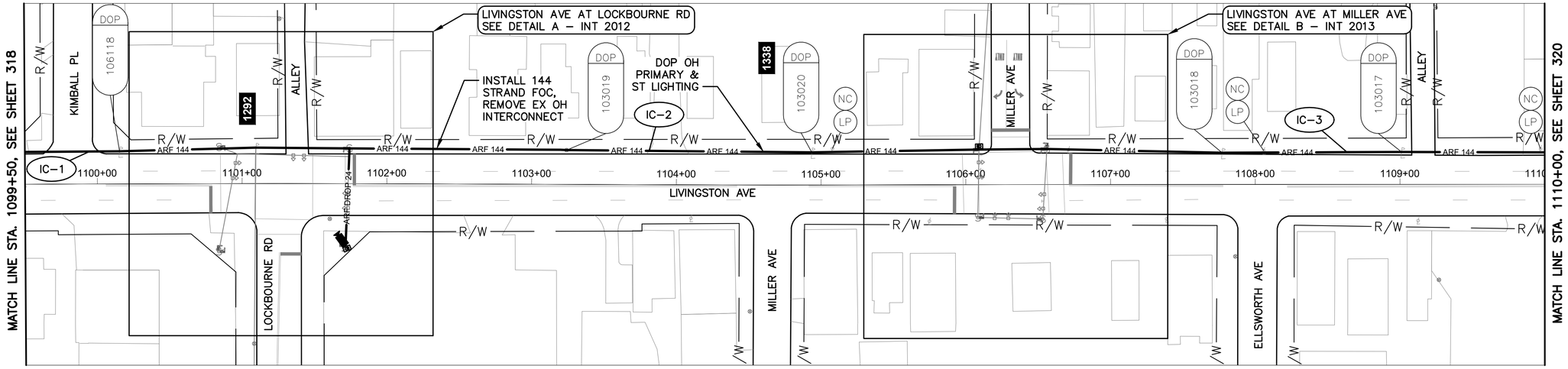
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1091+00 AND 1099+50.

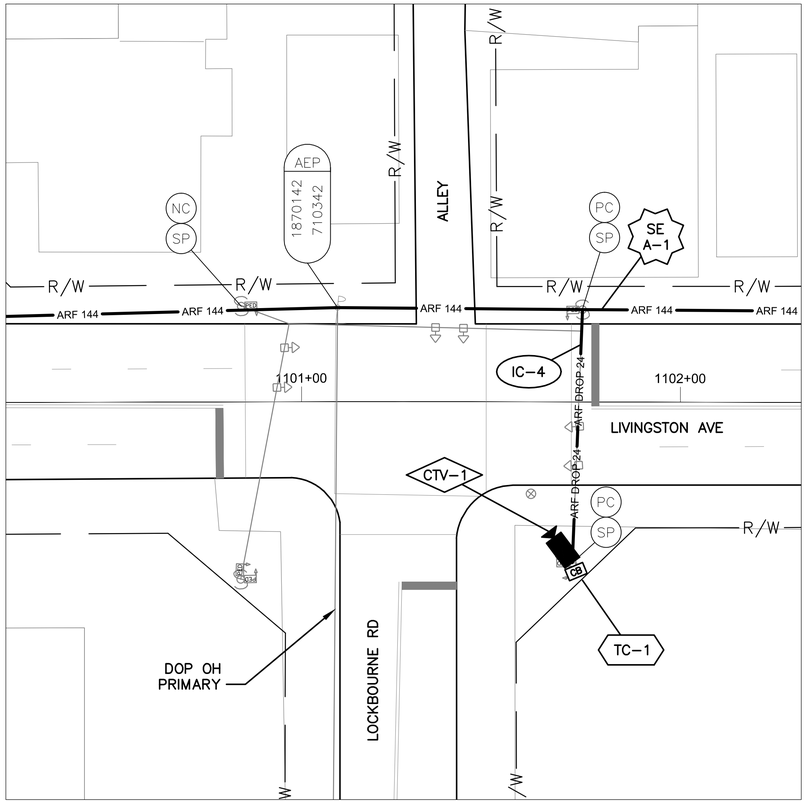
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

318
911

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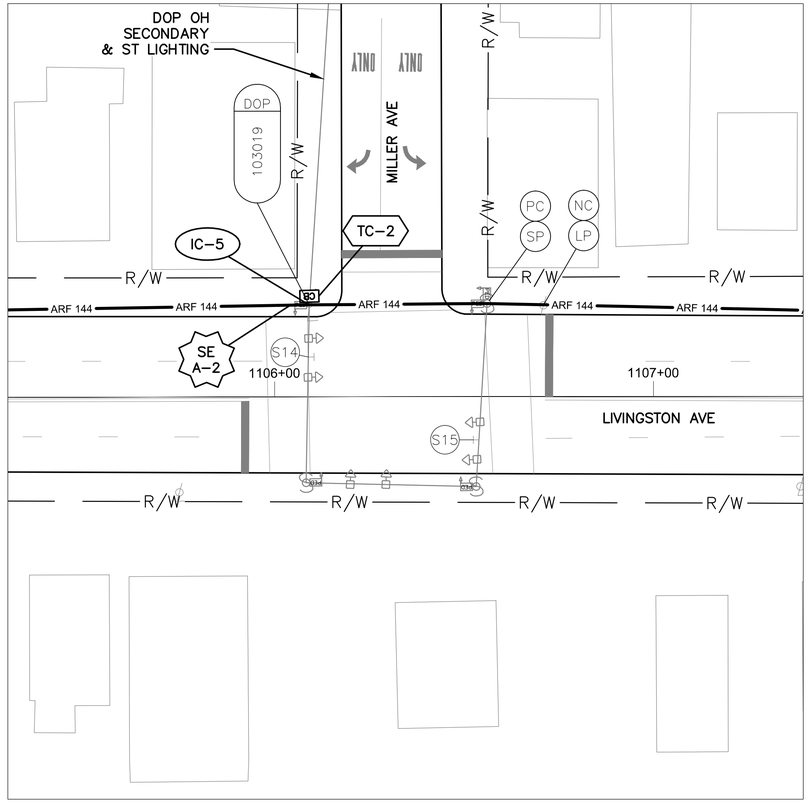


LIVINGSTON AVE BETWEEN STATION 1099+50 AND 1110+00



DETAIL A - INT 2012

0 20 40
HORIZONTAL SCALE IN FEET



DETAIL B - INT 2013

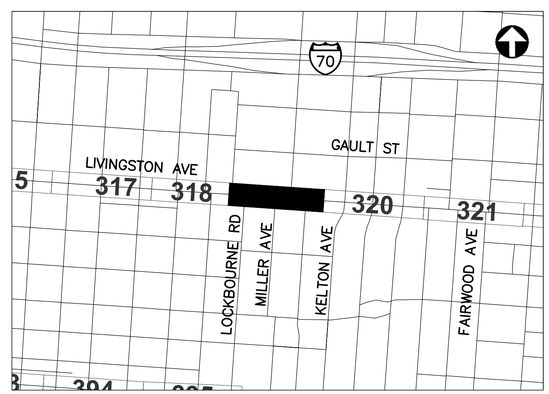
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEETS 612, 749 & 750 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

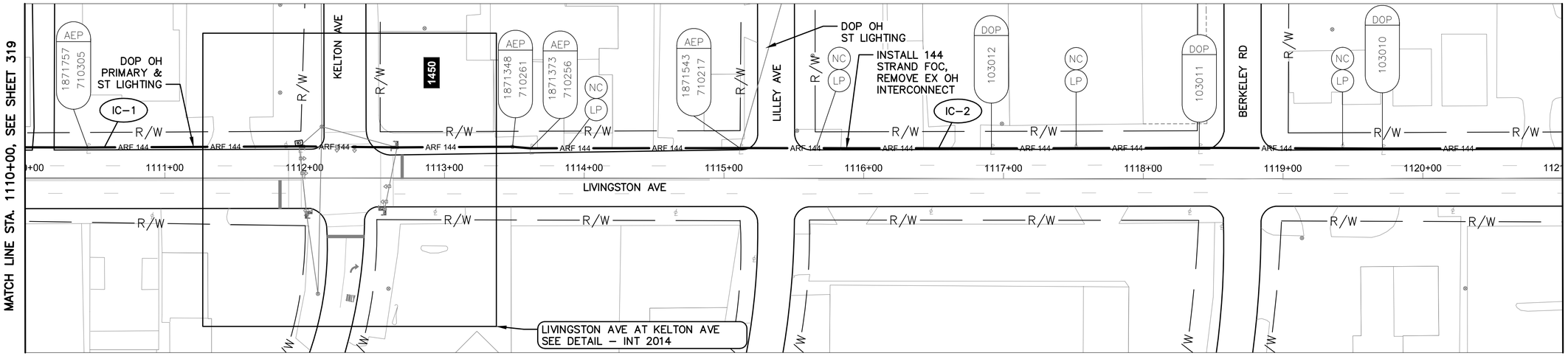
INTERCONNECT PLAN
LIVINGSTON AVE BTW STA. 1099+50 AND 1110+00, INTS 2012 & 2013

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

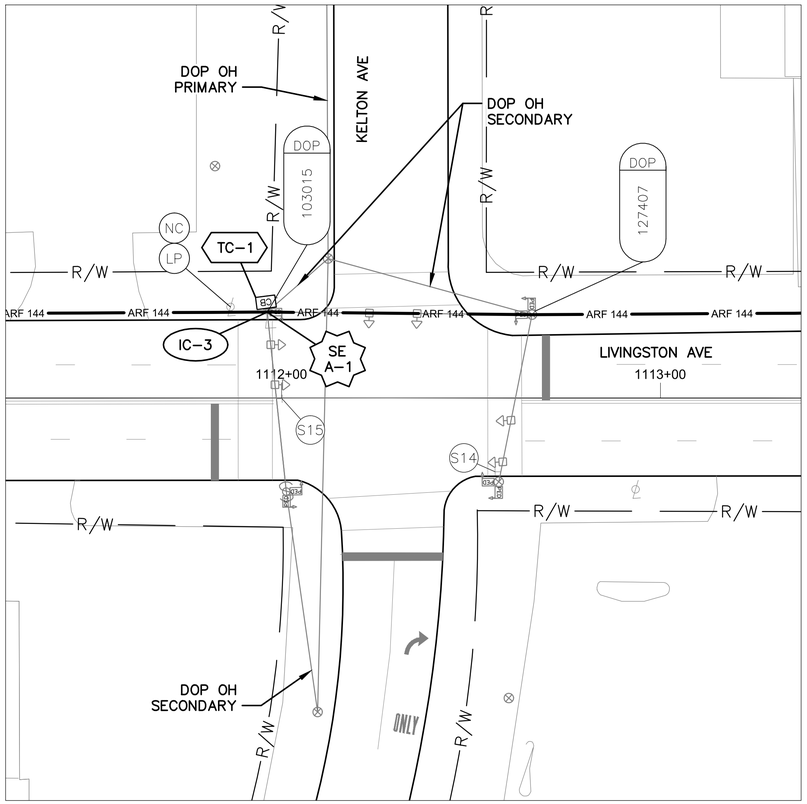
319
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1110+00 AND 1121+00



DETAIL - INT 2014

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEETS 612 & 751 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

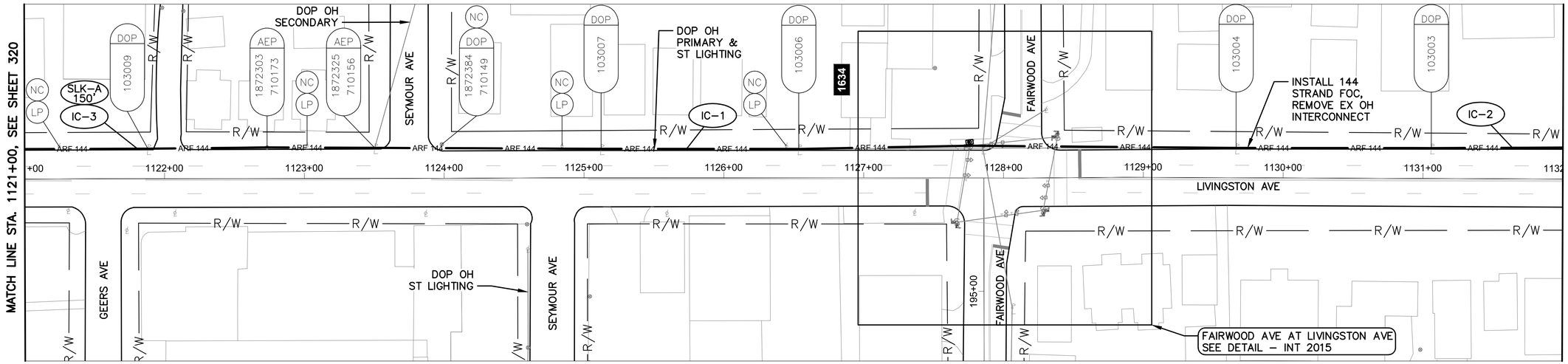
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1110+00 AND 1121+00, INT 2014

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

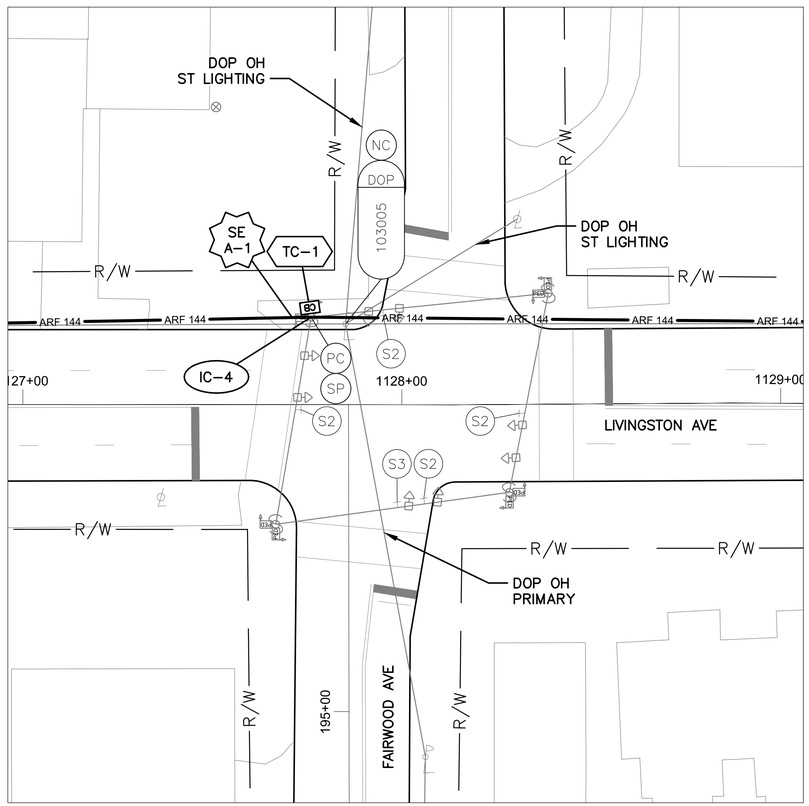
320
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1121+00 AND 1132+00



DETAIL - INT 2015

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEETS 612 & 752 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

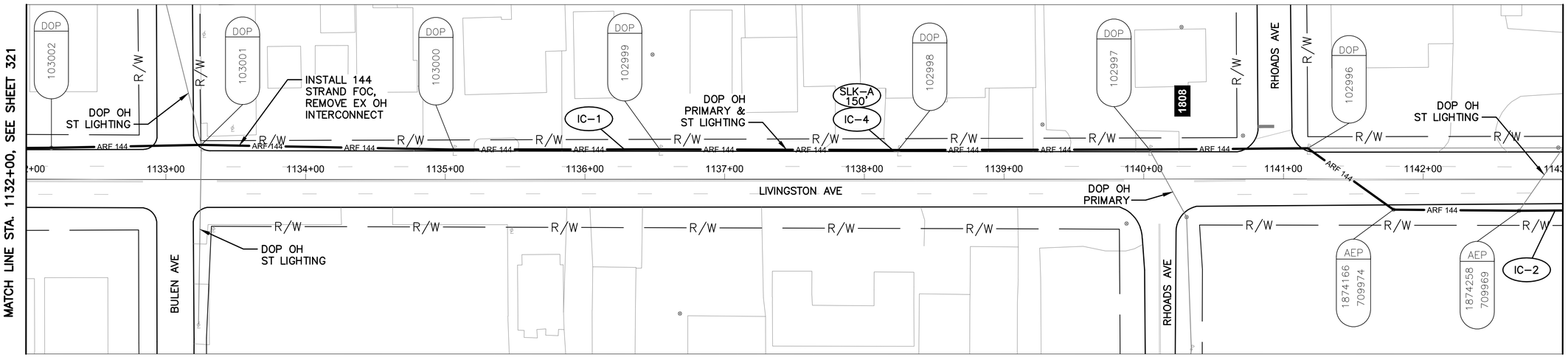
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1121+00 AND 1132+00, INT 2015

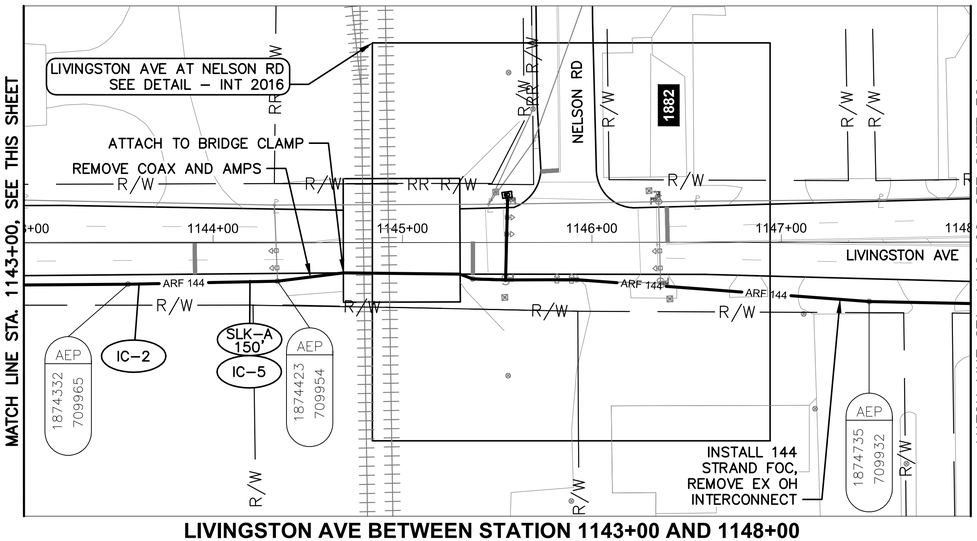
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

321
911

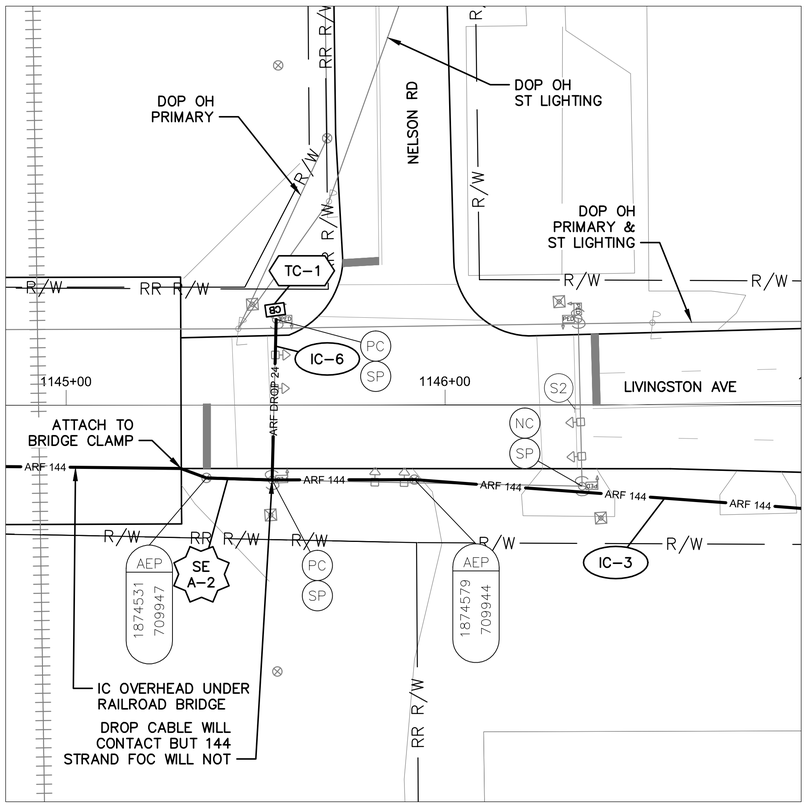
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LIVINGSTON AVE BETWEEN STATION 1132+00 AND 1143+00



LIVINGSTON AVE BETWEEN STATION 1143+00 AND 1148+00



DETAIL - INT 2016

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 323 FOR QUANTITIES.
2. SEE SHEET 612 & 753 FOR COMMUNICATION DETAILS.
3. CONTRACTOR MAY USE ONE CONTINUOUS FIBER OPTIC CABLE FROM SEGMENTS LI–3 + LI–4. NO ADDITIONAL COMPENSATION.

UNDERGROUND UTILITIES
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CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1132+00 AND 1148+00. INT 2016

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

322
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/ 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)	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 UNIT, TYPE TS2/A2, AS PER PLAN (EACH)
LIVINGSTON AVE. BETWEEN STA. 1080+00 AND 1091+00, INT 2011																
317	IC-1	LIVINGSTON AVE	1080+00, 23' LT	1081+56, 26' LT	159	157				159						
317	SE A-1	LIVINGSTON AVE	1081+56, 26' LT		300		1									
317	IC-3	LIVINGSTON AVE	1081+56, 26' LT	1081+56, 26' LT				1								
317	TC-1	LIVINGSTON AVE	1081+56, 26' LT											2	1	1
317	IC-2	LIVINGSTON AVE	1081+56, 26' LT	1091+00, 21' LT	957	943				957						
LIVINGSTON AVE. BETWEEN STA. 1091+00 AND 1099+50																
318	IC-1	LIVINGSTON AVE	1091+00, 21' LT	1099+50, 22' LT	863	850				863						
318	IC-2	LIVINGSTON AVE	1094+04, 22' LT		150											
LIVINGSTON AVE. BETWEEN STA. 1099+50 AND 1110+00, INTS 2012 & 2013																
319	IC-1	LIVINGSTON AVE	1099+50, 22' LT	1101+74, 24' LT	227	224				227						
319	CTV-1	LIVINGSTON AVE	1101+72, 43' RT									45	1			
319	IC-4	LIVINGSTON AVE	1101+72, 43' RT	1101+74, 24' LT		68			1	68						
319	TC-1	LIVINGSTON AVE	1101+72, 43' RT											2	1	1
319	SE A-1	LIVINGSTON AVE	1101+74, 24' LT		150		1									
319	IC-2	LIVINGSTON AVE	1101+74, 24' LT	1106+09, 24' LT	442	435				442						
319	SE A-2	LIVINGSTON AVE	1106+09, 24' LT		150		1									
319	IC-5	LIVINGSTON AVE	1106+09, 24' LT	1106+09, 24' LT				1								
319	TC-2	LIVINGSTON AVE	1106+09, 24' LT											2	1	1
319	IC-3	LIVINGSTON AVE	1106+09, 24' LT	1110+00, 22' LT	397	391				397						
LIVINGSTON AVE. BETWEEN STA. 1110+00 AND 1121+00, INT 2014																
320	IC-1	LIVINGSTON AVE	1110+00, 22' LT	1111+96, 23' LT	199	196				199						
320	SE A-1	LIVINGSTON AVE	1111+96, 23' LT		150		1									
320	IC-3	LIVINGSTON AVE	1111+96, 23' LT	1111+96, 23' LT				1								
320	TC-1	LIVINGSTON AVE	1111+96, 23' LT											2	1	1
320	IC-2	LIVINGSTON AVE	1111+96, 23' LT	1121+00, 21' LT	918	904				918						
LIVINGSTON AVE. BETWEEN STA. 1121+00 AND 1132+00, INT 2015																
321	IC-1	LIVINGSTON AVE	1121+00, 21' LT	1127+76, 23' LT	686	676				686						
321	IC-3	LIVINGSTON AVE	1121+80, 21' LT		150											
321	SE A-1	LIVINGSTON AVE	1127+76, 23' LT		150		1									
321	IC-4	LIVINGSTON AVE	1127+76, 23' LT	1127+76, 23' LT				1								
321	TC-1	LIVINGSTON AVE	1127+76, 23' LT											2	1	1
321	IC-2	LIVINGSTON AVE	1127+76, 23' LT	1132+00, 22' LT	430	424				430						
LIVINGSTON AVE. BETWEEN STA. 1132+00 AND 1148+00, INT 2016																
322	IC-1	LIVINGSTON AVE	1132+00, 22' LT	1141+79, 22' RT	993	978				993						
322	IC-4	LIVINGSTON AVE	1138+19, 21' LT		150											
322	SE A-1	LIVINGSTON AVE	1141+79, 22' RT		150		1									
322	IC-2	LIVINGSTON AVE	1141+79, 22' RT	1145+37, 19' RT	380	374				380	2					
322	IC-5	LIVINGSTON AVE	1144+37, 20' RT		150											
322	SE A-2	LIVINGSTON AVE	1145+37, 19' RT		150		1									
322	IC-3	LIVINGSTON AVE	1145+37, 19' RT	1148+00, 33' RT	267	263				267						
322	IC-6	LIVINGSTON AVE	1145+37, 19' RT	1145+55, 23' LT		101			1	103						
322	TC-1	LIVINGSTON AVE	1145+55, 23' LT											2	1	1
SHEET TOTAL					8718	6984	7	4	2	7089	2	45	1	12	6	6

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

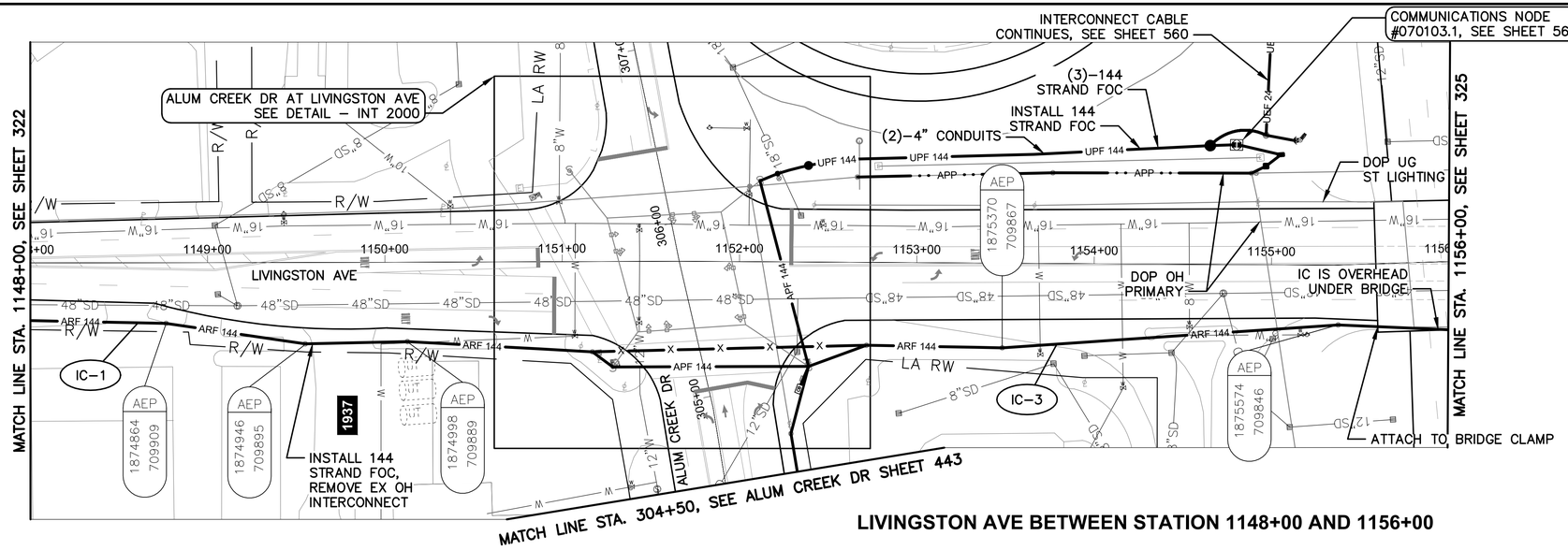
CIP: 540007–100005
PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1080+00 & 1148+00
INTS 2011, 2012, 2013, 2014, 2015, 2016

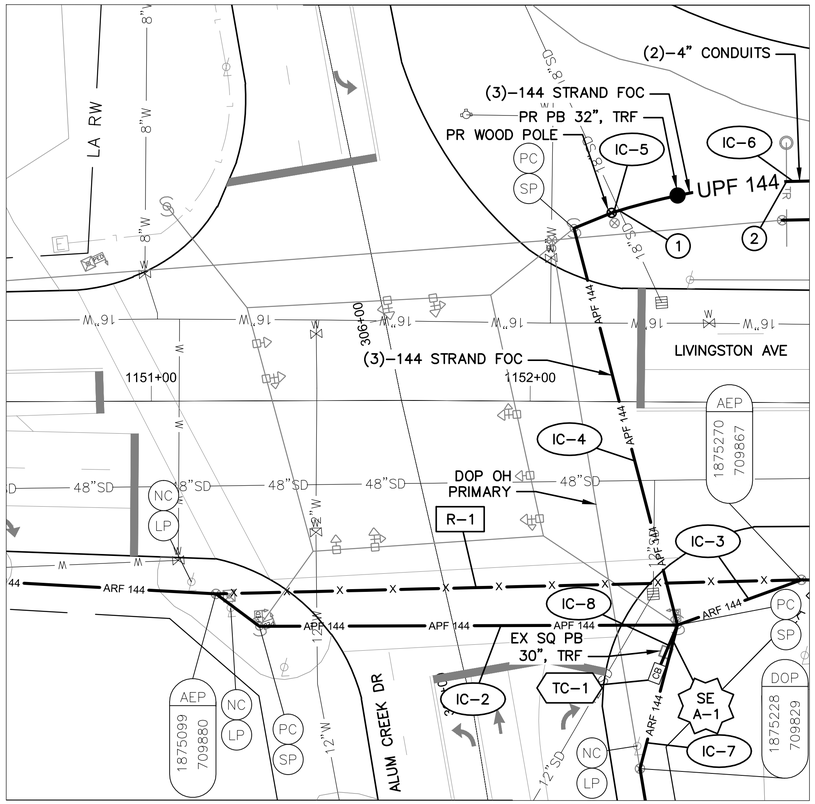
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

323
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_Phc_LIVINGSTON_A_INTERCONNECT_QUANTITIES.dwg ~ LIVINGSTON_3 layout ~ last saved by: gburch 10/17/2014 08:19am ~ printed 05/08/2017 09:39am

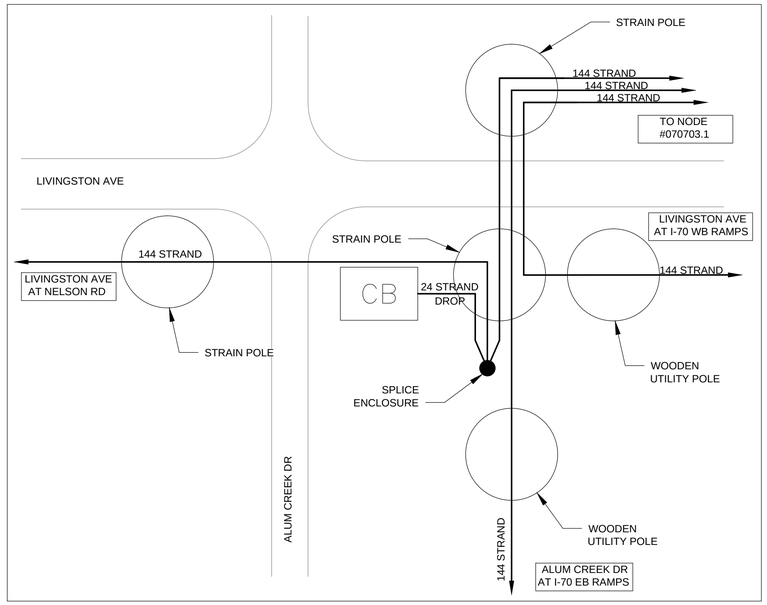


LIVINGSTON AVE BETWEEN STATION 1148+00 AND 1156+00



DETAIL - INT 2000

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

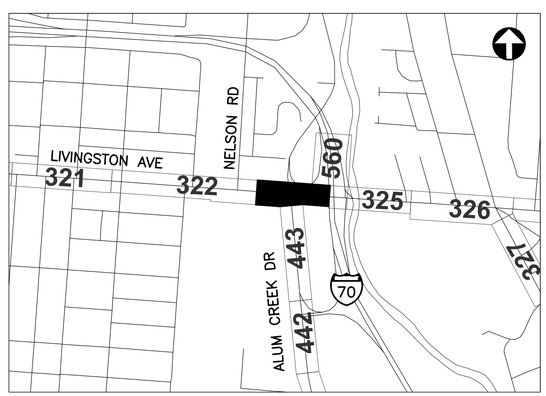
1. SEE SHEET 331 FOR QUANTITIES.
2. SEE SHEETS 612 & 754 FOR COMMUNICATION DETAILS.
3. SEE SHEET 291 FOR POWER SERVICE DETAILS.
4. SEE SHEETS 561 & 562 FOR NODE QUANTITIES.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

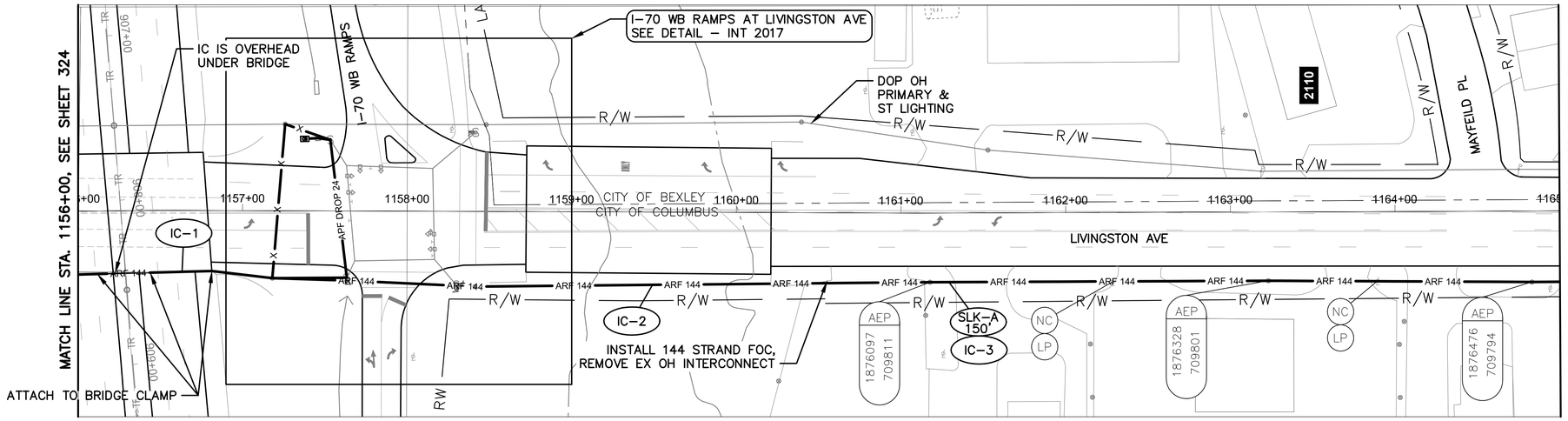
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1148+00 AND 1156+00, INT 2000

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

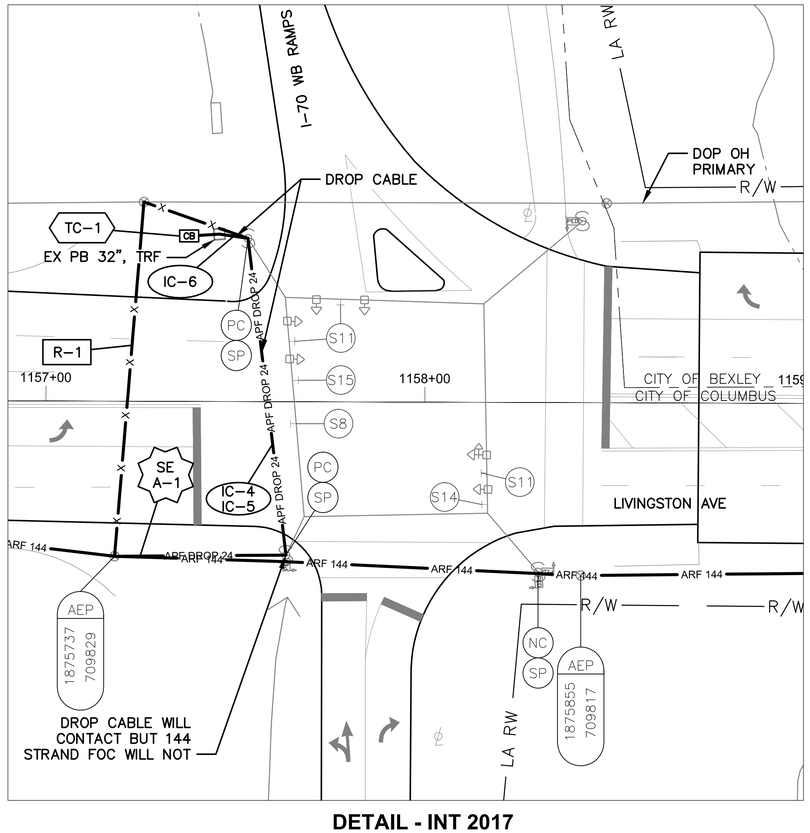
324
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1156+00 AND 1165+00



DETAIL - INT 2017

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 331 FOR QUANTITIES.
2. SEE SHEETS 612 & 755 FOR COMMUNICATION DETAILS.
3. UNDERPASS LIGHTING WITH SURFACE MOUNTED CONDUIT IS PRESENT ON LIVINGSTON AT 1156+00. PROTECT FROM DAMAGE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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
- [X] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

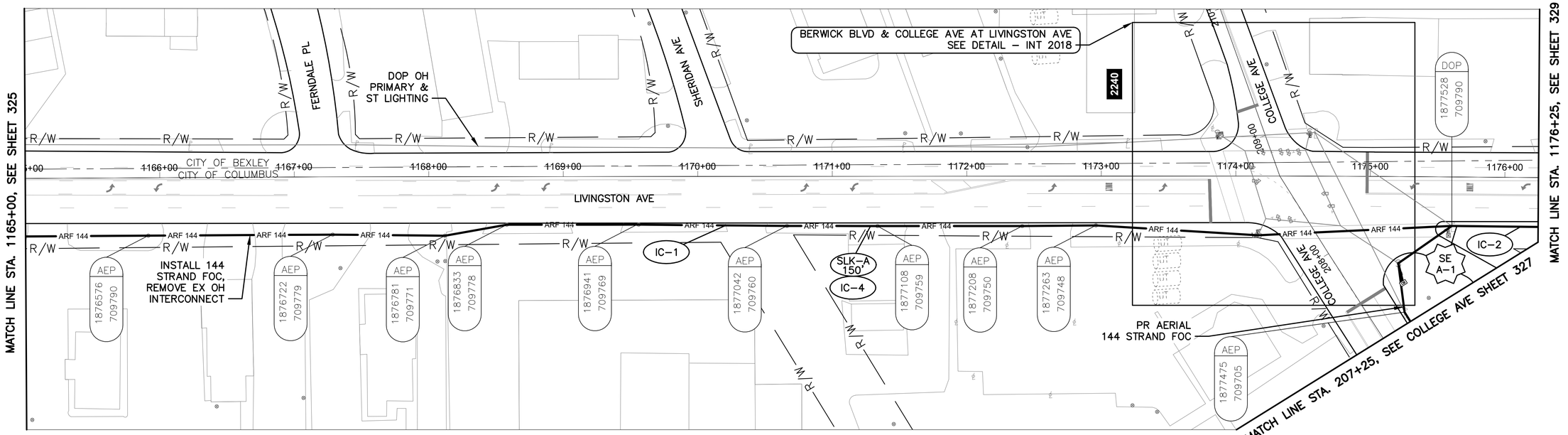
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1156+00 AND 1165+00, INT 2017

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

325
911

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LIVINGSTON AVE BETWEEN STATION 1165+00 AND 1176+25

DETAIL - INT 2018

0 20 40
HORIZONTAL SCALE IN FEET

CABLE SCHEMATIC

NOT TO SCALE

NOTES:

1. SEE SHEET 331 FOR QUANTITIES.
2. SEE SHEETS 612 & 756 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2018, 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN

NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

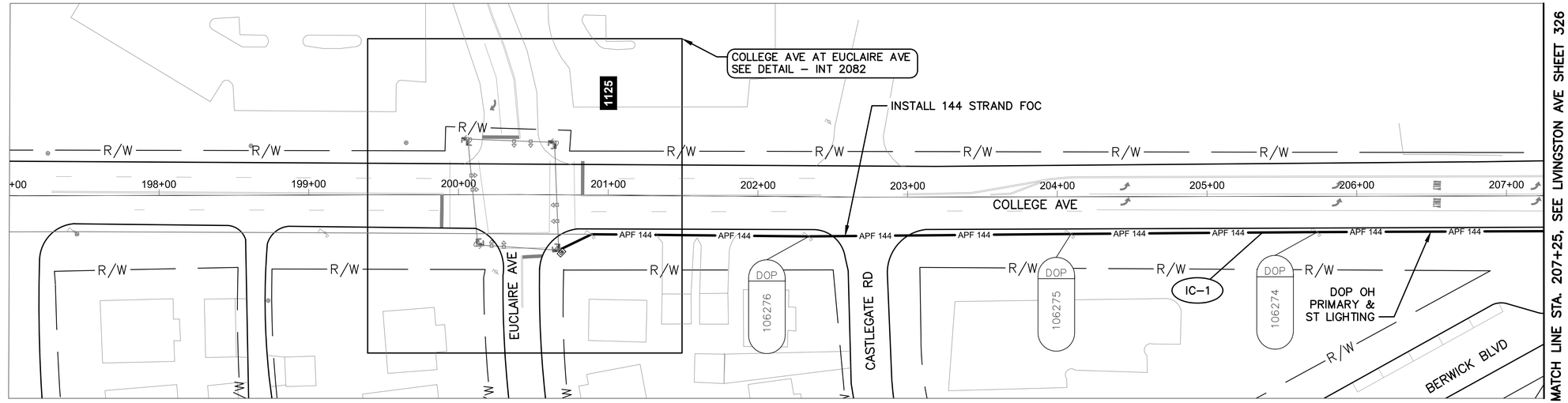
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1165+00 AND 1176+25, INT 2018

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

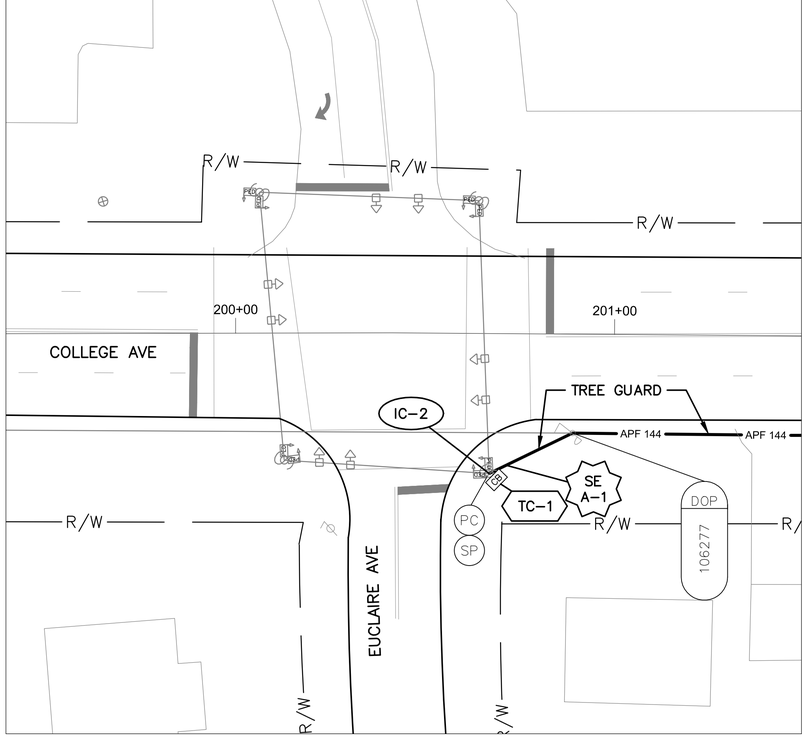
326
911

2953-E

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COLLEGE AVE BETWEEN STATION 197+00 AND 207+25



DETAIL - INT 2082

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 328 FOR QUANTITIES.
2. SEE SHEETS 612 & 758 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 271 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
COLLEGE AVE BETWEEN STA. 197+00 AND 207+25, INT 2082

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

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	633	633	633													
					INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	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	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	EACH	FT	EACH	EACH	EACH													
COLLEGE AVE. BETWEEN STA. 197+00 AND 207+25, INT 2082																								
327	SE A-1	COLLEGE ST	200+67, 37' RT		75	1																		
327	IC-2	COLLEGE ST	200+67, 37' RT	200+67, 37' RT			1																	
327	TC-1	COLLEGE ST	200+67, 37' RT						1	1	1													
327	IC-1	COLLEGE ST	200+67, 37' RT	207+25, 24' RT	671			671																
SHEET TOTAL					746	1	1	671	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

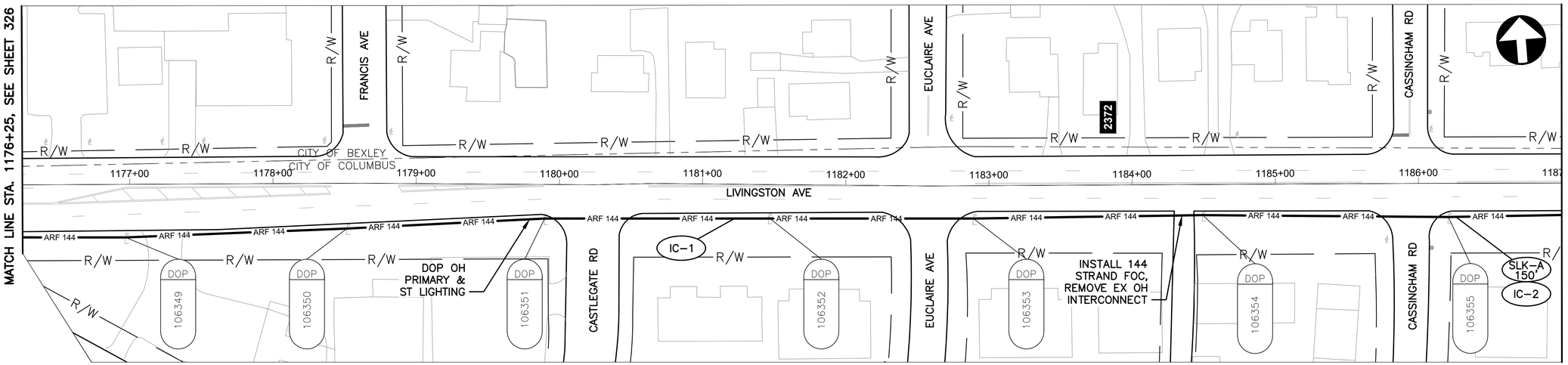
CIP: 540007–100005
PID NUMBER: 14522

COLLEGE AVE. BTW STA. 197+00 & 207+25
INT 2082

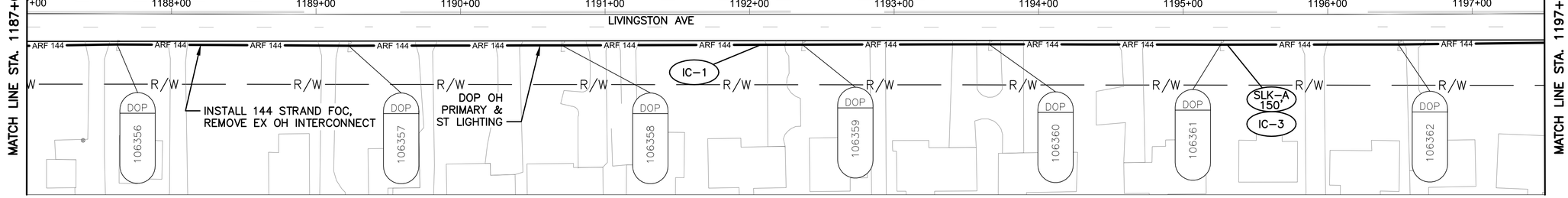
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

328
911

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LIVINGSTON AVE BETWEEN STATION 1176+25 AND 1187+00



LIVINGSTON AVE BETWEEN STATION 1187+00 AND 1197+50

NOTES:

1. SEE SHEET 331 FOR QUANTITIES.
2. SEE SHEET 612 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

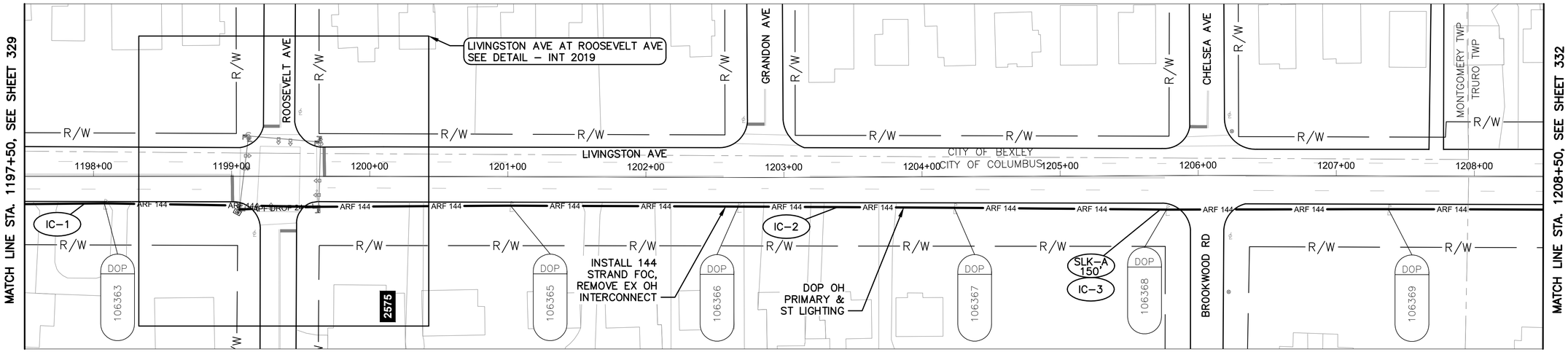
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1176+25 AND 1197+50

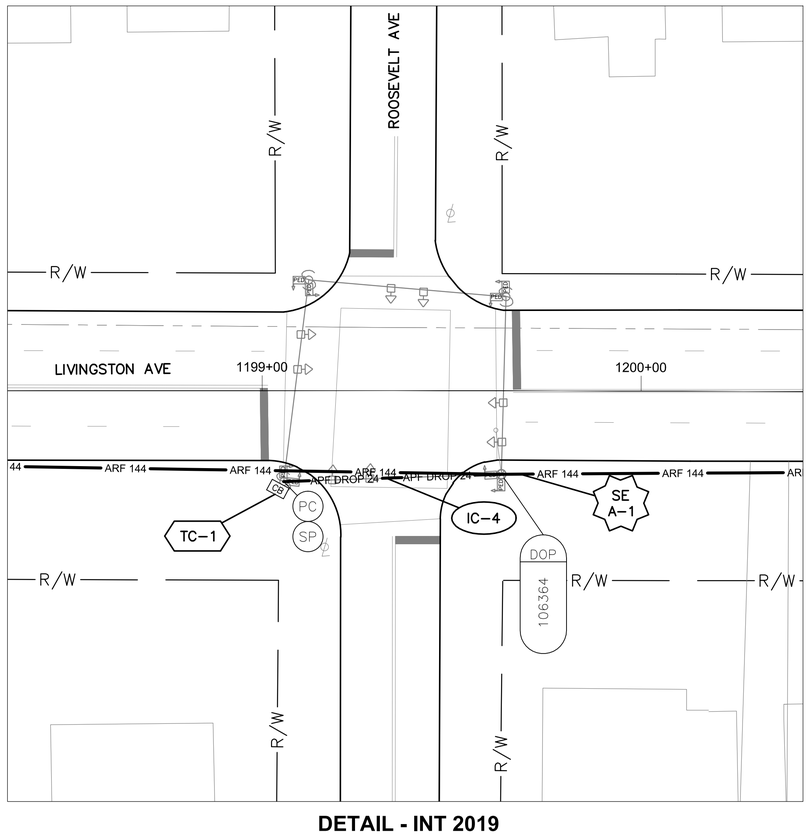
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

329
911

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LIVINGSTON AVE BETWEEN STATION 1197+50 AND 1208+50



DETAIL - INT 2019

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 331 FOR QUANTITIES.
2. SEE SHEETS 612 & 757 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 270 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
LIVINGSTON AVE BETWEEN STA. 1197+50 AND 1208+50, INT 2019

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

330
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	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 4", 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.: 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	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE	WOOD POLE, CLASS 5, 35 FT	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	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	
LIVINGSTON AVE. BETWEEN STA. 1148+00 AND 1156+00, INT 2000																								
324	IC-1	LIVINGSTON AVE	1148+00, 33' RT	1151+16, 51' RT						323	318							323						
324	IC-2	LIVINGSTON AVE	1151+16, 51' RT	1152+39, 59' RT						127								127						
324	R-1	LIVINGSTON AVE	1151+16, 51' RT	1152+71, 47' RT							155													
324	IC-5	LIVINGSTON AVE	1152+22, 47' LT						2	105									1					
324	IC-6	LIVINGSTON AVE	1152+22, 47' LT	1154+87, 85' LT		666	2	333		999														
324	IC-4	LIVINGSTON AVE	1152+22, 47' LT	1152+39, 59' RT						363								121						
324	IC-7	LIVINGSTON AVE	1152+33, 118' RT	1152+39, 59' RT						62	61							62						
324	TC-1	LIVINGSTON AVE	1152+33, 72' RT																	2	1	1		
324	IC-8	LIVINGSTON AVE	1152+33, 72' RT	1152+39, 59' RT	14							14			1									
324	SE A-1	LIVINGSTON AVE	1152+39, 59' RT							150			1											
324	IC-3	LIVINGSTON AVE	1152+39, 59' RT	1156+00, 38' RT						369	364							369	1					
LIVINGSTON AVE. BETWEEN STA. 1156+00 AND 1165+00, INT 2017																								
325	IC-1	LIVINGSTON AVE	1156+00, 38' RT	1157+18, 41' RT						120	118							120	3					
325	IC-4	LIVINGSTON AVE	1157+18, 41' RT	1157+53, 43' LT														131						
325	R-1	LIVINGSTON AVE	1157+18, 41' RT	1157+53, 43' LT							123													
325	SE A-1	LIVINGSTON AVE	1157+18, 41' RT							150			1											
325	IC-2	LIVINGSTON AVE	1157+18, 41' RT	1165+00, 43' RT						794	782							794						
325	IC-5	LIVINGSTON AVE	1157+18, 41' RT	1157+37, 44' LT																				
325	TC-1	LIVINGSTON AVE	1157+37, 44' LT																	2	1		1	
325	IC-6	LIVINGSTON AVE	1157+37, 44' LT	1157+53, 43' LT	16																			
325	IC-3	LIVINGSTON AVE	1161+25, 42' RT							150														
LIVINGSTON AVE. BETWEEN STA. 1165+00 AND 1176+25, INT 2018																								
326	IC-1	LIVINGSTON AVE	1165+00, 43' RT	1174+16, 44' RT						934	920							934						
326	IC-4	LIVINGSTON AVE	1171+28, 37' RT							150														
326	SE A-1	LIVINGSTON AVE	1174+16, 44' RT							225				1										
326	IC-5	LIVINGSTON AVE	1174+16, 44' RT	1175+21, 64' RT						196														
326	IC-6	LIVINGSTON AVE	1174+16, 44' RT	1175+25, 79' RT												2								
326	IC-2	LIVINGSTON AVE	1174+16, 44' RT	1176+25, 37' RT						208	205							208						
326	IC-7	LIVINGSTON AVE	1175+21, 64' RT	1175+25, 79' RT	15							15												
326	TC-1	LIVINGSTON AVE	1175+25, 79' RT																	3	1	1		
326	IC-3	LIVINGSTON AVE	1175+30, 108' RT	1175+60, 36' RT						94								94						
LIVINGSTON AVE. BETWEEN STA. 1176+25 AND 1197+50																								
329	IC-1	LIVINGSTON AVE	1176+25, 37' RT	1197+50, 20' RT						2157	2125							2157						
329	IC-2	LIVINGSTON AVE	1186+26, 23' RT							150														
329	IC-3	LIVINGSTON AVE	1195+30, 21' RT							150														
LIVINGSTON AVE. BETWEEN STA. 1197+50 AND 1208+50, INT 2019																								
330	IC-1	LIVINGSTON AVE	1197+50, 20' RT	1199+63, 22' RT						216	213							216						
330	TC-1	LIVINGSTON AVE	1199+05, 24' RT																	2	1	1		
330	IC-4	LIVINGSTON AVE	1199+05, 24' RT	1199+63, 22' RT											1			57						
330	SE A-1	LIVINGSTON AVE	1199+63, 22' RT							150			1											
330	IC-2	LIVINGSTON AVE	1199+63, 22' RT	1208+50, 24' RT						900	887							900						
330	IC-3	LIVINGSTON AVE	1205+72, 25' RT							150														
SHEET TOTAL					45	666	2	333	2	9392	6271	29	3	1	3	2		6613	4	1	9	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

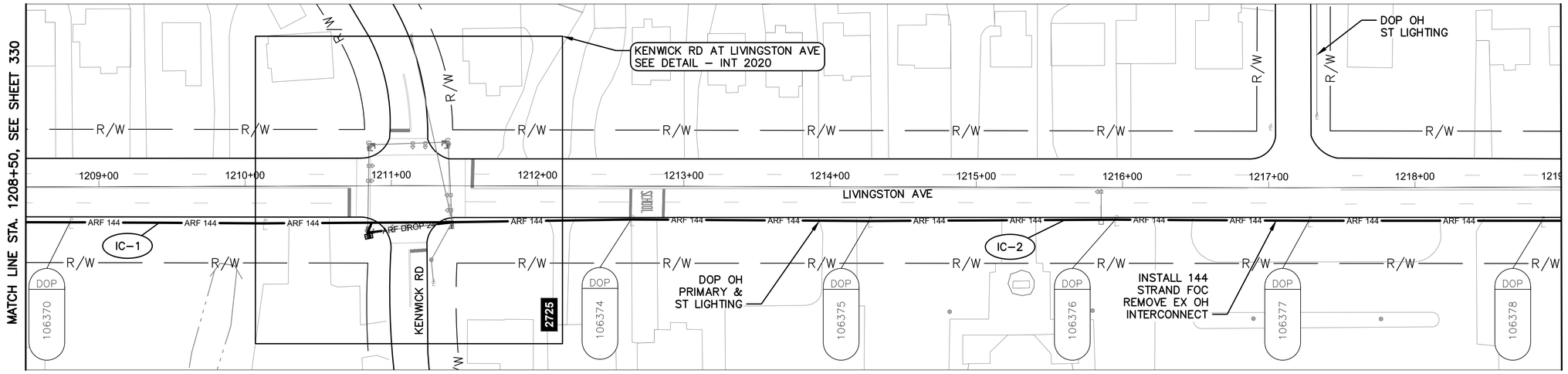
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1148+00 & 1208+50
INTS 2000, 2017, 2018, 2019

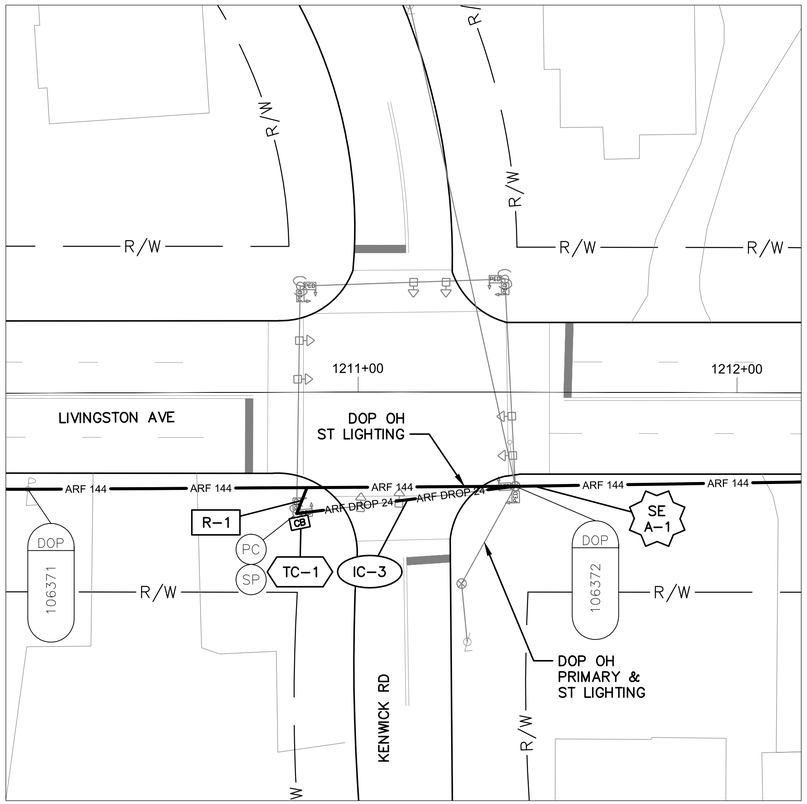
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

331
911

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LIVINGSTON AVE BETWEEN STATION 1208+50 AND 1219+00



DETAIL - INT 2020

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 337 FOR QUANTITIES.
2. SEE SHEETS 612 & 759 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

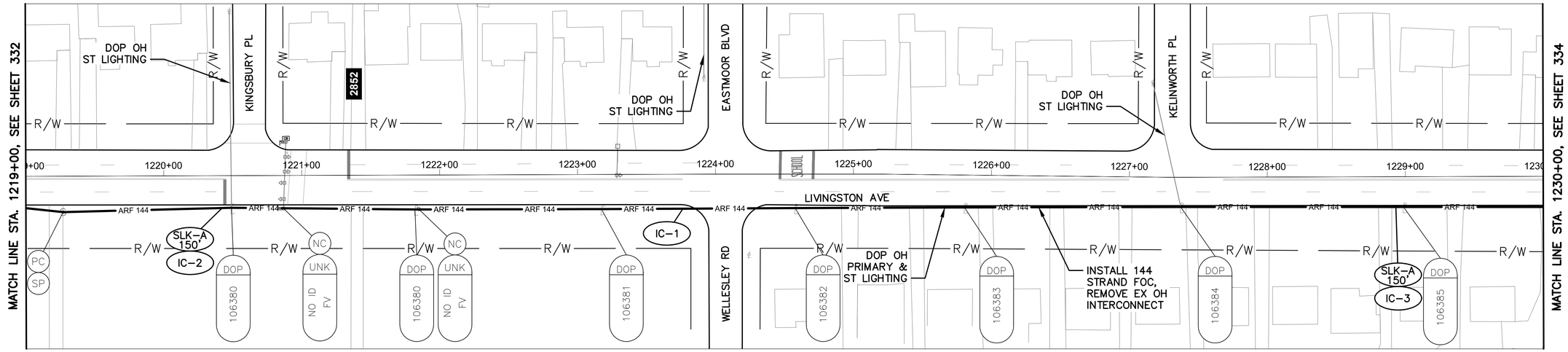
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1208+50 AND 1219+00, INT 2020

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

332
911

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LIVINGSTON AVE BETWEEN STATION 1219+00 AND 1230+00

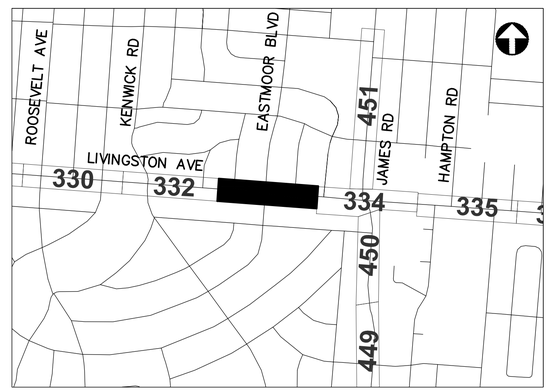
NOTES:

1. SEE SHEET 337 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.
3. NEW MESSENGER WILL ATTACH ON WEST SIDE OF POLE "DOP–106381" BETWEEN STA. 1221+82, 25' RT AND STA. 1223+17, 25' RT AT A HEIGHT EQUAL TO EXISTING MESSENGER TO THE EAST.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

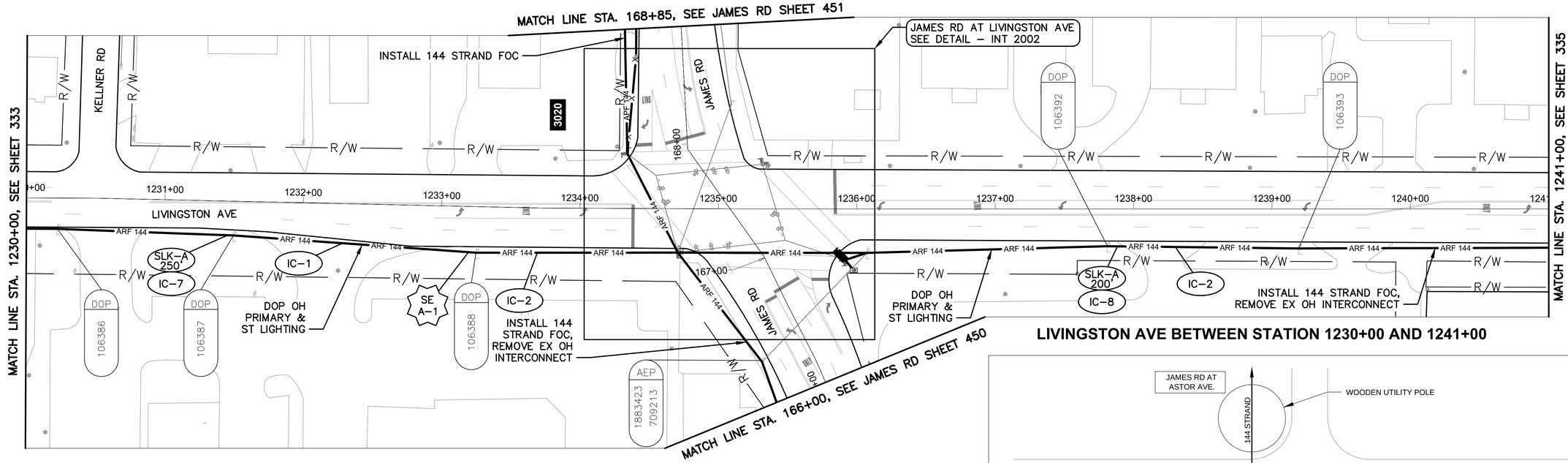
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1219+00 AND 1230+00

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

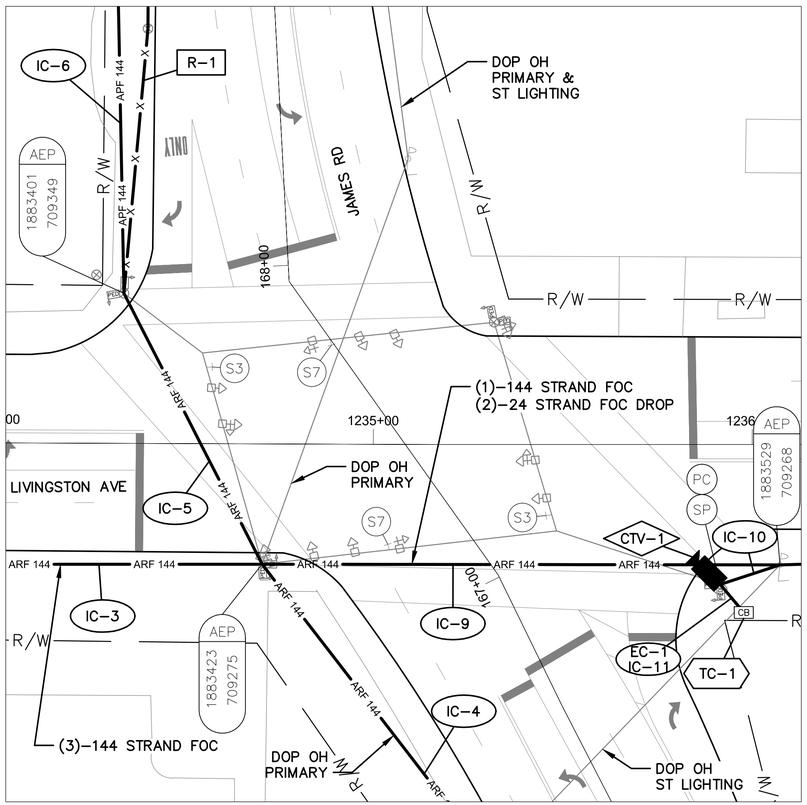
333
911

2953-E

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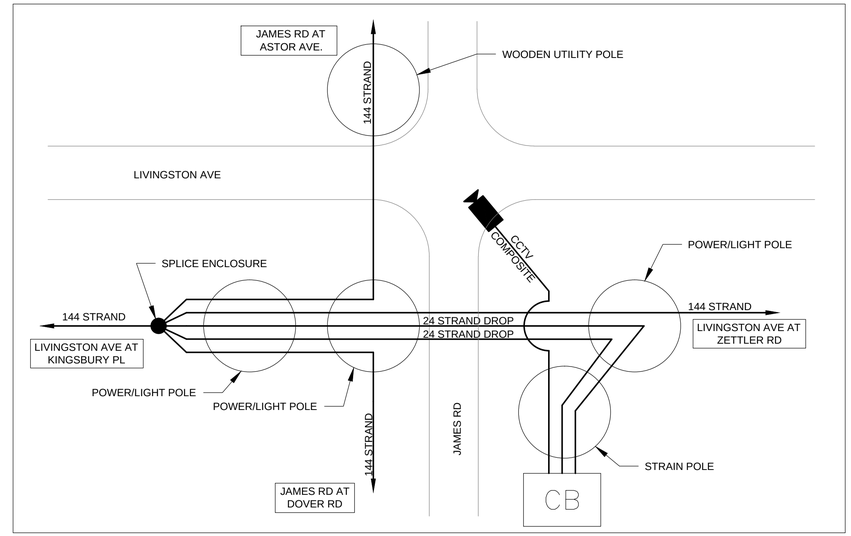


LIVINGSTON AVE BETWEEN STATION 1230+00 AND 1241+00



DETAIL - INT 2002

0 20 40
HORIZONTAL SCALE IN FEET

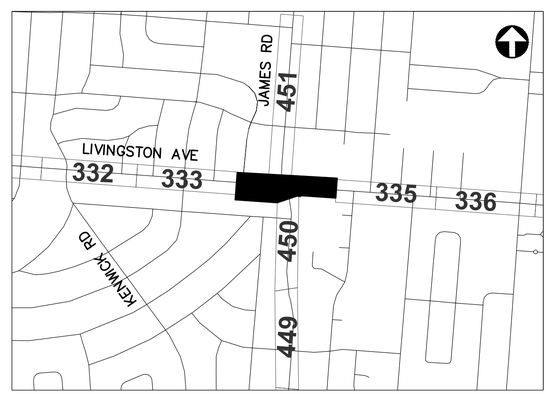


CABLE SCHEMATIC

NOT TO SCALE

NOTES:

1. SEE SHEET 337 FOR QUANTITIES.
2. SEE SHEETS 613 & 760 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2002, PROVIDE 75' OF SLACK FROM ALL FOUR DIRECTIONS FOR THE 300' TOTAL.



REFER TO SHEET 271 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

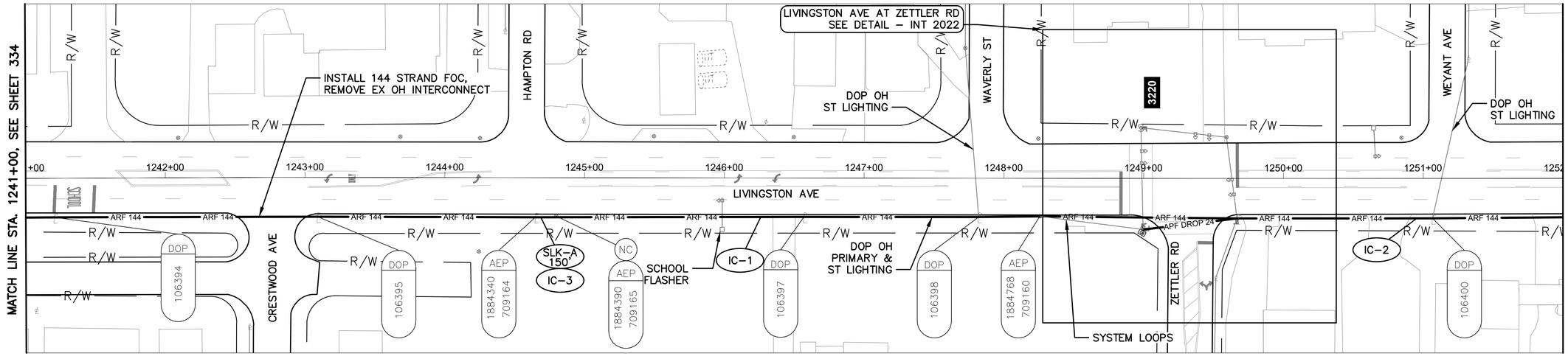
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1230+00 AND 1241+00, INT 2002

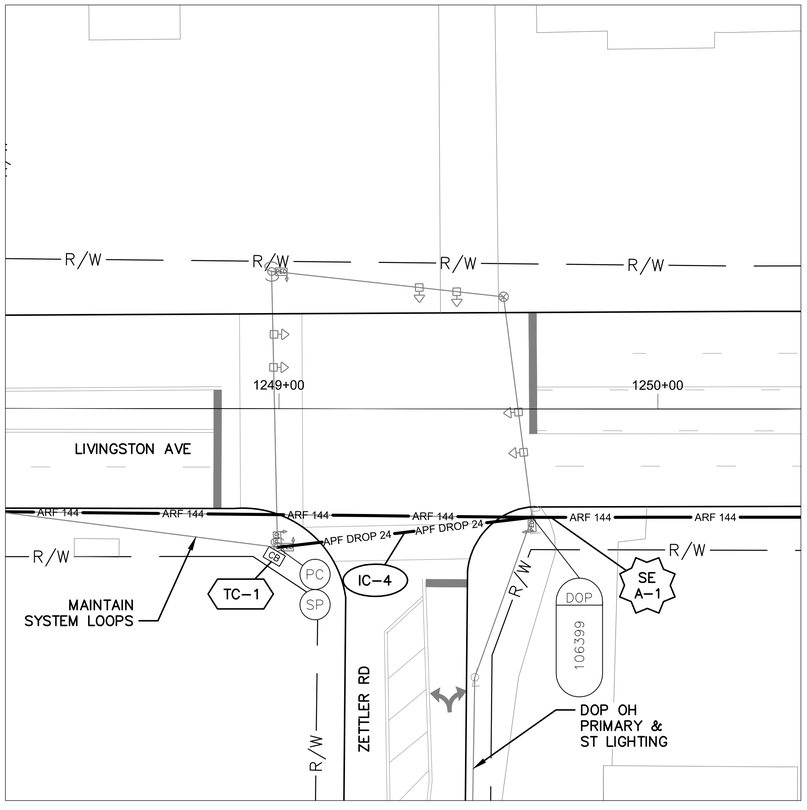
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

334
911

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LIVINGSTON AVE BETWEEN STATION 1241+00 AND 1252+00



DETAIL - INT 2022

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 337 FOR QUANTITIES.
2. SEE SHEETS 613 & 761 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

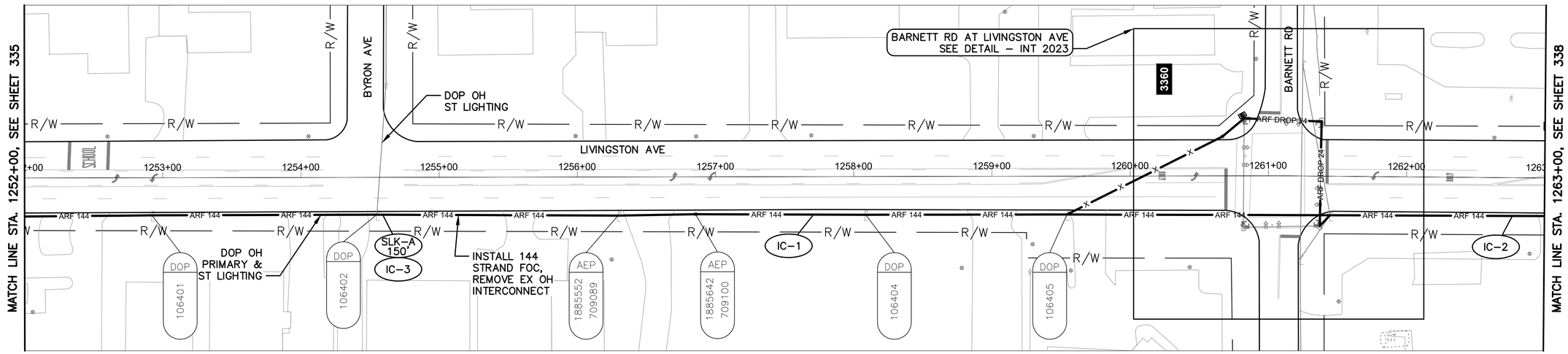
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1241+00 AND 1252+00, INT 2022

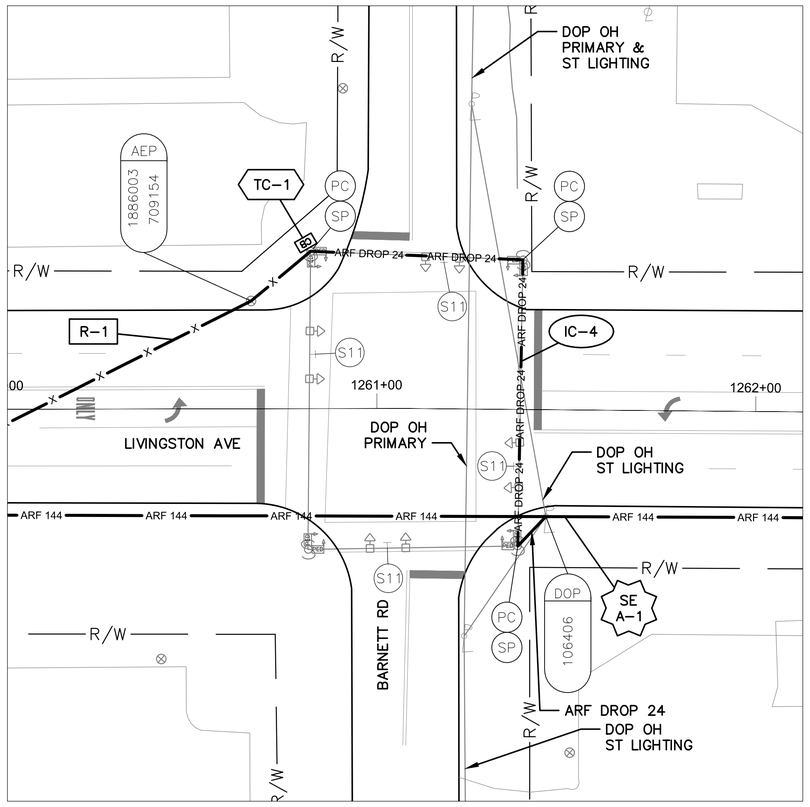
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

335
911

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LIVINGSTON AVE BETWEEN STATION 1252+00 AND 1263+00



DETAIL - INT 2023

NOTES:

1. SEE SHEET 337 FOR QUANTITIES.
2. SEE SHEETS 613 & 762 FOR COMMUNICATION DETAILS.
3. ATTACH NEW FOC DROP ABOVE SIGNAL SPAN AT SOUTHEAST CORNER OF LIVINGSTON AND BARNETT

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 273 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
LIVINGSTON AVE BETWEEN STA. 1252+00 AND 1263+00, INT 2023

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

336
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						
					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/ 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 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						
LIVINGSTON AVE. BETWEEN STA. 1208+50 AND 1219+00, INT 2020																							
332	IC-1	LIVINGSTON AVE	1208+50, 24' RT	1211+41, 25' RT		296	292					296											
332	TC-1	LIVINGSTON AVE	1210+83, 32' RT												2	1		1					
332	R-1	LIVINGSTON AVE	1210+83, 32' RT	1210+86, 25' RT			7																
332	IC-3	LIVINGSTON AVE	1210+83, 32' RT	1211+41, 25' RT			58			1		59											
332	SE A-1	LIVINGSTON AVE	1211+41, 25' RT			150		1															
332	IC-2	LIVINGSTON AVE	1211+41, 25' RT	1219+00, 23' RT		770	759					770											
LIVINGSTON AVE. BETWEEN STA. 1219+00 AND 1230+00																							
333	IC-1	LIVINGSTON AVE	1219+00, 23' RT	1230+00, 22' RT		1117	1100					1117											
333	IC-2	LIVINGSTON AVE	1220+42, 23' RT			150																	
333	IC-3	LIVINGSTON AVE	1228+93, 22' RT			150																	
LIVINGSTON AVE. BETWEEN STA. 1230+00 AND 1241+00, INT 2002																							
334	IC-1	LIVINGSTON AVE	1230+00, 22' RT	1233+26, 33' RT		330	325					330											
334	IC-7	LIVINGSTON AVE	1231+46, 25' RT			250																	
334	SE A-1	LIVINGSTON AVE	1233+26, 33' RT			300			1														
334	IC-9	LIVINGSTON AVE	1233+26, 33' RT	1235+91, 37' RT							2												
334	IC-2	LIVINGSTON AVE	1233+26, 33' RT	1241+00, 28' RT		787	775					787											
334	IC-3	LIVINGSTON AVE	1233+26, 33' RT	1234+70, 32' RT		296																	
334	IC-6	LIVINGSTON AVE	1234+31, 129' LT	1234+34, 40' LT		91						91											
334	R-1	LIVINGSTON AVE	1234+34, 40' LT	1234+40, 130' LT			90																
334	IC-5	LIVINGSTON AVE	1234+34, 40' LT	1234+70, 32' RT		81	80					81											
334	IC-4	LIVINGSTON AVE	1234+70, 32' RT	1235+42, 140' RT		133	131					133											
334	CTV-1	LIVINGSTON AVE	1235+91, 37' RT										35	1									
334	EC-1	LIVINGSTON AVE	1235+91, 37' RT	1235+97, 44' RT									10										
334	IC-11	LIVINGSTON AVE	1235+91, 37' RT	1235+97, 44' RT	10																		
334	IC-10	LIVINGSTON AVE	1235+91, 37' RT	1236+07, 32' RT								17											
334	TC-1	LIVINGSTON AVE	1235+97, 44' RT										10		4	1	1						
334	IC-8	LIVINGSTON AVE	1237+88, 27' RT			200																	
LIVINGSTON AVE. BETWEEN STA. 1241+00 AND 1252+00, INT 2022																							
335	IC-1	LIVINGSTON AVE	1241+00, 28' RT	1249+66, 29' RT		880	867					880											
335	IC-3	LIVINGSTON AVE	1244+68, 28' RT			150																	
335	TC-1	LIVINGSTON AVE	1248+99, 37' RT												2	1	1						
335	IC-4	LIVINGSTON AVE	1248+99, 37' RT	1249+66, 29' RT						1		69											
335	SE A-1	LIVINGSTON AVE	1249+66, 29' RT			150		1															
335	IC-2	LIVINGSTON AVE	1249+66, 29' RT	1252+00, 28' RT		236	233					236											
LIVINGSTON AVE. BETWEEN STA. 1252+00 AND 1263+00, INT 2023																							
336	IC-1	LIVINGSTON AVE	1252+00, 28' RT	1261+44, 28' RT		959	945					959											
336	IC-3	LIVINGSTON AVE	1254+59, 27' RT			150																	
336	R-1	LIVINGSTON AVE	1259+54, 28' RT	1260+82, 42' LT			146																
336	TC-1	LIVINGSTON AVE	1260+82, 42' LT												2	1		1					
336	IC-4	LIVINGSTON AVE	1260+82, 42' LT	1261+44, 28' RT			142			1		144											
336	SE A-1	LIVINGSTON AVE	1261+44, 28' RT			150		1															
336	IC-2	LIVINGSTON AVE	1261+44, 28' RT	1263+00, 28' RT		157	155					157											
SHEET TOTAL					10	7933	6105	3	1	3	2	6126	55	1	10	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

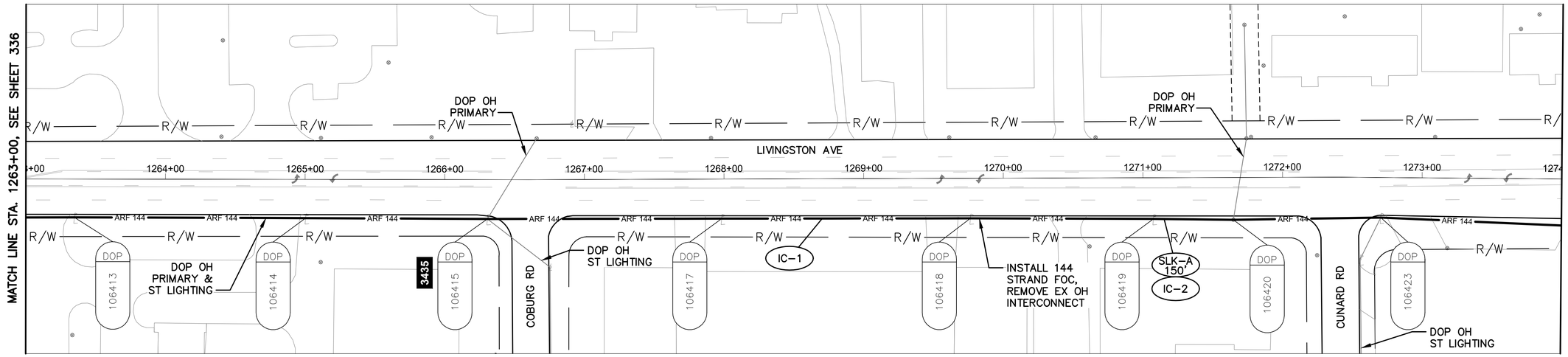
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1208+50 & 1263+00
INTS 2020, 2002, 2022, 2023

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

337
911

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LIVINGSTON AVE BETWEEN STATION 1263+00 AND 1274+00

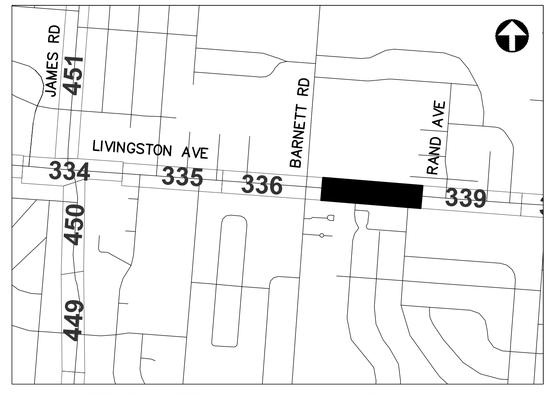
NOTES:

1. SEE SHEET 344 FOR QUANTITIES.
2. SEE SHEET 613 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

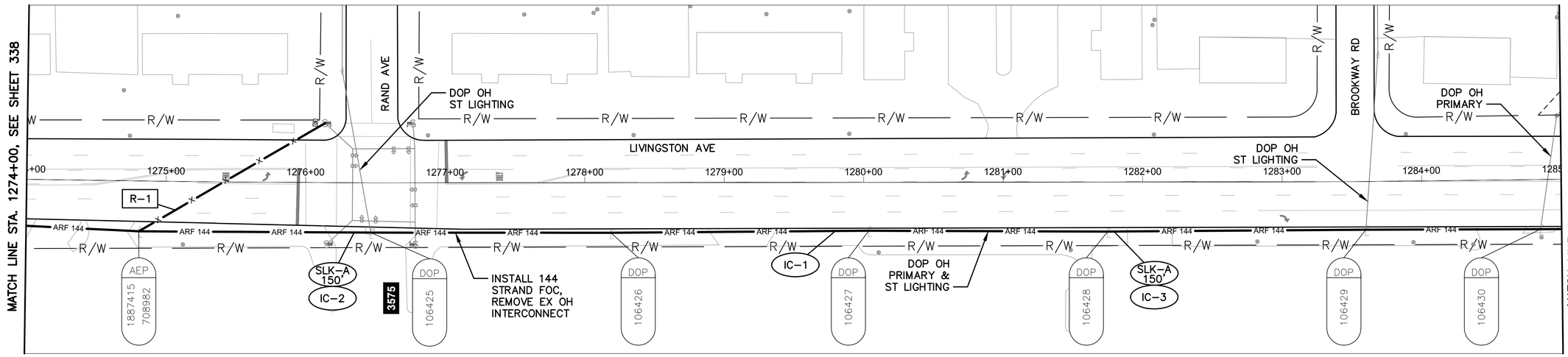
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1263+00 AND 1274+00

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

338
911

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LIVINGSTON AVE BETWEEN STATION 1274+00 AND 1285+00

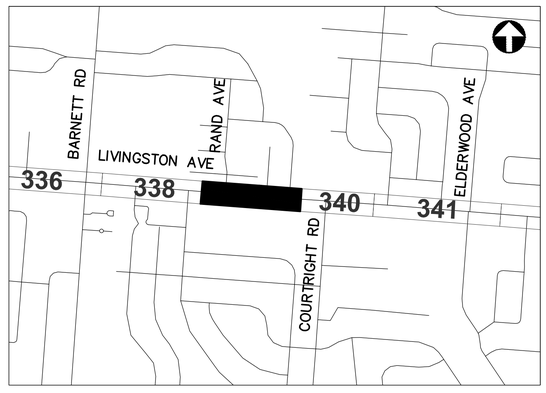
NOTES:

1. SEE SHEET 344 FOR QUANTITIES.
2. SEE SHEET 613 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

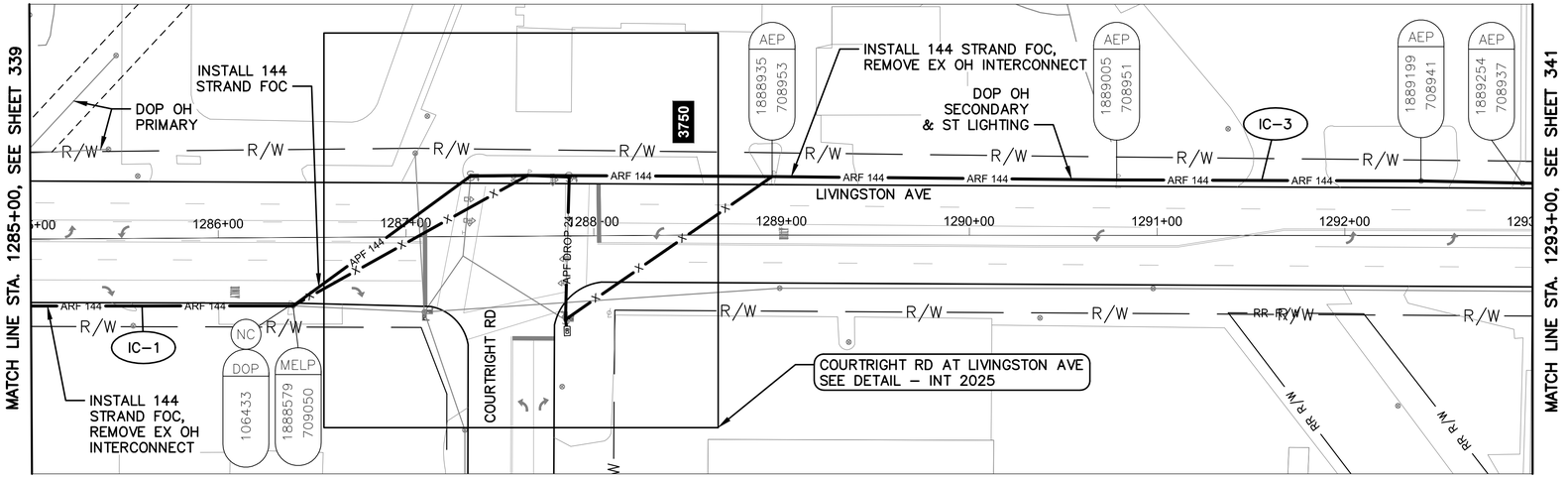
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1274+00 AND 1285+00

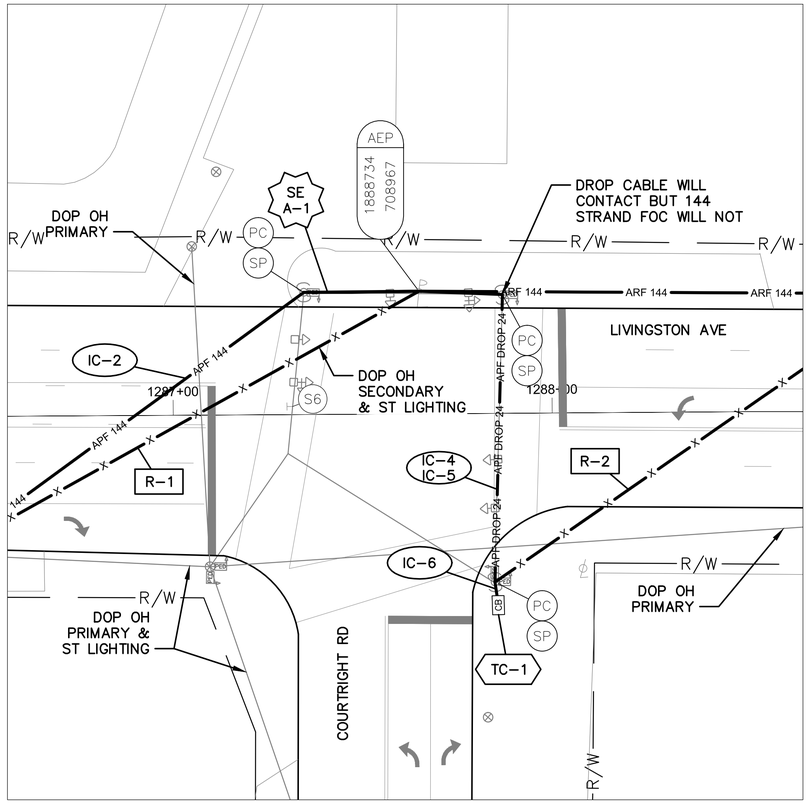
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

339
911

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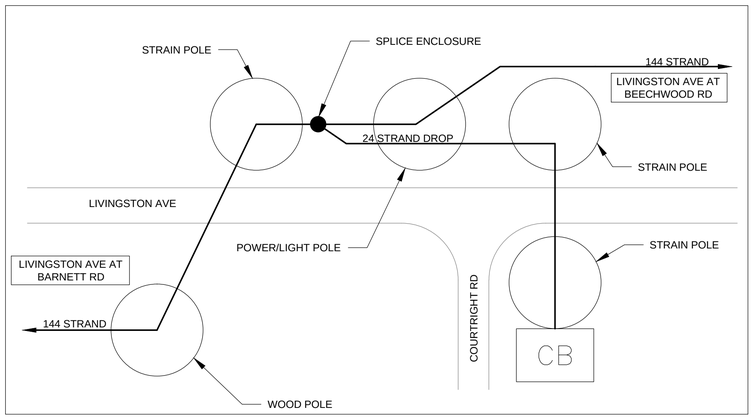


LIVINGSTON AVE BETWEEN STATION 1285+00 AND 1293+00



DETAIL - INT 2025

0 20 40
HORIZONTAL SCALE IN FEET



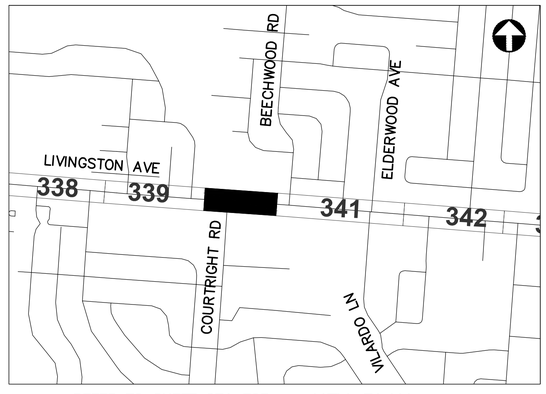
CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 344 FOR QUANTITIES.
2. SEE SHEETS 613 & 763 FOR COMMUNICATION DETAILS.
3. POLE CLAMPS ON SEC, NEC, & NWC OF INT 2025 TO BE INSTALLED ABOVE EXISTING SIGNAL SPAN.
4. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 2025 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

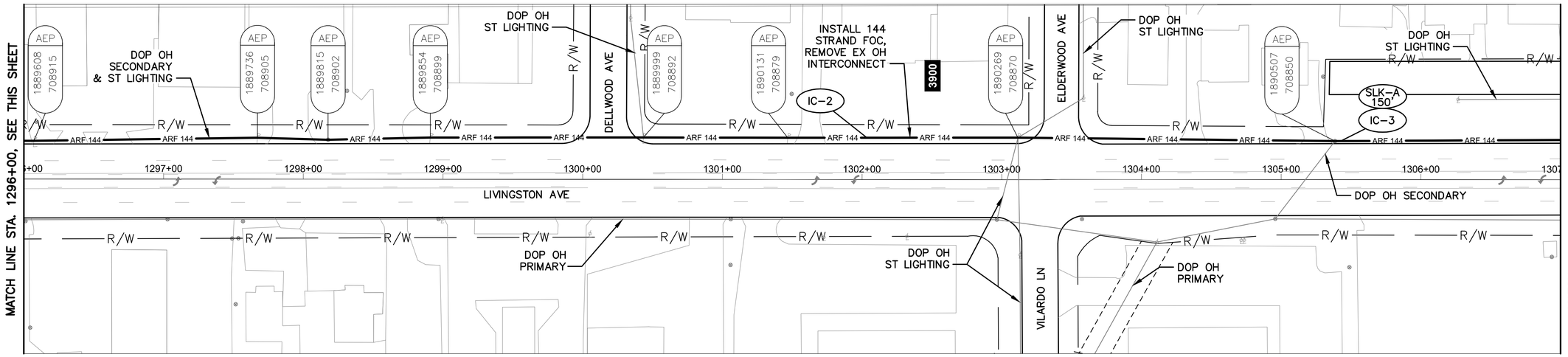
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1285+00 AND 1293+00, INT 2025

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

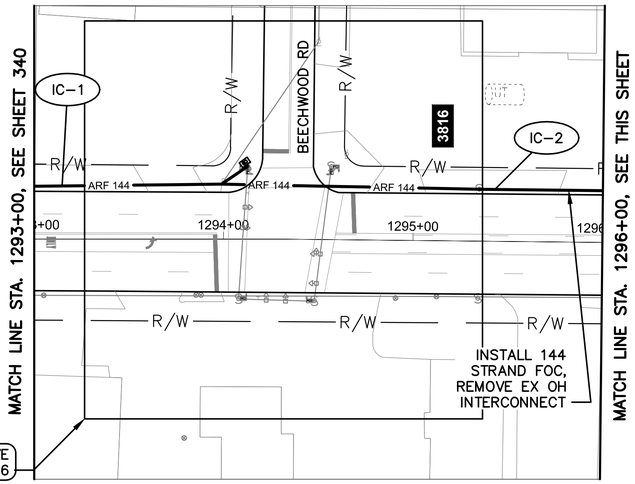
340
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1296+00 AND 1307+00



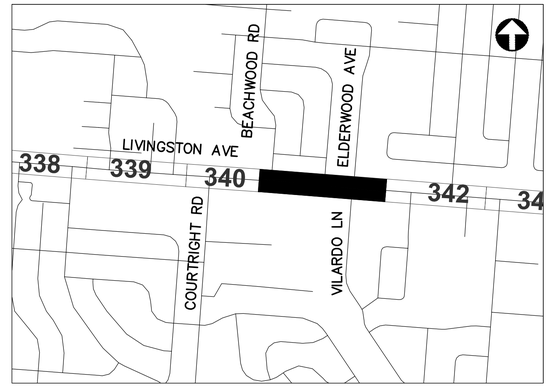
LIVINGSTON AVE BETWEEN STATION 1293+00 AND 1296+00

DETAIL - INT 2026

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 344 FOR QUANTITIES.
2. SEE SHEET 613 & 764 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

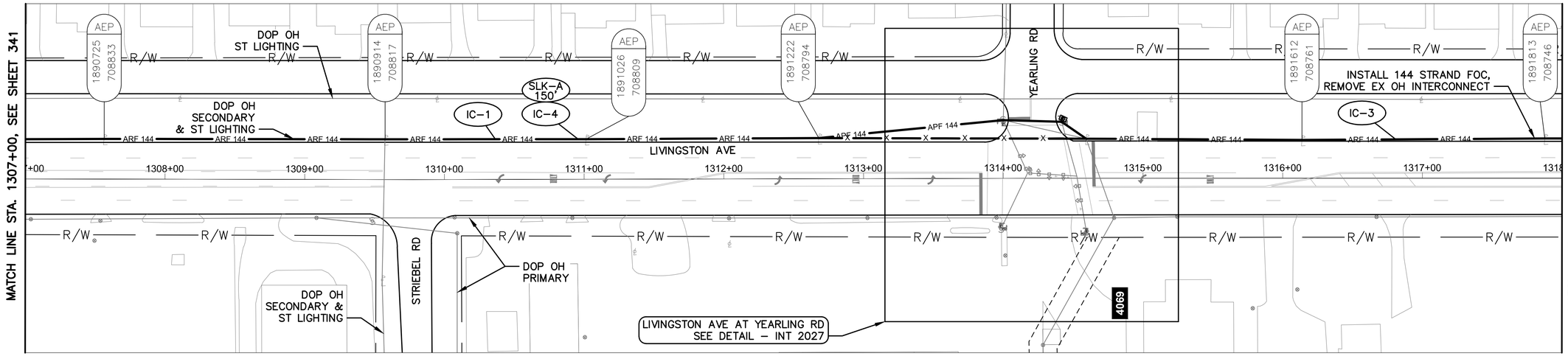
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1296+00 AND 1307+00, INT 2026

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

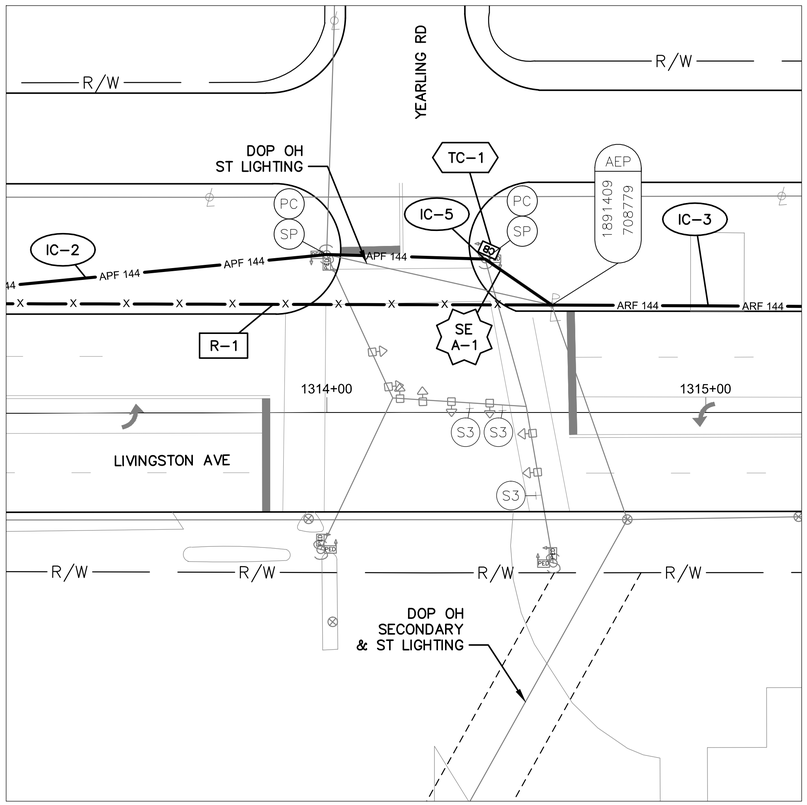
341
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2953-E

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LIVINGSTON AVE BETWEEN STATION 1307+00 AND 1318+00



DETAIL - INT 2027

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 344 FOR QUANTITIES.
2. SEE SHEETS 613 & 765 FOR COMMUNICATION DETAILS.
3. ATTACH NEW FOC ON NEC, NWC ABOVE EXISTING SIGNAL SPAN ATTACHMENT.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

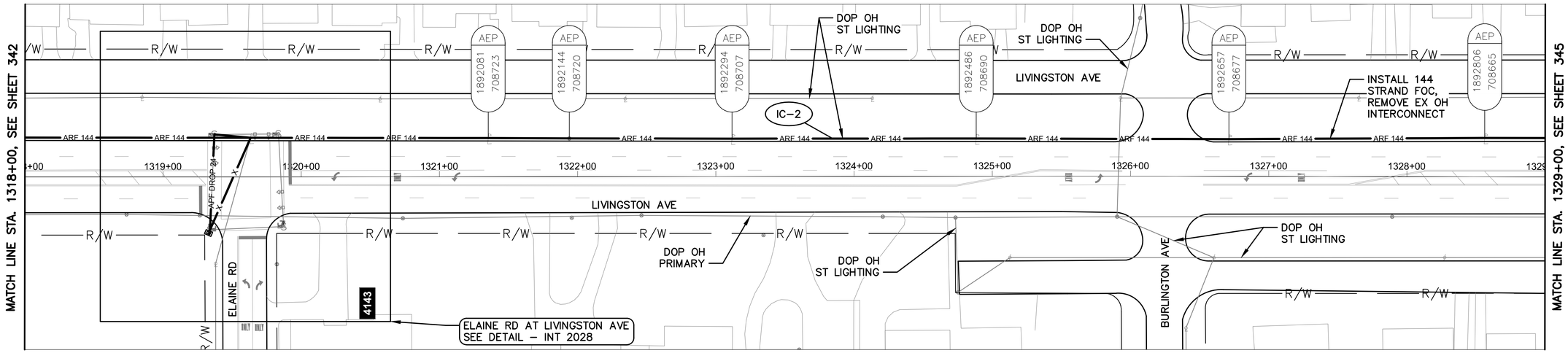
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1307+00 AND 1318+00, INT 2027

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

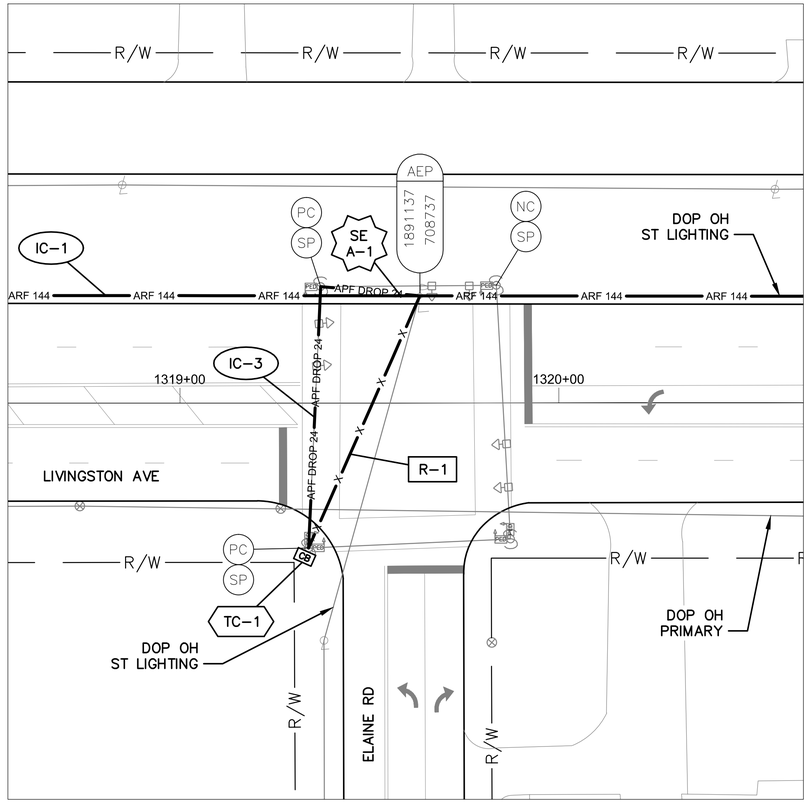
342
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1318+00 AND 1329+00



DETAIL - INT 2028

0 20 40
HORIZONTAL
SCALE IN FEET

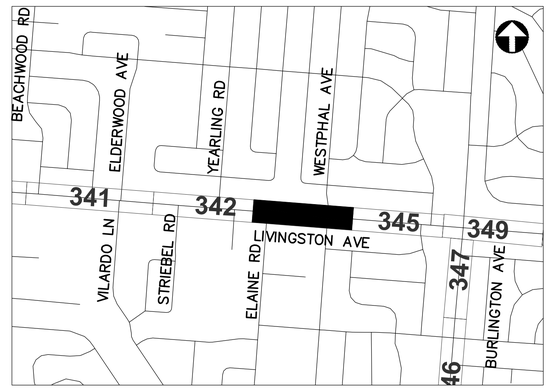
NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEETS 613 & 766 FOR COMMUNICATION DETAILS.
3. ATTACH NEW FOC PC ON NWC + SWC ABOVE EXISTING SIGNAL SPAN ATTACHMENT

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 271 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
LIVINGSTON AVE BETWEEN STA. 1318+00 AND 1329+00, INT 2028

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	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.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT 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)	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)
LIVINGSTON AVE. BETWEEN STA. 1263+00 AND 1274+00																	
338	IC-1	LIVINGSTON AVE	1263+00, 28' RT	1274+00, 33' RT		1117	1100						1117				
338	IC-2	LIVINGSTON AVE	1271+15, 30' RT			150											
LIVINGSTON AVE. BETWEEN STA. 1274+00 AND 1285+00																	
339	IC-1	LIVINGSTON AVE	1274+00, 33' RT	1285+00, 36' RT		1118	1101						1118				
339	R-1	LIVINGSTON AVE	1274+80, 36' RT	1276+13, 43' LT			154										
339	IC-2	LIVINGSTON AVE	1276+34, 36' RT			150											
339	IC-3	LIVINGSTON AVE	1281+79, 36' RT			150											
LIVINGSTON AVE. BETWEEN STA. 1285+00 AND 1293+00, INT 2025																	
340	IC-1	LIVINGSTON AVE	1285+00, 36' RT	1286+39, 36' RT		142	140						142				
340	IC-2	LIVINGSTON AVE	1286+39, 36' RT	1287+34, 32' LT		119							119				
340	R-1	LIVINGSTON AVE	1286+39, 36' RT	1287+65, 32' LT			143										
340	IC-4	LIVINGSTON AVE	1287+34, 32' LT	1287+84, 45' RT									130				
340	SE A-1	LIVINGSTON AVE	1287+34, 32' LT			300			1								
340	IC-5	LIVINGSTON AVE	1287+34, 32' LT	1287+85, 51' RT								1					
340	IC-3	LIVINGSTON AVE	1287+34, 32' LT	1293+00, 28' LT		575	566						575				
340	R-2	LIVINGSTON AVE	1287+84, 45' RT	1288+94, 31' LT			134										
340	IC-6	LIVINGSTON AVE	1287+84, 45' RT	1287+85, 51' RT	6			6									
340	TC-1	LIVINGSTON AVE	1287+85, 51' RT											2	1	1	
LIVINGSTON AVE. BETWEEN STA. 1293+00 AND 1307+00, INT 2026																	
341	IC-1	LIVINGSTON AVE	1293+00, 29' LT	1293+98, 29' LT		100	99						100				
341	SE A-1	LIVINGSTON AVE	1293+98, 29' LT			150			1								
341	IC-4	LIVINGSTON AVE	1293+98, 29' LT	1294+12, 38' LT			17				1		17				
341	IC-2	LIVINGSTON AVE	1293+98, 29' LT	1307+00, 28' LT		1321	1301						1321				
341	TC-1	LIVINGSTON AVE	1294+12, 38' LT											2	1	1	
341	IC-3	LIVINGSTON AVE	1305+42, 28' LT			150											
LIVINGSTON AVE. BETWEEN STA. 1307+00 AND 1318+00, INT 2027																	
342	IC-1	LIVINGSTON AVE	1307+00, 28' LT	1312+68, 29' LT		577	568						577				
342	IC-4	LIVINGSTON AVE	1310+95, 29' LT			150											
342	IC-2	LIVINGSTON AVE	1312+68, 29' LT	1314+41, 40' LT		177							177				
342	R-1	LIVINGSTON AVE	1312+68, 29' LT	1314+59, 28' LT			191										
342	SE A-1	LIVINGSTON AVE	1314+41, 40' LT			150			1								
342	IC-5	LIVINGSTON AVE	1314+41, 40' LT	1314+41, 40' LT						1							
342	TC-1	LIVINGSTON AVE	1314+41, 40' LT											2	1	1	
342	IC-3	LIVINGSTON AVE	1314+41, 40' LT	1318+00, 28' LT		367	362						367				
LIVINGSTON AVE. BETWEEN STA. 1318+00 AND 1329+00, INT 2028																	
343	IC-1	LIVINGSTON AVE	1318+00, 28' LT	1319+63, 28' LT		165	163						165				
343	IC-3	LIVINGSTON AVE	1319+33, 38' RT	1319+63, 28' LT							1		97				
343	R-1	LIVINGSTON AVE	1319+33, 38' RT	1319+63, 28' LT			73										
343	TC-1	LIVINGSTON AVE	1319+33, 38' RT											2	1	1	
343	SE A-1	LIVINGSTON AVE	1319+63, 28' LT			150			1								
343	IC-2	LIVINGSTON AVE	1319+63, 28' LT	1329+00, 28' LT		951	937						951				
SHEET TOTAL					6	8229	7049	6	4	1	2	1	6973	8	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

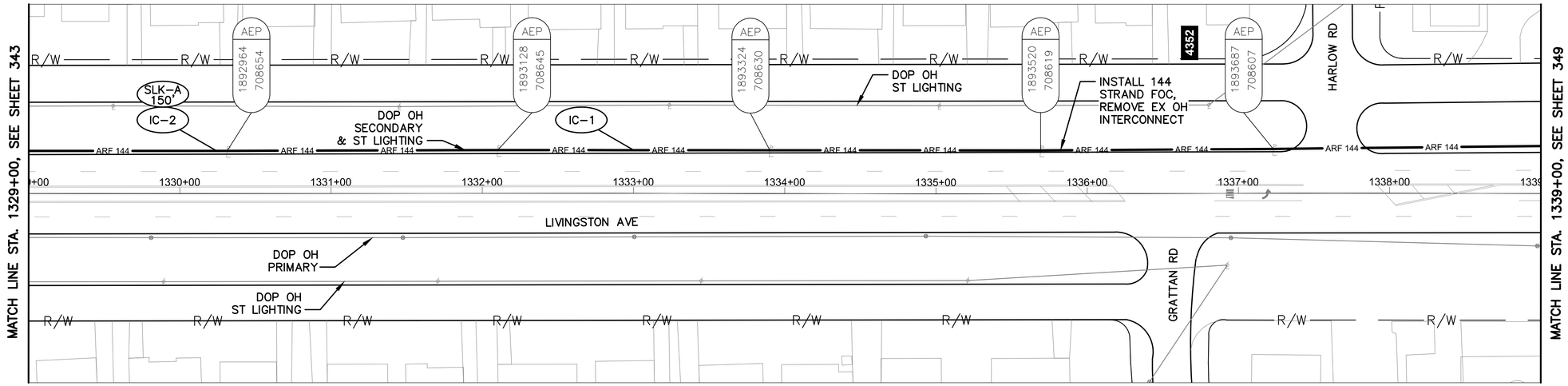
CIP: 540007–100005
PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1263+00 & 1329+00
INTS 2025, 2026, 2027, 2028

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

344
911

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LIVINGSTON AVE BETWEEN STATION 1329+00 AND 1339+00

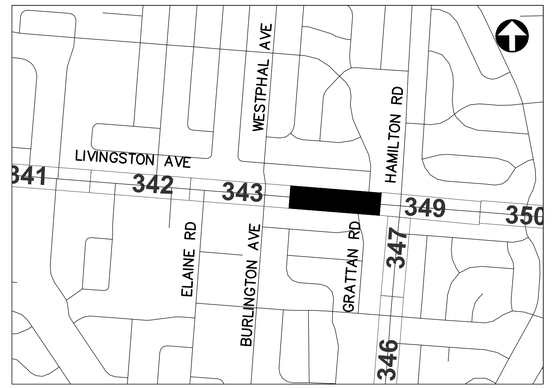
NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEET 613 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

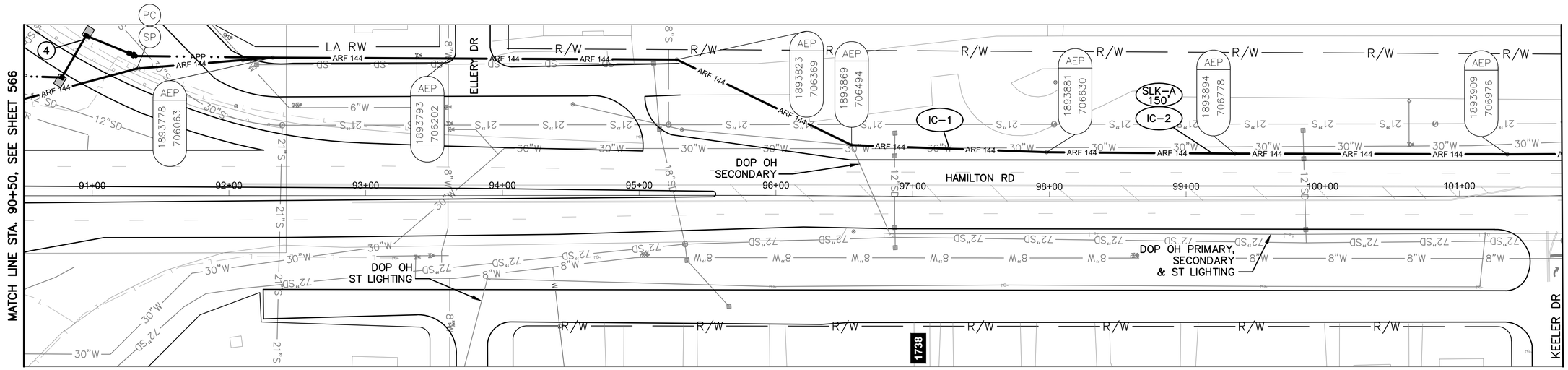
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1329+00 AND 1339+00

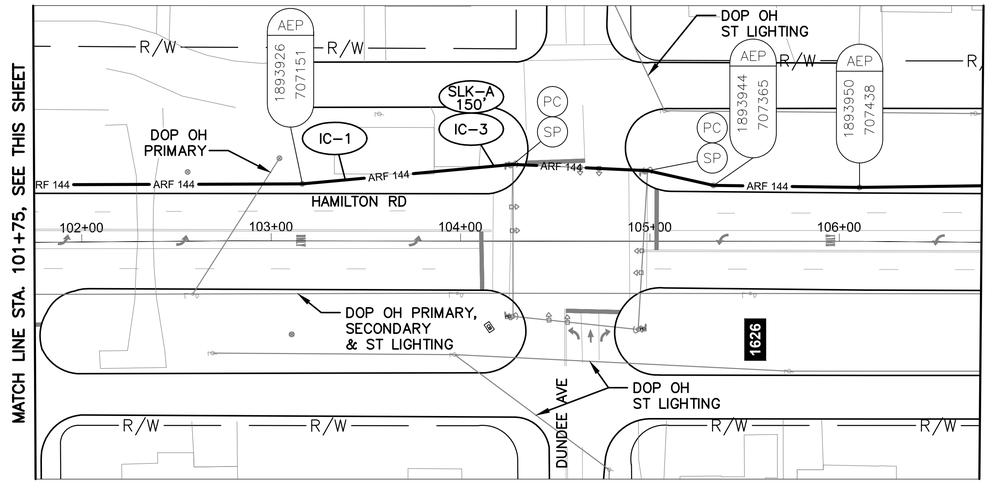
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

345
911

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HAMILTON RD BETWEEN STATION 90+50 AND 101+75



HAMILTON RD BETWEEN STATION 101+75 AND 106+75

NOTES:

1. SEE SHEET 348 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.
3. SEE SHEET 296 FOR POWER SERVICE DETAILS.
4. SEE SHEET 566 FOR UTILITY CROSSINGS 1–3.
5. FROM STATION 90+50 TO STATION 104+30, ARF 144 WILL REPLACE EXISTING COAX INTERCONNECT. TWISTED PAIR INTERCONNECT WILL REMAIN. EXISTING INTERCONNECT IS ON 2 SEPARATE MESSENGER WIRES.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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 9 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

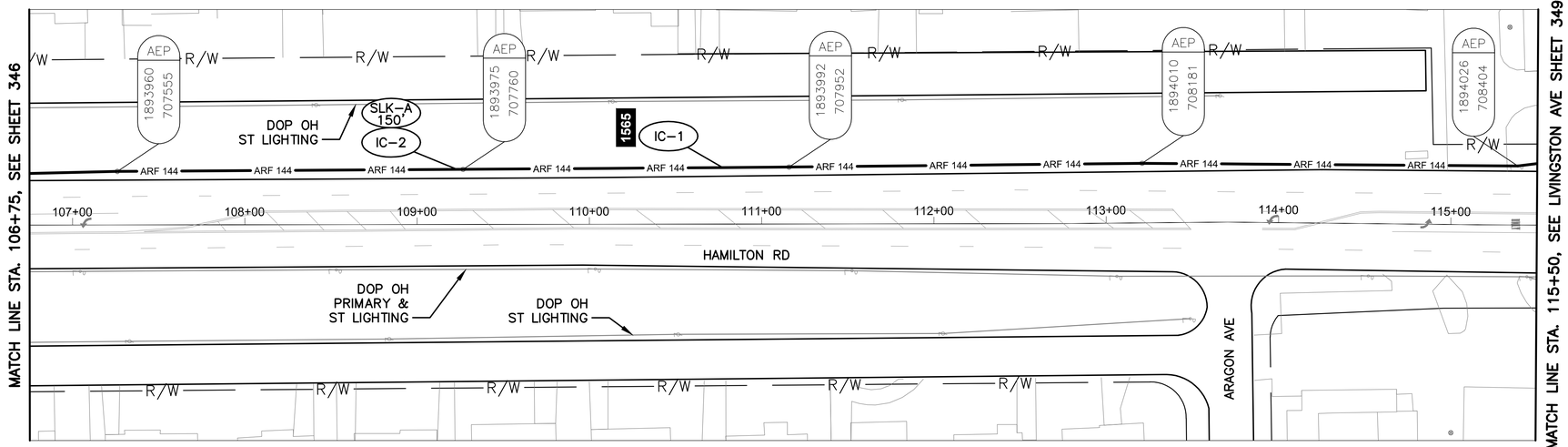
INTERCONNECT PLAN
HAMILTON RD BETWEEN STA. 90+50 AND 106+75

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

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911

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HAMILTON RD BETWEEN STATION 106+75 AND 115+50

NOTES:

1. SEE SHEET 348 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 9 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
HAMILTON RD BETWEEN STA. 106+75 AND 115+50

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

347
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.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES																
			FROM	TO	FT	FT	FT																
HAMILTON RD. BETWEEN STA. 90+50 AND 106+75																							
346	IC-1	HAMILTON RD	90+50, 64' LT	106+75, 30' LT	1672	1647	1672																
346	IC-2	HAMILTON RD	99+20, 32' LT		150																		
346	IC-3	HAMILTON RD	104+27, 41' LT		150																		
HAMILTON RD. BETWEEN STA. 106+75 AND 115+50																							
347	IC-1	HAMILTON RD	106+75, 30' LT	115+50, 36' LT	888	875	888																
347	IC-2	HAMILTON RD	109+23, 32' LT		150																		
SHEET TOTAL					3010	2522	2560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

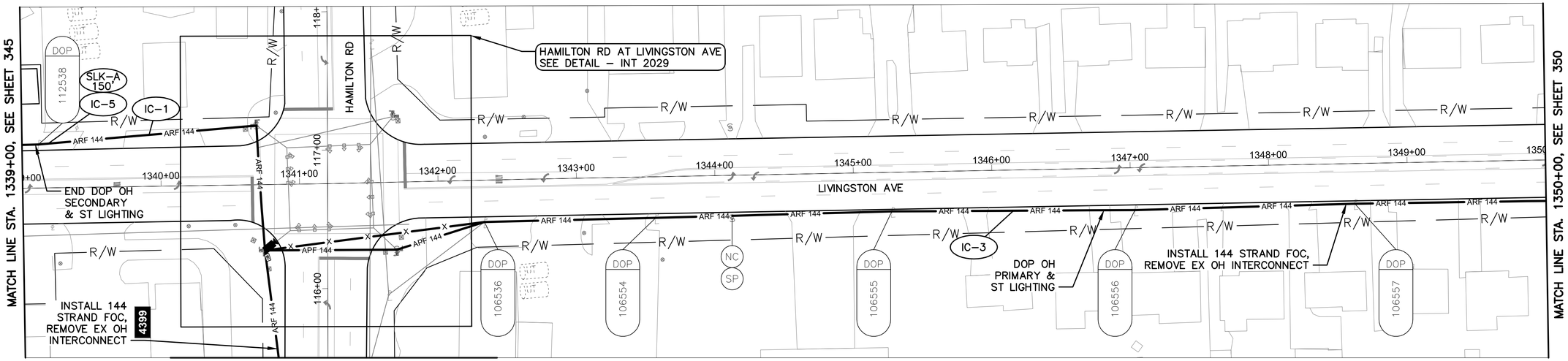
CIP: 540007–100005
PID NUMBER: 14522

HAMILTON RD. BTW STA. 90+50 & 115+50

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

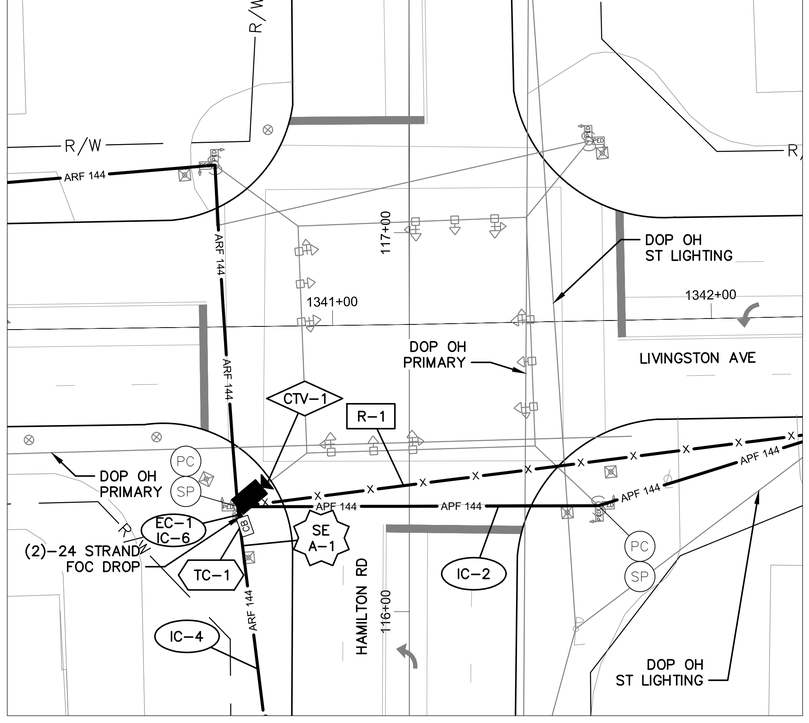
348
911

J:\Jobs\50806\TECHPROJ\Sheets\CTSS_PhC_HAMILTON___INTERCONNECT_QUANTITIES.dwg ~ HAMILTON layout ~ last saved by: rrapp 10/17/2014 08:18am ~ printed 05/08/2017 09:55pm



MATCH LINE STA. 115+50, SEE HAMILTON RD SHEET 347

LIVINGSTON AVE BETWEEN STATION 1339+00 AND 1350+00



DETAIL - INT 2029

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEETS 613 & 767 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2029, 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

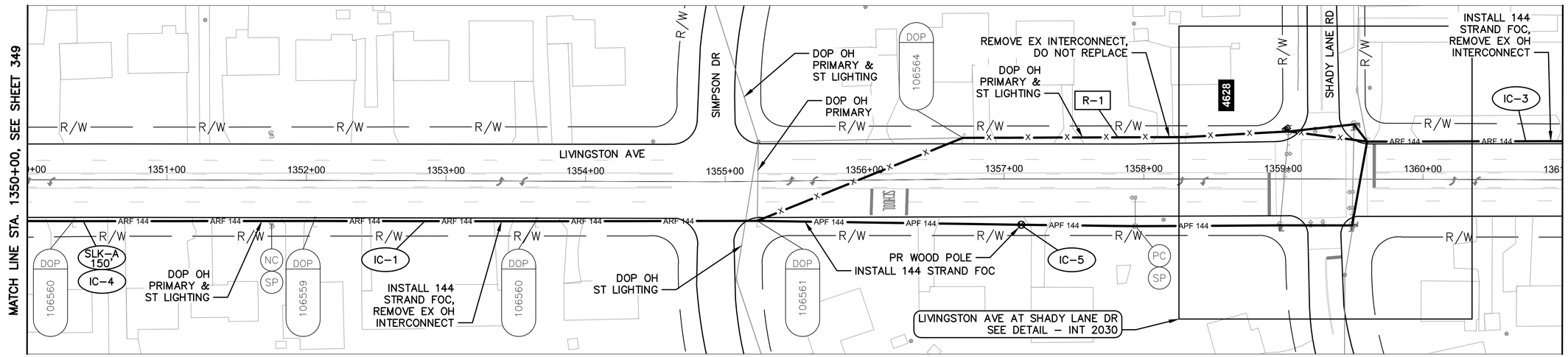
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1339+00 AND 1350+00, INT 2029

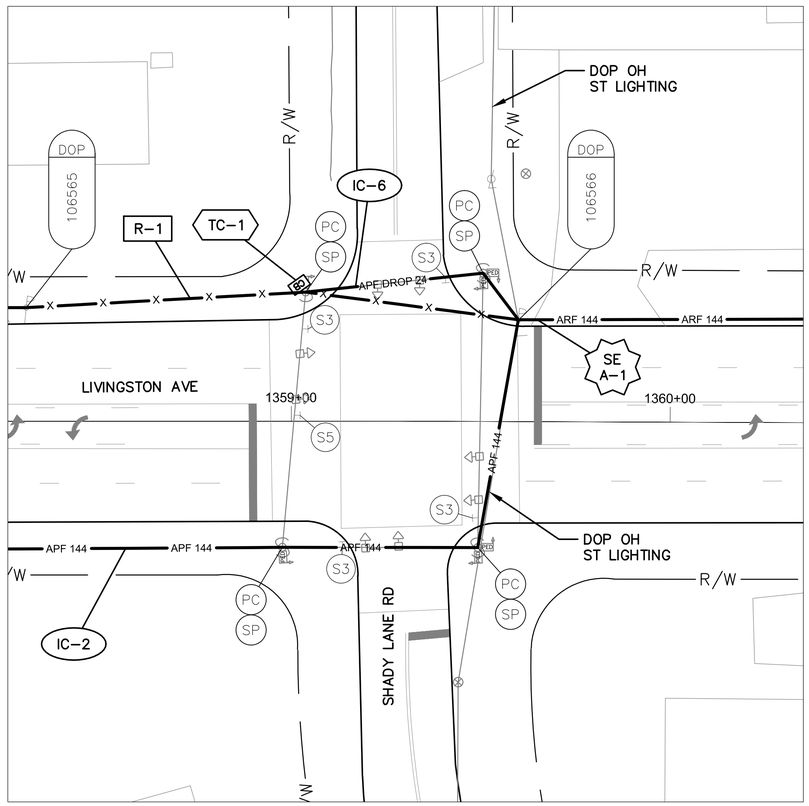
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

349
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_C1_INTERCONNECT.dwg – LIVINGSTON 32 layout ~ last saved by: sdlowry 05/08/2017 04:57pm ~ printed 05/08/2017 09:55am



LIVINGSTON AVE BETWEEN STATION 1350+00 AND 1361+00



DETAIL - INT 2030

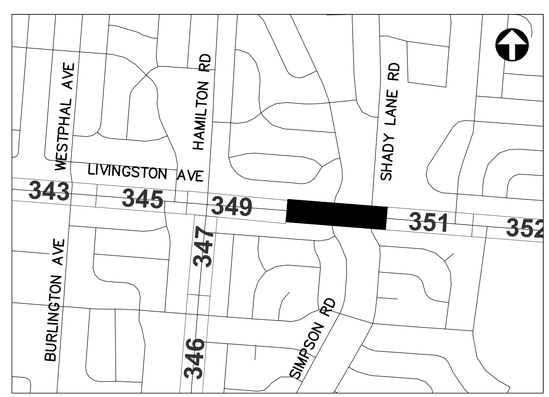
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEETS 614 & 768 FOR COMMUNICATION DETAILS.
3. ATTACH NEW FOC ON SP ABOVE EXISTING SIGNAL SPAN ATTACHMENTS.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

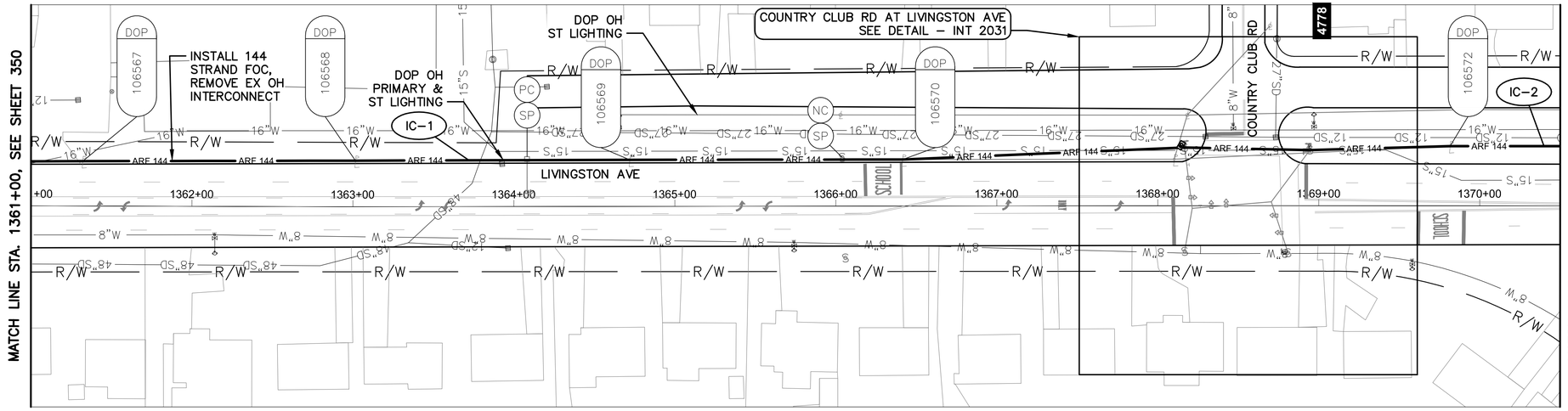
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1350+00 AND 1361+00, INT 2030

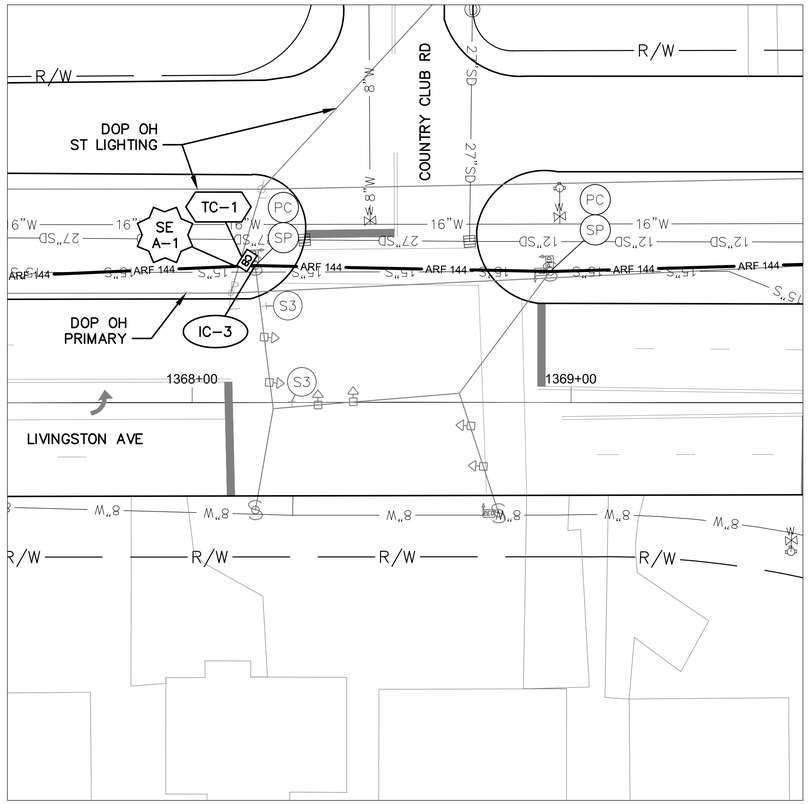
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

350
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_C1_INTERCONNECT1.dwg – LIVINGSTON 33 layout – last saved by: sdiowry 05/08/2017 04:57pm – printed 05/08/2017 09:56pm



LIVINGSTON AVE BETWEEN STATION 1361+00 AND 1370+50



DETAIL - INT 2031

0 20 40
HORIZONTAL SCALE IN FEET

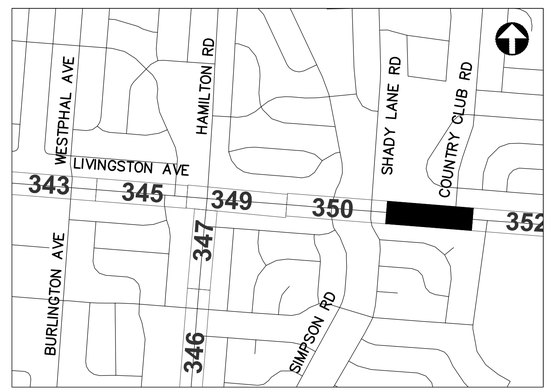
NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEETS 614 & 769 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

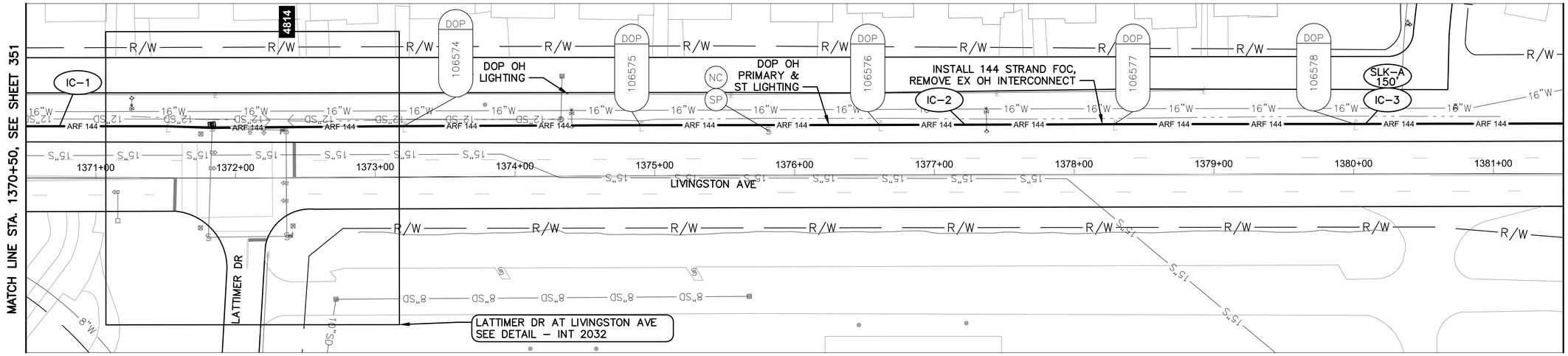
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1361+00 AND 1370+50, INT 2031

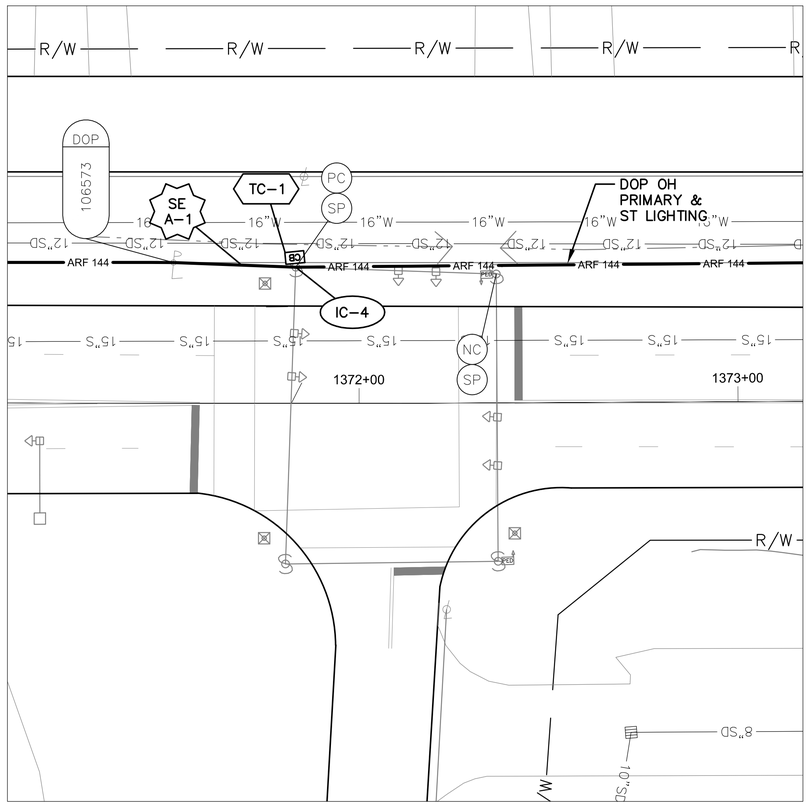
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

351
911

J:\Jobs\508086\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_C2_INTERCONNECT.dwg – LIVINGSTON 34 layout ~ last saved by: sdlowry 05/08/2017 04:59pm ~ printed 05/08/2017 09:57am



LIVINGSTON AVE BETWEEN STATION 1370+50 AND 1381+50



DETAIL - INT 2032

0 20 40
HORIZONTAL SCALE IN FEET

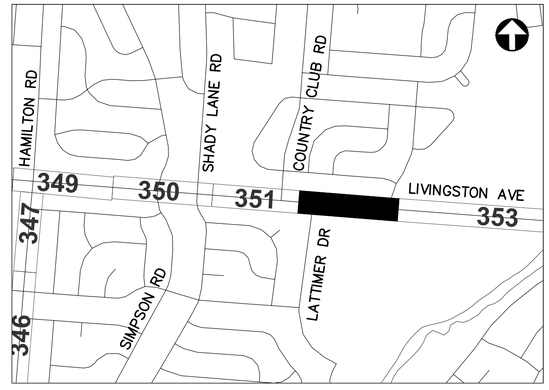
NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEETS 614 & 770 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

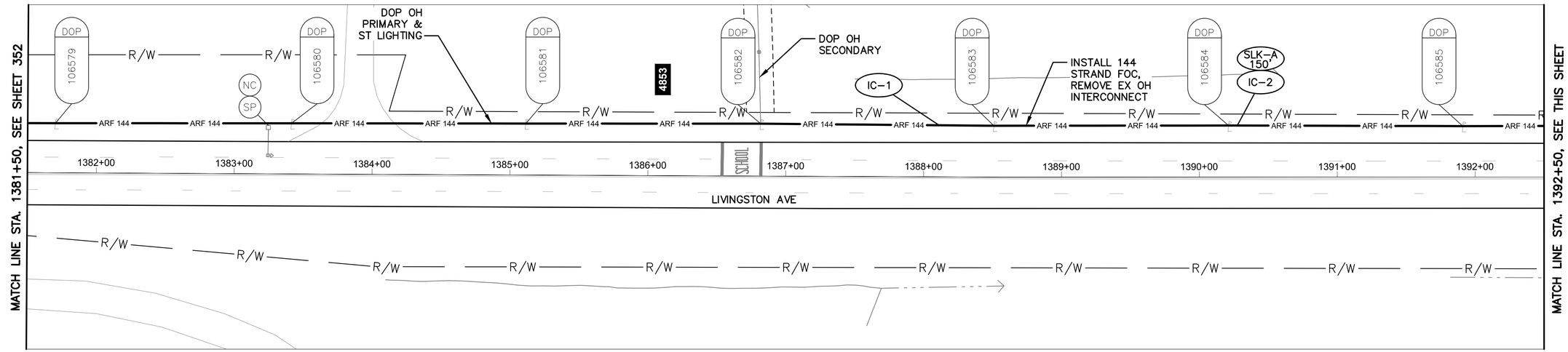
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PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1370+50 AND 1381+50, INT 2032

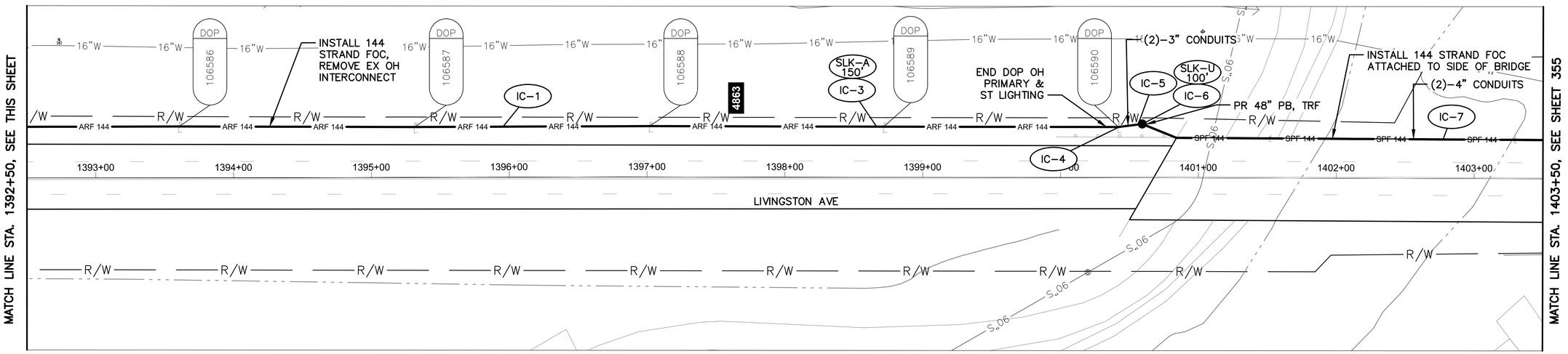
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

352
911

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LIVINGSTON AVE BETWEEN STATION 1381+50 AND 1392+50



LIVINGSTON AVE BETWEEN STATION 1392+50 AND 1403+50

NOTES:

1. SEE SHEET 354 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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
LIVINGSTON AVE BETWEEN STA. 1381+50+00 AND 1403+50

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

353
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	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, 2-3", 725.05, AS PER PLAN	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	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.: 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.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	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	EACH	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
LIVINGSTON AVE. BETWEEN STA. 1329+00 AND 1339+00																								
345	IC-1	LIVINGSTON AVE	1329+00, 28' LT	1339+00, 31' LT							1015	1000					1015							
345	IC-2	LIVINGSTON AVE	1330+24, 28' LT								150													
LIVINGSTON AVE. BETWEEN STA. 1339+00 AND 1350+00, INT 2029																								
349	IC-1	LIVINGSTON AVE	1339+00, 31' LT	1340+74, 48' RT							248	244					248							
349	IC-5	LIVINGSTON AVE	1339+18, 31' LT								150													
349	SE A-1	LIVINGSTON AVE	1340+74, 48' RT								225			1										
349	IC-6	LIVINGSTON AVE	1340+74, 48' RT	1340+76, 53' RT	5										2									
349	EC-1	LIVINGSTON AVE	1340+74, 48' RT	1340+76, 53' RT														5						
349	IC-4	LIVINGSTON AVE	1340+74, 48' RT	1340+83, 125' RT							79	78					79							
349	IC-2	LIVINGSTON AVE	1340+74, 48' RT	1342+32, 30' RT							164						164							
349	R-1	LIVINGSTON AVE	1340+74, 48' RT	1342+32, 30' RT								160												
349	CTV-1	LIVINGSTON AVE	1340+74, 48' RT															35	1					
349	TC-1	LIVINGSTON AVE	1340+76, 53' RT															10			2	1	1	
349	IC-3	LIVINGSTON AVE	1342+32, 30' RT	1350+00, 30' RT							779	767					779							
LIVINGSTON AVE. BETWEEN STA. 1350+00 AND 1361+00, INT 2030																								
350	IC-1	LIVINGSTON AVE	1350+00, 30' RT	1355+22, 28' RT							531	523					531							
350	IC-4	LIVINGSTON AVE	1350+40, 30' RT								150													
350	IC-2	LIVINGSTON AVE	1355+22, 28' RT	1359+59, 27' LT							494						494							
350	R-1	LIVINGSTON AVE	1355+22, 28' RT	1359+59, 27' LT								449												
350	IC-5	LIVINGSTON AVE	1357+12, 33' RT																1					
350	TC-1	LIVINGSTON AVE	1359+03, 34' LT																		2	1		1
350	IC-6	LIVINGSTON AVE	1359+03, 34' LT	1359+59, 27' LT												1	64							
350	SE A-1	LIVINGSTON AVE	1359+59, 27' LT								150		1											
350	IC-3	LIVINGSTON AVE	1359+59, 27' LT	1361+00, 28' LT							142	140					142							
LIVINGSTON AVE. BETWEEN STA. 1361+00 AND 1370+50, INT 2031																								
351	IC-1	LIVINGSTON AVE	1361+00, 28' LT	1368+16, 36' LT							728	717					728							
351	SE A-1	LIVINGSTON AVE	1368+16, 36' LT								150		1											
351	IC-3	LIVINGSTON AVE	1368+16, 36' LT	1368+16, 36' LT											1									
351	TC-1	LIVINGSTON AVE	1368+16, 36' LT																		2	1		1
351	IC-2	LIVINGSTON AVE	1368+16, 36' LT	1370+50, 37' LT							237	233					237							
LIVINGSTON AVE. BETWEEN STA. 1370+50 AND 1381+50, INT 2032																								
352	IC-1	LIVINGSTON AVE	1370+50, 37' LT	1371+83, 36' LT							135	133					135							
352	SE A-1	LIVINGSTON AVE	1371+83, 36' LT								150		1											
352	IC-4	LIVINGSTON AVE	1371+83, 36' LT	1371+83, 36' LT											1									
352	TC-1	LIVINGSTON AVE	1371+83, 36' LT																		2	1		1
352	IC-2	LIVINGSTON AVE	1371+83, 36' LT	1381+50, 36' LT							982	967					982							
352	IC-3	LIVINGSTON AVE	1380+08, 36' LT								150													
LIVINGSTON AVE. BETWEEN STA. 1381+50 AND 1403+50																								
353	IC-1	LIVINGSTON AVE	1381+50, 36' LT	1400+41, 37' LT							1920	1892					1920							
353	IC-2	LIVINGSTON AVE	1390+27, 37' LT								150													
353	IC-3	LIVINGSTON AVE	1398+66, 37' LT								150													
353	IC-4	LIVINGSTON AVE	1400+41, 37' LT						1		35													
353	IC-5	LIVINGSTON AVE	1400+41, 37' LT	1400+59, 39' LT		17			17		17													
353	IC-6	LIVINGSTON AVE	1400+59, 39' LT					1			100													
353	IC-7	LIVINGSTON AVE	1400+59, 39' LT	1403+50, 28' LT			586				293													
SHEET TOTAL					5	17	586	1	17	1	9474	7303	3	1	4	1	7518	50	1	1	8	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

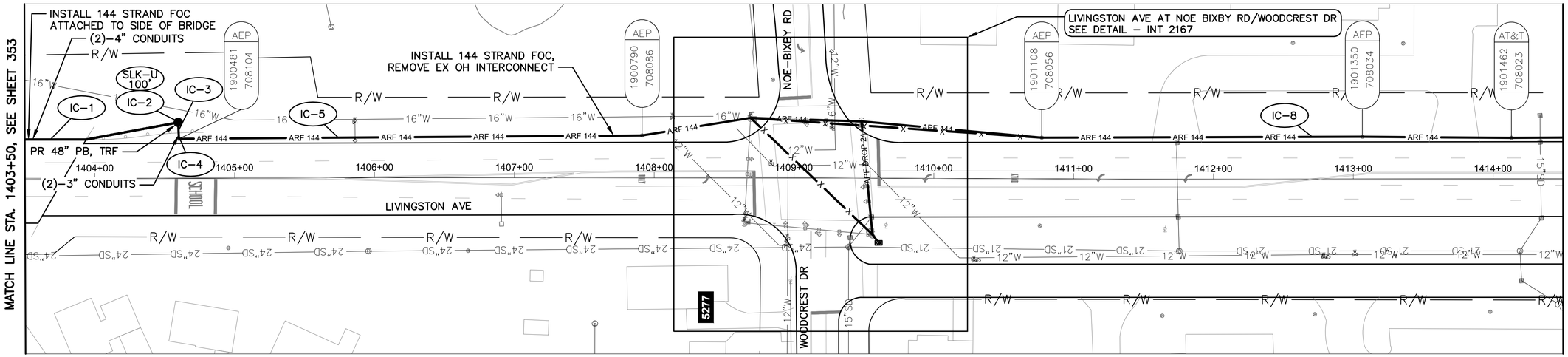
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1329+00 & 1403+50
INTS 2029, 2030, 2031, 2032

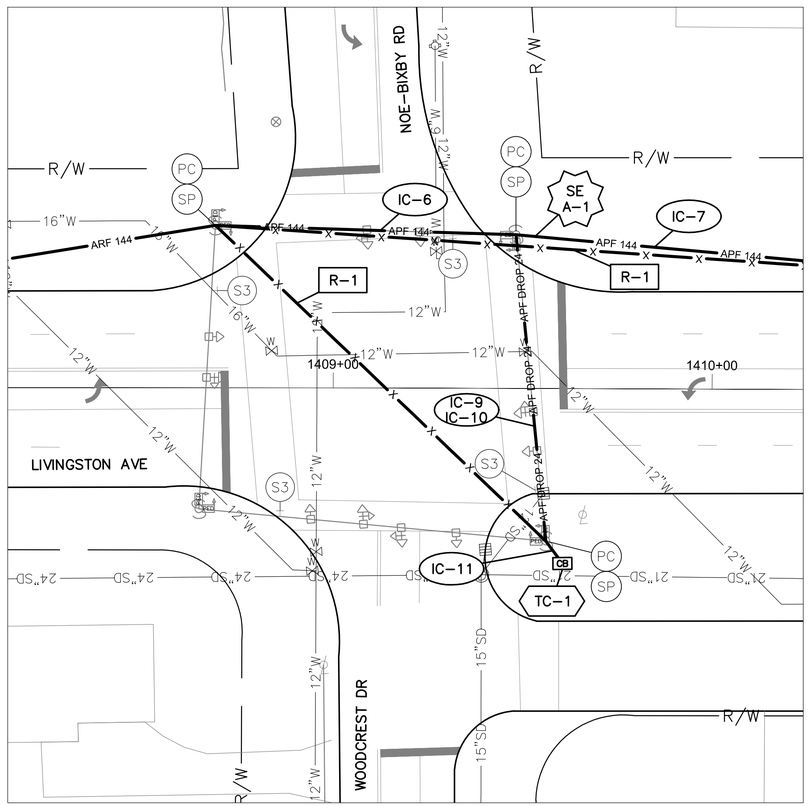
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

354
911

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LIVINGSTON AVE BETWEEN STATION 1403+50 AND 1414+50



DETAIL - INT 2167

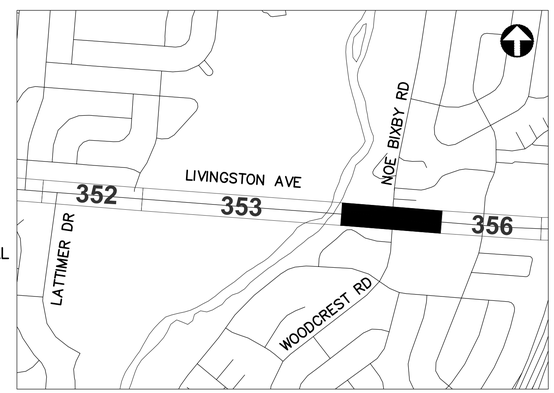
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEETS 614 & 771 FOR COMMUNICATION DETAILS.
3. FOR PC AT INT 2167, ATTACH 1' ABOVE EXISTING SIGNAL SPAN ATTACHMENT.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

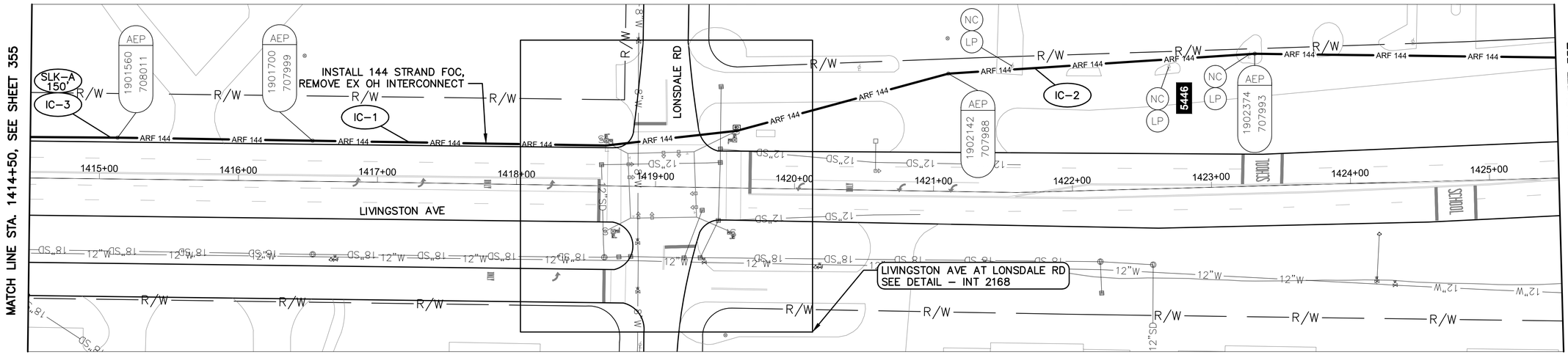
INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1403+50 AND 1414+50, INT 2167

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

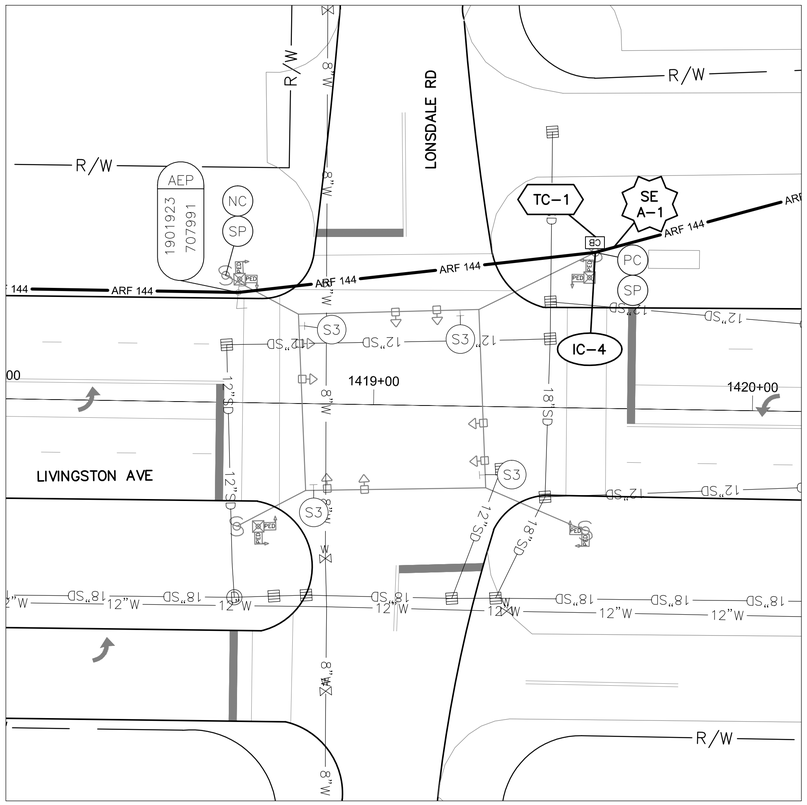
355
911

2953-E

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LIVINGSTON AVE BETWEEN STATION 1414+50 AND 1425+50



DETAIL - INT 2168

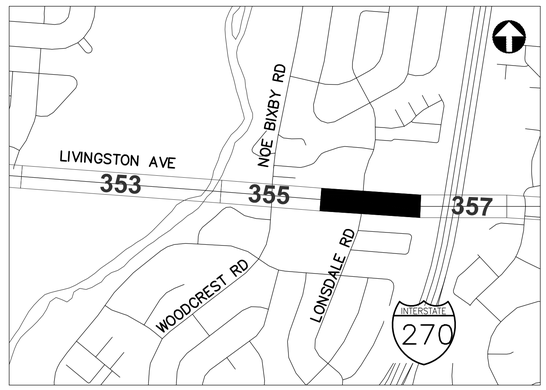
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEETS 614 & 772 FOR COMMUNICATION DETAILS.

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

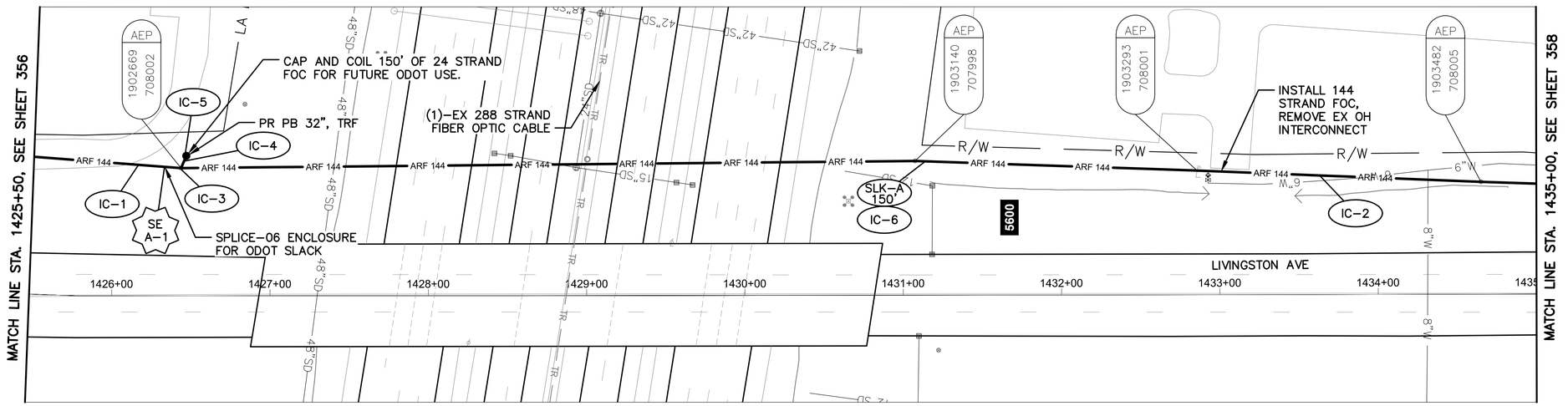
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1414+50 AND 1425+50, INT 2168

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

356
911

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LIVINGSTON AVE BETWEEN STATION 1425+50 AND 1435+00

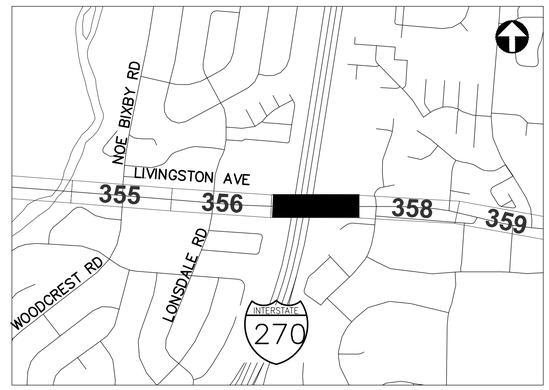
NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEETS 614 & 773 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SPLICE ALL FIBERS, LIKE COLOR FIBER/BUFFER TUBE 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

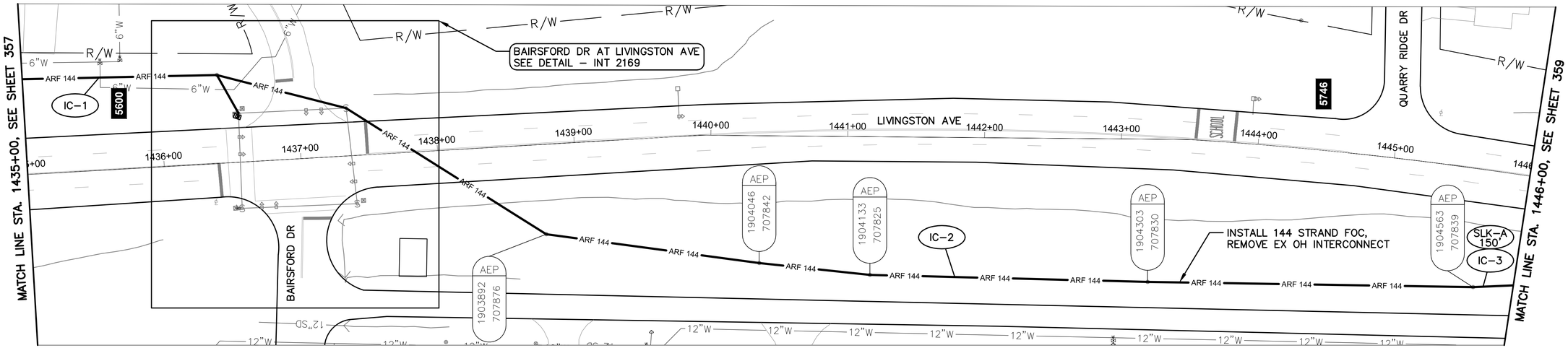
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1425+50 AND 1435+00

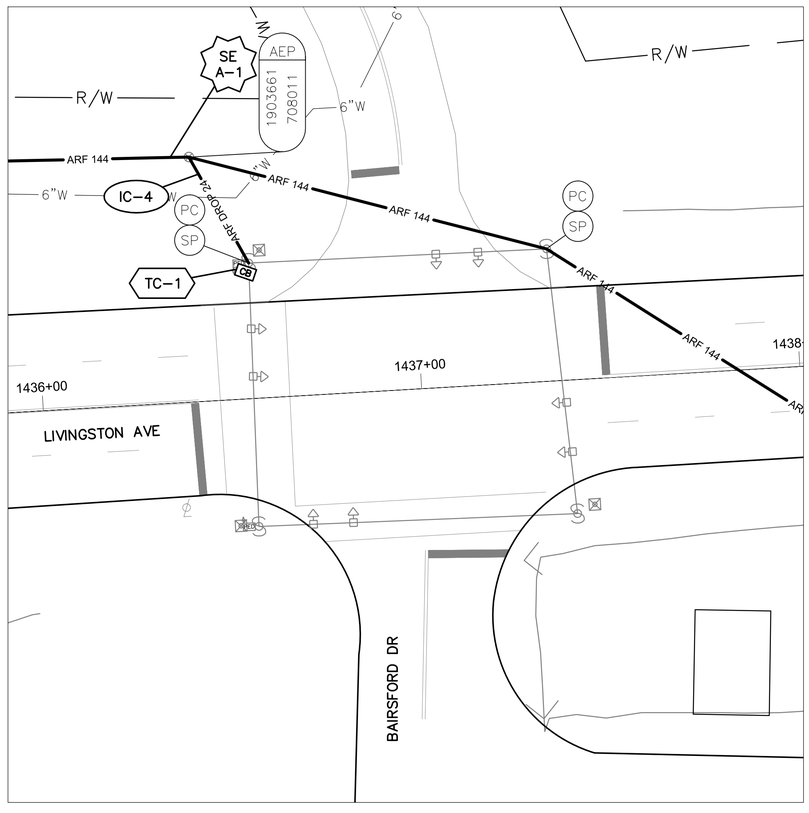
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

357
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LIVINGSTON_C2_INTERCONNECT.dwg – LIVINGSTON 39 layout ~ last saved by: sdlowry 05/08/2017 04:59pm ~ printed 05/08/2017 10:02am



LIVINGSTON AVE BETWEEN STATION 1435+00 AND 1446+00

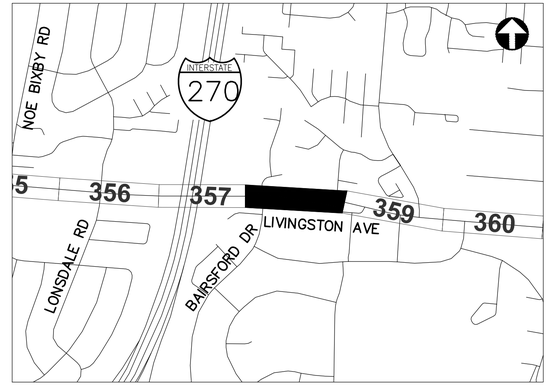


DETAIL - INT 2169

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEETS 614 & 774 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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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

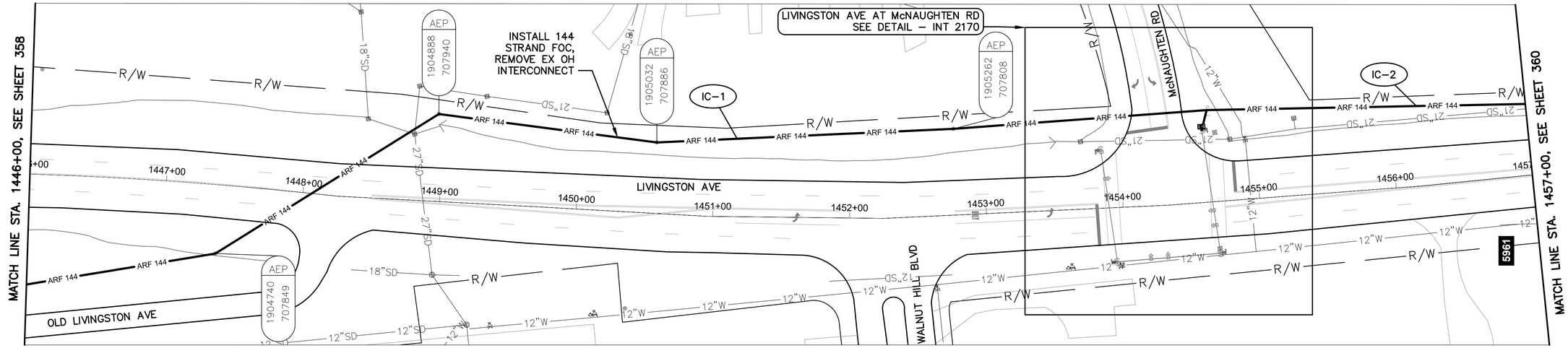
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1435+00 AND 1446+00, INT 2169

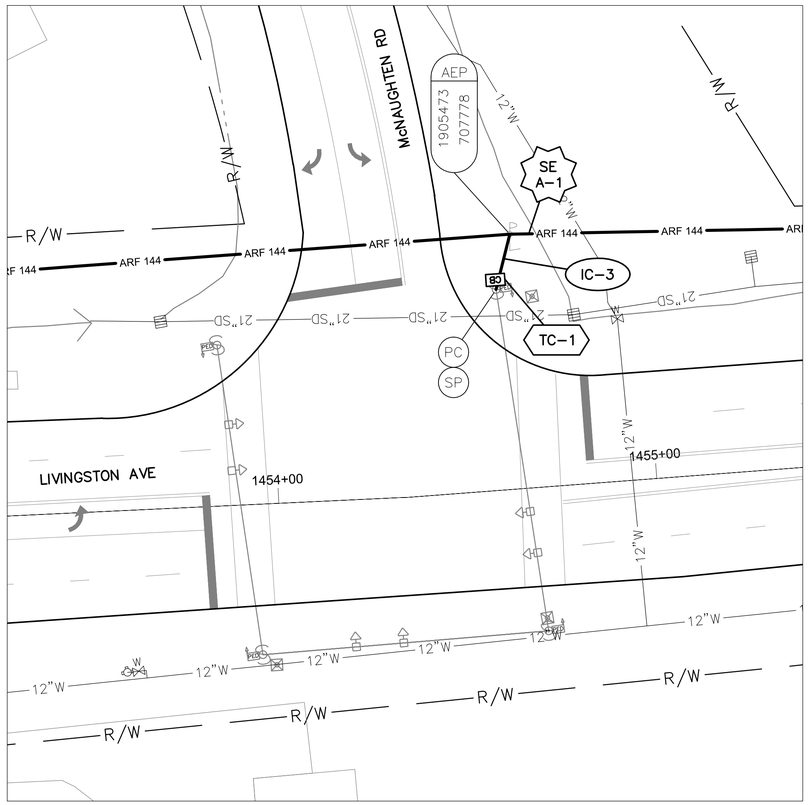
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

358
911

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LIVINGSTON AVE BETWEEN STATION 1446+00 AND 1457+00



DETAIL - INT 2170

0 20 40
HORIZONTAL SCALE IN FEET

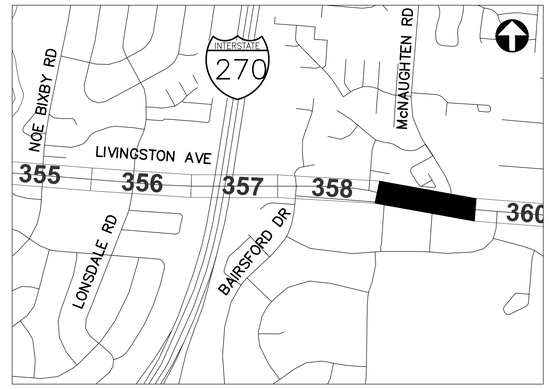
NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEETS 614 & 775 FOR COMMUNICATION DETAILS.

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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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

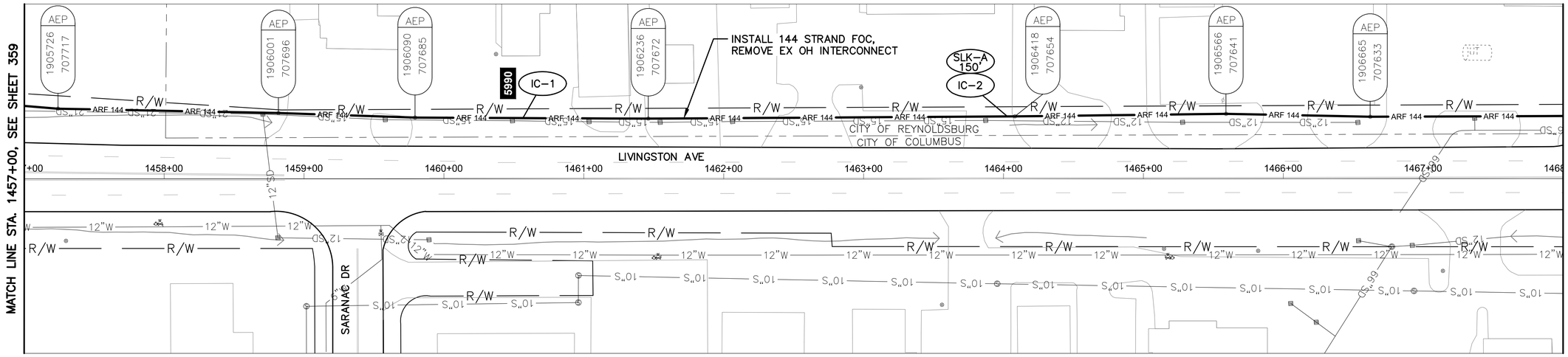
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1446+00 AND 1457+00, INT 2170

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

359
911

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LIVINGSTON AVE BETWEEN STATION 1457+00 AND 1468+00

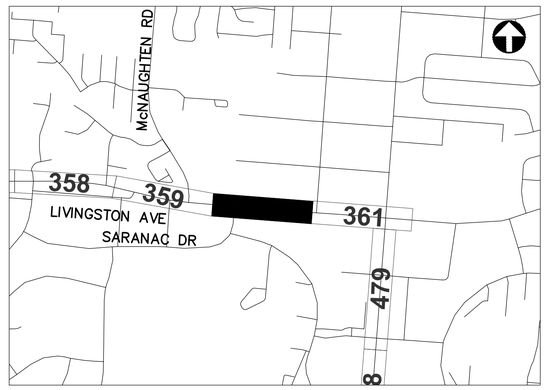
NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEET 614 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

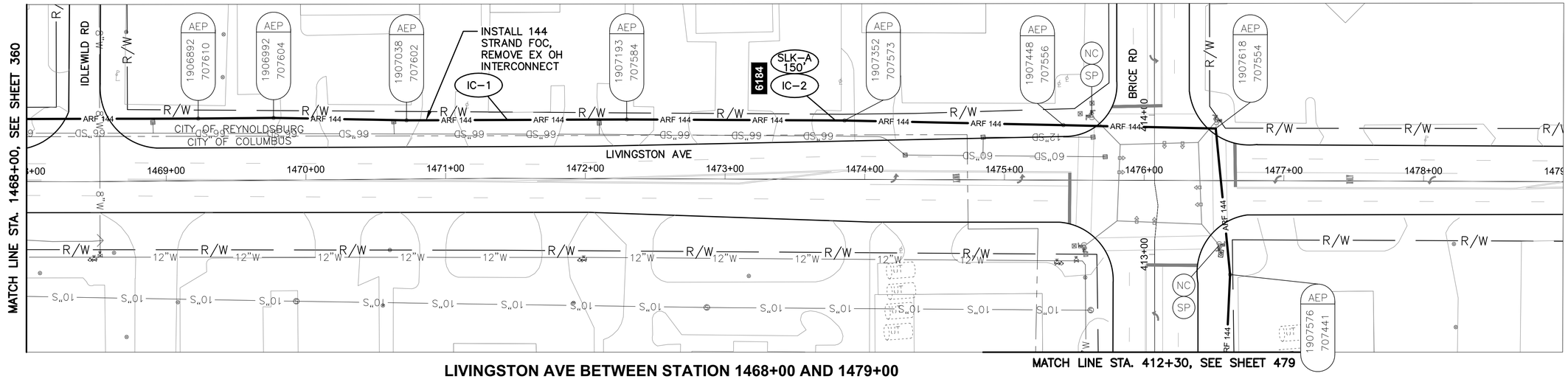
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INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1457+00 AND 1468+00

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

360
911

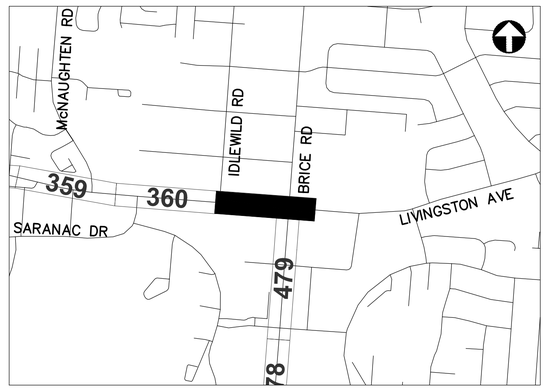
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LIVINGSTON AVE BETWEEN STATION 1468+00 AND 1479+00

NOTES:

1. SEE SHEET 362 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
LIVINGSTON AVE BETWEEN STA. 1468+00 AND 1479+00

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

361
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	633	633	633	633	
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 2-3", 725.05, 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	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND	INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 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	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	
			FROM	TO	FT	FT	FT	FT	EACH	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	
LIVINGSTON AVE. BETWEEN STA. 1403+50 AND 1414+50, INT 2167																							
355	IC-1	LIVINGSTON AVE	1403+50, 28' LT	1404+59, 40' LT				222					111										
355	IC-5	LIVINGSTON AVE	1403+50, 31' LT	1408+68, 43' LT									528		502				528				
355	IC-2	LIVINGSTON AVE	1404+59, 40' LT							1			100										
355	IC-3	LIVINGSTON AVE	1404+59, 40' LT	1404+60, 28' LT			12				12		12										
355	IC-4	LIVINGSTON AVE	1404+60, 28' LT									1	35										
355	IC-6	LIVINGSTON AVE	1408+68, 43' LT	1409+48, 41' LT									80						80				
355	SE A-1	LIVINGSTON AVE	1409+48, 41' LT										150			1							
355	IC-7	LIVINGSTON AVE	1409+48, 41' LT	1410+77, 29' LT									131						131				
355	IC-9	LIVINGSTON AVE	1409+48, 41' LT	1409+56, 40' RT															82				
355	IC-10	LIVINGSTON AVE	1409+48, 41' LT	1409+60, 46' RT														1					
355	R-1	LIVINGSTON AVE	1409+56, 40' RT	1410+77, 29' LT											329								
355	IC-11	LIVINGSTON AVE	1409+56, 40' RT	1409+60, 46' RT	7																		
355	TC-1	LIVINGSTON AVE	1409+60, 46' RT																	2	1		1
355	IC-8	LIVINGSTON AVE	1410+77, 29' LT	1414+50, 29' LT									379		373				379				
LIVINGSTON AVE. BETWEEN STA. 1414+50 AND 1425+50, INT 2168																							
356	IC-1	LIVINGSTON AVE	1414+50, 29' LT	1419+57, 41' LT									517		509				517				
356	IC-3	LIVINGSTON AVE	1415+07, 30' LT										150										
356	SE A-1	LIVINGSTON AVE	1419+57, 41' LT										150			1							
356	IC-4	LIVINGSTON AVE	1419+57, 41' LT	1419+57, 41' LT													1						
356	TC-1	LIVINGSTON AVE	1419+57, 41' LT																	2	1	1	
356	IC-2	LIVINGSTON AVE	1419+57, 41' LT	1425+50, 87' LT									604		595				604				
LIVINGSTON AVE. BETWEEN STA. 1425+50 AND 1435+00, INT SPLICE-06																							
357	IC-1	LIVINGSTON AVE	1425+50, 87' LT	1426+43, 81' LT									94		93				94				
357	IC-3	LIVINGSTON AVE	1426+43, 81' LT									1		70									
357	IC-4	LIVINGSTON AVE	1426+43, 81' LT	1426+47, 86' LT		8					8			16									
357	IC-2	LIVINGSTON AVE	1426+43, 81' LT	1435+00, 70' LT									867		854				867				
357	SE A-1	LIVINGSTON AVE	1426+43, 81' LT										150	75		1							
357	IC-5	LIVINGSTON AVE	1426+47, 86' LT						1					150									
357	IC-6	LIVINGSTON AVE	1431+14, 85' LT										150										
LIVINGSTON AVE. BETWEEN STA. 1435+00 AND 1446+00 , INT 2169																							
358	IC-1	LIVINGSTON AVE	1435+00, 70' LT	1436+42, 65' LT									144		142				144				
358	SE A-1	LIVINGSTON AVE	1436+42, 65' LT										150			1							
358	IC-4	LIVINGSTON AVE	1436+42, 65' LT	1436+56, 36' LT											32			1	32				
358	IC-2	LIVINGSTON AVE	1436+42, 65' LT	1446+00, 81' RT									994		979				994				
358	TC-1	LIVINGSTON AVE	1436+56, 36' LT																	2	1		1
358	IC-3	LIVINGSTON AVE	1445+77, 85' RT										150										
LIVINGSTON AVE. BETWEEN STA. 1446+00 AND 1457+00, INT 2170																							
359	IC-1	LIVINGSTON AVE	1446+00, 81' RT	1454+66, 67' LT									908		895				908				
359	TC-1	LIVINGSTON AVE	1454+61, 53' LT																	2	1		1
359	IC-3	LIVINGSTON AVE	1454+61, 53' LT	1454+66, 67' LT											15		1		15				
359	SE A-1	LIVINGSTON AVE	1454+66, 67' LT										150			1							
359	IC-2	LIVINGSTON AVE	1454+66, 67' LT	1457+00, 52' LT									236		233				236				
LIVINGSTON AVE. BETWEEN STA. 1457+00 AND 1468+00																							
360	IC-1	LIVINGSTON AVE	1457+00, 52' LT	1468+00, 45' LT									1117		1100				1117				
360	IC-2	LIVINGSTON AVE	1464+02, 45' LT										150										
LIVINGSTON AVE. BETWEEN STA. 1468+00 AND 1479+00																							
361	IC-1	LIVINGSTON AVE	1468+00, 45' LT	1476+54, 123' RT									1027		1012				1027				
361	IC-2	LIVINGSTON AVE	1473+78, 42' LT										150										
SHEET TOTAL					7	8	12	222	1	1	20	2	9384	311	7663	5	2	2	7755	8	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

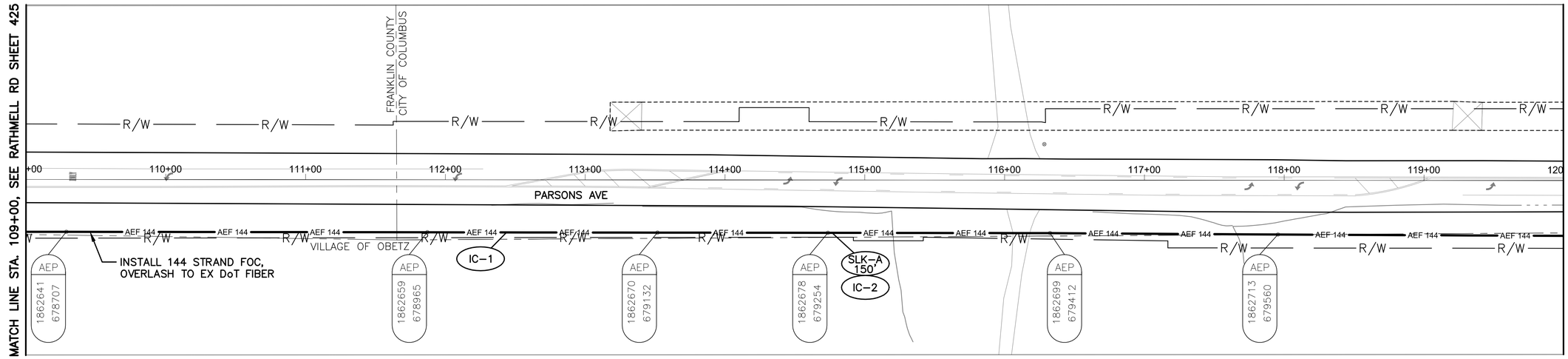
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PID NUMBER: 14522

LIVINGSTON AVE. BTW STA. 1403+50 & 1479+00
INTS 2167, 2168, 2169, 2170

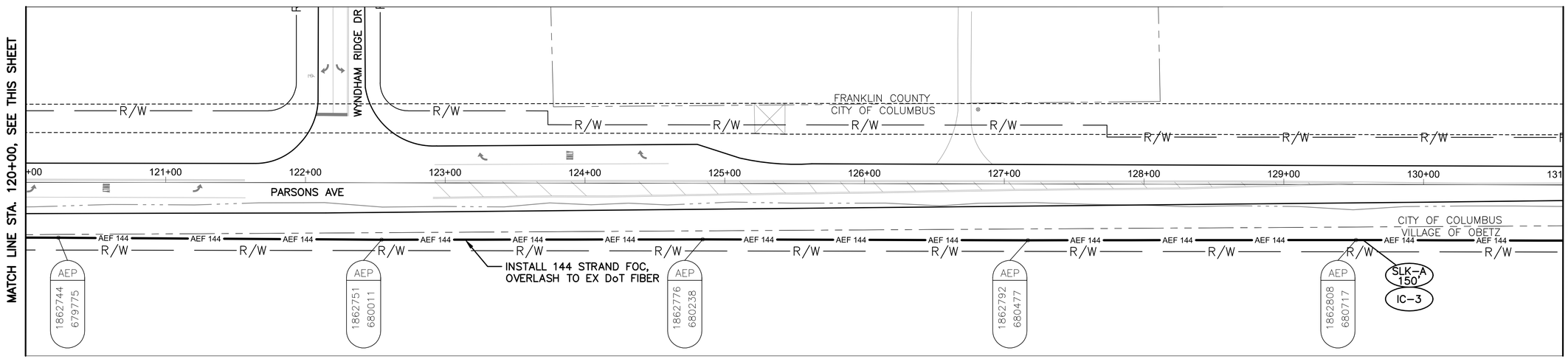
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

362
911

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PARSONS AVE BETWEEN STATION 109+00 AND 120+00



PARSONS AVE BETWEEN STATION 120+00 AND 131+00

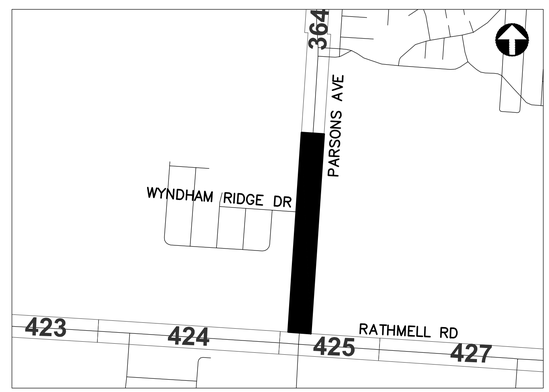
NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

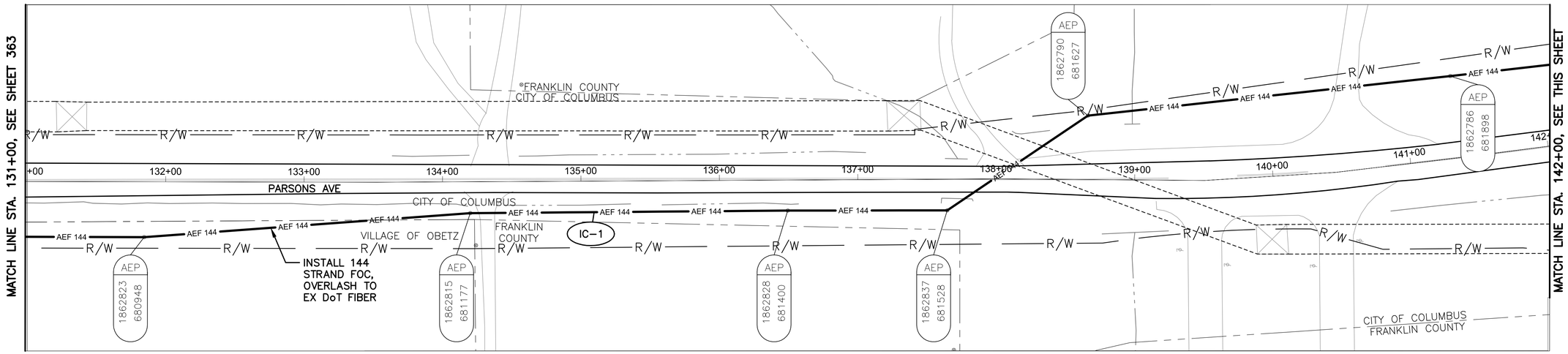
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 109+00 AND 131+00

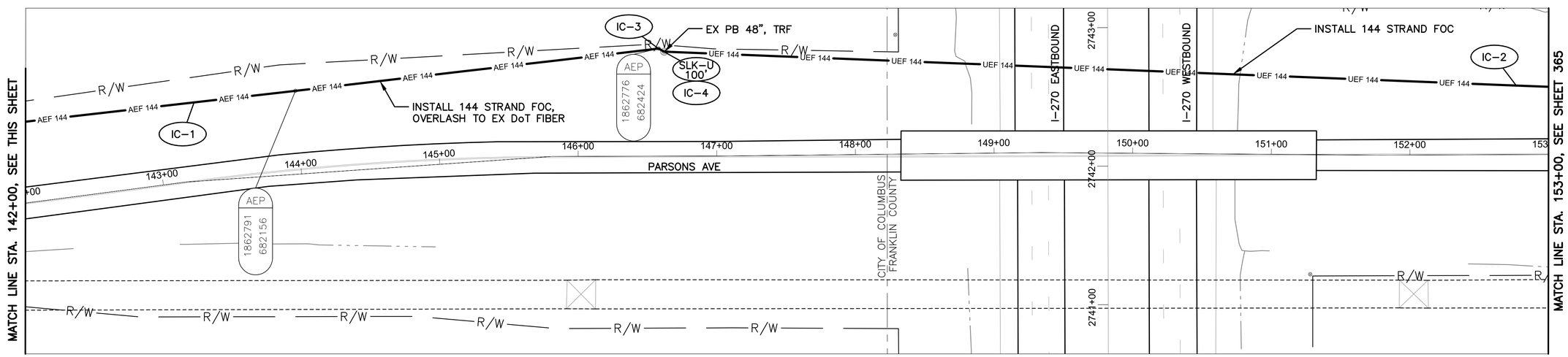
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

363
911

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PARSONS AVE BETWEEN STATION 131+00 AND 142+00



PARSONS AVE BETWEEN STATION 142+00 AND 153+00

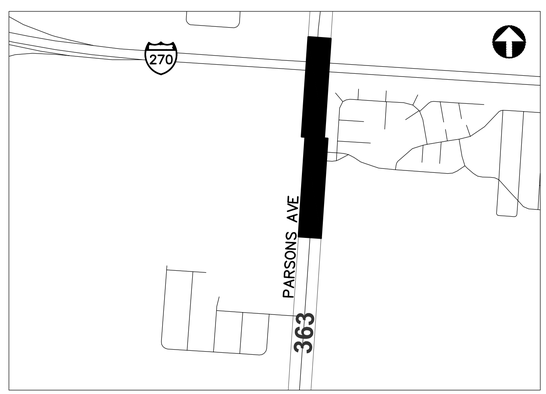
NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

- ☐ SEWER
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- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

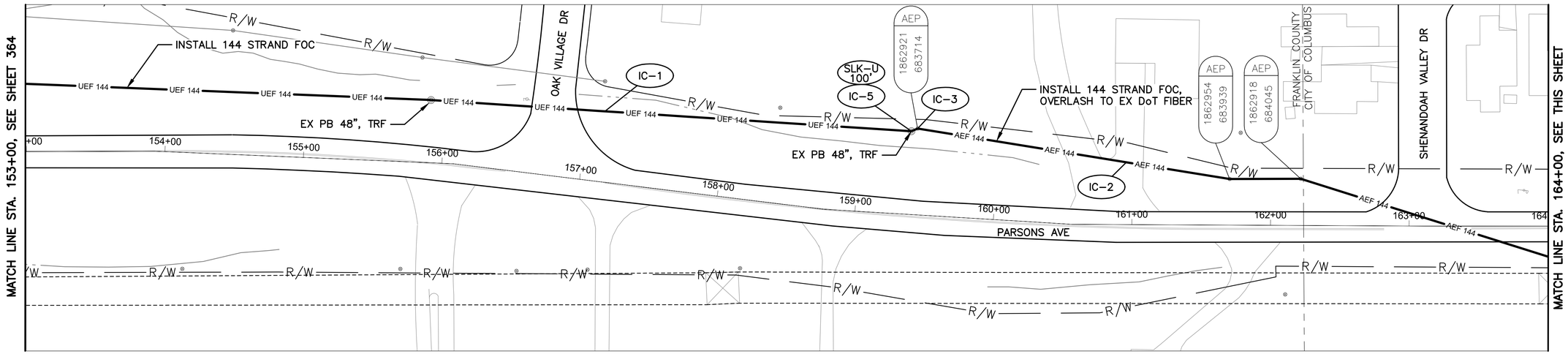
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 131+00 AND 153+00

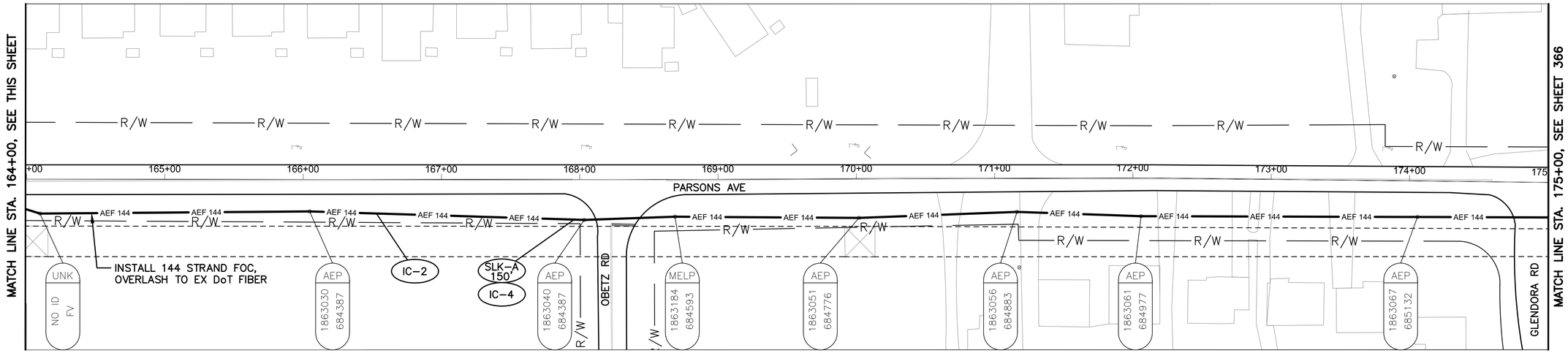
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

364
911

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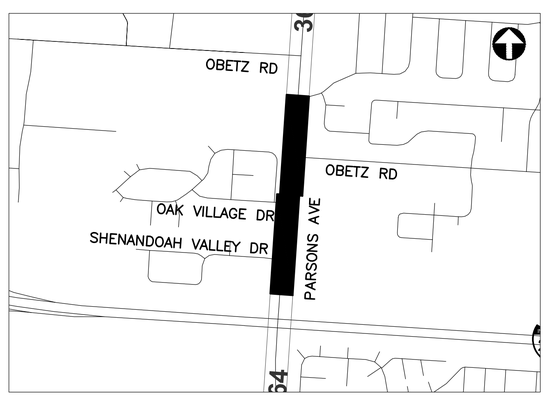
PARSONS AVE BETWEEN STATION 153+00 AND 164+00



PARSONS AVE BETWEEN STATION 164+00 AND 175+00

NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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

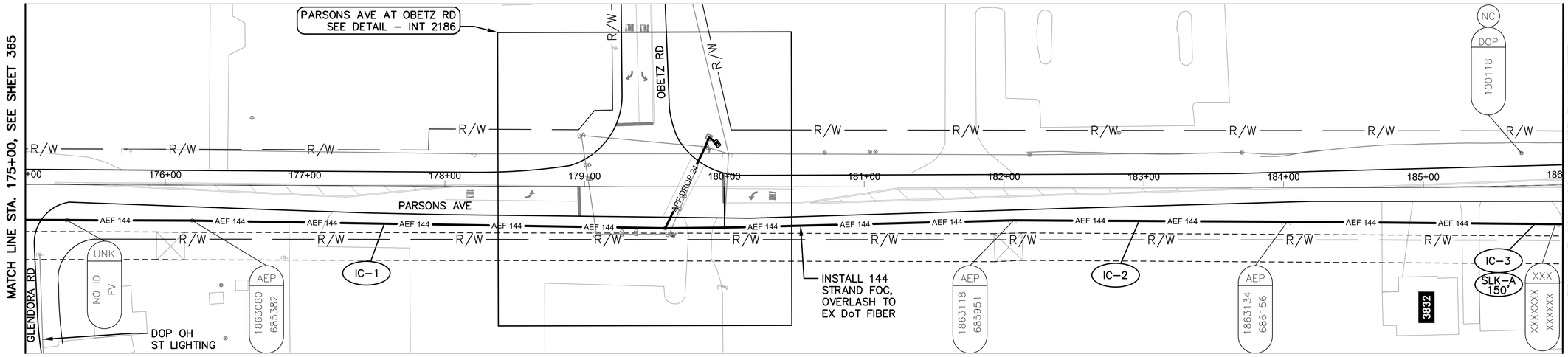
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 153+00 AND 175+00

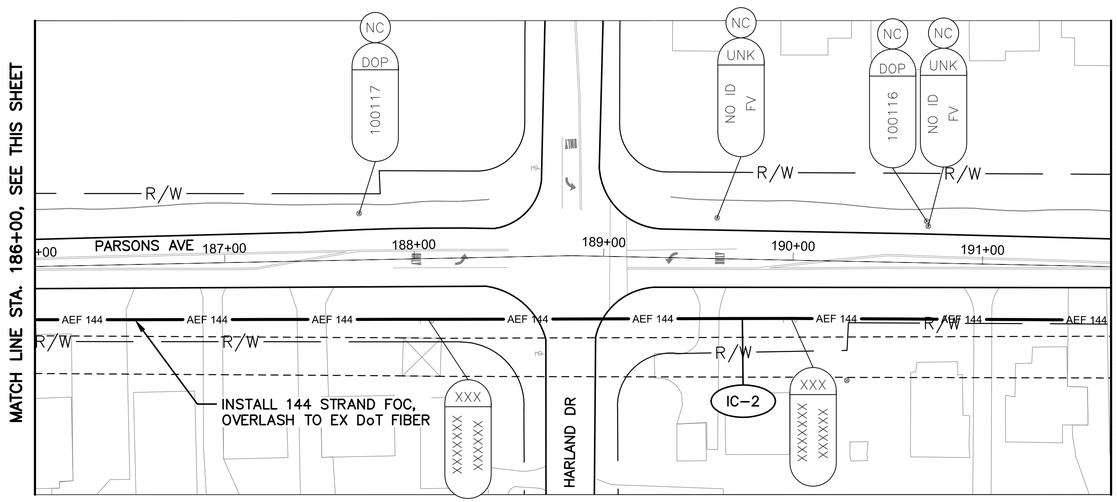
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

365
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_PARSONS_A_INTERCONNECT.dwg - PARSONS 3 layout - last saved by: sdlowry 05/08/2017 05:04pm - printed 05/08/2017 10:07pm



PARSONS AVE BETWEEN STATION 175+00 AND 186+00



PARSONS AVE BETWEEN STATION 186+00 AND 191+68

DETAIL - INT 2186

0 20 40
HORIZONTAL
SCALE IN FEET

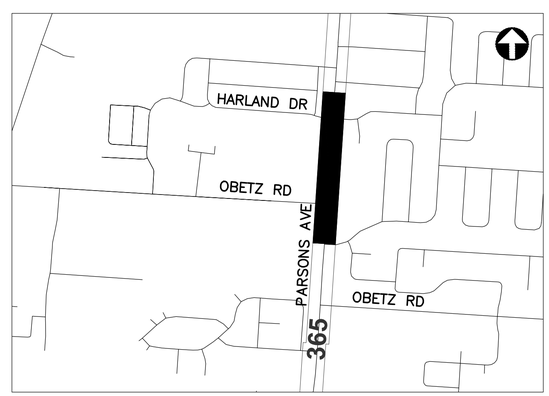
NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEETS 611 & 784 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

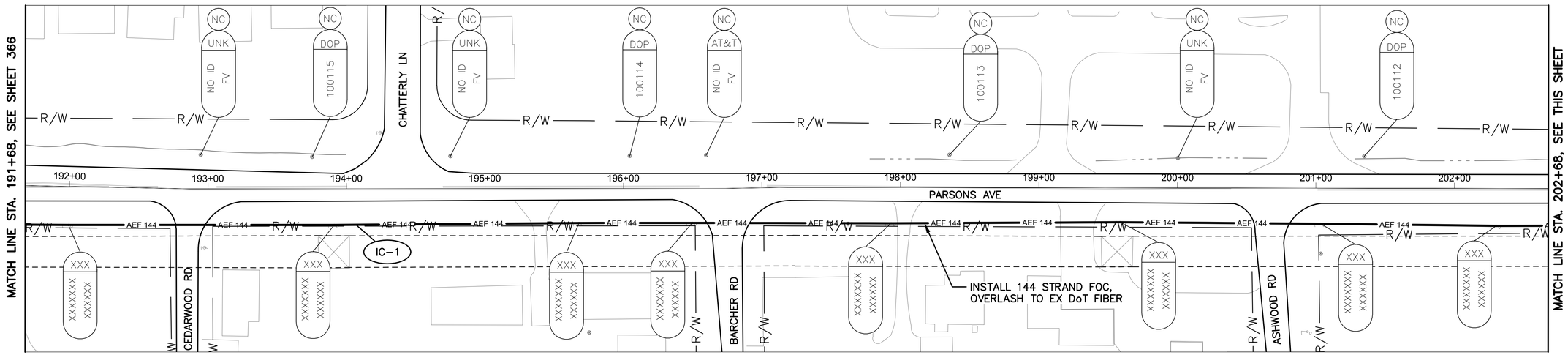
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INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 175+00 AND 191+68, INT 2186

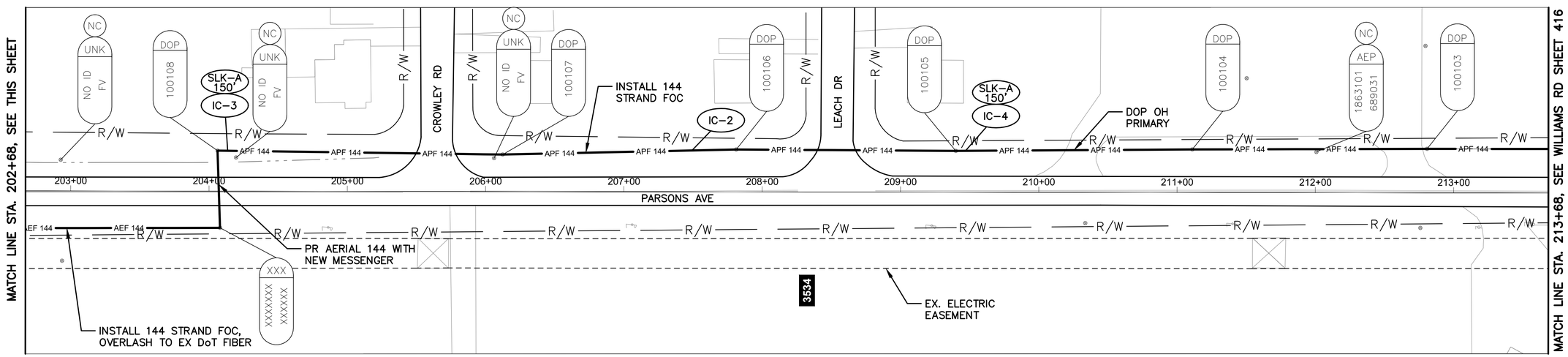
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

366
911

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PARSONS AVE BETWEEN STATION 191+68 AND 202+68



PARSONS AVE BETWEEN STATION 202+68 AND 213+68

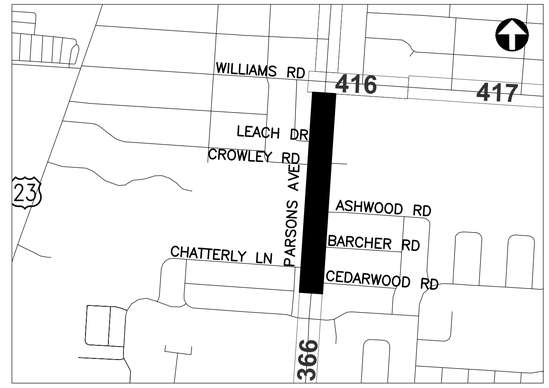
NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. CONTRACTOR AT OWN COST MAY CUT 144 STRAND FOC AND TERMINATE ALL AT STA 203+00. CONTRACTOR MUST NOTIFY ENGINEER FIRST.

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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

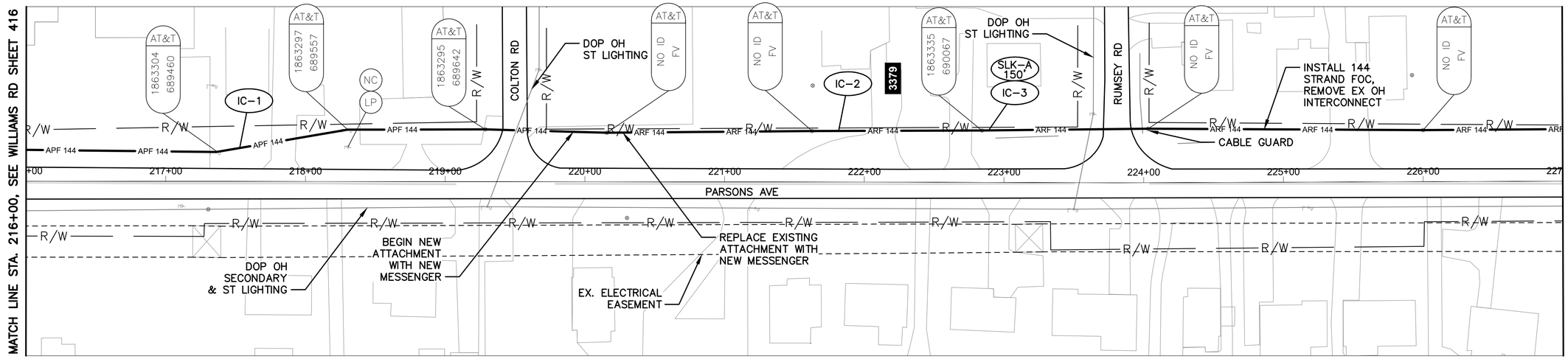
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 191+68 AND 213+68

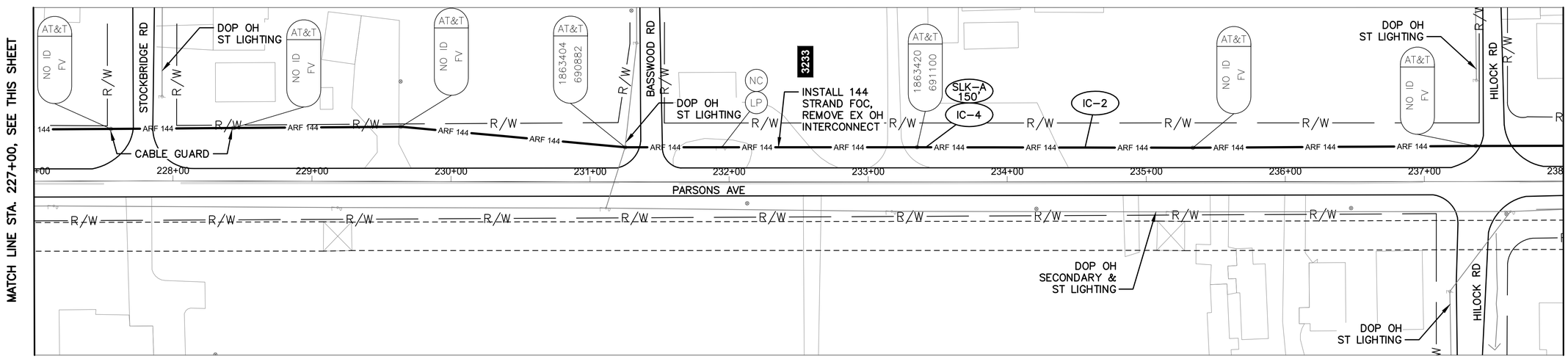
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

367
911

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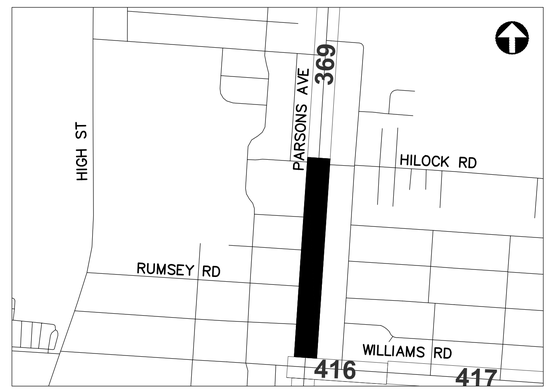
PARSONS AVE BETWEEN STATION 216+00 AND 227+00



PARSONS AVE BETWEEN STATION 227+00 AND 238+00

NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEETS 611 & 620 FOR COMMUNICATION DETAILS.
3. REPLACE TOP ATTACHMENT WITH FIBER.



REFER TO SHEET 270 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

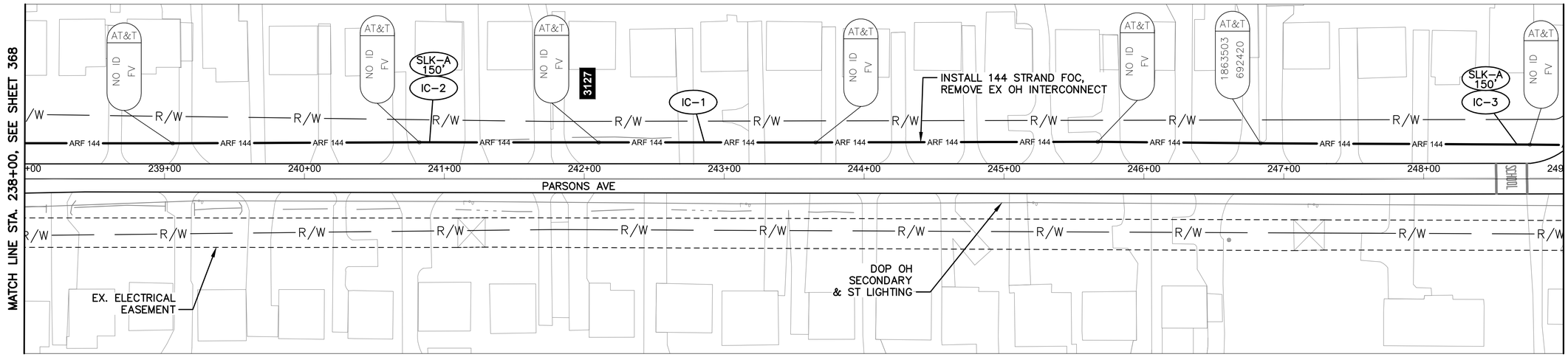
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INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 216+00 AND 238+00

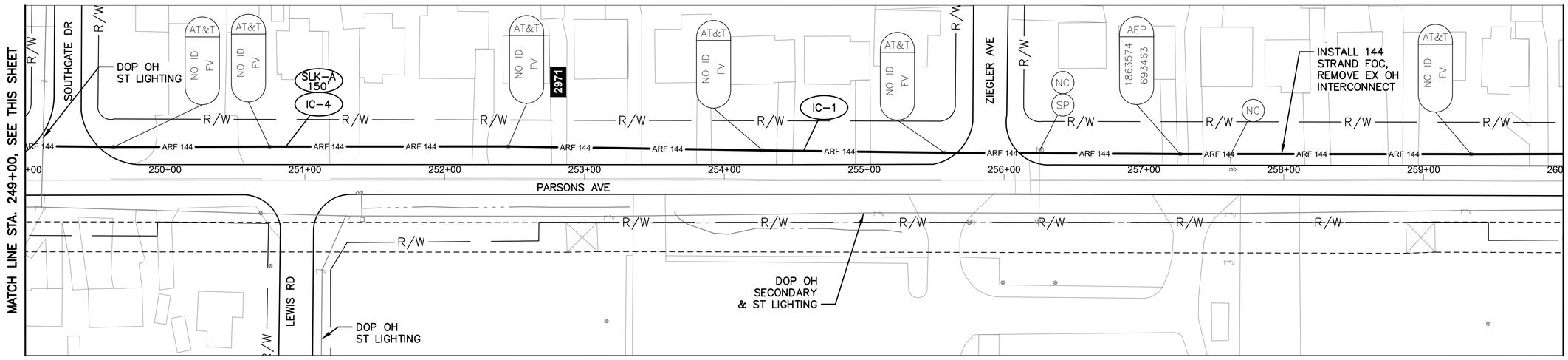
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

368
911

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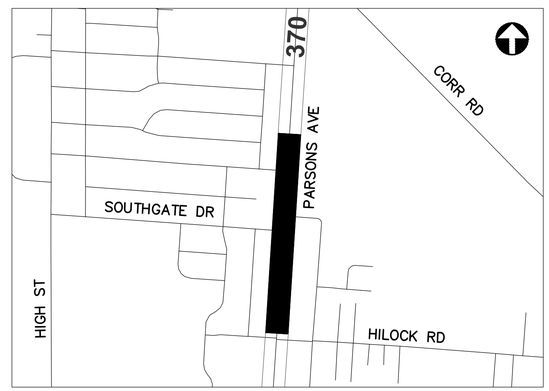
PARSONS AVE BETWEEN STATION 238+00 AND 249+00



PARSONS AVE BETWEEN STATION 249+00 AND 260+00

NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. REPLACE TOP ATTACHMENT WITH FIBER.



REFER TO SHEET 270 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

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

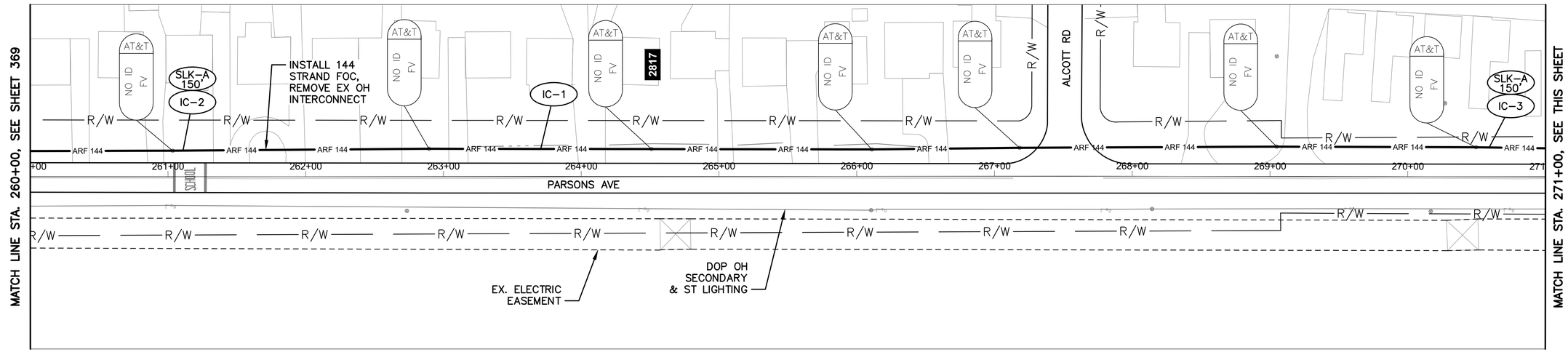
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INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 238+00 AND 260+00

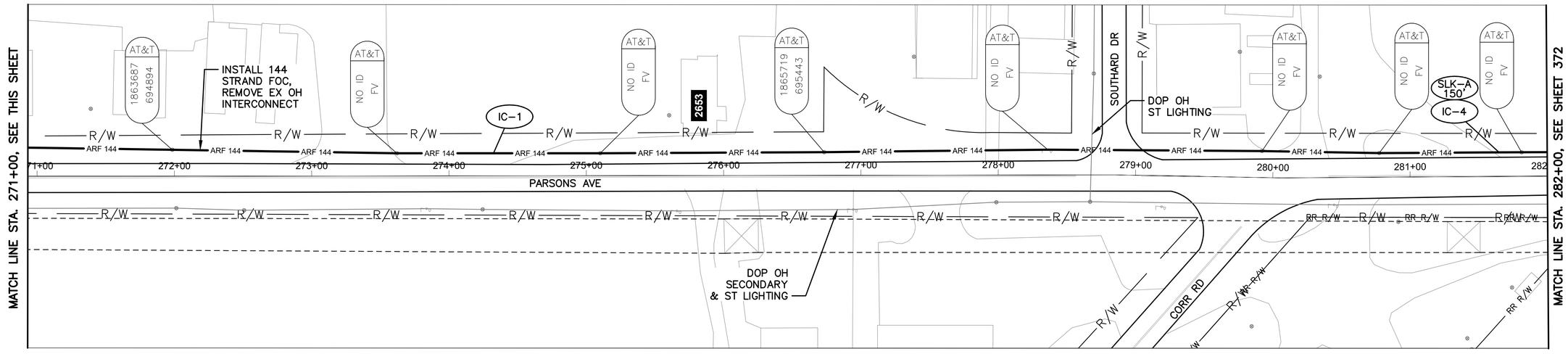
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

369
911

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PARSONS AVE BETWEEN STATION 260+00 AND 271+00



PARSONS AVE BETWEEN STATION 271+00 AND 282+00

NOTES:

1. SEE SHEET 371 FOR QUANTITIES.
2. SEE SHEET 610 FOR COMMUNICATION DETAILS.
3. REPLACE TOP ATTACHMENT WITH FIBER.



REFER TO SHEET 270 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
PARSONS AVE BETWEEN STA. 260+00 AND 282+00

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

370
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									
PARSONS AVE. BETWEEN STA. 109+00 AND 131+00																									
363	IC-1	PARSONS AVE	109+00, 37' RT	131+00, 40' RT			2233	2233																	
363	IC-2	PARSONS AVE	114+69, 38' RT				150																		
363	IC-3	PARSONS AVE	129+56, 40' RT				150																		
PARSONS AVE. BETWEEN STA. 131+00 AND 153+00																									
364	IC-1	PARSONS AVE	131+00, 40' RT	146+58, 78' LT			1606	1606																	
364	IC-3	PARSONS AVE	146+58, 78' LT			1	35																		
364	IC-2	PARSONS AVE	146+58, 78' LT	153+00, 49' LT	643		643																		
364	IC-4	PARSONS AVE	146+62, 75' LT				100																		
PARSONS AVE. BETWEEN STA. 153+00 AND 175+00																									
365	IC-1	PARSONS AVE	153+00, 49' LT	159+41, 62' LT	644		644																		
365	IC-5	PARSONS AVE	159+37, 60' LT				100																		
365	IC-3	PARSONS AVE	159+41, 62' LT			1	35																		
365	IC-2	PARSONS AVE	159+41, 62' LT	175+00, 25' RT			1591	1591																	
365	IC-4	PARSONS AVE	167+96, 29' RT				150																		
PARSONS AVE. BETWEEN STA. 175+00 AND 191+68, INT 2186																									
366	IC-1	PARSONS AVE	175+00, 25' RT	180+00, 29' RT			508	508																	
366	IC-4	PARSONS AVE	179+57, 30' RT	179+86, 29' LT								66													
366	IC-6	PARSONS AVE	179+86, 29' LT	179+94, 31' LT	20																				
366	IC-5	PARSONS AVE	179+94, 31' LT	180+00, 29' RT							1														
366	TC-1	PARSONS AVE	179+94, 31' LT										2	1	1										
366	IC-2	PARSONS AVE	180+00, 29' RT	191+68, 23' LT			1192	1192																	
366	SE A-1	PARSONS AVE	180+00, 29' RT				150			1															
366	IC-3	PARSONS AVE	185+80, 23' LT				150																		
PARSONS AVE. BETWEEN STA. 191+68 AND 213+68																									
367	IC-1	PARSONS AVE	191+68, 23' LT	202+92, 23' LT			1142	1142																	
367	IC-2	PARSONS AVE	202+92, 23' LT	213+68, 32' LT			1092					1092													
367	IC-3	PARSONS AVE	202+86, 23' LT				150																		
367	IC-4	PARSONS AVE	209+46, 30' LT				150																		
PARSONS AVE. BETWEEN STA. 216+00 AND 238+00																									
368	IC-1	PARSONS AVE	216+00, 22' LT	220+16, 35' LT			423					423													
368	IC-2	PARSONS AVE	220+16, 35' LT	238+00, 26' LT			1812		1785			1812													
368	IC-3	PARSONS AVE	222+88, 37' LT				150																		
368	IC-4	PARSONS AVE	233+41, 25' LT				150																		
PARSONS AVE. BETWEEN STA. 238+00 AND 260+00																									
369	IC-1	PARSONS AVE	238+00, 26' LT	260+00, 19' LT			2233		2200			2233													
369	IC-2	PARSONS AVE	240+89, 26' LT				150																		
369	IC-3	PARSONS AVE	248+66, 25' LT				150																		
369	IC-4	PARSONS AVE	250+86, 24' LT				150																		
PARSONS AVE. BETWEEN STA. 260+00 AND 282+00																									
370	IC-1	PARSONS AVE	260+00, 19' LT	282+00, 17' LT			2233		2200			2233													
370	IC-2	PARSONS AVE	261+10, 19' LT				150																		
370	IC-3	PARSONS AVE	270+59, 21' LT				150																		
SHEET TOTAL					1307	2	19722	8272	6185	1	1	7859	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

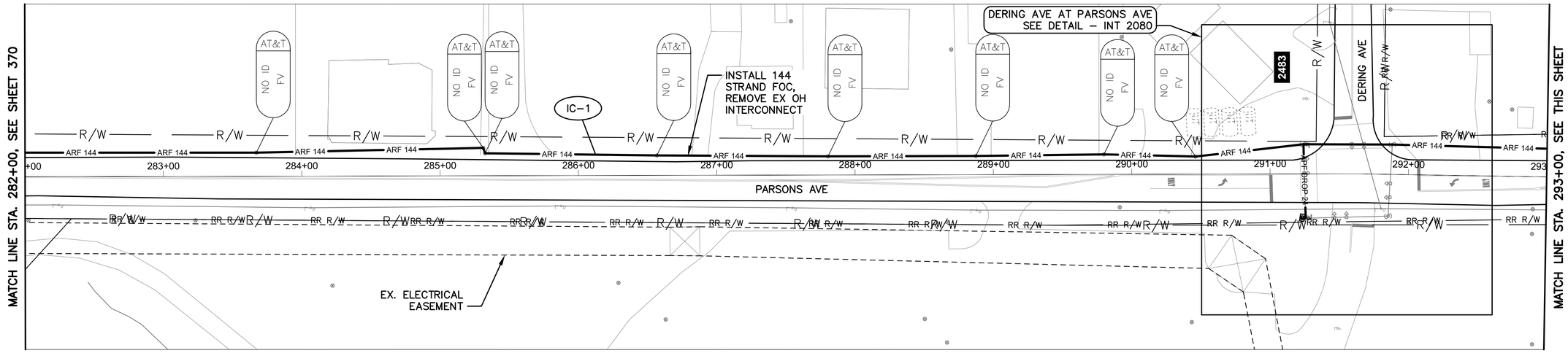
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PID NUMBER: 14522

PARSONS AVE. BTW STA. 109+00 & 282+00
INT 2186

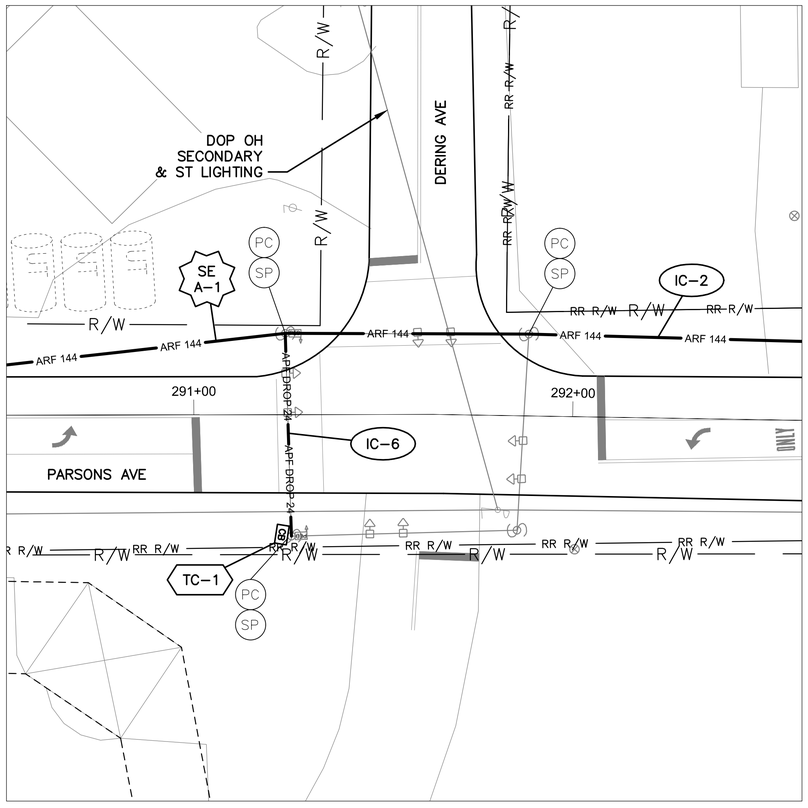
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

371
911

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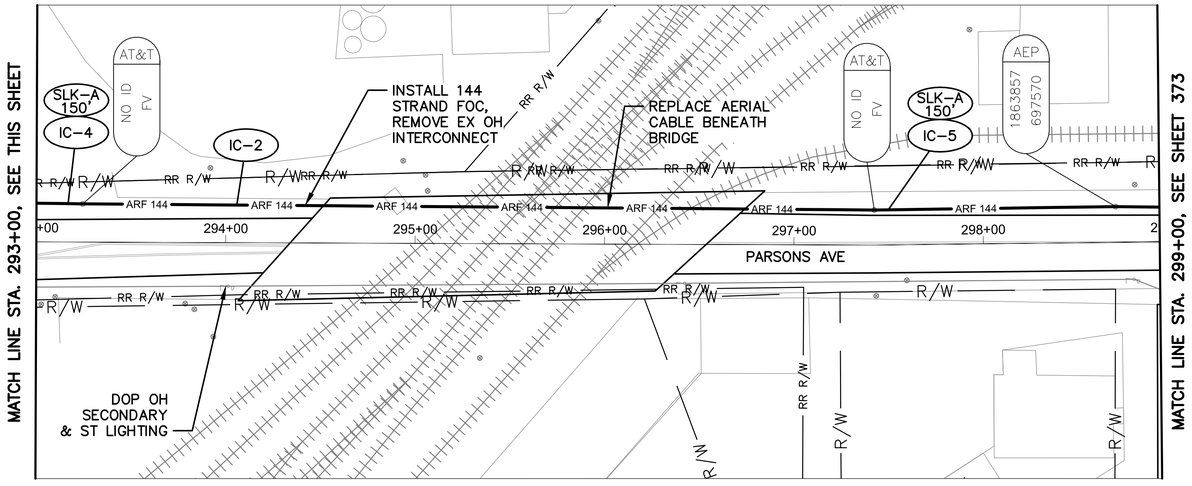


PARSONS AVE BETWEEN STATION 282+00 AND 293+00



DETAIL - INT 2080

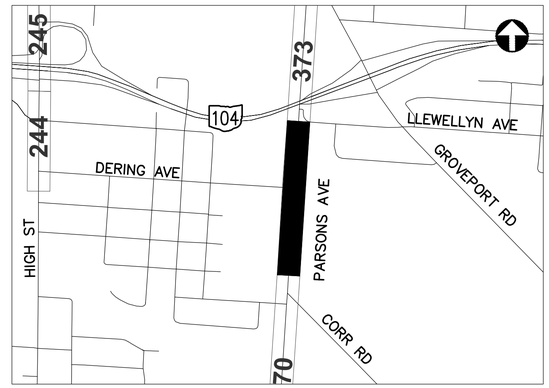
0 20 40
HORIZONTAL
SCALE IN FEET



PARSONS AVE BETWEEN STATION 293+00 AND 299+00

NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEETS 610 & 788 FOR COMMUNICATION DETAILS.
3. REPLACE TOP ATTACHMENT WITH FIBER.
4. DOP 480V SECONDARY POWERS UNDERPASS LIGHTS ON PARSONS AT 295+00. PROTECT CONDUITS AND CONDUCTORS FROM DAMAGE. USE EXISTING CLAMPS AND STANDOFF ON BRIDGE.



REFER TO SHEET 270 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

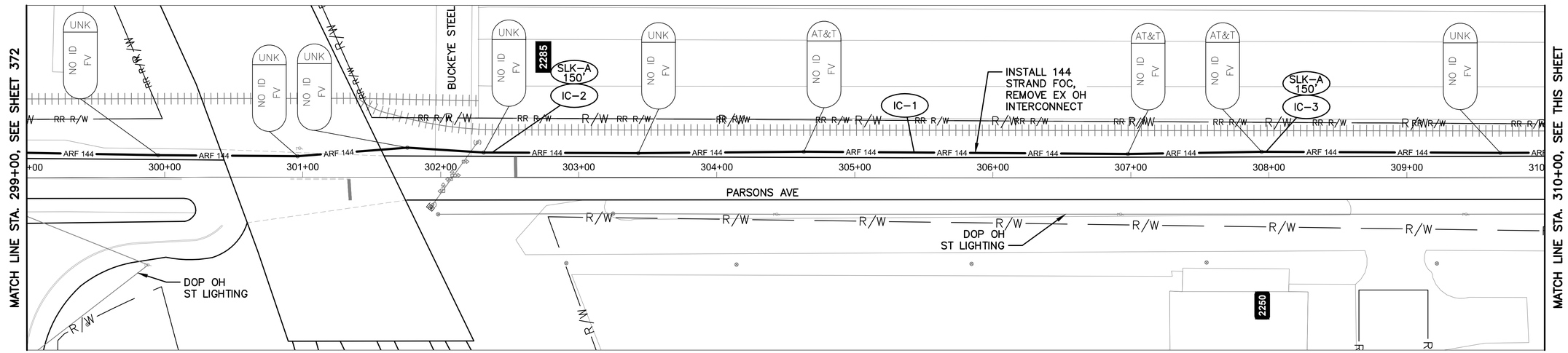
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 282+00 AND 299+00, INT 2080

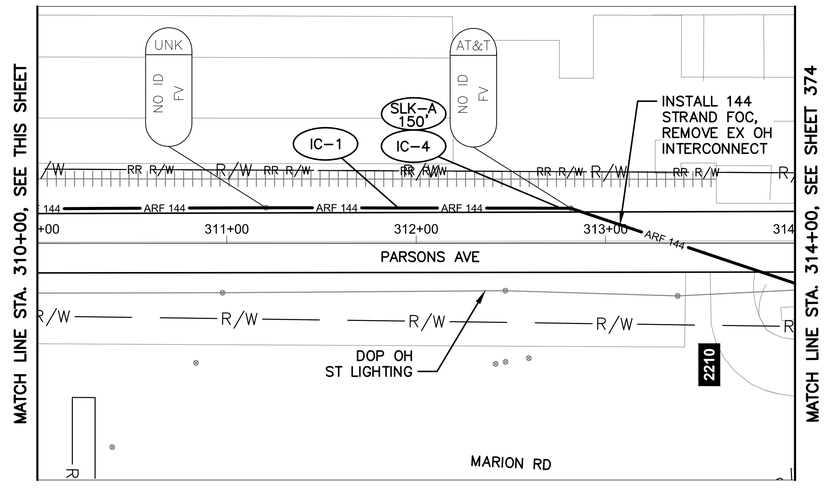
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

372
911

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PARSONS AVE BETWEEN STATION 299+00 AND 310+00



PARSONS AVE BETWEEN STATION 310+00 AND 314+00

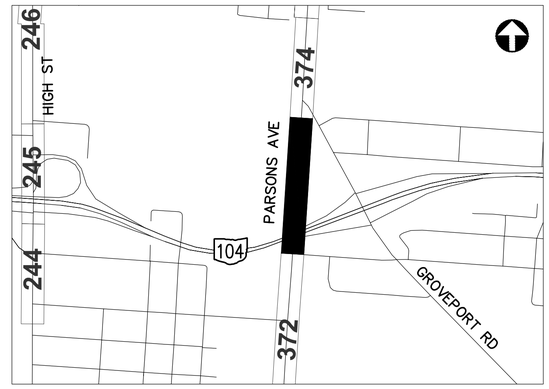
NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEET 610 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

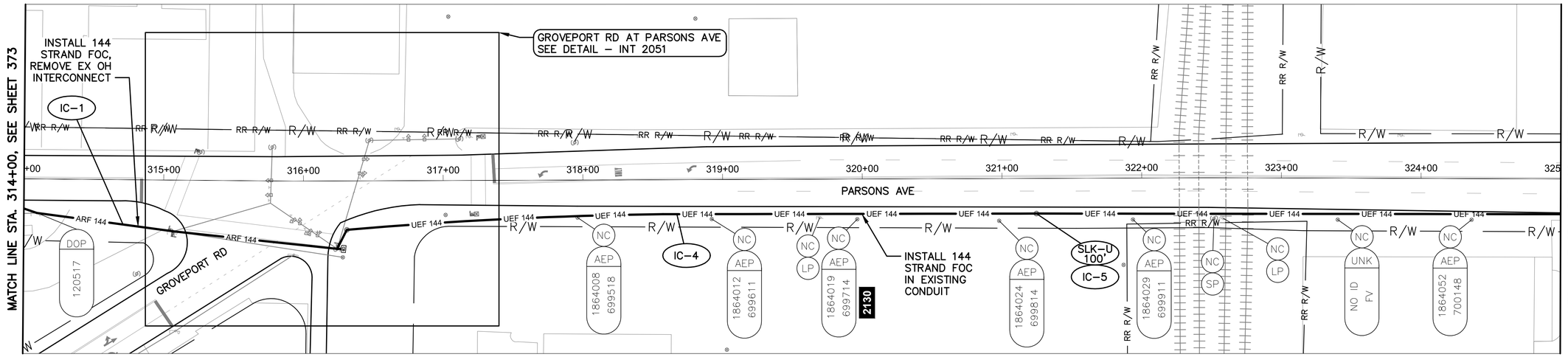
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 299+00 AND 314+00

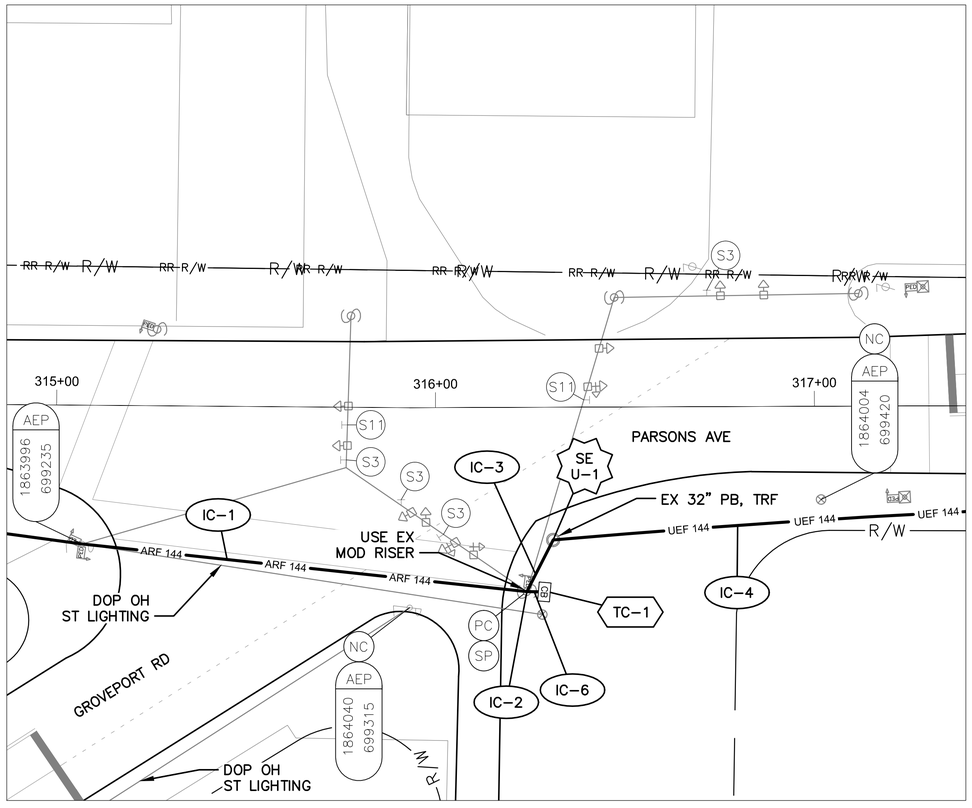
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

373
911

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PARSONS AVE BETWEEN STATION 314+00 AND 325+00



DETAIL - INT 2051

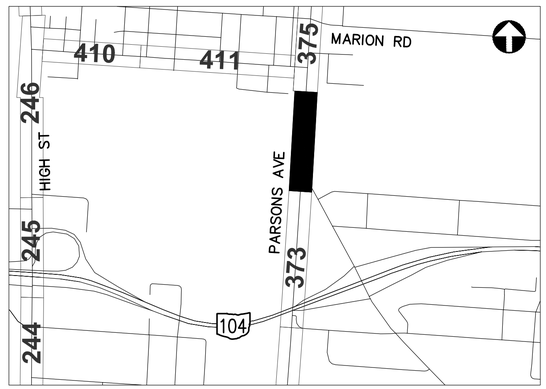
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEETS 610 & 789 FOR COMMUNICATION DETAILS.
3. CONTRACTOR AT OWN COST MAY CUT 144 STRAND FOC AND TERMINATE ALL AT PROPOSED SPLICE ENCLOSURE. CONTRACTOR MUST NOTIFY ENGINEER FIRST.
4. SET NEW DEAD–END BOLT UNDER BOTTOM EXISTING 3–BOLT CLAMP AT POLE 1863996 699235

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CALL TOLL FREE 800–362–2764
OHIO UTILITIES PROTECTION SERVICE

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

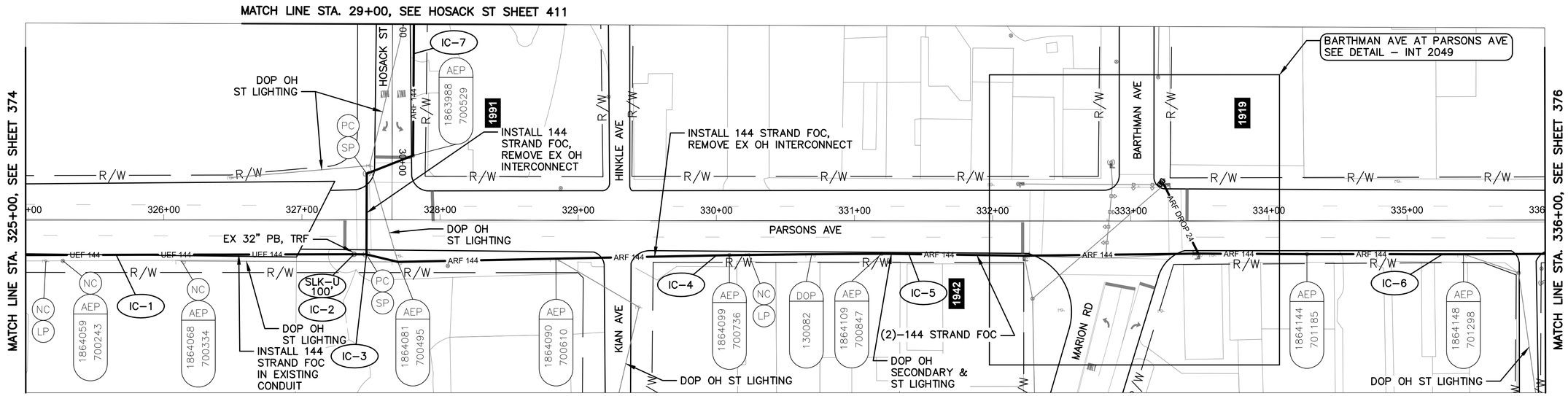
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 314+00 AND 325+00, INT 2051

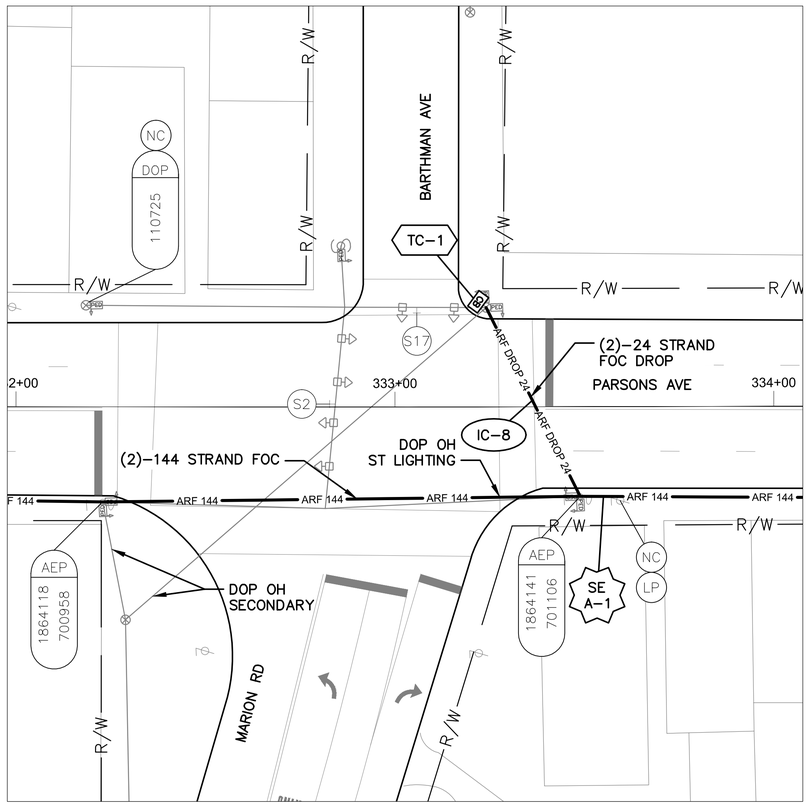
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

374
911

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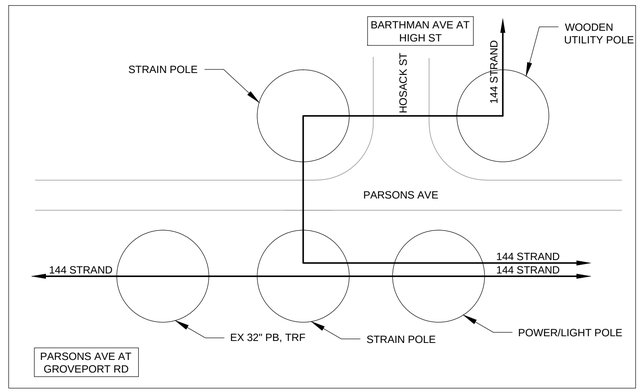
PARSONS AVE BETWEEN STATION 325+00 AND 336+00



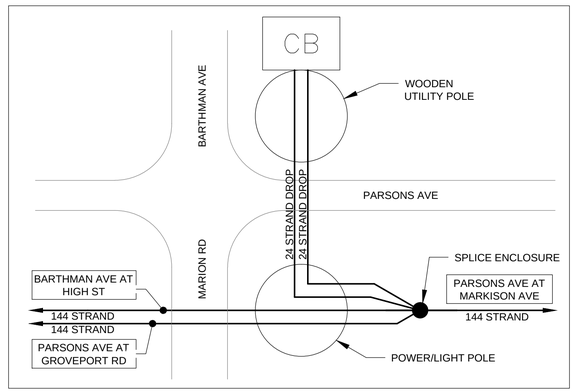
DETAIL - INT 2049

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE



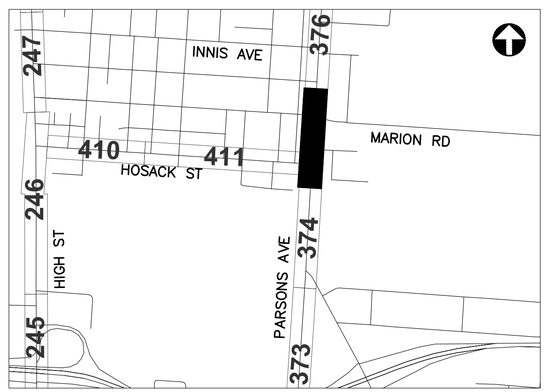
CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEETS 610, 790 & 791 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2049, 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET 0 40 80

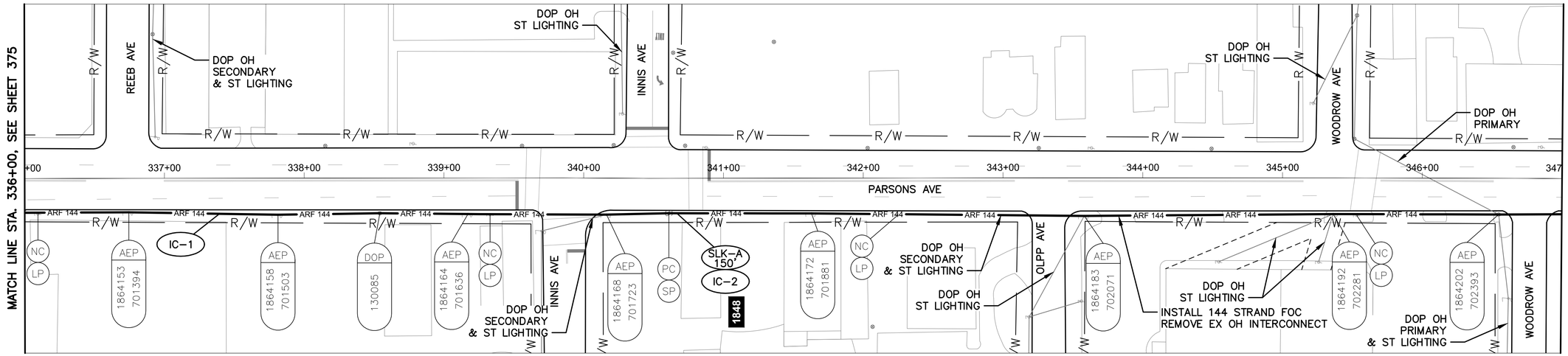
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 325+00 AND 336+00, INTS 2049

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

375
911

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PARSONS AVE BETWEEN STATION 336+00 AND 347+00

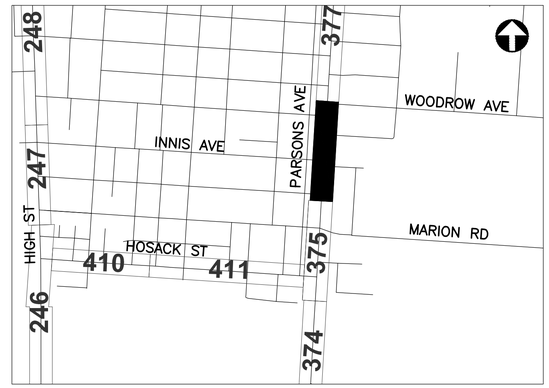
NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEET 610 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

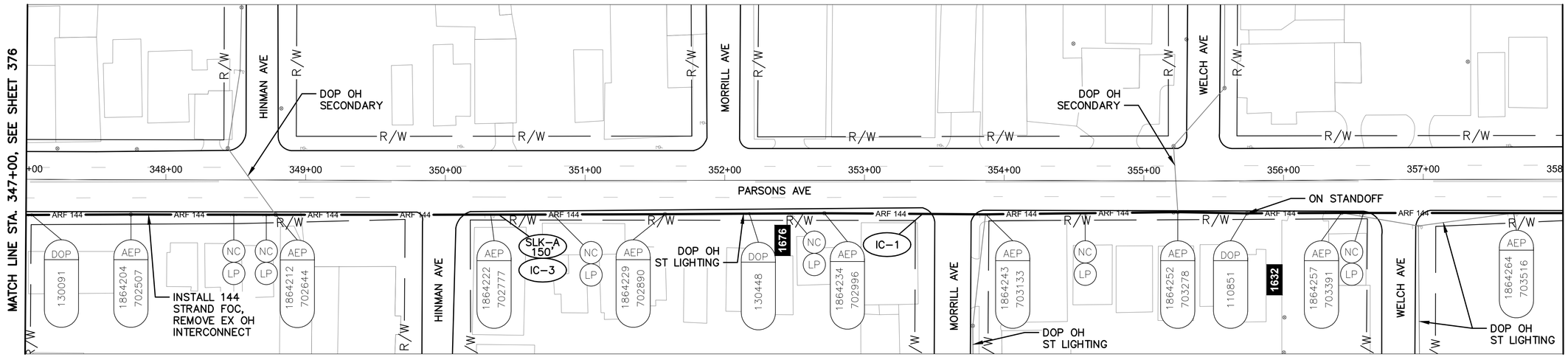
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 336+00 AND 347+00

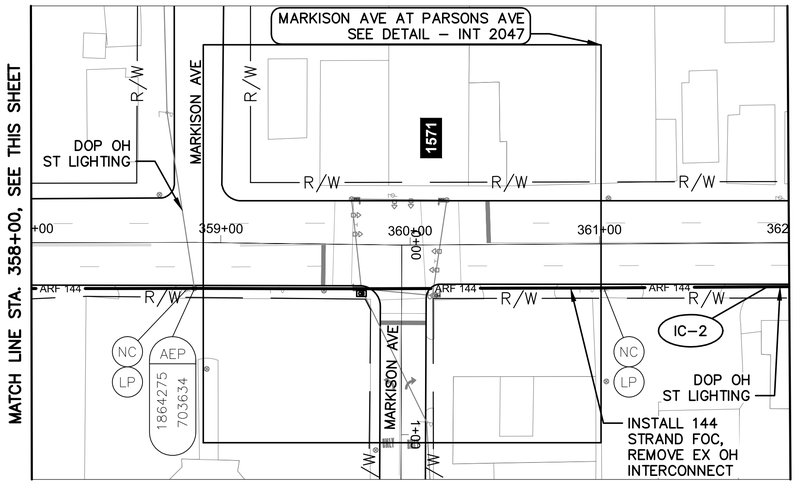
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

376
911

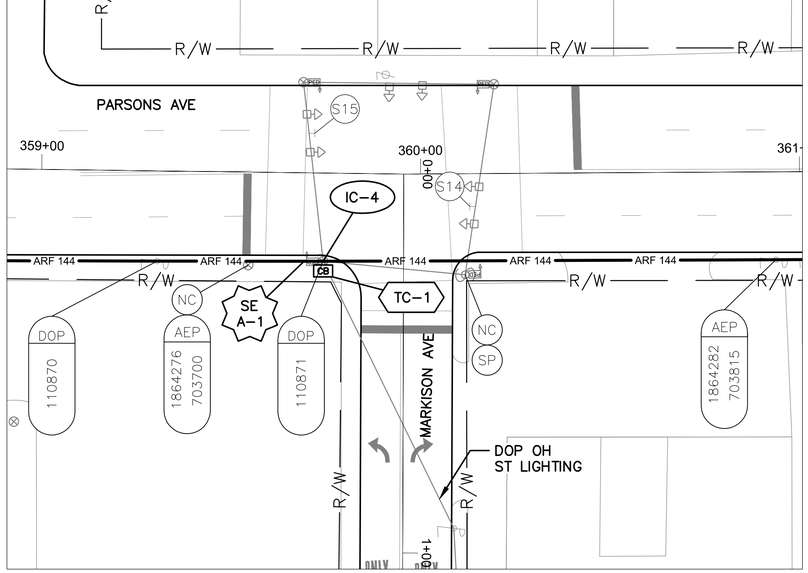
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PARSONS AVE BETWEEN STATION 347+00 AND 358+00



PARSONS AVE BETWEEN STATION 358+00 AND 362+00



DETAIL - INT 2047

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 378 FOR QUANTITIES.
2. SEE SHEETS 610 & 792 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 347+00 AND 362+00, INT 2047

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

377
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, 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	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	EACH	FT	EACH	EACH	EACH	EACH
PARSONS AVE. BETWEEN STA. 282+00 AND 299+00, INT 2080																
372	IC-1	PARSONS AVE	282+00, 17' LT	291+24, 21' LT		942	928					942				
372	IC-3	PARSONS AVE	283+57, 17' LT			150										
372	SE A-1	PARSONS AVE	291+24, 21' LT			150		1								
372	IC-2	PARSONS AVE	291+24, 21' LT	299+00, 18' LT		788	776					788				
372	IC-6	PARSONS AVE	291+24, 21' LT	291+25, 32' RT							1	55				
372	TC-1	PARSONS AVE	291+25, 32' RT										2	1		1
372	IC-4	PARSONS AVE	293+16, 20' LT			150										
372	IC-5	PARSONS AVE	297+50, 19' LT			150										
PARSONS AVE. BETWEEN STA. 299+00 AND 314+00																
373	IC-1	PARSONS AVE	299+00, 18' LT	314+00, 21' RT		1530	1507					1530				
373	IC-2	PARSONS AVE	302+37, 18' LT			150										
373	IC-3	PARSONS AVE	307+98, 19' LT			150										
373	IC-4	PARSONS AVE	312+77, 19' LT			150										
PARSONS AVE. BETWEEN STA. 314+00 AND 325+00, INT 2051																
374	IC-1	PARSONS AVE	314+00, 21' RT	316+23, 49' RT		229	226					229				
374	IC-2	PARSONS AVE	316+23, 49' RT			35										
374	IC-3	PARSONS AVE	316+23, 49' RT	316+30, 35' RT	15	15										
374	TC-1	PARSONS AVE	316+28, 49' RT										2	1	1	
374	IC-6	PARSONS AVE	316+28, 49' RT	316+30, 35' RT	14					1						
374	SE U-1	PARSONS AVE	316+30, 35' RT			150		1								
374	IC-4	PARSONS AVE	316+30, 35' RT	325+00, 25' RT	869	869										
374	IC-5	PARSONS AVE	321+24, 25' RT			100										
PARSONS AVE. BETWEEN STA. 325+00 AND 336+00, INT 2049																
375	IC-1	PARSONS AVE	325+00, 25' RT	327+46, 25' RT	247	247										
375	IC-2	PARSONS AVE	327+37, 25' RT			100										
375	IC-7	PARSONS AVE	327+46, 25' RT	327+80, 142' LT		193	190					193				
375	IC-3	PARSONS AVE	327+46, 25' RT			35										
375	IC-4	PARSONS AVE	327+46, 25' RT	333+48, 24' RT		612	603									
375	IC-5	PARSONS AVE	327+46, 25' RT	333+48, 24' RT		612										
375	TC-1	PARSONS AVE	333+24, 26' LT										2	1		1
375	IC-8	PARSONS AVE	333+24, 26' LT	333+48, 24' RT		56				2						
375	SE A-1	PARSONS AVE	333+48, 24' RT			375			1							
375	IC-6	PARSONS AVE	333+48, 24' RT	336+00, 24' RT		255	251									
PARSONS AVE. BETWEEN STA. 336+00 AND 347+00																
376	IC-1	PARSONS AVE	336+00, 24' RT	347+00, 26' RT		1117	1100					1117				
376	IC-2	PARSONS AVE	340+60, 25' RT			150										
PARSONS AVE. BETWEEN STA. 347+00 AND 362+00, INT 2047																
377	IC-1	PARSONS AVE	347+00, 26' RT	359+74, 23' RT		1294	1275					1294				
377	IC-3	PARSONS AVE	350+38, 24' RT			150										
377	IC-4	PARSONS AVE	359+74, 23' RT	360+19, 24' LT			65				1	66				
377	SE A-1	PARSONS AVE	359+74, 23' RT			150		1								
377	IC-2	PARSONS AVE	359+74, 23' RT	362+00, 23' RT		229	226					229				
377	TC-1	PARSONS AVE	360+19, 24' LT										2	1		1
SHEET TOTAL					1145	11227	7203	3	1	1	4	6443	9	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.

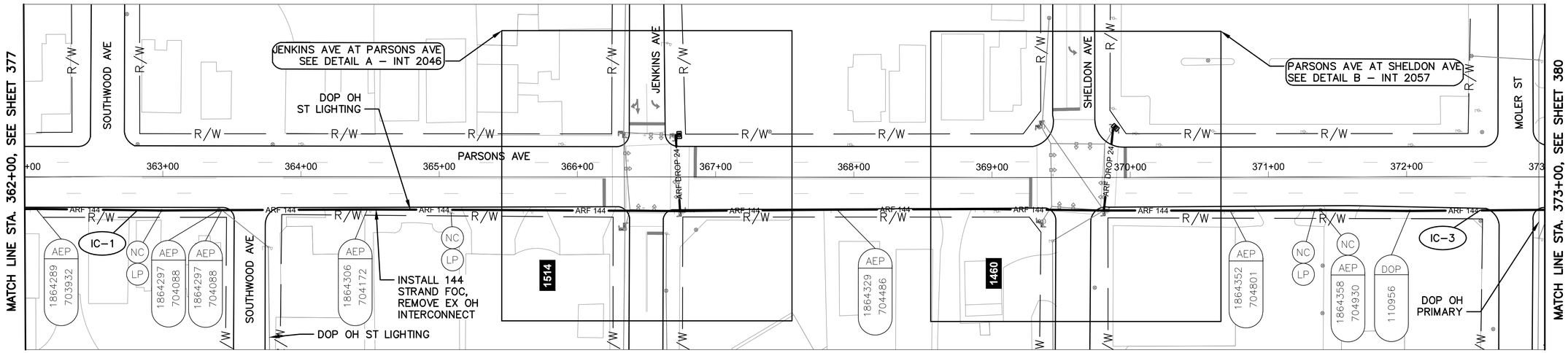
2953-E

CIP: 540007–100005
PID NUMBER: 14522

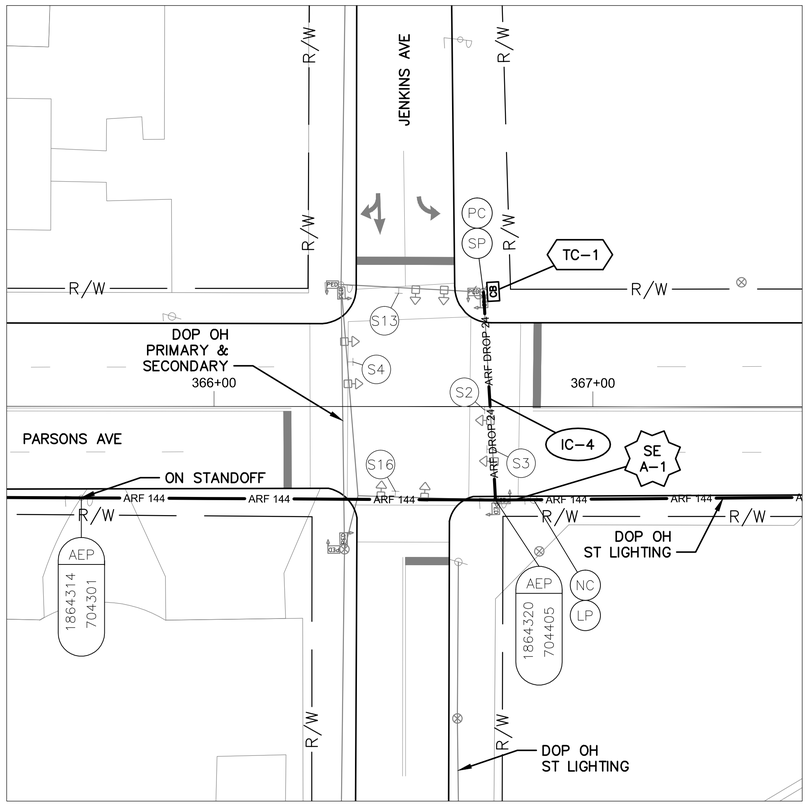
PARSONS AVE. BTW STA. 282+00 & 362+00
INTS 2080, 2051, 2049, 2047

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

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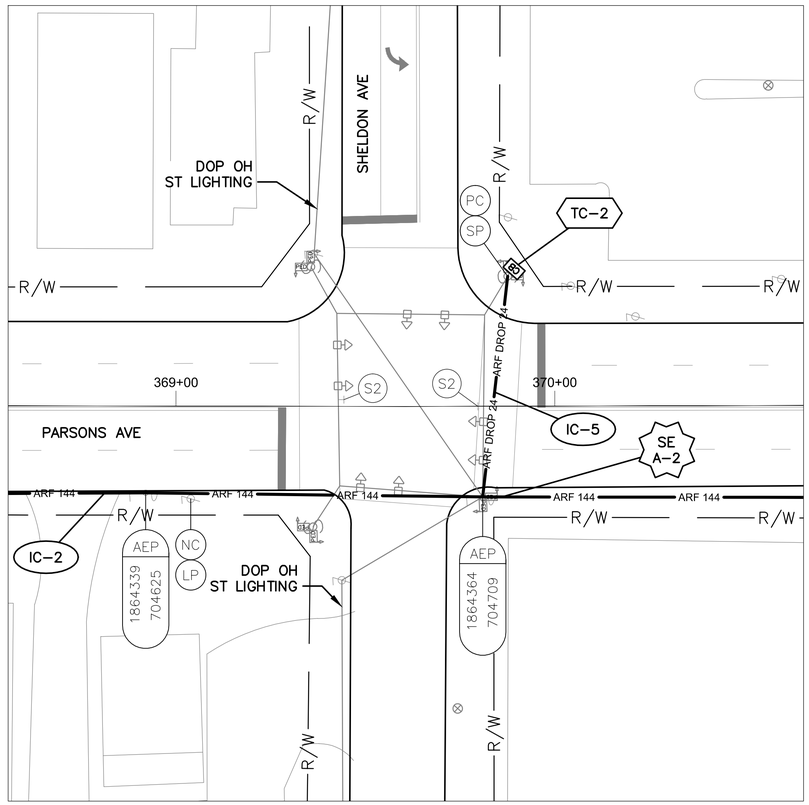


PARSONS AVE BETWEEN STATION 362+00 AND 373+00



DETAIL A - INT 2046

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 2057

0 20 40
HORIZONTAL
SCALE IN FEET

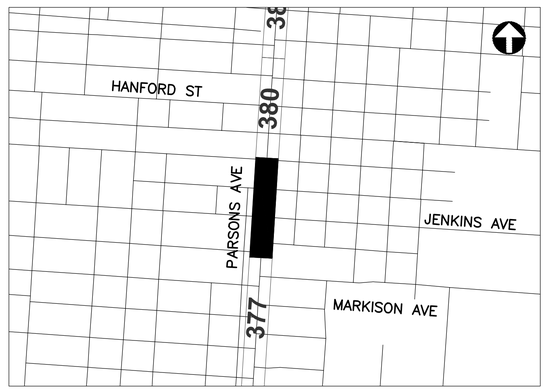
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 610, 793 & 794 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 2046 FOR FUTURE DoT USE.

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CITY OF COLUMBUS UTILITY LEGEND

☐	SEWER
☐	WATER
☒	POWER
☒	LIGHTING



REFER TO SHEET 270 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

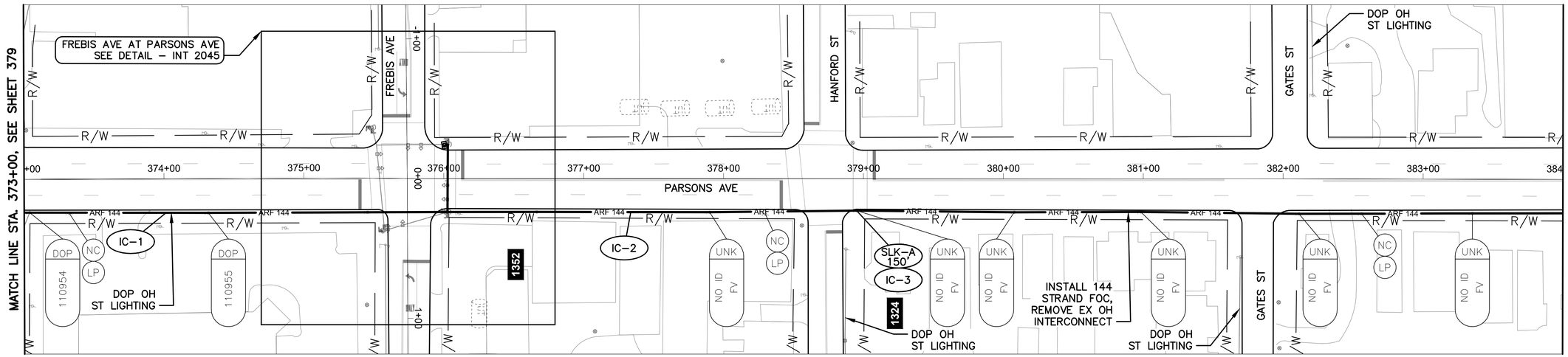
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 362+00 AND 373+00, INTS 2046 & 2057

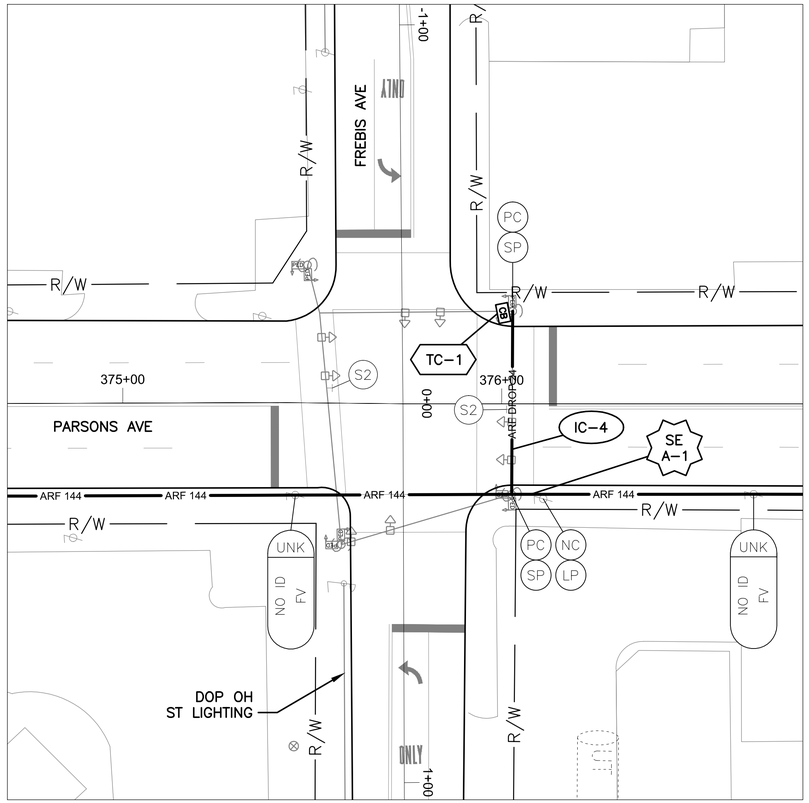
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

379
911

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PARSONS AVE BETWEEN STATION 373+00 AND 384+00



DETAIL - INT 2045

0 20 40
HORIZONTAL
SCALE IN FEET

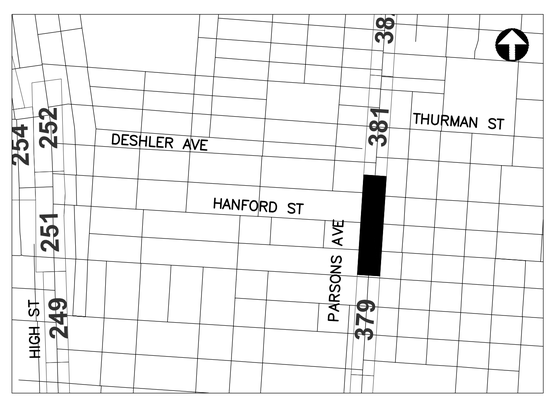
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 608 & 795 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

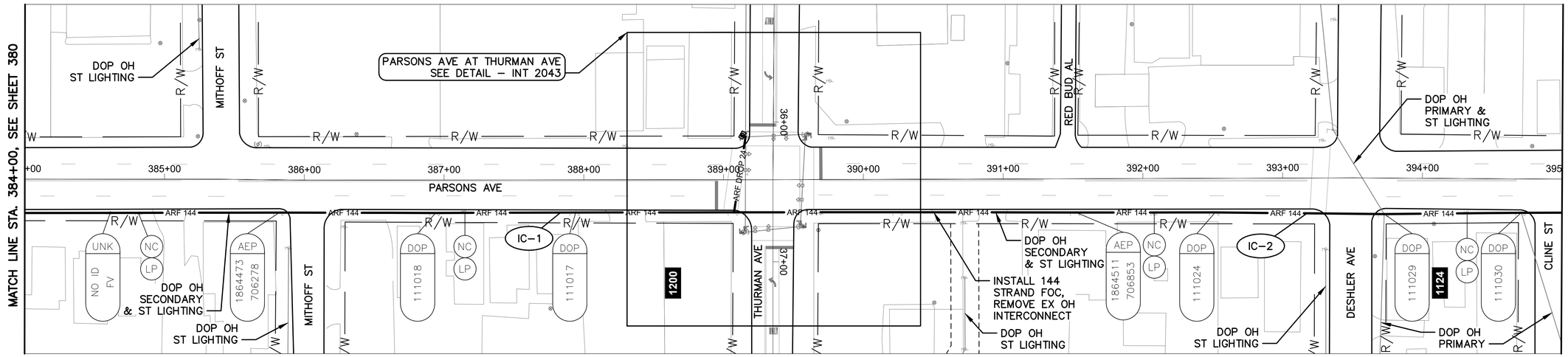
INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 373+00 AND 384+00, INT 2045

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

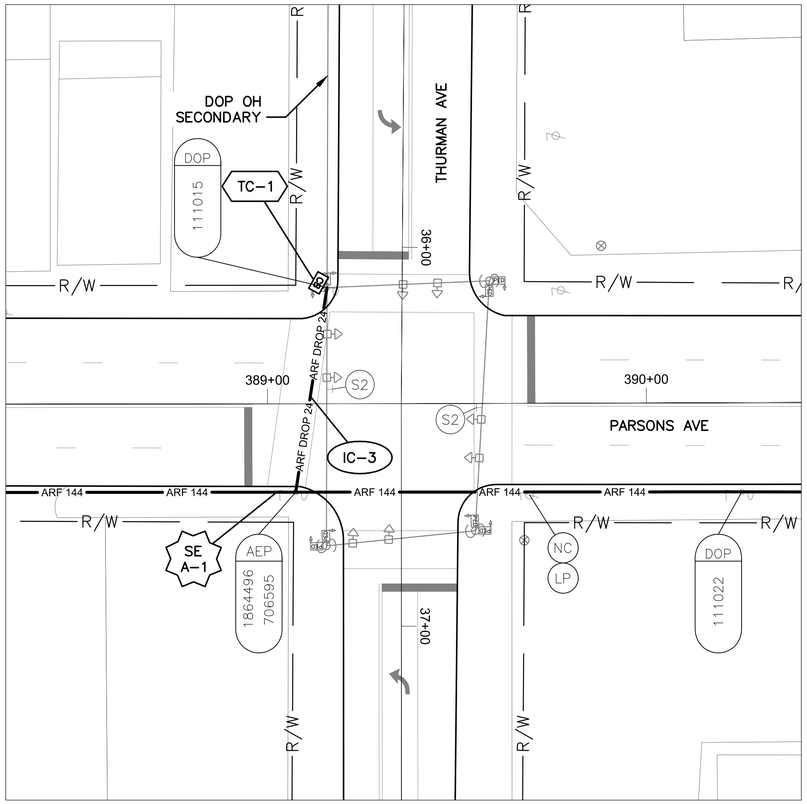
380
911

2953-E

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PARSONS AVE BETWEEN STATION 384+00 AND 395+00



DETAIL - INT 2043

0 20 40

HORIZONTAL SCALE IN FEET

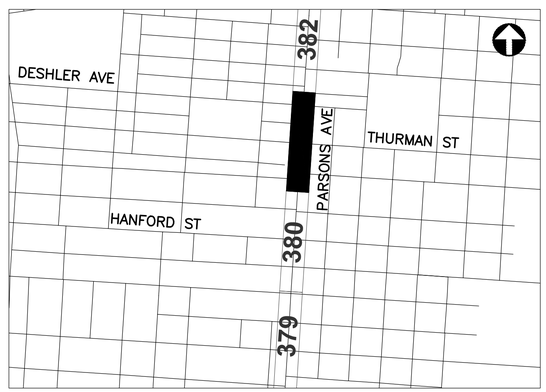
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 608 & 796 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

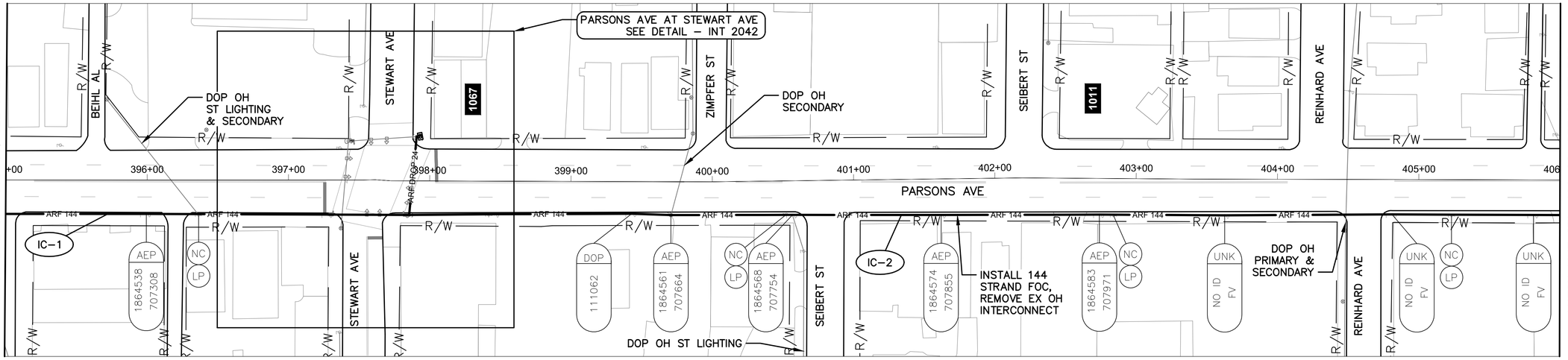
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 384+00 AND 395+00, INT 2043

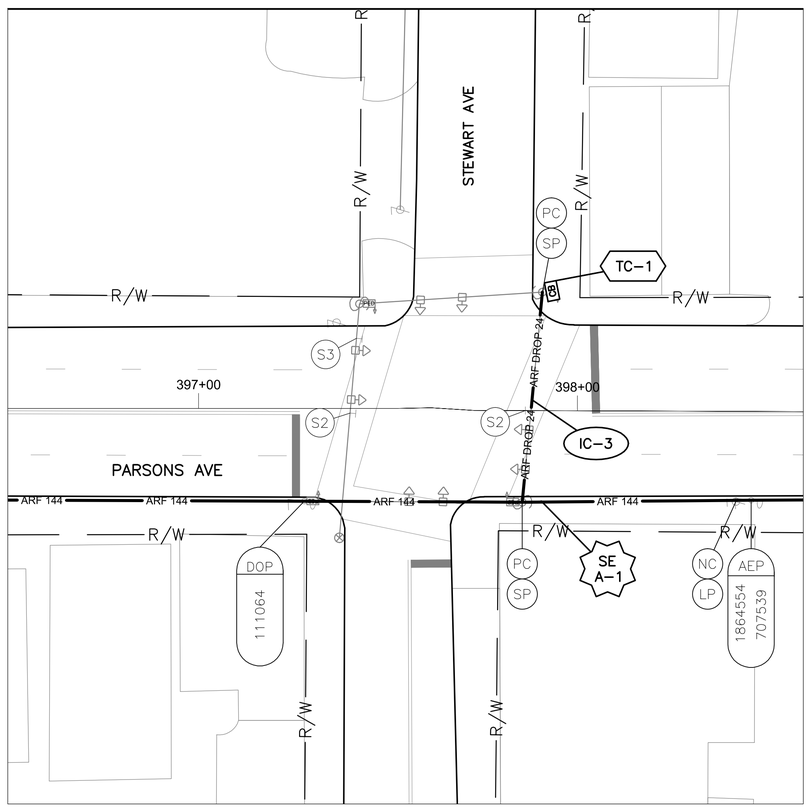
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

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911

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PARSONS AVE BETWEEN STATION 395+00 AND 406+00



DETAIL - INT 2042

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 608 & 797 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

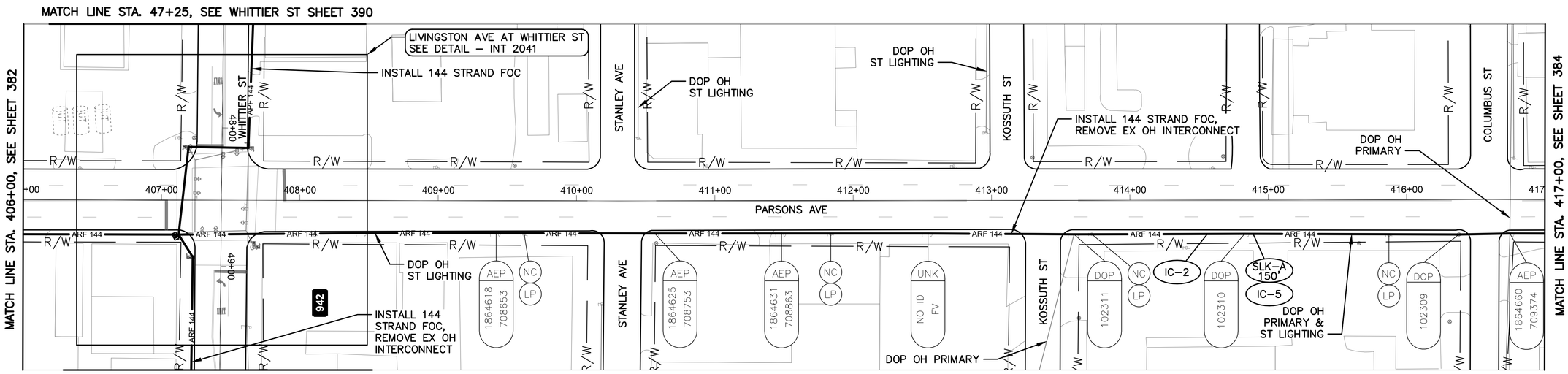
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 395+00 AND 406+00, INT 2042

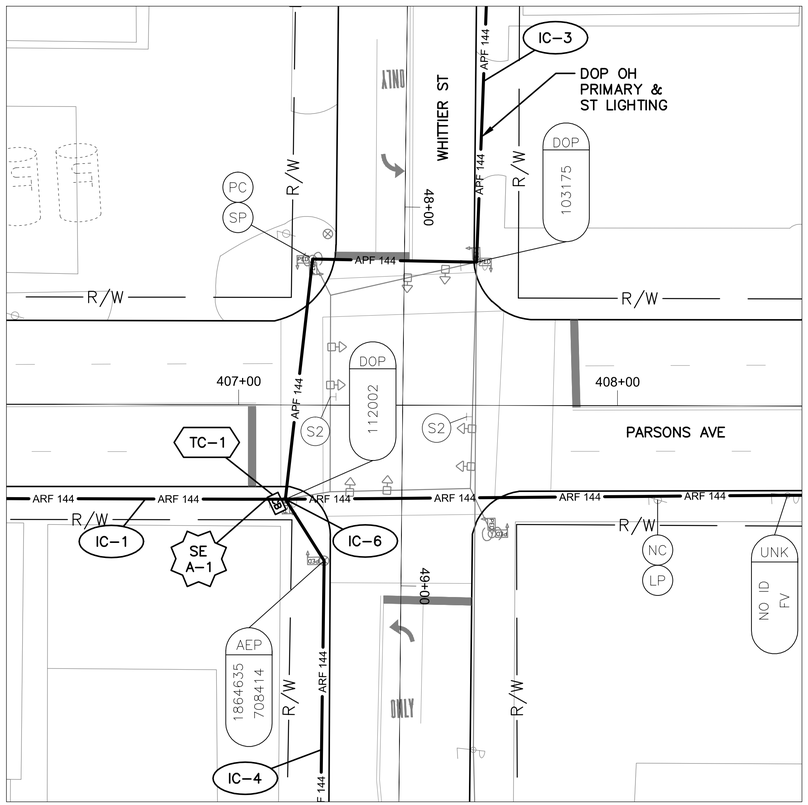
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

382
911

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PARSONS AVE BETWEEN STATION 406+00 AND 417+00



DETAIL - INT 2041

0 20 40

HORIZONTAL SCALE IN FEET

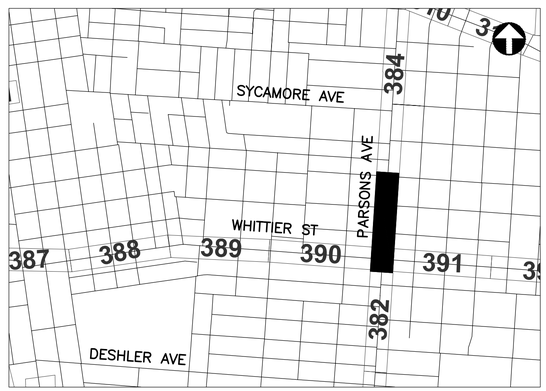
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 608 & 778 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2041, PROVIDE 75' OF SLACK FROM ALL FOUR DIRECTIONS FOR THE 300' TOTAL.

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- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

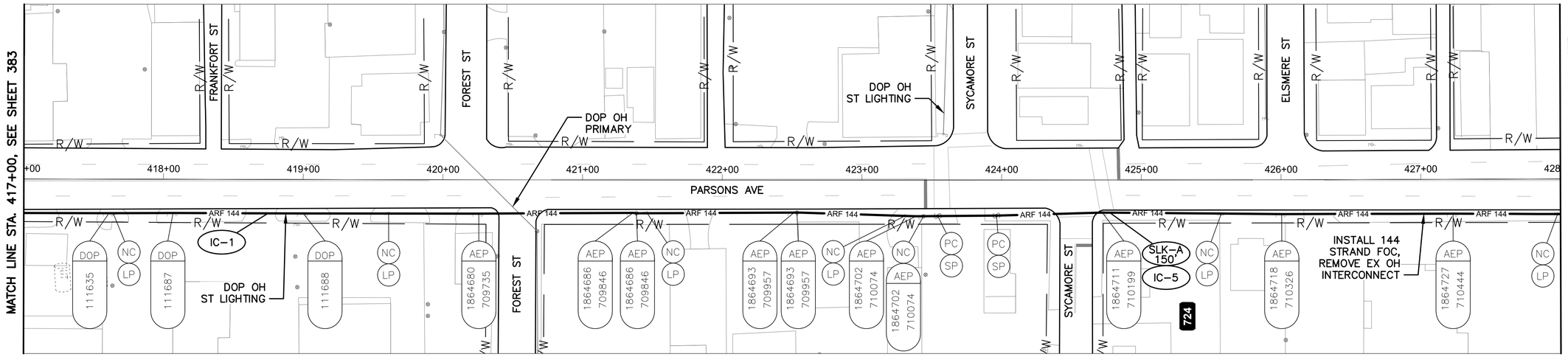
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 406+00 AND 417+00, INT 2041

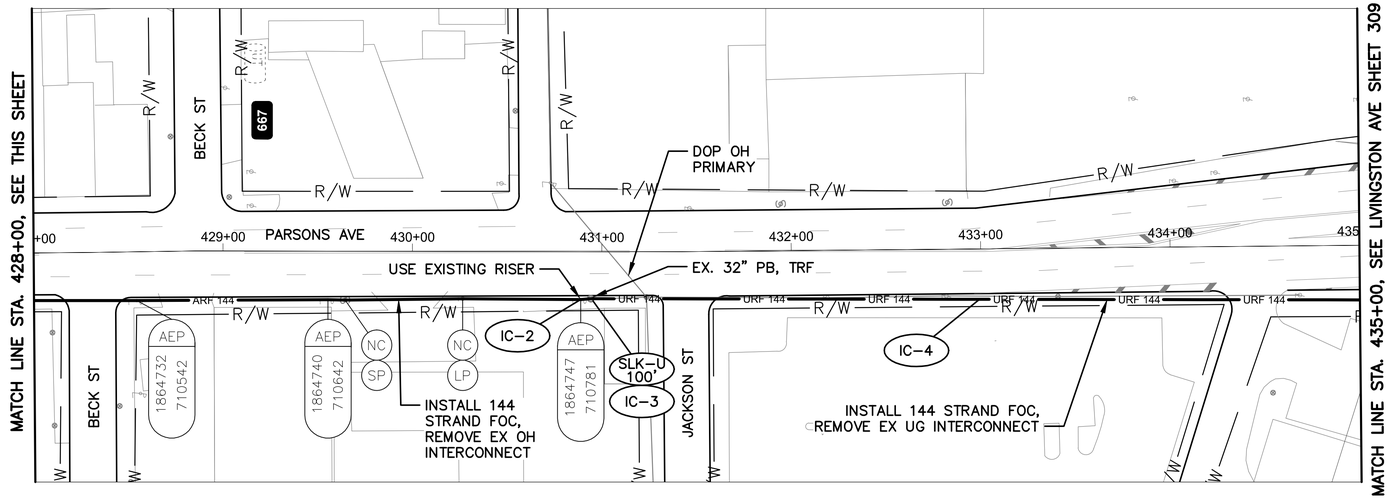
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

383
911

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PARSONS AVE BETWEEN STATION 417+00 AND 428+00



PARSONS AVE BETWEEN STATION 428+00 AND 435+00

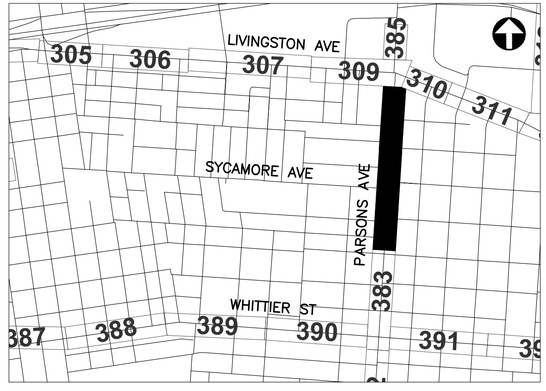
NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEET 608 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

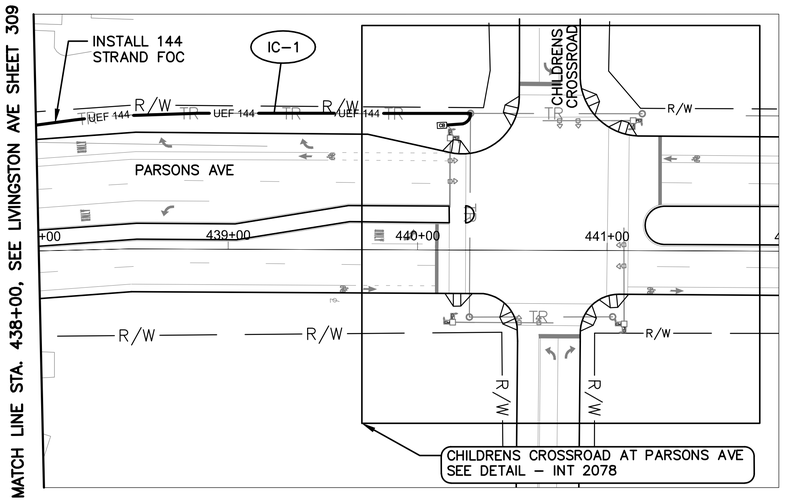
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PID NUMBER: 14522

INTERCONNECT PLAN
PARSONS AVE BETWEEN STA. 417+00 AND 435+00

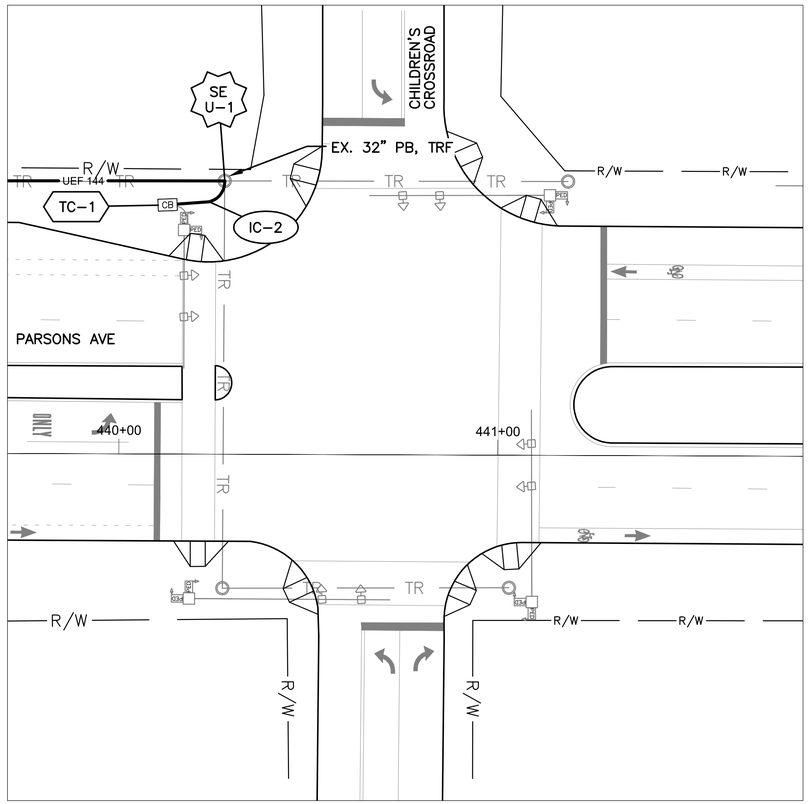
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

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911

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PARSONS AVE BETWEEN STATION 438+00 AND 441+90



DETAIL - INT 2078

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 386 FOR QUANTITIES.
2. SEE SHEETS 608 & 798 FOR COMMUNICATION DETAILS.

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- ☐ WATER
- ☐ POWER
- ☒ LIGHTING



REFER TO SHEET 270 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
PARSONS AVE BETWEEN STA. 438+00 AND 441+90, INT 2078

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

385
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	632	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, 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	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	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH							
PARSONS AVE. BETWEEN STA. 362+00 AND 373+00, INTS 2046 & 2057																								
379	IC-1	PARSONS AVE	362+00, 23' RT	366+74, 25' RT		481	474							481										
379	TC-1	PARSONS AVE	366+71, 30' LT												2	1	1							
379	IC-4	PARSONS AVE	366+71, 30' LT	366+74, 25' RT			55						1	56										
379	SE A-1	PARSONS AVE	366+74, 25' RT			300				1														
379	IC-2	PARSONS AVE	366+74, 25' RT	369+80, 24' RT		312	307							312										
379	IC-5	PARSONS AVE	369+80, 24' RT	369+87, 34' LT			59						1	60										
379	SE A-2	PARSONS AVE	369+80, 24' RT			150				1														
379	IC-3	PARSONS AVE	369+80, 24' RT	373+00, 24' RT		324	319							324										
379	TC-2	PARSONS AVE	369+87, 34' LT												2	1	1							
PARSONS AVE. BETWEEN STA. 373+00 AND 384+00, INT 2045																								
380	IC-1	PARSONS AVE	373+00, 24' RT	376+02, 24' RT		308	303							308										
380	TC-1	PARSONS AVE	376+02, 24' LT												2	1	1							
380	SE A-1	PARSONS AVE	376+02, 24' RT			150				1														
380	IC-4	PARSONS AVE	376+02, 24' RT	376+02, 24' LT			48						1	49										
380	IC-2	PARSONS AVE	376+02, 24' RT	384+00, 24' RT		810	798							810										
380	IC-3	PARSONS AVE	379+95, 23' RT			150																		
PARSONS AVE. BETWEEN STA. 384+00 AND 395+00, INT 2043																								
381	IC-1	PARSONS AVE	384+00, 24' RT	389+07, 23' RT		515	507							515										
381	IC-3	PARSONS AVE	389+07, 23' RT	389+15, 31' LT			55						1	56										
381	SE A-1	PARSONS AVE	389+07, 23' RT			150				1														
381	IC-2	PARSONS AVE	389+07, 23' RT	395+00, 24' RT		601	592							601										
381	TC-1	PARSONS AVE	389+15, 31' LT												2	1	1							
PARSONS AVE. BETWEEN STA. 395+00 AND 406+00, INT 2042																								
382	IC-1	PARSONS AVE	395+00, 24' RT	397+85, 24' RT		290	286							290										
382	IC-2	PARSONS AVE	397+85, 24' RT	406+00, 25' RT		826	814							826										
382	SE A-1	PARSONS AVE	397+85, 24' RT			150				1														
382	IC-3	PARSONS AVE	397+85, 24' RT	397+91, 31' LT			56						1	57										
382	TC-1	PARSONS AVE	397+91, 31' LT												2	1	1							
PARSONS AVE. BETWEEN STA. 406+00 AND 417+00, INT 2041																								
383	IC-1	PARSONS AVE	406+00, 25' RT	407+12, 25' RT		114	112							114										
383	IC-3	PARSONS AVE	407+12, 25' RT	407+21, 123' LT		201								201										
383	SE A-1	PARSONS AVE	407+12, 25' RT			300					1													
383	IC-6	PARSONS AVE	407+12, 25' RT	407+12, 25' RT								2												
383	TC-1	PARSONS AVE	407+12, 25' RT												4	1	1							
383	IC-4	PARSONS AVE	407+12, 25' RT	407+66, 127' RT		102	100							102										
383	IC-2	PARSONS AVE	407+12, 25' RT	417+00, 24' RT		1003	988							1003										
383	IC-5	PARSONS AVE	414+89, 24' RT			150																		
PARSONS AVE. BETWEEN STA. 417+00 AND 435+00																								
384	IC-1	PARSONS AVE	417+00, 24' RT	430+88, 25' RT		1410	1389							1410										
384	IC-5	PARSONS AVE	424+77, 23' RT			150																		
384	IC-4	PARSONS AVE	430+88, 25' RT	435+00, 29' RT	411	411		411																
384	IC-2	PARSONS AVE	430+88, 25' RT			35																		
384	IC-3	PARSONS AVE	430+93, 25' RT			100																		
PARSONS AVE. BETWEEN STA. 438+00 AND 441+90, INT 2078																								
385	IC-1	PARSONS AVE	438+00, 66' LT	441+18, 72' LT	321	321																		
385	TC-1	PARSONS AVE	440+12, 66' LT												2	1	1							
385	IC-2	PARSONS AVE	440+12, 66' LT	440+27, 72' LT	18								1											
385	SE U-1	PARSONS AVE	440+27, 72' LT			75			1															
SHEET TOTAL					750	9889	7262	411	1	5	1	2	6	7575	16	7	7	-	-	-	-	-	-	-

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

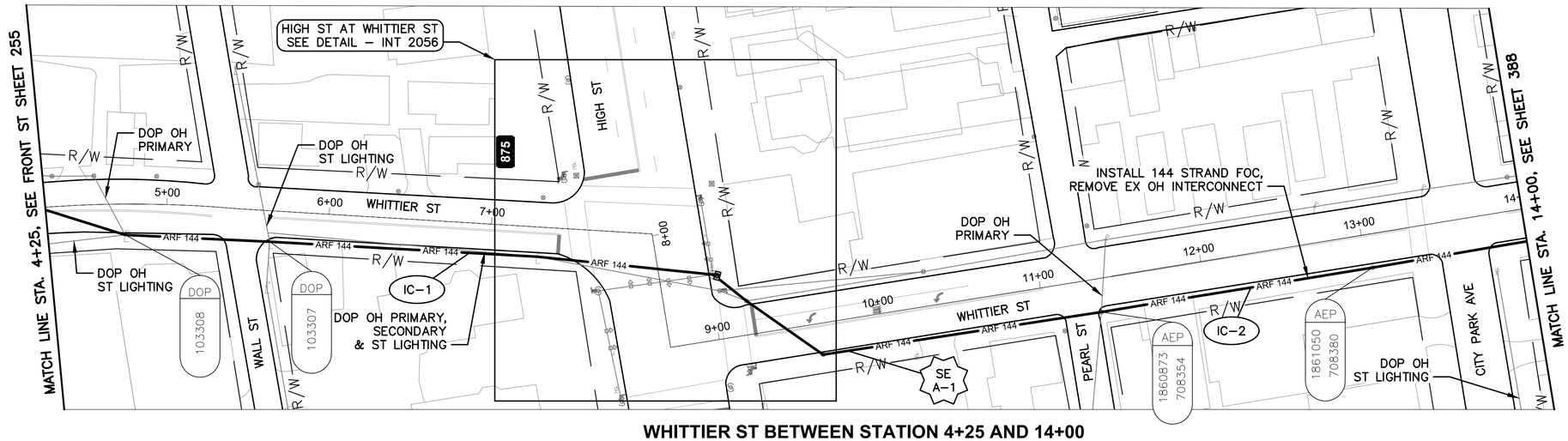
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PID NUMBER: 14522

PARSONS AVE. BTW STA. 362+00 & 441+90
INTS 2046, 2057, 2043, 2042, 2041, 2078

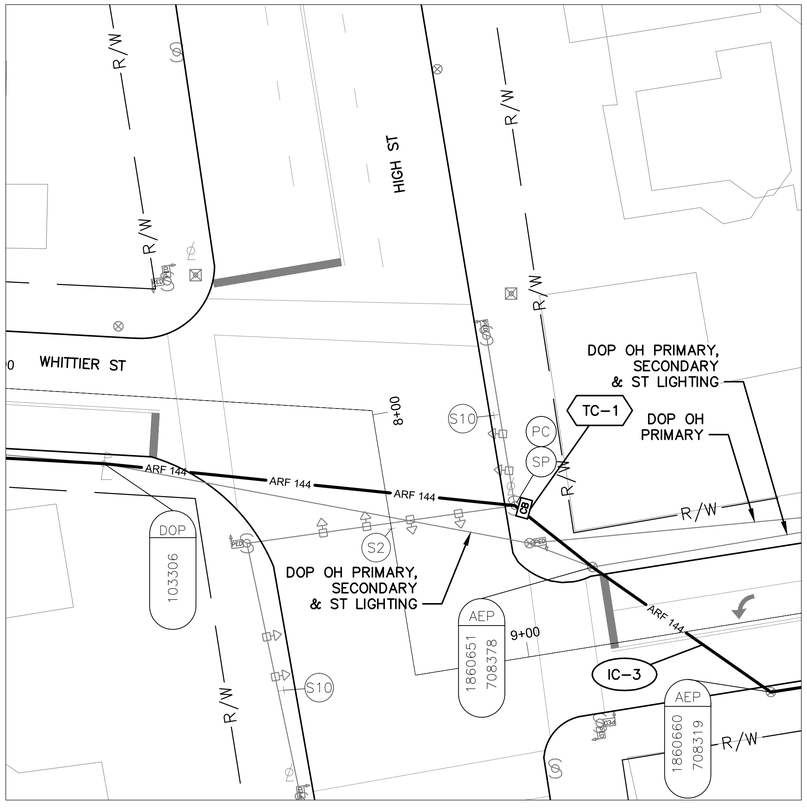
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

386
911

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WHITTIER ST BETWEEN STATION 4+25 AND 14+00



DETAIL - INT 2056

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEETS 608 & 735 FOR COMMUNICATION DETAILS.
3. EXISTING IC ATTACHES BELOW SIGNAL SPAN, BUT PROPOSED FOC WILL ATTACH ABOVE SIGNAL SPAN AT INT 2056.

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- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

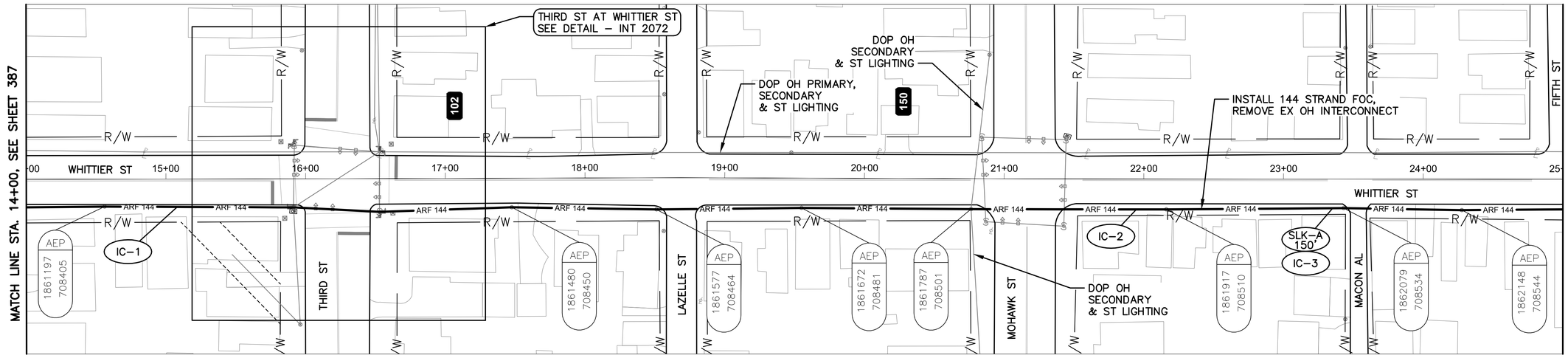
INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 4+25 AND 14+00, INT 2056

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

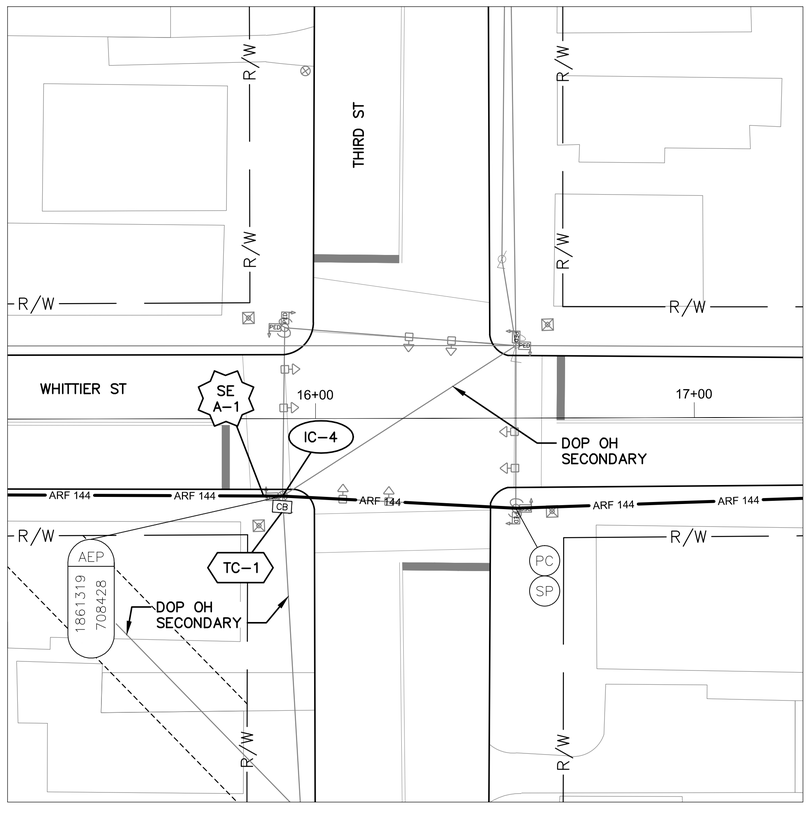
387
911

2953-E

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WHITTIER ST BETWEEN STATION 14+00 AND 25+00



DETAIL - INT 2072

0 20 40
HORIZONTAL SCALE IN FEET

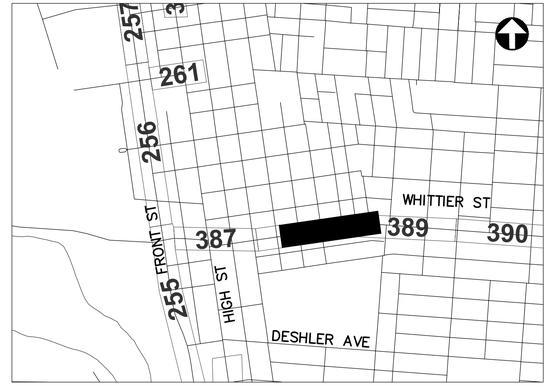
NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEETS 608 & 776 FOR COMMUNICATION DETAILS.
3. AN ADDITIONAL 150' SLACK IS TO BE PROVIDED AT INT 2072 FOR FUTURE DoT USE.

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

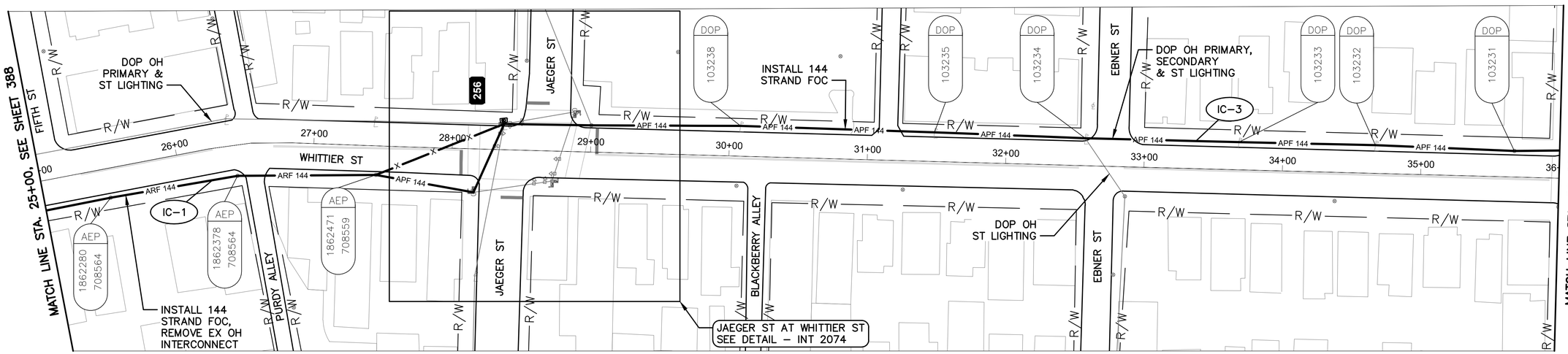
INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 14+00 AND 25+00, INT 2072

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

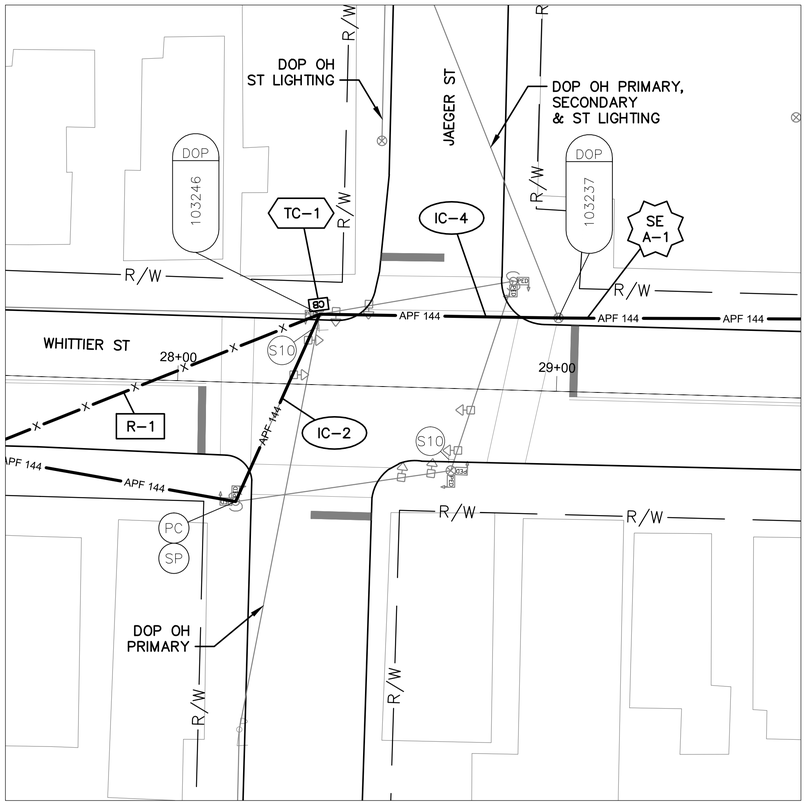
388
911

2953-E

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WHITTIER ST BETWEEN STATION 25+00 AND 36+00



DETAIL - INT 2074

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEETS 608 & 777 FOR COMMUNICATION DETAILS.

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

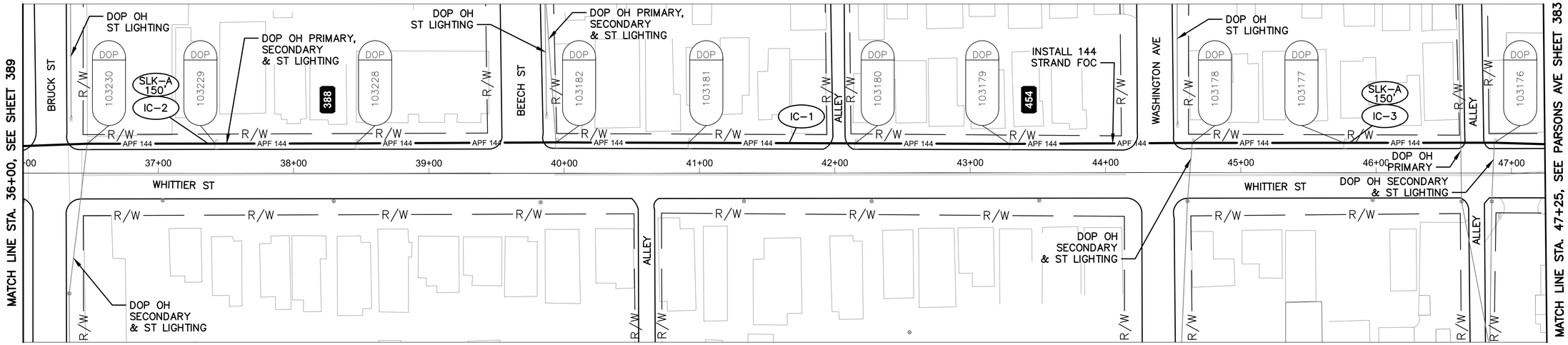
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PID NUMBER: 14522

INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 25+00 AND 36+00, INT 2074

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

389
911

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WHITTIER ST BETWEEN STATION 36+00 AND 47+25

NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEET 608 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

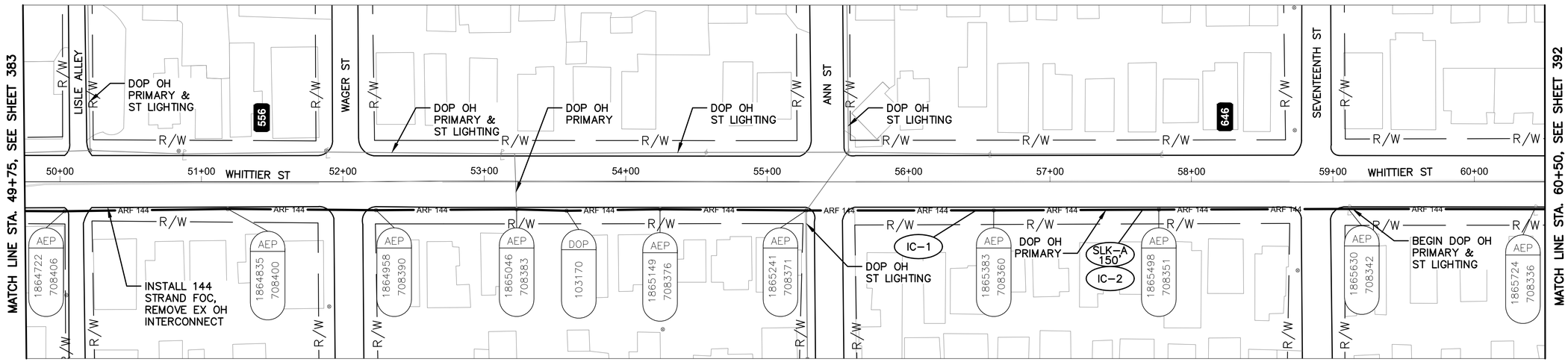
INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 36+00 AND 47+25

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

390
911

2953-E

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WHITTIER ST BETWEEN STATION 49+75 AND 60+50

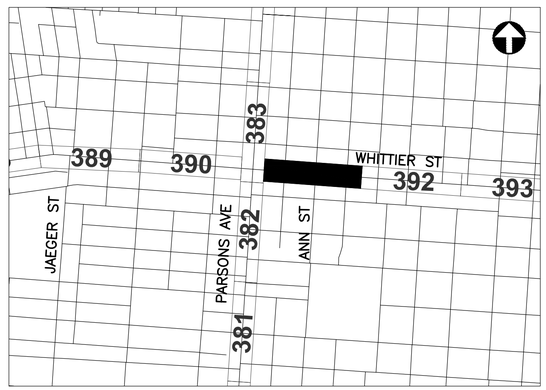
NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEET 608 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

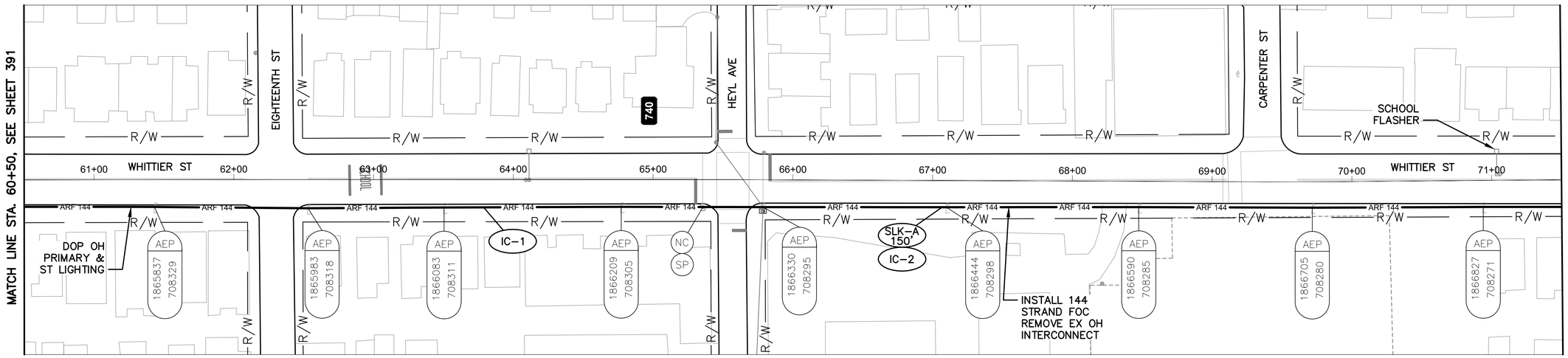
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 49+75 AND 60+50

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

391
911

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WHITTIER ST BETWEEN STATION 60+50 AND 71+50

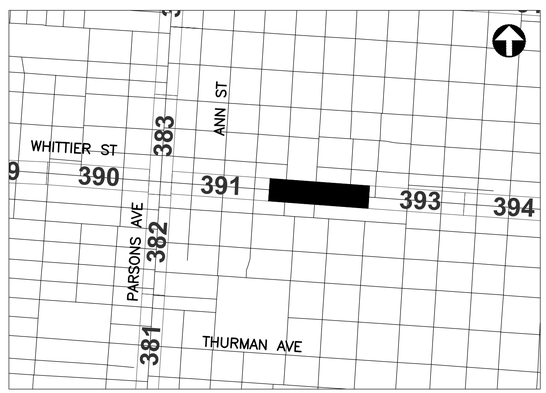
NOTES:

1. SEE SHEET 396 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

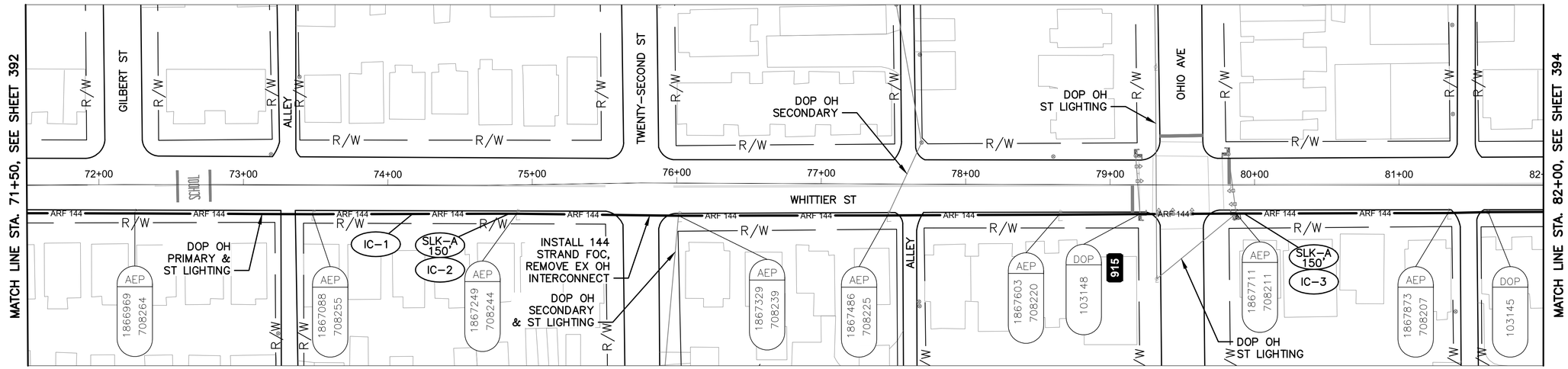
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 60+50 AND 71+50

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

392
911

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WHITTIER ST BETWEEN STATION 71+50 AND 82+00

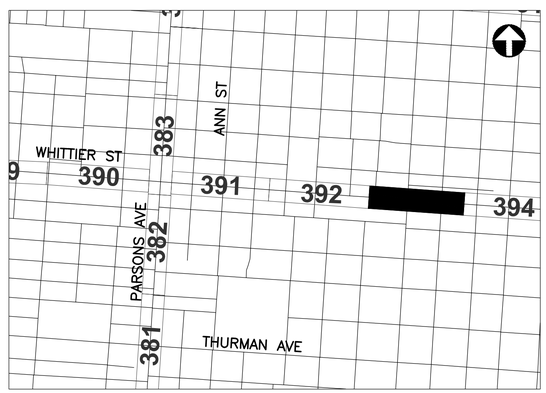
NOTES:

1. SEE SHEET 396 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

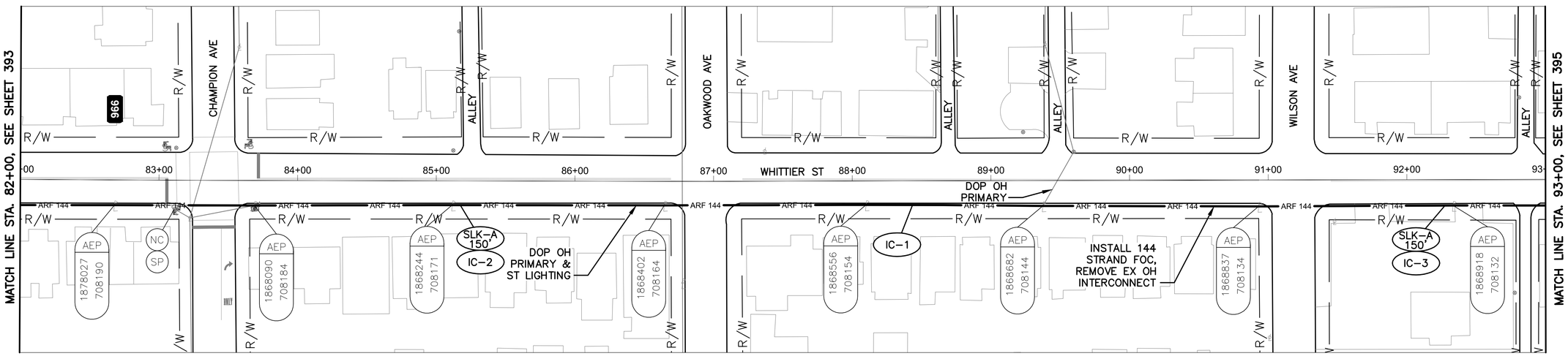
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 71+50 AND 82+00

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

393
911

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WHITTIER ST BETWEEN STATION 82+00 AND 93+00

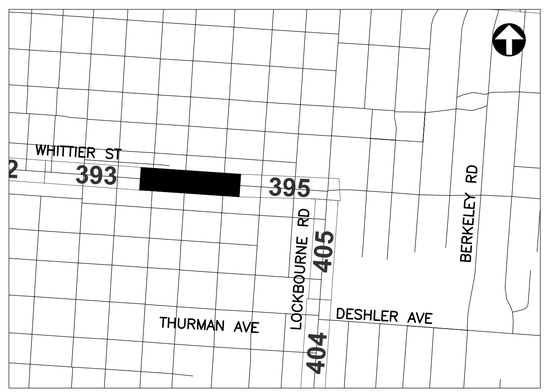
NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEET 609 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

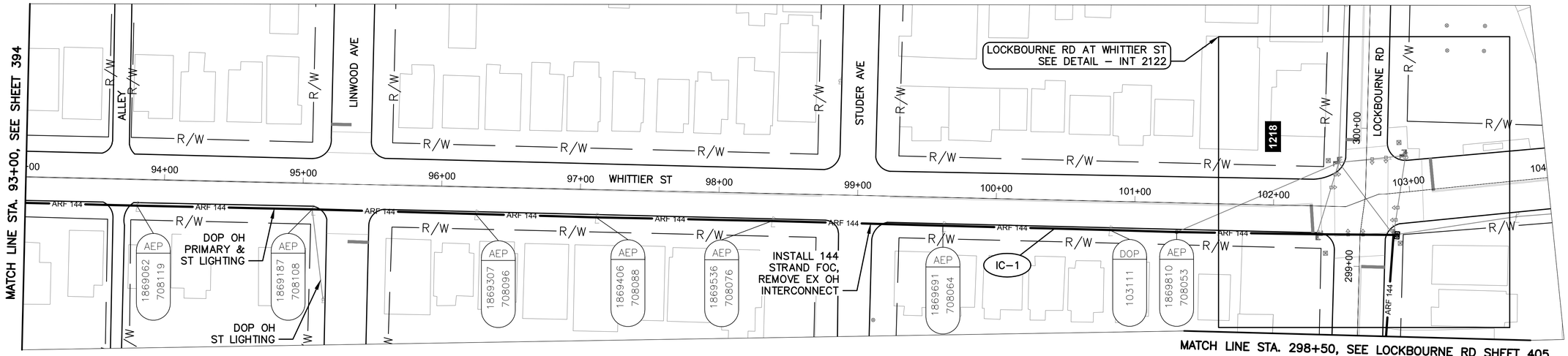
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WHITTIER ST BETWEEN STA. 82+00 AND 93+00

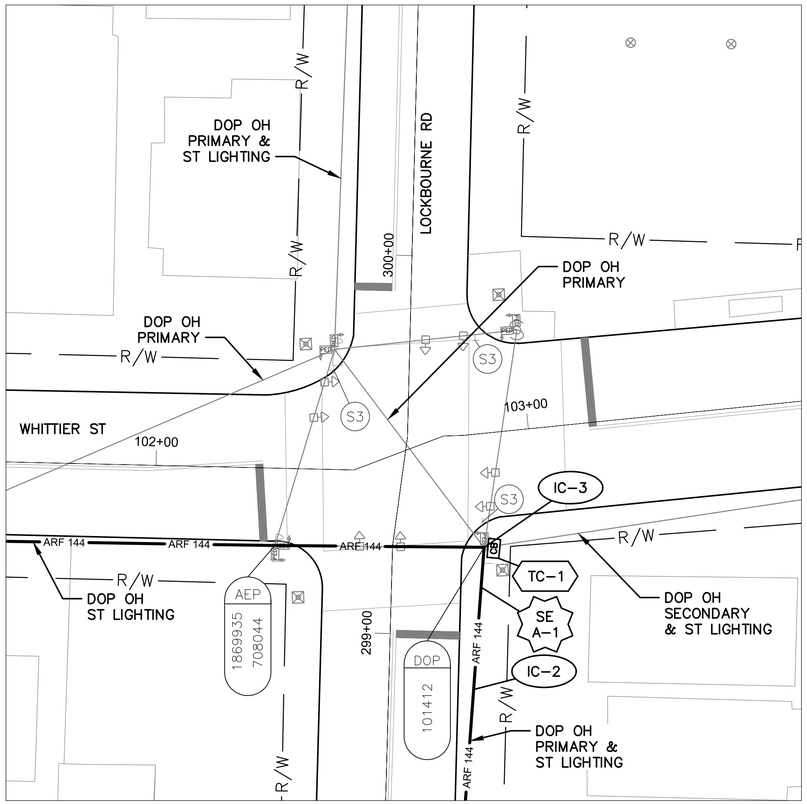
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

394
911

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WHITTIER ST BETWEEN STATION 93+00 AND 104+00



DETAIL - INT 2122

0 20 40

HORIZONTAL
SCALE IN FEET

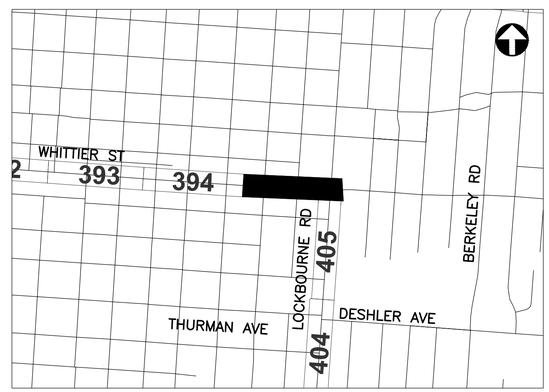
NOTES:

1. SEE SHEET 396 FOR QUANTITIES.
2. SEE SHEETS 609 & 780 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 270 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
WHITTIER ST BETWEEN STA. 93+00 AND 104+00, INT 2122

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

395
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	632	633	633	633	633										
					CONDUIT RISER, 3", 725.04, 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.: 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	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH										
WHITTIER ST. BETWEEN STA. 4+25 AND 14+00, INT 2056																									
387	IC-1	WHITTIER ST	4+25, 2' RT	9+61, 19' RT		505	498				505														
387	IC-3	WHITTIER ST	8+29, 33' LT	9+61, 19' RT						1															
387	TC-1	WHITTIER ST	8+29, 33' LT									2	1		1										
387	IC-2	WHITTIER ST	9+61, 19' RT	14+00, 20' RT		445	438				445														
387	SE A-1	WHITTIER ST	9+61, 19' RT			150		1																	
WHITTIER ST. BETWEEN STA. 14+00 AND 25+00, INT 2072																									
388	IC-1	WHITTIER ST	14+00, 20' RT	15+91, 20' RT		194	191				194														
388	SE A-1	WHITTIER ST	15+91, 20' RT			300		1																	
388	IC-4	WHITTIER ST	15+91, 20' RT	15+91, 20' RT					1																
388	TC-1	WHITTIER ST	15+91, 20' RT		1							2	1	1											
388	IC-2	WHITTIER ST	15+91, 20' RT	25+00, 22' RT		923	909				923														
388	IC-3	WHITTIER ST	23+35, 21' RT			150																			
WHITTIER ST. BETWEEN STA. 25+00 AND 36+00, INT 2074																									
389	IC-1	WHITTIER ST	25+00, 22' RT	27+45, 21' RT		244	240				244														
389	R-1	WHITTIER ST	27+45, 21' RT	28+37, 19' LT			100																		
389	IC-2	WHITTIER ST	27+45, 21' RT	29+00, 19' LT		192					192														
389	TC-1	WHITTIER ST	28+37, 19' LT		1							2	1												
389	IC-4	WHITTIER ST	28+37, 19' LT	29+00, 19' LT						1															
389	SE A-1	WHITTIER ST	29+00, 19' LT			150		1																	
389	IC-3	WHITTIER ST	29+00, 19' LT	36+00, 20' LT		711					711														
WHITTIER ST. BETWEEN STA. 36+00 AND 47+25																									
390	IC-1	WHITTIER ST	36+00, 20' LT	47+25, 21' LT		1142					1142														
390	IC-2	WHITTIER ST	37+36, 22' LT			150																			
390	IC-3	WHITTIER ST	45+90, 22' LT			150																			
WHITTIER ST. BETWEEN STA. 49+75 AND 60+50																									
391	IC-1	WHITTIER ST	49+75, 21' RT	60+50, 19' RT		1091	1075				1091														
391	IC-2	WHITTIER ST	57+65, 20' RT			150																			
WHITTIER ST. BETWEEN STA. 60+50 AND 71+50																									
392	IC-1	WHITTIER ST	60+50, 19' RT	71+50, 19' RT		1117	1100				1117														
392	IC-2	WHITTIER ST	67+06, 19' RT			150																			
WHITTIER ST. BETWEEN STA. 71+50 AND 82+00																									
393	IC-1	WHITTIER ST	71+50, 19' RT	82+00, 18' RT		1066	1050				1066														
393	IC-3	WHITTIER ST	74+83, 20' RT			150																			
393	IC-2	WHITTIER ST	79+92, 20' RT			150																			
WHITTIER ST. BETWEEN STA. 82+00 AND 93+00																									
394	IC-1	WHITTIER ST	82+00, 18' RT	93+00, 19' RT		1117	1100				1117														
394	IC-2	WHITTIER ST	85+17, 18' RT			150																			
394	IC-3	WHITTIER ST	92+27, 19' RT			150																			
WHITTIER ST. BETWEEN STA. 93+00 AND 104+00, INT 2122																									
395	IC-1	WHITTIER ST	93+00, 19' RT	102+82, 35' RT		999	984				999														
395	IC-2	WHITTIER ST	102+52, 98' RT	102+82, 35' RT		69	68				69														
395	SE A-1	WHITTIER ST	102+82, 35' RT			150		1																	
395	IC-3	WHITTIER ST	102+82, 35' RT	102+82, 35' RT					1																
395	TC-1	WHITTIER ST	102+82, 35' RT									2	1		1										
SHEET TOTAL					2	11915	7753	4	2	2	9815	8	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

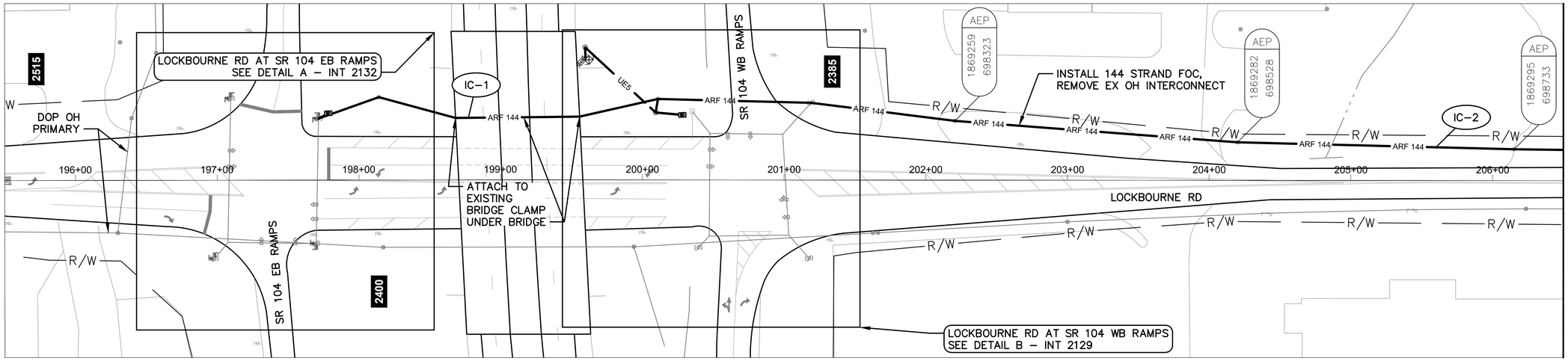
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PID NUMBER: 14522

WHITTIER ST. BTW STA. 4+25 & 104+00
INTS 2056, 2072, 2074, 2122

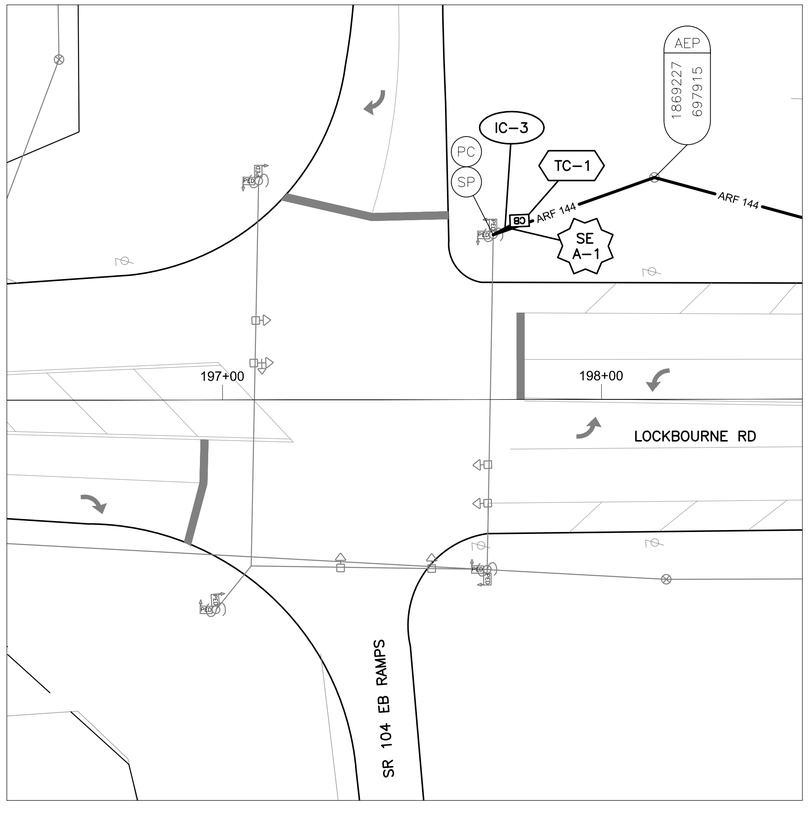
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

396
911

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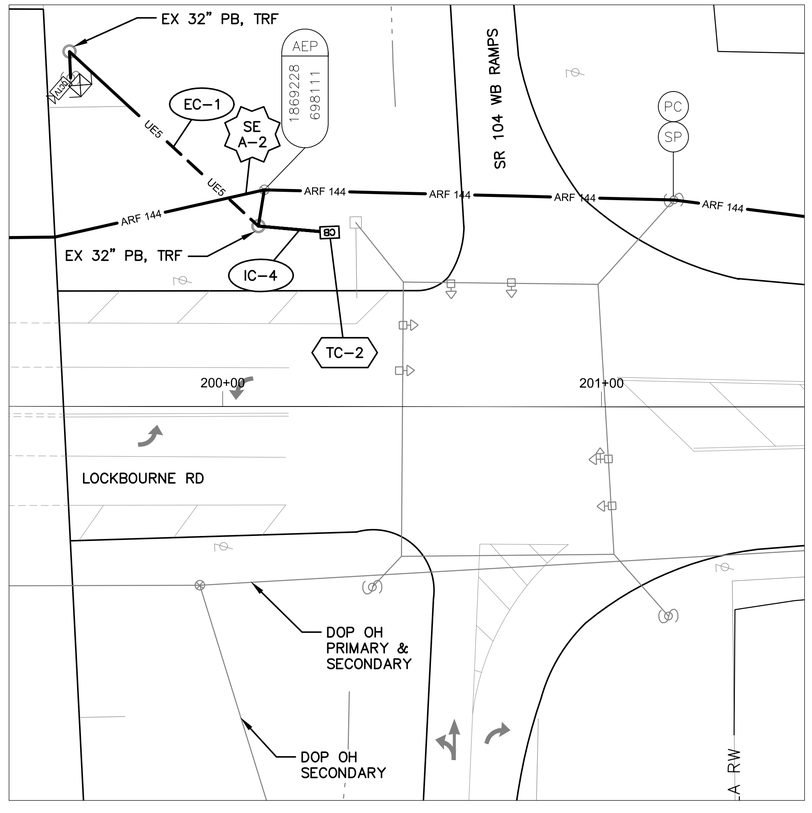


LOCKBOURNE RD BETWEEN STATION 195+50 AND 206+50



DETAIL A - INT 2132

0 20 40
HORIZONTAL
SCALE IN FEET



DETAIL B - INT 2129

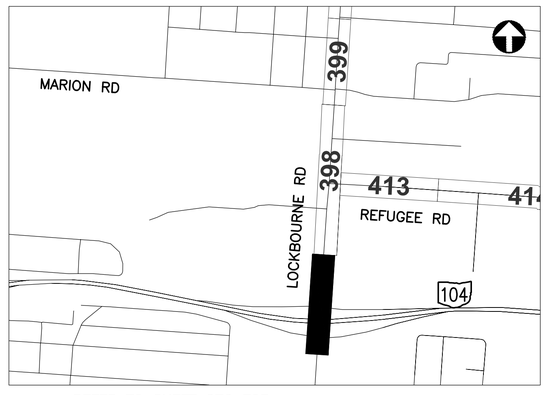
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEETS 609, 812 & 813 FOR COMMUNICATION DETAILS.
3. UNDERPASS LIGHTING PRESENT ON LOCKBOURNE AT 199+00. PROTECT FROM DAMAGE.
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 270 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

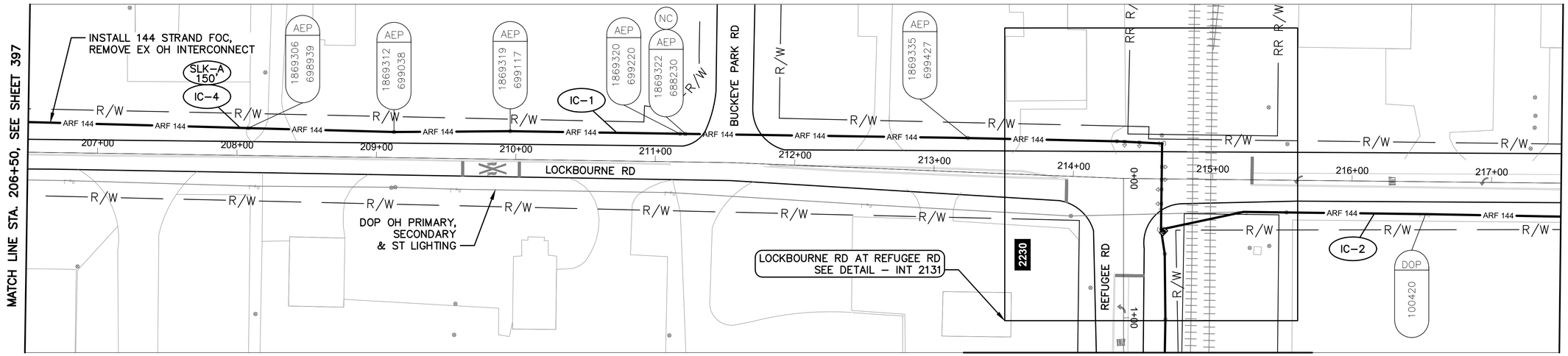
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 195+50 AND 206+50, INT 2132 & 2129

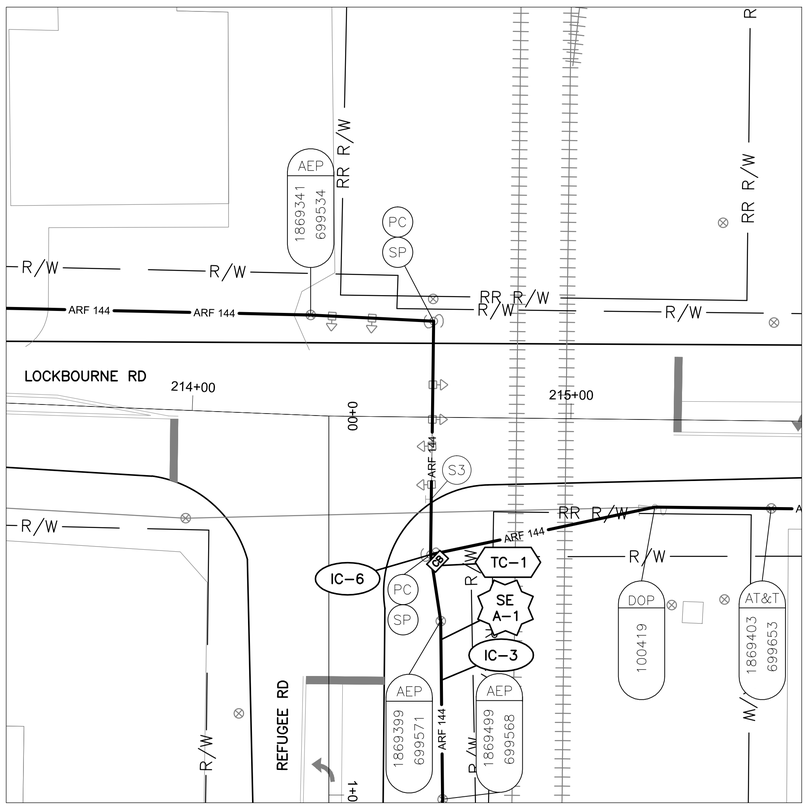
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

397
911

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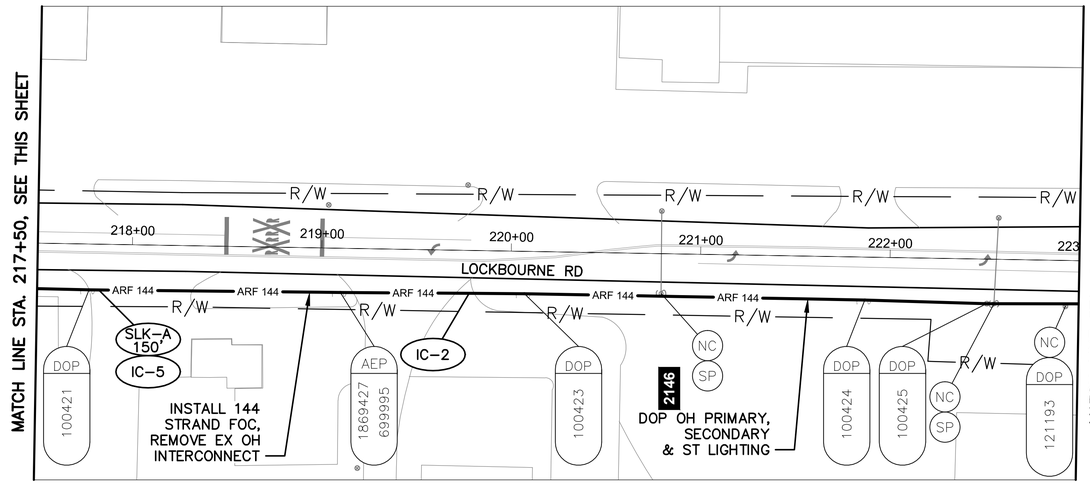


LOCKBOURNE RD BETWEEN STATION 206+50 AND 217+50



DETAIL - INT 2131

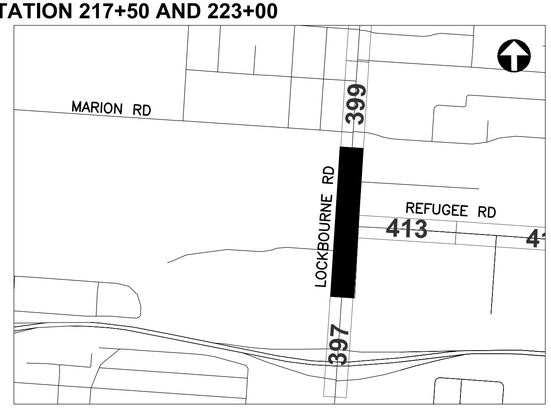
0 20 40
HORIZONTAL SCALE IN FEET



LOCKBOURNE RD BETWEEN STATION 217+50 AND 223+00

NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEETS 609 & 814 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2131, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.



REFER TO SHEET 270 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

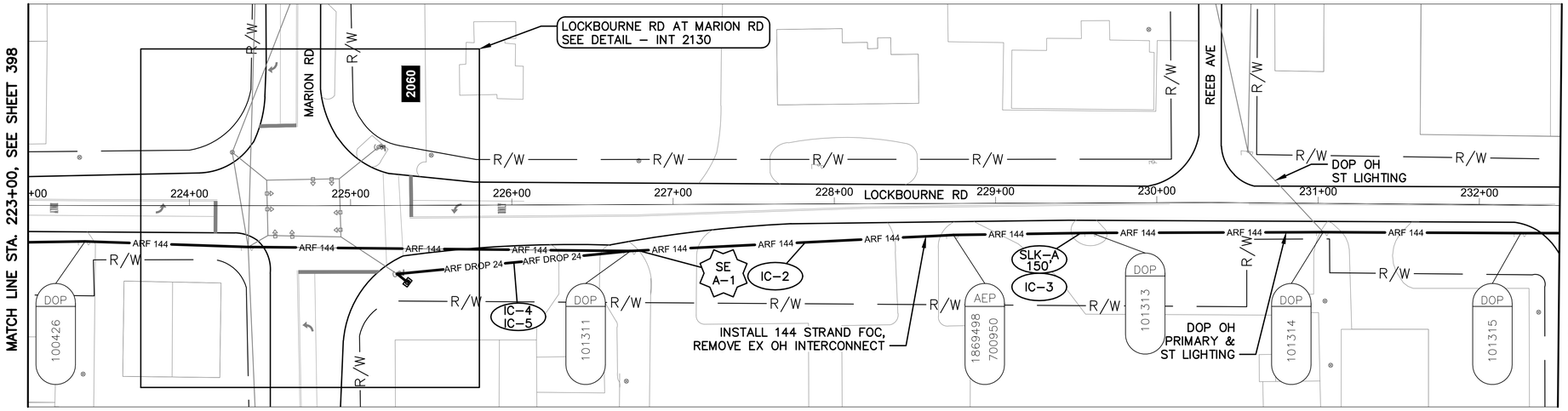
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 206+50 AND 223+00, INT 2131

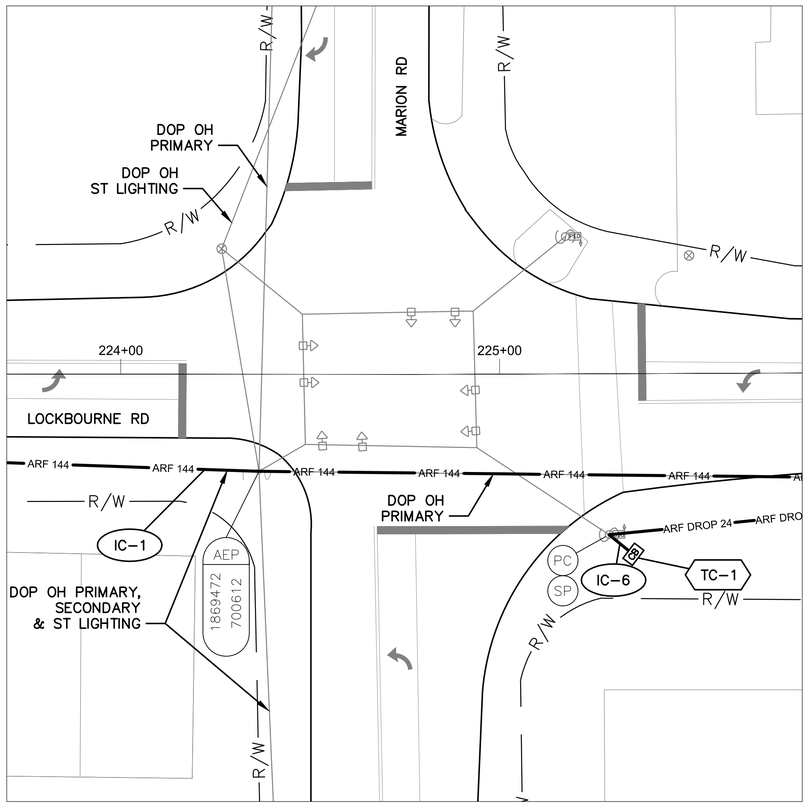
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

398
911

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LOCKBOURNE RD BETWEEN STATION 223+00 AND 232+50



DETAIL - INT 2130

0 20 40
HORIZONTAL
SCALE IN FEET

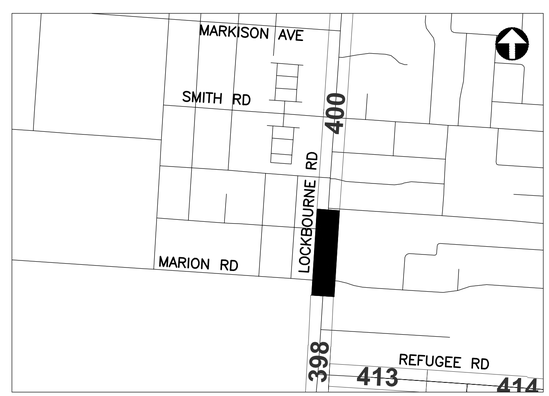
NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEETS 609 & 815 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

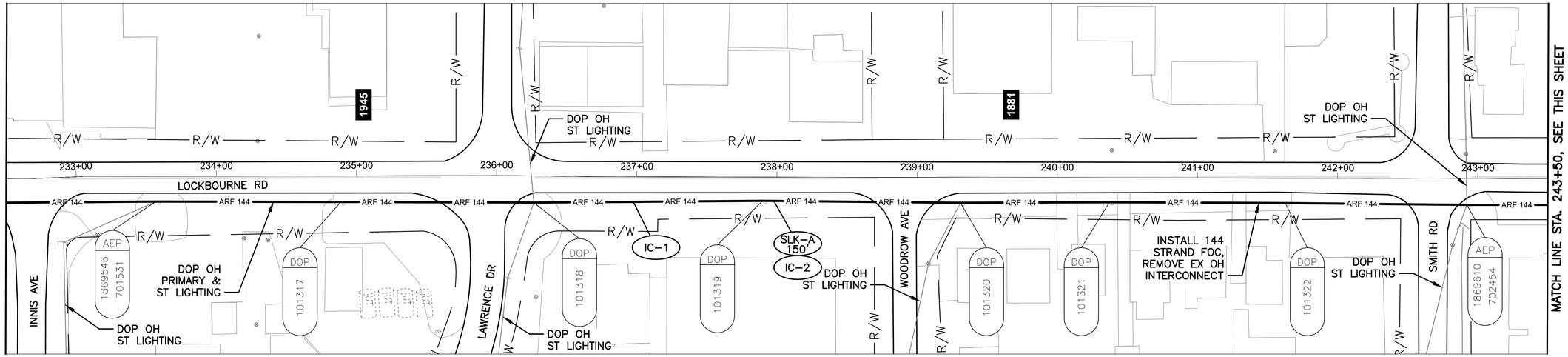
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PID NUMBER: 14522

INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 223+00 AND 232+50, INT 2130

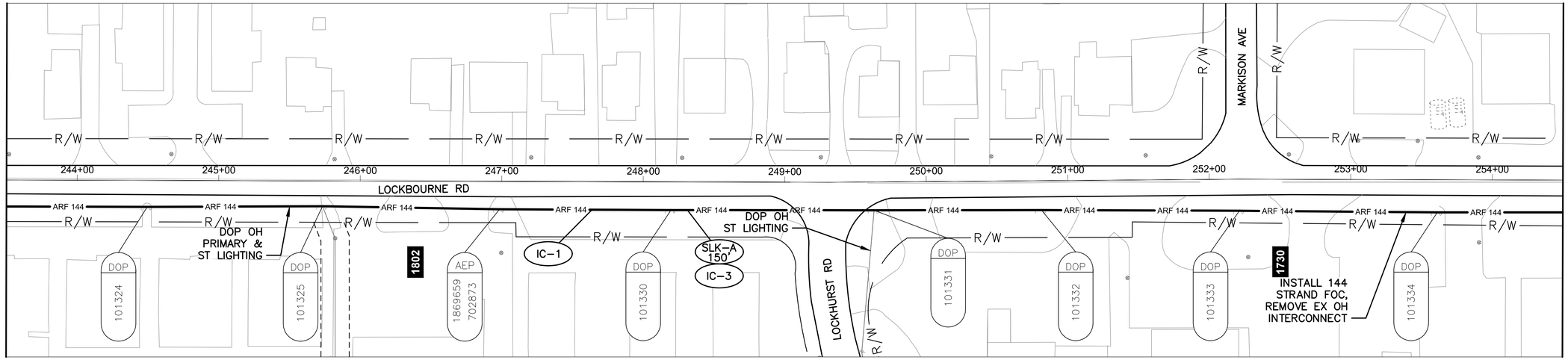
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

399
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_LOCKBOURNE_INTERCONNECT.dwg ~ LOCKBOURNE 3 layout ~ last saved by: sdlowry 05/08/2017 05:30pm ~ printed 05/08/2017 10:23pm



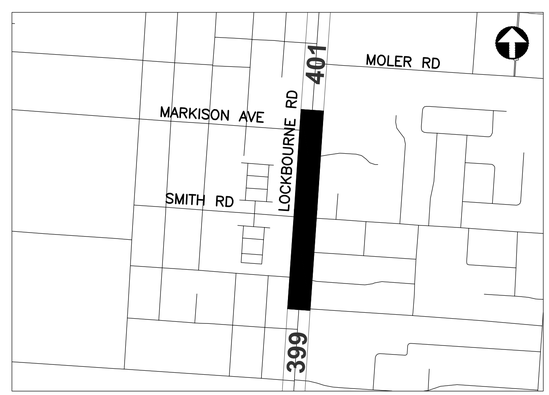
LOCKBOURNE RD BETWEEN STATION 232+50 AND 243+50



LOCKBOURNE RD BETWEEN STATION 243+50 AND 254+50

NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEET 609 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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

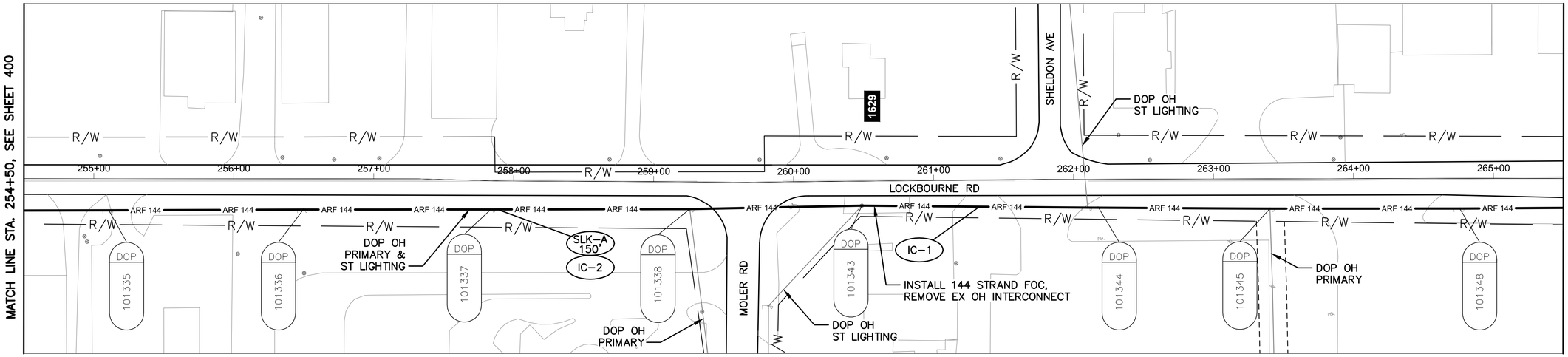
INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 232+50 AND 254+50

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

400
911

2953-E

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LOCKBOURNE RD BETWEEN STATION 254+50 AND 265+50

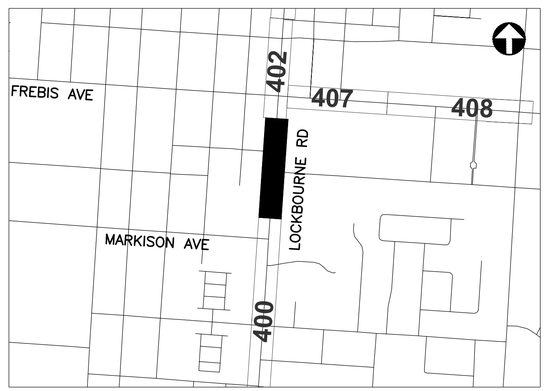
NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEET 609 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

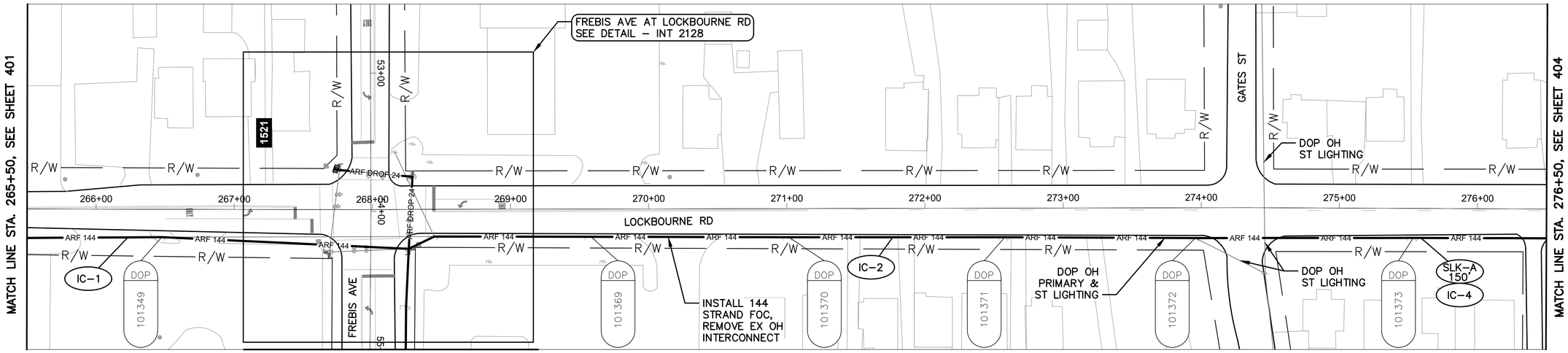
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 254+50 AND 265+50

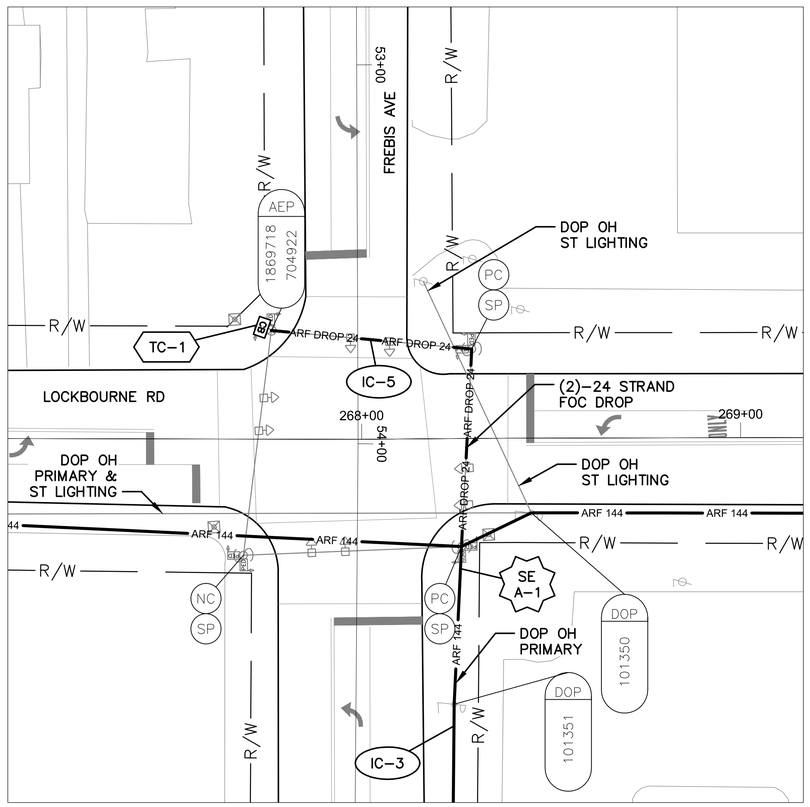
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

401
911

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LOCKBOURNE RD BETWEEN STATION 265+50 AND 276+50



DETAIL - INT 2128

0 20 40
HORIZONTAL SCALE IN FEET

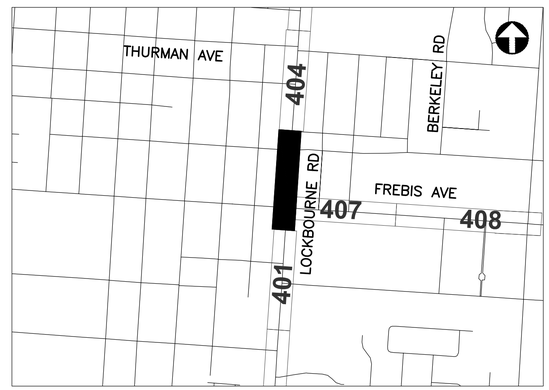
NOTES:

1. SEE SHEET 403 FOR QUANTITIES.
2. SEE SHEETS 609 & 816 FOR COMMUNICATION DETAILS.
3. NEW FOC ON NE CORNER OF INT 2128 TO ATTACH ABOVE EXISTING SIGNAL SPAN.
4. FOR THE SPLICE ENCLOSURE AT INT 2128, PROVIDE 75' OF SLACK FROM ALL THREE DIRECTIONS FOR THE 225' TOTAL.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 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
LOCKBOURNE RD BETWEEN STA. 265+50 AND 276+50, INT 2128

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

402
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	632 SIGNALIZATION, MISC.: AERIAL CLAMP, ATTACHED TO BRIDGE 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 UNIT, TYPE TS2/A2, AS PER PLAN EACH
LOCKBOURNE RD. BETWEEN STA. 195+50 AND 206+50, INTS 2132 & 2129																			
397	SE A-1	LOCKBOURNE RD	197+71, 43' LT			75			1										
397	IC-3	LOCKBOURNE RD	197+71, 43' LT	197+78, 47' LT	5			5			1								
397	IC-1	LOCKBOURNE RD	197+71, 43' LT	200+10, 57' LT		250	246						250	3					
397	TC-1	LOCKBOURNE RD	197+78, 47' LT													2	1	1	
397	CTV-1	LOCKBOURNE RD	199+59, 86' LT												45				
397	EC-1	LOCKBOURNE RD	199+60, 86' LT	200+28, 46' LT	86										86				
397	SE A-2	LOCKBOURNE RD	200+10, 57' LT			150			1										
397	IC-4	LOCKBOURNE RD	200+10, 57' LT	200+28, 46' LT	29			29				1							
397	IC-2	LOCKBOURNE RD	200+10, 57' LT	206+50, 22' LT		650	640						650						
397	TC-2	LOCKBOURNE RD	200+28, 46' LT												10	2	1	1	
LOCKBOURNE RD. BETWEEN STA. 206+50 AND 223+00, INT 2131																			
398	IC-1	LOCKBOURNE RD	206+50, 22' LT	214+63, 36' RT		888	875						888						
398	IC-4	LOCKBOURNE RD	208+02, 20' LT			150													
398	SE A-1	LOCKBOURNE RD	214+63, 36' RT			225				1									
398	IC-6	LOCKBOURNE RD	214+63, 36' RT	214+63, 36' RT								2							
398	TC-1	LOCKBOURNE RD	214+63, 36' RT													3	1	1	
398	IC-3	LOCKBOURNE RD	214+63, 36' RT	214+67, 125' RT		90	89						90						
398	IC-2	LOCKBOURNE RD	214+63, 36' RT	223+00, 23' RT		851	838						851						
398	IC-5	LOCKBOURNE RD	217+82, 24' RT			150													
LOCKBOURNE RD. BETWEEN STA. 223+00 AND 232+50, INT 2130																			
399	IC-1	LOCKBOURNE RD	223+00, 23' RT	226+73, 29' RT		380	374						380						
399	IC-6	LOCKBOURNE RD	225+28, 42' RT	225+35, 48' RT	8			8											
399	IC-4	LOCKBOURNE RD	225+28, 42' RT	226+73, 29' RT			145						147						
399	IC-5	LOCKBOURNE RD	225+35, 48' RT	226+73, 29' RT								1							
399	TC-1	LOCKBOURNE RD	225+35, 48' RT													2	1	1	
399	SE A-1	LOCKBOURNE RD	226+73, 29' RT			150			1										
399	IC-2	LOCKBOURNE RD	226+73, 29' RT	232+50, 17' RT		585	576						585						
399	IC-3	LOCKBOURNE RD	229+52, 19' RT			150													
LOCKBOURNE RD. BETWEEN STA. 232+50 AND 254+50																			
400	IC-1	LOCKBOURNE RD	232+50, 17' RT	254+50, 23' RT		2233	2200						2233						
400	IC-2	LOCKBOURNE RD	237+97, 17' RT			150													
400	IC-3	LOCKBOURNE RD	248+31, 20' RT			150													
LOCKBOURNE RD. BETWEEN STA. 254+50 AND 265+50																			
401	IC-1	LOCKBOURNE RD	254+50, 23' RT	265+50, 21' RT		1117	1100						1117						
401	IC-2	LOCKBOURNE RD	257+88, 20' RT			150													
LOCKBOURNE RD. BETWEEN STA. 265+50 AND 276+50, INT 2128																			
402	IC-1	LOCKBOURNE RD	265+50, 21' RT	268+27, 28' RT		282	278						282						
402	TC-1	LOCKBOURNE RD	267+76, 29' LT													3	1	1	
402	IC-5	LOCKBOURNE RD	267+76, 29' LT	268+27, 28' RT			105					2	107						
402	IC-3	LOCKBOURNE RD	268+23, 101' RT	268+27, 28' RT		74	73						74						
402	SE A-1	LOCKBOURNE RD	268+27, 28' RT			225				1									
402	IC-2	LOCKBOURNE RD	268+27, 28' RT	276+50, 21' RT		836	824						836						
402	IC-4	LOCKBOURNE RD	275+59, 21' RT			150													
SHEET TOTAL					128	10111	8363	42	3	2	1	6	8490	3	141	12	5	5	-	-	-	-	-	-

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

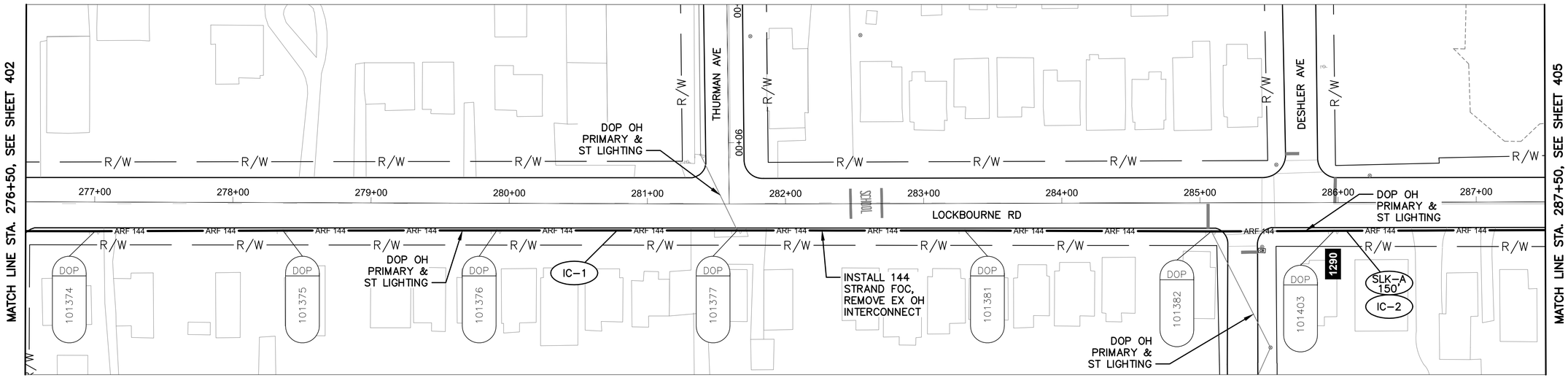
LOCKBOURNE RD. BTW STA. 195+50 & 276+50
INTS 2132, 2129, 2131, 2130, 2128

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

2953-E

403
911

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LOCKBOURNE RD BETWEEN STATION 276+50 AND 287+50

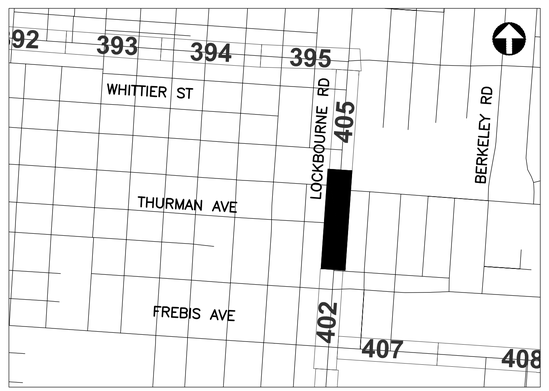
NOTES:

1. SEE SHEET 406 FOR QUANTITIES.
2. SEE SHEET 609 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

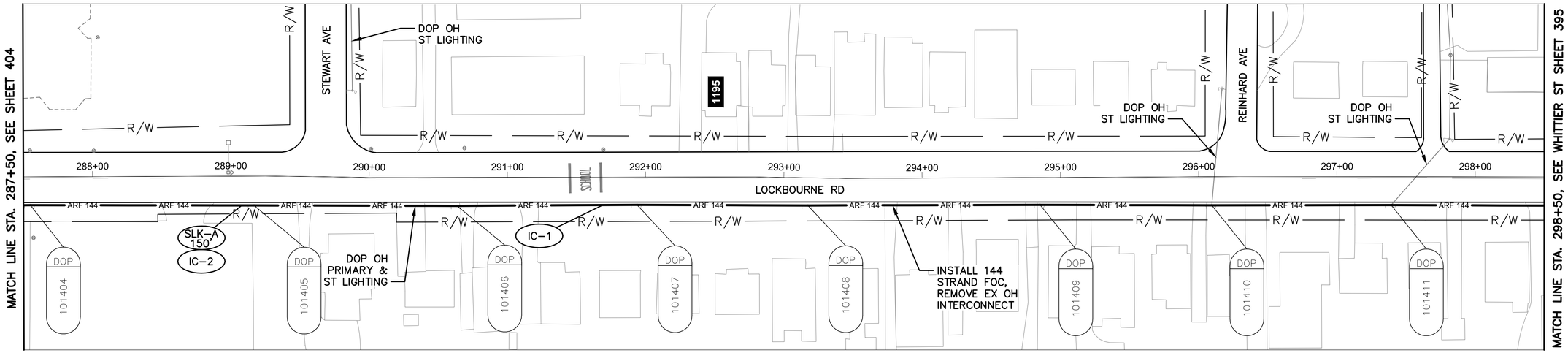
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PID NUMBER: 14522

INTERCONNECT PLAN
LOCKBOURNE RD BETWEEN STA. 276+50 AND 287+50

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

404
911

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LOCKBOURNE RD BETWEEN STATION 287+50 AND 298+50

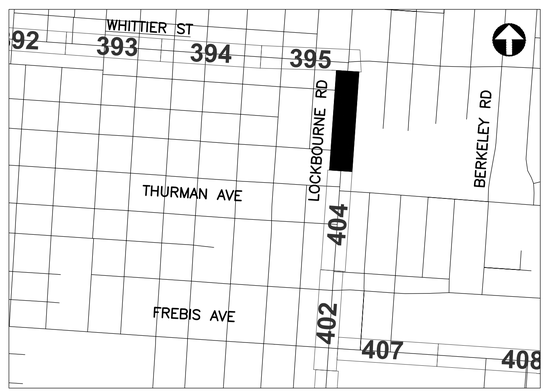
NOTES:

1. SEE SHEET 406 FOR QUANTITIES.
2. SEE SHEET 609 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 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
LOCKBOURNE RD BETWEEN STA. 287+50 AND 298+50

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

405
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	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															
			FROM	TO	FT	FT	FT															
LOCKBOURNE RD. BETWEEN STA. 276+50 AND 287+50																						
404	IC-1	LOCKBOURNE RD	276+50, 21' RT	287+50, 20' RT	1117	1100	1117															
404	IC-2	LOCKBOURNE RD	286+06, 20' RT		150																	
LOCKBOURNE RD. BETWEEN STA. 287+50 AND 298+50																						
405	IC-1	LOCKBOURNE RD	287+50, 20' RT	298+50, 21' RT	1117	1100	1117															
405	IC-2	LOCKBOURNE RD	289+21, 21' RT		150																	
SHEET TOTAL					2534	2200	2234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

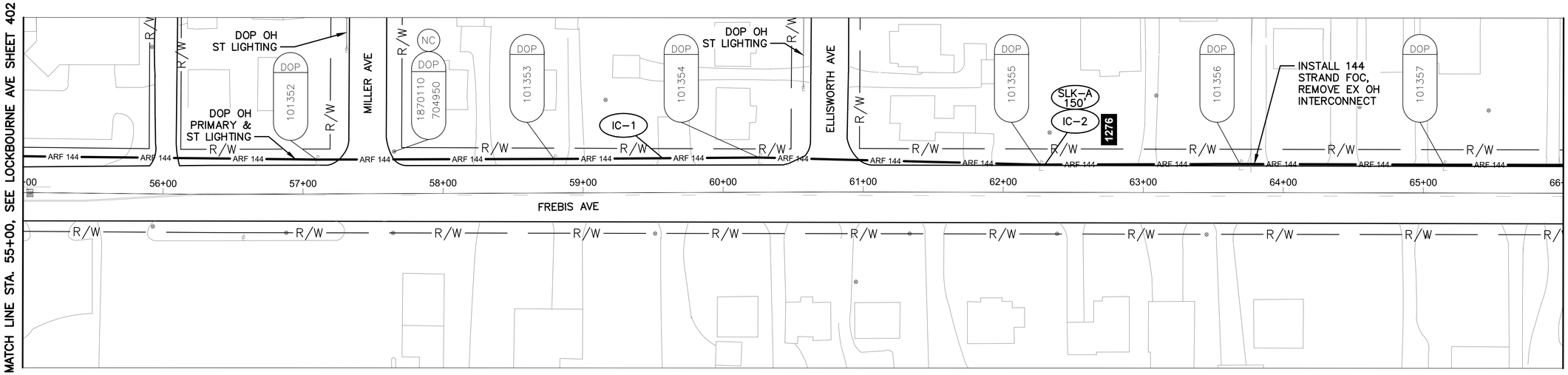
CIP: 540007–100005
PID NUMBER: 14522

LOCKBOURNE RD. BTW STA. 276+50 & 298+50

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

406
911

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FREBIS AVE BETWEEN STATION 55+00 AND 66+00

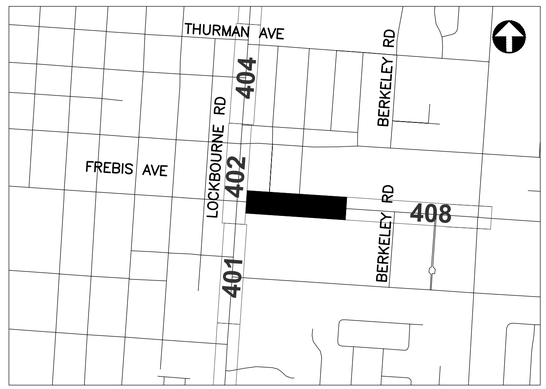
NOTES:

1. SEE SHEET 409 FOR QUANTITIES.
2. SEE SHEET 609 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

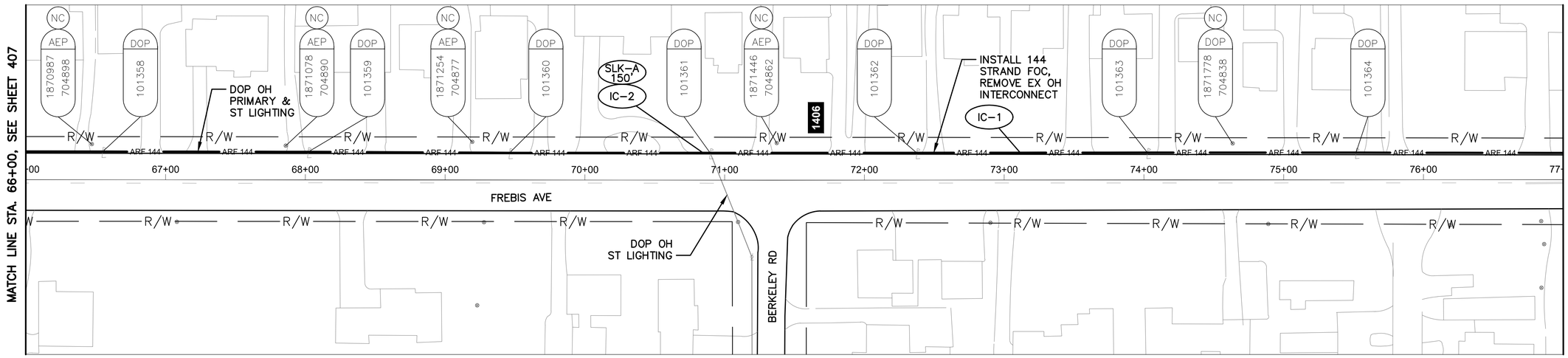
INTERCONNECT PLAN
FREBIS AVE BETWEEN STA. 55+00 AND 66+00

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

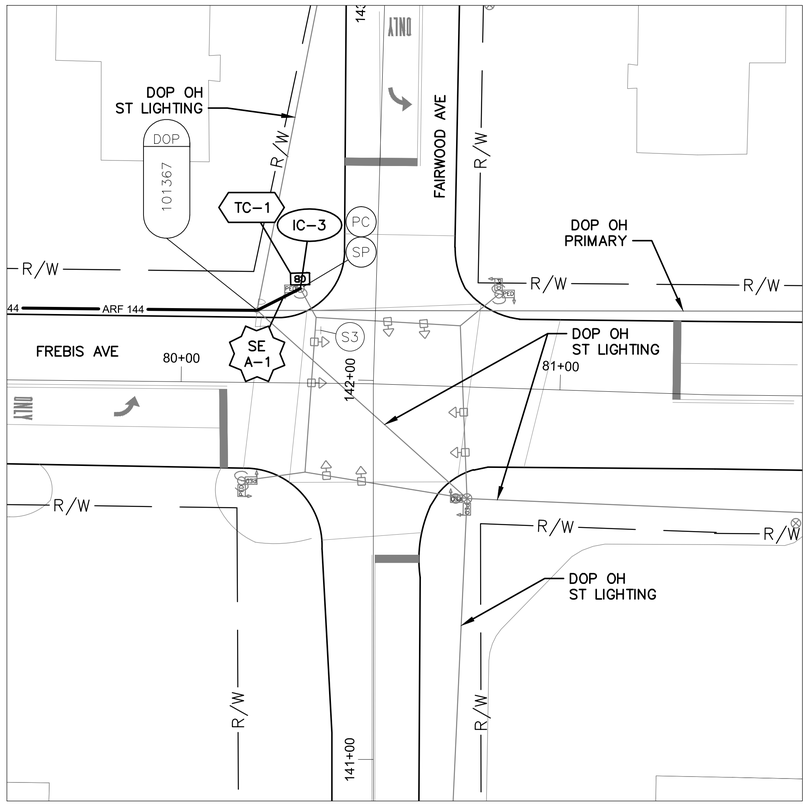
407
911

2953-E

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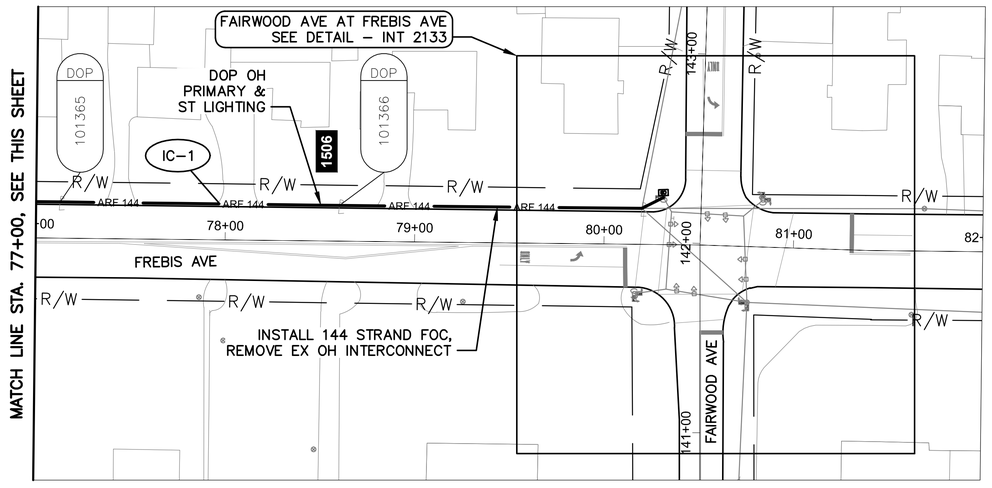


FREBIS AVE BETWEEN STATION 66+00 AND 77+00



DETAIL - INT 2133

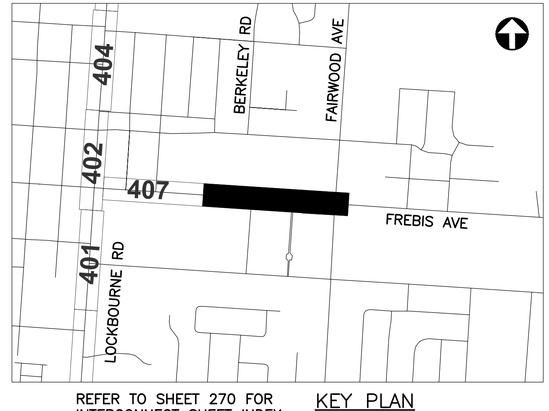
0 20 40
HORIZONTAL SCALE IN FEET



FREBIS AVE BETWEEN STATION 77+00 AND 82+00

NOTES:

1. SEE SHEET 409 FOR QUANTITIES.
2. SEE SHEETS 609 & 811 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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
FREBIS AVE BETWEEN STA. 66+00 AND 82+00, INT 2133

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

2953-E

408
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	632	633	633	633											
					CONDUIT RISER, 3", 725.04, 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.: TERMINATION PANEL, 24 FIBER, W/ 200FT 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	EACH	FT	FT	EACH	EACH	FT	EACH	EACH	EACH										
FREBIS AVE. BETWEEN STA. 55+00 AND 66+00																								
407	IC-1	FREBIS AVE	55+00, 26' LT	66+00, 20' LT		1117	1100			1117														
407	IC-2	FREBIS AVE	62+30, 20' LT			150																		
FREBIS AVE. BETWEEN STA. 66+00 AND 82+00, INT 2133																								
408	IC-1	FREBIS AVE	66+00, 20' LT	80+31, 25' LT		1454	1433			1454														
408	IC-2	FREBIS AVE	70+78, 20' LT			150																		
408	SE A-1	FREBIS AVE	80+31, 25' LT			75		1																
408	IC-3	FREBIS AVE	80+31, 25' LT	80+31, 25' LT					1															
408	TC-1	FREBIS AVE	80+31, 25' LT		1						1	1	1											
SHEET TOTAL					1	2946	2533	1	1	2571	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

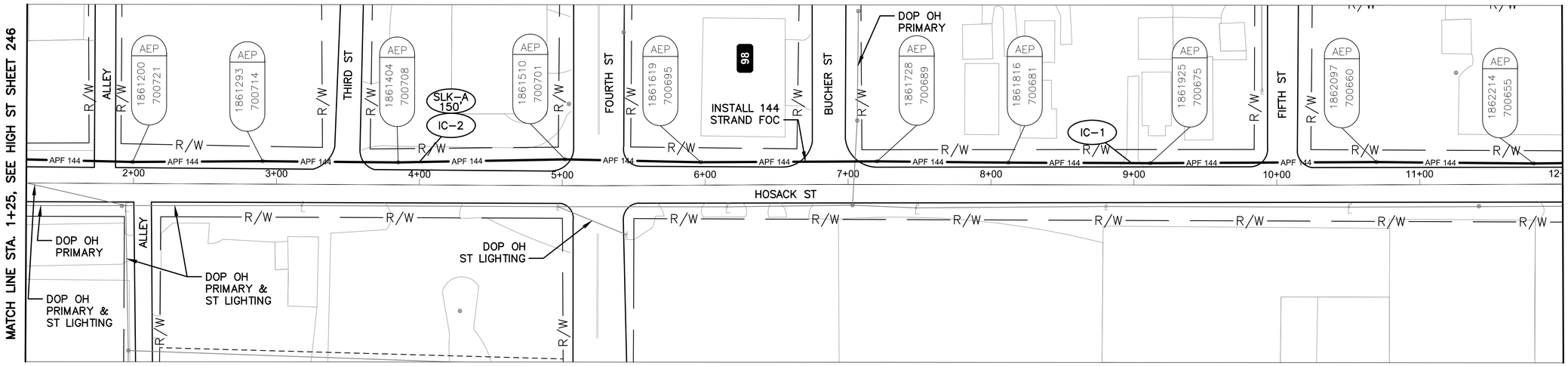
CIP: 540007–100005
PID NUMBER: 14522

FREBIS AVE. BTW STA. 55+00 & 82+00
INT 2133

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

409
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_FREBIS_INTERCONNECT_QUANTITIES.dwg – FREBIS layout ~ last saved by: gburch 12/15/2014 09:40am ~ printed 05/08/2017 10:27pm



HOSACK ST BETWEEN STATION 1+25 AND 12+00

NOTES:

1. SEE SHEET 412 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

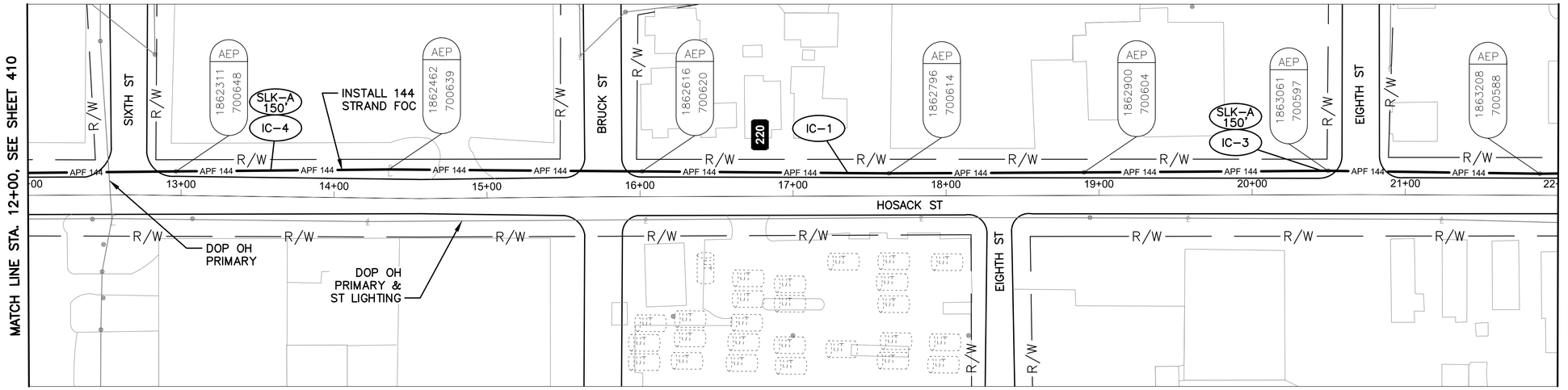
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PID NUMBER: 14522

INTERCONNECT PLAN
HOSACK ST BETWEEN STA. 1+25 AND 12+00

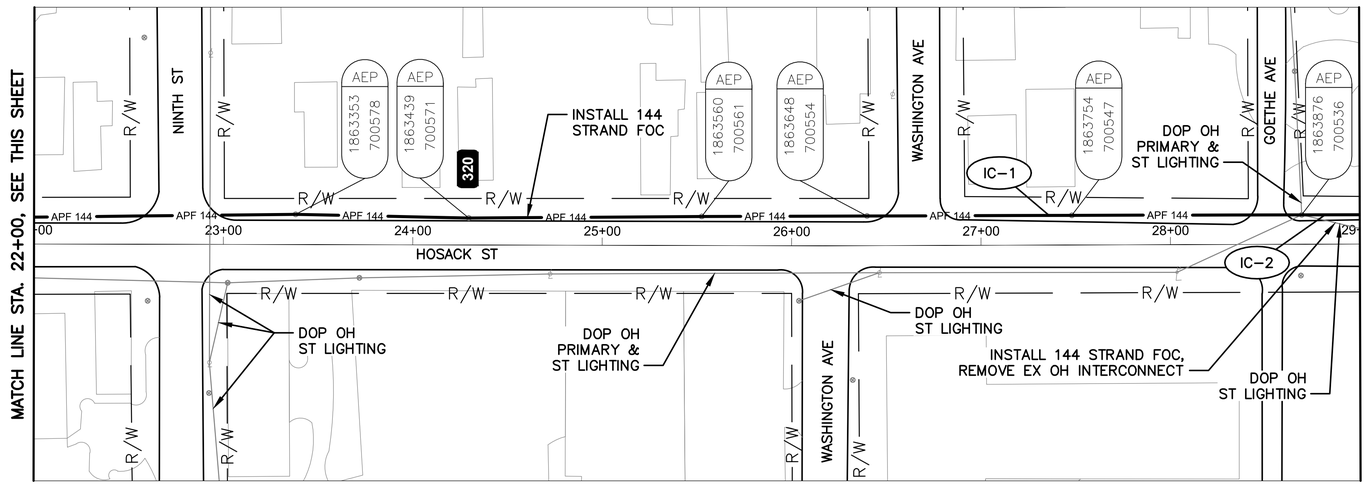
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

410
911

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HOSACK ST BETWEEN STATION 12+00 AND 22+00



HOSACK ST BETWEEN STATION 22+00 AND 29+00

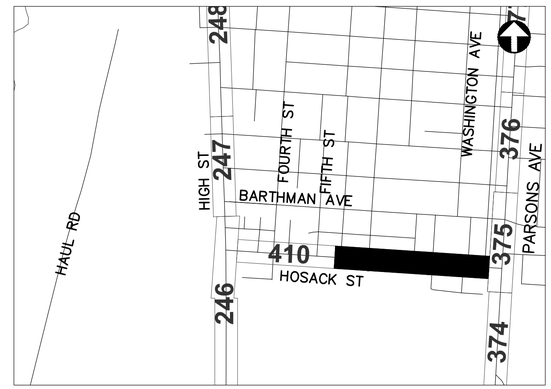
NOTES:

1. SEE SHEET 412 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 270 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
HOSACK ST BETWEEN STA. 12+00 AND 29+00

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

411
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.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES
			FROM	TO	FT	FT	FT
HOSACK ST. BETWEEN STA. 1+25 AND 12+00							
410	IC-1	HOSACK ST	1+25, 16' LT	12+00, 15' LT	1091		1091
410	IC-2	HOSACK ST	2+85, 16' LT		150		
410	IC-3	HOSACK ST	11+72, 15' LT		150		
HOSACK ST. BETWEEN STA. 12+00 AND 29+00							
411	IC-1	HOSACK ST	12+00, 15' LT	28+69, 16' LT	1695		1695
411	IC-3	HOSACK ST	20+45, 16' LT		150		
411	IC-2	HOSACK ST	28+69, 16' LT	29+00, 15' LT	31	31	31
SHEET TOTAL					3267	31	2817

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

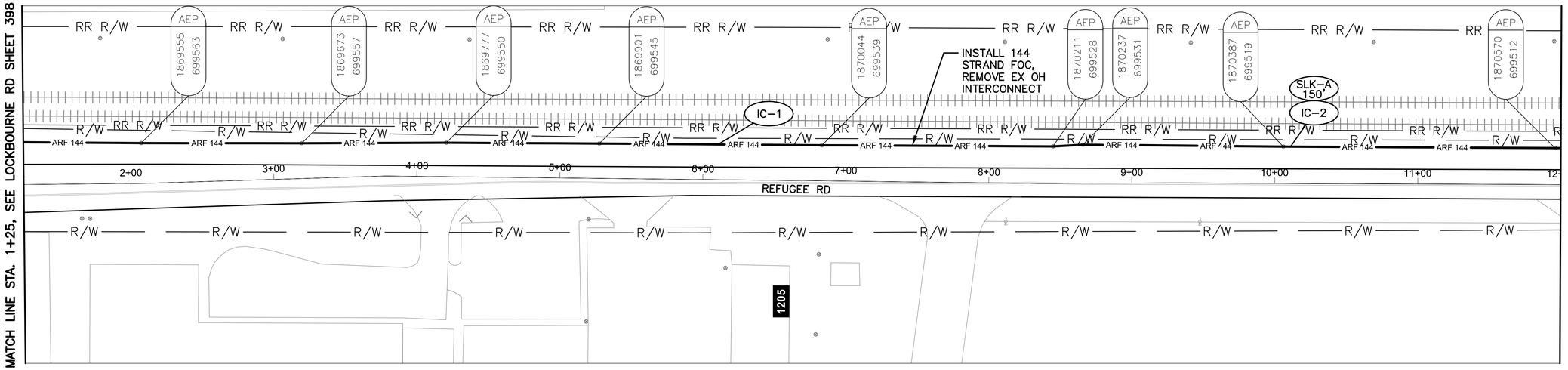
CIP: 540007–100005
PID NUMBER: 14522

HOSACK ST. BTW STA. 1+25 & 29+00

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

412
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHAMPION_INTERCONNECT_QUANTITIES.dwg – CHAMPION layout ~ last saved by: gburch 10/29/2014 10:52am ~ printed 05/08/2017 10:28pm



REFUGEE RD BETWEEN STATION 1+25 AND 12+00

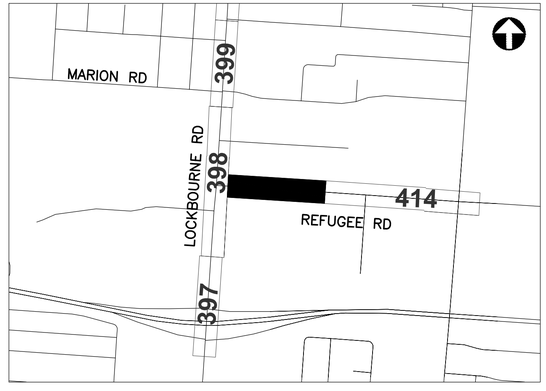
NOTES:

1. SEE SHEET 415 FOR QUANTITIES.
2. SEE SHEET 609 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

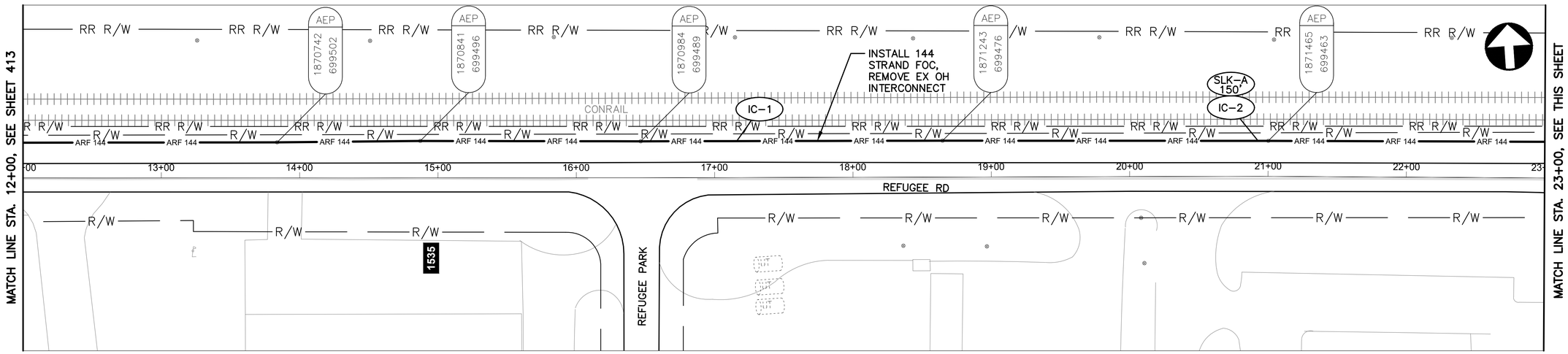
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 1+25 AND 12+00

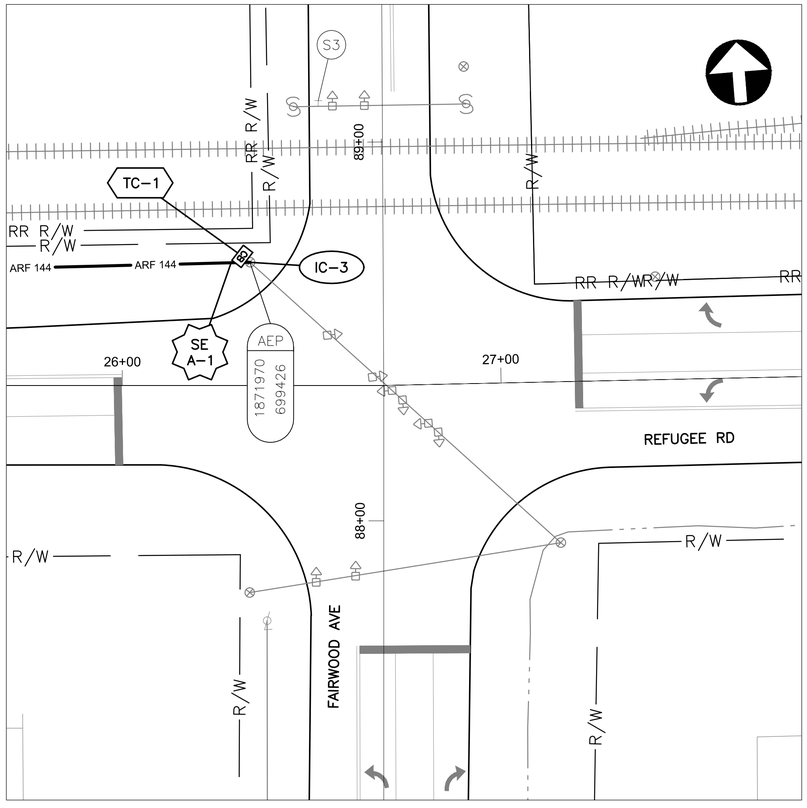
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

413
911

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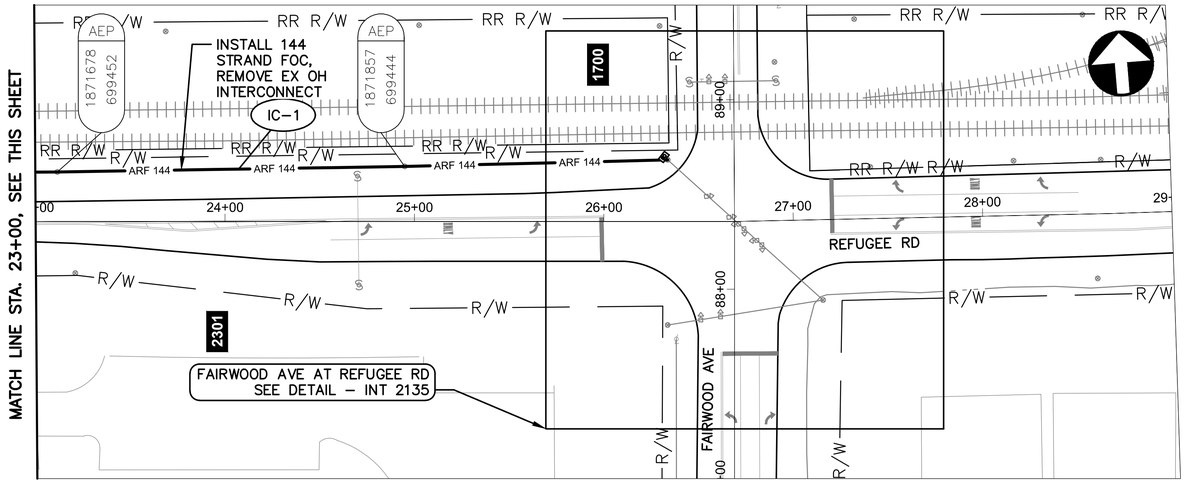


REFUGEE RD BETWEEN STATION 12+00 AND 23+00



DETAIL - INT 2135

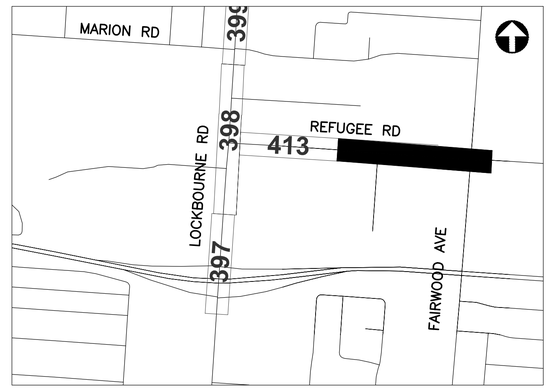
0 20 40
HORIZONTAL SCALE IN FEET



REFUGEE RD BETWEEN STATION 23+00 AND 29+00

NOTES:

1. SEE SHEET 415 FOR QUANTITIES.
2. SEE SHEETS 609 & 810 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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
REFUGEE RD BETWEEN STA. 12+00 AND 29+00, INT 2135

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

414
911

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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/ 200FT 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 UNIT, TYPE TS2/A2, AS PER PLAN EACH
REFUGEE RD. BETWEEN STA. 1+25 AND 12+00												
413	IC-1	REFUGEE RD	1+25, 30' LT	12+00, 25' LT	1091	1075			1091			
413	IC-2	REFUGEE RD	10+11, 26' LT		150							
REFUGEE RD. BETWEEN STA. 12+00 AND 29+00, INT 2135												
414	IC-1	REFUGEE RD	12+00, 25' LT	26+33, 32' LT	1456	1434			1456			
414	IC-2	REFUGEE RD	20+92, 26' LT		150							
414	SE A-1	REFUGEE RD	26+33, 32' LT		150		1					
414	IC-3	REFUGEE RD	26+33, 32' LT	26+33, 32' LT				1				
414	TC-1	REFUGEE RD	26+33, 32' LT							1	1	1
SHEET TOTAL					2997	2509	1	1	2547	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

CIP: 540007–100005
PID NUMBER: 14522

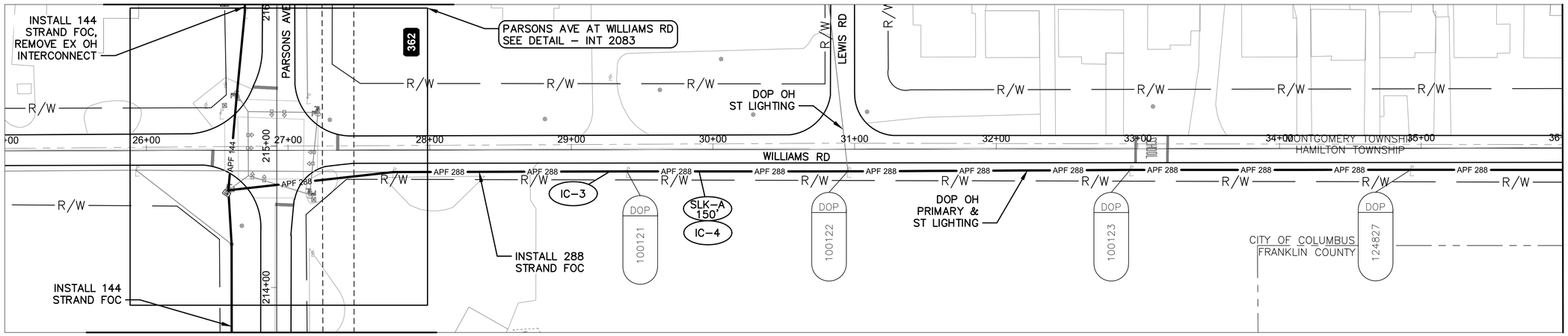
REFUGEE RD. BTW STA. 1+25 & 29+00
INT 2135

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

415
911

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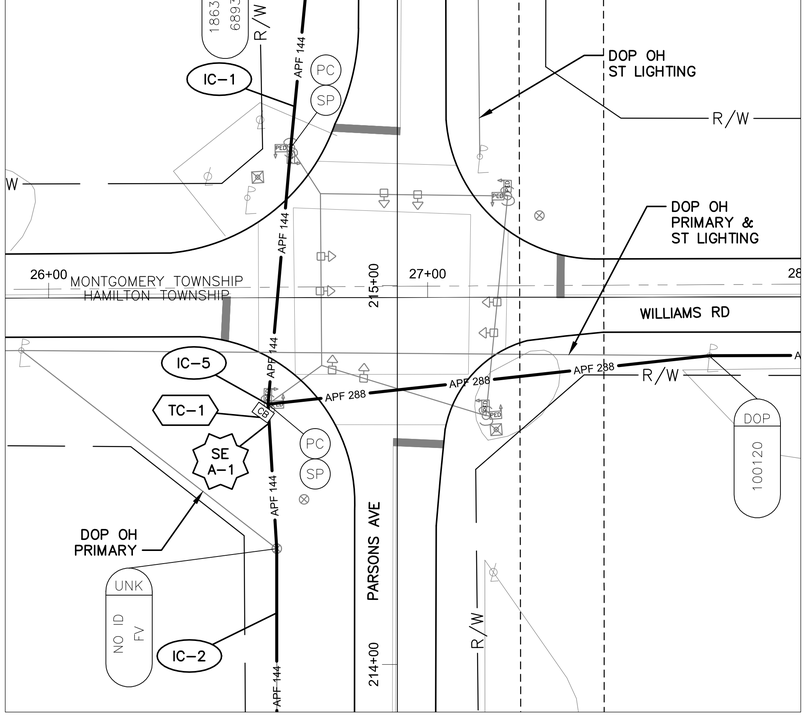
MATCH LINE STA. 216+00, SEE PARSONS AVE SHEET 368



MATCH LINE STA. 36+00, SEE SHEET 417

MATCH LINE STA. 213+68, SEE PARSONS AVE SHEET 367

WILLIAMS RD BETWEEN STATION 25+00 AND 36+00



DETAIL - INT 2083

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEETS 611 & 785 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2083, 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

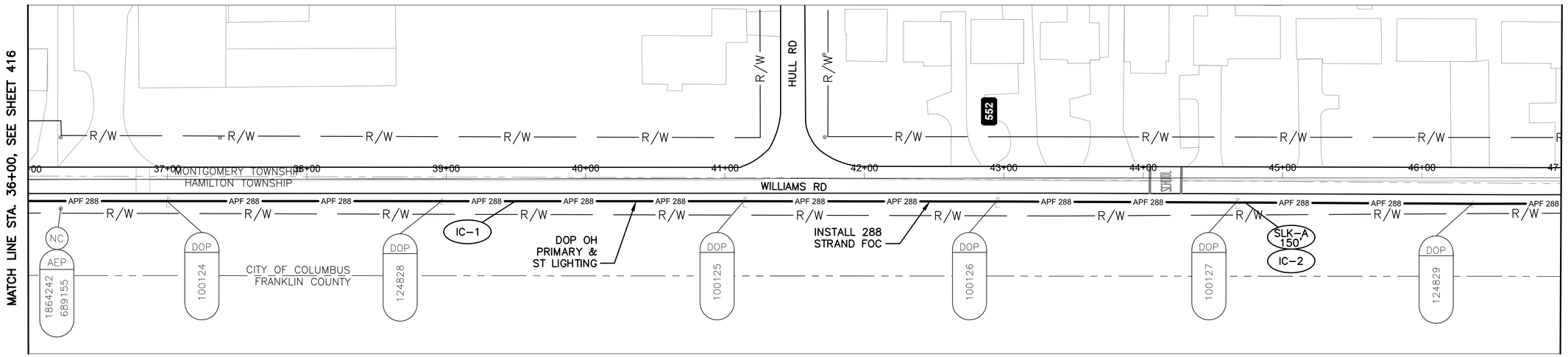
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
WILLIAMS RD BETWEEN STA. 25+00 AND 36+00, INT 2083

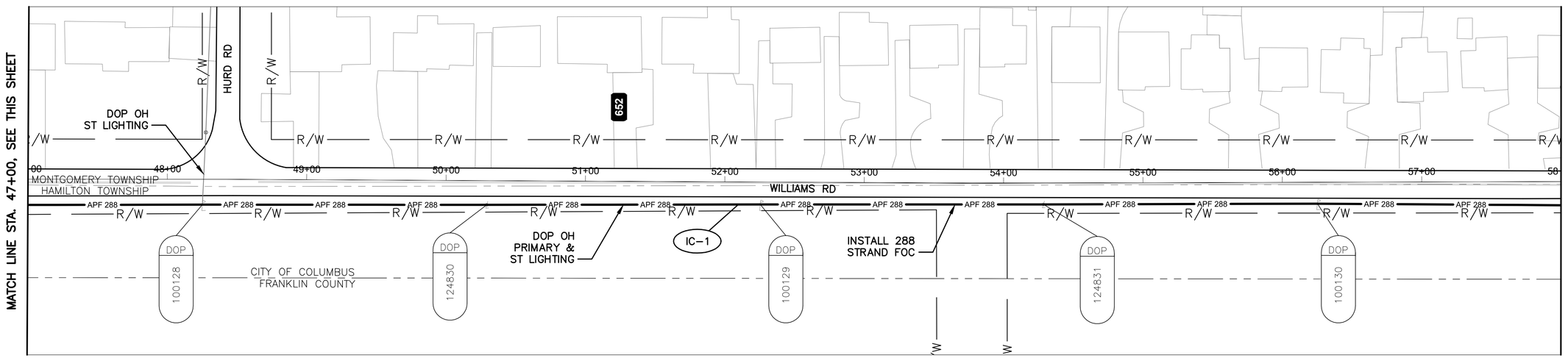
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

416
911

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WILLIAMS RD BETWEEN STATION 36+00 AND 47+00



WILLIAMS RD BETWEEN STATION 47+00 AND 58+00

NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.
3. USE TREE GUARD WHEN TREES ARE PRESENT.

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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

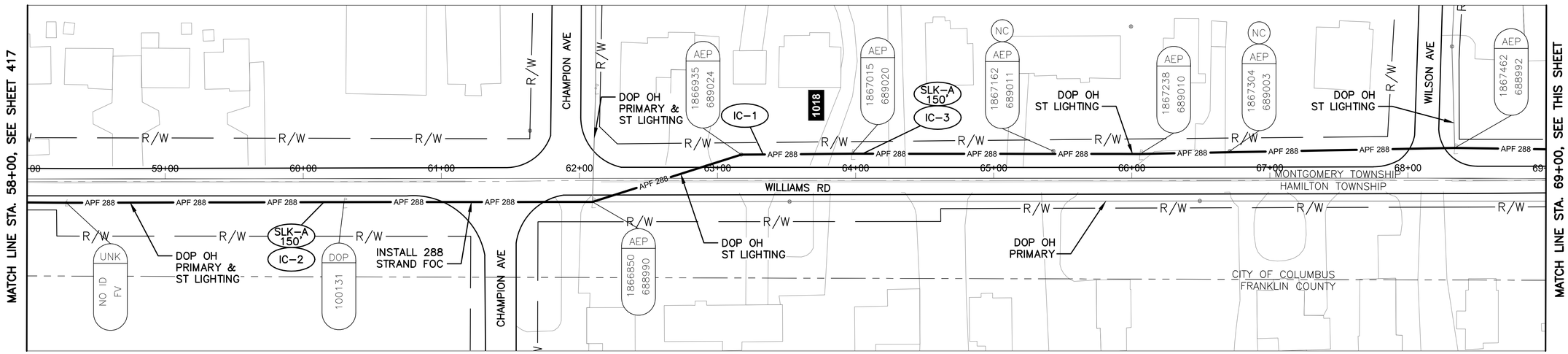
INTERCONNECT PLAN
WILLIAMS RD BETWEEN STA. 36+00 AND 58+00

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

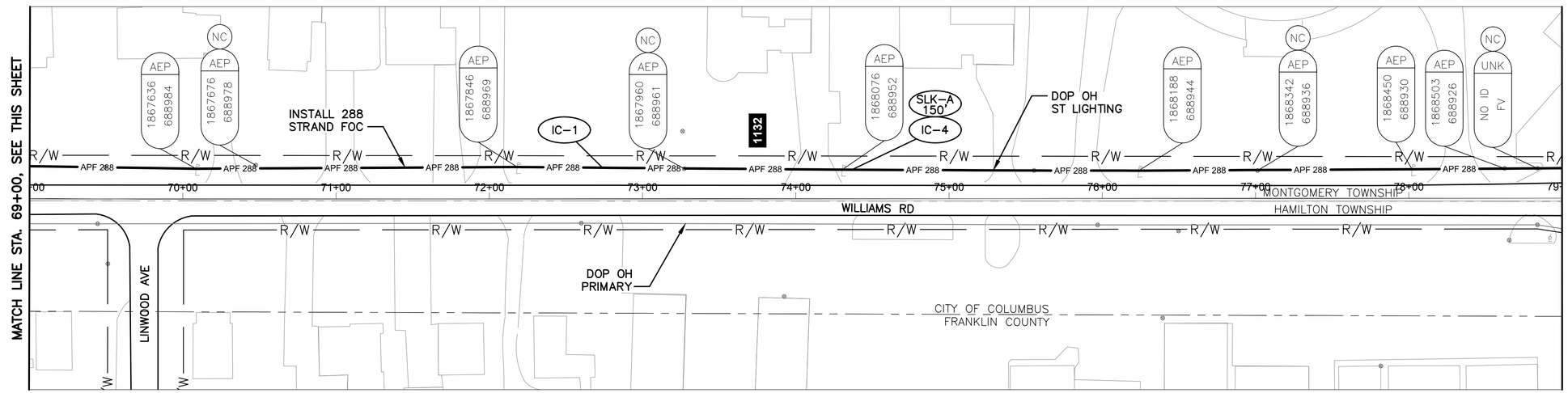
417
911

2953-E

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WILLIAMS RD BETWEEN STATION 58+00 AND 69+00



WILLIAMS RD BETWEEN STATION 69+00 AND 79+00

NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEET 611 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

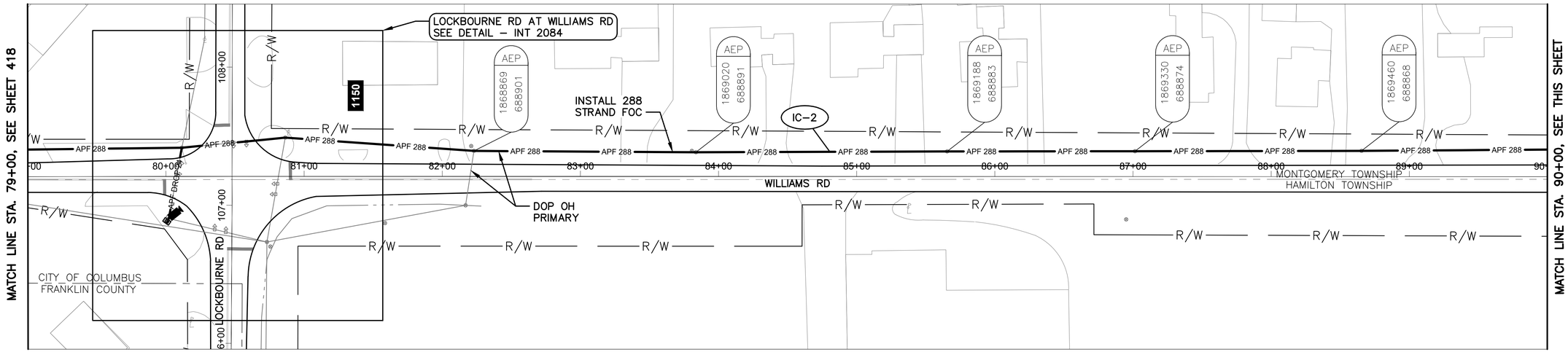
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WILLIAMS RD BETWEEN STA. 58+00 AND 79+00

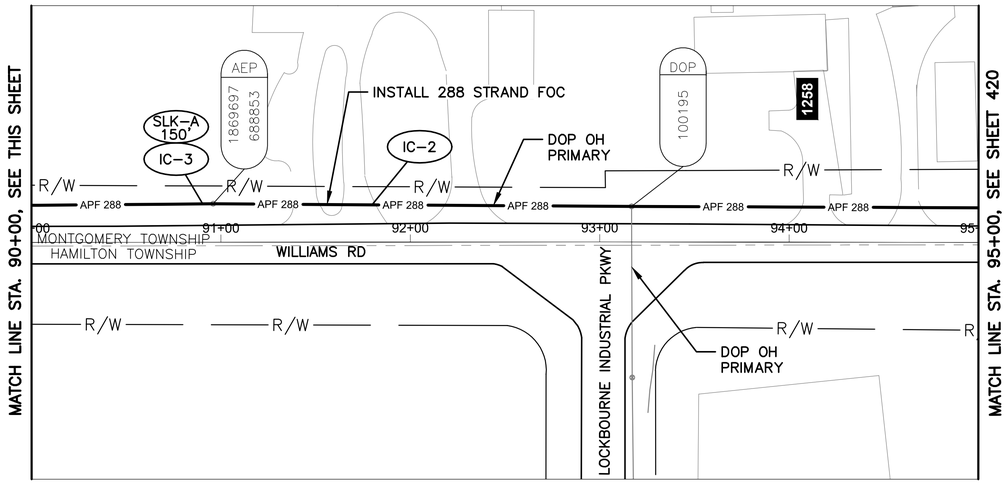
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

418
911

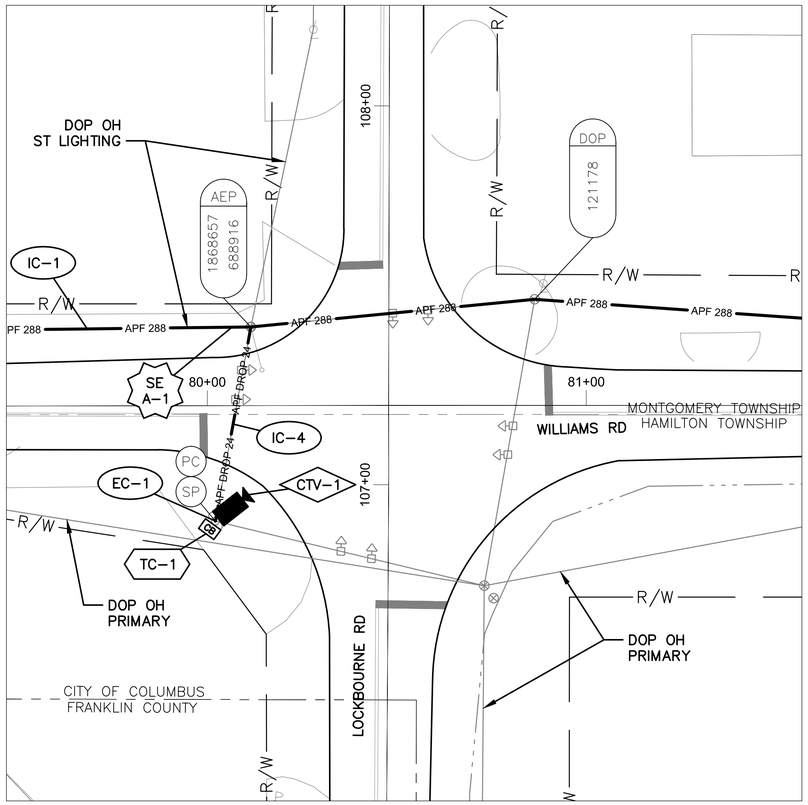
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WILLIAMS RD BETWEEN STATION 79+00 AND 90+00

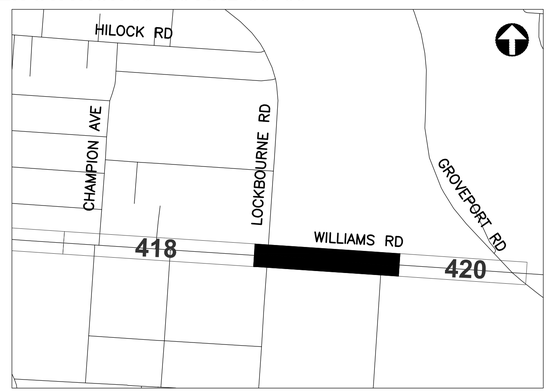


WILLIAMS RD BETWEEN STATION 90+00 AND 95+00



DETAIL - INT 2084

0 20 40
HORIZONTAL
SCALE IN FEET



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEETS 611 & 786 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

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

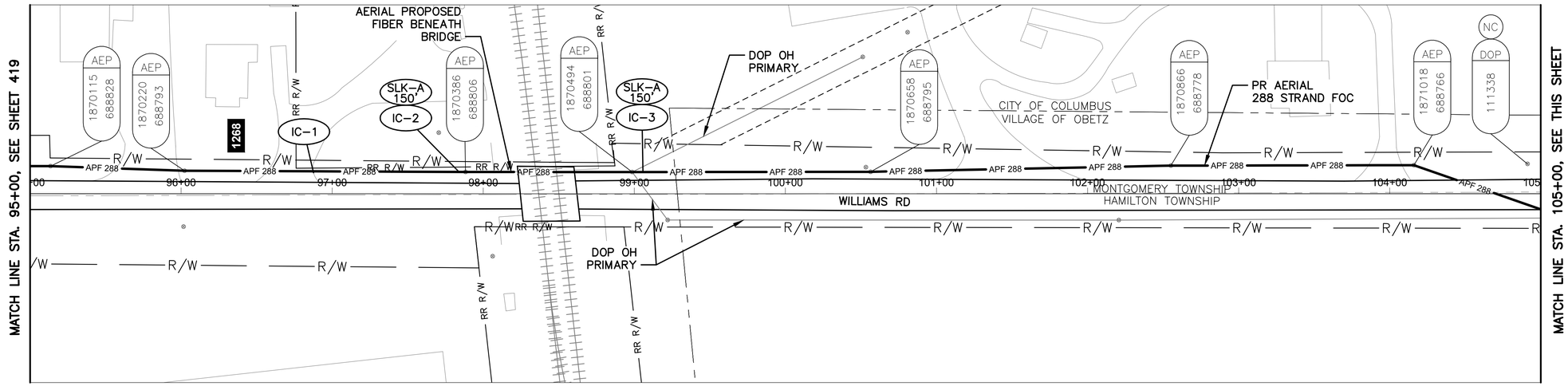
INTERCONNECT PLAN
WILLIAMS RD BETWEEN STA. 79+00 AND 95+00, INT 2084

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

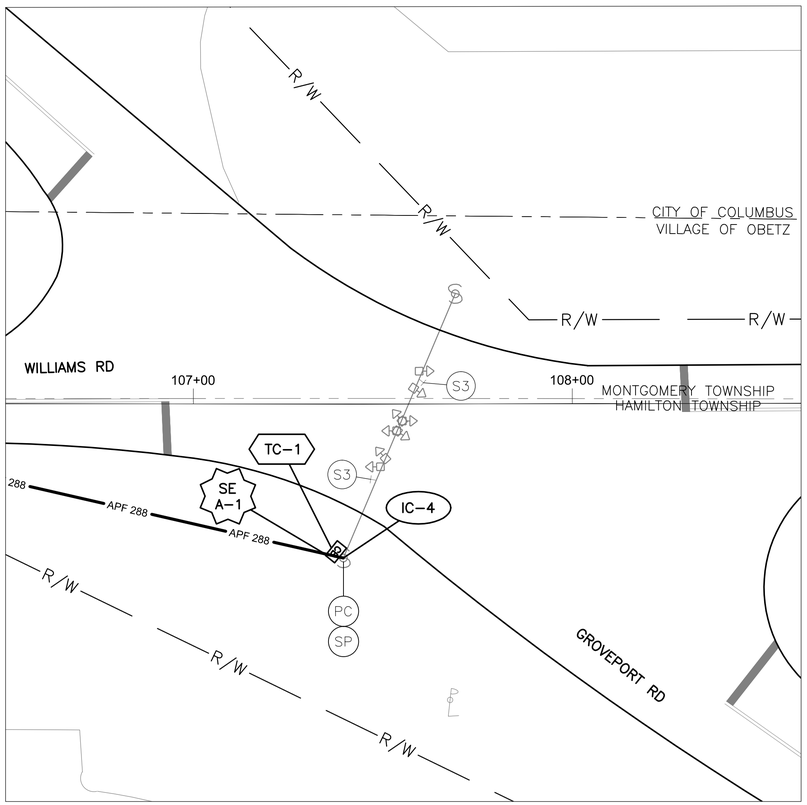
419
911

2953-E

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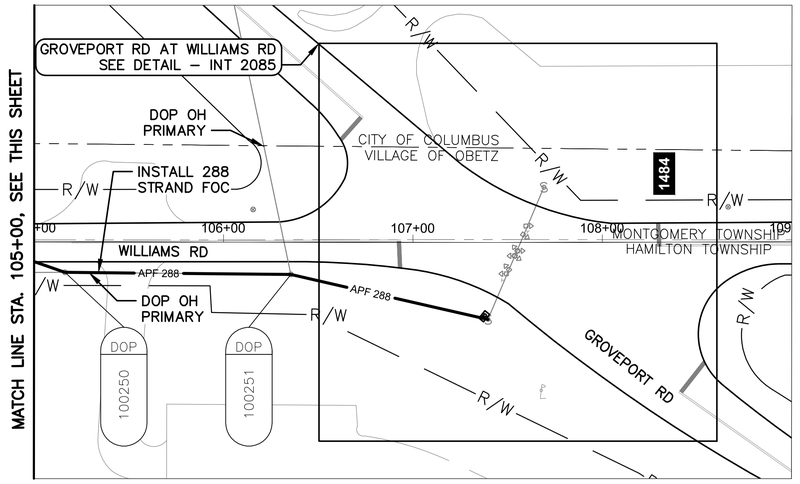
WILLIAMS RD BETWEEN STATION 95+00 AND 105+00



DETAIL - INT 2085

0 20 40

HORIZONTAL SCALE IN FEET



WILLIAMS RD BETWEEN STATION 105+00 AND 109+00

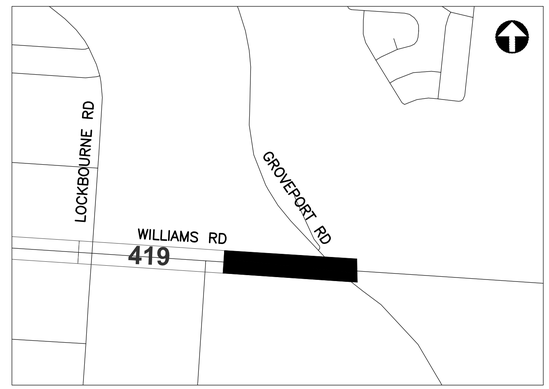
NOTES:

1. SEE SHEET 421 FOR QUANTITIES.
2. SEE SHEETS 611 & 787 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 270 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
WILLIAMS RD BETWEEN STA. 95+00 AND 109+00, INT 2085

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

420
911

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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.: 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)	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)
WILLIAMS RD. BETWEEN STA. 25+00 AND 36+00, INT 2083																
416	IC-1	WILLIAMS RD	26+57, 28' RT	26+69, 103' LT	134					134						
416	SE A-1	WILLIAMS RD	26+57, 28' RT		375		1									
416	IC-5	WILLIAMS RD	26+57, 28' RT	26+57, 28' RT				2								
416	TC-1	WILLIAMS RD	26+57, 28' RT										4	1	1	
416	IC-2	WILLIAMS RD	26+57, 28' RT	26+59, 129' RT	103					103						
416	IC-3	WILLIAMS RD	26+57, 28' RT	36+00, 20' RT	957					957						
416	IC-4	WILLIAMS RD	34+96, 15' RT		150											
WILLIAMS RD. BETWEEN STA. 36+00 AND 58+00																
417	IC-1	WILLIAMS RD	36+00, 20' RT	58+00, 17' RT	2233					2233						
417	IC-2	WILLIAMS RD	44+73, 18' RT		150											
WILLIAMS RD. BETWEEN STA. 58+00 AND 79+00																
418	IC-1	WILLIAMS RD	58+00, 17' RT	79+00, 20' LT	2137					2137						
418	IC-2	WILLIAMS RD	60+15, 17' RT		150											
418	IC-3	WILLIAMS RD	64+05, 18' LT		150											
418	IC-4	WILLIAMS RD	74+36, 19' LT		150											
WILLIAMS RD. BETWEEN STA. 79+00 AND 95+00, INT 2084																
419	IC-1	WILLIAMS RD	79+00, 20' LT	80+11, 21' LT	114					114						
419	EC-1	WILLIAMS RD	80+02, 30' RT								45					
419	IC-4	WILLIAMS RD	80+02, 30' RT	80+11, 21' LT				1		53						
419	CTV-1	WILLIAMS RD	80+02, 30' RT									1				
419	TC-1	WILLIAMS RD	80+02, 30' RT										2	1	1	
419	SE A-1	WILLIAMS RD	80+11, 21' LT		150	1										
419	IC-2	WILLIAMS RD	80+11, 21' LT	95+00, 18' LT	1511					1511						
419	IC-3	WILLIAMS RD	90+90, 20' LT		150											
WILLIAMS RD. BETWEEN STA. 95+00 AND 109+00, INT 2085																
420	IC-1	WILLIAMS RD	95+06, 18' LT	107+39, 41' RT	1280					1280						
420	IC-2	WILLIAMS RD	97+84, 14' LT		150											
420	IC-3	WILLIAMS RD	99+05, 14' LT		150											
420	SE A-1	WILLIAMS RD	107+39, 41' RT		75	1										
420	IC-4	WILLIAMS RD	107+39, 41' RT	107+39, 41' RT				1								
420	TC-1	WILLIAMS RD	107+39, 41' RT										2	1	1	
SHEET TOTAL					10269	2	1	3	1	8522	45	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

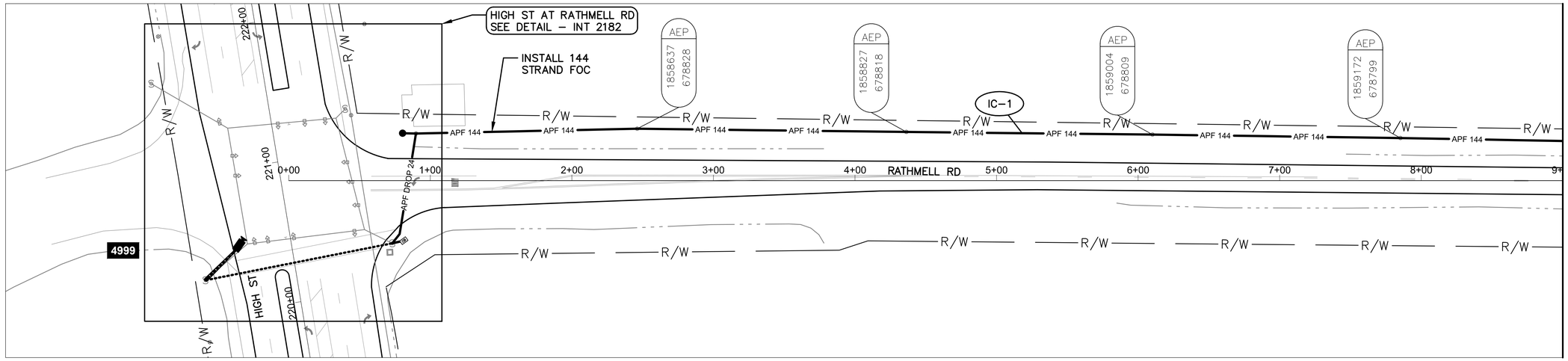
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PID NUMBER: 14522

WILLIAMS RD. BTW STA. 25+00 & 109+00
INTS 2083, 2084, 2085

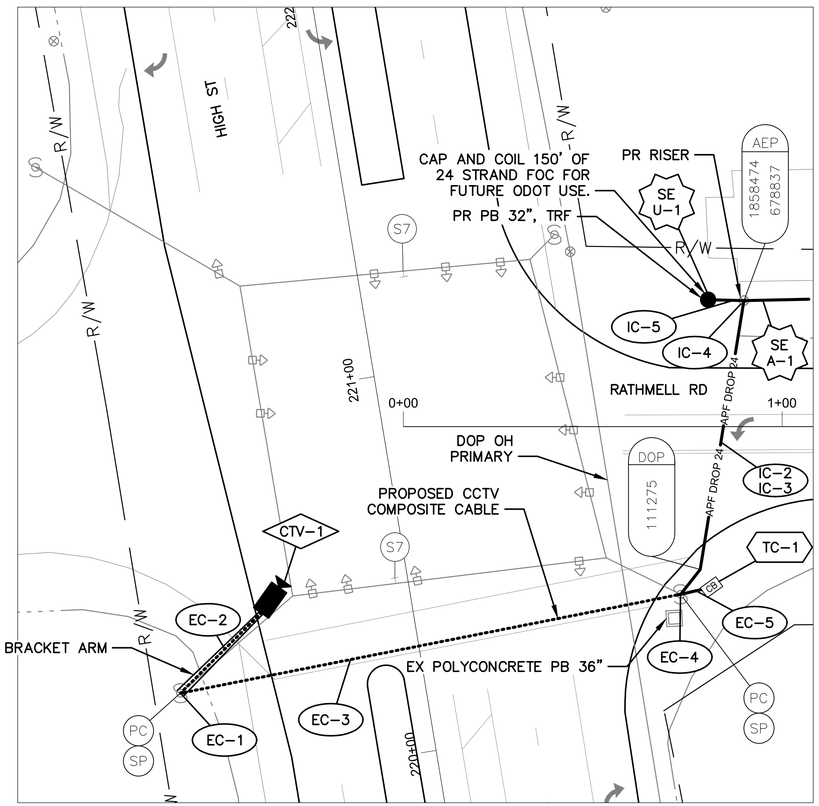
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

421
911

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RATHMELL RD BETWEEN STATION 0+00 AND 9+00



DETAIL - INT 2182

0 20 40
HORIZONTAL
SCALE IN FEET

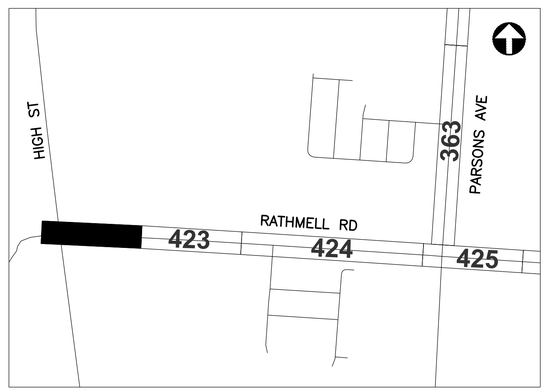
NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEETS 611 & 781 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

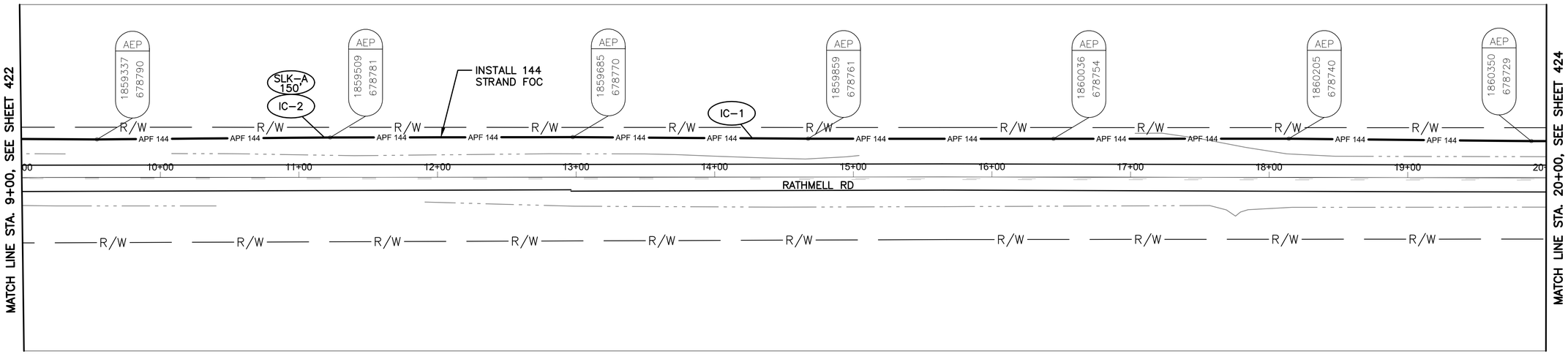
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PID NUMBER: 14522

INTERCONNECT PLAN
RATHEMLL RD BETWEEN STA. 0+00 AND 9+00, INT 2182

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

422
911

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RATHMELL RD BETWEEN STATION 9+00 AND 20+00

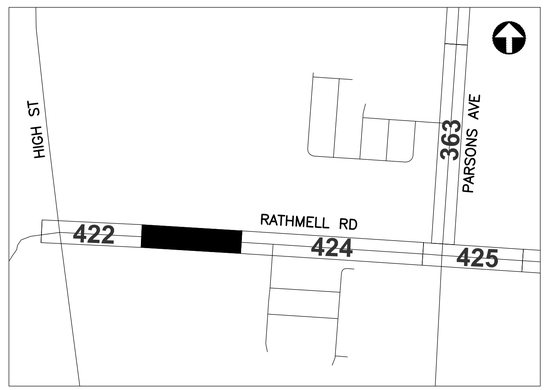
NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEET 611 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

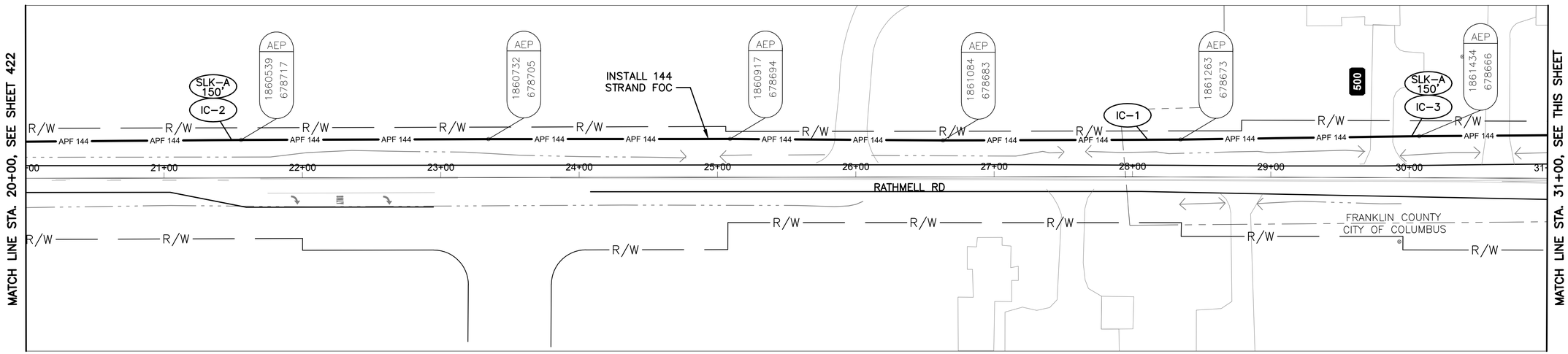
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PID NUMBER: 14522

INTERCONNECT PLAN
RATHEMLL RD BETWEEN STA. 9+00 AND 20+00

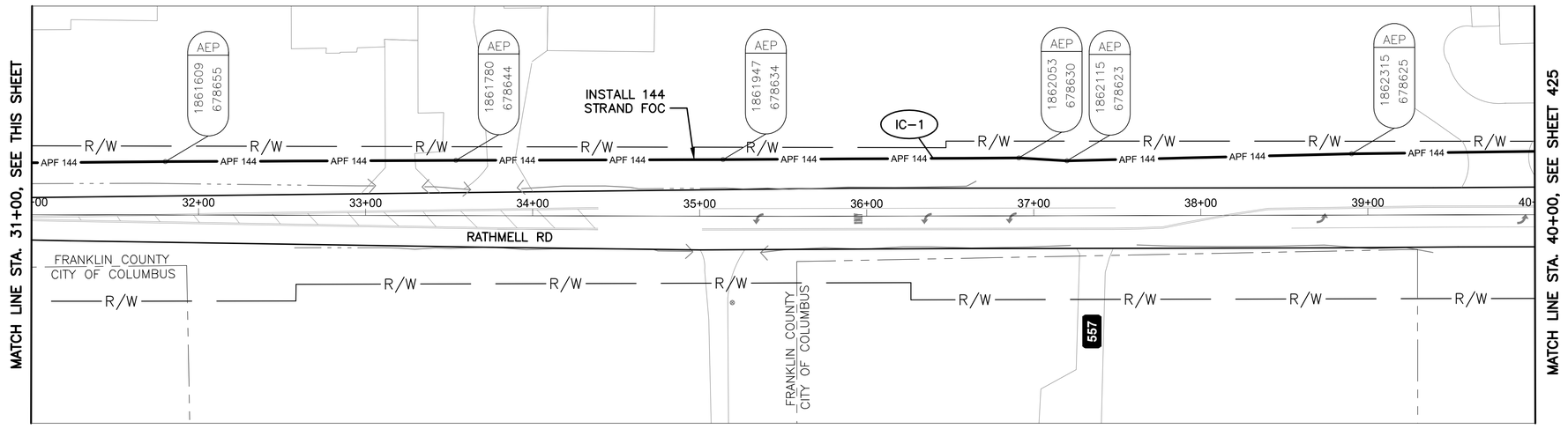
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

423
911

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RATHMELL RD BETWEEN STATION 20+00 AND 31+00



RATHMELL RD BETWEEN STATION 31+00 AND 40+00

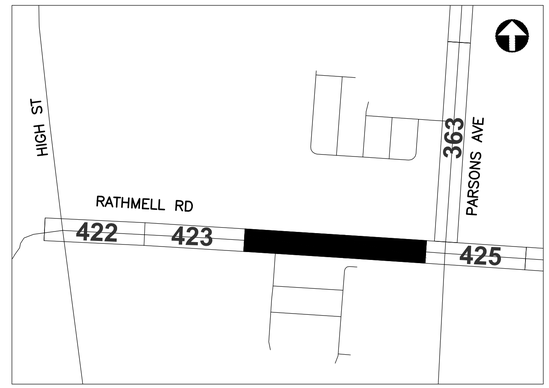
NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

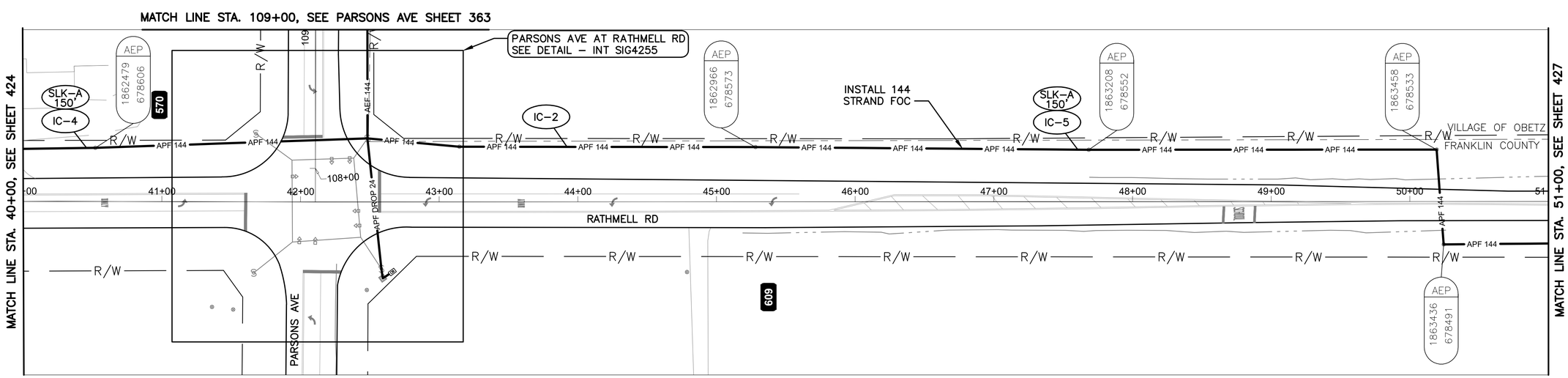
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PID NUMBER: 14522

INTERCONNECT PLAN
RATHMELL RD BETWEEN STA. 20+00 AND 40+00

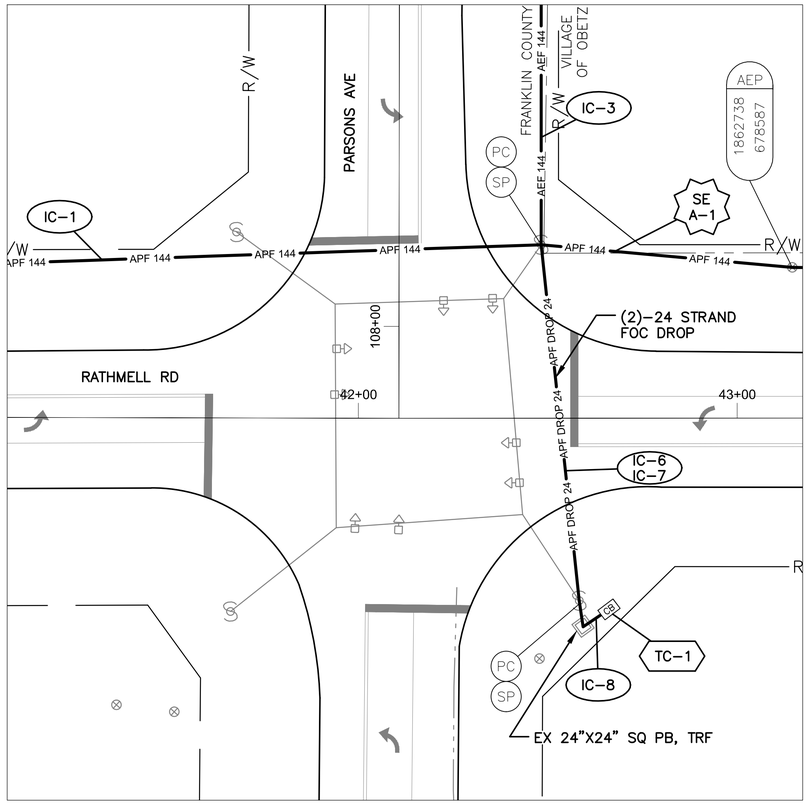
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

424
911

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RATHMELL RD BETWEEN STATION 40+00 AND 51+00



DETAIL - INT SIG4255

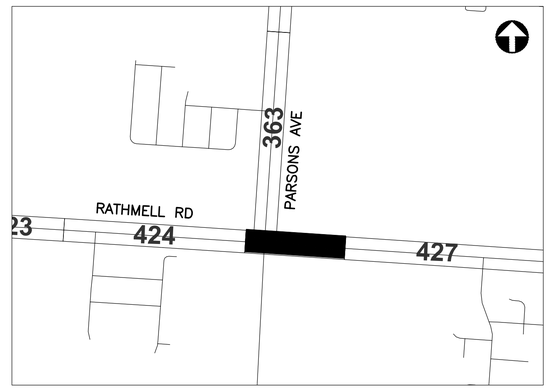
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 426 FOR QUANTITIES.
2. SEE SHEETS 611 & 782 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT SIG4255, 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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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
RATHMELL RD BETWEEN STA. 40+00 AND 51+00, INT SIG4255

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

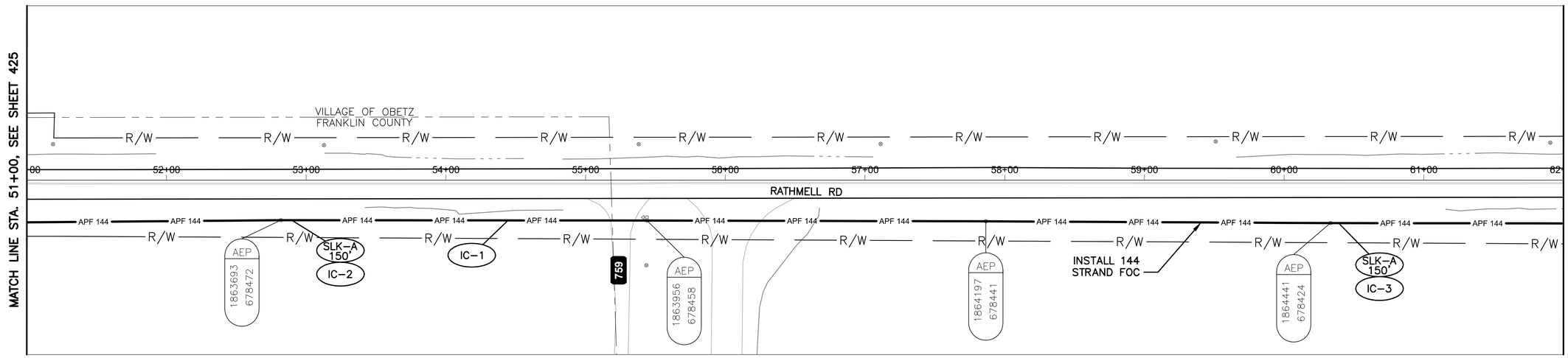
425
911

2953-E

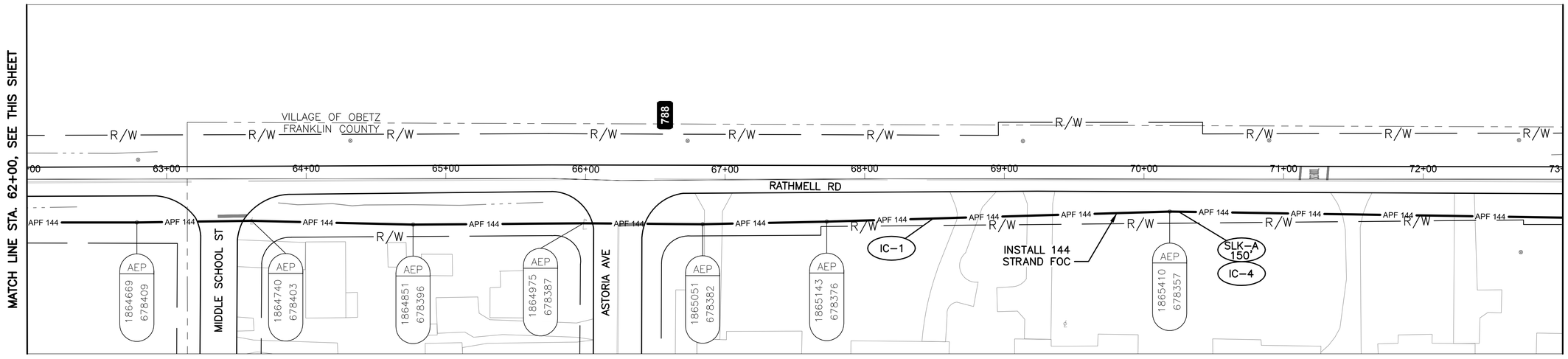
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ESTIMATED QUANTITIES

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)	625 CONDUIT, 2", AS PER PLAN (FT)	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 CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING 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.: INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	
RATHMELL RD. BETWEEN STA. 0+00 AND 9+00, INT 2182																									
422	CTV-1	HIGH ST	220+27, 34' LT																	1					
422	EC-1	HIGH ST	220+25, 64' LT			1																			
422	EC-2	HIGH ST	220+25, 64' LT	220+27, 34' LT															30						
422	EC-3	HIGH ST	220+25, 64' LT	220+30, 70' RT														137	137						
422	IC-2	RATHMELL RD	0+73, 44' RT	0+89, 33' LT														81							
422	EC-4	RATHMELL RD	0+73, 44' RT																35						
422	EC-5	RATHMELL RD	0+73, 44' RT	0+81, 42' RT	8														8						
422	SE U-1	RATHMELL RD	0+80, 33' LT					1				225		1											
422	IC-5	RATHMELL RD	0+80, 33' LT	0+89, 33' LT			9		9			9													
422	IC-3	RATHMELL RD	0+81, 42' RT	0+89, 33' LT													1								
422	TC-1	RATHMELL RD	0+81, 42' RT																10		2		1	1	
422	IC-4	RATHMELL RD	0+89, 33' LT						1			35													
422	SE A-1	RATHMELL RD	0+89, 33' LT								75			1											
422	IC-1	RATHMELL RD	0+89, 33' LT	9+00, 28' LT							822							822							
RATHMELL RD. BETWEEN STA. 9+00 AND 20+00																									
423	IC-1	RATHMELL RD	9+00, 28' LT	20+00, 26' LT							1117							1117							
423	IC-2	RATHMELL RD	11+18, 29' LT								150														
RATHMELL RD. BETWEEN STA. 20+00 AND 40+00																									
424	IC-1	RATHMELL RD	20+00, 26' LT	40+00, 38' LT							2030							2030							
424	IC-2	RATHMELL RD	21+48, 27' LT								150														
424	IC-3	RATHMELL RD	30+01, 30' LT								150														
RATHMELL RD. BETWEEN STA. 40+00 AND 51+00, INT SIG4255																									
425	IC-1	RATHMELL RD	40+00, 38' LT	42+48, 46' LT							253							253							
425	IC-4	RATHMELL RD	40+45, 39' LT								150														
425	SE A-1	RATHMELL RD	42+48, 46' LT								375				1										
425	IC-3	RATHMELL RD	42+48, 46' LT	42+48, 125' LT							81		81												
425	IC-6	RATHMELL RD	42+48, 46' LT	42+58, 48' RT														94							
425	IC-2	RATHMELL RD	42+48, 46' LT	51+00, 30' RT							929							929							
425	IC-7	RATHMELL RD	42+48, 46' LT	42+66, 50' RT													2								
425	IC-8	RATHMELL RD	42+58, 48' RT	42+66, 50' RT	8																				
425	TC-1	RATHMELL RD	42+66, 50' RT																		4	1	1		
425	IC-5	RATHMELL RD	47+61, 37' LT								150														



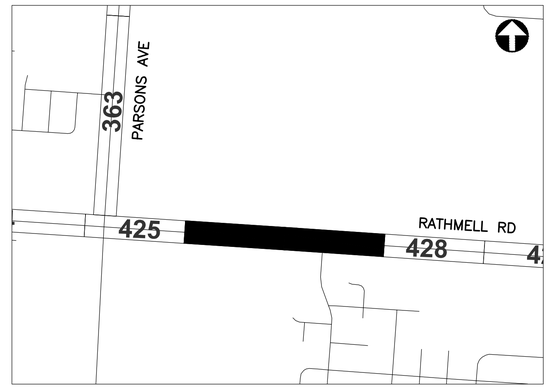
RATHMELL RD BETWEEN STATION 51+00 AND 62+00



RATHMELL RD BETWEEN STATION 62+00 AND 73+00

NOTES:

1. SEE SHEET 430 FOR QUANTITIES.
2. SEE SHEET 611 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

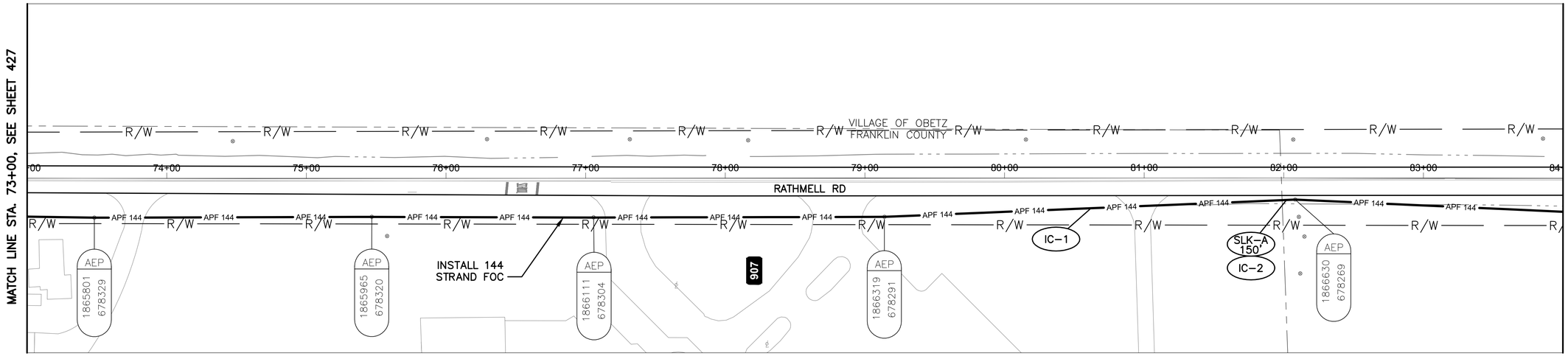
INTERCONNECT PLAN
RATHMELL RD BETWEEN STA. 51+00 AND 73+00

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

2953-E

427
911

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RATHMELL RD BETWEEN STATION 73+00 AND 84+00

NOTES:

1. SEE SHEET 430 FOR QUANTITIES.
2. SEE SHEET 611 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 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0
40
80

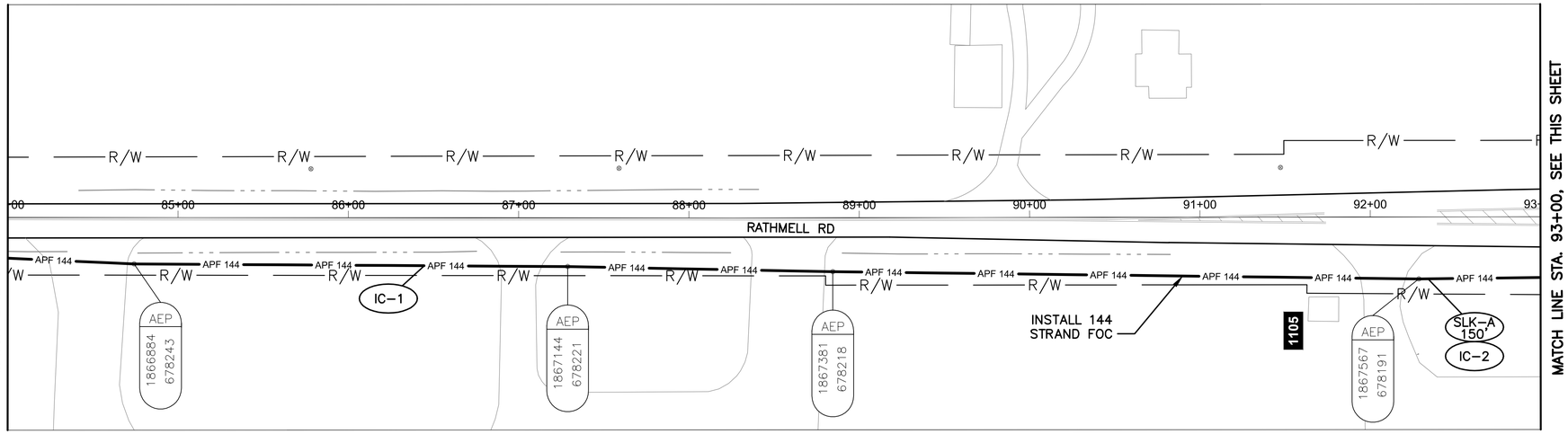
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PID NUMBER: 14522

INTERCONNECT PLAN
RATHMELL RD BETWEEN STA. 73+00 AND 84+00

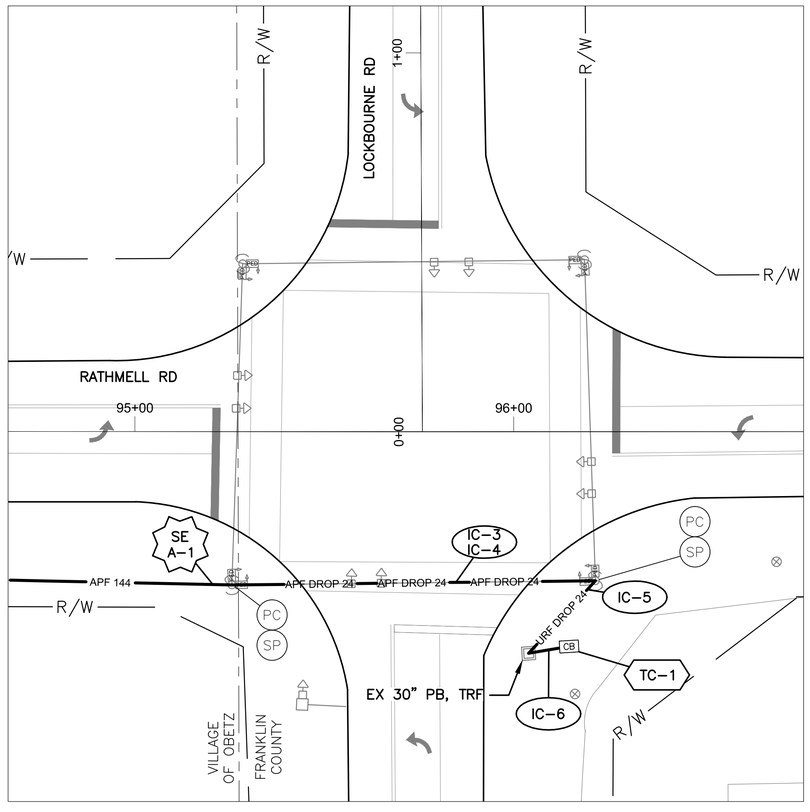
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c - CONSTRUCTION AS-BUILT

428
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_RATHMEL_INTERCONNECT.dwg ~ RATHMELL 5 layout ~ last saved by: sdlowry 05/08/2017 05:44pm ~ printed 05/08/2017 10:36pm



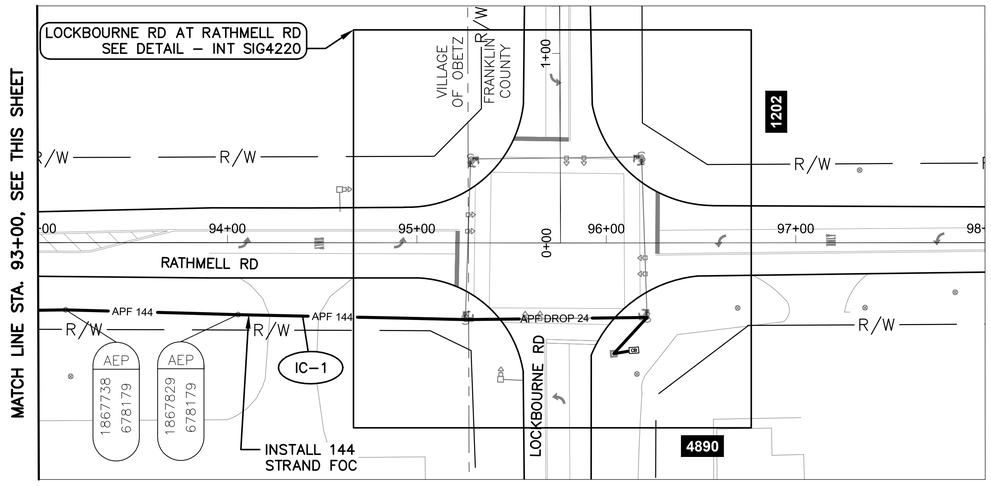
RATHMELL RD BETWEEN STATION 84+00 AND 93+00



DETAIL - INT SIG4220

0 20 40

HORIZONTAL
SCALE IN FEET



RATHMELL RD BETWEEN STATION 93+00 AND 98+00

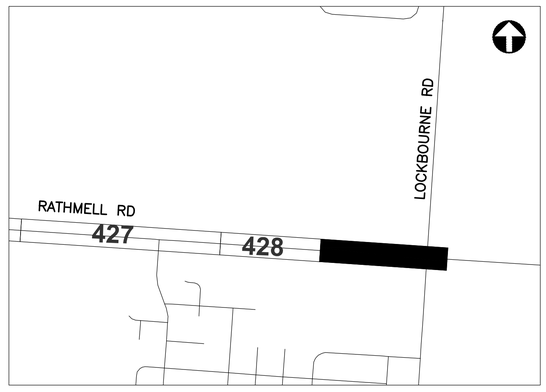
NOTES:

1. SEE SHEET 430 FOR QUANTITIES.
2. SEE SHEETS 611 & 783 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW CONDUIT FROM EXISTING PULL BOX INTO CONTROLLER CABINET. CONDUIT MAY HAVE TO ENTER THROUGH SIDE OF CABINET.

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 270 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
RATHMELL RD BETWEEN STA. 84+00 AND 98+00, INT SIG4220

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

429
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	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 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
RATHMELL RD. BETWEEN STA. 51+00 AND 73+00												
427	IC-1	RATHMELL RD	51+00, 30' RT	73+00, 27' RT			2233			2233		
427	IC-2	RATHMELL RD	52+90, 29' RT				150					
427	IC-3	RATHMELL RD	60+38, 31' RT				150					
427	IC-4	RATHMELL RD	70+24, 23' RT				150					
RATHMELL RD. BETWEEN STA. 73+00 AND 84+00												
428	IC-1	RATHMELL RD	73+00, 27' RT	84+00, 24' RT			1118			1118		
428	IC-2	RATHMELL RD	82+01, 16' RT				150					
RATHMELL RD. BETWEEN STA. 84+00 AND 98+00, INT SIG4220												
429	IC-1	RATHMELL RD	84+00, 24' RT	95+25, 40' RT			1143			1143		
429	IC-2	RATHMELL RD	92+33, 36' RT				150					
429	SE A-1	RATHMELL RD	95+25, 40' RT				75	1				
429	IC-4	RATHMELL RD	95+25, 40' RT	96+14, 57' RT					1			
429	IC-3	RATHMELL RD	95+25, 40' RT	96+21, 39' RT						97		
429	TC-1	RATHMELL RD	96+14, 57' RT								2	1
429	IC-5	RATHMELL RD	96+04, 58' RT	96+21, 39' RT	26							
429	IC-6	RATHMELL RD	96+04, 58' RT	96+14, 57' RT		10						
SHEET TOTAL					26	10	5319	1	1	4591	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

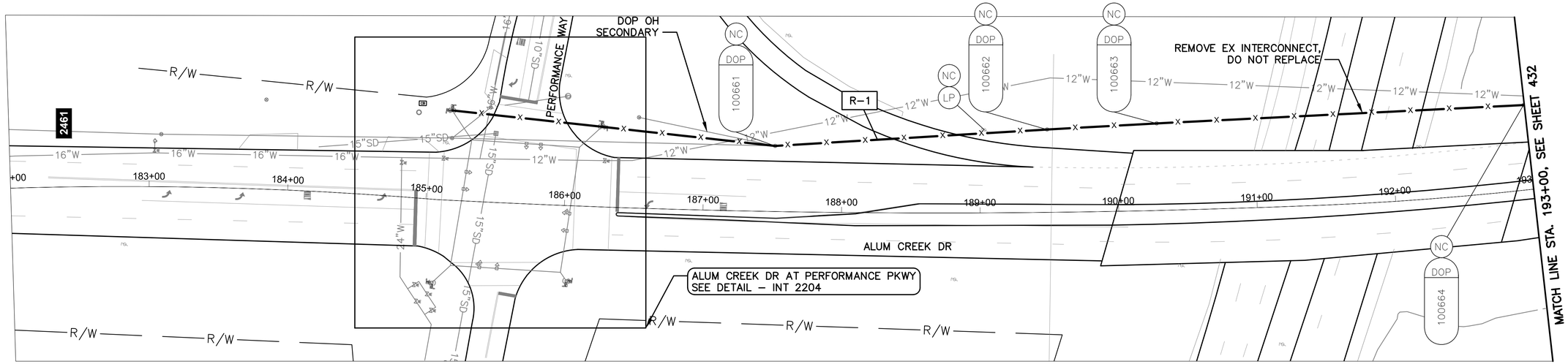
CIP: 540007–100005
PID NUMBER: 14522

RATHMELL RD. BTW STA. 51+00 & 98+00
INT SIG4220

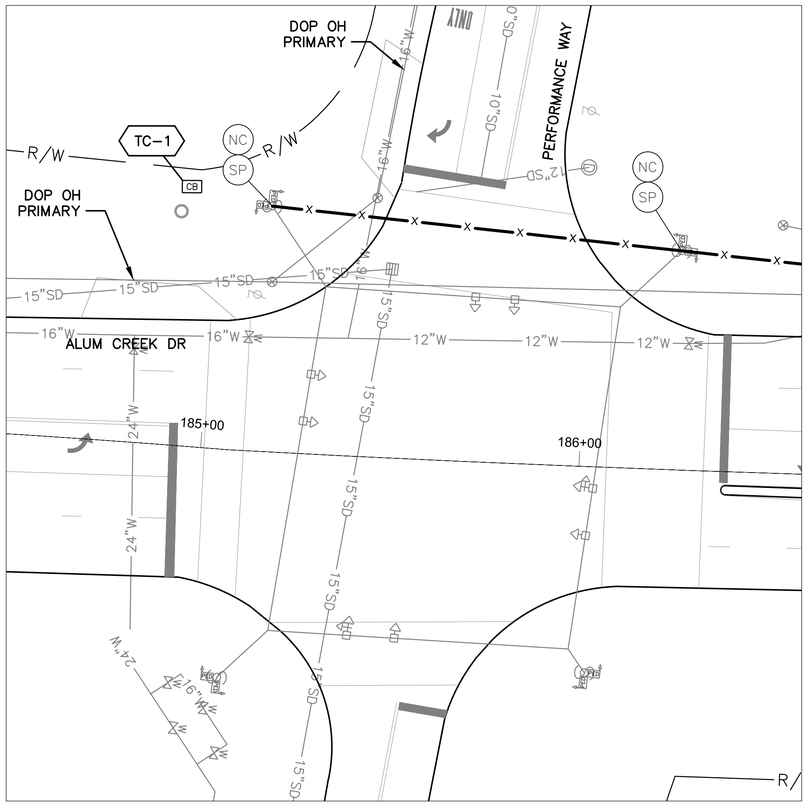
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

430
911

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ALUM CREEK DR BETWEEN STATION 182+00 AND 193+00



DETAIL - INT 2204

0 20 40
HORIZONTAL SCALE IN FEET

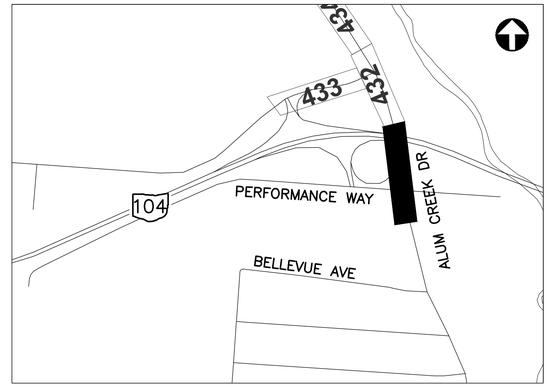
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 606 & 817 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. INTERSECTION MUST BE ON NEW SYSTEM BEFORE EXISTING INTERCONNECT IS REMOVED.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

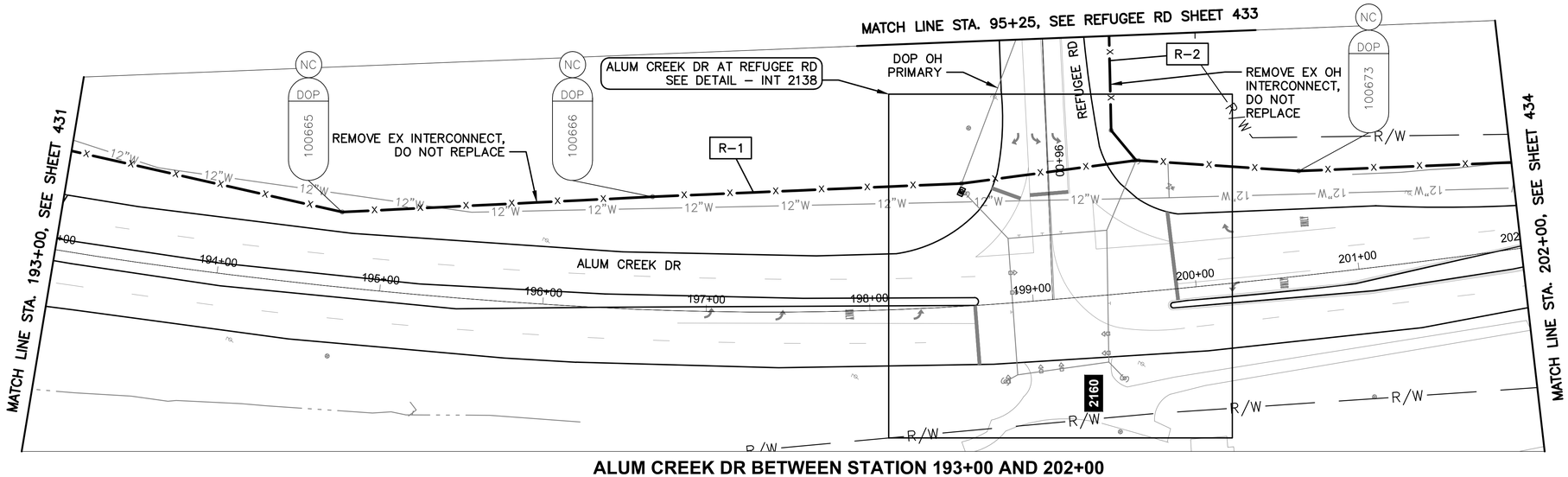
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 182+00 AND 193+00, INT 2204

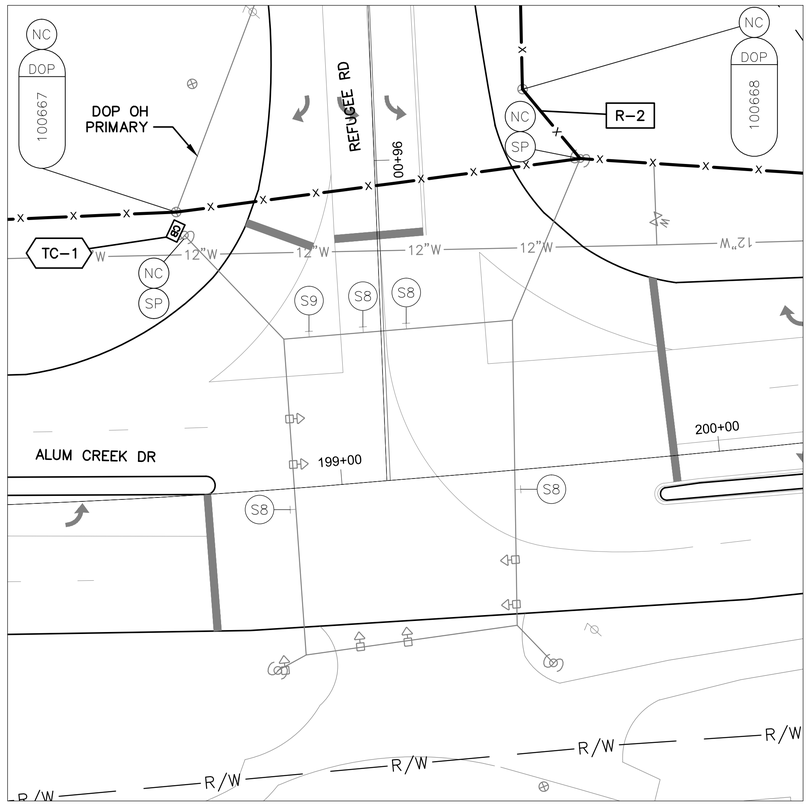
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

431
911

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ALUM CREEK DR BETWEEN STATION 193+00 AND 202+00



DETAIL - INT 2138

0 20 40
HORIZONTAL
SCALE IN FEET

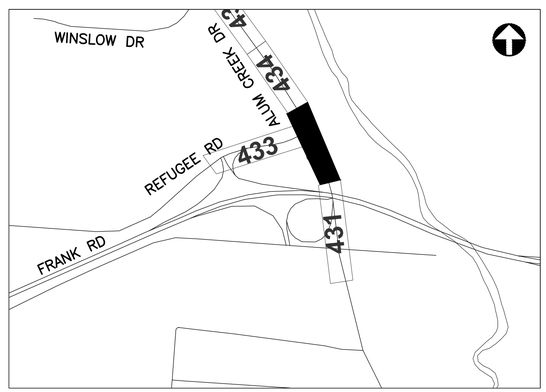
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 606 & 819 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

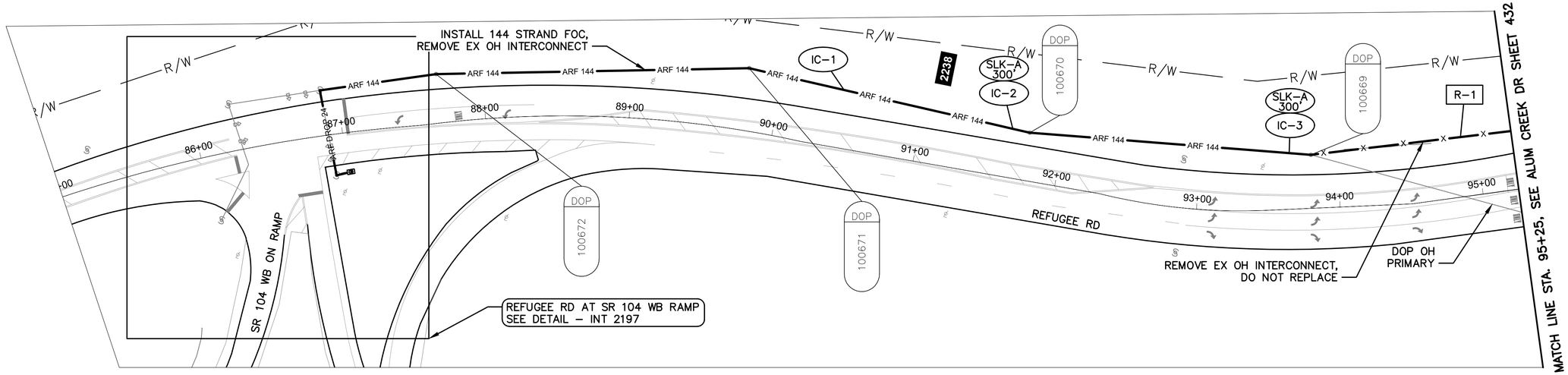
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 193+00 AND 202+00, INT 2138

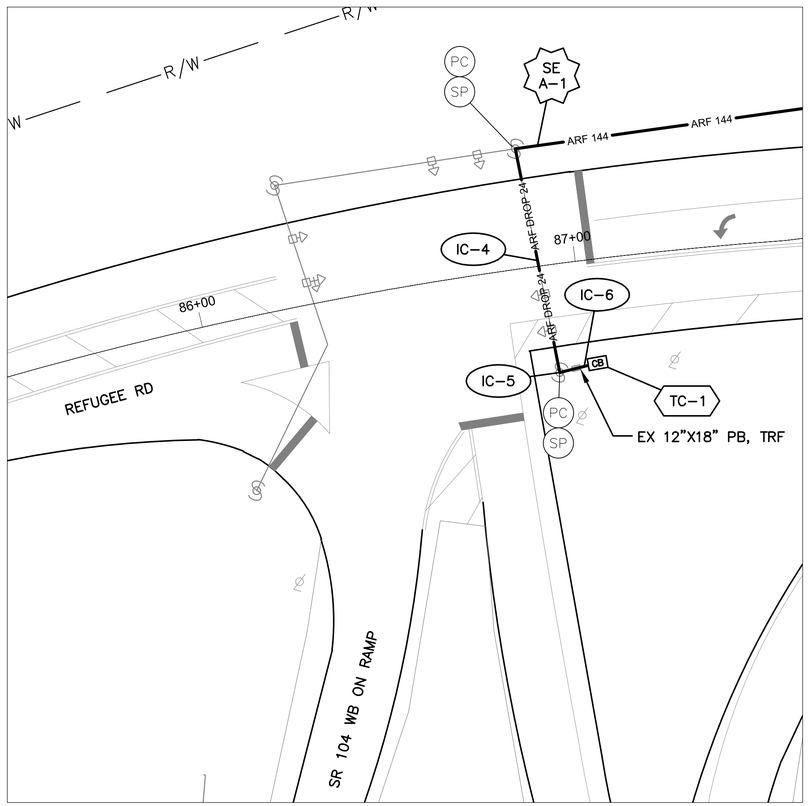
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

432
911

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REFUGEE RD BETWEEN STATION 85+00 AND 95+25



DETAIL - INT 2197

0 20 40
HORIZONTAL
SCALE IN FEET

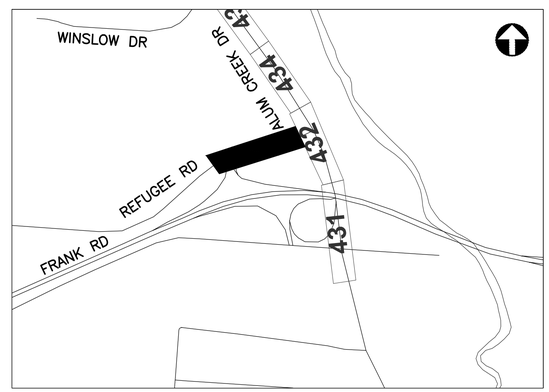
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 606 & 818 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

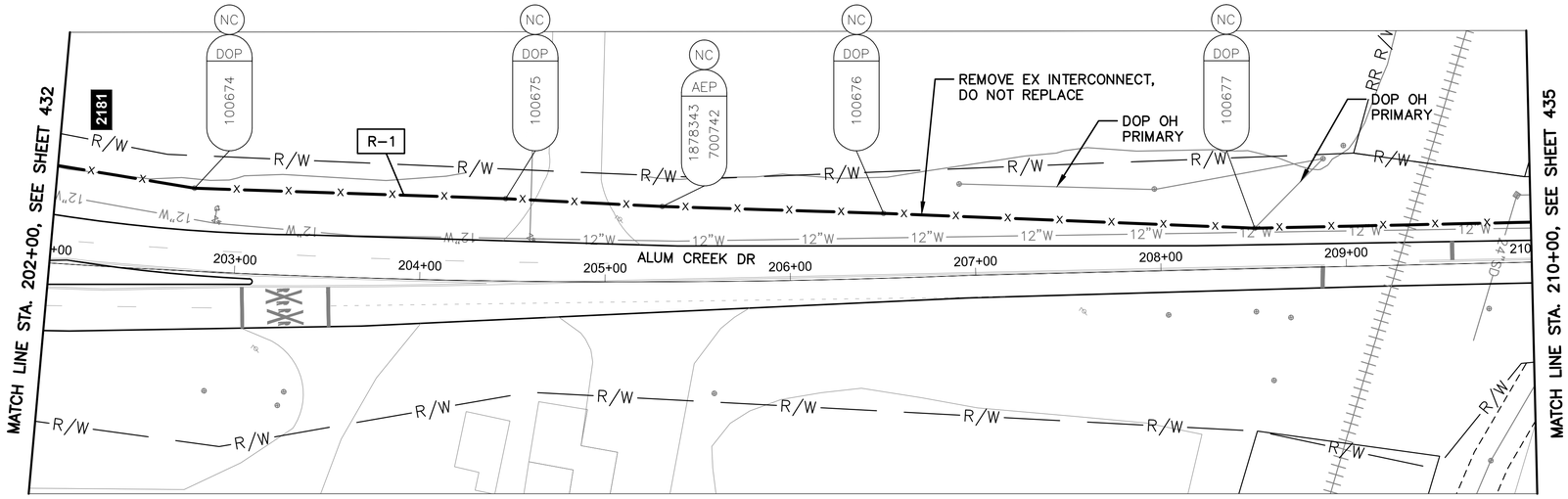
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 85+00 AND 95+25, INT 2197

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

2953-E

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ALUM CREEK DR BETWEEN STATION 202+00 AND 210+00

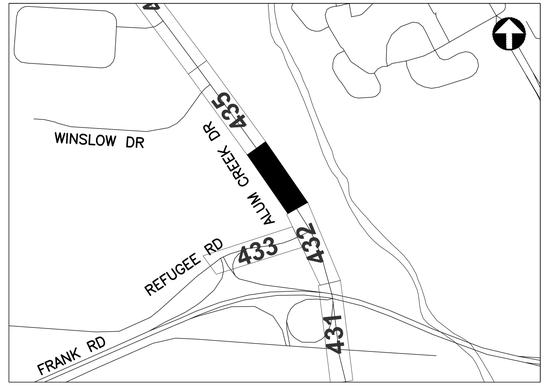
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEET 606 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

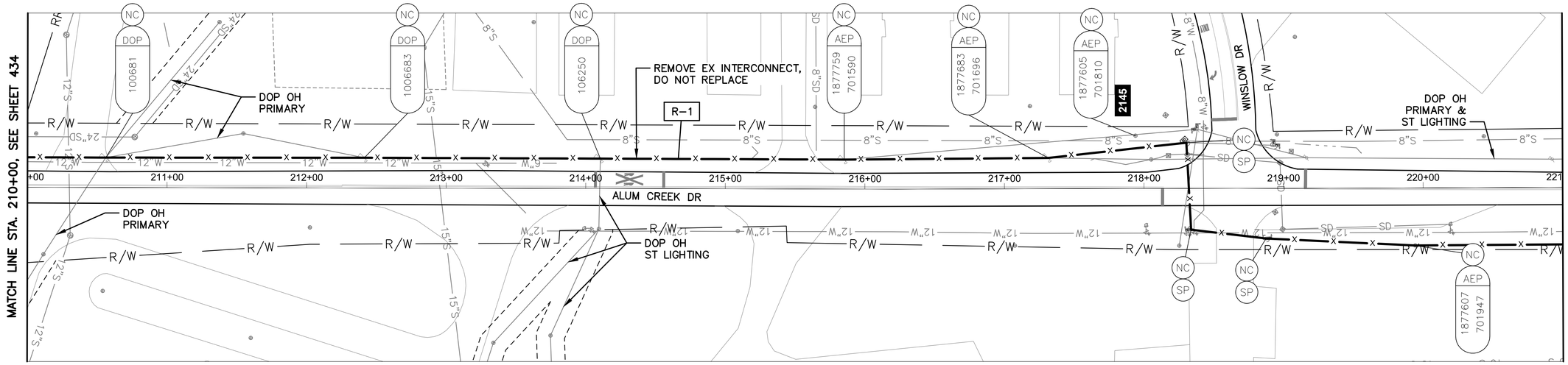
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 202+00 AND 210+00

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

434
911

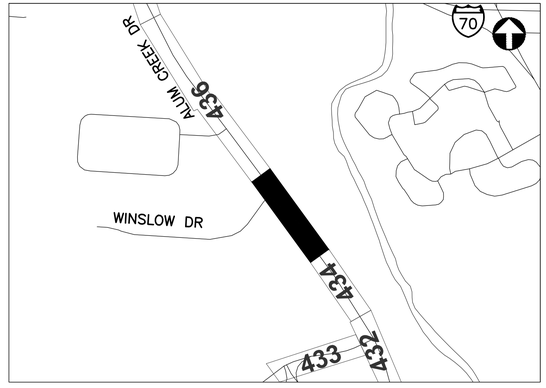
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ALUM CREEK DR BETWEEN STATION 210+00 AND 221+00

NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEET 606 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

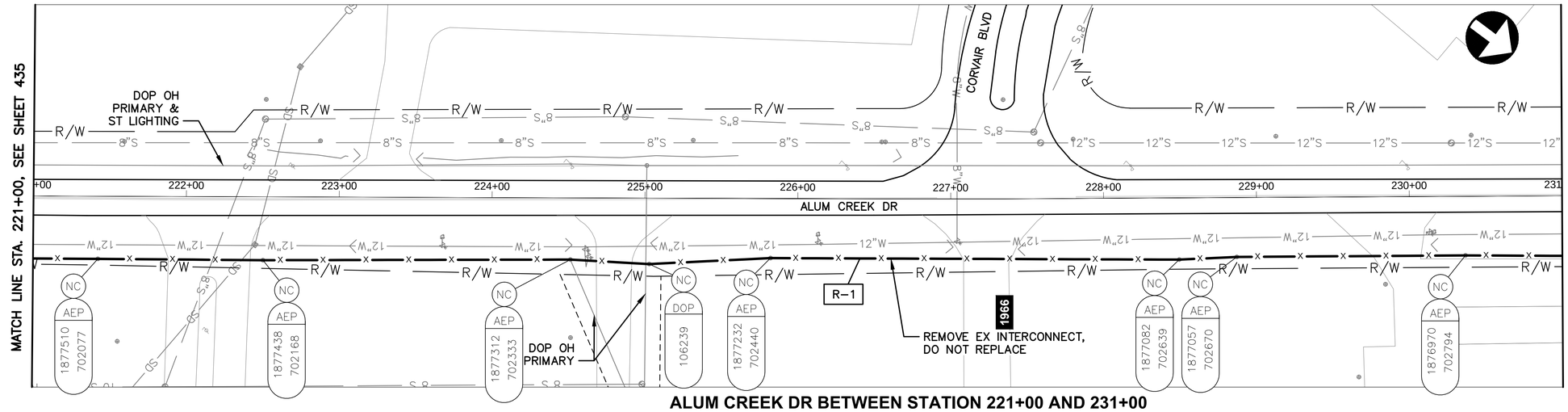
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 210+00 AND 221+00

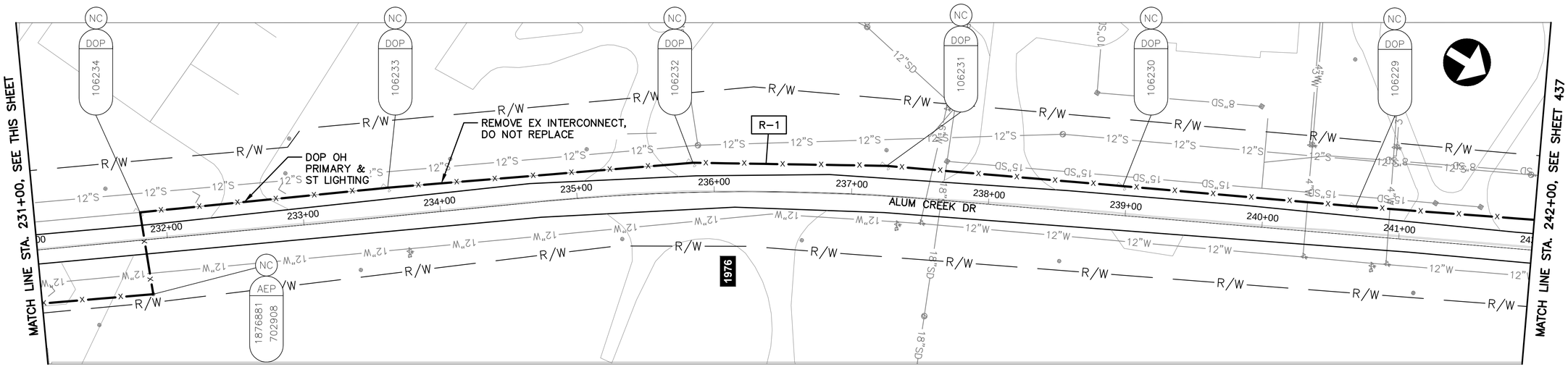
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

435
911

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ALUM CREEK DR BETWEEN STATION 221+00 AND 231+00



ALUM CREEK DR BETWEEN STATION 231+00 AND 242+00

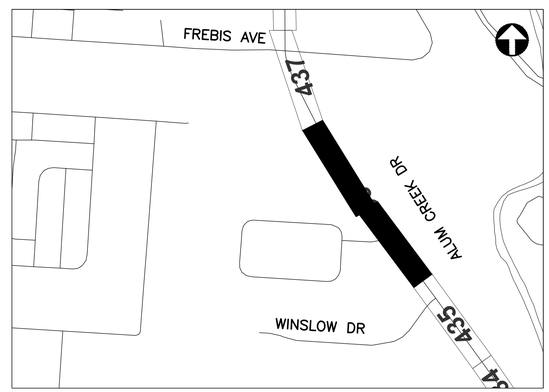
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEET 606 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

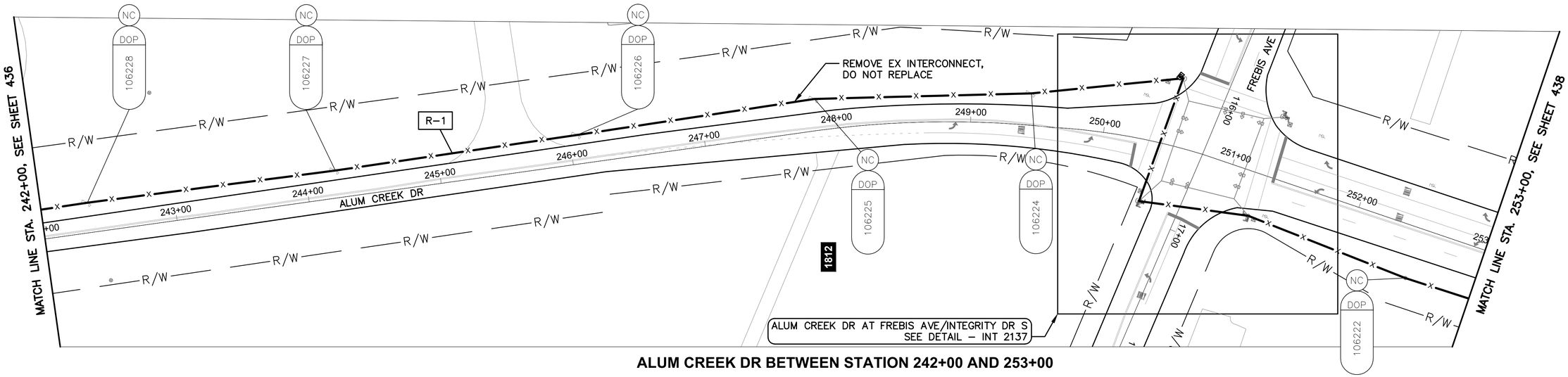
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INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 221+00 AND 242+00

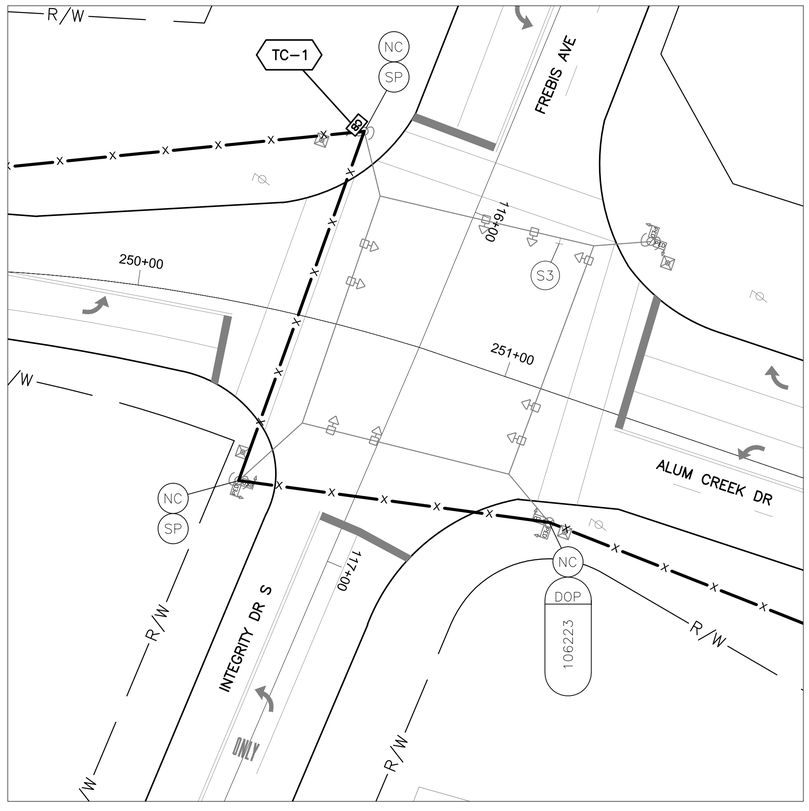
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

436
911

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ALUM CREEK DR BETWEEN STATION 242+00 AND 253+00



DETAIL - INT 2137

0 20 40
HORIZONTAL SCALE IN FEET

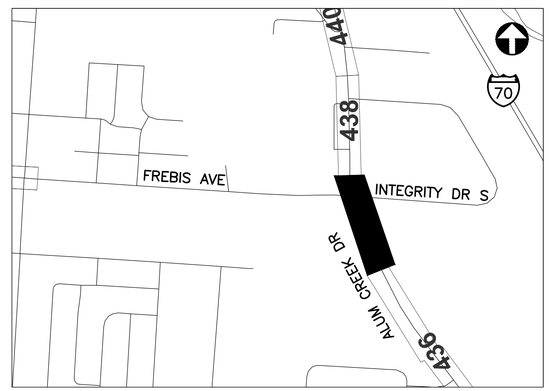
NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 606 & 820 FOR COMMUNICATION DETAILS.
3. INTERSECTION MUST BE ON NEW SYSTEM BEFORE EXISTING INTERCONNECT IS REMOVED.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

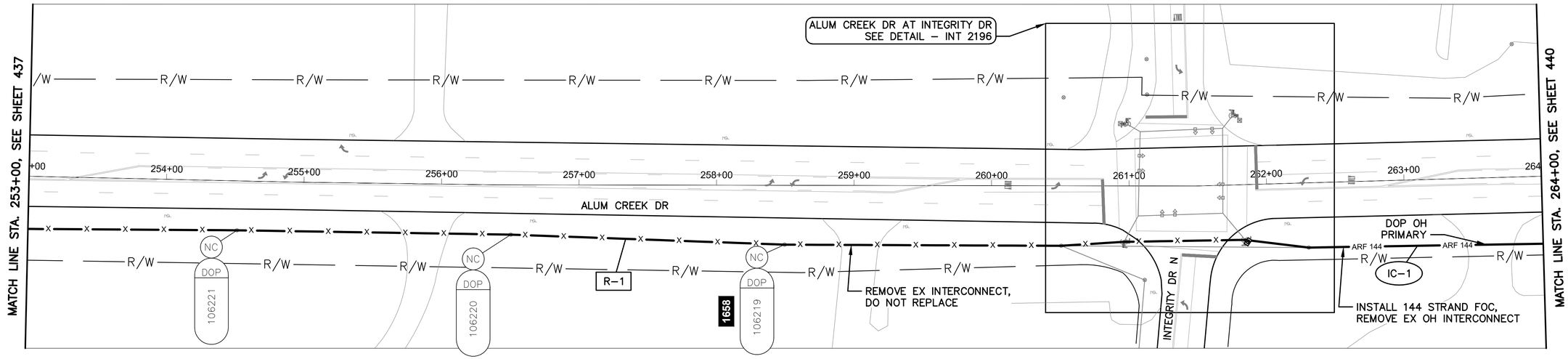
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 242+00 AND 253+00, INT 2137

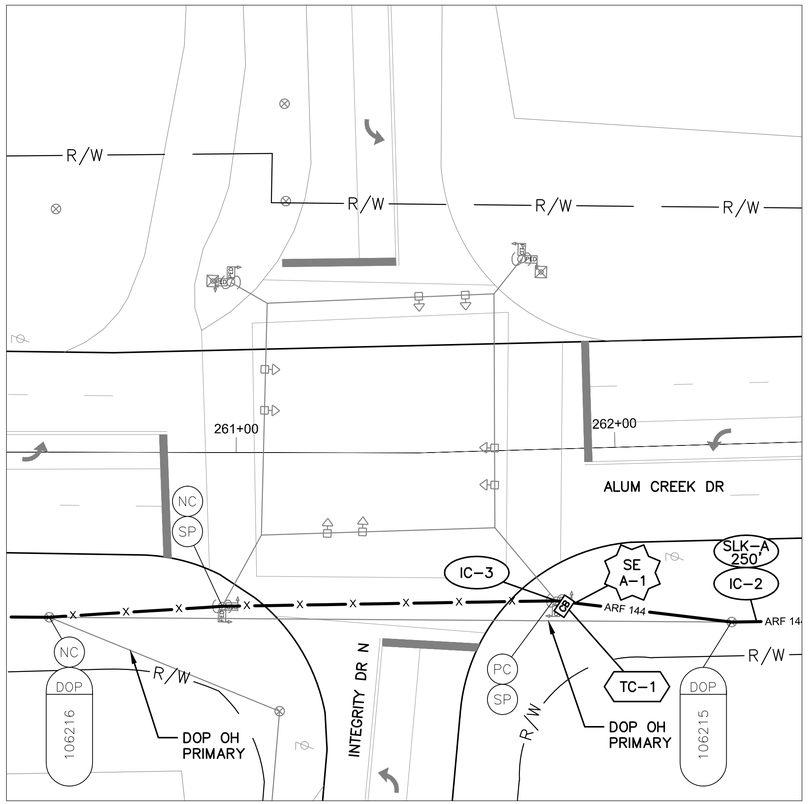
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

437
911

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ALUM CREEK DR BETWEEN STATION 253+00 AND 264+00



DETAIL - INT 2196

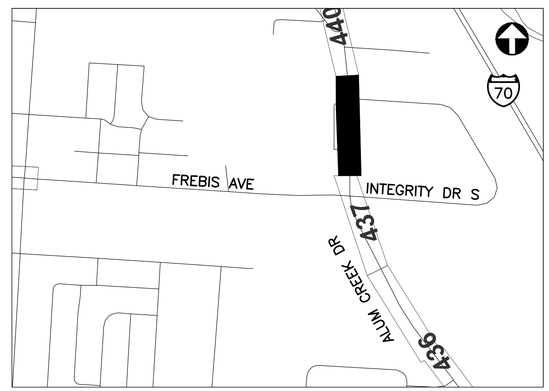
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 439 FOR QUANTITIES.
2. SEE SHEETS 612 & 821 FOR COMMUNICATION DETAILS.
3. INTERSECTION MUST BE ON NEW SYSTEM BEFORE EXISTING INTERCONNECT IS REMOVED.

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



REFER TO SHEET 271 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
ALUM CREEK DR BETWEEN STA. 253+00 AND 264+00, INT 2196

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

438
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_ALUMCREEK2_INTERCONNECT.dwg – ALUMCREEK 7 layout ~ last saved by: sdlowry 05/08/2017 05:56pm ~ printed 05/08/2017 10:43am

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	632	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.: 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.: CELLULAR ETHERNET COMMUNICATIONS UNIT	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	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH									
ALUM CREEK DR. BETWEEN STA. 182+00 AND 193+00, INT 2204																									
431	TC-1	ALUM CREEK DR	184+92, 68' LT										1		1	1									
431	R-1	ALUM CREEK DR	185+15, 65' LT	193+00, 61' LT			775																		
ALUM CREEK DR. BETWEEN STA. 193+00 AND 202+00, INT 2138																									
432	R-1	ALUM CREEK DR	193+00, 61' LT	202+00, 53' LT			886																		
432	TC-1	ALUM CREEK DR	198+62, 69' LT										1		1	1									
432	R-2	ALUM CREEK DR	199+60, 158' LT	199+70, 80' LT			82																		
REFUGEE RD. BETWEEN STA. 85+00 AND 95+25, INT 2197																									
433	SE A-1	REFUGEE RD	86+88, 32' LT			75			1																
433	IC-1	REFUGEE RD	86+88, 32' LT	93+81, 37' LT		706	696					706													
433	IC-4	REFUGEE RD	86+88, 32' LT	86+92, 29' RT			60					61													
433	IC-5	REFUGEE RD	86+88, 32' LT	87+02, 27' RT							1														
433	IC-6	REFUGEE RD	86+92, 29' RT	87+02, 27' RT	10			10																	
433	TC-1	REFUGEE RD	87+02, 27' RT										1	1	1	1									
433	IC-2	REFUGEE RD	91+64, 34' LT			300																			
433	IC-3	REFUGEE RD	93+86, 39' LT			300																			
433	R-1	REFUGEE RD	93+81, 37' LT	95+25, 41' LT			140																		
ALUM CREEK DR. BETWEEN STA. 202+00 AND 210+00																									
434	R-1	ALUM CREEK DR	202+00, 53' LT	210+00, 22' LT			796																		
ALUM CREEK DR. BETWEEN STA. 210+00 AND 221+00																									
435	R-1	ALUM CREEK DR	210+00, 22' LT	221+00, 41' RT			1160																		
ALUM CREEK DR. BETWEEN STA. 221+00 AND 242+00																									
436	R-1	ALUM CREEK DR	221+00, 41' LT	242+00, 22' LT			2169																		
ALUM CREEK DR. BETWEEN STA. 242+00 AND 253+00, INT 2137																									
437	R-1	ALUM CREEK DR	242+00, 22' LT	253+00, 38' RT			1220																		
437	TC-1	ALUM CREEK DR	250+48, 51' LT										1		1	1									
ALUM CREEK DR. BETWEEN STA. 253+00 AND 264+00, INT 2196																									
438	R-1	ALUM CREEK DR	253+00, 38' RT	261+83, 40' RT			886																		
438	SE A-1	ALUM CREEK DR	261+83, 40' RT			150			1																
438	IC-3	ALUM CREEK DR	261+83, 40' RT	261+83, 40' RT						1															
438	TC-1	ALUM CREEK DR	261+83, 40' RT											2	1	1									
438	IC-1	ALUM CREEK DR	261+83, 40' RT	264+00, 49' RT		220	217					220													
438	IC-2	ALUM CREEK DR	262+39, 47' RT			250																			
SHEET TOTAL					10	2001	9087	10	2	1	1	987	4	3	5	5	-	-	-	-	-	-	-	-	

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

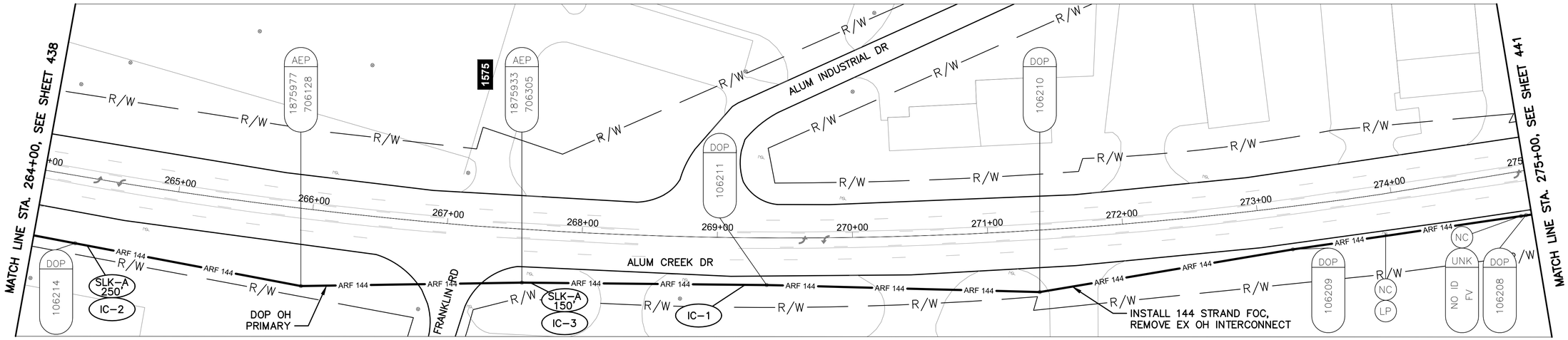
CIP: 540007–100005
PID NUMBER: 14522

ALUM CREEK DR. BTW STA. 182+00 & 264+00, INTS 2204, 2138, 2137, 2196, REFUGEE RD. BTW STA. 85+00 & 95+25, INT 2197

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

439
911

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ALUM CREEK DR BETWEEN STATION 264+00 AND 275+00

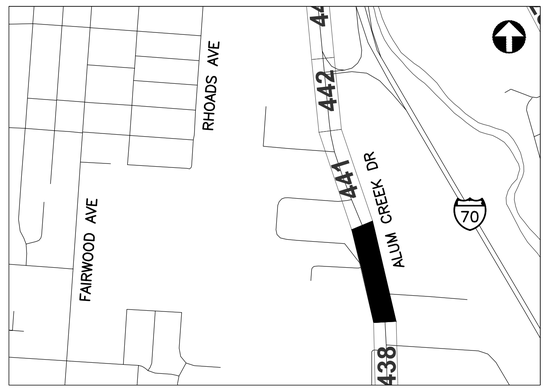
NOTES:

1. SEE SHEET 444 FOR QUANTITIES.
2. SEE SHEET 612 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

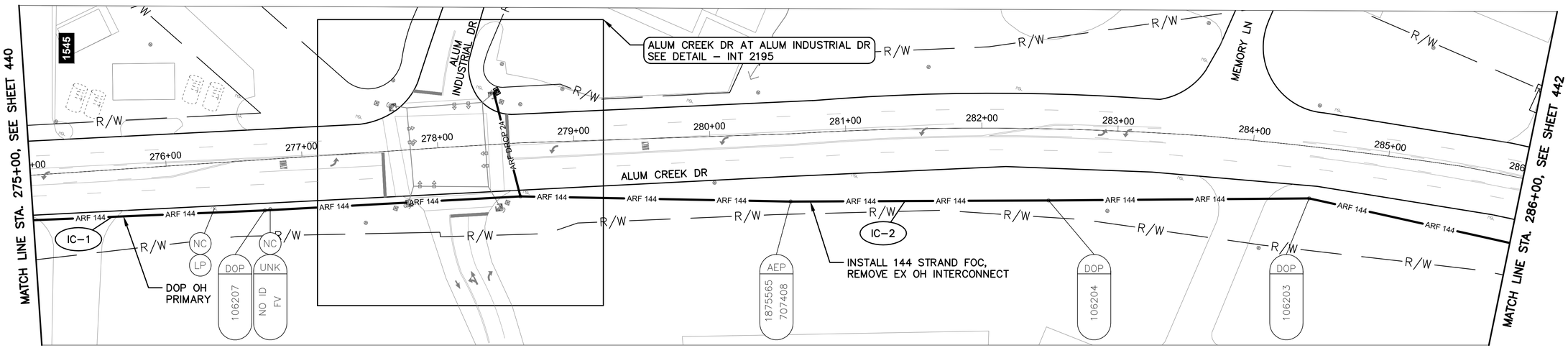
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 264+00 AND 275+00

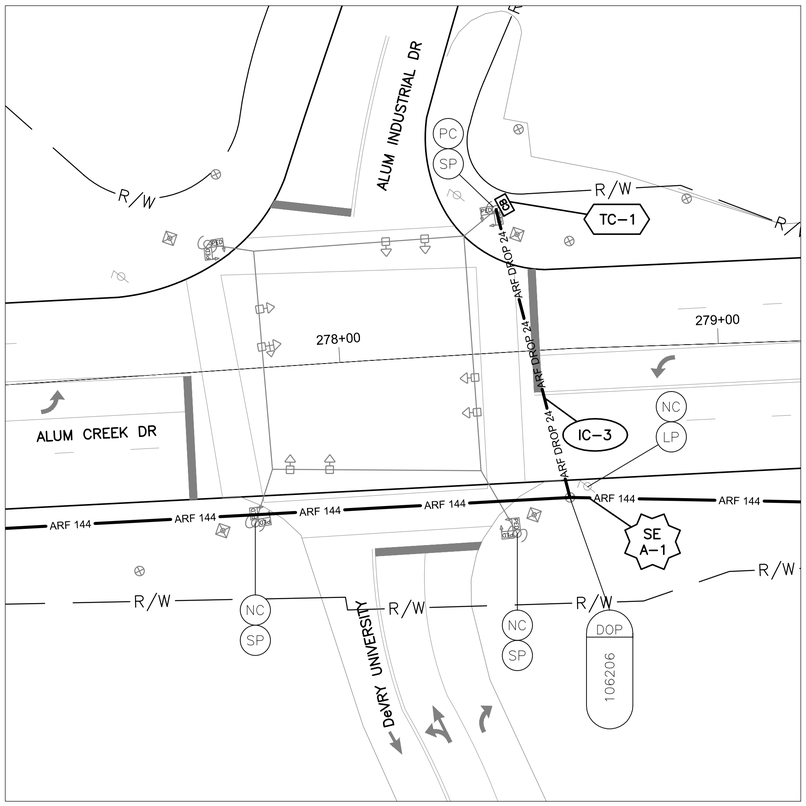
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

440
911

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ALUM CREEK DR BETWEEN STATION 275+00 AND 286+00



DETAIL - INT 2195

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 444 FOR QUANTITIES.
2. SEE SHEETS 612 & 822 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 270 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

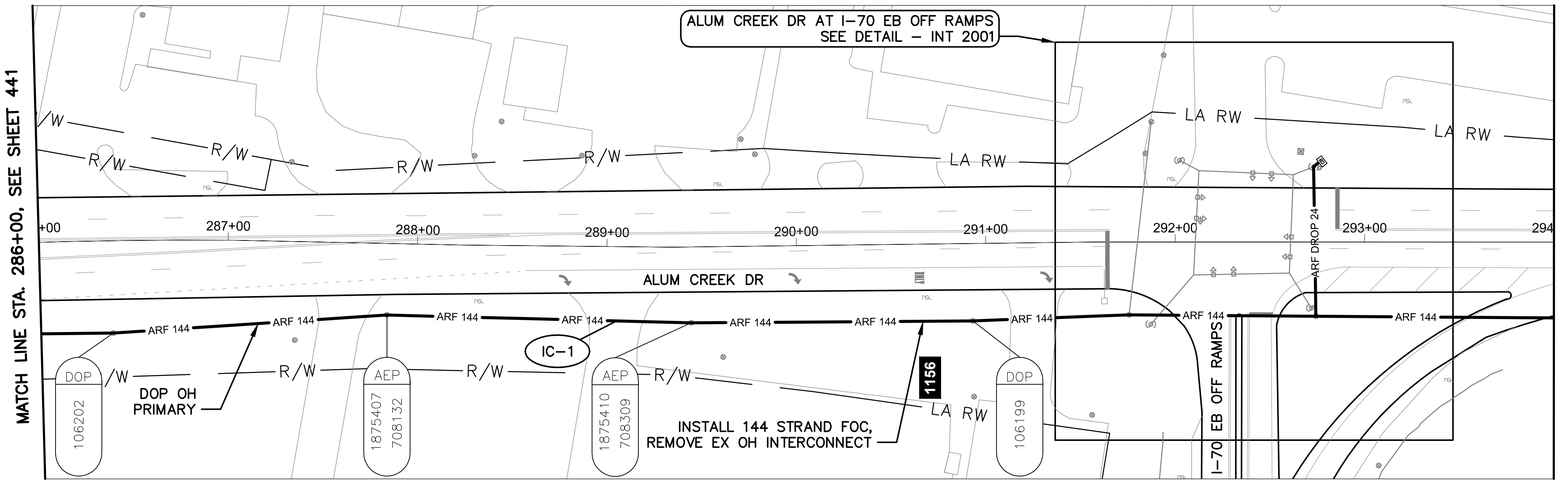
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PID NUMBER: 14522

INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 275+00 AND 286+00, INT 2195

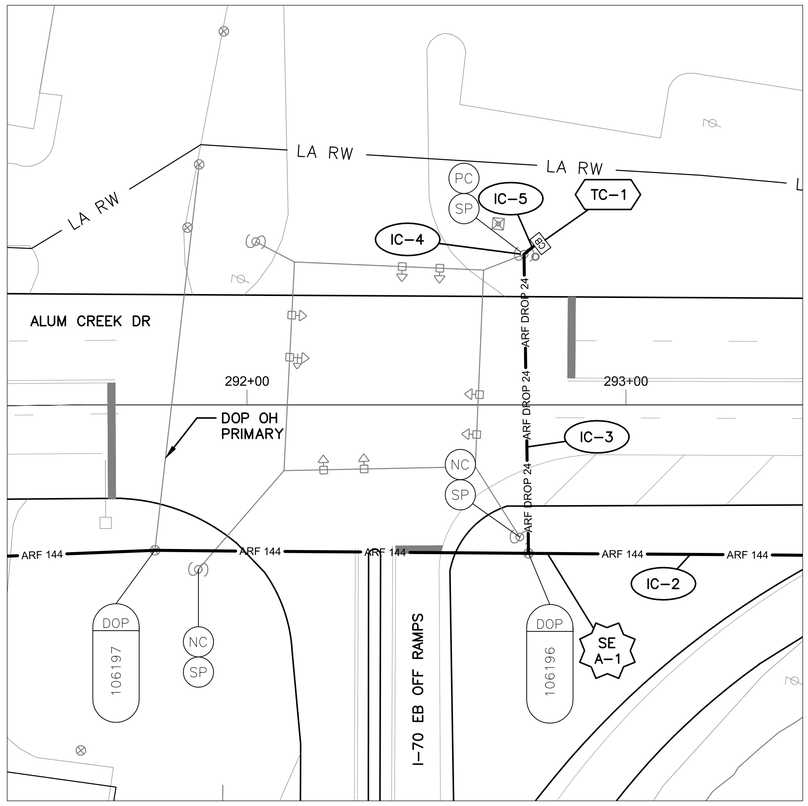
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

441
911

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ALUM CREEK DR BETWEEN STATION 286+00 AND 294+00



DETAIL - INT 2001

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 444 FOR QUANTITIES.
2. SEE SHEETS 612 & 823 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

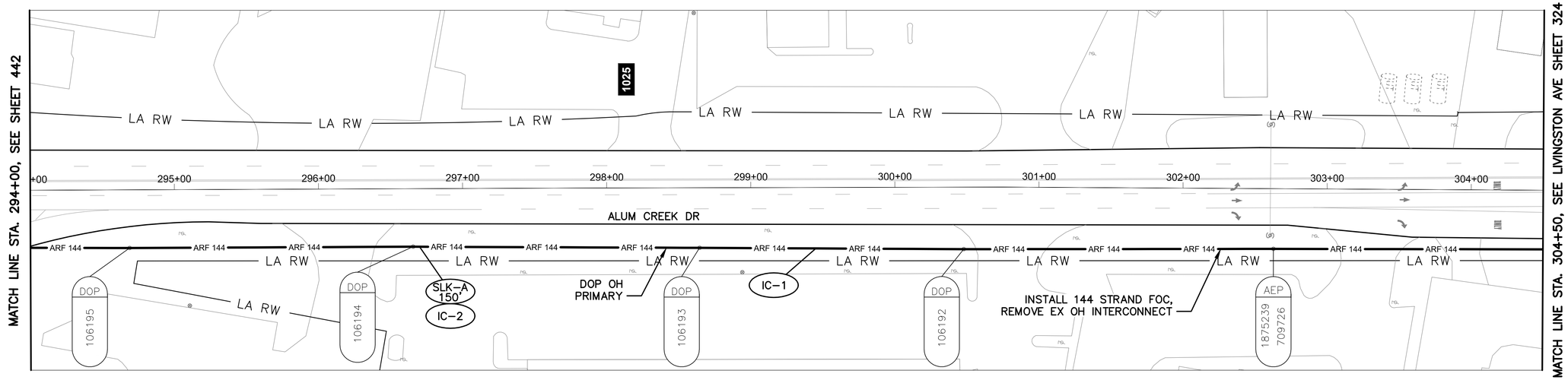
INTERCONNECT PLAN
ALUM CREEK DR BETWEEN STA. 286+00 AND 294+00, INT 2001

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

442
911

2953-E

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ALUM CREEK DR BETWEEN STATION 294+00 AND 304+50

NOTES:

1. SEE SHEET 444 FOR QUANTITIES.
2. SEE SHEET 612 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 271 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
ALUM CREEK DR BETWEEN STA. 294+00 AND 304+50

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

443
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	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.: 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	FT	EACH	EACH	EACH	EACH									
ALUM CREEK DR. BETWEEN STA. 264+00 AND 275+00																								
440	IC-1	ALUM CREEK DR	264+00, 49' RT	275+00, 33' RT		1133	1116				1133													
440	IC-2	ALUM CREEK DR	264+40, 50' RT			250																		
440	IC-3	ALUM CREEK DR	267+64, 39' RT			150																		
ALUM CREEK DR. BETWEEN STA. 275+00 AND 286+00, INT 2195																								
441	IC-1	ALUM CREEK DR	275+00, 33' RT	278+58, 39' RT		363	358				363													
441	TC-1	ALUM CREEK DR	278+43, 38' LT									2	1		1									
441	IC-3	ALUM CREEK DR	278+43, 38' LT	278+58, 39' RT			78			1	79													
441	SE A-1	ALUM CREEK DR	278+58, 39' RT			150			1															
441	IC-2	ALUM CREEK DR	278+58, 39' RT	286+00, 48' RT		742	731				742													
ALUM CREEK DR. BETWEEN STA. 286+00 AND 294+00, INT 2001																								
442	IC-1	ALUM CREEK DR	286+00,45' RT	292+74, 39' RT		683	673				683													
442	IC-5	ALUM CREEK DR	292+73, 40' LT	292+77, 43' LT	6			6																
442	IC-3	ALUM CREEK DR	292+73, 40' LT	292+74, 39' RT			79				80													
442	IC-4	ALUM CREEK DR	292+74, 39' RT	292+77, 43' LT						1														
442	SE A-1	ALUM CREEK DR	292+74, 39' RT			150			1															
442	IC-2	ALUM CREEK DR	292+74, 39' RT	294+00, 40' RT		128	126				128													
442	TC-1	ALUM CREEK DR	292+77, 43' LT									2	1	1										
ALUM CREEK DR. BETWEEN STA. 294+00 AND 304+50																								
443	IC-1	ALUM CREEK DR	294+00, 40' RT	304+50, 41' RT		1066	1050				1066													
443	IC-2	ALUM CREEK DR	296+70, 40' RT			150																		
SHEET TOTAL					6	4965	4211	6	2	2	4274	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

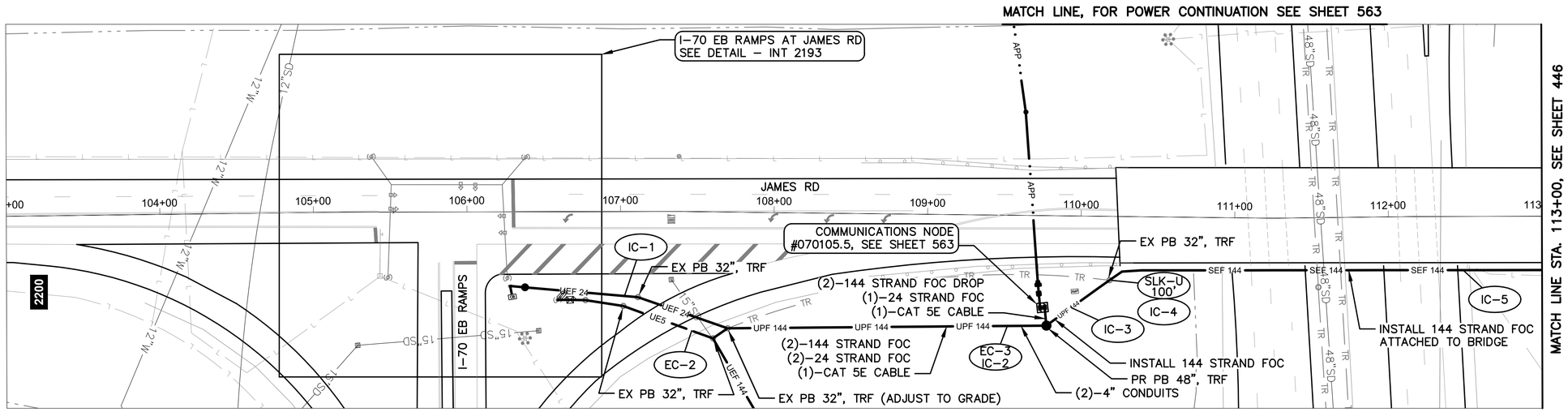
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PID NUMBER: 14522

ALUM CREEK DR. BTW STA. 264+00 & 304+50
INTS 2195, 2001

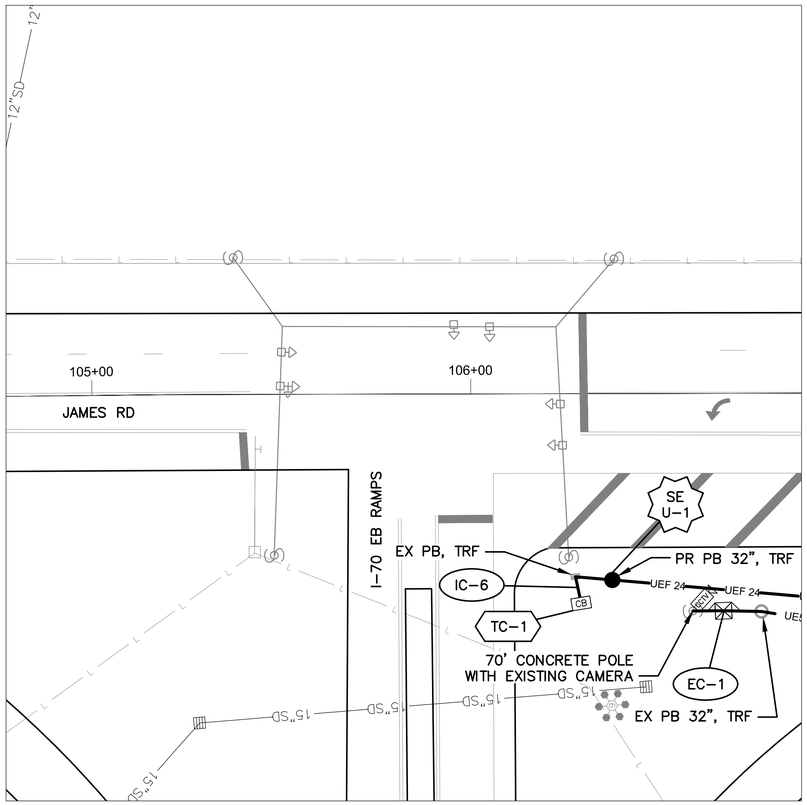
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

444
911

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JAMES RD BETWEEN STATION 103+00 AND 113+00



DETAIL - INT 2193

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEETS 613 & 799 FOR COMMUNICATION DETAILS.
3. SEE SHEET 38 FOR INTERCEPTING EXISTING CONDUIT DETAILS.
4. SEE SHEET 446 FOR CABLE SCHEMATIC.
5. SEE SHEET 292 FOR POWER SERVICE DETAILS.
6. 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

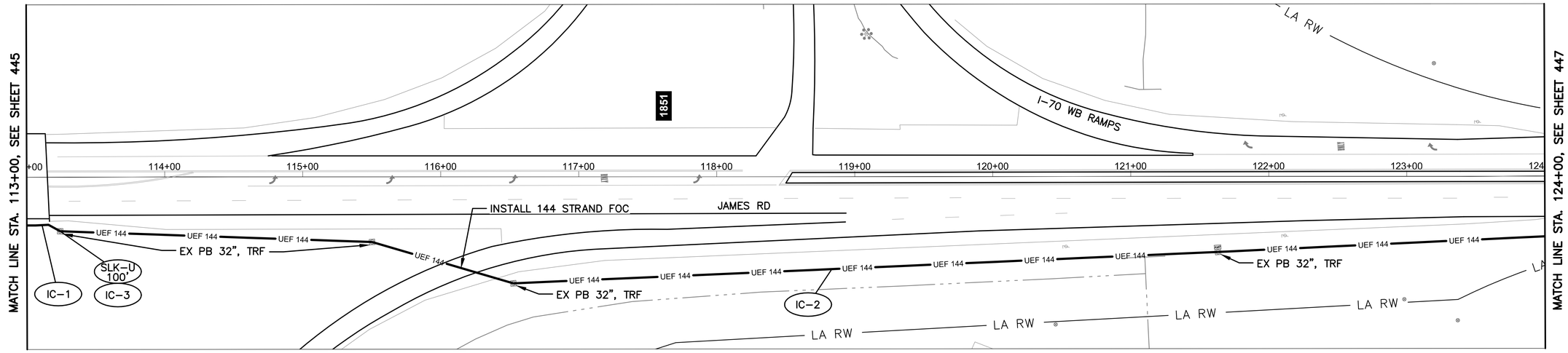
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PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 103+00 AND 113+00, INT 2193

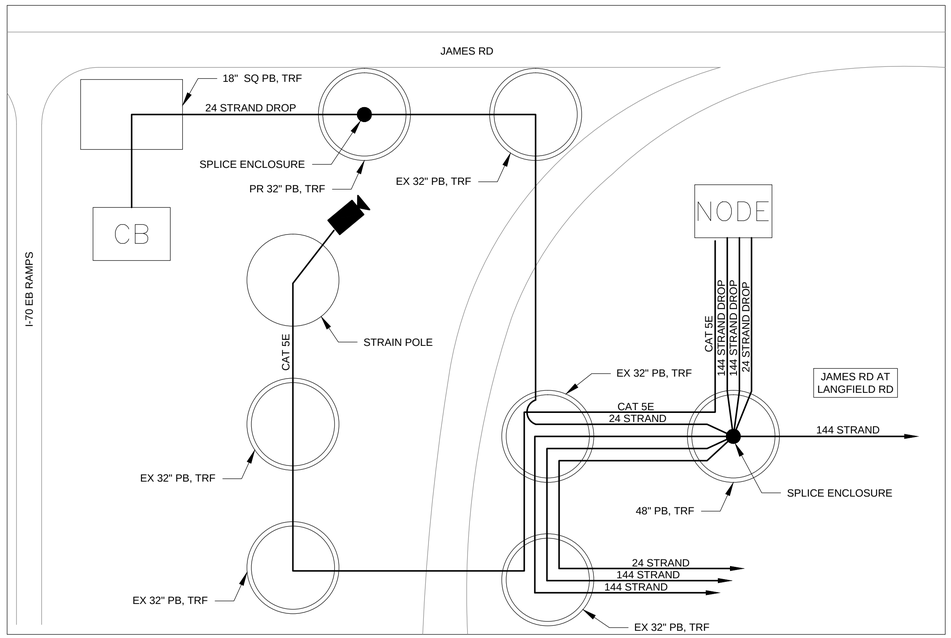
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

445
911

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JAMES RD BETWEEN STATION 113+00 AND 124+00



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEET 613 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

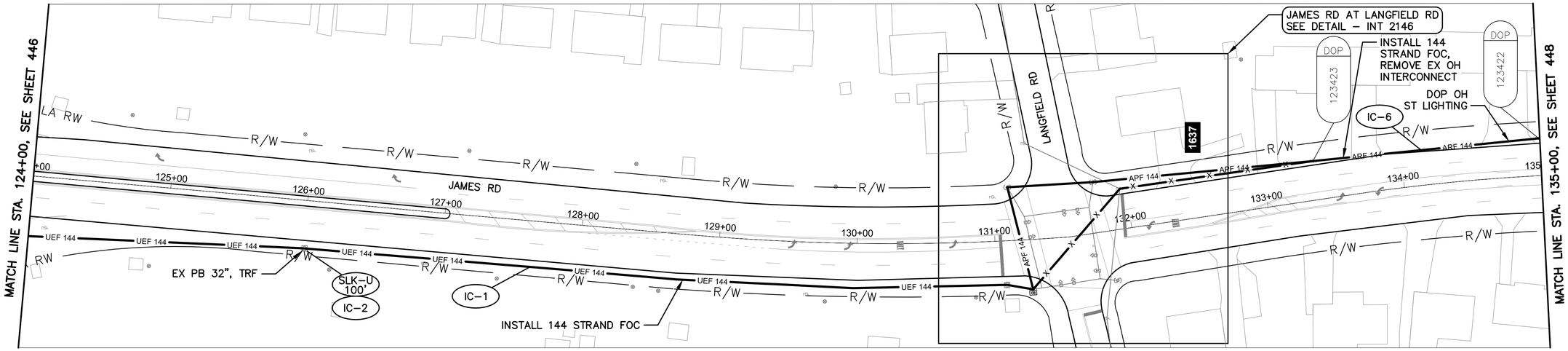
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PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 113+00 AND 124+00

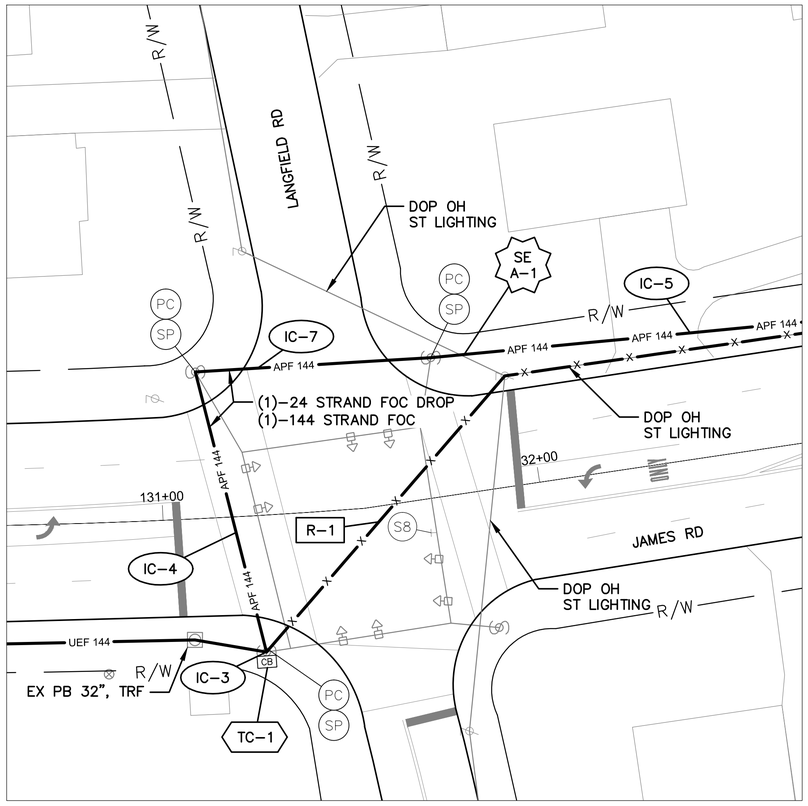
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

446
911

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JAMES RD BETWEEN STATION 124+00 AND 135+00



DETAIL - INT 2146

0 20 40
HORIZONTAL SCALE IN FEET

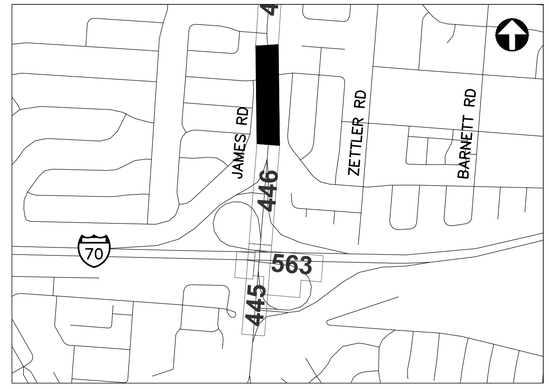
NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEETS 613 & 800 FOR COMMUNICATION DETAILS.
3. ON SW CORNER OF INT 2146, ATTACH ABOVE SIGNAL SPAN.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

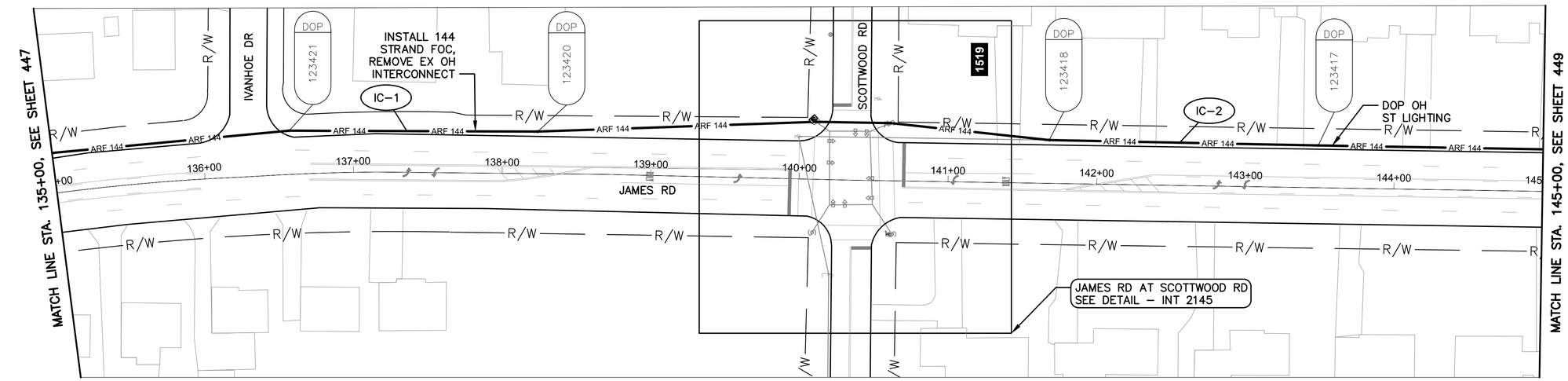
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 124+00 AND 135+00, INT 2146

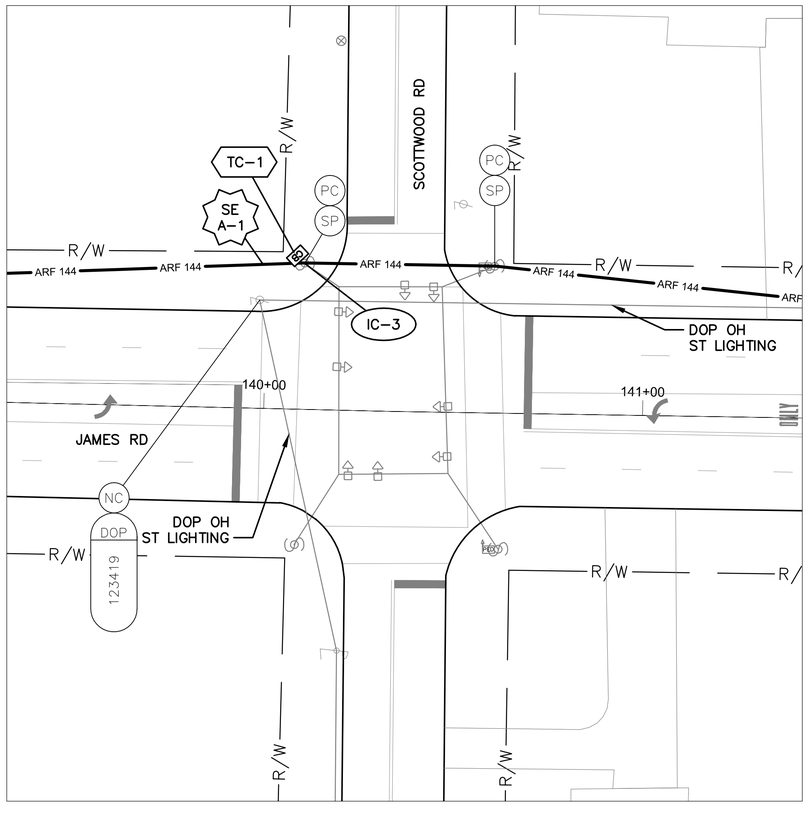
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

447
911

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JAMES RD BETWEEN STATION 135+00 AND 145+00

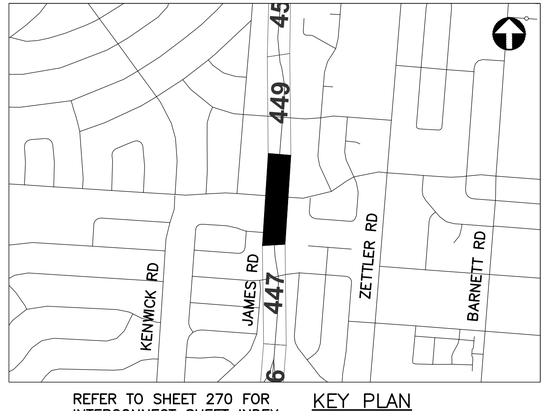


DETAIL - INT 2145

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEETS 613 & 801 FOR COMMUNICATION DETAILS.



REFER TO SHEET 270 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

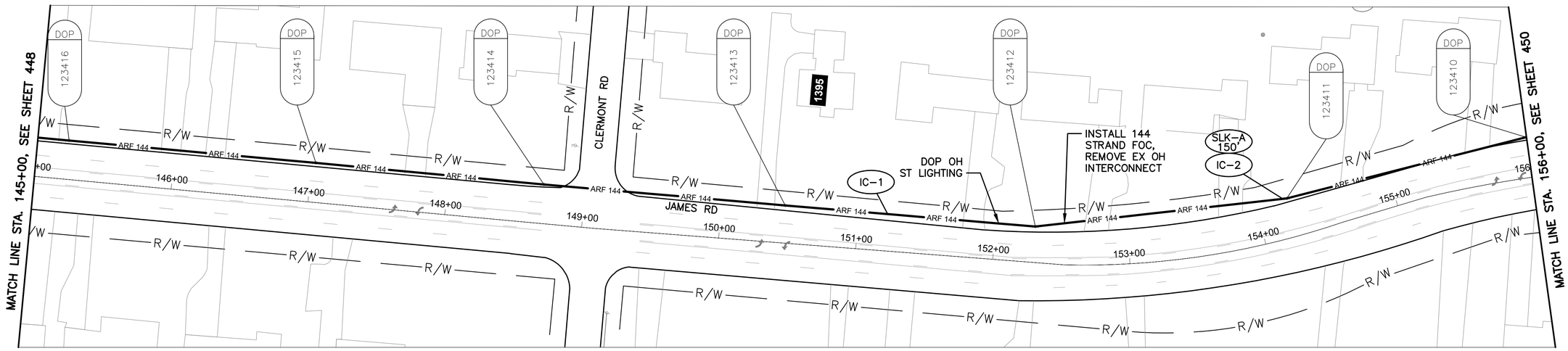
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PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 135+00 AND 145+00, INT 2145

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

448
911

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JAMES RD BETWEEN STATION 145+00 AND 156+00

NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEET 613 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

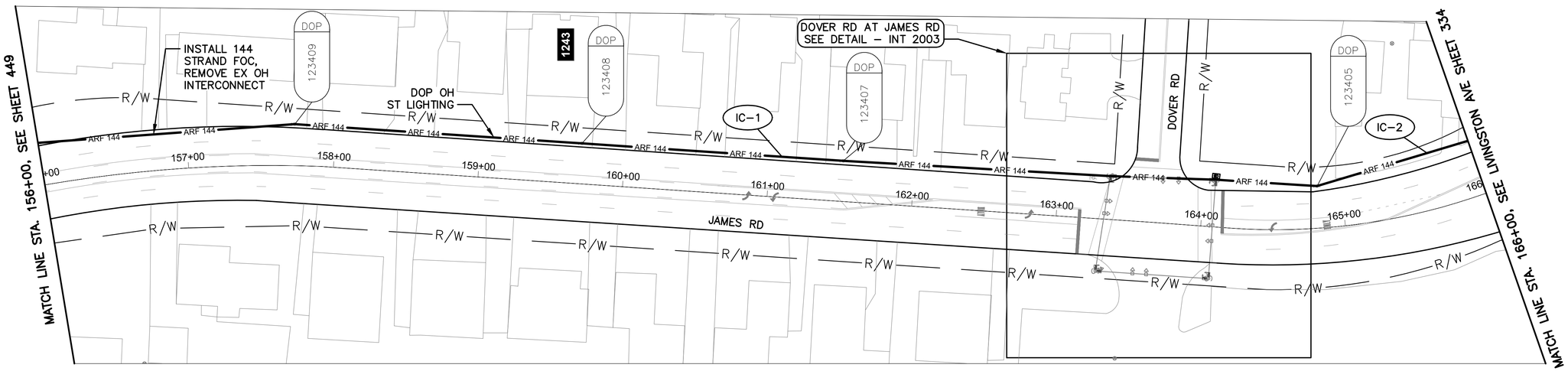
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 145+00 AND 156+00

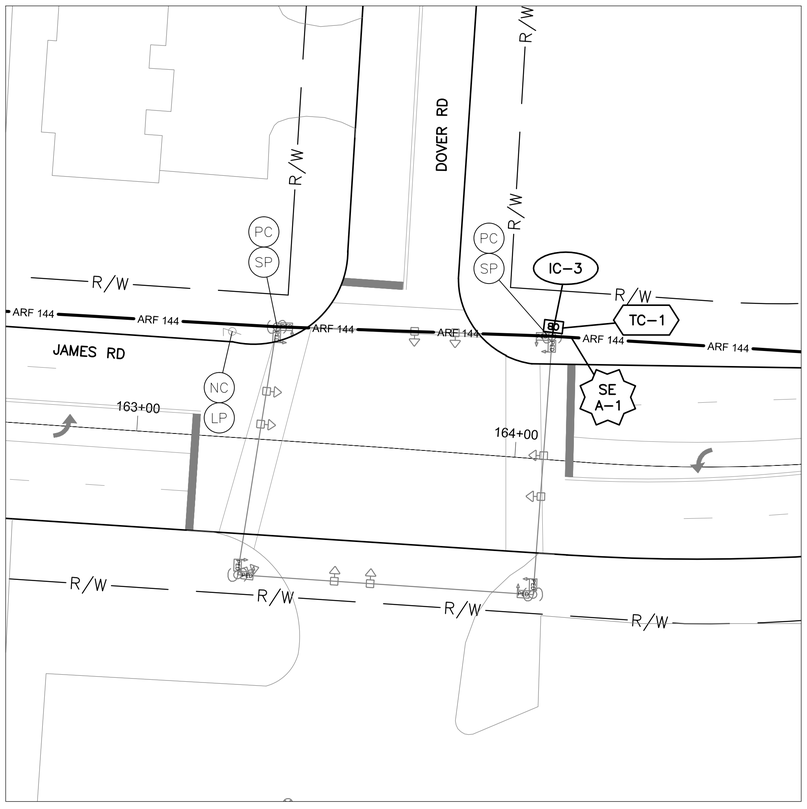
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

449
911

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JAMES RD BETWEEN STATION 156+00 AND 166+00



DETAIL - INT 2003

0 20 40
HORIZONTAL SCALE IN FEET

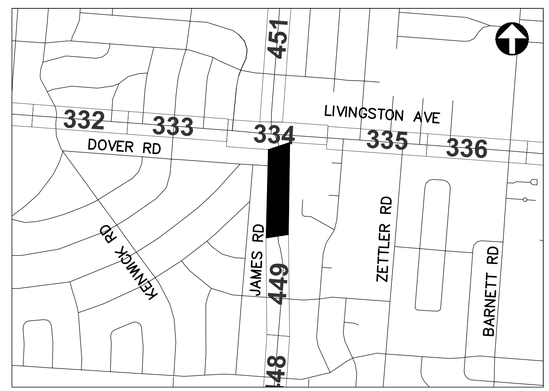
NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEETS 613 & 802 FOR COMMUNICATION DETAILS.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

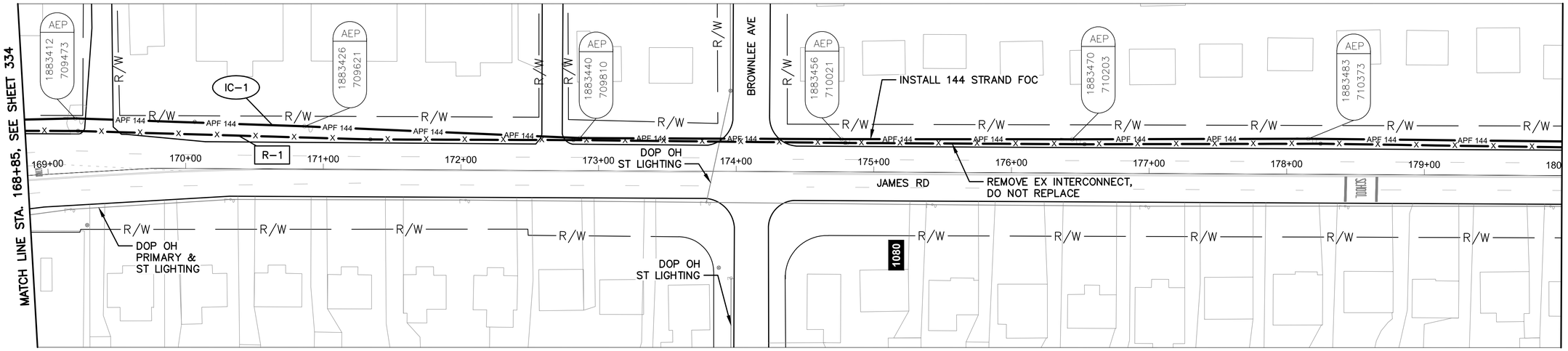
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INTERCONNECT PLAN
JAMES RD BETWEEN STA. 156+00 AND 166+00, INT 2003

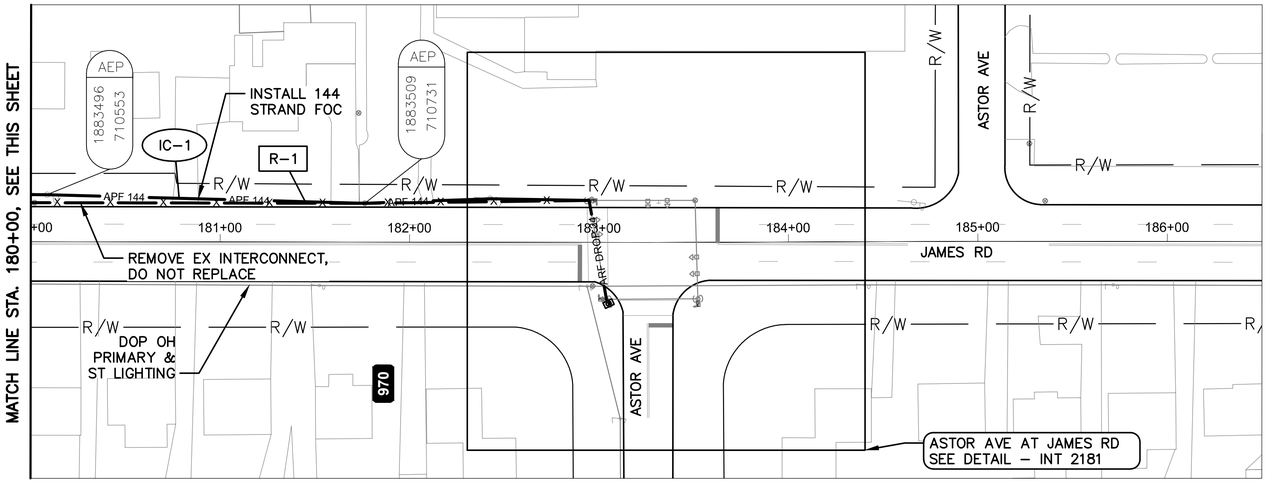
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

450
911

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JAMES RD BETWEEN STATION 168+85 AND 180+00



JAMES RD BETWEEN STATION 180+00 AND 186+50

DETAIL - INT 2181

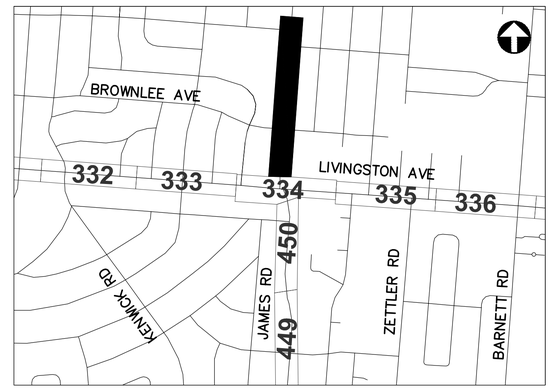
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEET 452 FOR QUANTITIES.
2. SEE SHEETS 613 & 803 FOR COMMUNICATION DETAILS.
3. STEEL POLES IN EXISTING HOLES, OTHERWISE DRILL.

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☒ POWER
- ☒ LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
JAMES RD BETWEEN STA. 168+85 AND 186+50, INT 2181

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

451
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 CONDUIT, 4", AS PER PLAN FT	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN FT	625 PULL BOX, 32", AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	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, 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/ 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.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH		
JAMES RD. BETWEEN STA. 103+00 AND 113+00, INT 2193																										
445	TC-1	JAMES RD	106+29, 55' RT																	1	1	1				
445	IC-6	JAMES RD	106+29, 55' RT	106+37, 49' RT	17											1										
445	SE U-1	JAMES RD	106+37, 49' RT					1			75		1													
445	IC-1	JAMES RD	106+37, 49' RT	107+70, 76' RT	136						136															
445	EC-2	JAMES RD	106+58, 57' RT	107+70, 76' RT	117														117							
445	EC-1	JAMES RD	106+66, 57' RT																10							
445	IC-2	JAMES RD	107+70, 76' RT	109+77, 72' RT		416			208	416	416															
445	EC-3	JAMES RD	107+70, 76' RT	109+77, 72' RT															208							
445	IC-3	JAMES RD	109+77, 72' RT	110+18, 42' RT			51		51	51																
445	IC-4	JAMES RD	110+18, 42' RT							100																
445	IC-5	JAMES RD	110+18, 42' RT	113+00, 32' RT	284					284																
JAMES RD. BETWEEN STA. 113+00 AND 124+00																										
446	IC-1	JAMES RD	113+00, 32' RT	113+23, 39' RT	26					26																
446	IC-2	JAMES RD	113+23, 39' RT	124+00, 44' RT	1081					1081																
446	IC-3	JAMES RD	113+23, 39' RT							100																
JAMES RD. BETWEEN STA. 124+00 AND 135+00, INT 2146																										
447	IC-1	JAMES RD	124+00 44' RT	131+25, 36' RT	731					731																
447	IC-2	JAMES RD	125+98, 35' RT							100																
447	IC-3	JAMES RD	131+25, 36' RT							35																
447	IC-7	JAMES RD	131+25, 36' RT	131+76, 37' LT													1									
447	IC-4	JAMES RD	131+25, 36' RT	131+76, 37' LT						140									140							
447	IC-5	JAMES RD	131+76, 37' LT	133+36, 28' LT						163									163							
447	R-1	JAMES RD	131+25, 36' RT	133+36, 28' LT								238														
447	TC-1	JAMES RD	131+25, 36' RT																	2	1	1				
447	SE A-1	JAMES RD	131+76, 37' LT							150				1												
447	IC-6	JAMES RD	133+36, 28' LT	135+00, 27' LT						167		165							167							
JAMES RD. BETWEEN STA. 135+00 AND 145+00, INT 2145																										
448	IC-1	JAMES RD	135+00, 27' LT	140+09, 39' LT						526		518							526							
448	SE A-1	JAMES RD	140+09, 39' LT							150				1												
448	IC-3	JAMES RD	140+09, 39' LT	140+09, 39' LT												1										
448	TC-1	JAMES RD	140+09, 39' LT																	2	1		1			
448	IC-2	JAMES RD	140+09, 39' LT	145+00, 28' LT						497		490							497							
JAMES RD. BETWEEN STA. 145+00 AND 156+00																										
449	IC-1	JAMES RD	145+00, 28' LT	156+00, 29' LT						1109		1093							1109							
449	IC-2	JAMES RD	154+20, 29' LT							150																
JAMES RD. BETWEEN STA. 156+00 AND 166+00, INT 2003																										
450	IC-1	JAMES RD	156+00, 29' LT	164+07, 33' LT						827		815							827							
450	SE A-1	JAMES RD	164+07, 33' LT							150				1												
450	IC-3	JAMES RD	164+07, 33' LT	164+07, 33' LT												1										
450	TC-1	JAMES RD	164+07, 33' LT																	2	1		1			
450	IC-2	JAMES RD	164+07, 33' LT	166+00, 38' LT						182		179							182							
JAMES RD. BETWEEN STA. 168+85 AND 186+50, INT 2181																										
451	R-1	JAMES RD	168+85, 32' LT	182+94, 22' LT								1412														
451	IC-1	JAMES RD	168+85, 41' LT	182+94, 22' LT						1433									1433							
451	SE A-1	JAMES RD	182+94, 22' LT							75				1												
451	IC-2	JAMES RD	182+94, 22' LT	183+03, 30' RT													1		53							
451	TC-1	JAMES RD	183+03, 30' RT																	2	1		1			
SHEET TOTAL					2392	416	51	1	259	8643	627	4910	1	4	3	2	5097	335	9	5	2	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

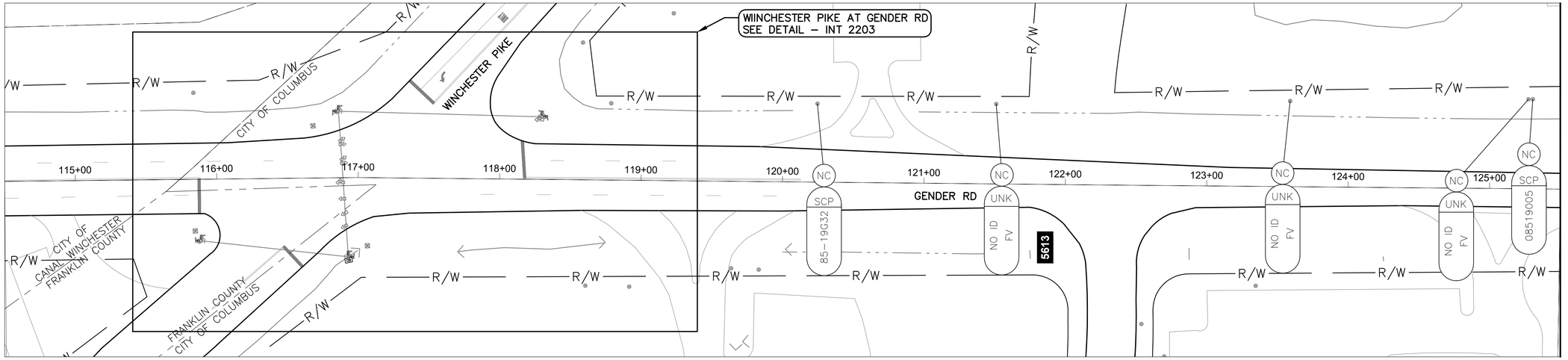
CIP: 540007–100005
PID NUMBER: 14522

JAMES RD. BTW STA. 103+00 & 186+50
INTS 2193, 2146, 2145, 2003, 2181

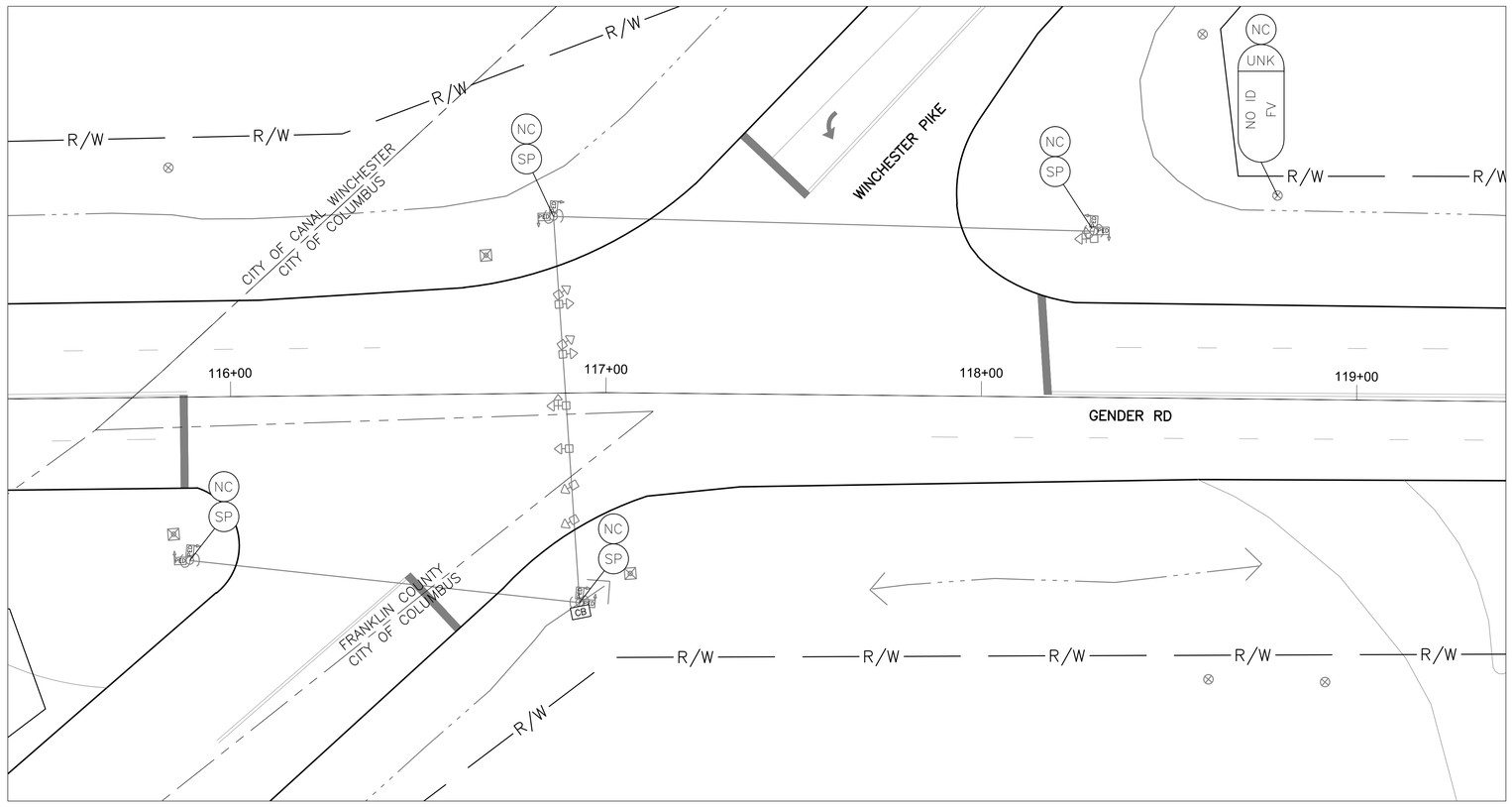
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

452
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_Phc_JAMES_INTERCONNECT_QUANTITIES.dwg – JAMES layout ~ last saved by: gburch 10/22/2014 12:01pm ~ printed 05/08/2017 10:51pm



GENDER RD BETWEEN STATION 114+50 AND 125+50



DETAIL - INT 2203

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

UNDERGROUND UTILITIES

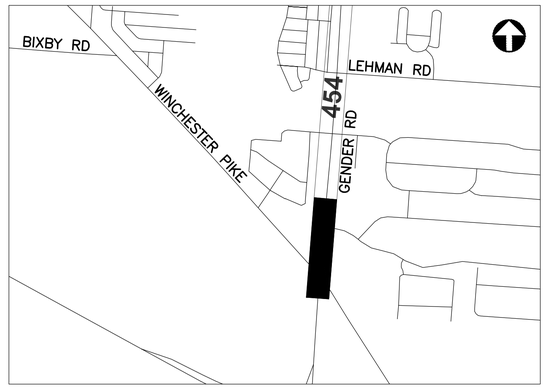
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80

HORIZONTAL
SCALE IN FEET

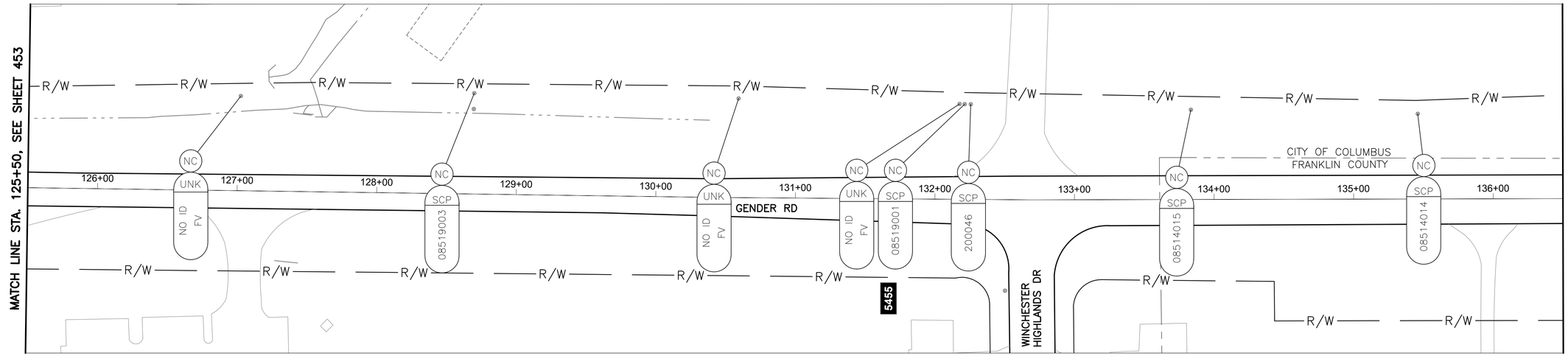
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PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 114+50 AND 125+50, INT 2203

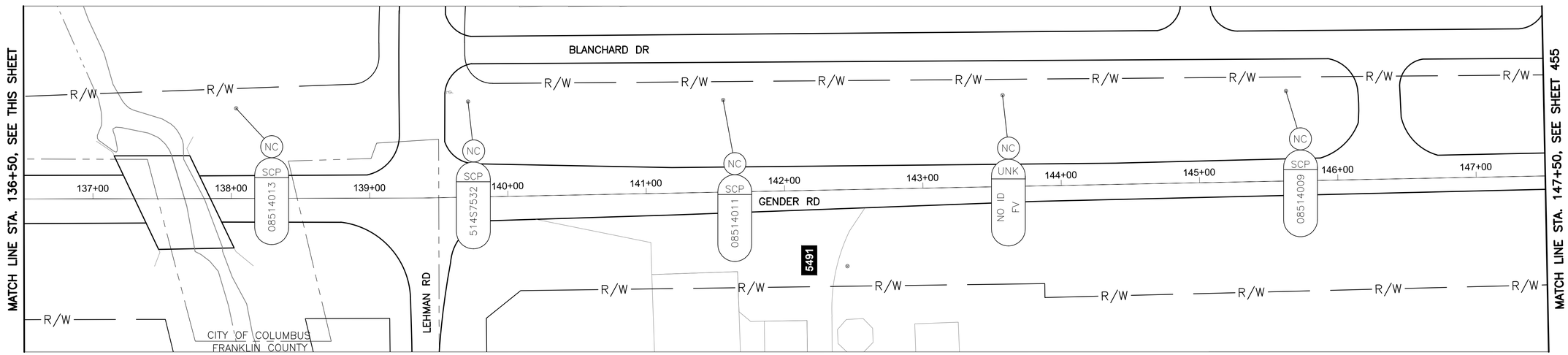
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

453
911

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GENDER RD BETWEEN STATION 125+50 AND 136+50



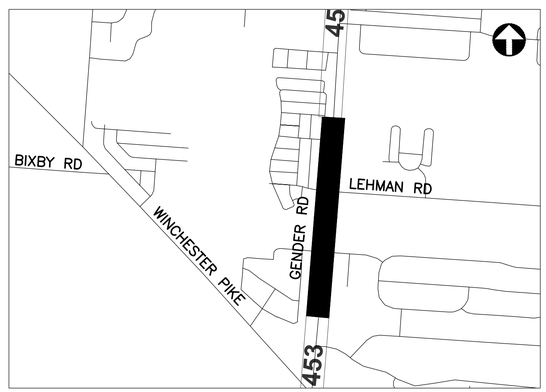
GENDER RD BETWEEN STATION 136+50 AND 147+50

NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

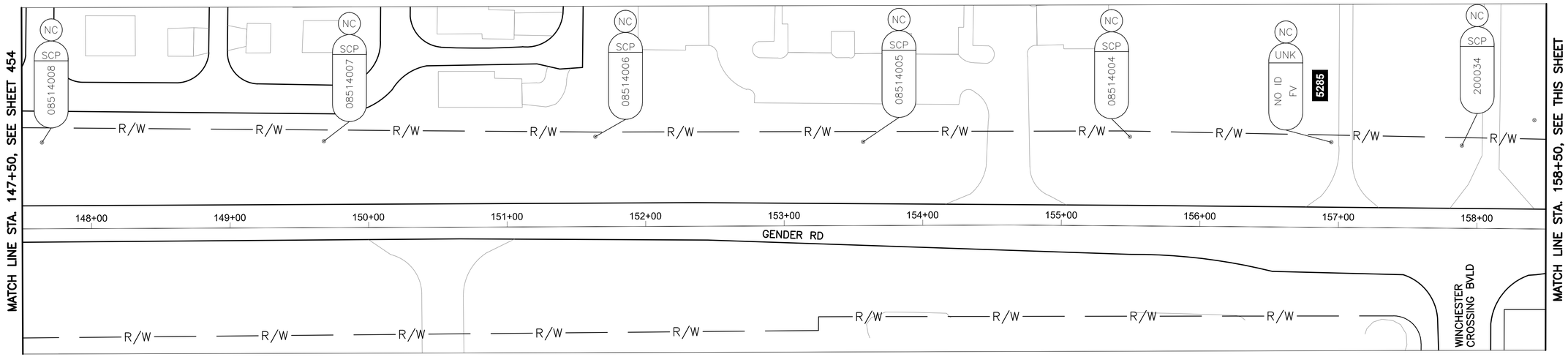
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INTERCONNECT PLAN
GENDER RD BETWEEN STA. 125+50 AND 147+50

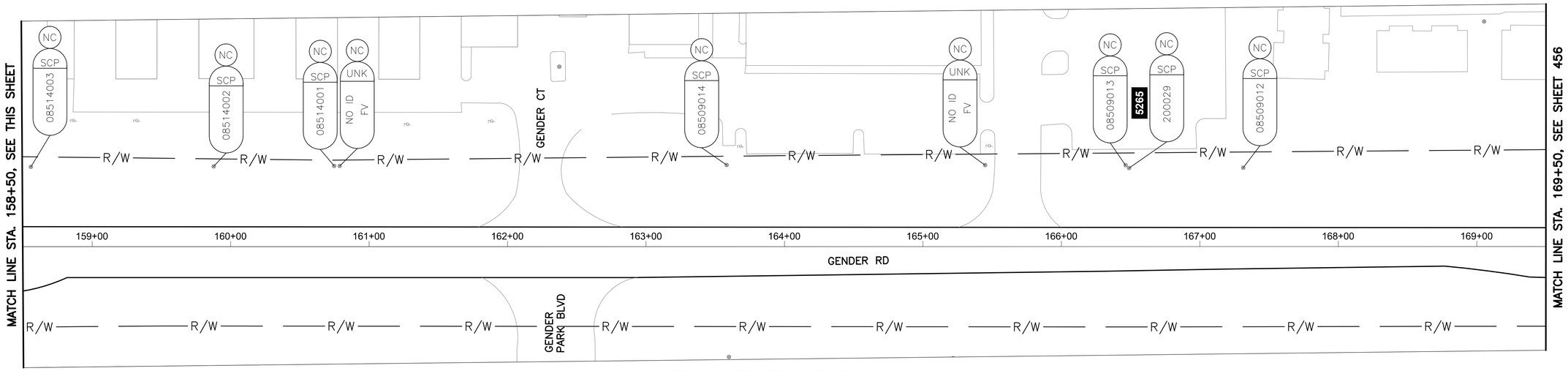
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

454
911

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GENDER RD BETWEEN STATION 147+50 AND 158+50



GENDER RD BETWEEN STATION 158+50 AND 169+50

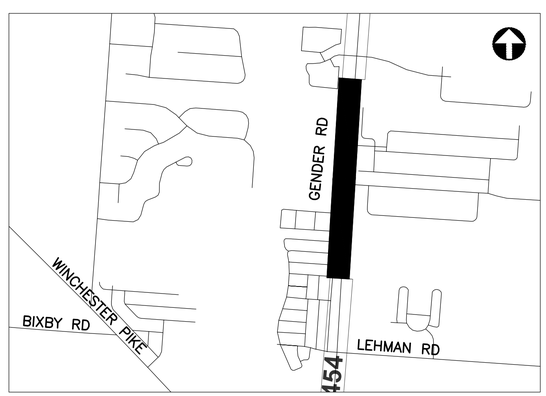
NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

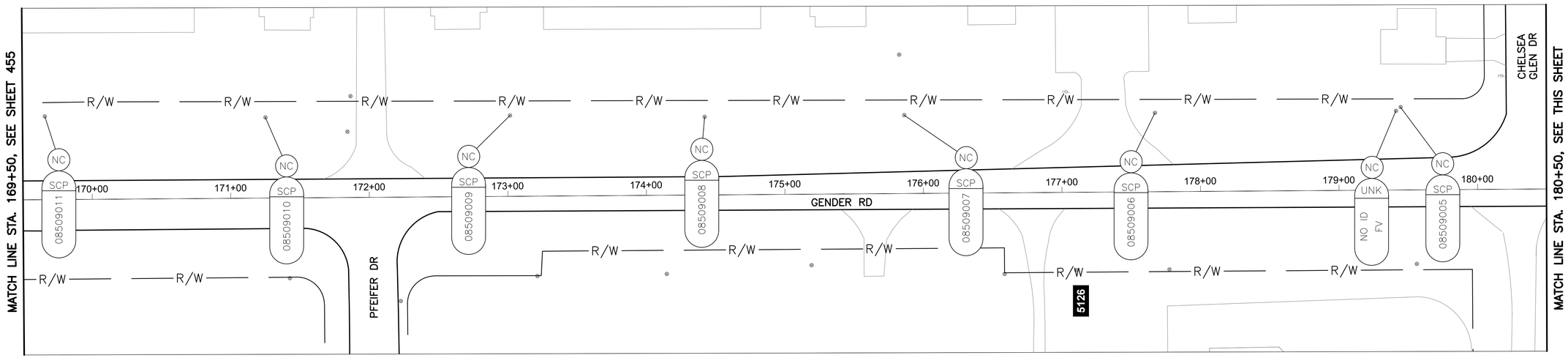
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PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 147+50 AND 169+50

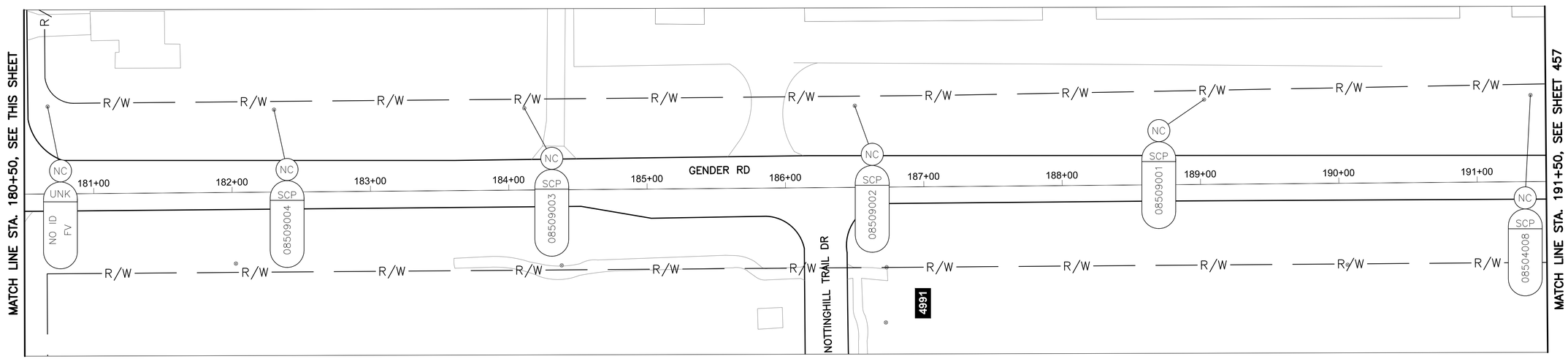
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

455
911

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GENDER RD BETWEEN STATION 169+50 AND 180+50



GENDER RD BETWEEN STATION 180+50 AND 191+50

NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

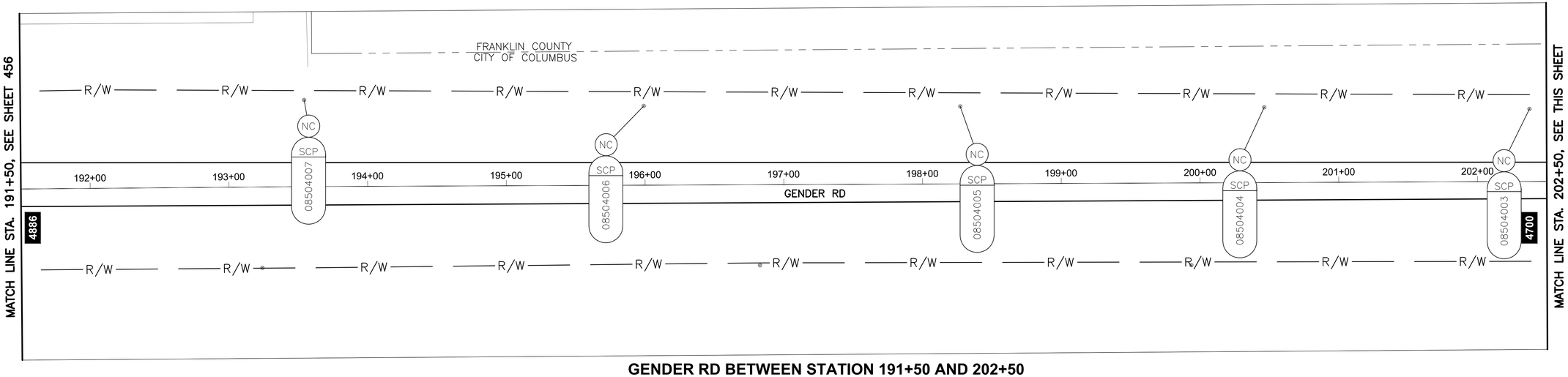
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PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 169+50 AND 191+50

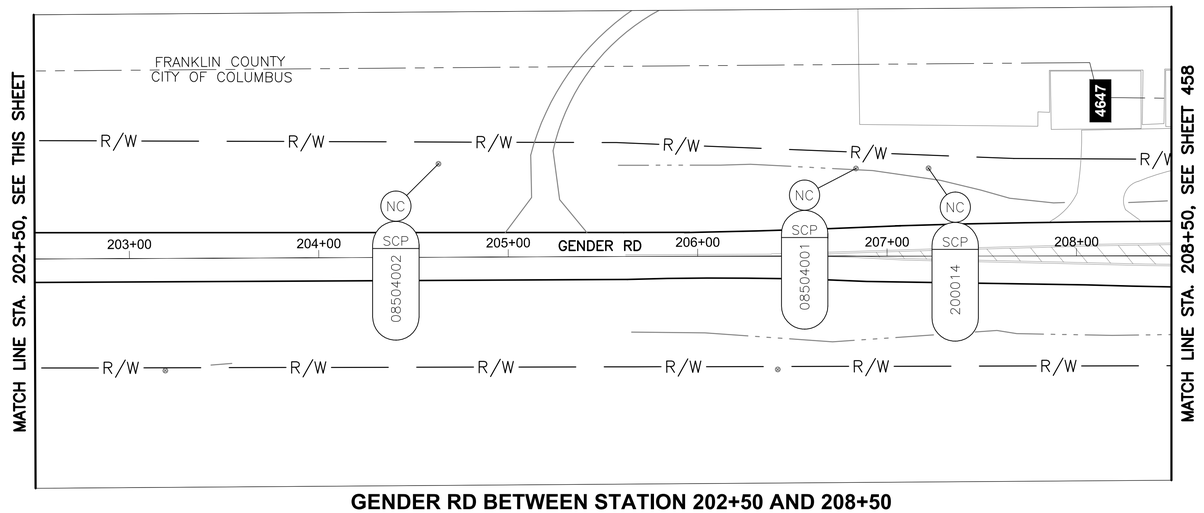
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

456
911

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GENDER RD BETWEEN STATION 191+50 AND 202+50



GENDER RD BETWEEN STATION 202+50 AND 208+50

NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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OHIO UTILITIES PROTECTION SERVICE

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

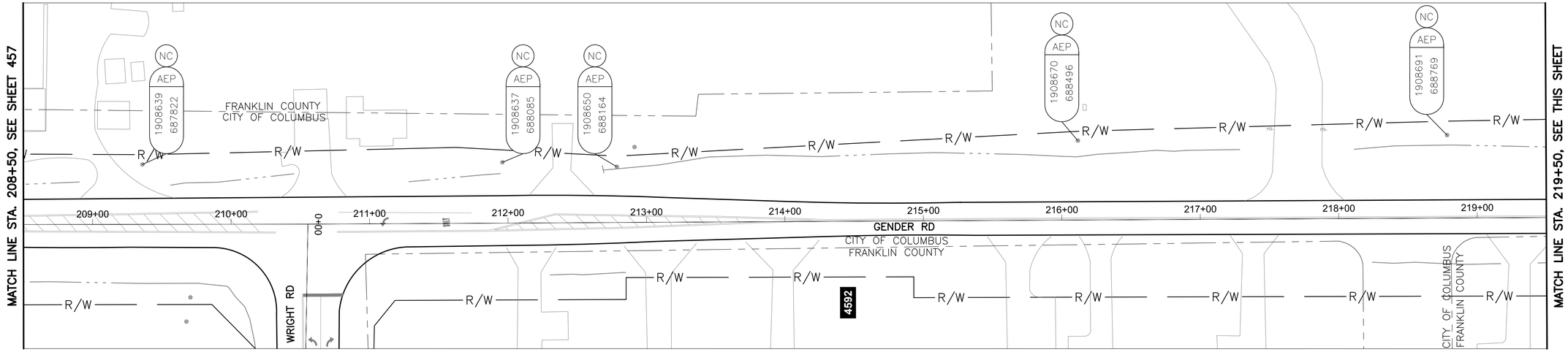
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PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 191+50 AND 208+50

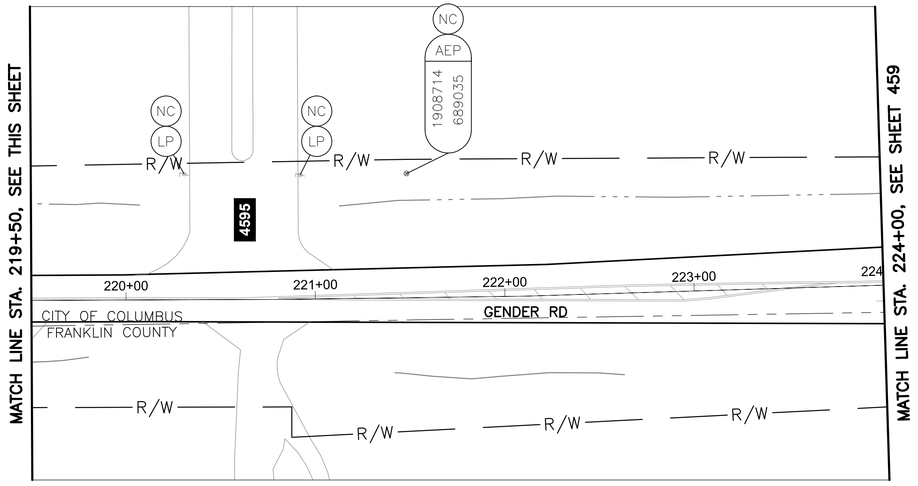
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

457
911

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GENDER RD BETWEEN STATION 208+50 AND 219+50



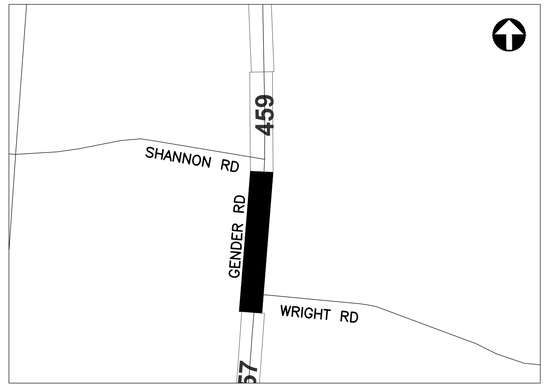
GENDER RD BETWEEN STATION 219+50 AND 224+00

NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

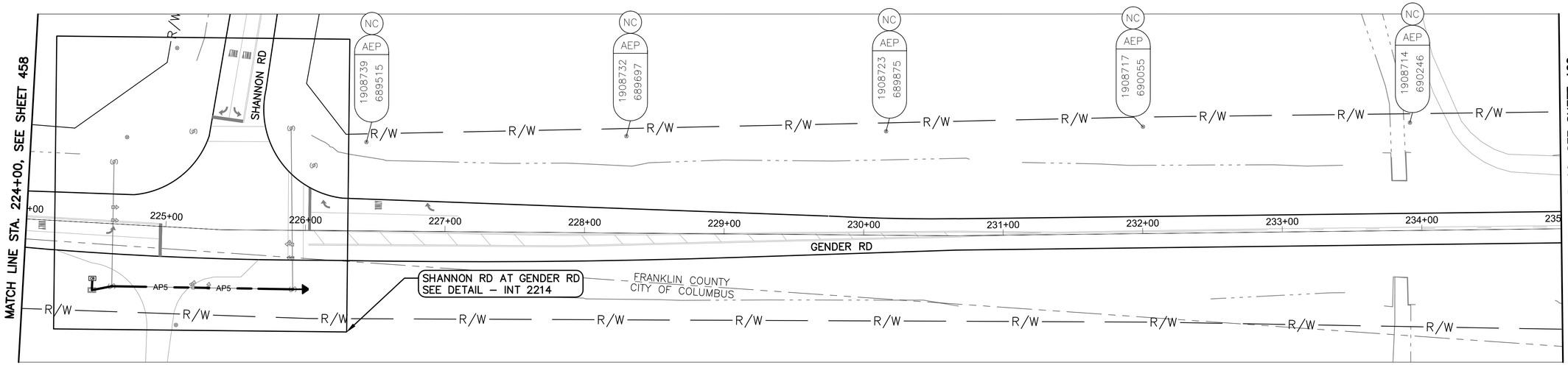
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PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 208+50 AND 224+00

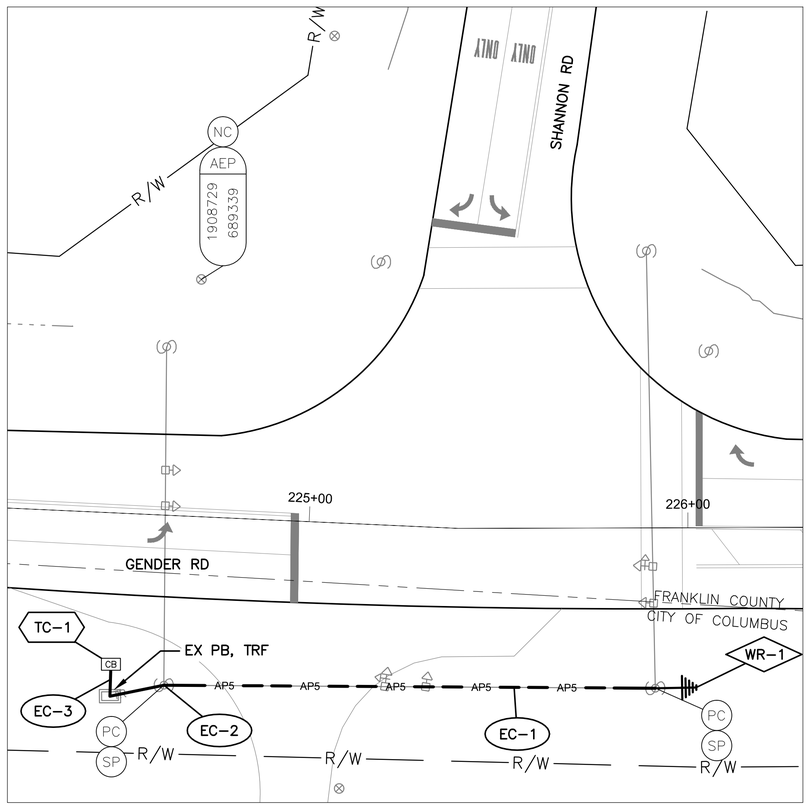
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

458
911

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GENDER RD BETWEEN STATION 224+00 AND 235+00



DETAIL - INT 2214

0 20 40
HORIZONTAL
SCALE IN FEET

INT 2214 WITH EXISTING SIGNAL CONTROLLER → PROPOSED WIRELESS SEE SHEET 461 INT. 2213 – GENDER ROAD AT ABBIE TRAILS DRIVE

NOTES:

1. SEE SHEET 463 FOR QUANTITIES.
2. SEE SHEETS 616 & 824 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

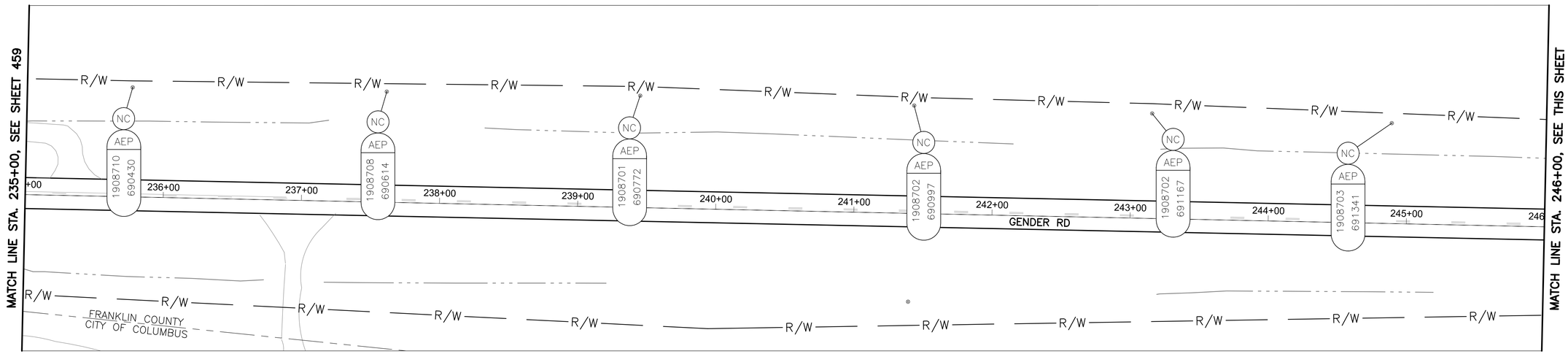
INTERCONNECT PLAN
GENDER RD BETWEEN STA. 224+00 AND 235+00, INT 2214

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

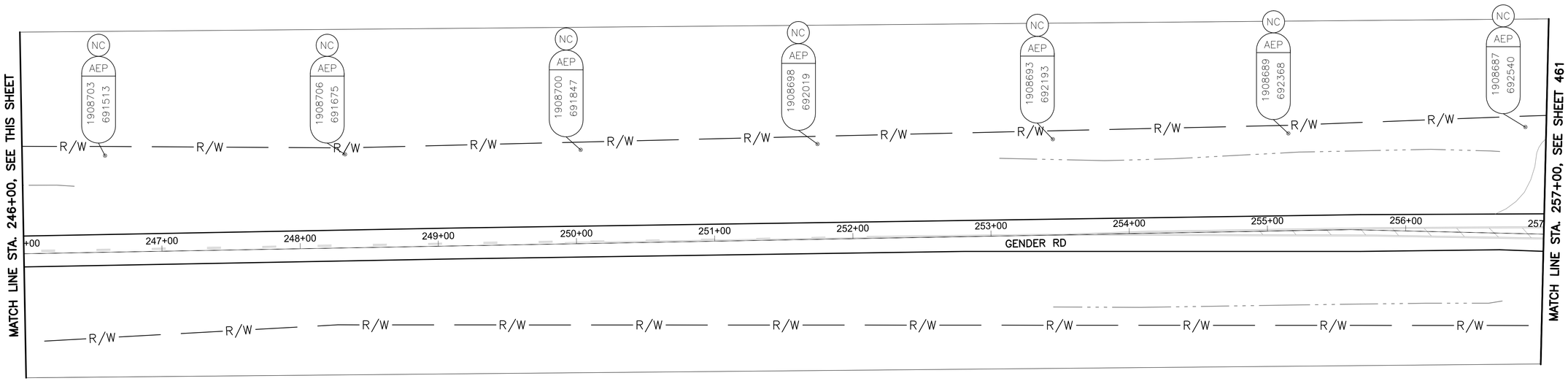
459
911

2953-E

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GENDER RD BETWEEN STATION 235+00 AND 246+00



GENDER RD BETWEEN STATION 246+00 AND 257+00

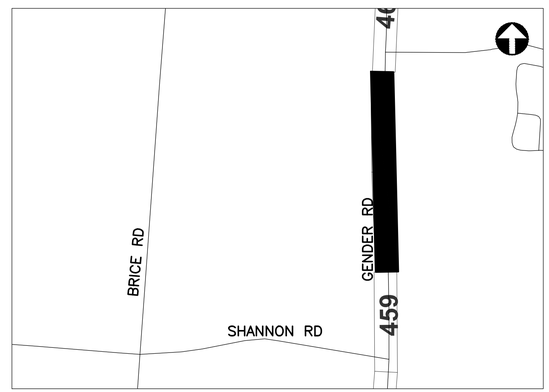
NOTES:

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0
40
80

CIP: 540007-100005
PID NUMBER: 14522

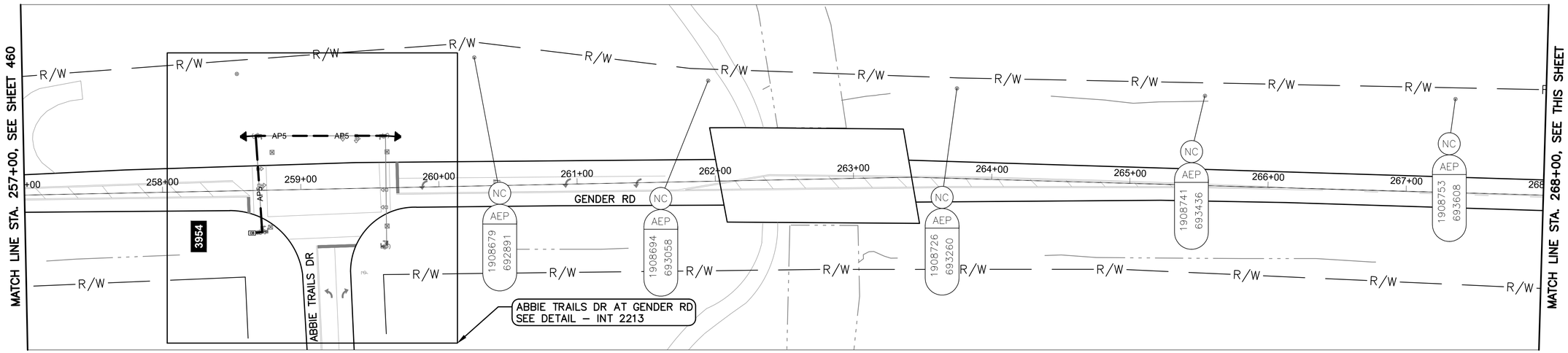
INTERCONNECT PLAN
GENDER RD BETWEEN STA. 235+00 AND 257+00

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

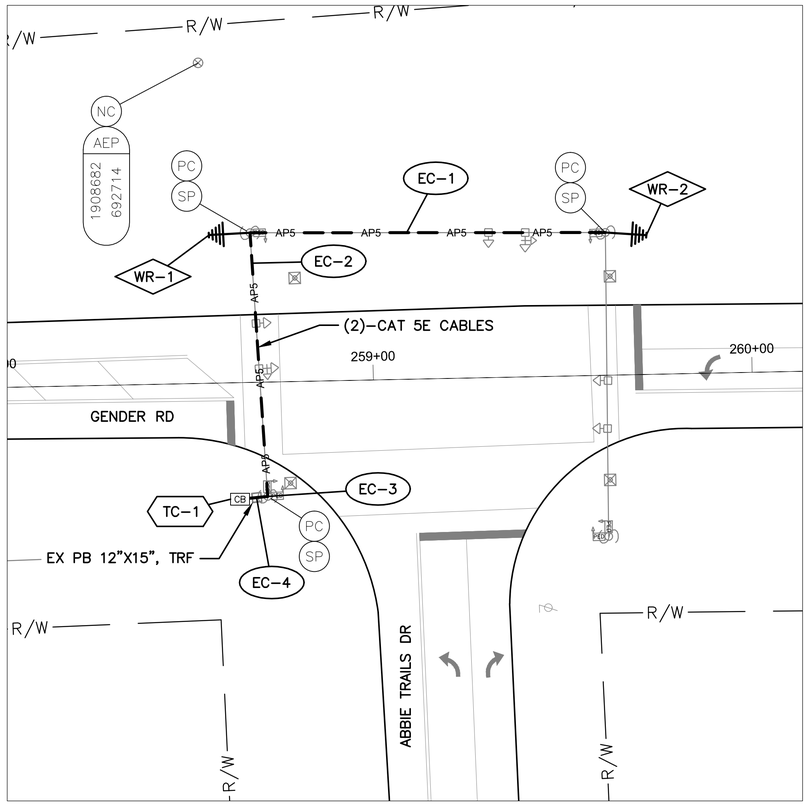
460
911

2953-E

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GENDER RD BETWEEN STATION 257+00 AND 268+00



DETAIL - INT 2213

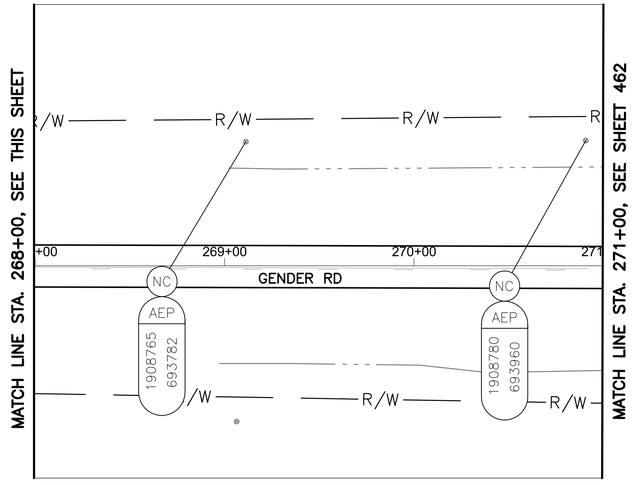
0 20 40

HORIZONTAL SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 459
INT. 2214 – GENDER
ROAD AT SHANNON ROAD

INT 2213 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 462
INT. 2208 – GENDER
ROAD AT UPPERRIDGE
DRIVE



GENDER RD BETWEEN STATION 268+00 AND 271+00

NOTES:

1. SEE SHEET 463 FOR QUANTITIES.
2. SEE SHEETS 616 & 825 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

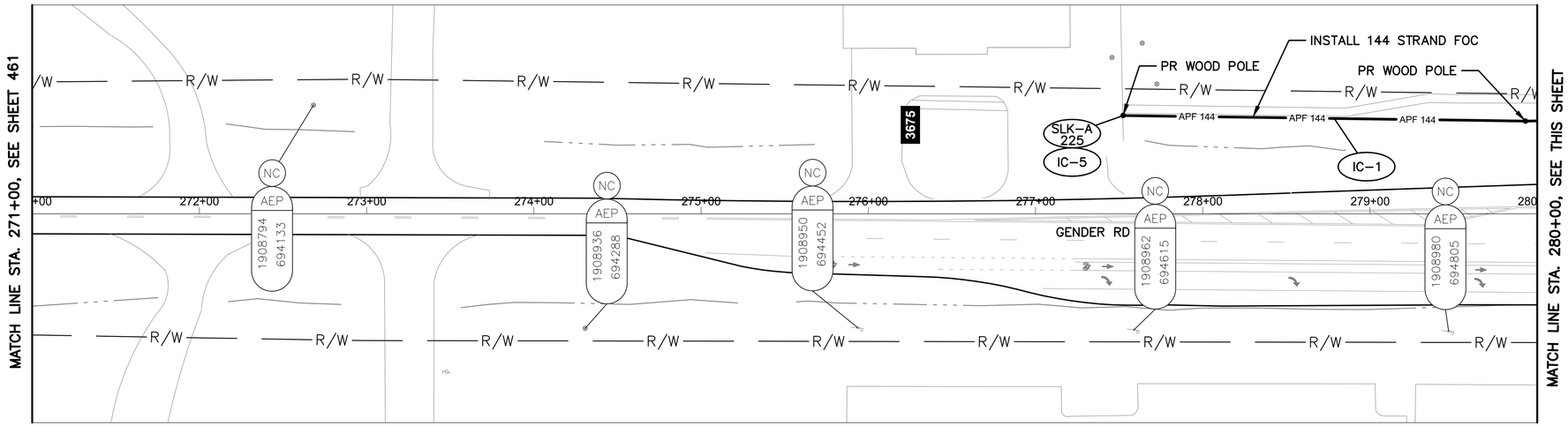
INTERCONNECT PLAN
GENDER RD BETWEEN STA. 257+00 AND 271+00, INT 2213

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

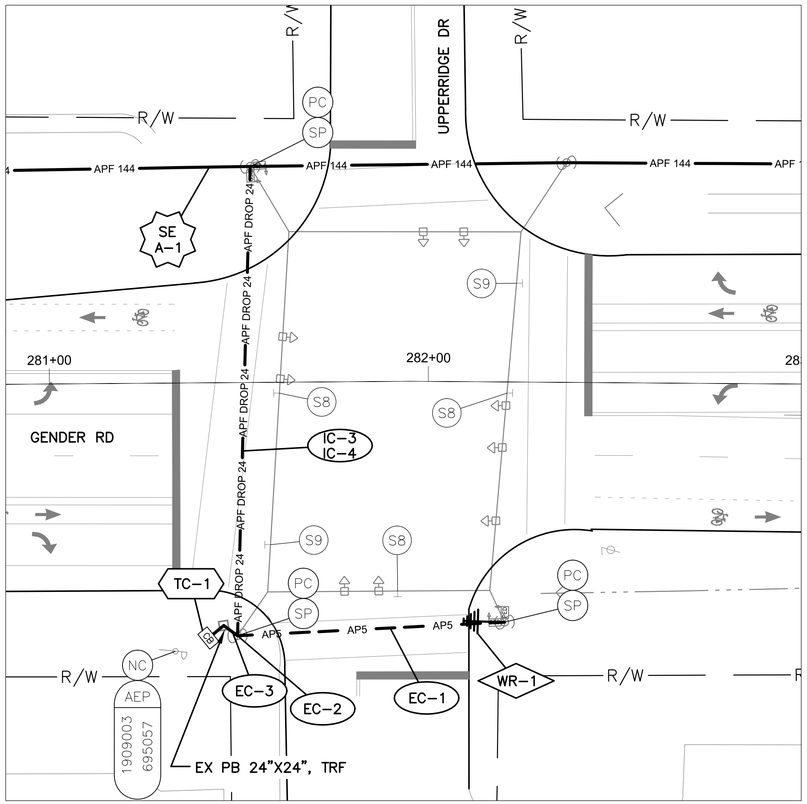
461
911

2953-E

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GENDER RD BETWEEN STATION 271+00 AND 280+00



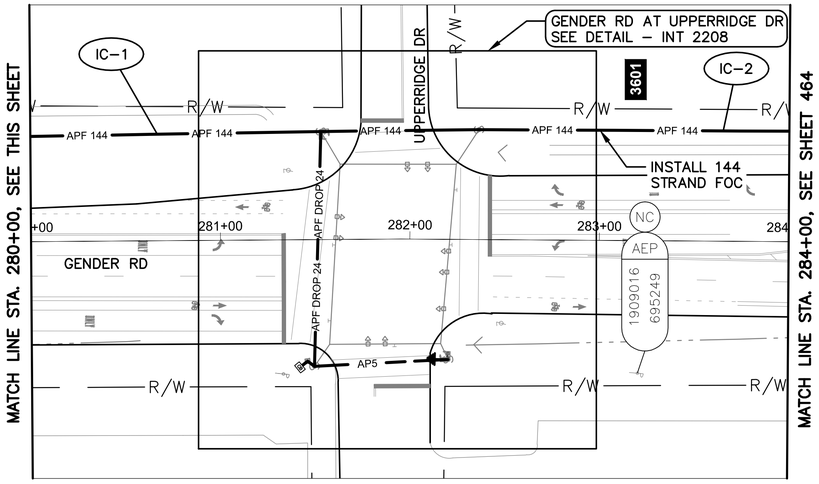
DETAIL - INT 2208

0 20 40

HORIZONTAL
SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 461
INT. 2213 – GENDER
ROAD AT ABBIE TRAILS
DRIVE

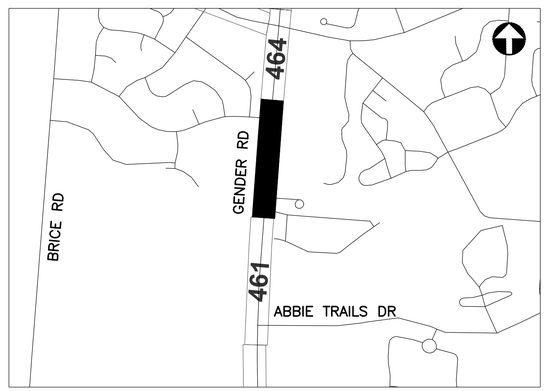
INT 2208 WITH
EXISTING SIGNAL
CONTROLLER



GENDER RD BETWEEN STATION 280+00 AND 284+00

NOTES:

1. SEE SHEET 463 FOR QUANTITIES.
2. SEE SHEETS 616 & 826 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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
GENDER RD BETWEEN STA. 271+00 AND 284+00, INT 2208

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

462
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, 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.: CAT 5E CABLE, OUTDOOR RATED (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 ITEM, MISC.: SPREAD SPECTRUM RADIO (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)
GENDER RD. BETWEEN STA. 224+00 AND 235+00, INT 2214																
459	TC-1	GENDER RD	224+49, 40' RT							10			1			1
459	EC-3	GENDER RD	224+49, 40' RT	224+63, 45' RT	23					23						
459	EC-1	GENDER RD	224+63, 45' LT	226+05, 47' LT					223	223						
459	EC-2	GENDER RD	224+63, 45' RT							35						
459	WR-1	GENDER RD	226+05, 47' LT											1		
GENDER RD. BETWEEN STA. 257+00 AND 271+00, INT 2213																
461	TC-1	GENDER RD	258+64, 31' RT							20			1		1	
461	EC-4	GENDER RD	258+64, 31' RT	258+71, 30' RT	7					14						
461	WR-1	GENDER RD	258+68, 39' LT											1		
461	EC-2	GENDER RD	258+68, 39' LT	258+71, 30' LT					142	142						
461	EC-3	GENDER RD	258+71, 30' RT							70						
461	WR-2	GENDER RD	259+62, 38' LT											1		
461	EC-1	GENDER RD	258+68, 39' LT	259+62, 38' LT					95	95						
GENDER RD. BETWEEN STA. 271+00 AND 284+00, INT 2208																
462	IC-5	GENDER RD	277+52, 59' LT			225					1					
462	IC-1	GENDER RD	277+52, 59' LT	281+55, 56' LT		409			409		1					
462	TC-1	GENDER RD	281+41, 67' RT							10		2	1			
462	EC-3	GENDER RD	281+41, 67' RT	281+50, 67' RT	9					9						
462	IC-3	GENDER RD	281+41, 67' RT	281+55, 56' LT				1								
462	IC-4	GENDER RD	281+50, 67' LT	281+55, 56' LT					126							
462	EC-2	GENDER RD	281+50, 67' RT							35						
462	EC-1	GENDER RD	281+50, 67' RT	282+22, 64' RT					72	72						
462	SE A-1	GENDER RD	281+55, 56' LT			150	1									
462	IC-2	GENDER RD	281+55, 56' LT	284+00, 58' LT		249			249							
462	WR-1	GENDER RD	282+22, 64' RT											1		
SHEET TOTAL					39	1033	1	1	1316	758	2	2	3	4	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

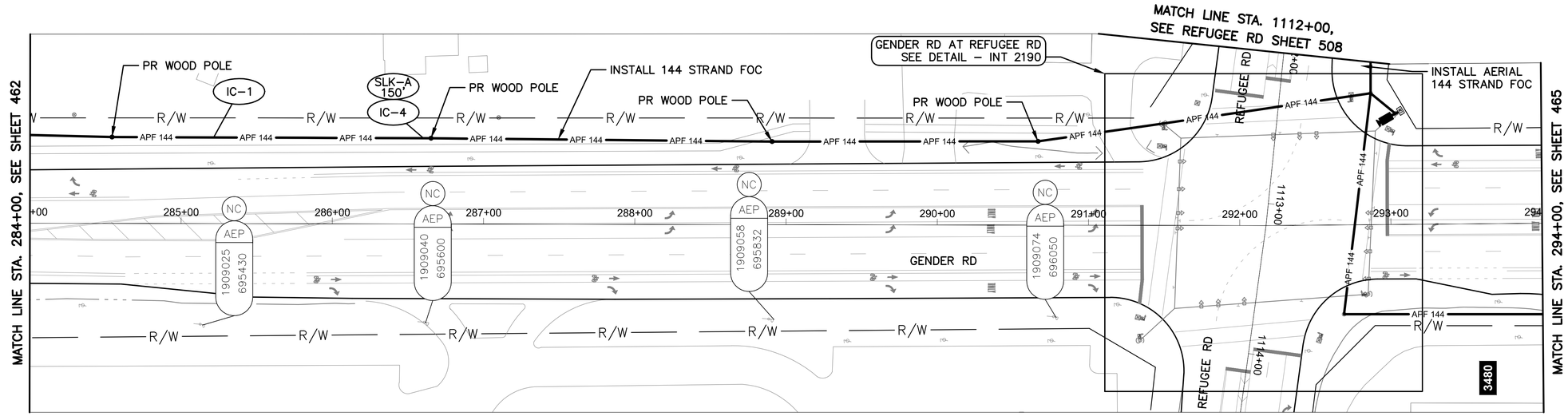
CIP: 540007–100005
PID NUMBER: 14522

GENDER RD. BTW STA. 224+00 & 284+00
INTS 2214, 2213, 2208

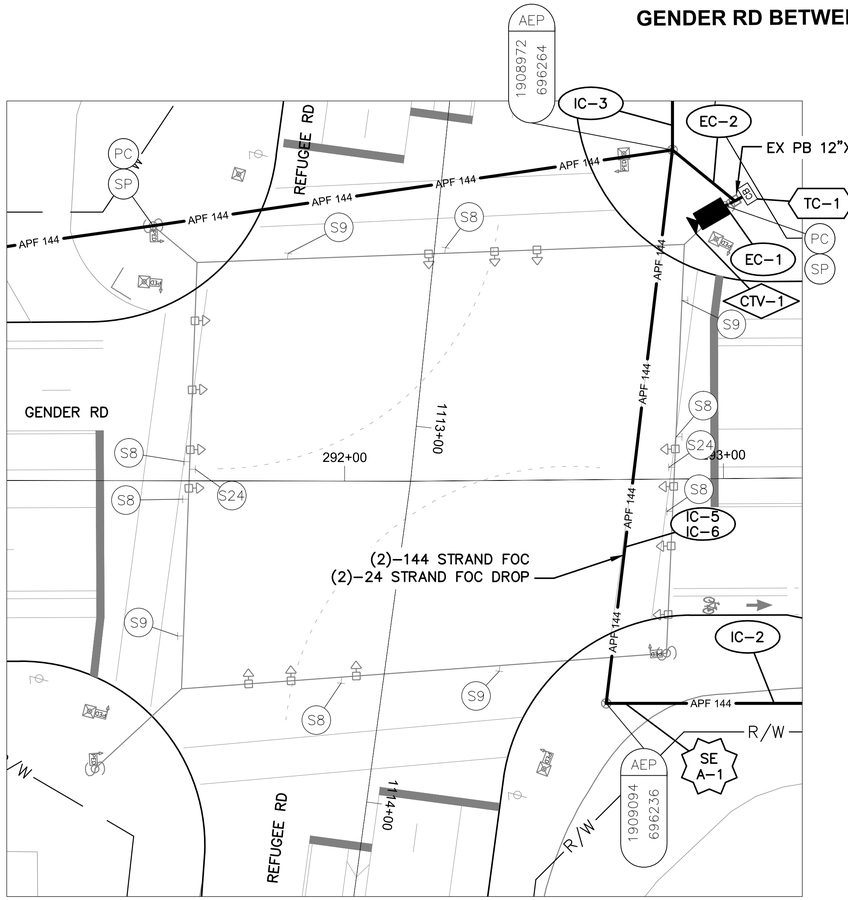
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

463
911

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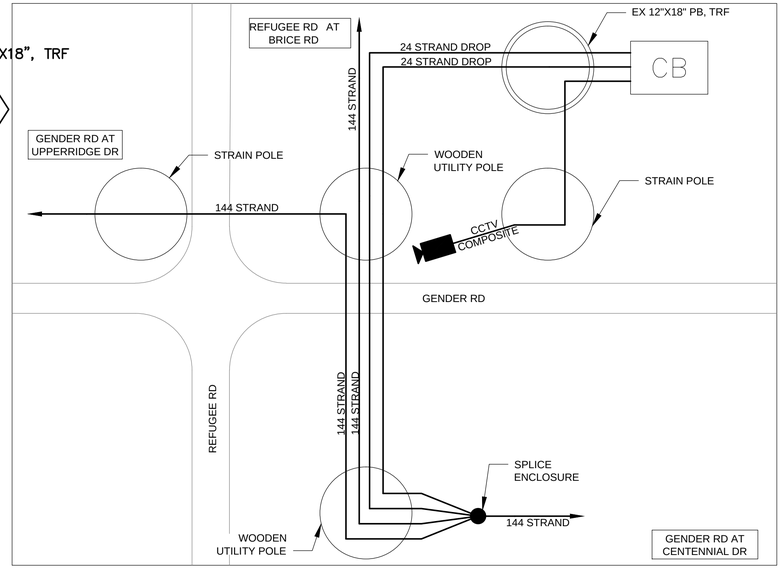


GENDER RD BETWEEN STATION 284+00 AND 294+00



DETAIL - INT 2190

0 20 40
HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC

NOT TO SCALE

NOTES:

1. SEE SHEET 469 FOR QUANTITIES.
2. SEE SHEETS 616 & 827 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2190, 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN

NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

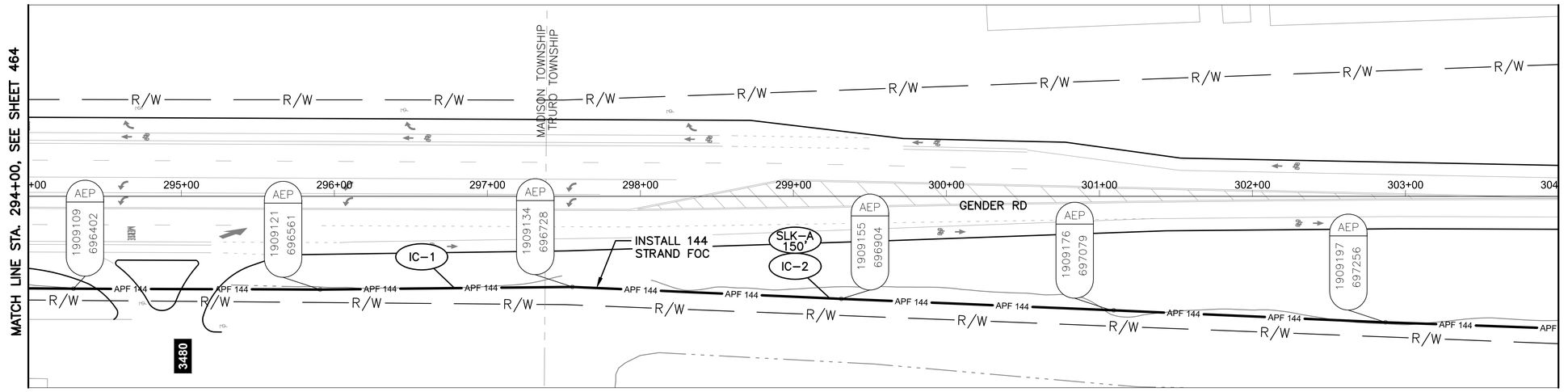
INTERCONNECT PLAN
GENDER RD BETWEEN STA. 284+00 AND 294+00, INT 2190

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

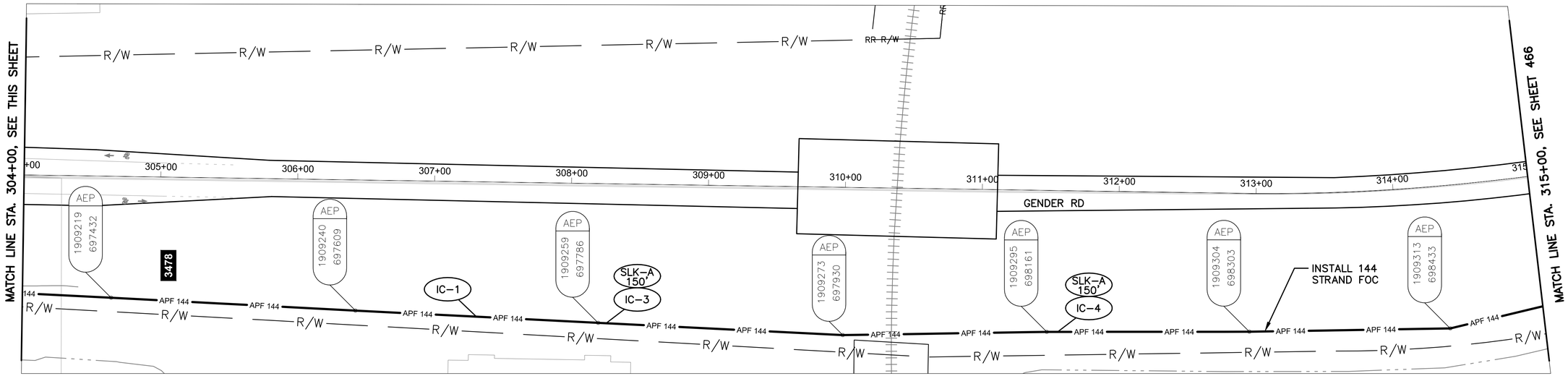
464
911

2953-E

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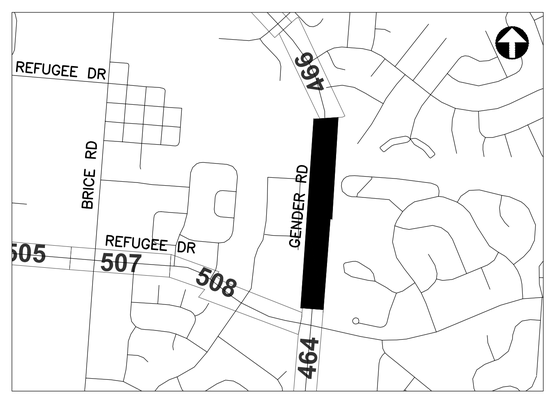
GENDER RD BETWEEN STATION 294+00 AND 304+00



GENDER RD BETWEEN STATION 304+00 AND 315+00

NOTES:

1. SEE SHEET 469 FOR QUANTITIES.
2. SEE SHEET 616 FOR COMMUNICATION DETAILS.
3. CONTRACTOR REQUIRED TO CONTACT NORFOLK SOUTHERN CORP. FOR CROSSING AT STA. 310+35, 107' RT TO COORDINATE FIBER INSTALLATION. SEE SHEET 18 FOR RAILROAD COORDINATION DETAILS.



REFER TO SHEET 271 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

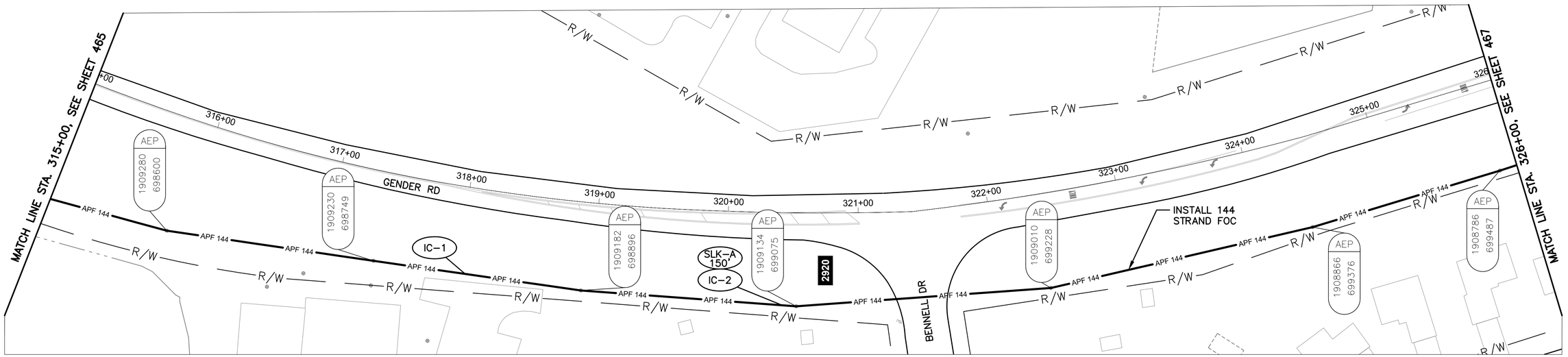
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 294+00 AND 315+00

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

465
911

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GENDER RD BETWEEN STATION 315+00 AND 326+00

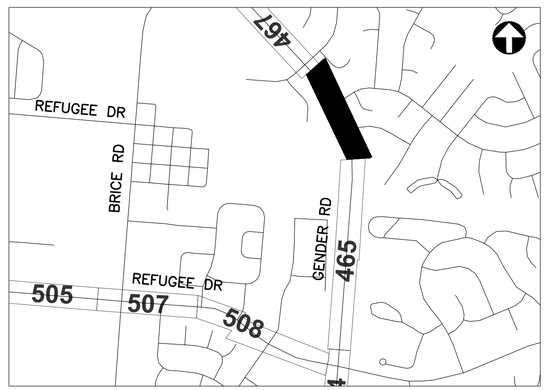
NOTES:

1. SEE SHEET 469 FOR QUANTITIES.
2. SEE SHEET 616 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

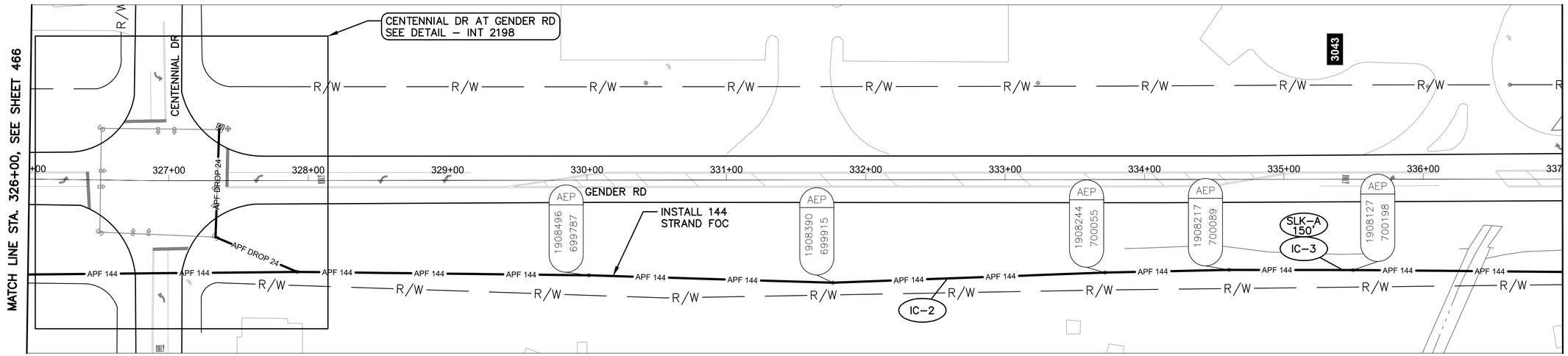
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 315+00 AND 326+00

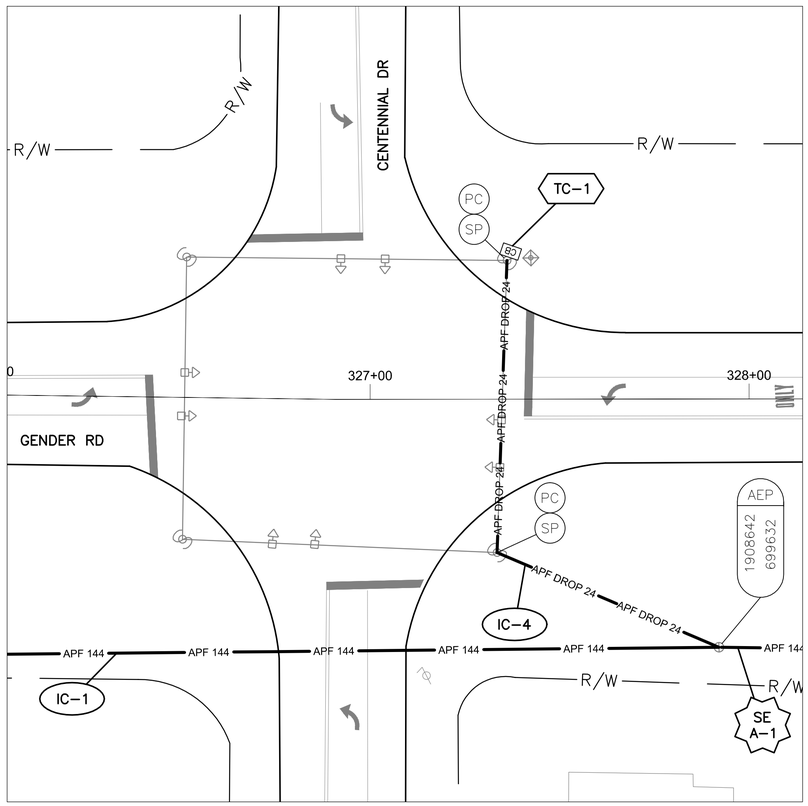
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

466
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_GENDER_INTERCONNECT.dwg - GENDER B layout ~ last saved by: sdlowry 05/08/2017 06:10pm ~ printed 05/08/2017 10:58pm



GENDER RD BETWEEN STATION 326+00 AND 337+00



DETAIL - INT 2198

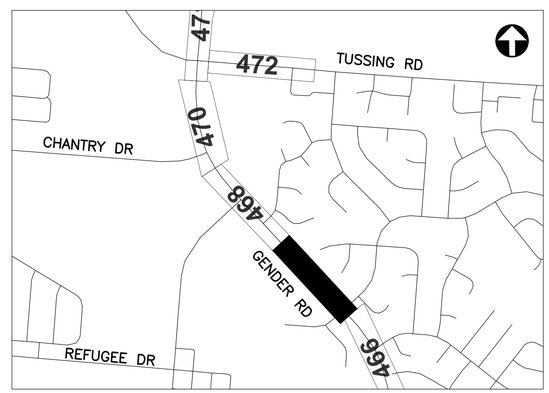
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 469 FOR QUANTITIES.
2. SEE SHEETS 616 & 828 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

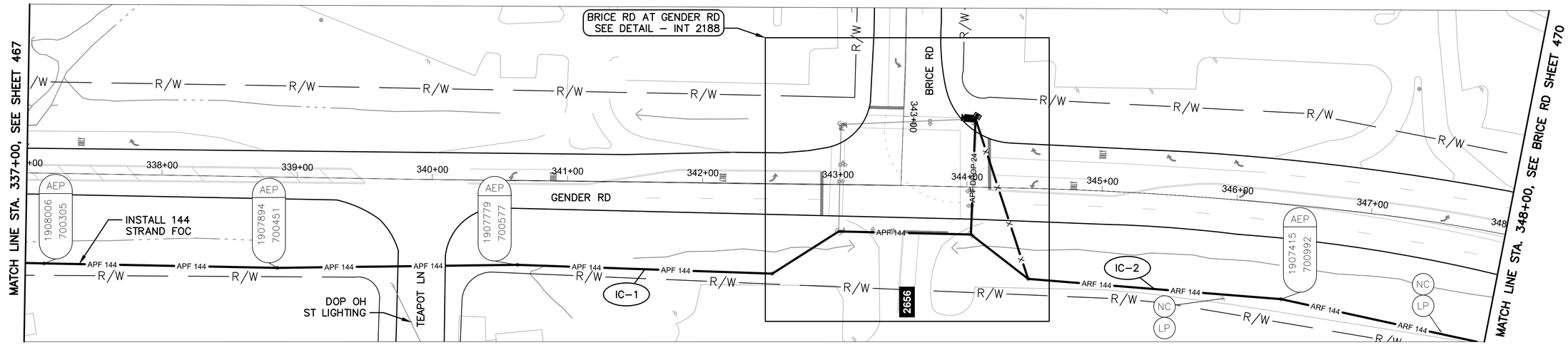
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
GENDER RD BETWEEN STA. 326+00 AND 337+00, INT 2198

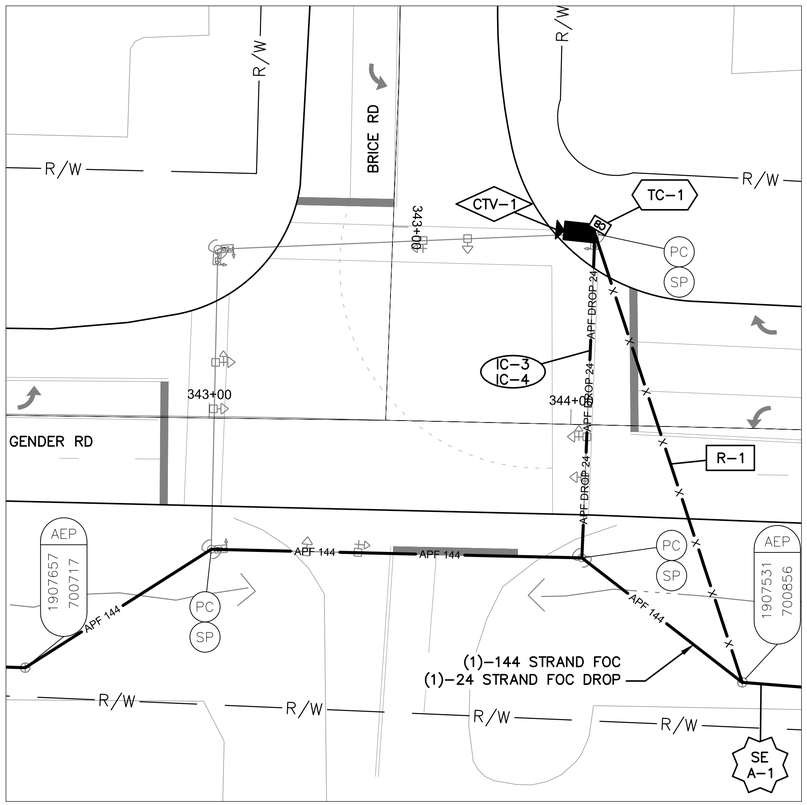
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

467
911

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GENDER RD BETWEEN STATION 337+00 AND 348+00



DETAIL - INT 2188

0 20 40

HORIZONTAL SCALE IN FEET

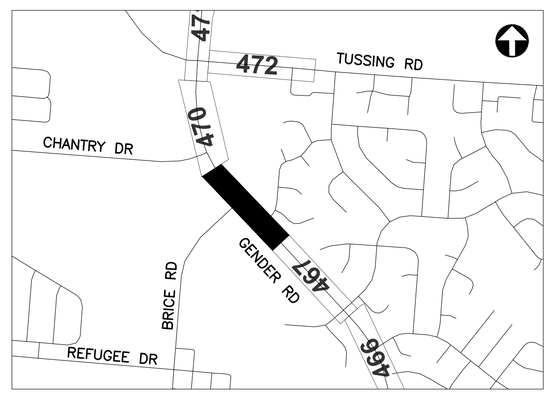
NOTES:

1. SEE SHEET 469 FOR QUANTITIES.
2. SEE SHEETS 616, 625 & 829 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 271 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
GENDER RD BETWEEN STA. 337+00 AND 348+00, INT 2188

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

468
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN	632 DOWN GUY	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/ 300FT DROP CABLE	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT 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	632 WOOD POLE, CLASS 5, 35 FT	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	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH			
GENDER RD. BETWEEN STA. 284+00 AND 294+00, INT 2190																											
464	IC-1	GENDER RD	284+00, 58' LT	292+71, 42' LT			885							885			4									
464	IC-4	GENDER RD	286+60, 57' LT				150																			
464	IC-5	GENDER RD	292+68, 59' RT	292+93, 74' LT									2													
464	IC-3	GENDER RD	292+68, 59' RT	292+80, 108' LT		1	171							171												
464	SE A-1	GENDER RD	292+68, 59' RT				225				1															
464	IC-6	GENDER RD	292+68, 59' RT	292+87, 87' LT			162																			
464	IC-2	GENDER RD	292+68, 59' RT	294+00, 60' RT			133							133												
464	TC-1	GENDER RD	292+93, 74' LT												10				2	1	1					
464	EC-2	GENDER RD	292+93, 74' LT	293+00, 72' LT	22				22						22											
464	CTV-1	GENDER RD	293+00, 72' LT													1										
464	EC-1	GENDER RD	293+00, 72' LT												35											
GENDER RD. BETWEEN STA. 294+00 AND 315+00																											
465	IC-1	GENDER RD	294+00, 60' RT	315+00, 95' RT			2148							2148												
465	IC-2	GENDER RD	299+24, 67' RT				150																			
465	IC-3	GENDER RD	308+26, 102' RT				150																			
465	IC-4	GENDER RD	311+59, 103' RT				150																			
GENDER RD. BETWEEN STA. 315+00 AND 326+00																											
466	IC-1	GENDER RD	315+00, 95' RT	326+00, 68' RT			1167							1167												
466	IC-2	GENDER RD	320+41, 71' RT				150																			
GENDER RD. BETWEEN STA. 326+00 AND 337+00, INT 2198																											
467	IC-1	GENDER RD	326+00, 68' RT	327+91, 66' RT			196							196												
467	IC-4	GENDER RD	327+36, 37' LT	327+91, 66' RT								1		143												
467	TC-1	GENDER RD	327+36, 37' LT																2	1	1					
467	SE A-1	GENDER RD	327+91, 66' RT				150			1																
467	IC-2	GENDER RD	327+91, 66' RT	337+00, 67' RT			922							922												
467	IC-3	GENDER RD	335+42, 65' RT				150																			
GENDER RD. BETWEEN STA. 337+00 AND 348+00, INT 2188																											
468	IC-1	GENDER RD	337+00, 67' RT	344+46, 67' RT			774							774												
468	IC-4	GENDER RD	344+04, 35' RT	344+05, 50' LT										86												
468	IC-3	GENDER RD	344+05, 50' LT	344+46, 67' RT								1														
468	CTV-1	GENDER RD	344+05, 50' LT													1										
468	TC-1	GENDER RD	344+05, 50' LT												45				2	1		1				
468	R-1	GENDER RD	344+05, 50' LT	344+46, 67' RT				125																		
468	SE A-1	GENDER RD	344+46, 67' RT				150			1																
468	IC-2	GENDER RD	344+46, 67' RT	348+00, 82' RT			346	341						346												
SHEET TOTAL					22	1	8329	466	22	2	1	2	2	6971	112	2	4	6	3	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

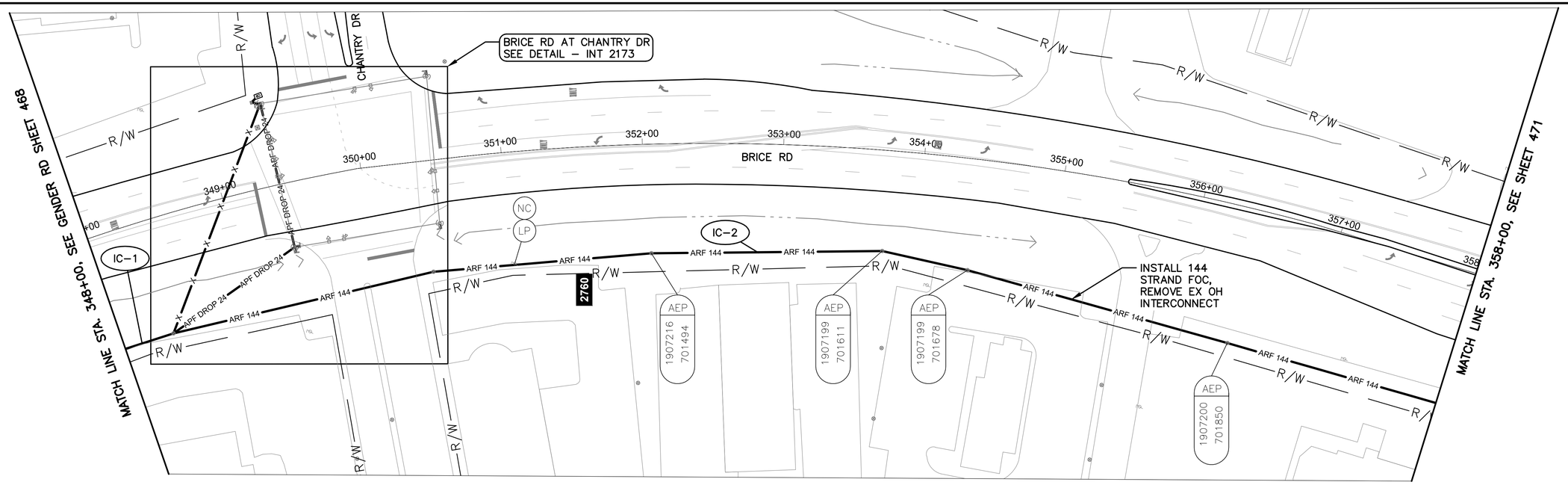
CIP: 540007–100005
PID NUMBER: 14522

GENDER RD. BTW STA. 284+00 & 348+00
INTS 2190, 2198, 2188

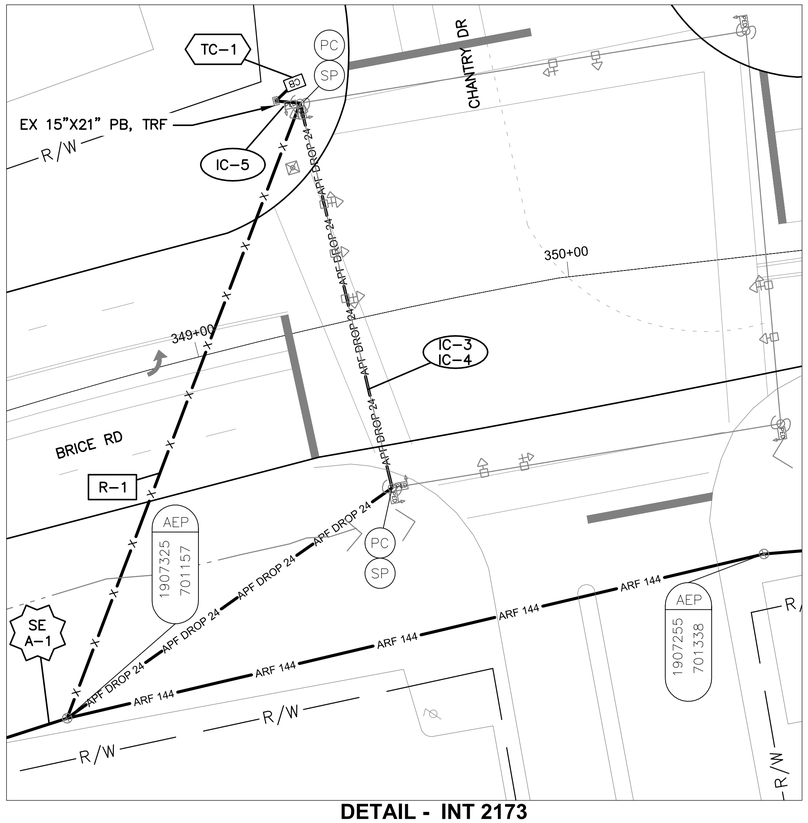
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

469
911

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BRICE RD BETWEEN STATION 348+00 AND 358+00



DETAIL - INT 2173

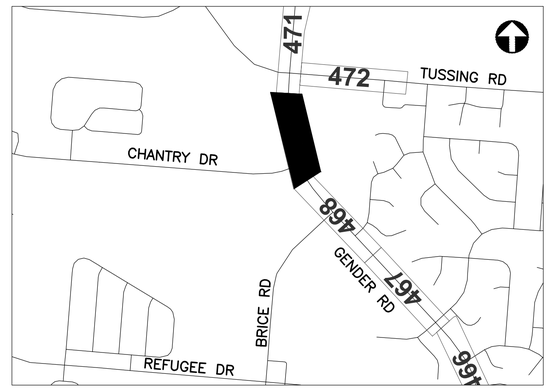
0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEETS 476 & 477 FOR QUANTITIES.
2. SEE SHEETS 616 & 831 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

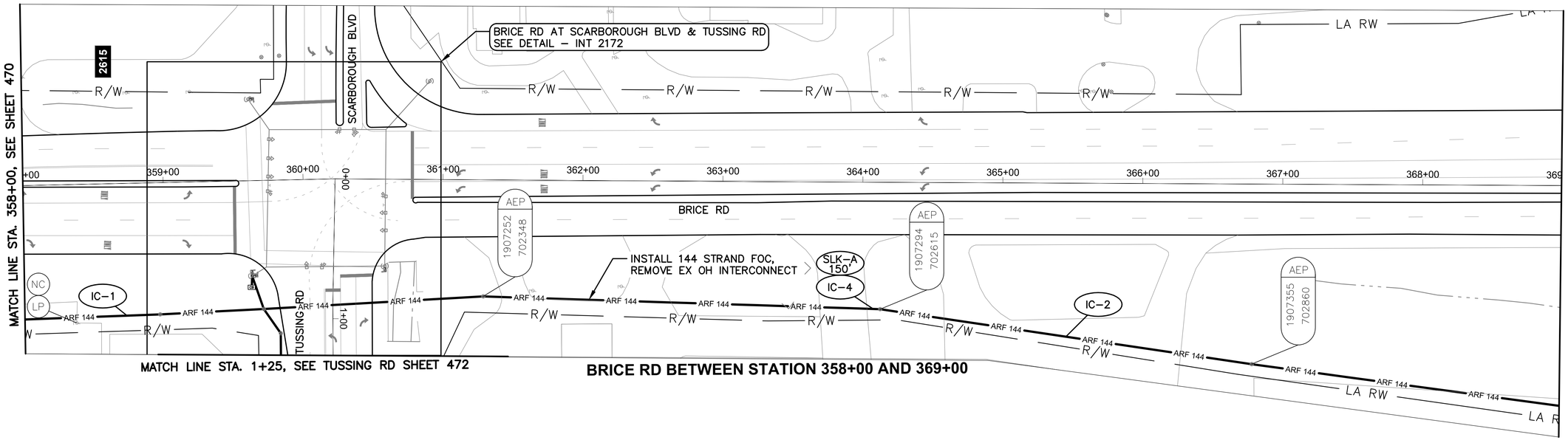
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
BRICE RD BETWEEN STA. 348+00 AND 358+00, INT 2173

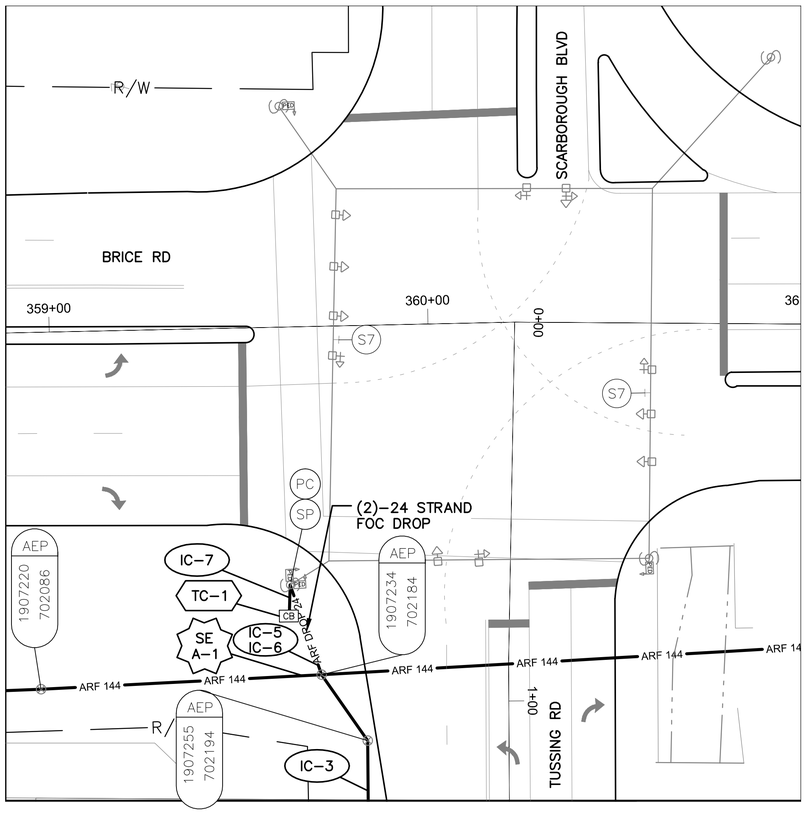
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

470
911

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BRICE RD BETWEEN STATION 358+00 AND 369+00



DETAIL - INT 2172

0 20 40
HORIZONTAL
SCALE IN FEET

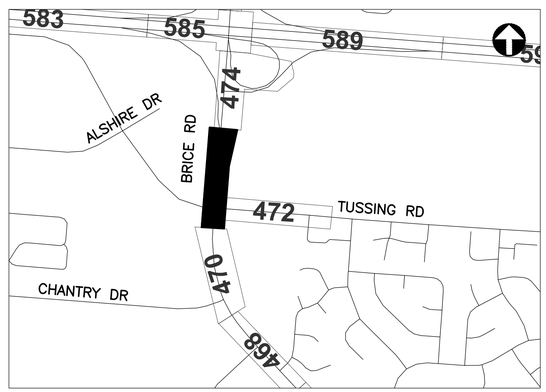
NOTES:

1. SEE SHEETS 476 & 477 FOR QUANTITIES.
2. SEE SHEETS 616 & 832 FOR COMMUNICATION DETAILS.
3. FOR THE SPLICE ENCLOSURE AT INT 2172, 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

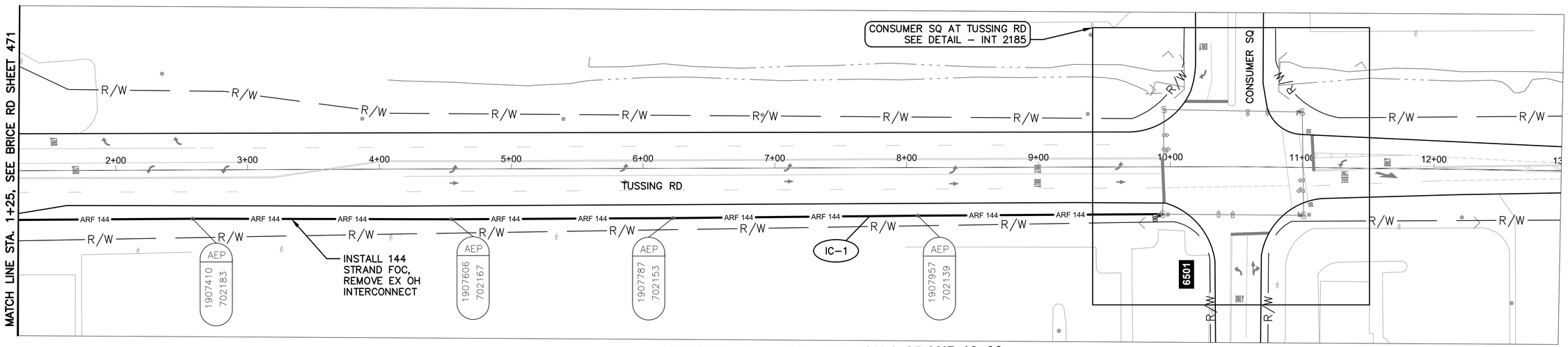
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
BRICE RD BETWEEN STA. 358+00 AND 369+00, INT 2172

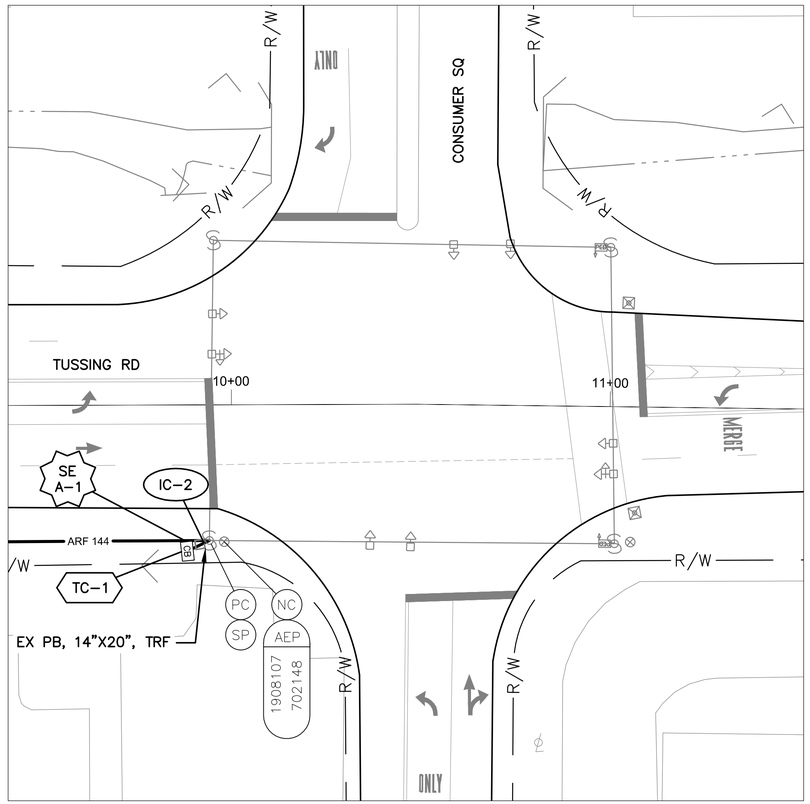
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

471
911

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TUSSING RD BETWEEN STATION 1+25 AND 13+00



DETAIL - INT 2185

0 20 40

HORIZONTAL
SCALE IN FEET

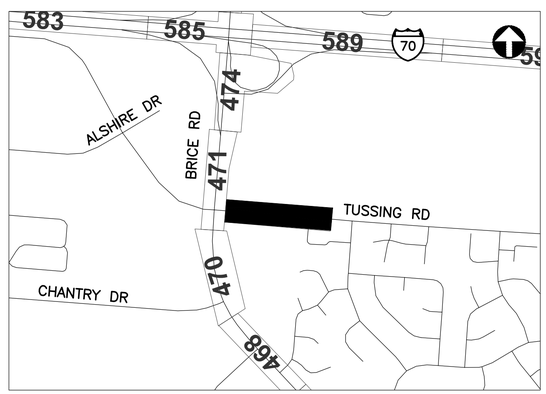
NOTES:

1. SEE SHEET 473 FOR QUANTITIES.
2. SEE SHEETS 616 & 833 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 271 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
TUSSING RD BETWEEN STA. 1+25 AND 13+00, INT 2185

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

472
911

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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.: TERMINATION PANEL, 24 FIBER, W/ 200FT DROP CABLE	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	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
			FROM	TO	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH
TUSSING RD. BETWEEN STA. 1+25 AND 13+00, INT 2185														
472	IC-1	TUSSING RD	1+25, 37' RT	9+94, 36' RT		877	864				877			
472	TC-1	TUSSING RD	9+89, 38' RT									1	1	1
472	IC-2	TUSSING RD	9+89, 38' RT	9+94, 36' RT	5			5		1				
472	SE A-1	TUSSING RD	9+94, 36' RT			75			1					
SHEET TOTAL					5	952	864	5	1	1	877	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

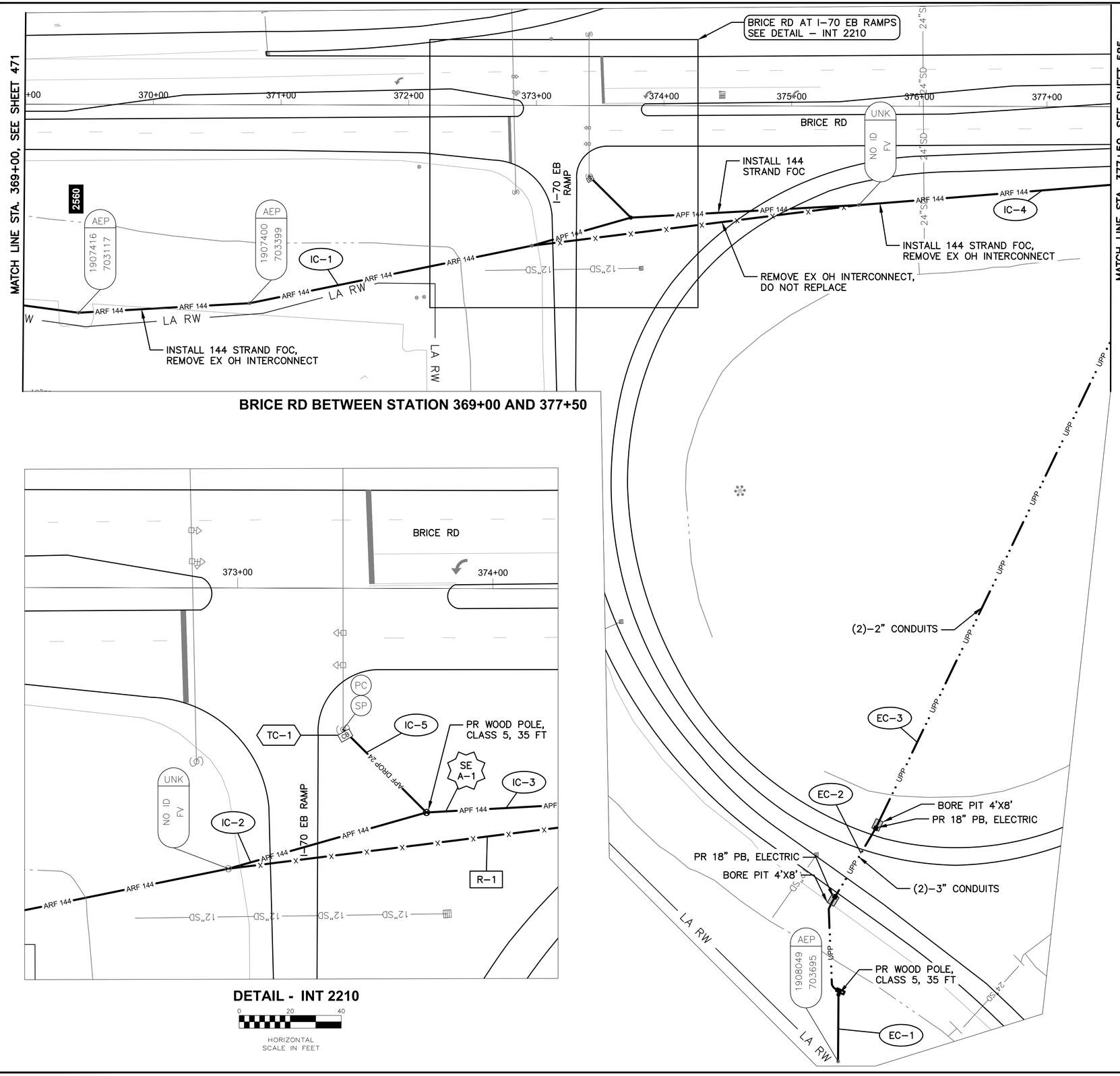
CIP: 540007–100005
PID NUMBER: 14522

TUSSING RD. BTW STA. 1+25 & 13+00
INT 2185

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

473
911

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BRICE RD BETWEEN STATION 369+00 AND 377+50

DETAIL - INT 2210

0 20 40

HORIZONTAL SCALE IN FEET

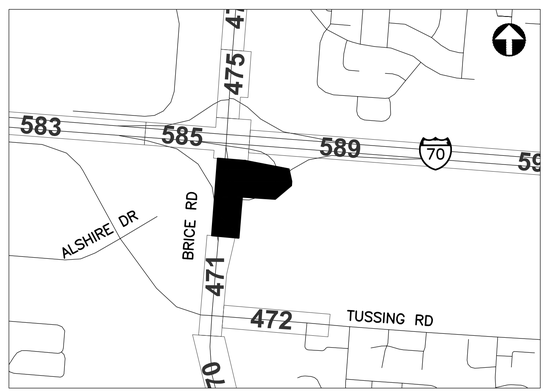
NOTES:

1. SEE SHEETS 476 & 477 FOR QUANTITIES.
2. SEE SHEETS 616 & 834 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SEE SHEET 285 FOR POWER SERVICE 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80

HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

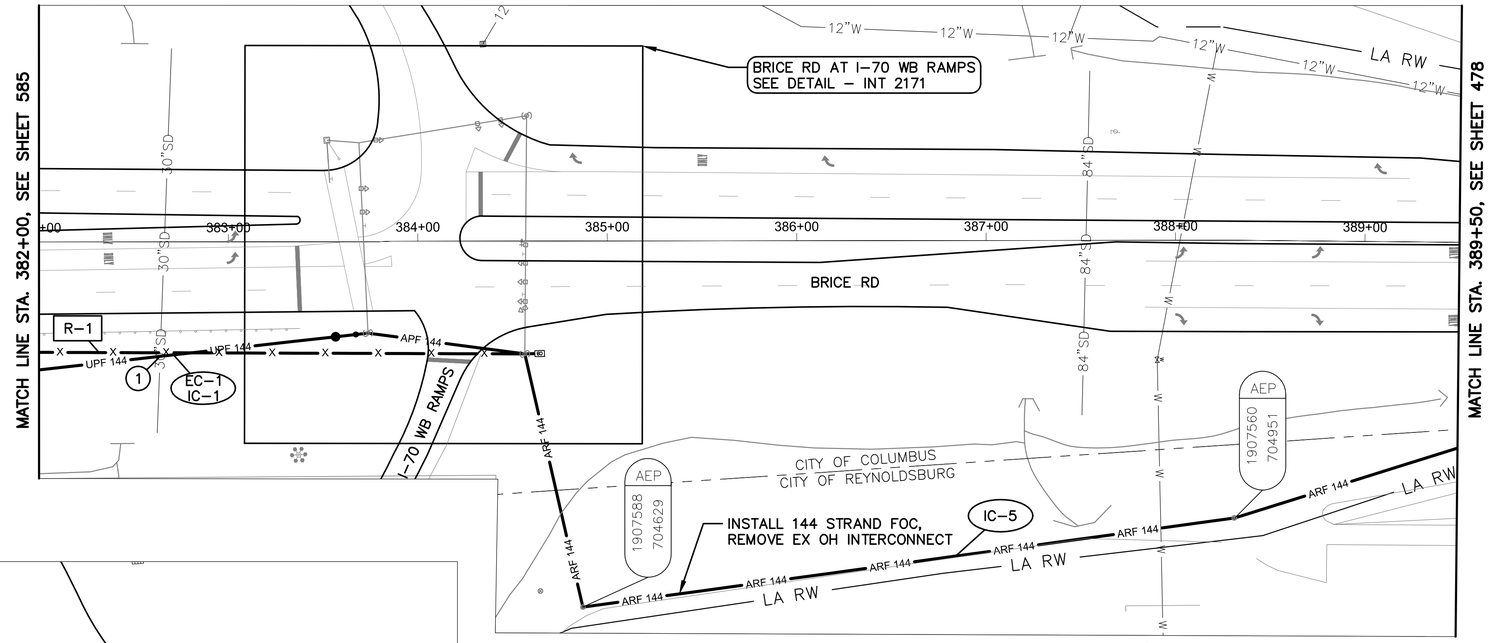
INTERCONNECT PLAN
BRICE RD BETWEEN STA. 369+00 AND 377+50, INT 2210

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

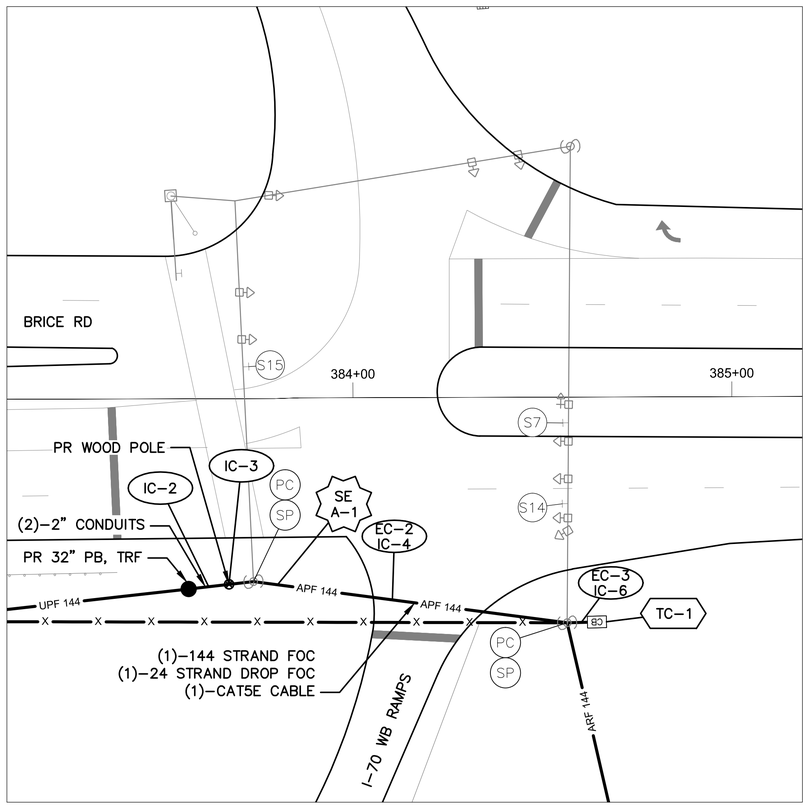
474
911

2953-E

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BRICE RD BETWEEN STATION 382+00 AND 389+50



DETAIL - INT 2171

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

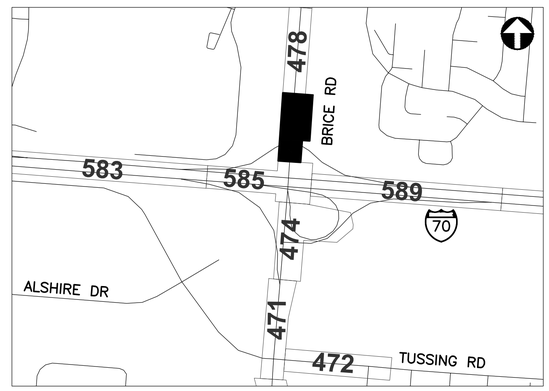
1. SEE SHEETS 476 & 477 FOR QUANTITIES.
2. SEE SHEETS 614 & 835 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 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
BRICE RD BETWEEN STA. 382+00 AND 389+50, INT 2171

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

475
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 NO. 3 AWG 600 VOLT DISTRIBUTION CABLE (FT)	625 NO. 6 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 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 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 450FT DROP CABLE (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)
BRICE RD. BETWEEN STA. 348+00 AND 358+00, INT 2173																								
470	IC-1	BRICE RD	348+00, 82' RT	348+38, 82' RT												37	36							37
470	IC-3	BRICE RD	348+38, 82' RT	349+40, 59' LT																				213
470	R-1	BRICE RD	348+38, 82' RT	349+40, 59' LT													174							
470	SE A-1	BRICE RD	348+38, 82' RT													150			1					
470	IC-2	BRICE RD	348+38, 82' RT	358+00, 96' RT												928	914							928
470	IC-4	BRICE RD	348+38, 82' RT	349+40, 64' LT																			1	
470	TC-1	BRICE RD	349+40, 64' LT																					
470	IC-5	BRICE RD	349+40, 64' LT	349+40, 60' LT	5													5						
BRICE RD. BETWEEN STA. 358+00 AND 369+00, INT 2172																								
471	IC-1	BRICE RD	358+00, 96' RT	359+69, 92' RT												173	170							173
471	TC-1	BRICE RD	359+61, 76' RT																					
471	IC-7	BRICE RD	359+61, 76' RT	359+62, 68' RT	8													8						
471	IC-6	BRICE RD	359+61, 76' RT	359+69, 92' RT																		2		
471	IC-5	BRICE RD	359+62, 68' RT	359+69, 92' RT													25							25
471	SE A-1	BRICE RD	359+69, 92' RT													225				1				
471	IC-3	BRICE RD	359+69, 92' RT	359+81, 129' RT												42	41							42
471	IC-2	BRICE RD	359+69, 92' RT	369+00, 158' RT												946	932							946
471	IC-4	BRICE RD	364+07, 91' RT													150								
BRICE RD. BETWEEN STA. 369+00 AND 377+50, INT 2210																								
474	IC-1	BRICE RD	369+00, 158' RT	372+96, 110' RT												408	402							408
474	IC-2	BRICE RD	372+96, 110' RT	373+74, 88' RT												82								82
474	R-1	BRICE RD	372+96, 110' RT	375+52, 77' RT													258							
474	TC-1	BRICE RD	373+41, 55' RT																					
474	IC-5	BRICE RD	373+41, 55' RT	373+74, 88' RT																		1		46
474	SE A-1	BRICE RD	373+74, 88' RT													150			1					
474	IC-3	BRICE RD	373+74, 88' RT	375+52, 77' RT												182								182
474	EC-1	BRICE RD	375+18, 695' RT						105	35	1				2									
474	EC-2	BRICE RD	375+18, 619' RT	375+55, 567' RT				122	183	61		2												
474	IC-4	BRICE RD	375+52, 77' RT	377+50, 61' RT												201								201
474	EC-3	BRICE RD	375+55, 567' RT	377+50, 184' RT		850			1275	425				425										
BRICE RD. BETWEEN STA. 382+00 AND 389+50, INT 2171																								
475	R-1	BRICE RD	382+00, 58' RT	384+56, 60' RT													256							
475	IC-1	BRICE RD	382+00, 67' RT	383+56, 50' RT			157						1	157		157								
475	EC-1	BRICE RD	382+00, 67' RT	383+56, 50' RT																				
475	IC-2	BRICE RD	383+56, 50' RT	383+67, 49' RT		22								11		11								
475	IC-3	BRICE RD	383+67, 49' RT												2	35								
475	IC-4	BRICE RD	383+67, 49' RT	384+56, 60' RT												91								91
475	EC-2	BRICE RD	383+67, 49' RT	384+56, 60' RT																				
475	SE A-1	BRICE RD	384+56, 60' RT													150			1					
475	IC-6	BRICE RD	384+56, 60' RT	384+64, 59' RT	8													8			1			
475	EC-3	BRICE RD	384+56, 60' RT	384+64, 59' RT																				
475	IC-5	BRICE RD	384+56, 60' RT	389+50, 109' RT												617	608							617
475	TC-1	BRICE RD	384+64, 59' RT																					
SHEET TOTAL					21	872	157	122	1563	521	1	2	1	593	4	4735	3816	21	3	1	1	3	1	3991

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 – BRICE RD. BTW STA. 348+00 & 389+50
INTS 2173, 2172, 2210, 2171

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

476
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED 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 ITEM, MISC.: TERMINAL PORT SERVER EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
BRICE RD. BETWEEN STA. 348+00 AND 358+00, INT 2173										
470	IC-1	BRICE RD	348+00, 82' RT	348+38, 82' RT						
470	IC-3	BRICE RD	348+38, 82' RT	349+40, 59' LT						
470	R-1	BRICE RD	348+38, 82' RT	349+40, 59' LT						
470	SE A-1	BRICE RD	348+38, 82' RT							
470	IC-2	BRICE RD	348+38, 82' RT	358+00, 96' RT						
470	IC-4	BRICE RD	348+38, 82' RT	349+40, 64' LT						
470	TC-1	BRICE RD	349+40, 64' LT				2	1		1
470	IC-5	BRICE RD	349+40, 64' LT	349+40, 60' LT						
BRICE RD. BETWEEN STA. 358+00 AND 369+00, INT 2172										
471	IC-1	BRICE RD	358+00, 96' RT	359+69, 92' RT						
471	TC-1	BRICE RD	359+61, 76' RT				3	1	1	
471	IC-7	BRICE RD	359+61, 76' RT	359+62, 68' RT						
471	IC-6	BRICE RD	359+61, 76' RT	359+69, 92' RT						
471	IC-5	BRICE RD	359+62, 68' RT	359+69, 92' RT						
471	SE A-1	BRICE RD	359+69, 92' RT							
471	IC-3	BRICE RD	359+69, 92' RT	359+81, 129' RT						
471	IC-2	BRICE RD	359+69, 92' RT	369+00, 158' RT						
471	IC-4	BRICE RD	364+07, 91' RT							
BRICE RD. BETWEEN STA. 369+00 AND 377+50, INT 2210										
474	IC-1	BRICE RD	369+00, 158' RT	372+96, 110' RT						
474	IC-2	BRICE RD	372+96, 110' RT	373+74, 88' RT						
474	R-1	BRICE RD	372+96, 110' RT	375+52, 77' RT						
474	TC-1	BRICE RD	373+41, 55' RT				2	1	1	
474	IC-5	BRICE RD	373+41, 55' RT	373+74, 88' RT						
474	SE A-1	BRICE RD	373+74, 88' RT			1				
474	IC-3	BRICE RD	373+74, 88' RT	375+52, 77' RT						
474	EC-1	BRICE RD	375+18, 695' RT			1				
474	EC-2	BRICE RD	375+18, 619' RT	375+55, 567' RT						
474	IC-4	BRICE RD	375+52, 77' RT	377+50, 61' RT						
474	EC-3	BRICE RD	375+55, 567' RT	377+50, 184' RT						
BRICE RD. BETWEEN STA. 382+00 AND 389+50, INT 2171										
475	R-1	BRICE RD	382+00, 58' RT	384+56, 60' RT						
475	IC-1	BRICE RD	382+00, 67' RT	383+56, 50' RT	157					
475	EC-1	BRICE RD	382+00, 67' RT	383+56, 50' RT						
475	IC-2	BRICE RD	383+56, 50' RT	383+67, 49' RT	35					
475	IC-3	BRICE RD	383+67, 49' RT			1				
475	IC-4	BRICE RD	383+67, 49' RT	384+56, 60' RT	91					
475	EC-2	BRICE RD	383+67, 49' RT	384+56, 60' RT	35					
475	SE A-1	BRICE RD	384+56, 60' RT							
475	IC-6	BRICE RD	384+56, 60' RT	384+64, 59' RT	8					
475	EC-3	BRICE RD	384+56, 60' RT	384+64, 59' RT						
475	IC-5	BRICE RD	384+56, 60' RT	389+50, 109' RT	10					
475	TC-1	BRICE RD	384+64, 59' RT				2	1	1	
SHEET TOTAL					336	3	9	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

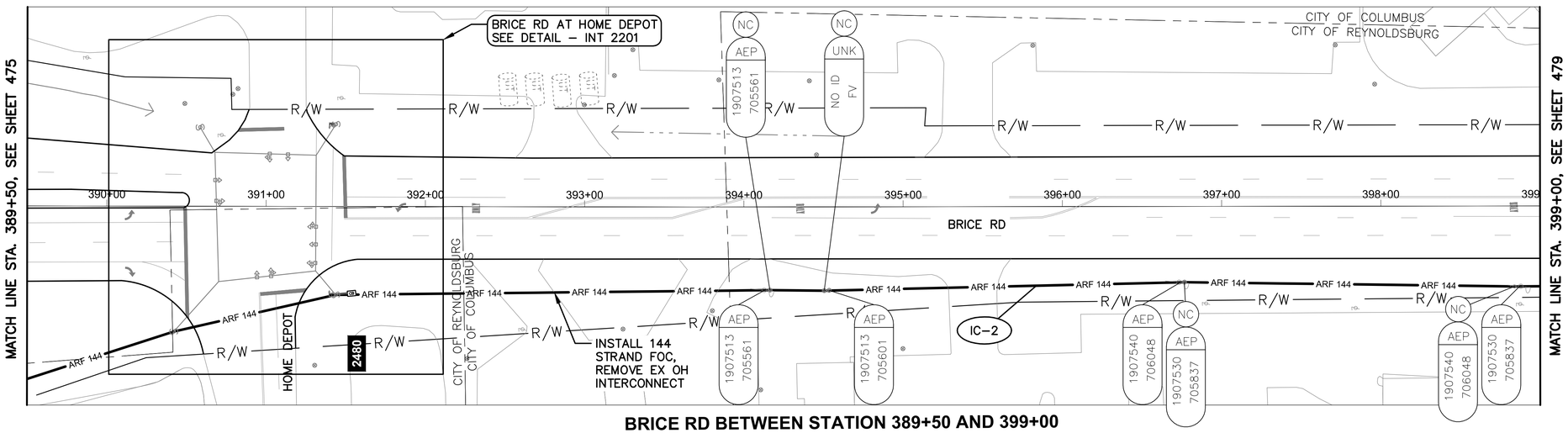
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – BRICE RD. BTW STA. 348+00 & 389+50
INTS 2173, 2172, 2210, 2171

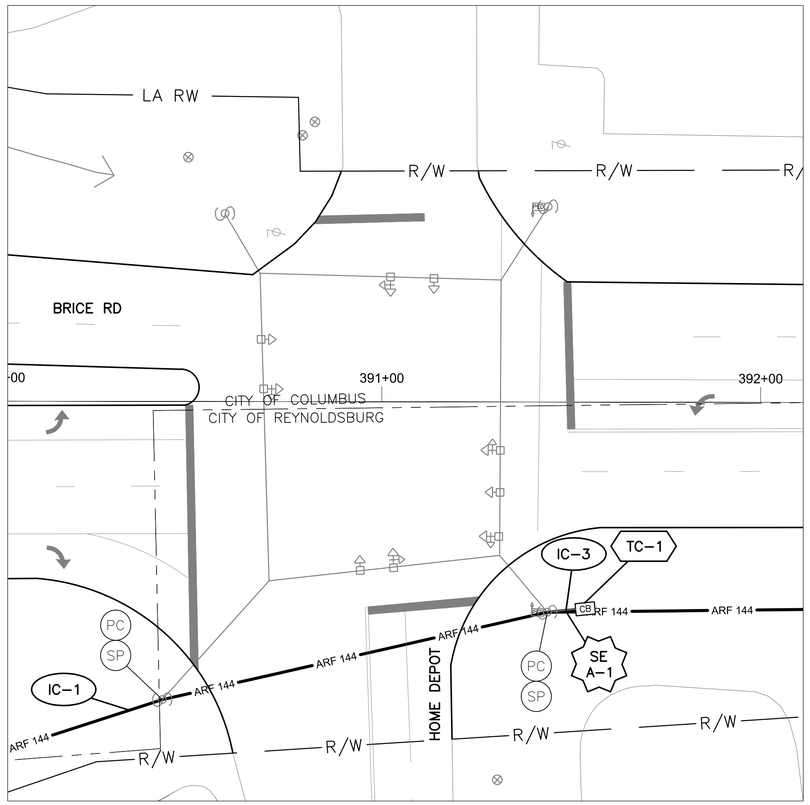
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

477
911

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BRICE RD BETWEEN STATION 389+50 AND 399+00



DETAIL - INT 2201

0 20 40

HORIZONTAL
SCALE IN FEET

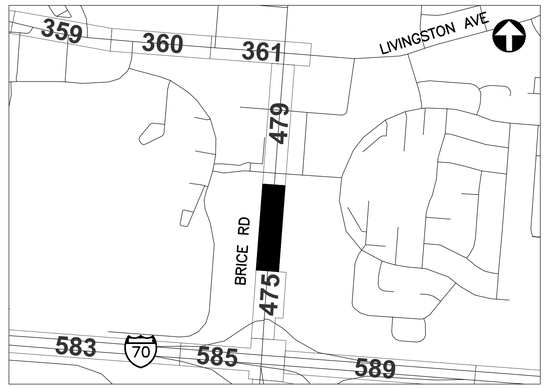
NOTES:

1. SEE SHEET 480 FOR QUANTITIES.
2. SEE SHEETS 614 & 836 FOR COMMUNICATION DETAILS.
3. ATTACH TO STEEL POLES.

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

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



REFER TO SHEET 271 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

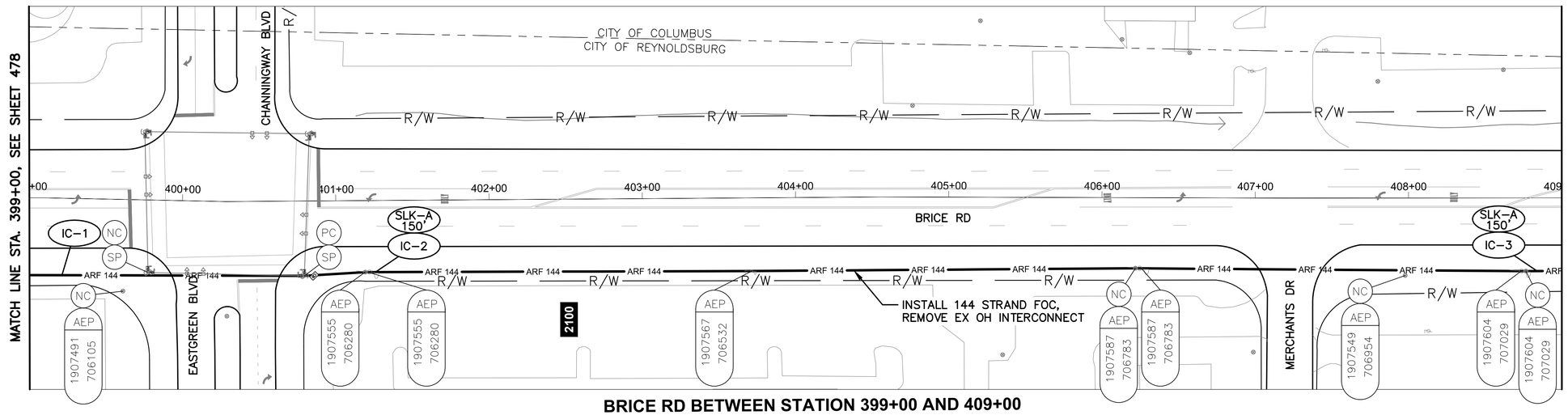
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PID NUMBER: 14522

INTERCONNECT PLAN
BRICE RD BETWEEN STA. 389+50 AND 399+00, INT 2201

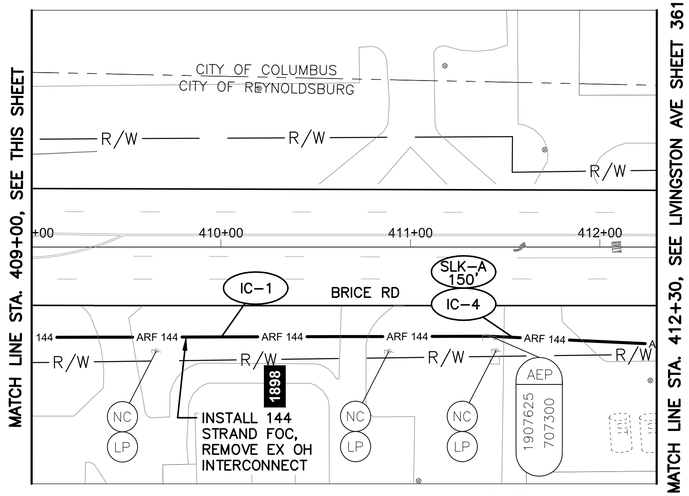
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

478
911

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BRICE RD BETWEEN STATION 399+00 AND 409+00



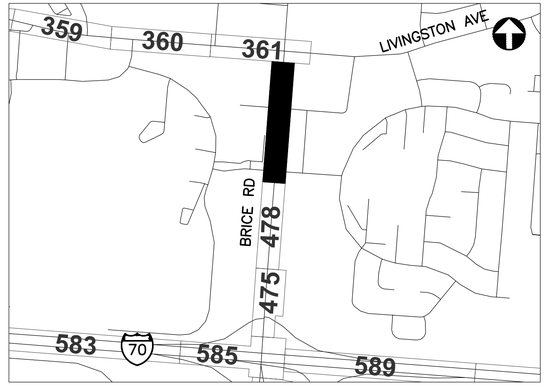
BRICE RD BETWEEN STATION 409+00 AND 412+30

NOTES:

1. SEE SHEET 480 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. ROUTE PROPOSED FOC ON EAST SIDE OF POLE AT SE CORNER OF BRICE RD AND EASTGREEN BLVD.
4. ATTACH TO STEEL POLES.

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



REFER TO SHEET 271 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
BRICE RD BETWEEN STA. 399+00 AND 412+30

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

479
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	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.: TERMINATION PANEL, 24 FIBER, W/ 200FT 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	FT	FT	EACH	EACH	FT	EACH	EACH	EACH											
BRICE RD. BETWEEN STA. 389+50 AND 399+00, INT 2201																									
478	IC-1	BRICE RD	389+50, 109' RT	391+43, 55' RT		204	201			204															
478	SE A-1	BRICE RD	391+43, 55' RT			150		1																	
478	IC-3	BRICE RD	391+43, 55' RT	391+53, 55' RT	10				1																
478	IC-2	BRICE RD	391+43, 55' RT	399+00, 50' RT		767	756			767															
478	TC-1	BRICE RD	391+53, 55' RT								2	1	1												
BRICE RD. BETWEEN STA. 399+00 AND 412+30																									
479	IC-1	BRICE RD	399+00, 50' RT	412+30, 47' RT		1350	1330			1350															
479	IC-2	BRICE RD	401+25, 47' RT			150																			
479	IC-3	BRICE RD	408+83, 48' RT			150																			
479	IC-4	BRICE RD	411+56, 47' RT			150																			
SHEET TOTAL					10	2921	2287	1	1	2321	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

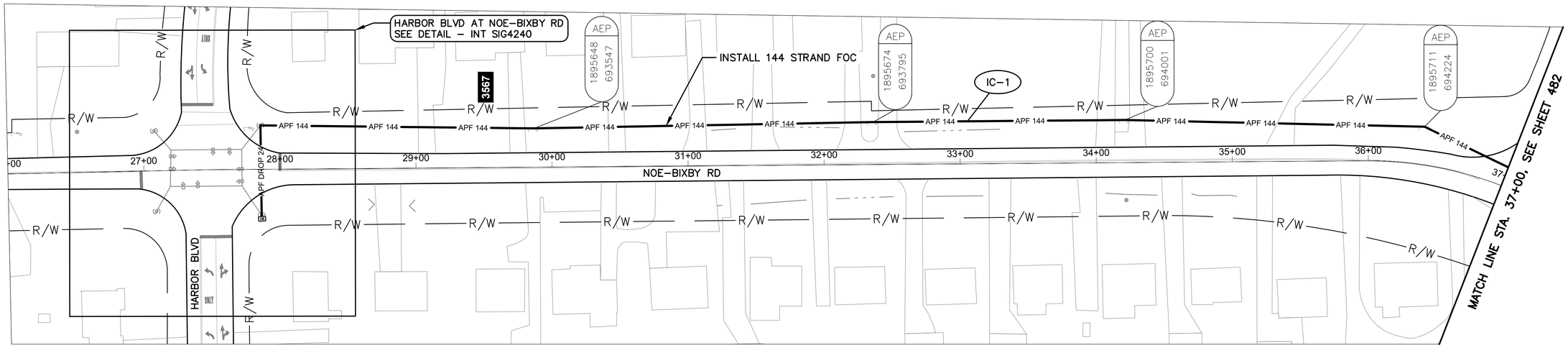
CIP: 540007-100005
PID NUMBER: 14522

BRICE RD. BTW STA. 389+50 & 412+30
INT 2201

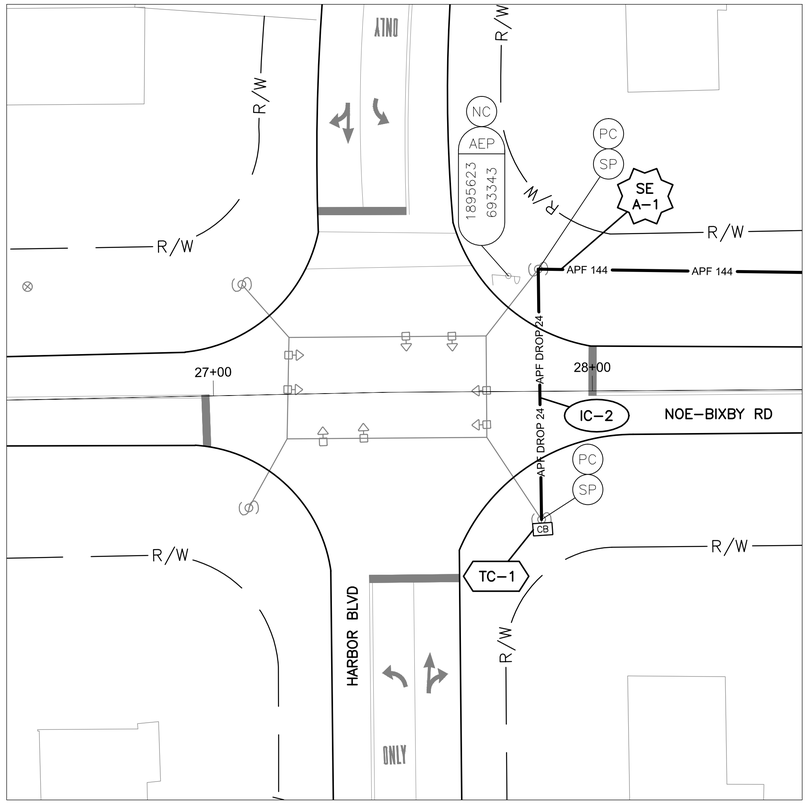
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

480
911

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NOE-BIXBY RD BETWEEN STATION 26+00 AND 37+00



DETAIL - INT SIG4240

0 20 40
HORIZONTAL
SCALE IN FEET

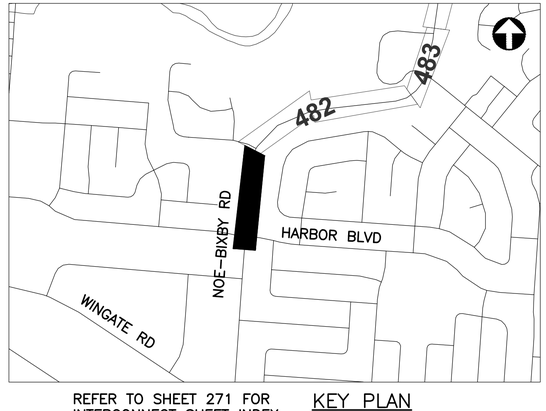
NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEETS 615 & 837 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO NEW CABINET FOR PROPOSED DROP CABLE.

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TWO WORKING DAYS BEFORE YOU DIG
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

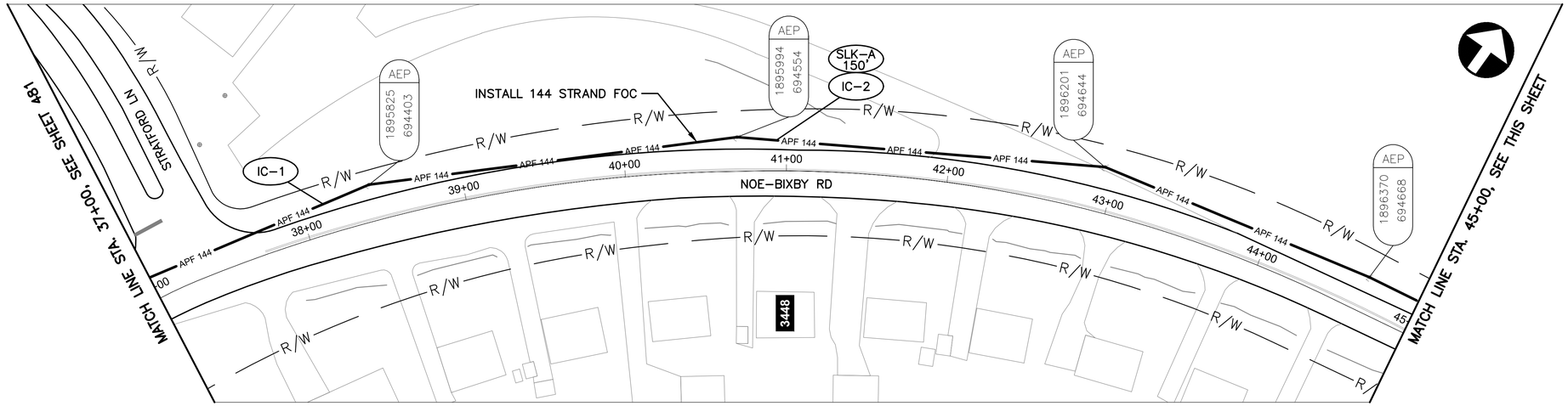
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PID NUMBER: 14522

INTERCONNECT PLAN
NOE–BIXBY RD BETWEEN STA. 26+00 AND 37+00, INT SIG4240

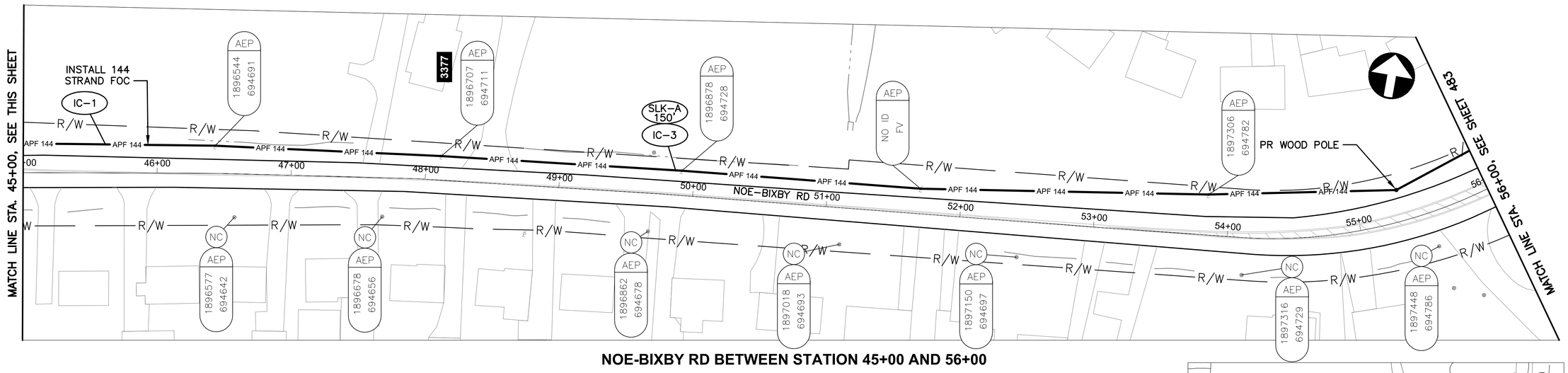
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

481
911

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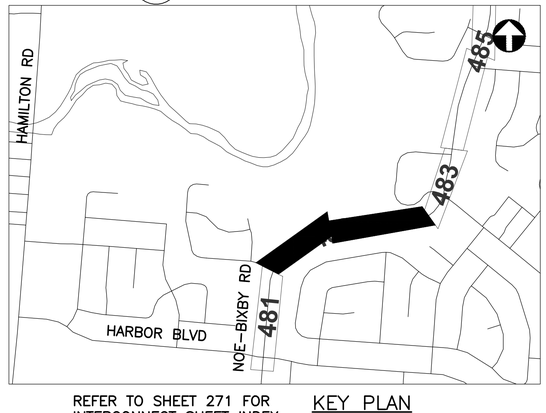
NOE-BIXBY RD BETWEEN STATION 37+00 AND 45+00



NOE-BIXBY RD BETWEEN STATION 45+00 AND 56+00

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

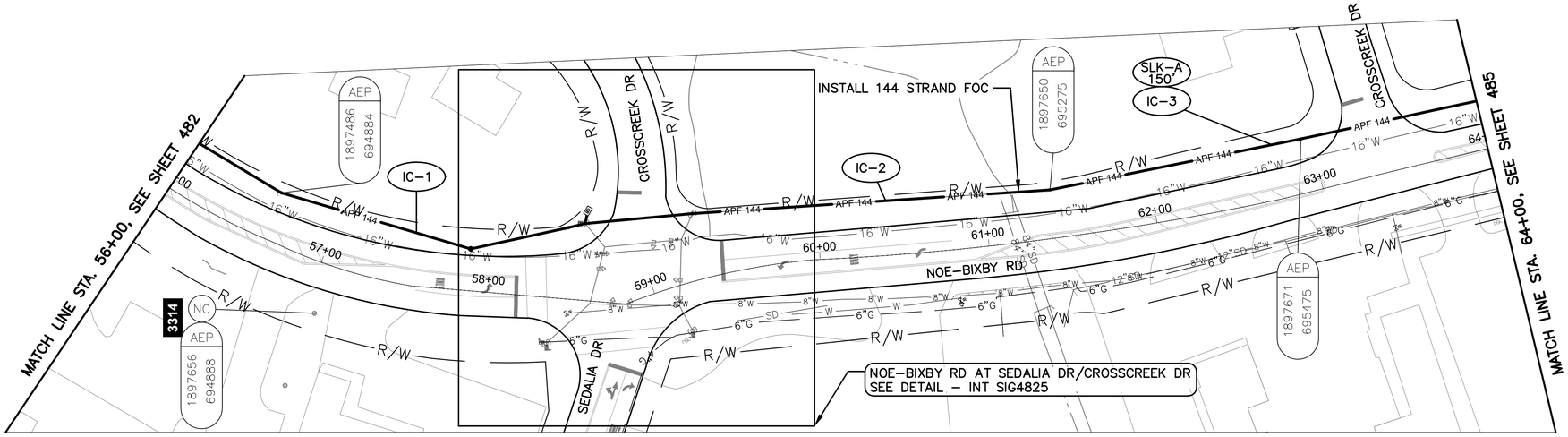
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
NOE–BIXBY RD BETWEEN STA. 37+00 AND 56+00

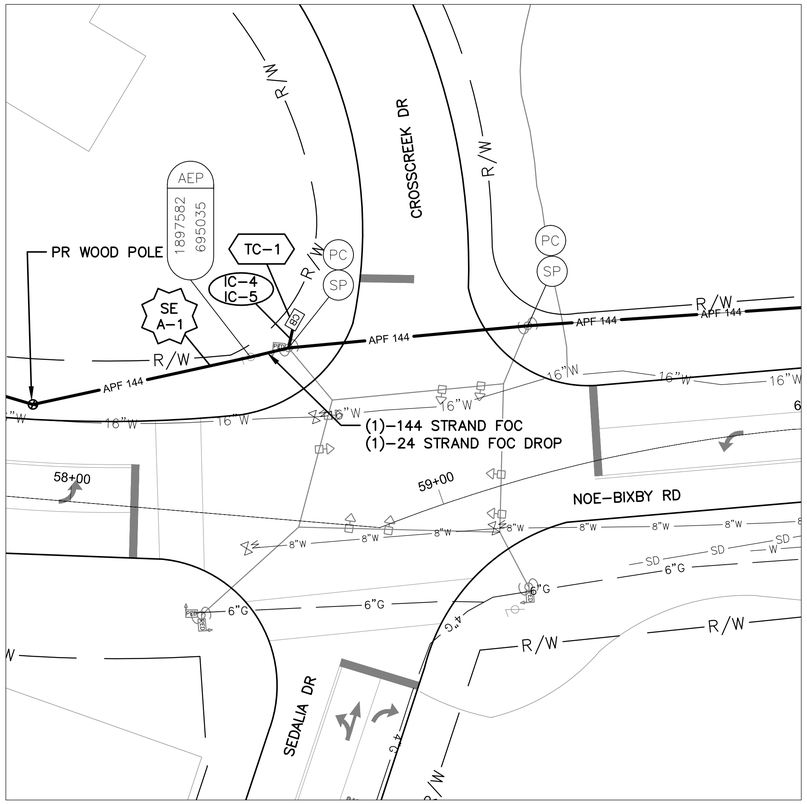
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

482
911

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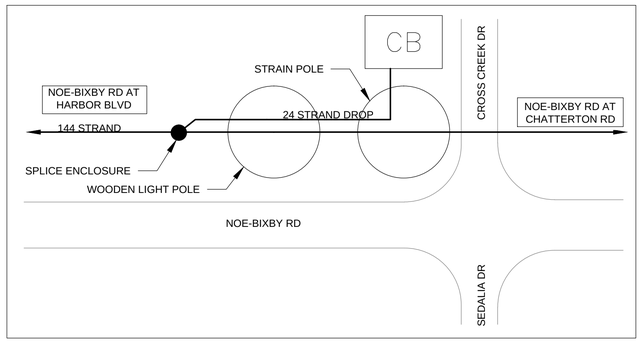
NOE-BIXBY RD BETWEEN STATION 56+00 AND 64+00



DETAIL - INT SIG4825

0 20 40

HORIZONTAL SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEET 484 FOR QUANTITIES.
2. SEE SHEETS 615 & 838 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
NOE-BIXBY RD BETWEEN STA. 56+00 AND 64+00, INT SIG4825

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

483
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	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, 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	WOOD POLE, CLASS 5, 35 FT	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									
			FROM	TO	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH										
NOE-BIXBY RD. BETWEEN STA. 26+00 AND 37+00, INT SIG4240																									
481	SE A-1	NOE-BIXBY RD	27+85, 32' LT			75	1																		
481	IC-1	NOE-BIXBY RD	27+85, 32' LT	37+00, 14' LT		938			938																
481	IC-2	NOE-BIXBY RD	27+85, 32' LT	27+86, 34' RT				1	67																
481	TC-1	NOE-BIXBY RD	27+86, 34' RT								1	2	1		1										
NOE-BIXBY RD. BETWEEN STA. 37+00 AND 56+00																									
482	IC-1	NOE-BIXBY RD	37+00, 14' LT	56+00, 31' LT		1936			1936	1															
482	IC-2	NOE-BIXBY RD	40+93, 19' LT			150																			
482	IC-3	NOE-BIXBY RD	49+85, 18' LT			150																			
NOE-BIXBY RD. BETWEEN STA. 56+00 AND 64+00, INT SIG4825																									
483	IC-1	NOE-BIXBY RD	56+00, 31' LT	58+44, 42' LT		235			235	1															
483	SE A-1	NOE-BIXBY RD	58+44, 42' LT			150	1																		
483	IC-2	NOE-BIXBY RD	58+44, 42' LT	64+00, 29' LT		550			550																
483	IC-4	NOE-BIXBY RD	58+44, 42' LT	58+55, 53' LT				1																	
483	IC-5	NOE-BIXBY RD	58+54, 45' LT	58+55, 53' LT	8																				
483	TC-1	NOE-BIXBY RD	58+55, 53' LT									2	1	1											
483	IC-3	NOE-BIXBY RD	62+76, 33' LT			150																			
SHEET TOTAL					8	4334	2	2	3726	2	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

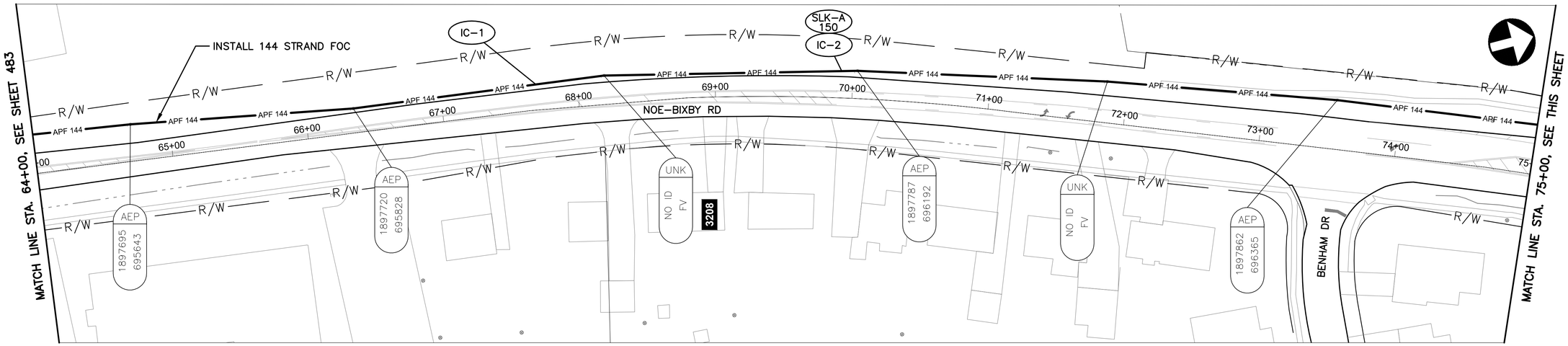
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PID NUMBER: 14522

NOE–BIXBY RD. BTW STA. 26+00 & 64+00
INTS SIG4240, SIG4825

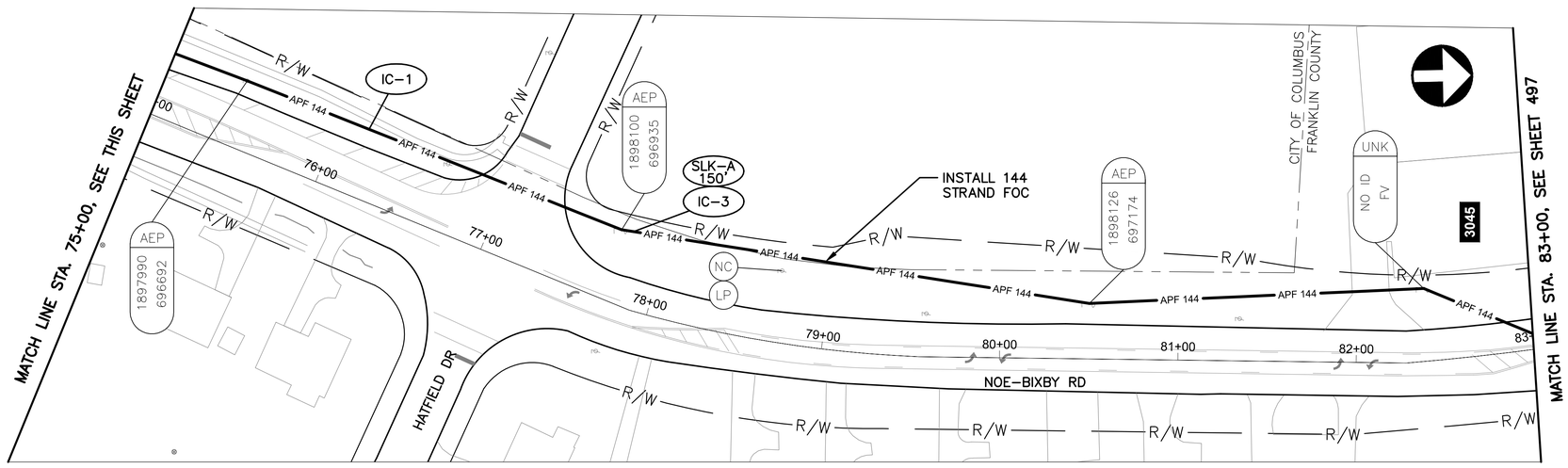
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

484
911

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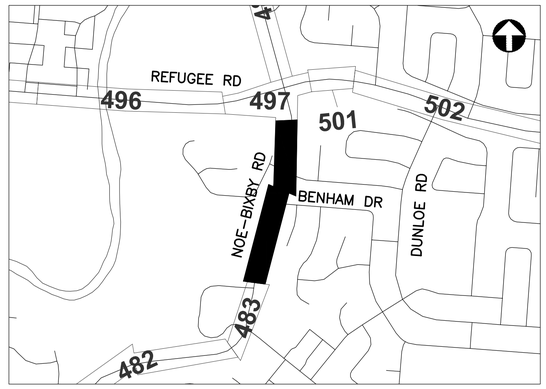
NOE-BIXBY RD BETWEEN STATION 64+00 AND 75+00



NOE-BIXBY RD BETWEEN STATION 75+00 AND 83+00

NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

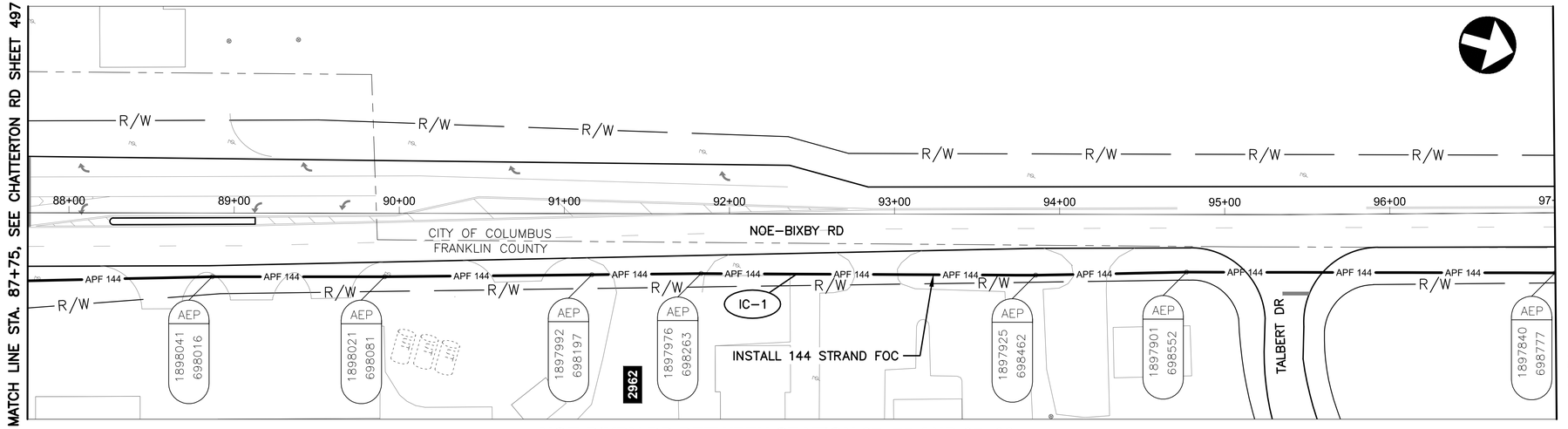
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PID NUMBER: 14522

INTERCONNECT PLAN
NOE-BIXBY RD BETWEEN STA. 64+00 AND 83+00

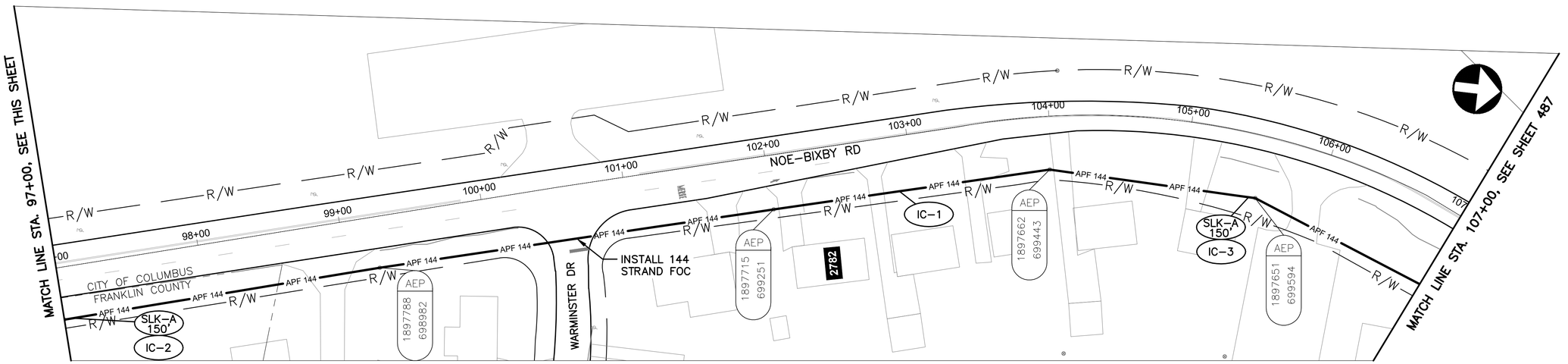
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

485
911

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NOE-BIXBY RD BETWEEN STATION 87+75 AND 97+00



NOE-BIXBY RD BETWEEN STATION 97+00 AND 107+00

NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEET 615 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

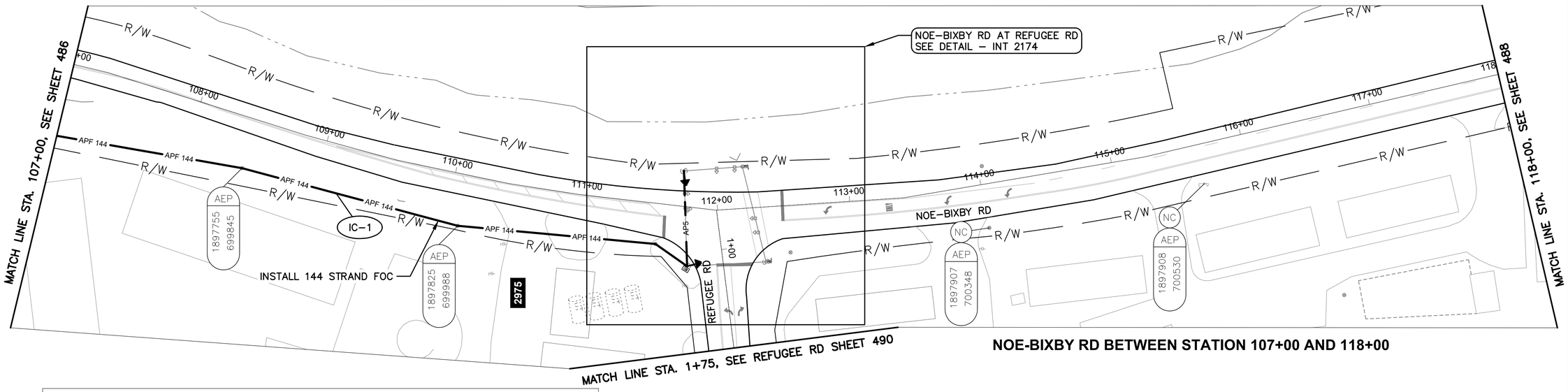
HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

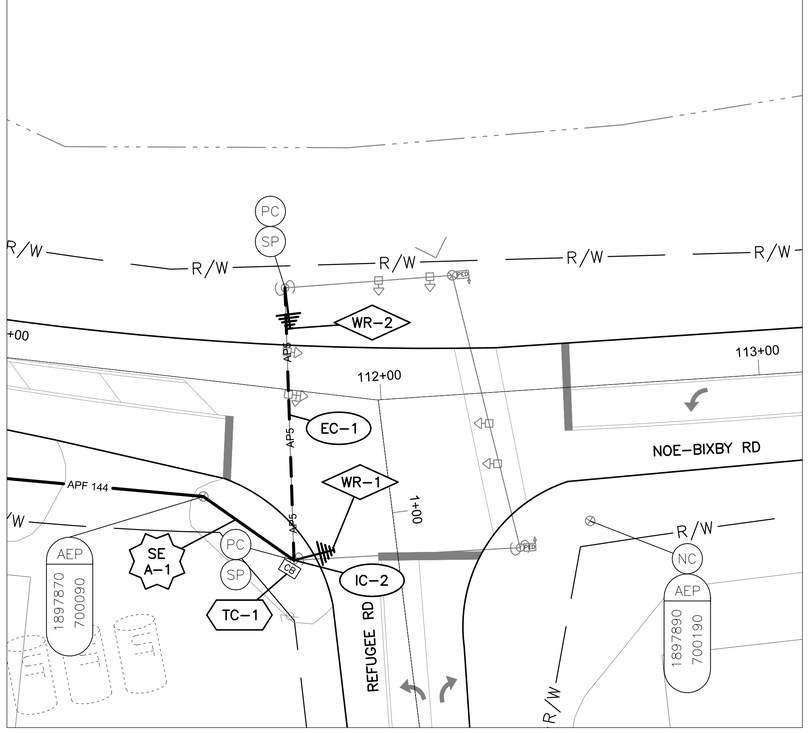
INTERCONNECT PLAN
NOE–BIXBY RD BETWEEN STA. 87+75 AND 107+00

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

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NOE-BIXBY RD BETWEEN STATION 107+00 AND 118+00



DETAIL - INT 2174

0 20 40
HORIZONTAL SCALE IN FEET

INT 2174 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 488 INT. 2191 – NOE–BIXBY ROAD AT CARBONDALE DRIVE

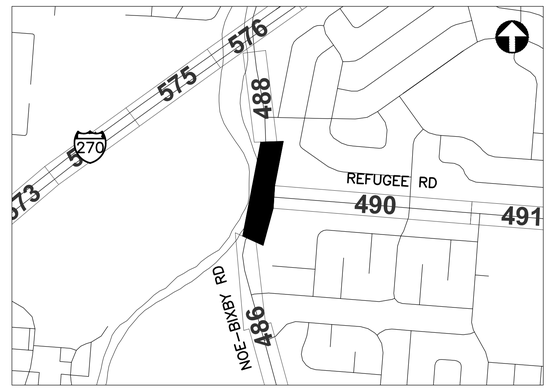
PROPOSED WIRELESS SEE SHEET 491 INT. 2175 – REFUGEE ROAD AT DENMARK ROAD

NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEETS 615 & 840 FOR COMMUNICATION DETAILS.
3. CONTRACTOR TO VERIFY LINE OF SIGHT.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

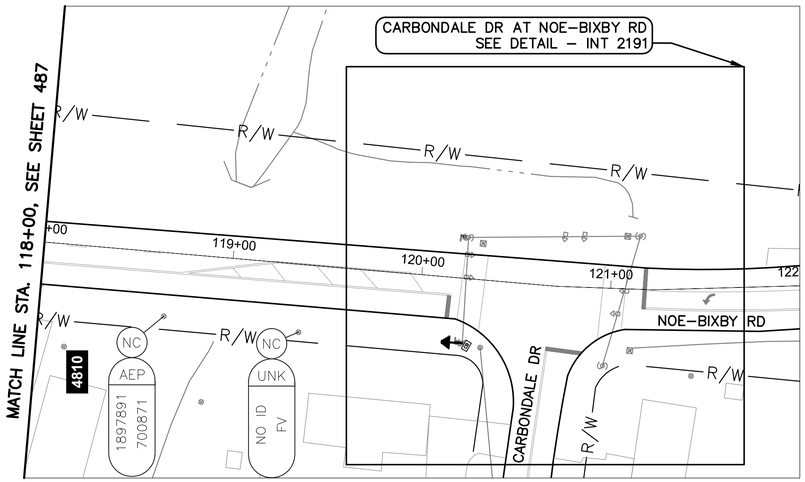
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PID NUMBER: 14522

INTERCONNECT PLAN
NOE–BIXBY RD BETWEEN STA. 107+00 AND 118+00, INT 2174

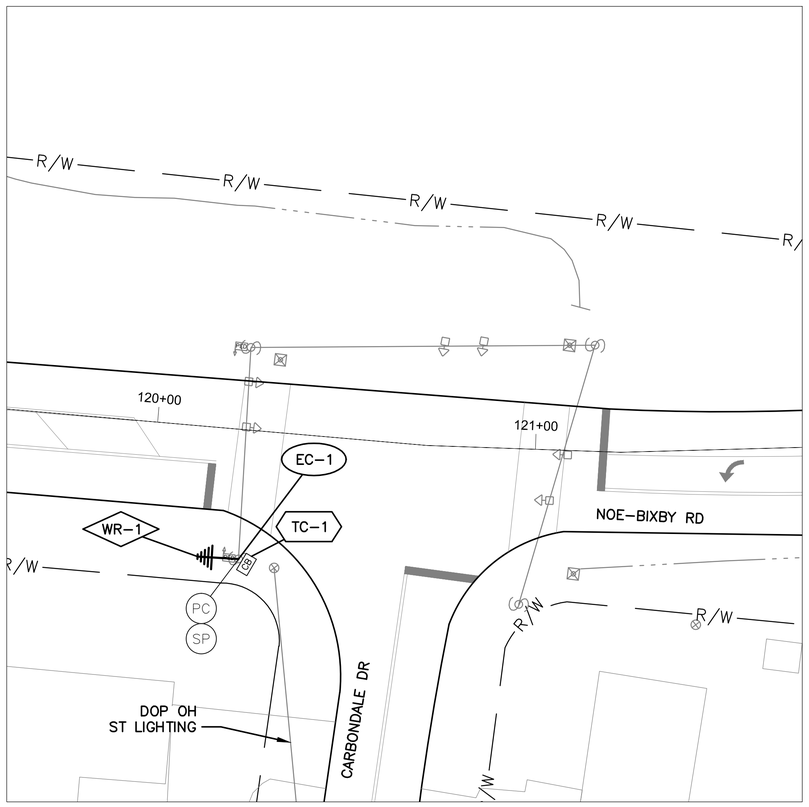
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

487
911

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NOE-BIXBY RD BETWEEN STATION 118+00 AND 122+00



DETAIL - INT 2191

0 20 40
HORIZONTAL
SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 487
INT. 2174 – NOE–BIXBY
ROAD AT REFUGEE ROAD

INT 2191 WITH
EXISTING SIGNAL
CONTROLLER

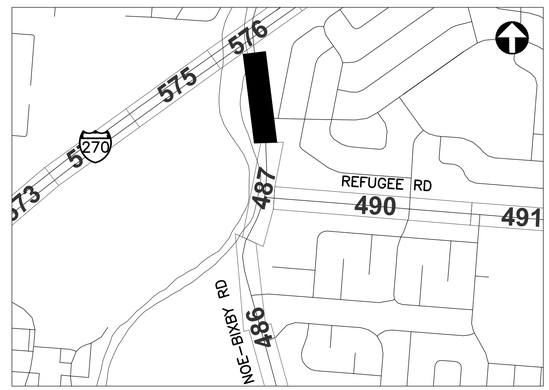
NOTES:

1. SEE SHEET 489 FOR QUANTITIES.
2. SEE SHEETS 615 & 842 FOR COMMUNICATION DETAILS.
3. CONTRACTOR TO VERIFY LINE OF SIGHT.

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

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



REFER TO SHEET 271 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
NOE–BIXBY RD BETWEEN STA. 118+00 AND 122+00, INT 2191

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

488
911

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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/ 200FT 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.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH
NOE-BIXBY RD. BETWEEN STA. 64+00 AND 83+00													
485	IC-1	NOE-BIXBY RD	64+00, 29' LT	83+00, 9' LT	1977			1977					
485	IC-2	NOE-BIXBY RD	69+91, 20' LT		150								
485	IC-3	NOE-BIXBY RD	77+75, 42' LT		150								
NOE-BIXBY RD. BETWEEN STA. 87+75 AND 107+00													
486	IC-1	NOE-BIXBY RD	87+75, 41' RT	107+00, 55' RT	1922			1922					
486	IC-2	NOE-BIXBY RD	97+06, 36' RT		150								
486	IC-3	NOE-BIXBY RD	105+50, 44' RT		150								
NOE-BIXBY RD. BETWEEN STA. 107+00 AND 118+00, INT 2174													
487	IC-1	NOE-BIXBY RD	107+00, 55' RT	111+82, 45' RT	497			497					
487	WR-1	NOE-BIXBY RD	111+71, 27' LT									1	
487	EC-1	NOE-BIXBY RD	111+71, 27' LT	111+82, 45' RT	73			73					
487	SE A-1	NOE-BIXBY RD	111+82, 45' RT		75	1							
487	IC-2	NOE-BIXBY RD	111+82, 45' RT	111+82, 45' RT			1						
487	TC-1	NOE-BIXBY RD	111+82, 45' RT						90	2	1		1
487	WR-2	NOE-BIXBY RD	111+82, 45' RT									1	
NOE-BIXBY RD. BETWEEN STA. 118+00 AND 122+00, INT 2191													
488	WR-1	NOE-BIXBY RD	120+22, 22' LT									1	
488	EC-1	NOE-BIXBY RD	120+22, 22' LT	120+24, 34' RT				57	57				
488	TC-1	NOE-BIXBY RD	120+24, 34' RT						45		1		1
SHEET TOTAL					5071	1	1	4526	265	2	2	3	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

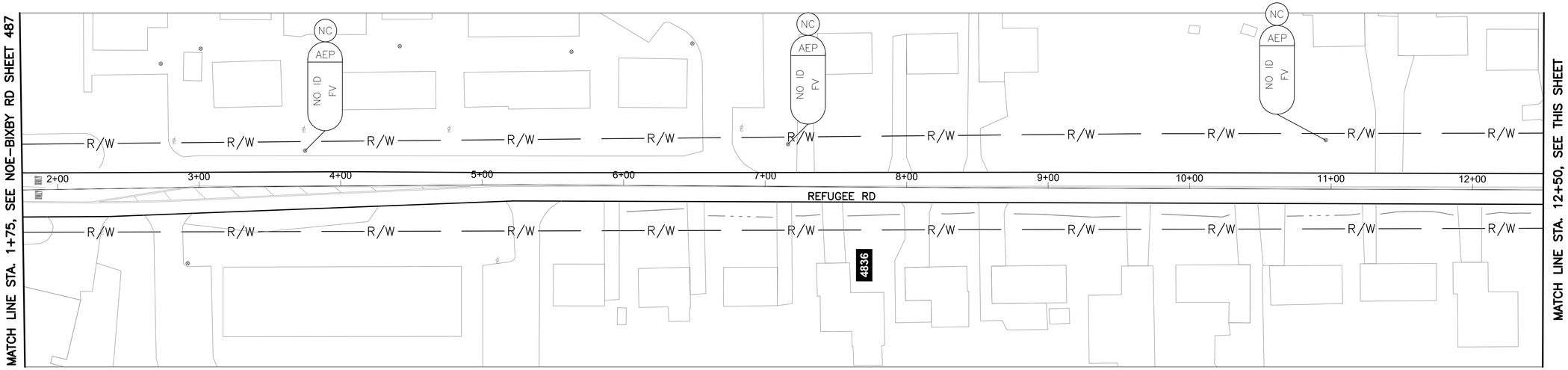
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PID NUMBER: 14522

NOE-BIXBY RD. BTW STA. 64+00 & 122+00
INTS 2174, 2191

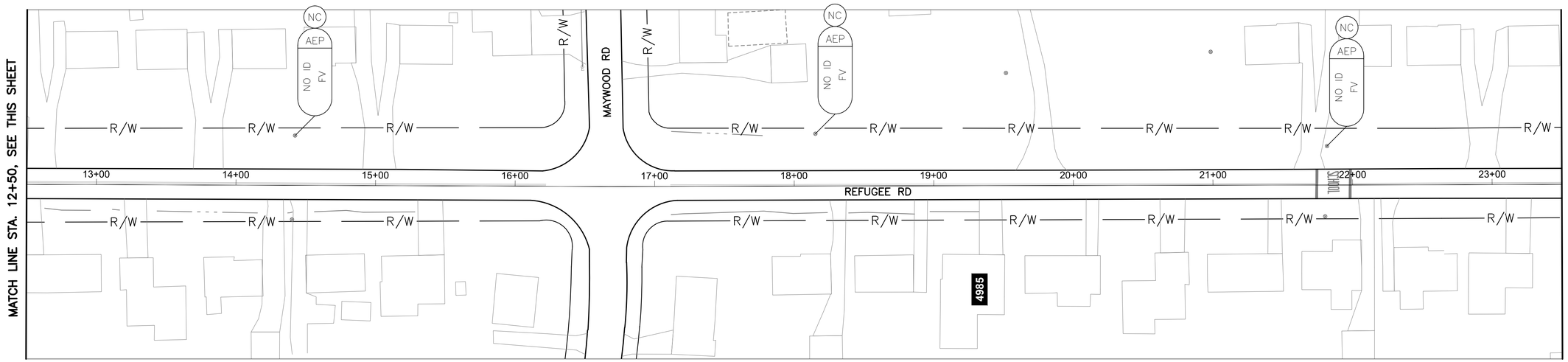
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

489
911

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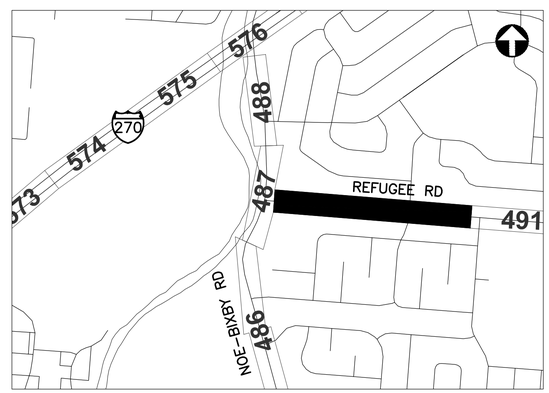
REFUGEE RD BETWEEN STATION 1+75 AND 12+50



REFUGEE RD BETWEEN STATION 12+50 AND 23+50

NOTES:

1. SEE SHEET 615 FOR COMMUNICATION DETAILS.
2. NO WORK ON THIS SHEET. FOR REFERENCE ONLY.



REFER TO SHEET 271 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

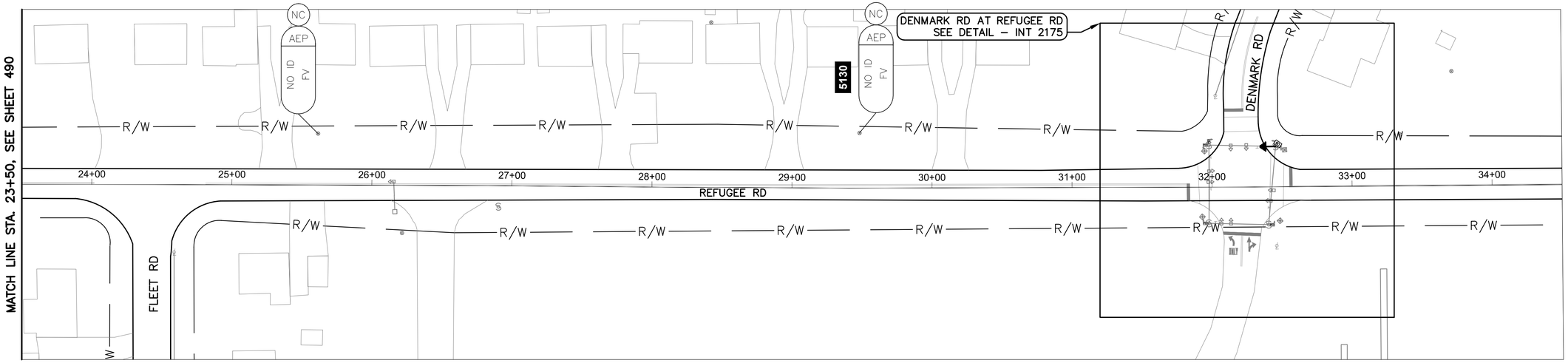
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PID NUMBER: 14522

INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 1+75 AND 23+50

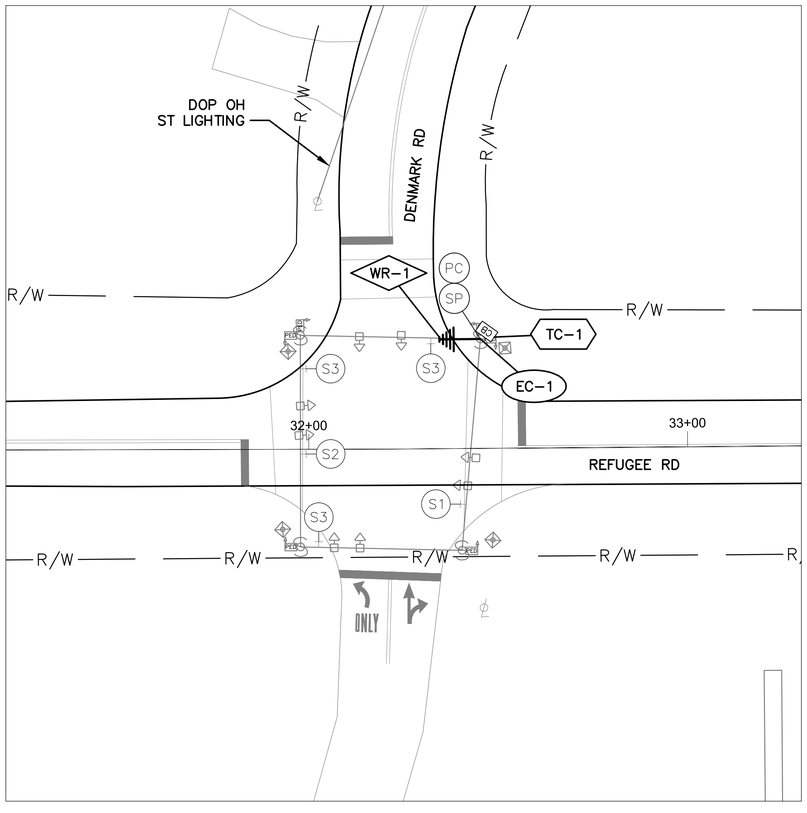
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

490
911

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REFUGEE RD BETWEEN STATION 23+50 AND 34+50



DETAIL - INT 2175

0 20 40
HORIZONTAL
SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 487
INT. 2174 – NOE–BIXBY
ROAD AT REFUGEE ROAD

INT 2175 WITH
EXISTING SIGNAL
CONTROLLER

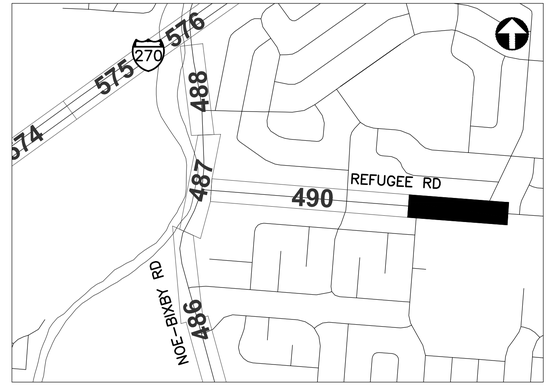
NOTES:

1. SEE SHEET 492 FOR QUANTITIES.
2. SEE SHEETS 615 & 841 FOR COMMUNICATION DETAILS.
3. CONTRACTOR TO VERIFY LINE OF SIGHT.

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

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



REFER TO SHEET 271 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
REUGEE RD BETWEEN STA. 23+50 AND 34+50, INT 2175

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

491
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER
			FT		FT	EACH	EACH	EACH
REFUGEE RD. BETWEEN STA. 23+50 AND 34+50, INT 2175								
491	WR-1	REFUGEE RD	32+45, 29' LT				1	
491	EC-1	REFUGEE RD	32+45, 29' LT		45			
491	TC-1	REFUGEE RD	32+45, 29' LT			1		1
SHEET TOTAL					45	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

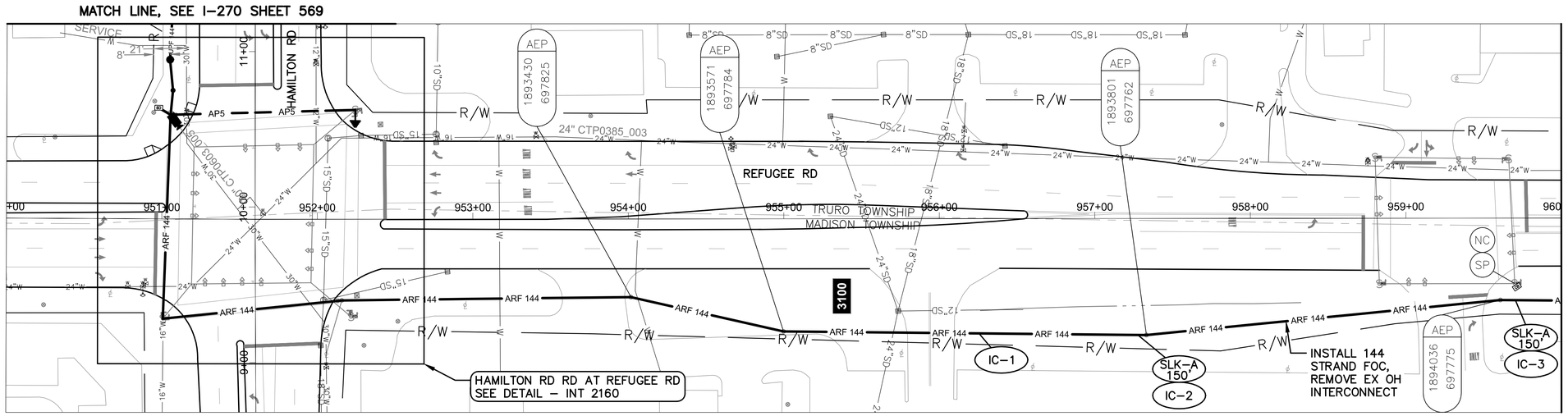
CIP: 540007–100005
PID NUMBER: 14522

REFUGEE RD. BTW STA. 23+50 & 34+50
INT 2175

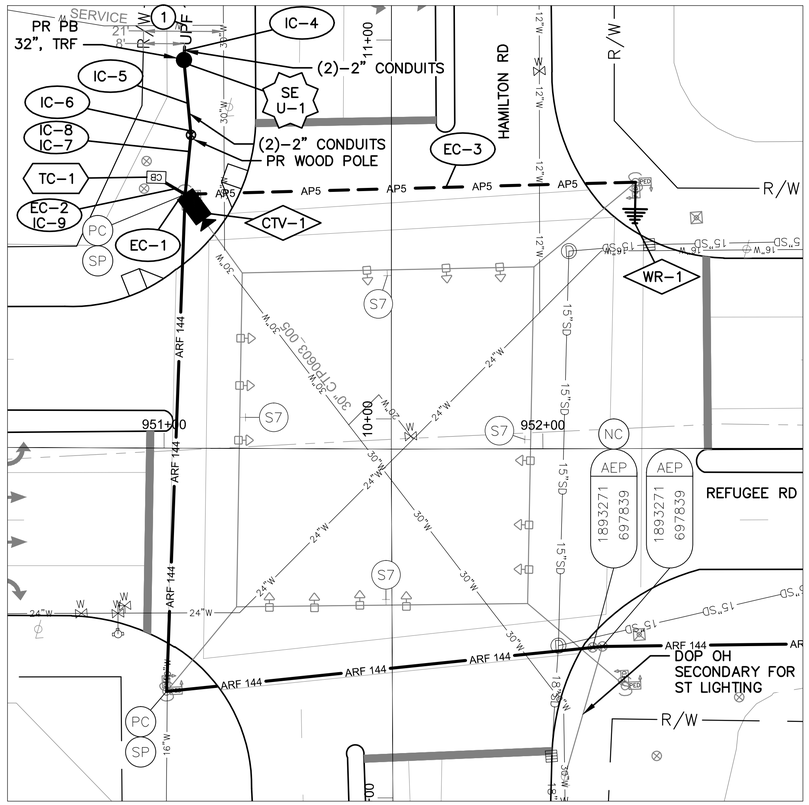
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

492
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_REFUGEE_EAST_INTERCONNECT_QUANTITIES.dwg – REFUGEE_EAST layout ~ last saved by: qburch 10/29/2014 03:20pm ~ printed 05/08/2017 11:18pm



REFUGEE RD BETWEEN STATION 950+00 AND 960+00



DETAIL - INT 2160

0 20 40
HORIZONTAL SCALE IN FEET

INT 2160 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS
SEE SHEET 494
INT. 2194 – HAMILTON ROAD AT WINCHESTER PIKE

NOTES:

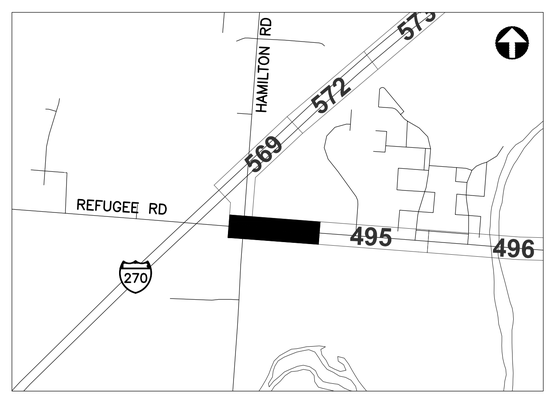
1. SEE SHEETS 498 & 499 FOR QUANTITIES.
2. SEE SHEETS 615 & 844 FOR COMMUNICATION DETAILS.
3. COIL EXTRA FOC FOR FUTURE SIGNAL TIE-IN AT INTERSECTION AT STATION 959+00 ON REFUGEE RD.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

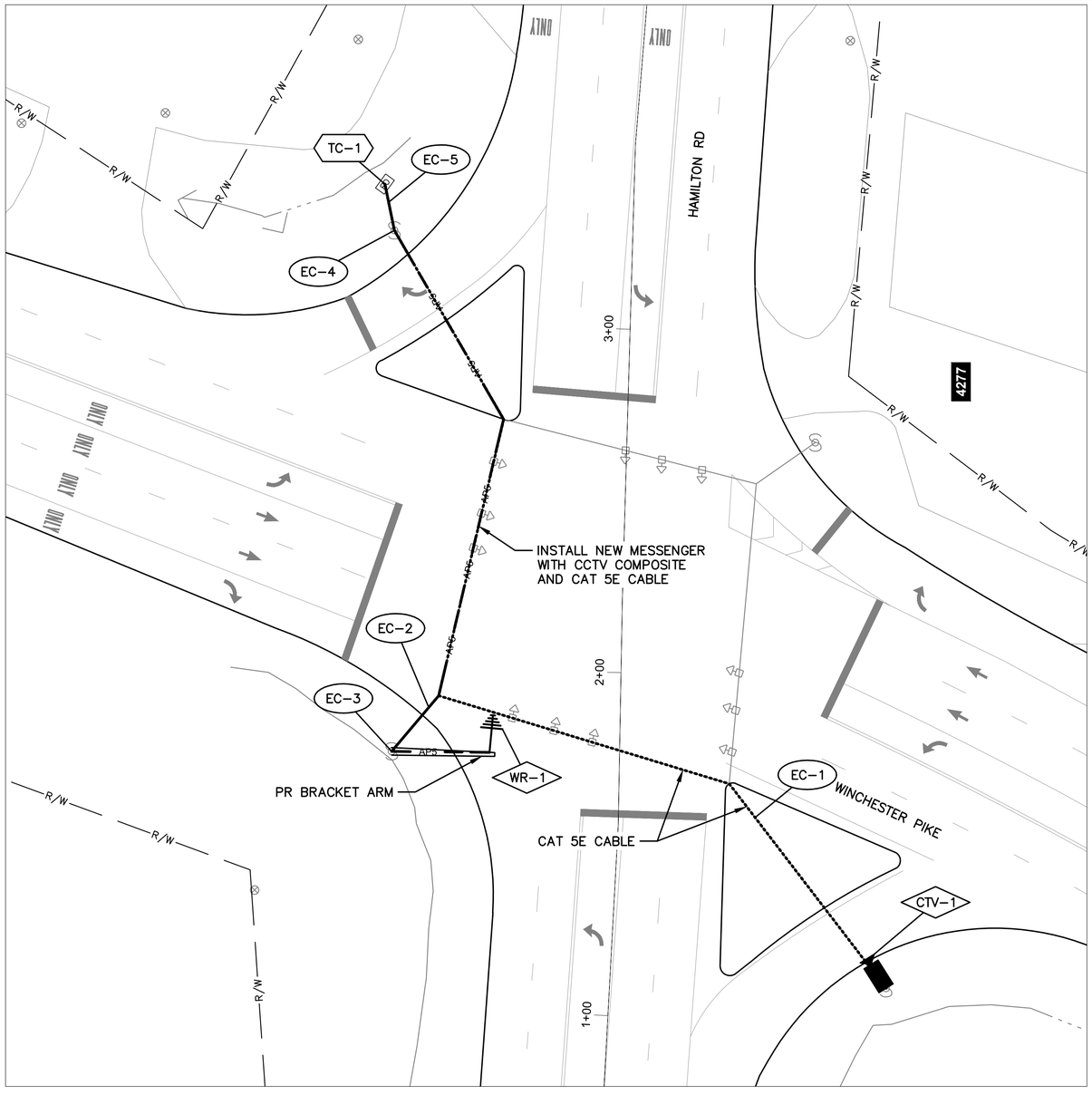
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 950+00 AND 960+00, INT 2160

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

493
911

2953-E

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHATTERTON_INTERCONNECT.dwg – CHATTERTON 1 layout ~ last saved by: sdlowry 05/08/2017 06:41pm ~ printed 05/08/2017 11:20pm



DETAIL - INT 2194

0 20 40
HORIZONTAL SCALE IN FEET

PROPOSED WIRELESS
SEE SHEET 493
INT. 2160 – HAMILTON ROAD AT REFUGEE ROAD

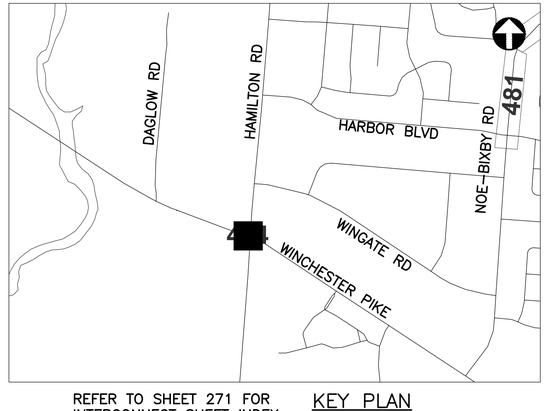
INT 2194 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEETS 498 & 499 FOR QUANTITIES.
2. SEE SHEETS 615 & 845 FOR COMMUNICATION DETAILS.

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 20 40
HORIZONTAL SCALE IN FEET

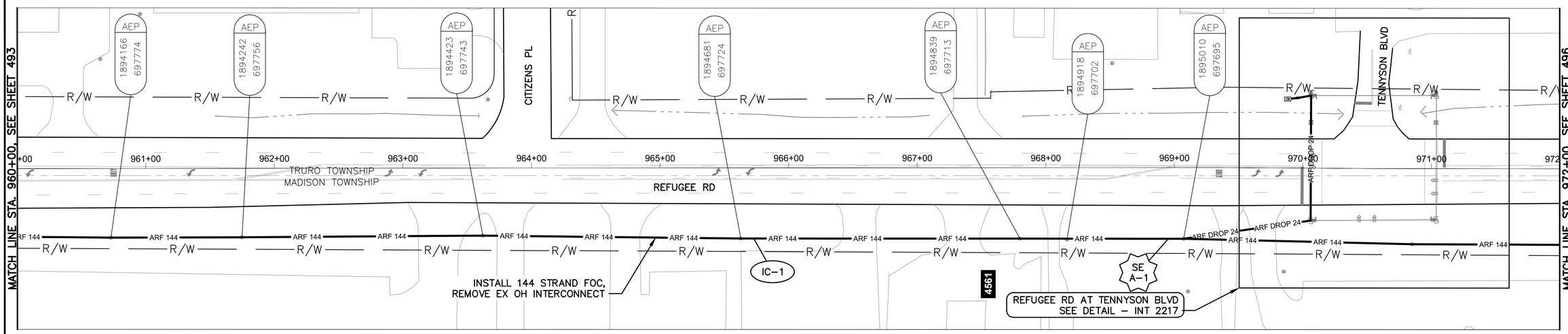
CCTV AND WIRELESS INTERCONNECT PLAN
INT 2194 – HAMILTON RD & WINCHESTER PIKE

CIP: 540007-100005
PID NUMBER: 14522

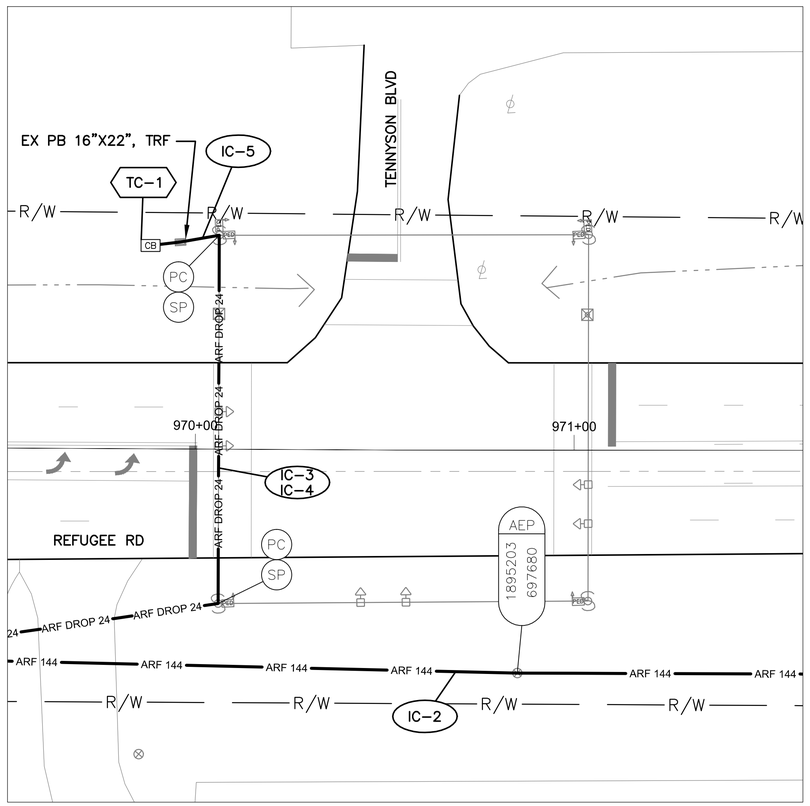
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS-BUILT

494
911

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REFUGEE RD BETWEEN STATION 960+00 AND 972+00



DETAIL - INT 2217

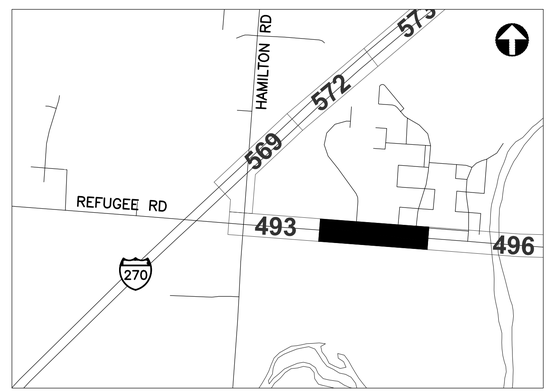
0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEETS 498 & 499 FOR QUANTITIES.
2. SEE SHEETS 615 & 843 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

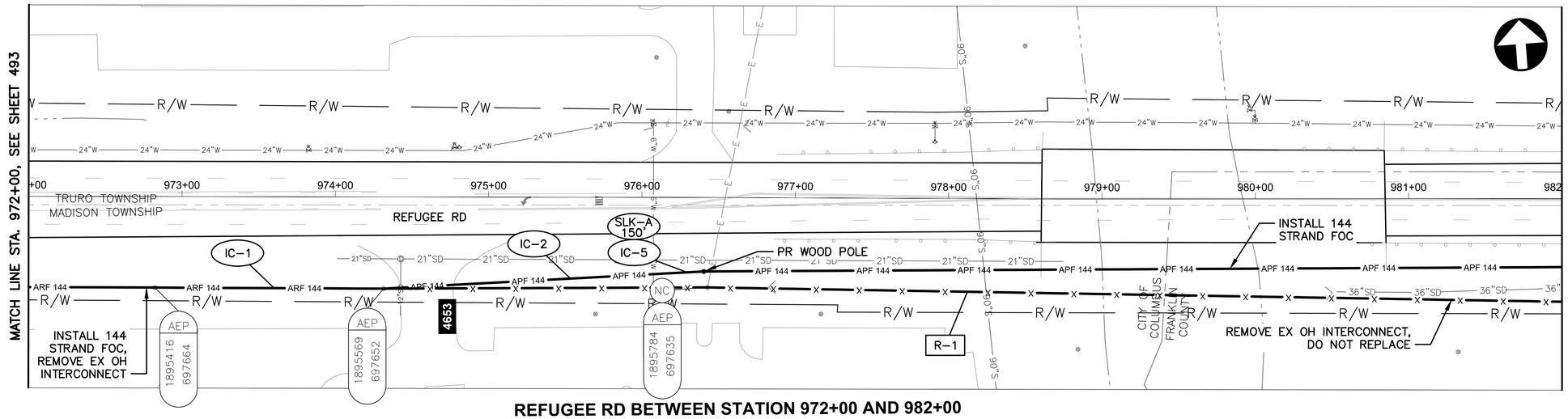
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 960+00 AND 972+00, INT 2217

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

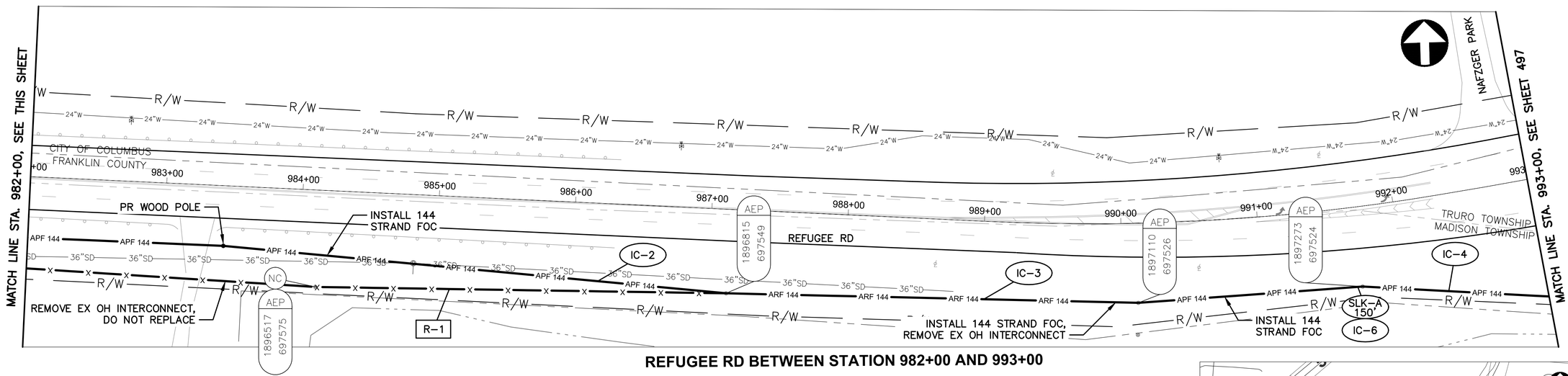
495
911

2953-E

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHATTERTON_INTERCONNECT.dwg – CHATTERTON 1A layout ~ last saved by: sdlowry 05/08/2017 06:41pm ~ printed 05/08/2017 11:21pm



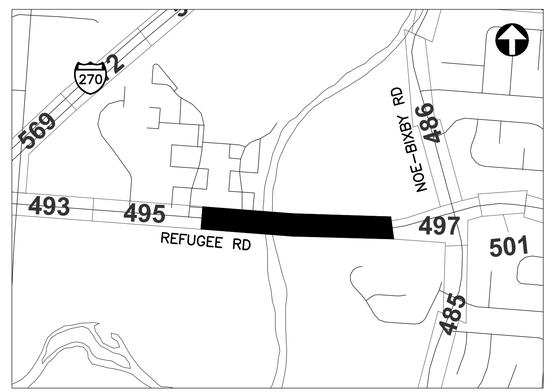
REFUGEE RD BETWEEN STATION 972+00 AND 982+00



REFUGEE RD BETWEEN STATION 982+00 AND 993+00

NOTES:

1. SEE SHEETS 498 & 499 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

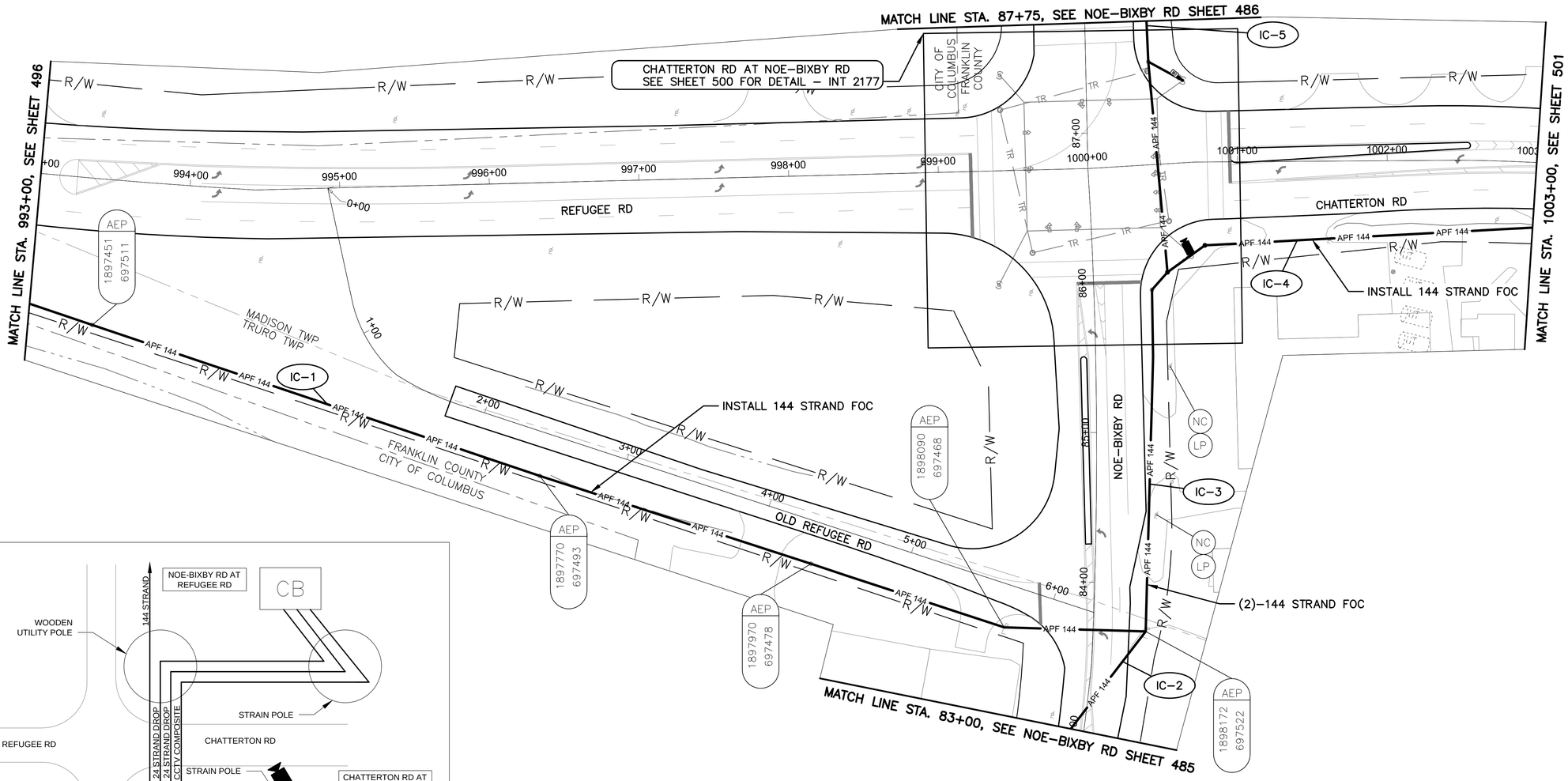
INTERCONNECT PLAN
REFUGEE RD BETWEEN STA. 972+00 AND 993+00

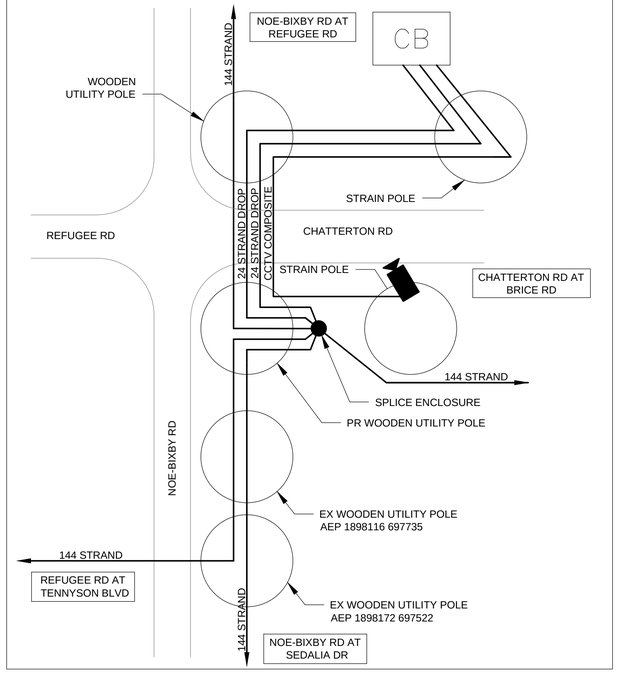
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

2953-E

496
911

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CABLE SCHEMATIC
NOT TO SCALE

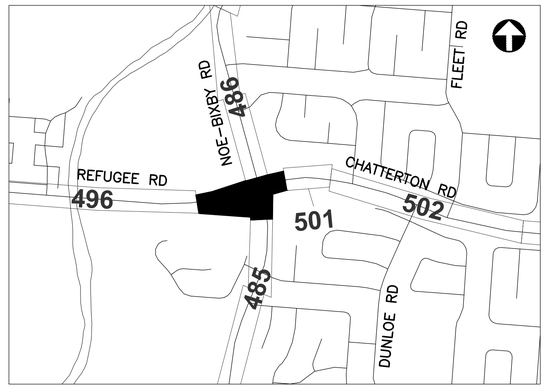
REFUGEE RD/CHATTERTON RD BETWEEN STATION 993+00 AND 1003+00

NOTES:

1. SEE SHEETS 498 & 499 FOR QUANTITIES.
2. SEE SHEETS 615 & 839 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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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 993+00 AND 1003+00, INT 2177

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

2953-E

497
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632	632	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 2", 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.: 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.: 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.: CAT 5E CABLE, OUTDOOR RATED	SIGNALIZATION, MISC.: CCTV COMPOSITE CABLE	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE
			FROM	TO	FT	EACH	FT	FT	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH
REFUGEE RD. BETWEEN STA. 950+00 AND 960+00, INT 2160																								
493	IC-8	REFUGEE RD	950+97, 71' LT	951+07, 102' LT													1							
493	TC-1	REFUGEE RD	950+97, 71' LT																	10	10			2
493	EC-2	REFUGEE RD	950+97, 71' LT	951+05, 67' LT																10	10			
493	IC-9	REFUGEE RD	950+97, 71' LT	951+05, 67' LT	10																			
493	IC-1	REFUGEE RD	951+05, 67' LT	960+00, 53' RT								1051	1035						1051					
493	IC-7	REFUGEE RD	951+05, 67' LT	951+07, 82' RT															16					
493	EC-1	REFUGEE RD	951+05, 67' LT																	35	35			
493	CTV-1	REFUGEE RD	951+05, 67' LT																			1		
493	EC-3	REFUGEE RD	951+05, 67' LT	952+24, 70' LT															121	121				
493	IC-6	REFUGEE RD	951+07, 82' RT								2	35										1		
493	SE U-1	REFUGEE RD	951+07, 102' LT						1			150			1									
493	IC-5	REFUGEE RD	951+07, 82' RT	951+07, 102' LT			40			20														
493	IC-4	REFUGEE RD	951+07, 102' LT	951+07, 126' LT				56				14												
493	WR-1	REFUGEE RD	952+24, 70' LT																					
493	IC-2	REFUGEE RD	957+27, 75' RT									150												
493	IC-3	REFUGEE RD	959+71, 53' RT									150												
HAMILTON RD. AT WINCHESTER PIKE, INT 2194																								
494	EC-1	HAMILTON RD	1+12, 80' RT	3+40, 73' LT																	309			
494	CTV-1	HAMILTON RD	1+12, 80' RT																			1		
494	EC-3	HAMILTON RD	1+75, 66' LT			1																		
494	WR-1	HAMILTON RD	1+76, 38' LT																					
494	EC-2	HAMILTON RD	1+76, 38' LT	3+26, 69' LT																196				
494	EC-4	HAMILTON RD	3+26, 69' LT																	35	35			
494	EC-5	HAMILTON RD	3+26, 69' LT	3+40, 73' LT	14															14	14			
494	TC-1	HAMILTON RD	3+40, 73' LT																	10	10			
REFUGEE RD. BETWEEN STA. 960+00 AND 972+00, INT 2217																								
495	IC-1	REFUGEE RD	960+00, 53' RT	969+07, 55' RT								921	907						921					
495	IC-2	REFUGEE RD	969+07, 55' RT	972+00, 59' RT								297	293						297					
495	SE A-1	REFUGEE RD	969+07, 55' RT										150			1								
495	IC-3	REFUGEE RD	969+07, 55' RT	970+06, 36' LT									176						179					
495	IC-4	REFUGEE RD	969+07, 55' RT	969+88, 55' LT														1						
495	TC-1	REFUGEE RD	969+88, 55' LT																					2
495	IC-5	REFUGEE RD	969+88, 55' LT	970+06, 36' LT	39									39										
REFUGEE RD. BETWEEN STA. 972+00 AND 993+00																								
496	IC-1	REFUGEE RD	972+00, 59' RT	974+32, 60' RT								236	232						236					
496	IC-2	REFUGEE RD	974+32, 60' RT	987+13, 62' RT								1301							1301				2	
496	R-1	REFUGEE RD	974+32, 60' RT	987+13, 62' RT									1282											
496	IC-5	REFUGEE RD	976+29, 49' RT									150												
496	IC-3	REFUGEE RD	987+13, 62' RT	990+11, 58' RT								307	301						307					
496	IC-4	REFUGEE RD	990+11, 58' RT	993+00, 87' RT								307							307					
496	IC-6	REFUGEE RD	991+67, 58' RT									150												
REFUGEE RD./ CHATTERTON RD. BETWEEN STA. 993+00 AND 1003+00																								
497	IC-1	CHATTERTON RD	993+00, 87' RT	1000+38, 311' RT								793							793					
497	IC-2	CHATTERTON RD	999+88, 374' RT	1000+38, 311' RT								83							83					
497	IC-3	CHATTERTON RD	1000+38, 311' RT	1000+51, 63' RT								512							256					
497	IC-4	CHATTERTON RD	1000+51, 63' RT	1003+00, 44' RT								290							290					
497	IC-5	CHATTERTON RD	1000+41, 96 LT	1000+51, 63' RT								162							162					
SHEET TOTAL					63	1	40	56	1	20	2	7059	4376	39	1	1	1	1	6320	431	423	2	3	4

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

2953-E

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

BTW STA. 950+00 & 993+00, INTS 2160, 2217
CHATTERTON RD. BTW STA. 993+00 & 1003+00

1 OF 2 – REFUGEE RD. BTW STA. 950+00 & 993+00, INTS 2160, 2217
HAMILTON RD. INT 2194, CHATTERTON RD. BTW STA. 993+00 & 1003+00

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

498
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: SPREAD SPECTRUM RADIO EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH
REFUGEE RD. BETWEEN STA. 950+00 AND 960+00, INT 2160							
493	IC-8	REFUGEE RD	950+97, 71' LT	951+07, 102' LT			
493	TC-1	REFUGEE RD	950+97, 71' LT		1		
493	EC-2	REFUGEE RD	950+97, 71' LT	951+05, 67' LT			
493	IC-9	REFUGEE RD	950+97, 71' LT	951+05, 67' LT			
493	IC-1	REFUGEE RD	951+05, 67' LT	960+00, 53' RT			
493	IC-7	REFUGEE RD	951+05, 67' LT	951+07, 82' RT			
493	EC-1	REFUGEE RD	951+05, 67' LT				
493	CTV-1	REFUGEE RD	951+05, 67' LT				
493	EC-3	REFUGEE RD	951+05, 67' LT	952+24, 70' LT			
493	IC-6	REFUGEE RD	951+07, 82' RT				
493	SE U-1	REFUGEE RD	951+07, 102' LT				
493	IC-5	REFUGEE RD	951+07, 82' RT	951+07, 102' LT			
493	IC-4	REFUGEE RD	951+07, 102' LT	951+07, 126' LT			
493	WR-1	REFUGEE RD	952+24, 70' LT				
493	IC-2	REFUGEE RD	957+27, 75' RT				
493	IC-3	REFUGEE RD	959+71, 53' RT				
HAMILTON RD. AT WINCHESTER PIKE., INT 2194							
494	EC-1	HAMILTON RD	1+12, 80' RT	3+40, 73' LT			
494	CTV-1	HAMILTON RD	1+12, 80' RT				
494	EC-3	HAMILTON RD	1+75, 66' LT				
494	WR-1	HAMILTON RD	1+76, 38' LT			1	
494	EC-2	HAMILTON RD	1+76, 38' LT	3+26, 69' LT			
494	EC-4	HAMILTON RD	3+26, 69' LT				
494	EC-5	HAMILTON RD	3+26, 69' LT	3+40, 73' LT			
494	TC-1	HAMILTON RD	3+40, 73' LT		1		
REFUGEE RD. BETWEEN STA. 960+00 AND 972+00, INT 2217							
495	IC-1	REFUGEE RD	960+00, 53' RT	969+07, 55' RT			
495	IC-2	REFUGEE RD	969+07, 55' RT	971+00, 59' RT			
495	SE A-1	REFUGEE RD	969+07, 55' RT				
495	IC-3	REFUGEE RD	969+07, 55' RT	970+06, 36' LT			
495	IC-4	REFUGEE RD	969+07, 55' RT	969+88, 55' LT			
495	TC-1	REFUGEE RD	969+88, 55' LT		1	1	
495	IC-5	REFUGEE RD	969+88, 55' LT	970+06, 36' LT			
REFUGEE RD. BETWEEN STA. 972+00 AND 993+00							
496	IC-1	REFUGEE RD	971+00, 59' RT	974+32, 60' RT			
496	IC-2	REFUGEE RD	974+32, 60' RT	987+13, 62' RT			
496	R-1	REFUGEE RD	974+32, 60' RT	987+13, 62' RT			
496	IC-5	REFUGEE RD	976+29, 49' RT				
496	IC-3	REFUGEE RD	987+13, 62' RT	990+11, 58' RT			
496	IC-4	REFUGEE RD	990+11, 58' RT	993+00, 87' RT			
496	IC-6	REFUGEE RD	991+67, 58' RT				
REFUGEE RD./ CHATTERTON RD. BETWEEN STA. 993+00 AND 1003+00							
497	IC-1	CHATTERTON RD	993+00, 87' RT	1000+38, 311' RT			
497	IC-2	CHATTERTON RD	999+88, 374' RT	1000+38, 311' RT			
497	IC-3	CHATTERTON RD	1000+38, 311' RT	1000+51, 63' RT			
497	IC-4	CHATTERTON RD	1000+51, 63' RT	1003+00, 44' RT			
497	IC-5	CHATTERTON RD	1000+41, 96 LT	1000+51, 63' RT			
SHEET TOTAL					3	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

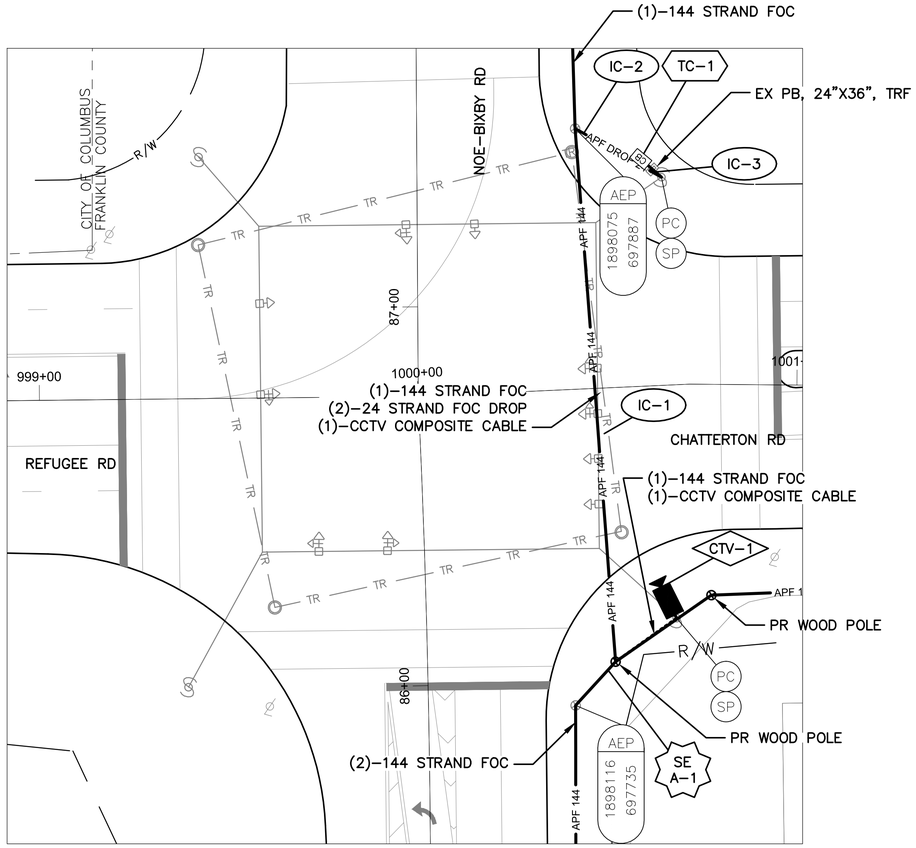
BTW STA. 950+00 & 993+00, INTS 2160, 2217
CHATTERTON RD. BTW STA. 993+00 & 1003+00

2 OF 2 – REFUGEE RD. BTW STA. 950+00 & 993+00, INTS 2160, 2217
HAMILTON RD. INT 2194, CHATTERTON RD. BTW STA. 993+00 & 1003+00

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

499
911

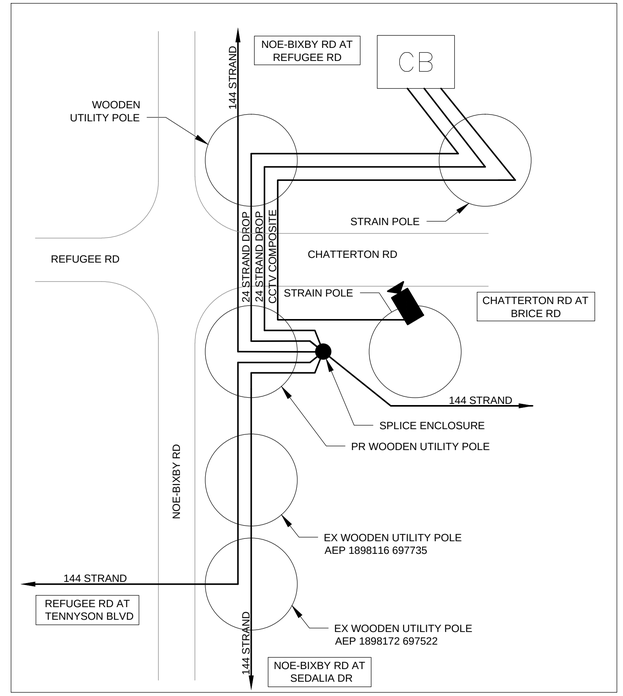
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DETAIL - INT 2177 (FKA SIG4245)

0 20 40

HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

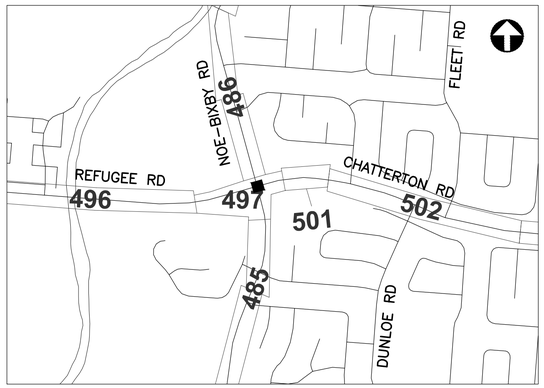
NOTES:

1. SEE SHEET 497 FOR INTERCONNECT.
2. SEE SHEET 506 FOR QUANTITIES.
3. SEE SHEETS 615 & 839 FOR COMMUNICATION DETAILS.
4. FOR THE SPLICE ENCLOSURE AT INT 2177, 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

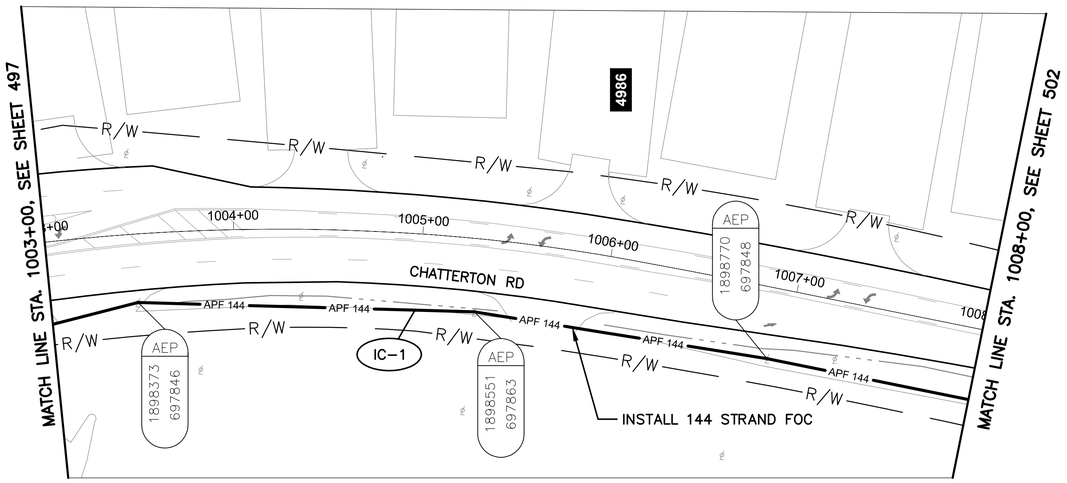
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT DETAILS
INT 2177 & NOE–BIXBY/REFUGEE/CHATTERTON CABLE SCHEMATIC

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

500
911

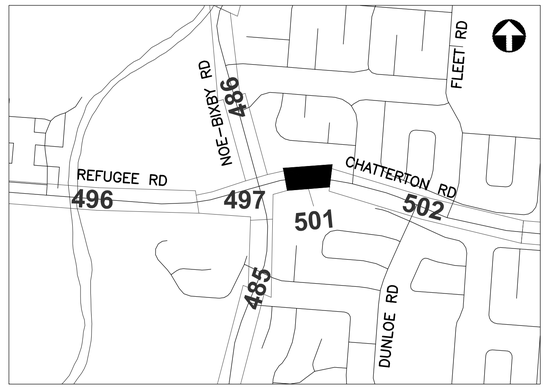
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CHATTERTON RD BETWEEN STATION 1003+00 AND 1008+00

NOTES:

1. SEE SHEET 506 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

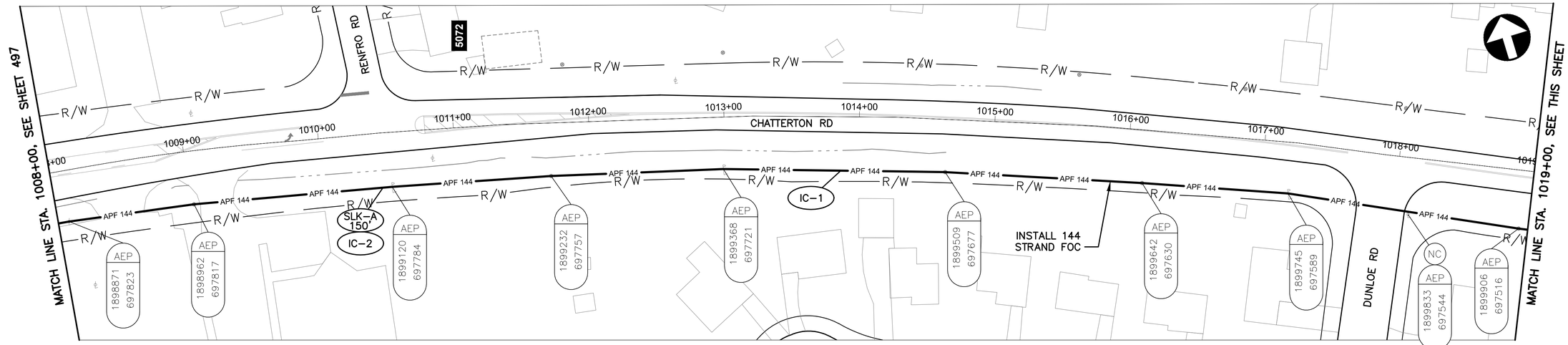
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 1003+00 AND 1008+00

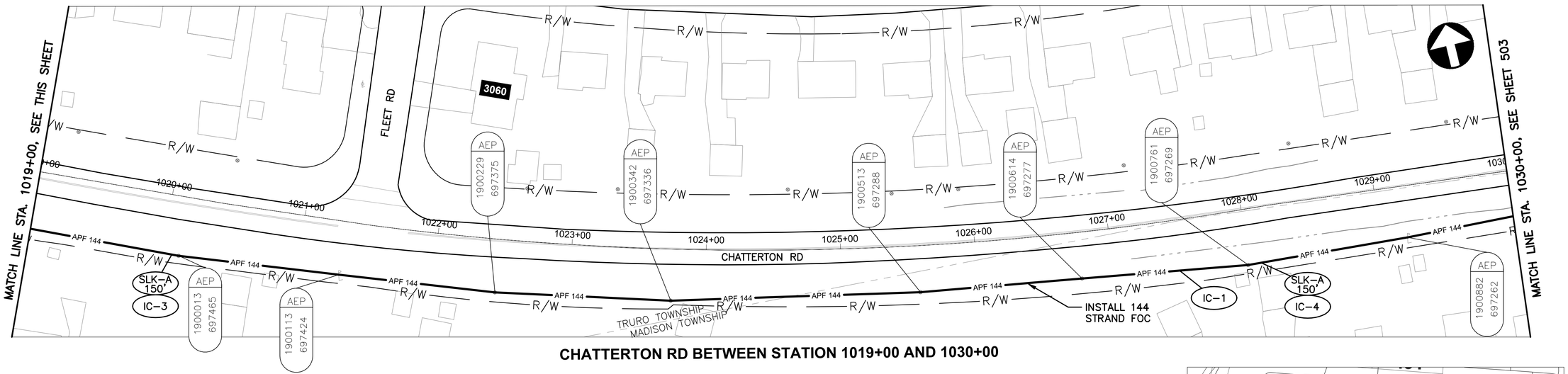
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

501
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHATTERTON_INTERCONNECT.dwg - CHATTERTON 3B layout ~ last saved by: sdlowry 05/08/2017 06:41pm ~ printed 05/08/2017 11:26pm



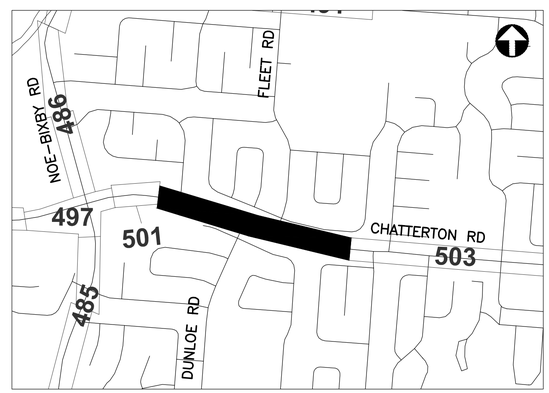
CHATTERTON RD BETWEEN STATION 1008+00 AND 1019+00



CHATTERTON RD BETWEEN STATION 1019+00 AND 1030+00

NOTES:

1. SEE SHEET 506 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.



REFER TO SHEET 271 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

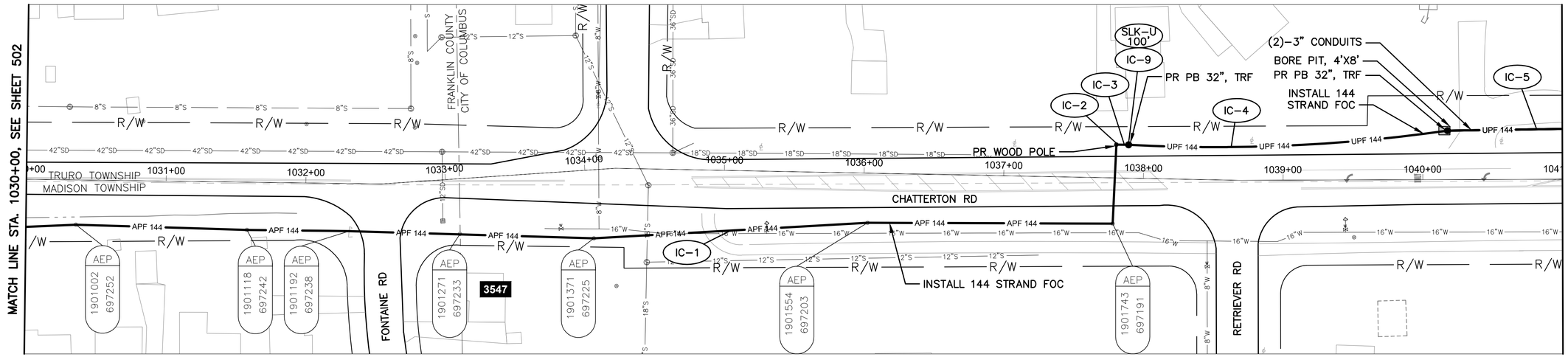
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PID NUMBER: 14522

INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 1008+00 AND 1030+00

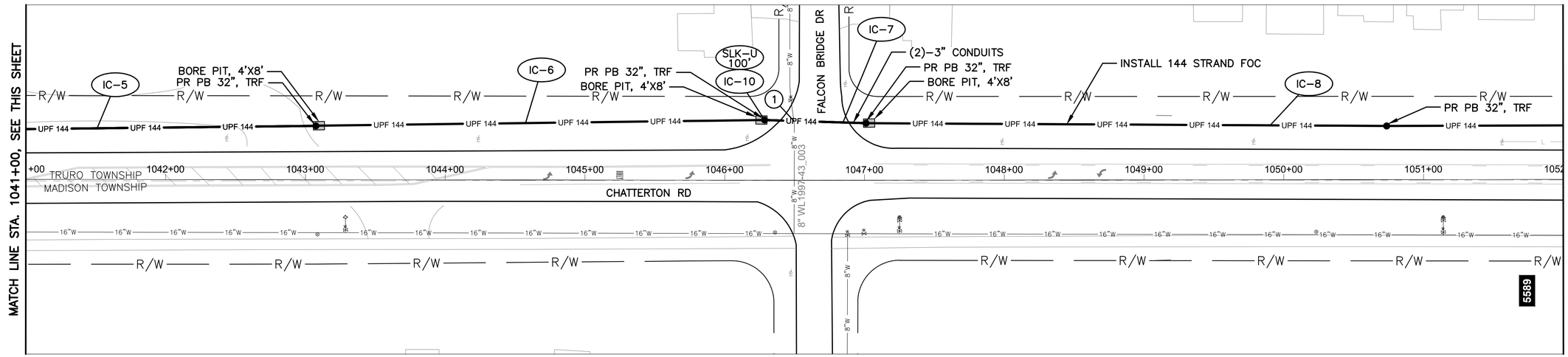
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

502
911

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CHATTERTON RD BETWEEN STATION 1030+00 AND 1041+00



CHATTERTON RD BETWEEN STATION 1041+00 AND 1052+00

NOTES:

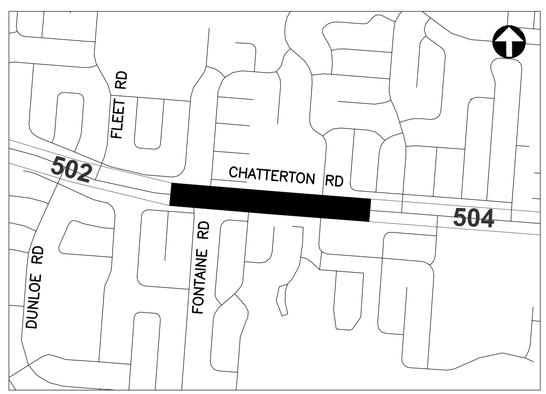
1. SEE SHEET 506 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

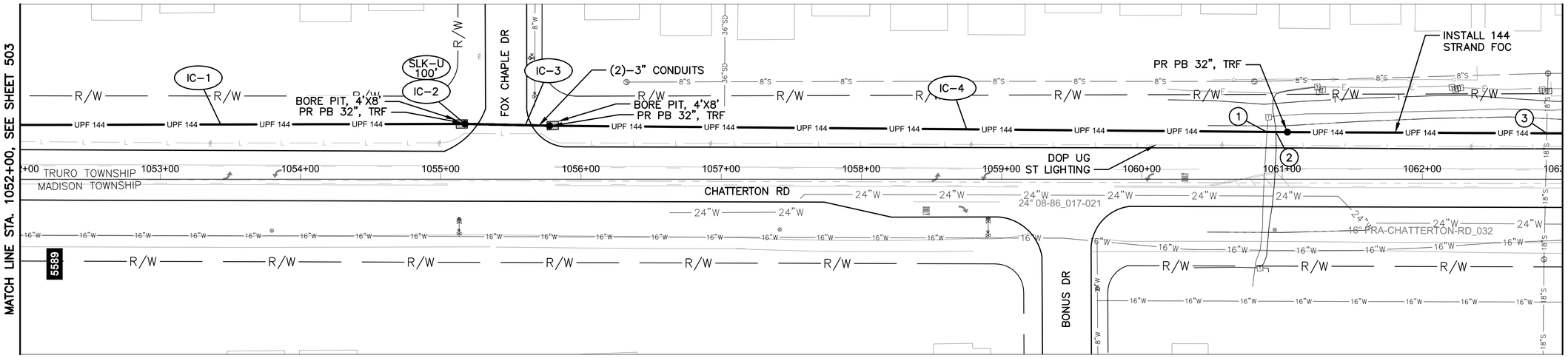
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PID NUMBER: 14522

INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 1030+00 AND 1052+00

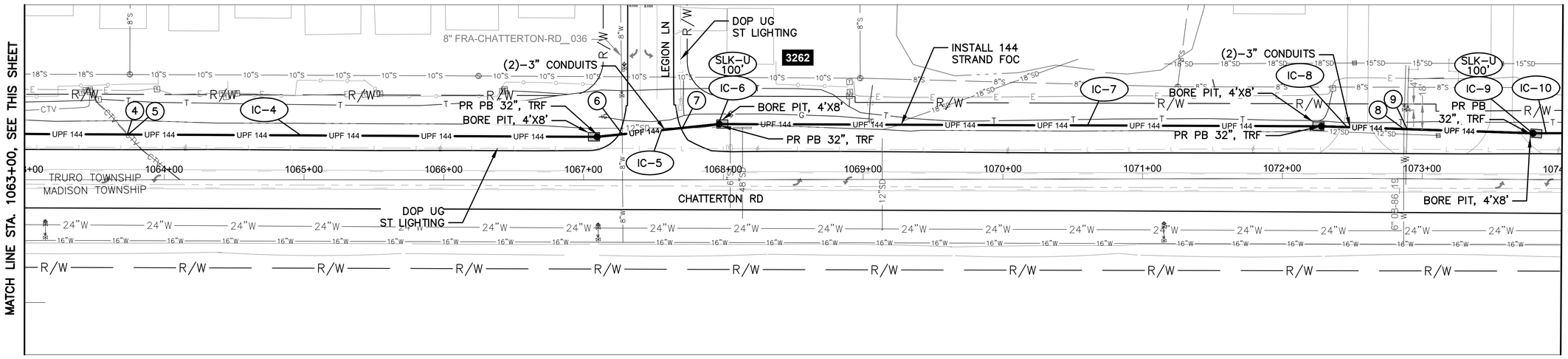
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

503
911

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CHATTERTON RD BETWEEN STATION 1052+00 AND 1063+00



CHATTERTON RD BETWEEN STATION 1063+00 AND 1074+00

NOTES:

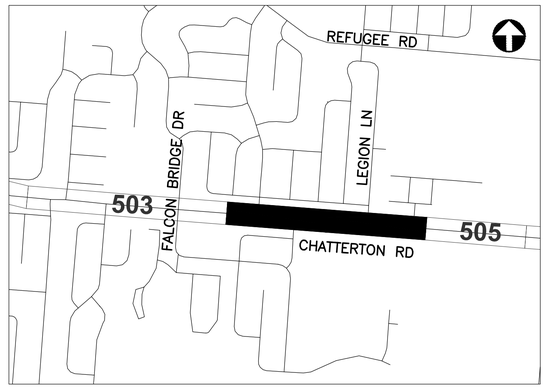
1. SEE SHEET 506 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

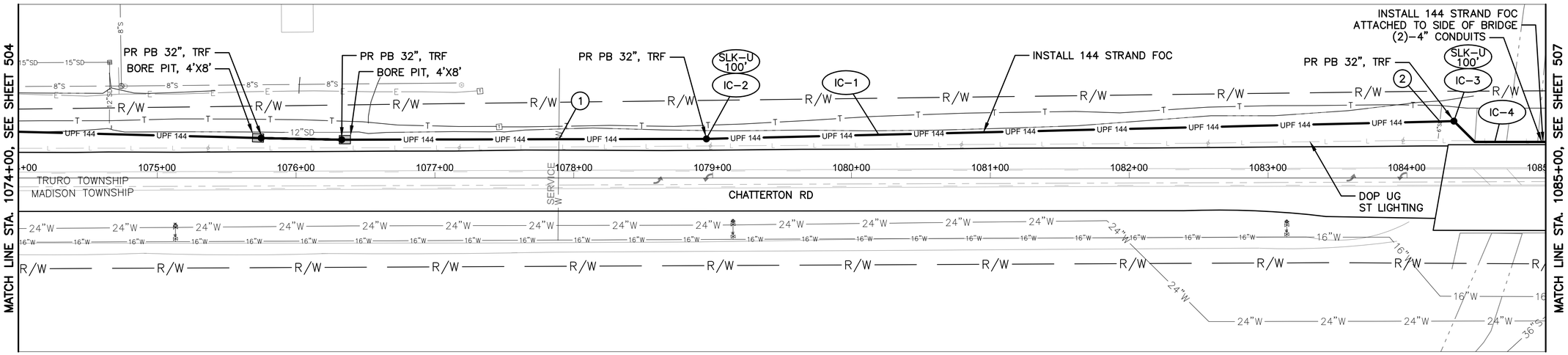
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PID NUMBER: 14522

INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 1052+00 AND 1074+00

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

504
911

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CHATTERTON RD BETWEEN STATION 1074+00 AND 1085+00

NOTES:

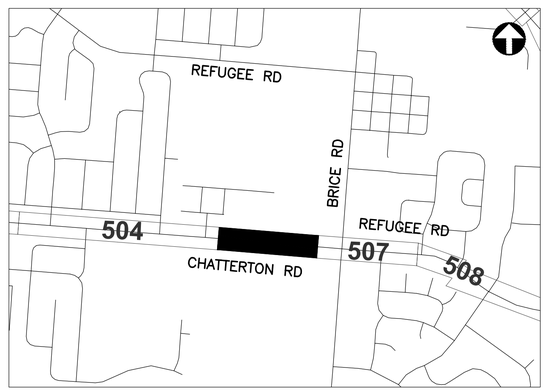
1. SEE SHEET 506 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 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
CHATTERTON RD BETWEEN STA. 1074+00 AND 1085+00

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

505
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, 2-3", 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	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, 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 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
CHATTERTON RD. AT NOE-BIXBY RD., INT SIG4245																				
500	IC-2	CHATTERTON RD	1000+44, 69' LT	1000+66, 55' LT												26				
500	SE A-1	CHATTERTON RD	1000+51, 63' RT										300	1			1			
500	IC-1	CHATTERTON RD	1000+51, 63' RT	1000+63, 59' LT											2					
500	TC-1	CHATTERTON RD	1000+63, 59' LT															4	1	
500	IC-3	CHATTERTON RD	1000+63, 59' LT	1000+66, 55' LT	5															
CHATTERTON RD. BETWEEN STA. 1003+00 AND 1008+00																				
501	IC-1	CHATTERTON RD	1003+00, 44' RT	1008+00, 38' RT									496			496				
CHATTERTON RD. BETWEEN STA. 1008+00 AND 1030+00																				
502	IC-1	CHATTERTON RD	1008+00, 38' RT	1030+00, 34' RT									2234			2234				
502	IC-2	CHATTERTON RD	1010+44, 40' RT										150							
502	IC-3	CHATTERTON RD	1020+06, 44' RT										150							
502	IC-4	CHATTERTON RD	1028+07, 41' RT										150							
CHATTERTON RD. BETWEEN STA. 1030+00 AND 1052+00																				
503	IC-1	CHATTERTON RD	1030+00, 34' RT	1037+80, 24' LT									848			848				
503	IC-2	CHATTERTON RD	1037+80, 24' LT									1	35				1			
503	IC-3	CHATTERTON RD	1037+80, 24' LT	1037+88, 24' LT		18					9		9							
503	IC-9	CHATTERTON RD	1037+88, 24' LT							1			100							
503	IC-4	CHATTERTON RD	1037+88, 24' LT	1040+17, 35' LT			229				229		229							
503	IC-5	CHATTERTON RD	1040+17, 35' LT	1043+07, 39' LT				580		2			290							
503	IC-6	CHATTERTON RD	1043+07, 39' LT	1046+28, 43' LT			320				320		320							
503	IC-7	CHATTERTON RD	1046+28, 43' LT	1047+01, 41' LT				146		1			73							
503	IC-10	CHATTERTON RD	1046+28, 43' LT							1			100							
503	IC-8	CHATTERTON RD	1047+01, 41' LT	1052+00, 39' LT			499			1	499		499							
CHATTERTON RD. BETWEEN STA. 1052+00 AND 1074+00																				
504	IC-1	CHATTERTON RD	1052+00, 39' LT	1055+17, 39' LT			317				317		317							
504	IC-2	CHATTERTON RD	1055+17, 39' LT							1			100							
504	IC-3	CHATTERTON RD	1055+17, 39' LT	1055+77, 38' LT				120		1			60							
504	IC-4	CHATTERTON RD	1055+77, 38' LT	1061+03, 34' LT			1132			1	1132		1132							
504	IC-5	CHATTERTON RD	1067+09, 31' LT	1067+97, 40' LT				176		1			88							
504	IC-6	CHATTERTON RD	1067+97, 40' LT							1			100							
504	IC-7	CHATTERTON RD	1067+97, 40' LT	1072+28, 37' LT			431				431		431							
504	IC-8	CHATTERTON RD	1072+28, 43' LT	1073+79, 33' LT				302		1			151							
504	IC-9	CHATTERTON RD	1073+79, 33' LT							1			100							
504	IC-10	CHATTERTON RD	1073+79, 33' LT	1074+00, 33' LT			21				21		21							
CHATTERTON RD. BETWEEN STA. 1074+00 AND 1085+00																				
505	IC-1	CHATTERTON RD	1074+00, 33' LT	1084+33, 41' LT			1034				1034		1034							
505	IC-2	CHATTERTON RD	1078+95, 39' LT							1			100							
505	IC-3	CHATTERTON RD	1084+33, 41' LT							1			100							
505	IC-4	CHATTERTON RD	1084+33, 41' LT	1085+00, 26' LT					144				72							
SHEET TOTAL					5	18	3983	1324	144	15	3992	1	9789	1	2	3604	2	4	1	-	-	-	-	-

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

2953-E

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

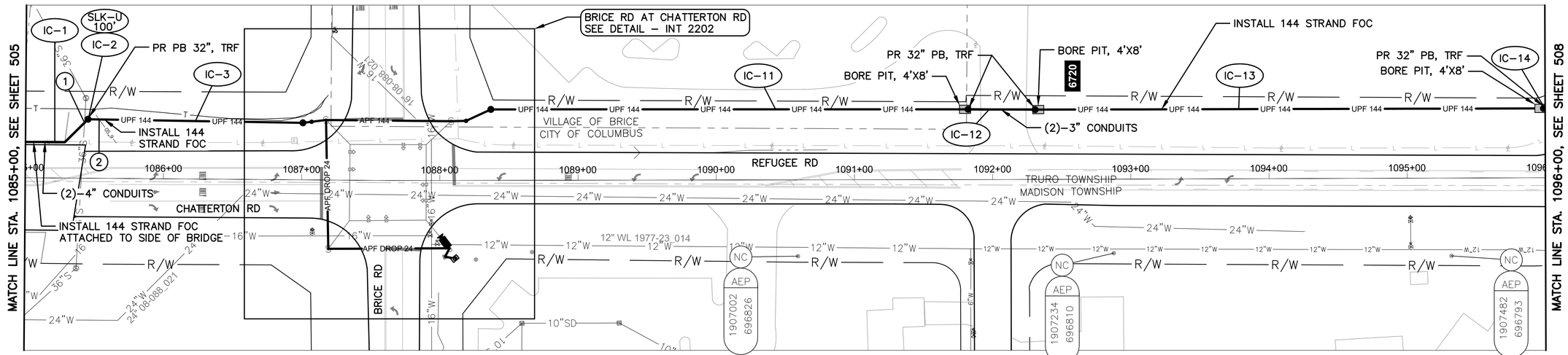
CIP: 540007–100005
PID NUMBER: 14522

CHATTERTON RD. BTW STA. 1003+00 & 1085+00
INT SIG4245

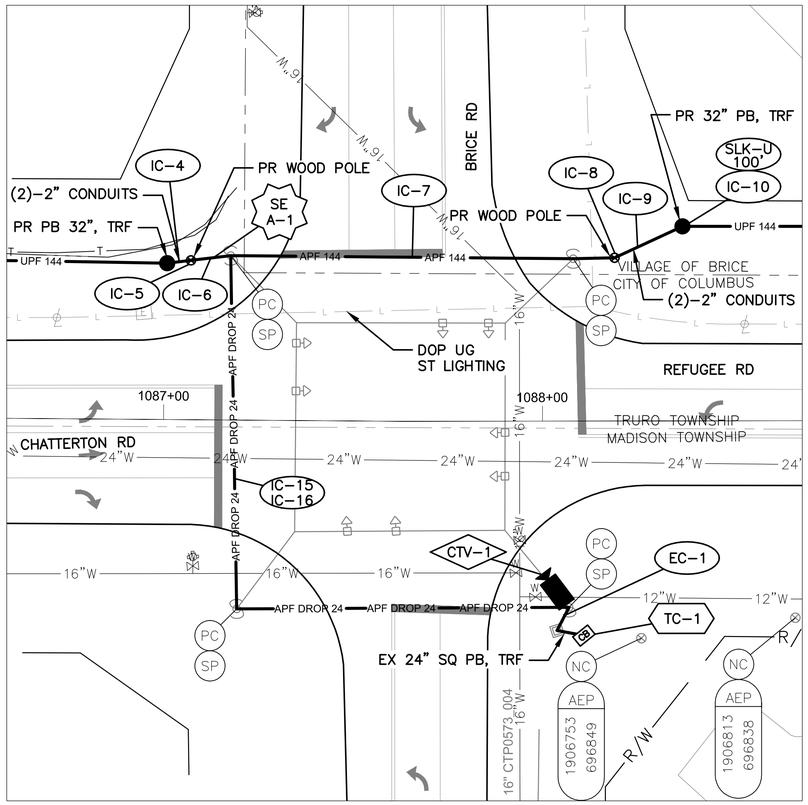
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

506
911

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CHATTERTON RD / REFUGEE RD BETWEEN STATION 1085+00 AND 1096+00



DETAIL - INT 2202

0 20 40

HORIZONTAL SCALE IN FEET

NOTES:

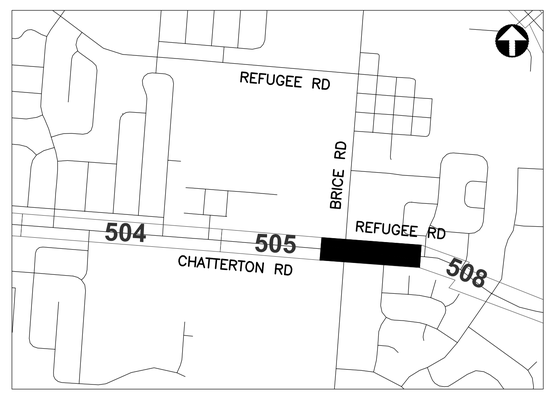
1. SEE SHEET 509 FOR QUANTITIES.
2. SEE SHEETS 615 & 830 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

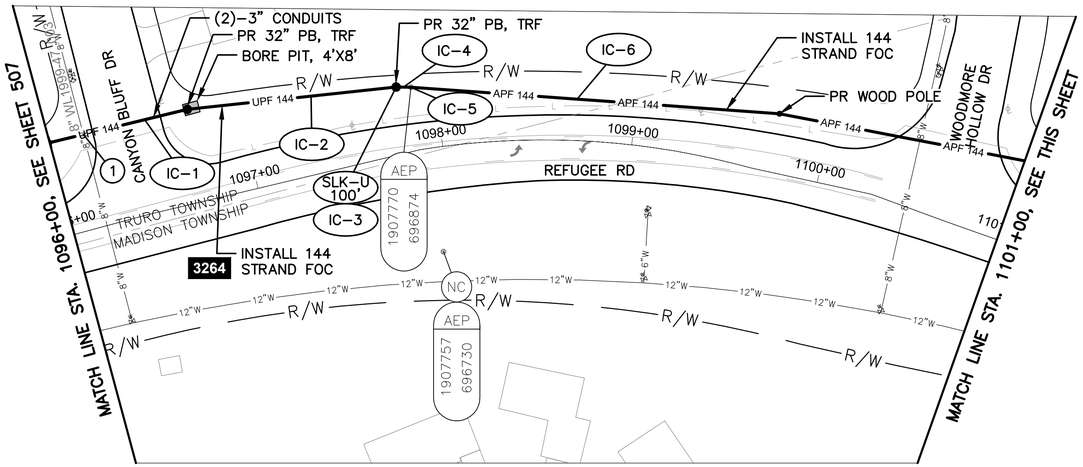
INTERCONNECT PLAN
CHATTERTON RD BETWEEN STA. 1085+00 AND 1096+00, INT 2202

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

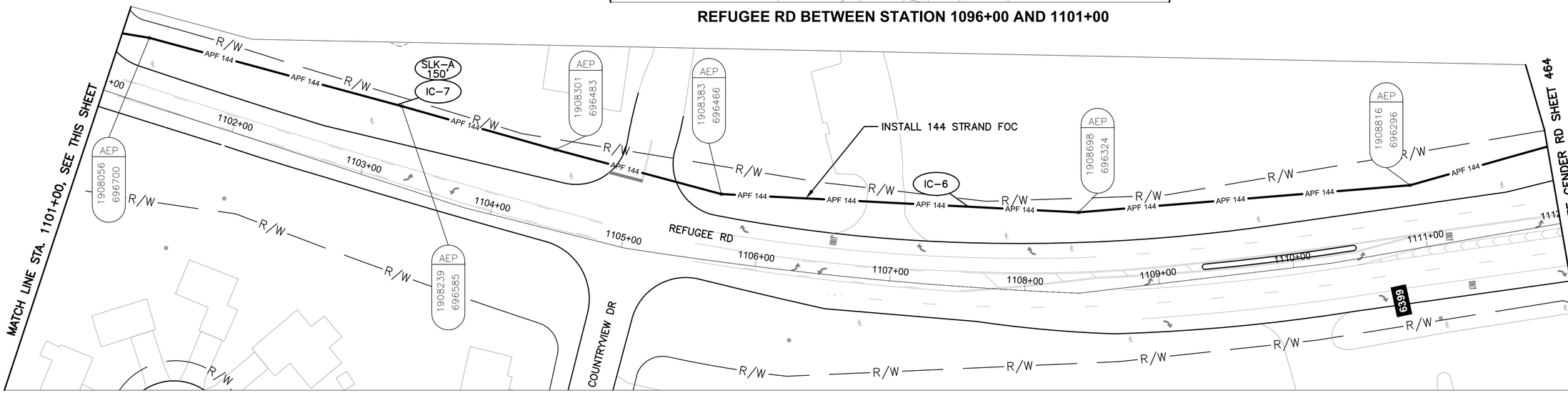
507
911

2953-E

d:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHATTERTON_INTERCONNECT.dwg – CHATTERTON B layout ~ last saved by: sdlowry 05/08/2017 06:41pm ~ printed 05/08/2017 11:31pm



REFUGEE RD BETWEEN STATION 1096+00 AND 1101+00



REFUGEE RD BETWEEN STATION 1101+00 AND 1112+00

NOTES:

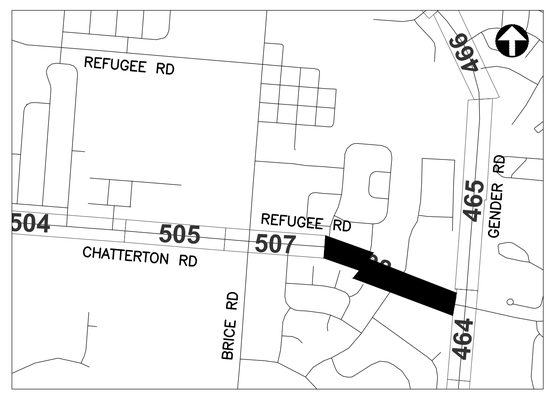
1. SEE SHEET 509 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 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
REFUGEE RD BETWEEN STA. 1096+00 AND 1112+00

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

508
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_CHATTERTON_INTERCONNECT.dwg – CHATTERTON 9 layout ~ last saved by: sdlowry 05/08/2017 06:41pm ~ printed 05/08/2017 11:31pm

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, 2-3", 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)	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/ 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)	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)		
CHATTERTON RD./ REFUGEE RD. BETWEEN STA. 1085+00 AND 1096+00, INT 2202																									
507	IC-1	CHATTERTON RD	1084+99, 26' LT	1085+45, 43' LT					104				52							1					
507	IC-2	CHATTERTON RD	1085+45, 43' LT							1			100												
507	IC-3	CHATTERTON RD	1085+45, 43' LT	1087+00, 41' LT			156			1	156		156												
507	IC-4	CHATTERTON RD	1087+00, 41' LT	1087+06, 42' LT		12					6		6												
507	IC-5	CHATTERTON RD	1087+06, 42' LT									2	35							1					
507	IC-6	CHATTERTON RD	1087+06, 42' LT	1087+17, 43' LT									11			11									
507	SE A-1	CHATTERTON RD	1087+17, 43' LT										150	1											
507	IC-7	CHATTERTON RD	1087+17, 43' LT	1088+19, 43' LT									101			101									
507	IC-16	CHATTERTON RD	1087+17, 43' LT	1088+06, 49' RT												181									
507	IC-15	CHATTERTON RD	1087+17, 43' LT	1088+10, 57' RT											1										
507	CTV-1	CHATTERTON RD	1088+06, 48' RT														35	1							
507	EC-1	CHATTERTON RD	1088+06, 49' RT	1088+10, 57' RT	8												8								
507	TC-1	CHATTERTON RD	1088+10, 57' RT														10				3	1	1		
507	IC-8	CHATTERTON RD	1088+19, 43' LT										35							1					
507	IC-9	CHATTERTON RD	1088+19, 43' LT	1088+37, 51' LT		40					20		20												
507	IC-10	CHATTERTON RD	1088+37, 51' LT							1			100												
507	IC-11	CHATTERTON RD	1088+37, 51' LT	1091+82, 51' LT			345				345		345												
507	IC-12	CHATTERTON RD	1091+82, 51' LT	1092+30, 51' LT				96		2			48												
507	IC-13	CHATTERTON RD	1092+30, 51' LT	1095+98, 50' LT			368				368		368												
507	IC-14	CHATTERTON RD	1095+98, 50' LT	1096+00, 50' LT				4		1			2												
REFUGEE RD. BETWEEN STA. 1096+00 AND 1112+00																									
508	IC-1	REFUGEE RD	1096+00, 50' LT	1096+73, 49' LT				148		1			74												
508	IC-2	REFUGEE RD	1096+73, 49' LT	1097+83, 35' LT			111				111		111												
508	IC-3	REFUGEE RD	1097+83, 35' LT							1			100												
508	IC-4	REFUGEE RD	1097+83, 35' LT	1097+88, 33' LT		16					8		8												
508	IC-5	REFUGEE RD	1097+88, 33' LT									2	35												
508	IC-6	REFUGEE RD	1097+88, 33' LT	1112+00, 50' LT									1401			1401				1					
508	IC-7	REFUGEE RD	1103+09, 57' LT										150												
SHEET TOTAL					8	68	980	248	104	8	1014	4	3408	1	1	1694	53	1	3	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

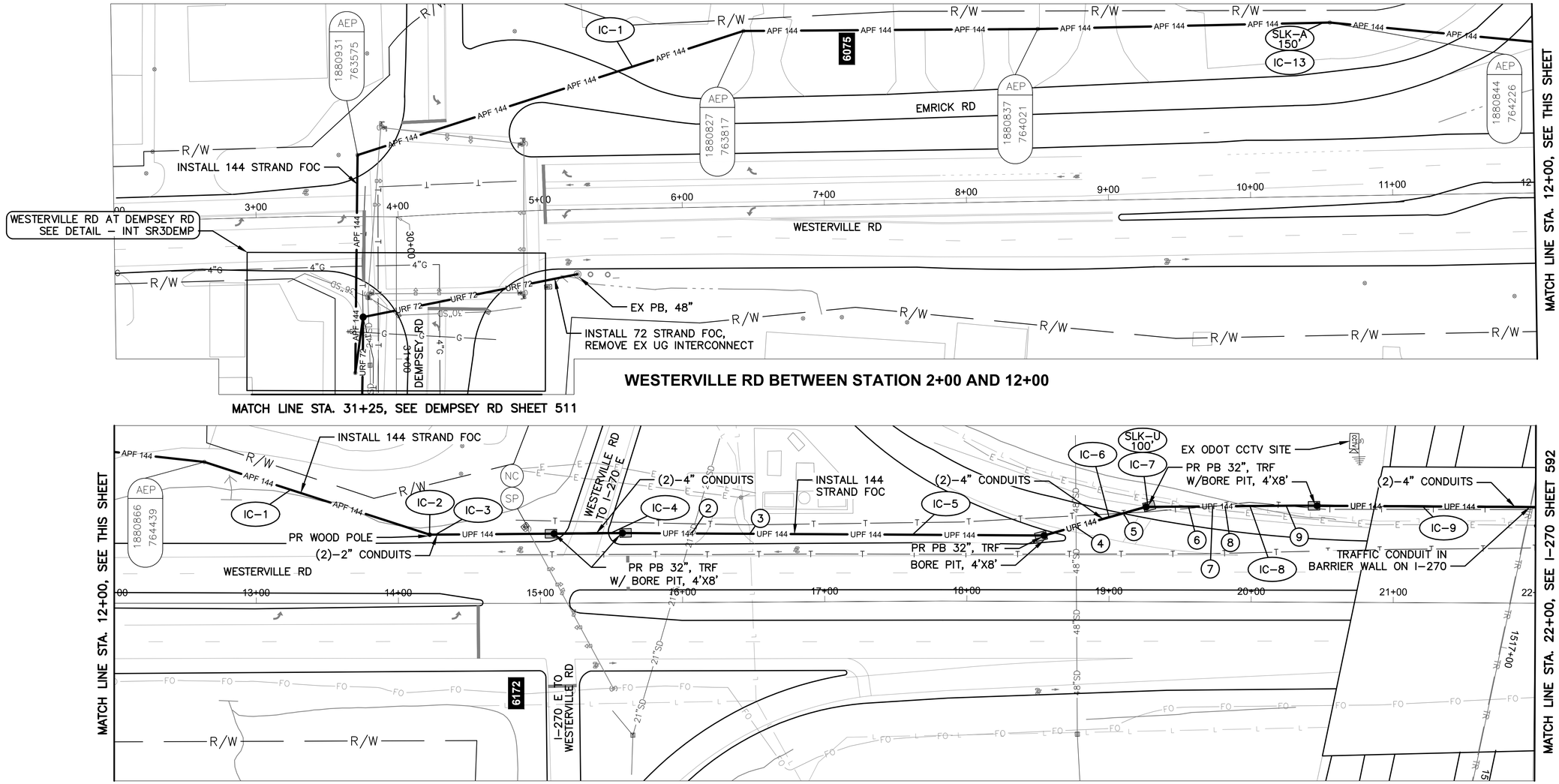
CIP: 540007–100005
PID NUMBER: 14522

CHATTERTON RD. BTW STA.1085+00 & 1096+00, INT 2202
REFUGEE RD. BTW STA. 1096+00 & 1112+00

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

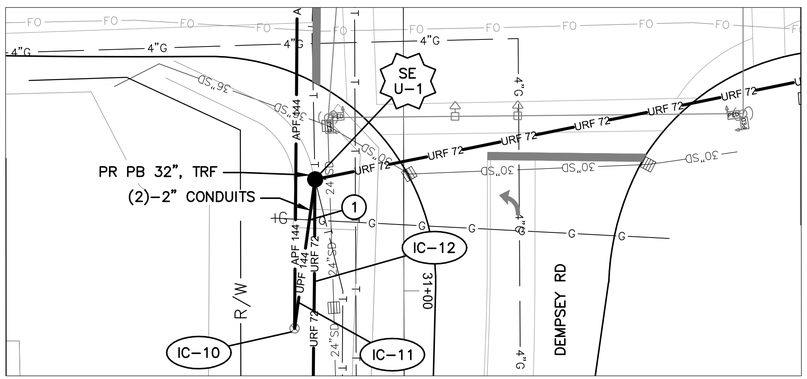
509
911

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WESTERVILLE RD BETWEEN STATION 2+00 AND 12+00

WESTERVILLE RD BETWEEN STATION 12+00 AND 22+00



DETAIL - INT SR3DEMP

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

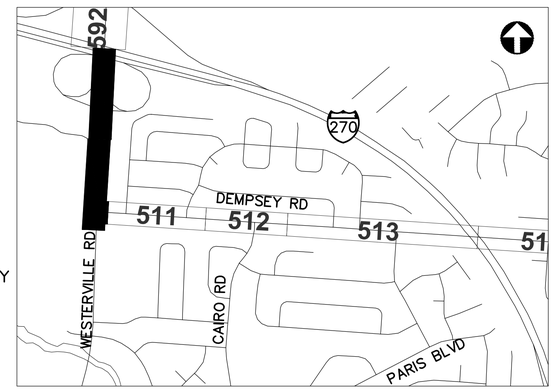
1. SEE SHEET 515 FOR QUANTITIES.
2. SEE SHEETS 618 & 847 FOR COMMUNICATION DETAILS.
3. SEE SHEET 38 FOR INTERCEPTING EXISTING CONDUIT DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
5. EXISTING FIBER OPTIC CABLE DOWNTIME IS PERMITTED THIRD WEEKEND OF MONTH ONLY. COORDINATE WITH CITY OF COLUMBUS IT IN ADVANCE OF THIS WORK.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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
- [ ] POWER
- [X] LIGHTING



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

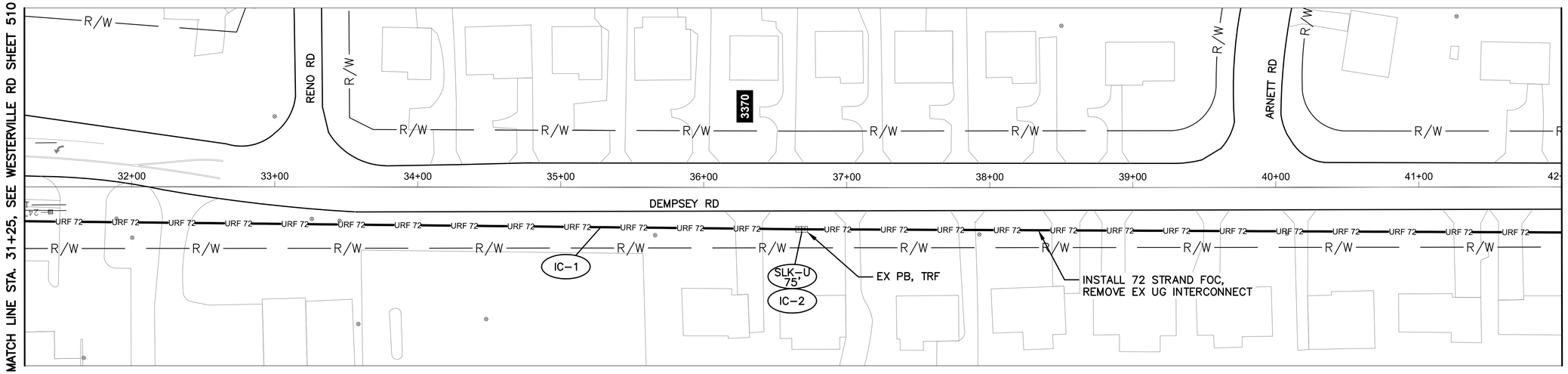
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
WESTERVILLE RD BETWEEN STA. 2+00 AND 22+00

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

510
911

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DEMPSEY RD BETWEEN STATION 31+25 AND 42+00

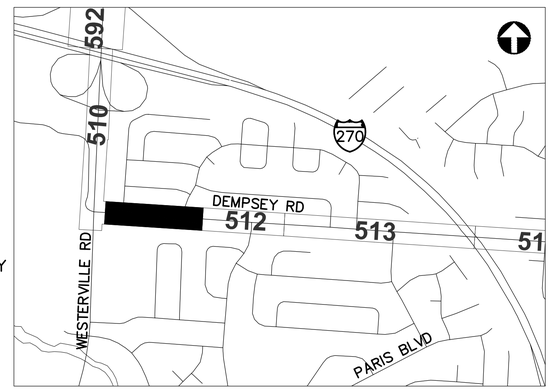
NOTES:

1. SEE SHEET 515 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. EXISTING FIBER OPTIC CABLE DOWNTIME IS PERMITTED THIRD WEEKEND OF MONTH ONLY. COORDINATE WITH CITY OF COLUMBUS IT IN ADVANCE OF THIS WORK.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

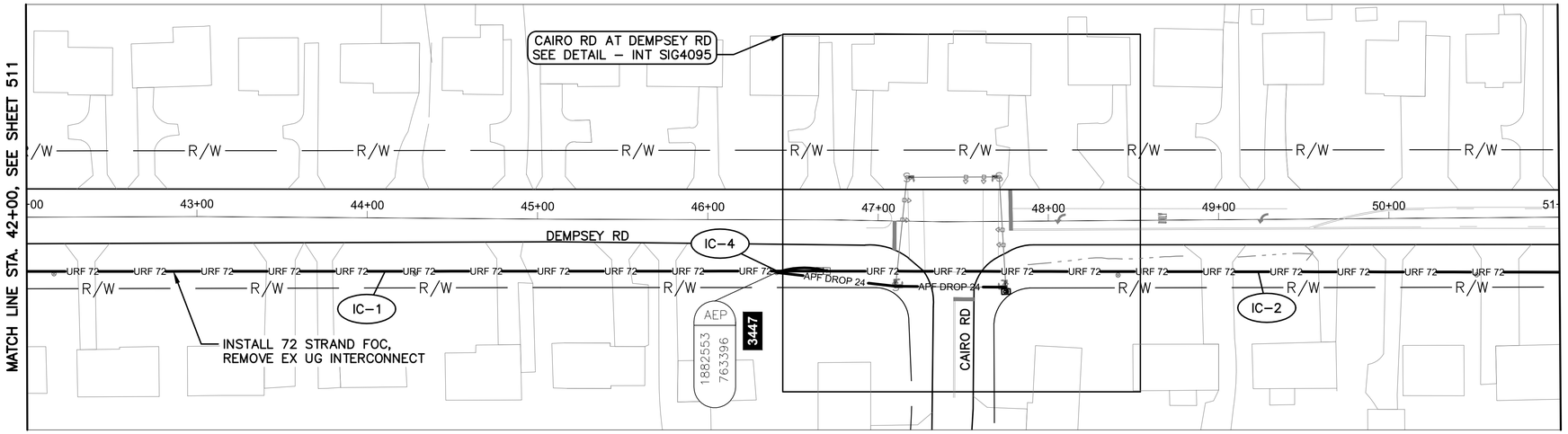
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
DEMPSEY RD BETWEEN STA. 31+25 AND 42+00

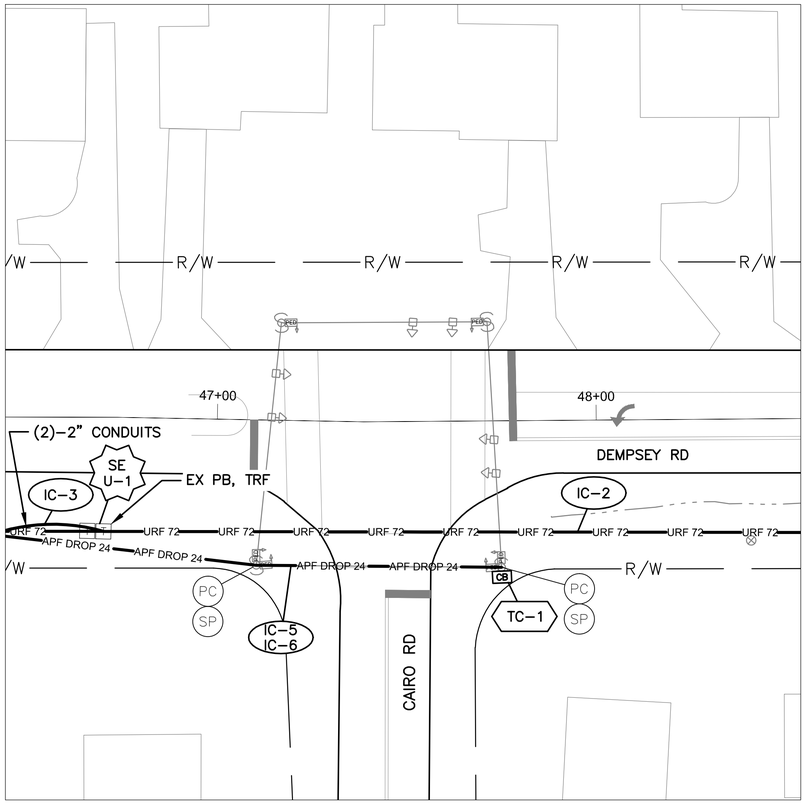
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

511
911

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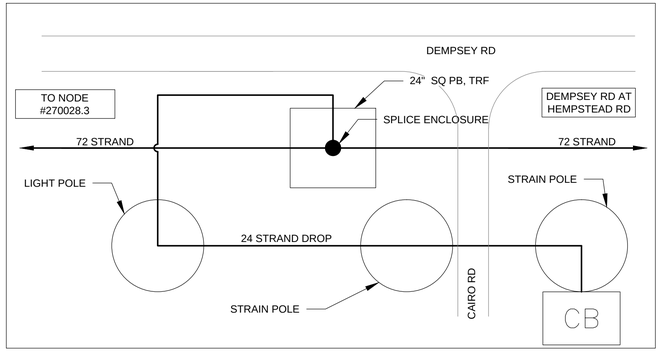
DEMPSEY RD BETWEEN STATION 42+00 AND 51+00



DETAIL - INT SIG4095

0 20 40

HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

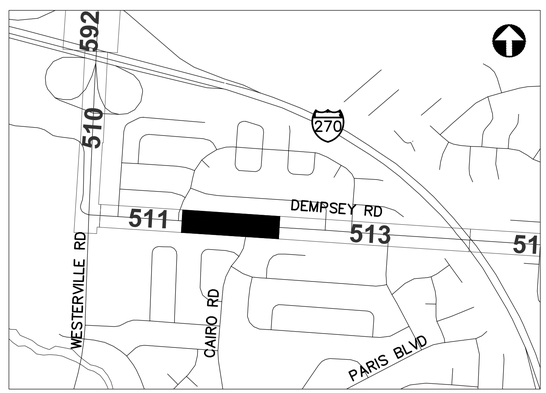
NOTES:

1. SEE SHEET 515 FOR QUANTITIES.
2. SEE SHEETS 618 & 848 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.
4. EXISTING FIBER OPTIC CABLE DOWNTIME IS PERMITTED THIRD WEEK OF MONTH ONLY. COORDINATE WITH CITY OF COLUMBUS IT IN ADVANCE OF THIS WORK.

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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

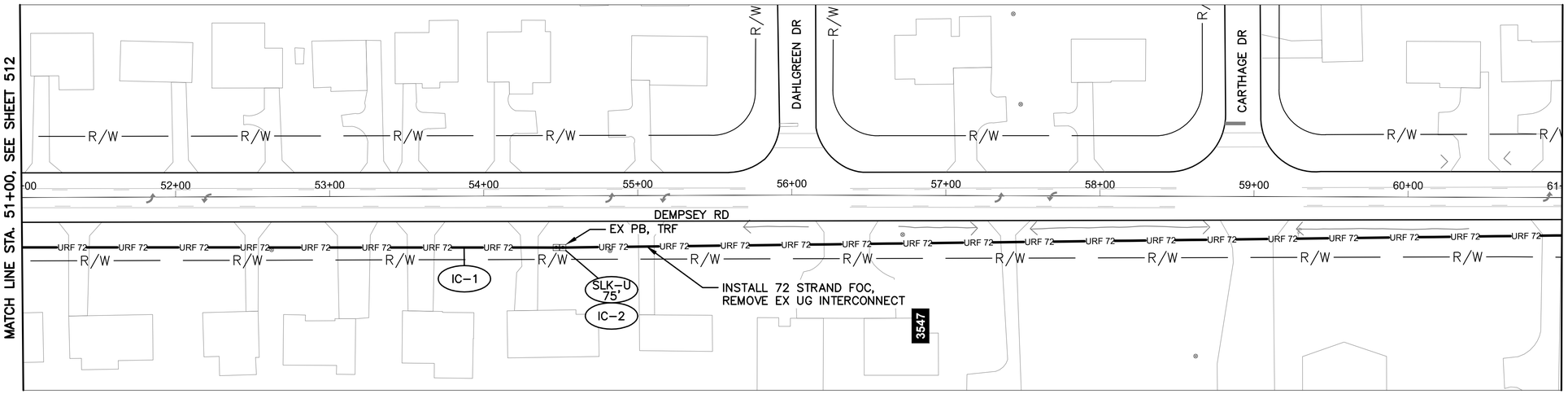
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
DEMPSEY RD BETWEEN STA. 42+00 AND 51+00, INT SIG4095

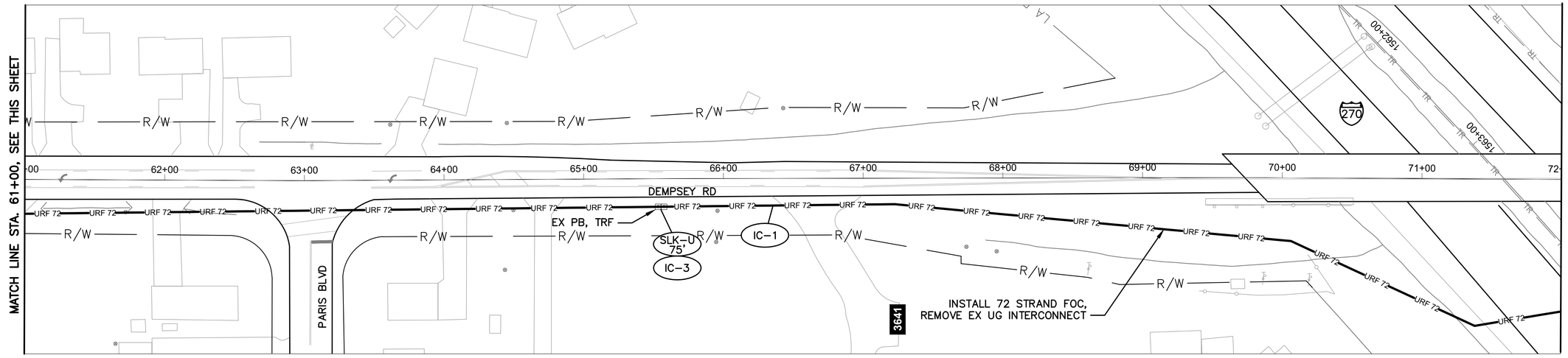
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

512
911

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DEMPSEY RD BETWEEN STATION 51+00 AND 61+00



DEMPSEY RD BETWEEN STATION 61+00 AND 72+00

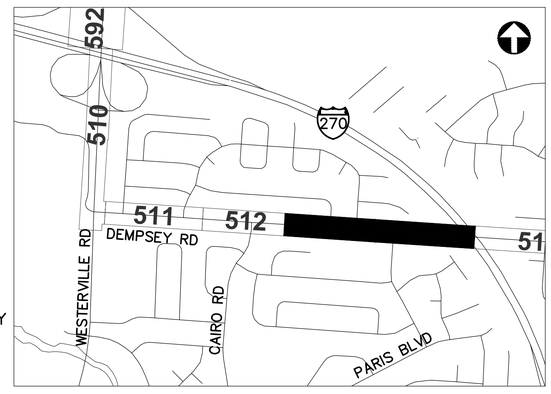
NOTES:

1. SEE SHEET 515 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. EXISTING FIBER OPTIC CABLE DOWNTIME IS PERMITTED THIRD WEEKEND OF MONTH ONLY. COORDINATE WITH CITY OF COLUMBUS IT IN ADVANCE OF THIS WORK.

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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

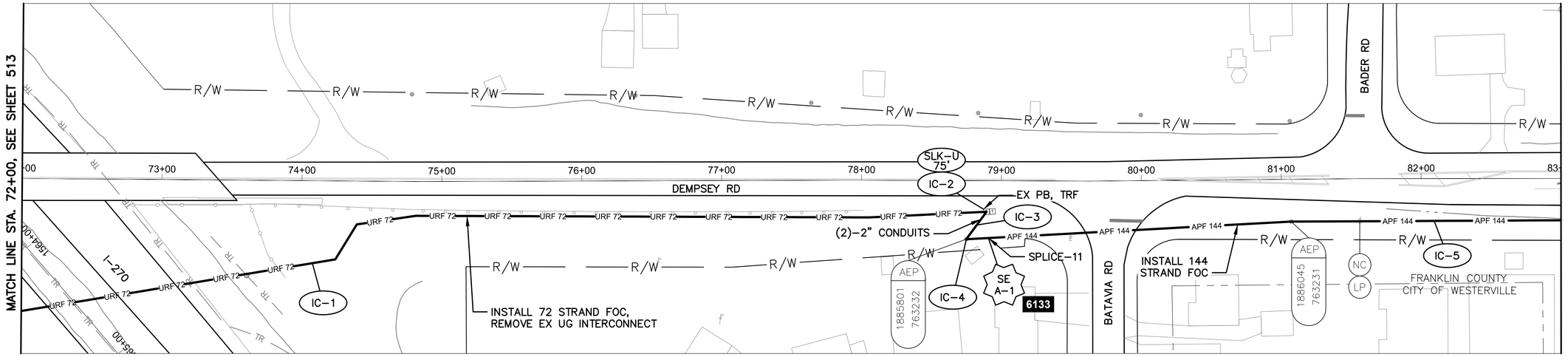
INTERCONNECT PLAN
DEMPSEY RD BETWEEN STA. 51+00 AND 72+00

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

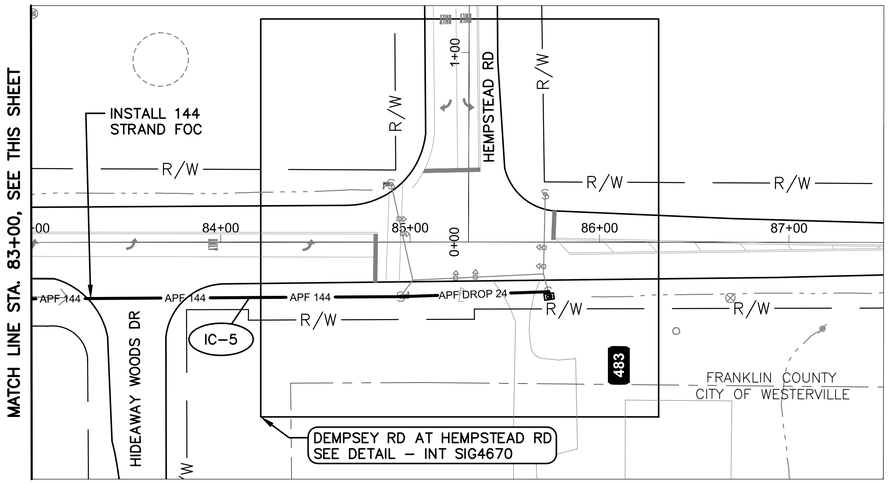
513
911

2953-E

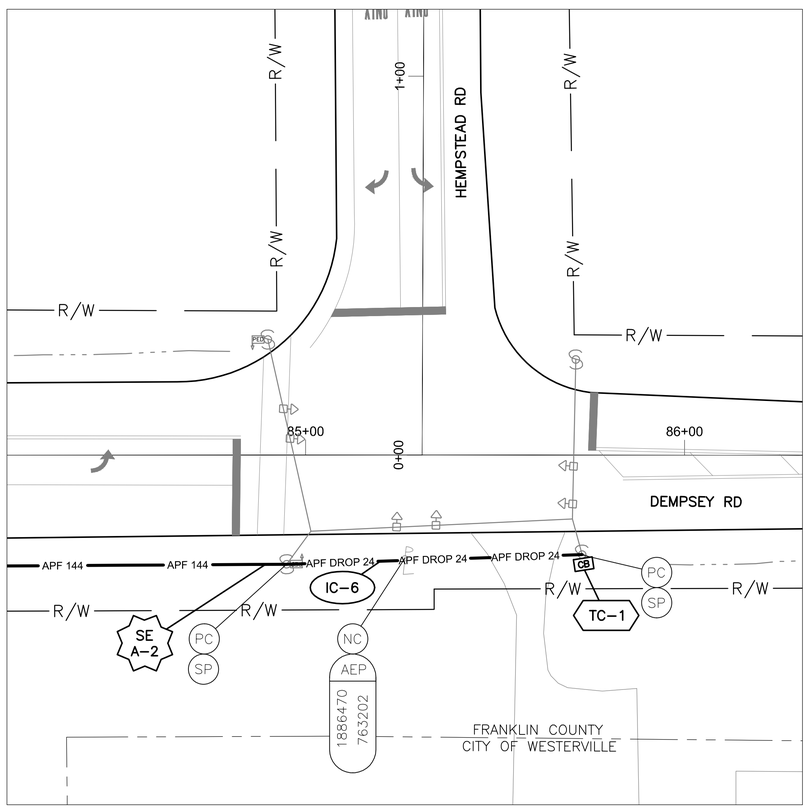
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DEMPSEY RD BETWEEN STATION 72+00 AND 83+00



DEMPSEY RD BETWEEN STATION 83+00 AND 87+50



DETAIL - INT SIG4670

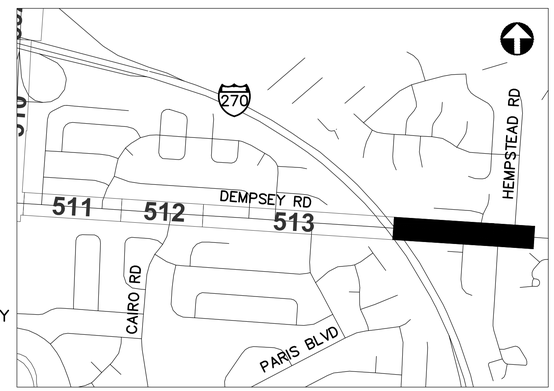
HORIZONTAL SCALE IN FEET (0, 20, 40)

NOTES:

1. SEE SHEET 515 FOR QUANTITIES.
2. SEE SHEETS 618, 849 & 850 FOR COMMUNICATION DETAILS.
3. EXISTING CONDUIT TO CONTROLLER CABINET IS FULL. INSTALL NEW FLEXIBLE CONDUIT TO CABINET FOR PROPOSED DROP CABLE.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
5. EXISTING FIBER OPTIC CABLE DOWNTIME IS PERMITTED THIRD WEEKEND OF MONTH ONLY. COORDINATE WITH CITY OF COLUMBUS IT IN ADVANCE OF THIS WORK.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

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



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET (0, 40, 80)

CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
DEMPSEY RD BETWEEN STA. 72+00 AND 87+50, INT SIG4670

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

514
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	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, 4", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 4", 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, 72 STRAND	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, 144 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, W/ 300FT DROP CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	WOOD POLE, CLASS 5, 35 FT	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 UNIT, TYPE TS2/A2, AS PER PLAN
			FROM	TO	FT	FT	FT	FT	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH
WESTERVILLE RD. BETWEEN STA. 2+00 AND 22+00, INT SPLICE-10																								
510	IC-1	WESTERVILLE RD	3+70, 110' LT	14+21, 48' LT								1243							1243					
510	IC-10	WESTERVILLE RD	3+70, 110' RT								1	35												
510	IC-11	WESTERVILLE RD	3+70, 110' RT	3+75, 71' RT		80				40		40												
510	IC-12	WESTERVILLE RD	3+75, 125' RT	5+25, 46' RT	208								208	208										
510	SE U-1	WESTERVILLE RD	3+75, 71' RT						1			150			1									
510	IC-13	WESTERVILLE RD	10+53, 122' LT									150												
510	IC-2	WESTERVILLE RD	14+21, 48' LT								1	35								1				
510	IC-3	WESTERVILLE RD	14+21, 48' LT	14+35, 48' LT		28				14		14												
510	IC-4	WESTERVILLE RD	14+35, 48' LT	15+57, 49' LT				244	2			122												
510	IC-5	WESTERVILLE RD	15+57, 49' LT	18+54, 46' LT			594			297		297												
510	IC-6	WESTERVILLE RD	18+54, 46' LT	19+25, 67' LT				148	1			74												
510	IC-7	WESTERVILLE RD	19+25, 67' LT						1			100												
510	IC-8	WESTERVILLE RD	19+25, 67' LT	20+46, 68' LT			240			120		120												
510	IC-9	WESTERVILLE RD	20+46, 68' LT	22+00, 68' LT				308	1			154												
DEMPSEY RD. BETWEEN STA. 31+25 AND 42+00																								
511	IC-1	DEMPSEY RD	31+25, 24' RT	42+00, 32' RT	1075								1075	1075										
511	IC-2	DEMPSEY RD	36+70, 29' RT										75											
DEMPSEY RD. BETWEEN STA. 42+00 AND 51+00, INT SIG4095																								
512	IC-1	DEMPSEY RD	42+00, 32' RT	46+70, 30' RT	470								470	470										
512	IC-4	DEMPSEY RD	46+40, 31' RT								1													
512	IC-3	DEMPSEY RD	46+40, 31' RT	46+70, 30' RT		60				30														
512	IC-5	DEMPSEY RD	46+40, 31' RT	47+74, 39' RT															137					
512	SE U-1	DEMPSEY RD	46+69, 30' RT									150					1							
512	IC-6	DEMPSEY RD	46+69, 30' RT	47+74, 39' RT														1						
512	IC-2	DEMPSEY RD	46+69, 30' RT	51+00, 32' RT	430							430		430										
512	TC-1	DEMPSEY RD	47+74, 39' RT																		2	1	1	
DEMPSEY RD. BETWEEN STA. 51+00 AND 72+00																								
513	IC-1	DEMPSEY RD	51+00, 32' RT	72+00, 95' RT	2115							2115												
513	IC-2	DEMPSEY RD	54+51, 34' RT									75												
513	IC-3	DEMPSEY RD	65+53, 20' RT									75												
DEMPSEY RD. BETWEEN STA. 72+00 AND 87+50, INTS SIG4670 & SPLICE-11																								
514	IC-1	DEMPSEY RD	72+00, 95' RT	78+89, 22' RT	708							708	708											
514	IC-4	DEMPSEY RD	78+74, 42' RT								1	35												
514	IC-3	DEMPSEY RD	78+74, 42' RT	78+89, 22' RT		48				24		24												
514	IC-5	DEMPSEY RD	78+74, 42' RT	84+94, 29' RT								630							630					
514	SE A-1	DEMPSEY RD	78+74, 42' RT									75	75			1								
514	IC-2	DEMPSEY RD	78+89, 22' RT										75											
514	SE A-2	DEMPSEY RD	84+94, 29' RT									75				1								
514	IC-6	DEMPSEY RD	84+94, 29' RT	85+73, 26' RT														1	79					
514	TC-1	DEMPSEY RD	85+73, 26' RT																		1	2	1	1
SHEET TOTAL					5006	216	834	700	6	525	4	3314	5590	2891	1	2	1	2	2089	1	1	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

WESTERVILLE RD. BTW STA. 2+00 & 22+00
DEMPSEY RD. BTW STA. 31+25 & 87+50, INTS SIG4095, SIG4670

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

515
911

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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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CIP: 540007–100005
PID NUMBER: 14522

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

2953-E

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SHEET INTENTIONALLY LEFT BLANK

CIP: 540007-100005
PID NUMBER: 14522

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

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CIP: 540007–100005
PID NUMBER: 14522

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

519
911

2953-E

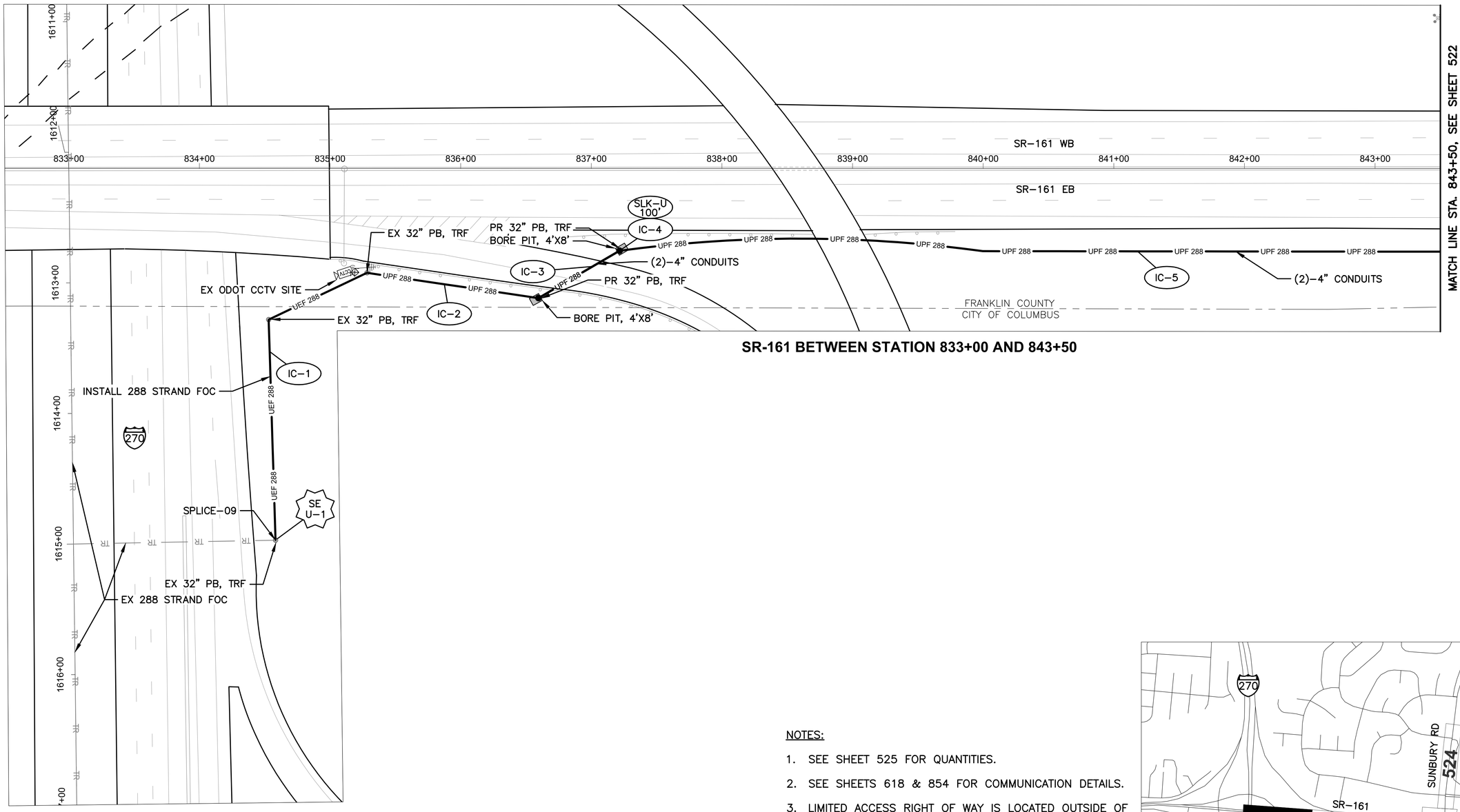
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CIP: 540007-100005
PID NUMBER: 14522

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

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SR-161 BETWEEN STATION 833+00 AND 843+50

NOTES:

1. SEE SHEET 525 FOR QUANTITIES.
2. SEE SHEETS 618 & 854 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. PORTION OF CONDUIT TO BE BORED UNDER RAMPS WILL BE CONCRETE ENCASED DUE TO GUARD RAIL

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CITY OF COLUMBUS UTILITY LEGEND

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

REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

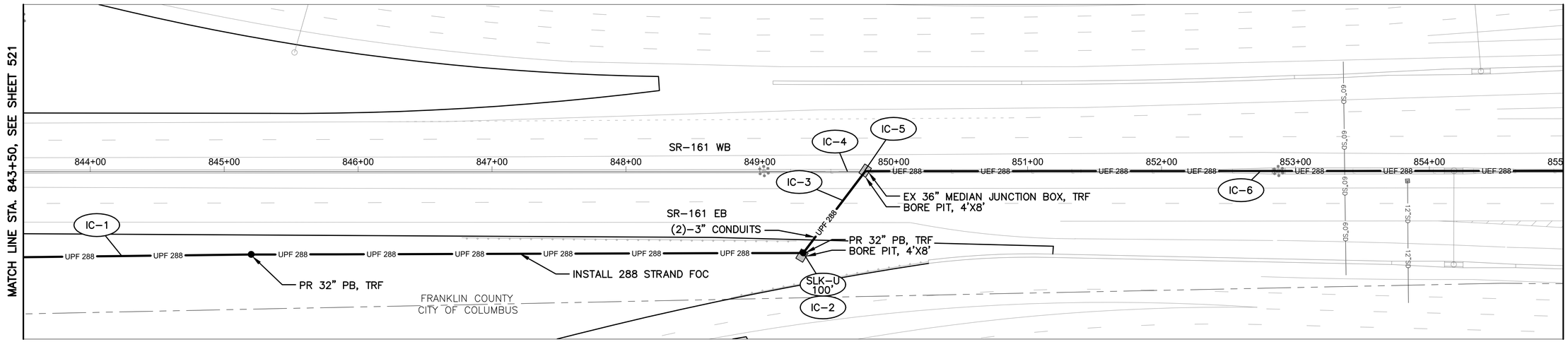
INTERCONNECT PLAN
SR-161 BETWEEN STA. 833+00 AND 843+50

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

521
911

2953-E

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SR-161 BETWEEN STATION 843+50 AND 855+00

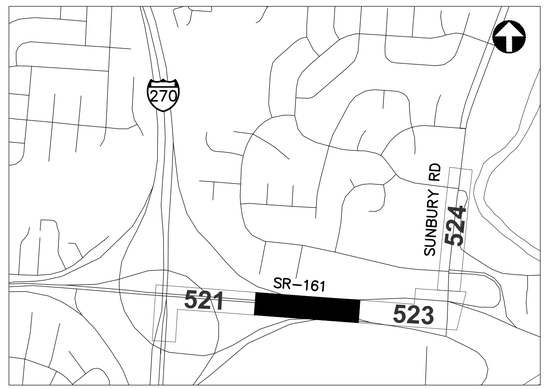
NOTES:

1. SEE SHEET 525 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0
40
80

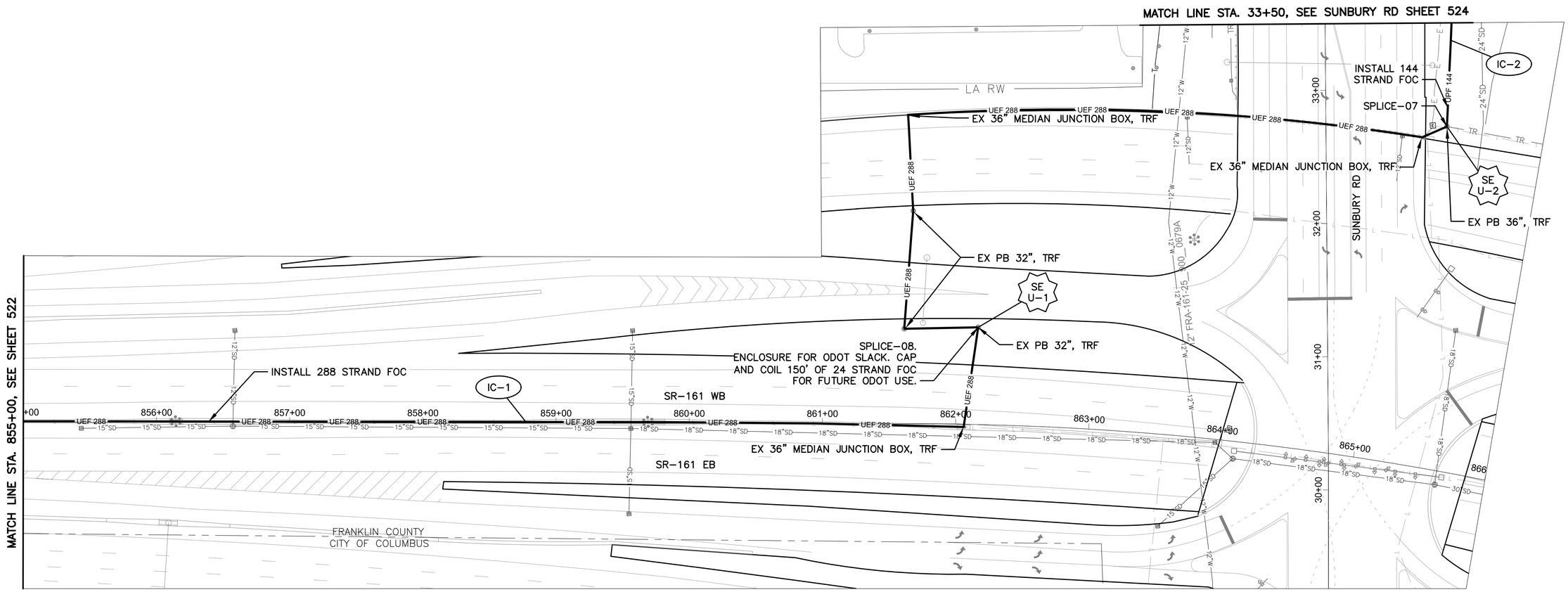
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
SR–161 BETWEEN STA. 843+50 AND 855+00

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

522
911

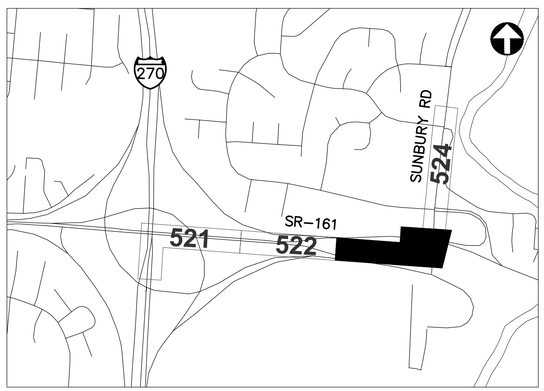
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SR-161 BETWEEN STATION 855+00 AND 866+00

NOTES:

1. SEE SHEET 525 FOR QUANTITIES.
2. SEE SHEET 618 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.



REFER TO SHEET 269 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

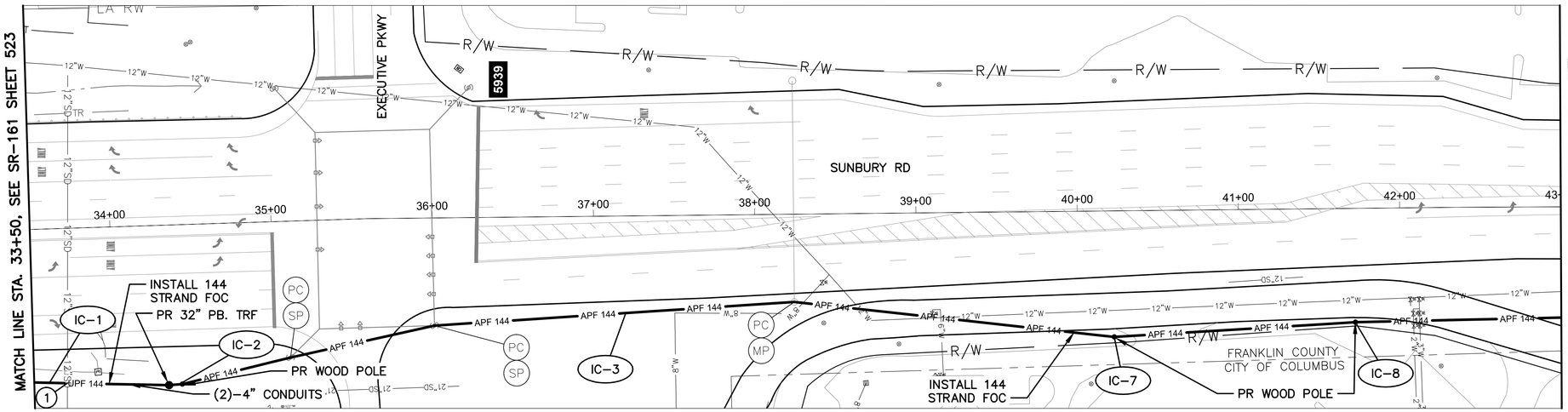
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PID NUMBER: 14522

INTERCONNECT PLAN
SR-161 BETWEEN STA. 855+00 AND 866+00

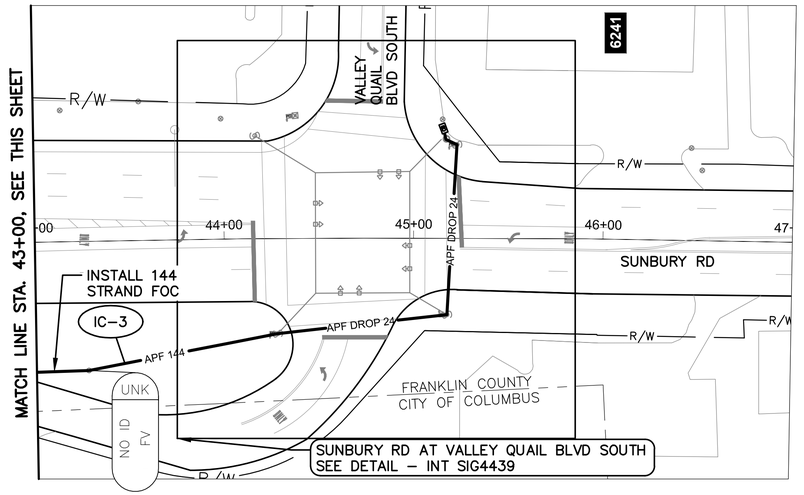
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

523
911

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SUNBURY RD BETWEEN STATION 33+50 AND 43+00



SUNBURY RD BETWEEN STATION 43+00 AND 47+00



DETAIL - INT SIG4439

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

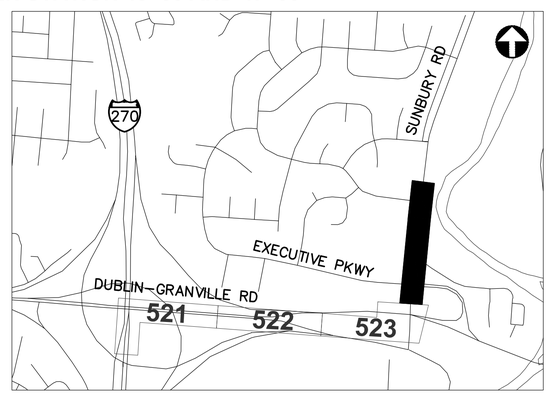
1. SEE SHEET 525 FOR QUANTITIES.
2. SEE SHEETS 618 & 851 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 269 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
SUNBURY RD BETWEEN STA. 33+50 AND 47+00, INT SIG4439

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

524
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	202 REMOVAL, MISC.: REMOVE MEDIAN BARRIER WALL (FT)	622 BARRIER, MISC.: MEDIAN BARRIER WALL (FT)	625 36" MEDIAN JUNCTION BOX (EACH)	625 CONDUIT, 4", AS PER PLAN (FT)	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN (FT)	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 CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 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/ 450FT 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)
SR-161 BETWEEN STA. 833+00 AND 843+50, INT SPLICE-09																									
521	SE U-1	SR-161	834+58, 285' RT														75	1							
521	IC-1	SR-161	834+58, 285' RT	835+28, 80' RT	252												252								
521	IC-2	SR-161	835+28, 80' RT	836+59, 99' RT					266		1	133					133								
521	IC-3	SR-161	836+59, 99' RT	837+21, 63' RT						144							72								
521	IC-4	SR-161	837+21, 63' RT								1						100								
521	IC-5	SR-161	837+21, 63' RT	843+50, 64' RT					1258			629					629								
SR-161 BETWEEN STA. 843+50 AND 855+00																									
522	IC-1	SR-161	843+50, 64' RT	849+32, 61' RT					1164			582					582								
522	IC-3	SR-161	849+32, 61' LT	849+78, 0' LT						154							77								
522	IC-2	SR-161	849+32, 61' RT								1						100								
522	IC-4	SR-161	849+65, 0' LT	849+85, 0' LT		20	20																		
522	IC-5	SR-161	849+78, 0' LT					1																	
522	IC-6	SR-161	849+78, 0' LT	855+00, 1' LT	521												521								
SR-161 BETWEEN STA. 855+00 AND 866+00, INTS SPLICE-07 & SPLICE-08																									
523	IC-1	SR-161	855+00, 1' LT	865+28, 256' LT	1405												1405								
523	SE U-1	SR-161	862+15, 73' LT													150	150	1							
523	IC-2	SR-161	865+20, 333' LT	865+28, 256' LT					156			78			78										
523	SE U-2	SR-161	865+28, 256' LT												75		100	1							
SUNBURY RD. BETWEEN STA. 33+50 AND 47+00, INT SIG4439																									
524	IC-1	SUNBURY RD	33+50, 95' RT	34+41, 99' RT					184		1	92			92										
524	IC-2	SUNBURY RD	34+41, 99' RT										1		35										
524	IC-3	SUNBURY RD	34+41, 99' RT	44+28, 50' RT											1005						1005				
524	IC-7	SUNBURY RD	40+10, 78' RT																			1			
524	IC-8	SUNBURY RD	41+75, 71' RT																			1			
524	SE A-1	SUNBURY RD	44+28, 50' RT												75				1						
524	IC-4	SUNBURY RD	44+28, 50' LT	45+22, 50' LT																	183				
524	IC-5	SUNBURY RD	44+28, 50' RT	45+15, 58' LT																1					
524	TC-1	SUNBURY RD	45+15, 58' LT																				2	1	1
524	IC-6	SUNBURY RD	45+15, 58' LT	45+22, 50' LT	12																				
SHEET TOTAL					2190	20	20	1	3028	298	4	1514	1	1360	150	4196	3	1	1	1188	3	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

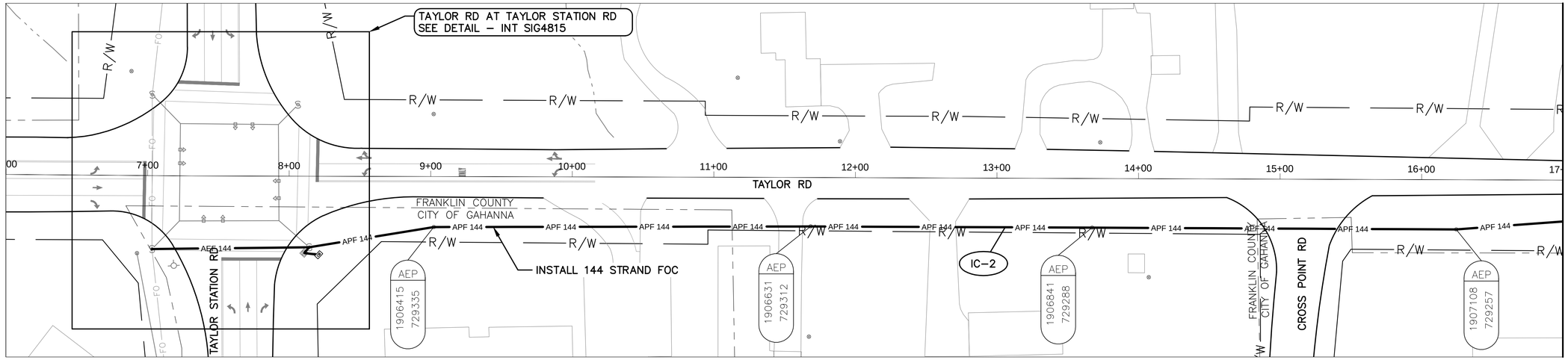
CIP: 540007–100005
PID NUMBER: 14522

SR–161. BTW STA. 833+00 & 866+00
SUNBURY RD. BTW STA. 33+50 & 47+00, INT SIG4439

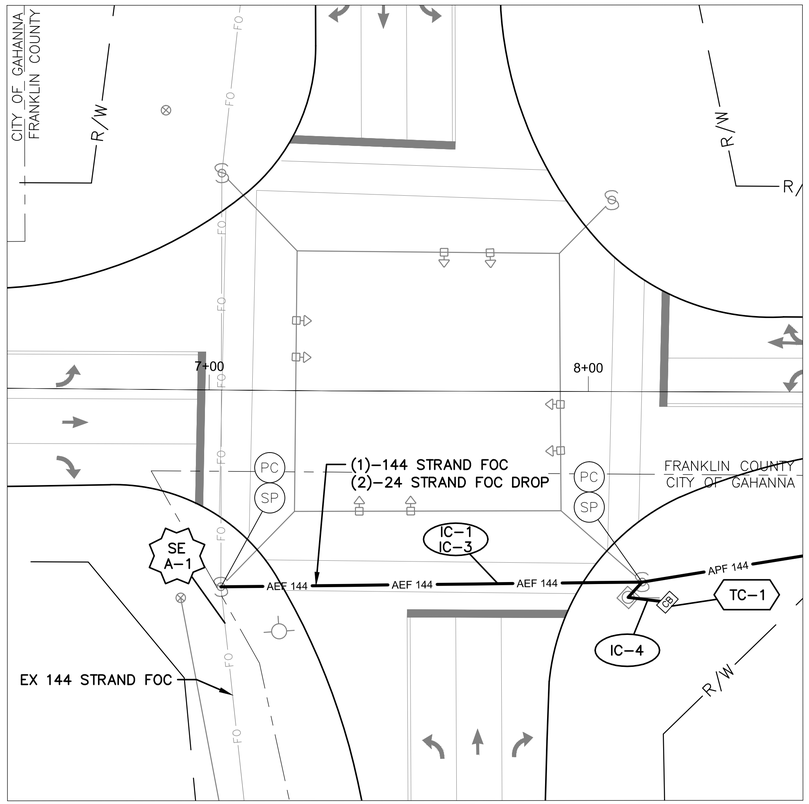
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

525
911

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TAYLOR RD BETWEEN STATION 6+00 AND 17+00



DETAIL - INT SIG4815

0 20 40
HORIZONTAL
SCALE IN FEET

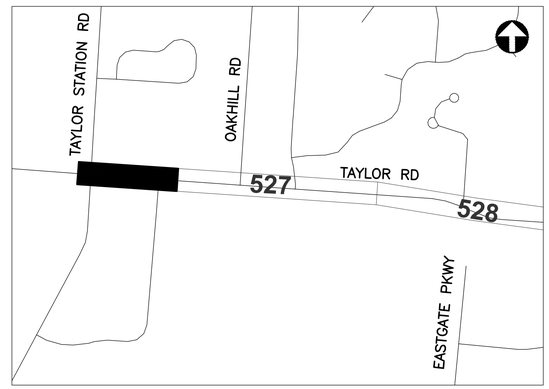
NOTES:

1. SEE SHEET 530 FOR QUANTITIES.
2. SEE SHEETS 617 & 855 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

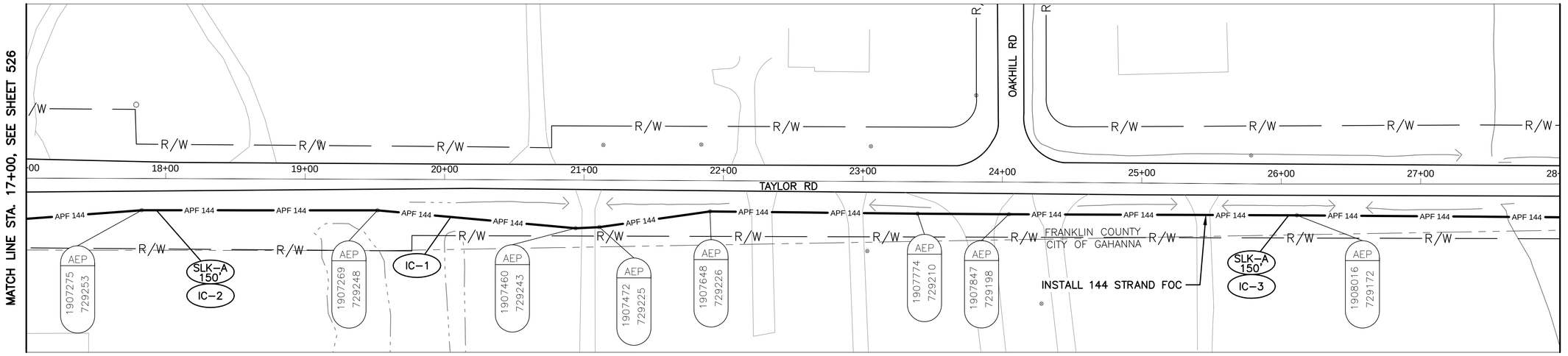
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
TAYLOR RD BETWEEN STA. 6+00 AND 17+00, INT SIG4815

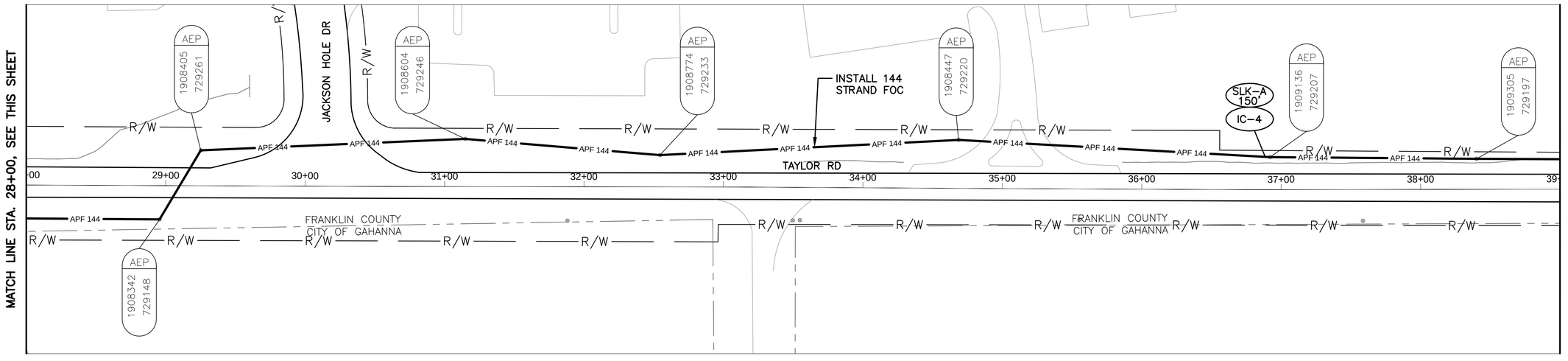
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

526
911

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TAYLOR RD BETWEEN STATION 17+00 AND 28+00



TAYLOR RD BETWEEN STATION 28+00 AND 39+00

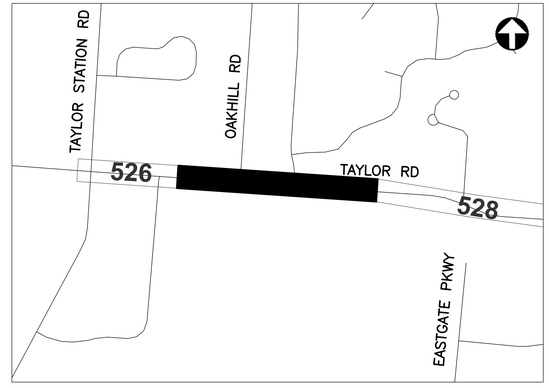
NOTES:

1. SEE SHEET 530 FOR QUANTITIES.
2. SEE SHEET 617 FOR COMMUNICATION DETAILS.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

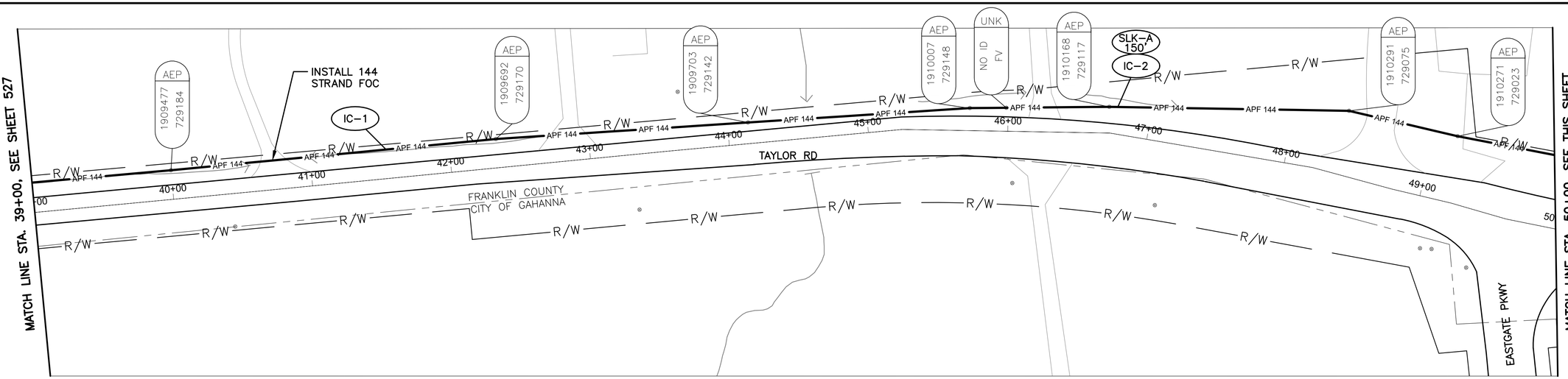
INTERCONNECT PLAN
TAYLOR RD BETWEEN STA. 17+00 AND 39+00

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

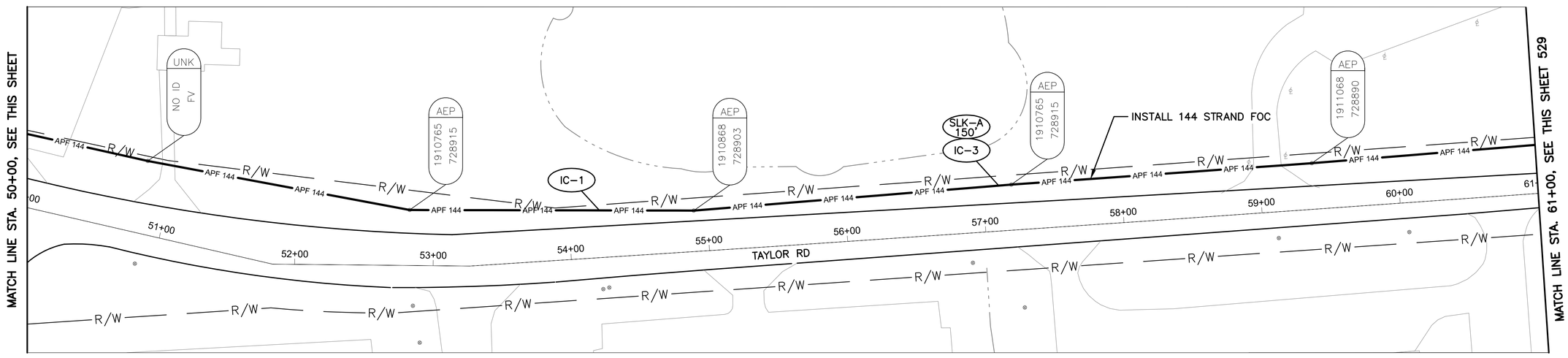
2953-E

527
911

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TAYLOR RD BETWEEN STATION 39+00 AND 50+00



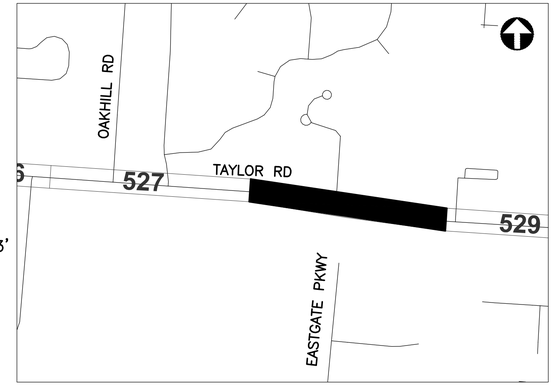
TAYLOR RD BETWEEN STATION 50+00 AND 61+00

NOTES:

1. SEE SHEET 530 FOR QUANTITIES.
2. SEE SHEET 617 FOR COMMUNICATION DETAILS.
3. THE POLES LOCATED AT 52+83, 40' LT AND 57+21, 33' LT HAVE BEEN FIELD VERIFIED AS HAVING THE SAME ID.

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

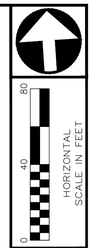
CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 270 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E



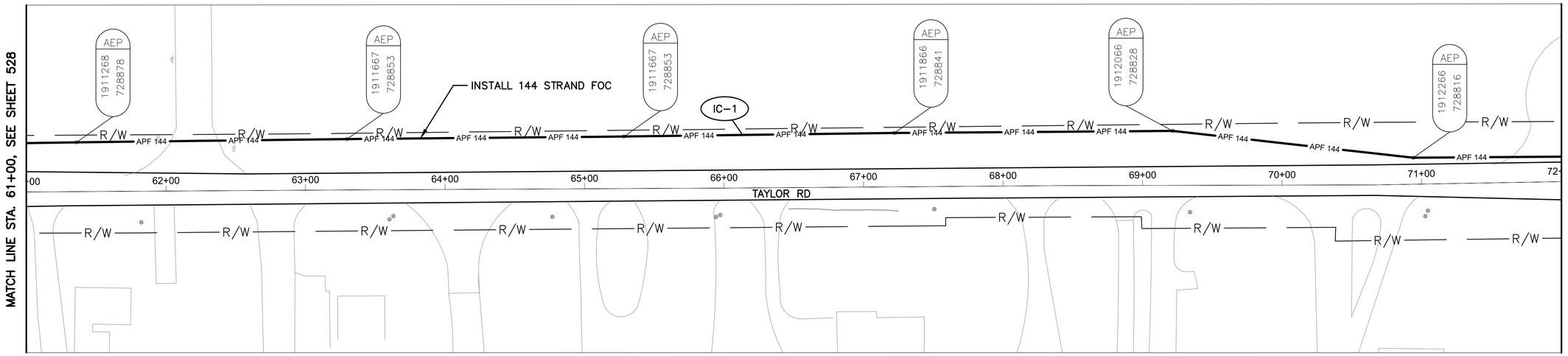
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PID NUMBER: 14522

INTERCONNECT PLAN
TAYLOR RD BETWEEN STA. 39+00 AND 61+00

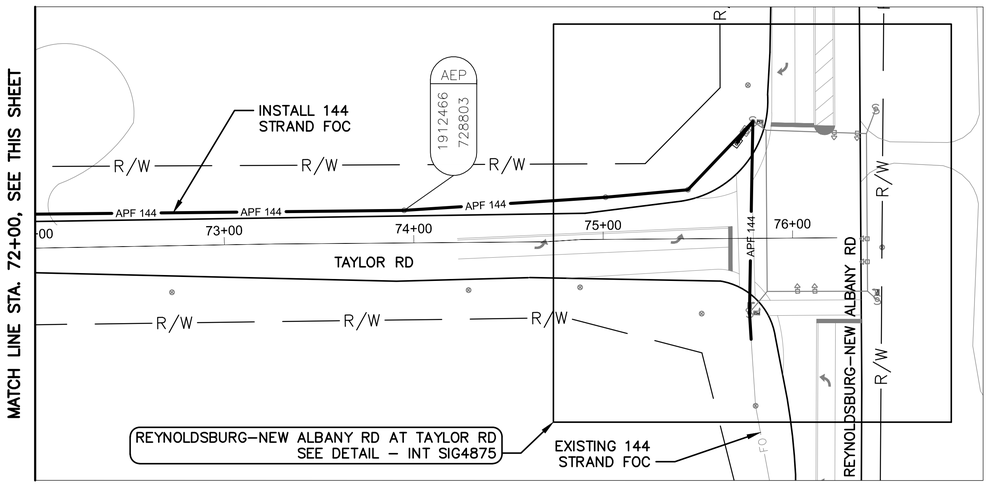
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

528
911

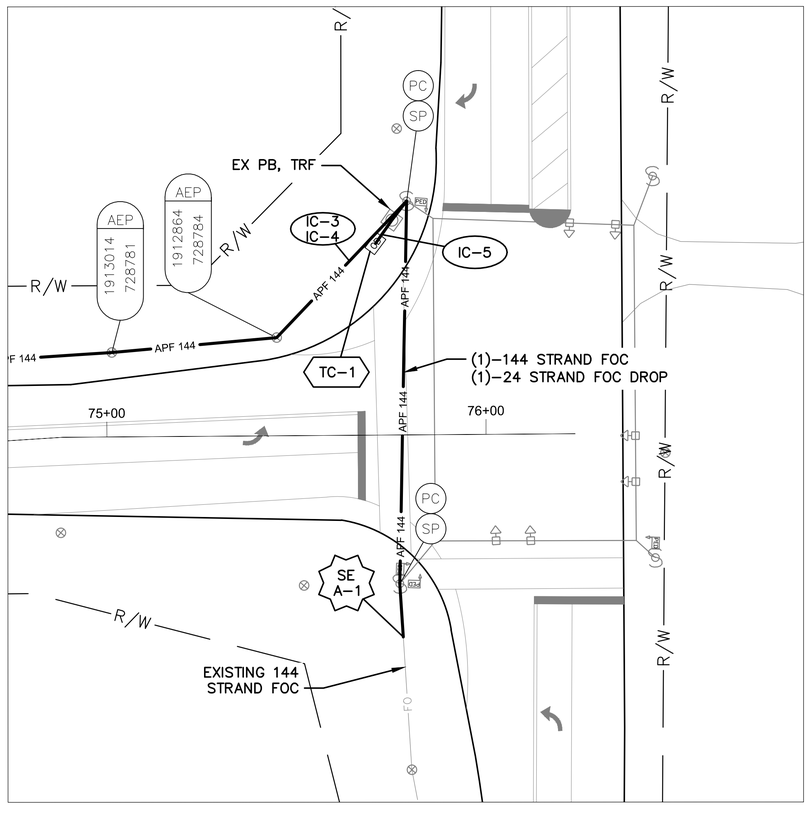
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TAYLOR RD BETWEEN STATION 61+00 AND 72+00



TAYLOR RD BETWEEN STATION 72+00 AND 76+23



DETAIL - INT SIG4875

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 530 FOR QUANTITIES.
2. SEE SHEETS 617 & 856 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 270 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
TAYLOR RD BETWEEN STA. 61+00 AND 76+23, INT SIG4875

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

529
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	632	632	632	632	632	632	632	633	633										
					EXISTING CONDUIT CLEANED, AS PER PLAN	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, 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										
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	EACH										
TAYLOR RD. BETWEEN STA. 6+00 AND 17+00, INT SIG4815																								
526	SE A-1	TAYLOR RD	7+03, 52' RT			75				1														
526	IC-1	TAYLOR RD	7+03, 52' RT	8+14, 50' RT		111	111																	
526	IC-3	TAYLOR RD	7+03, 52' RT	8+21, 55' RT			111				1													
526	IC-4	TAYLOR RD	8+14, 50' RT	8+21, 55' RT	16																			
526	IC-2	TAYLOR RD	8+14, 50' RT	17+00, 29' RT		900						900												
526	TC-1	TAYLOR RD	8+21, 55' RT										1											
TAYLOR RD. BETWEEN STA. 17+00 AND 39+00																								
527	IC-1	TAYLOR RD	17+00, 29' LT	39+00, 21' LT		2265						2265												
527	IC-2	TAYLOR RD	17+93, 23' RT			150																		
527	IC-3	TAYLOR RD	26+05, 22' RT			150																		
527	IC-4	TAYLOR RD	36+88, 24' LT			150																		
TAYLOR RD. BETWEEN STA. 39+00 AND 61+00																								
528	IC-1	TAYLOR RD	39+00, 21' LT	61+00, 35' LT		2227						2227												
528	IC-2	TAYLOR RD	46+75, 19' LT			150																		
528	IC-3	TAYLOR RD	57+11, 33' LT			150																		
TAYLOR RD. BETWEEN STA. 61+00 AND 76+23, INT SIG4875																								
529	IC-1	TAYLOR RD	61+00, 35' LT	75+44, 26' LT		1468						1468												
529	IC-2	TAYLOR RD	69+32, 38' LT			150																		
529	SE A-1	TAYLOR RD	75+44, 26' LT			75				1														
529	IC-3	TAYLOR RD	75+44, 26' LT	75+79, 62' LT							1	51												
529	IC-4	TAYLOR RD	75+44, 26' LT	75+71, 51' LT							1													
529	TC-1	TAYLOR RD	75+71, 51' LT										1											
529	IC-5	TAYLOR RD	75+71, 51' LT	75+79, 62' LT	14			14																
IR-270 AT HAMILTON RD, NODE #270037.4*																								
910	CN-1	HAMILTON RD										2	1											
IR-270 AT E BROAD ST, NODE #270039.5*																								
911	CN-1	E BROAD ST										2												
SHEET TOTAL					30	8021	222	14	1	1	2	6911	6	1	-	-	-	-	-	-	-	-	-	-

*NO PLAN SHEETS PROVIDED. SEE COMMUNICATION SHEETS FOR DETAILS.

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

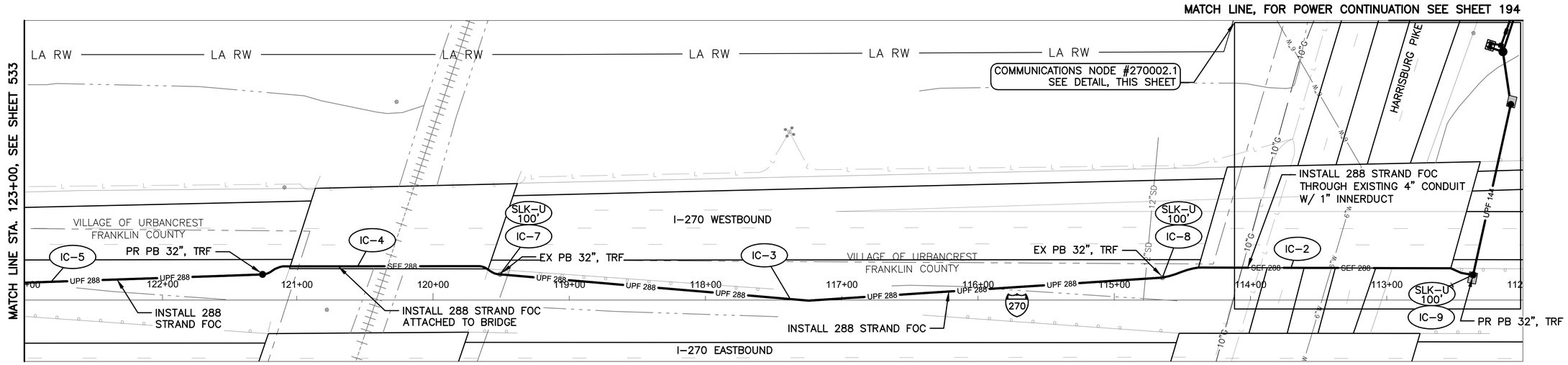
QUANTITIES WERE USED FOR DEVELOPING CONSTRUCTION COST ESTIMATES ONLY AND WERE NOT REVISED TO REFLECT CHANGES MADE DURING CONSTRUCTION.

CIP: 540007–100005
PID NUMBER: 14522

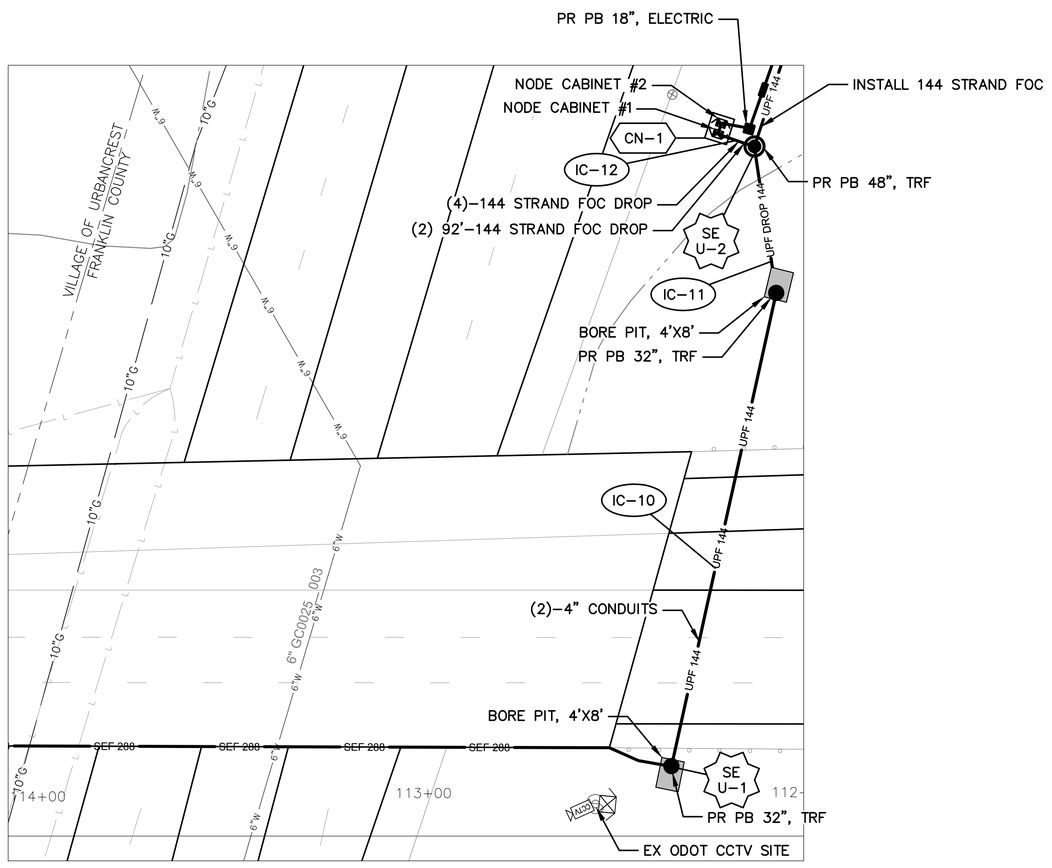
TAYLOR RD. BTW STA. 6+00 & 76+23
INTS SIG4815, SIG4875

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

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I-270 BETWEEN STATION 112+00 AND 123+00

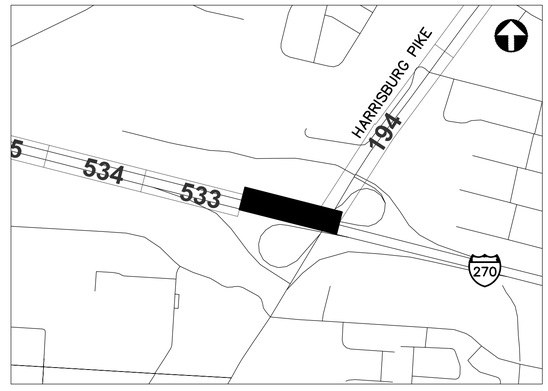


DETAIL - COMMUNICATIONS NODE #270002.1

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

1. SEE SHEET 532 FOR QUANTITIES.
2. SEE SHEETS 604 & 881 FOR COMMUNICATION DETAILS.
3. SEE SHEET 194 FOR HARRISBURG PIKE INTERCONNECT DETAILS.
4. SEE SHEET 293 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.



REFER TO SHEET 269 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

COMMUNICAITONS NODE PLAN
I-270 BETWEEN STA 112+00 AND 123+00, NODE #270002.1

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

531
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	625 CONDUIT, 4", 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 PULL BOX, 32", AS PER PLAN EACH	625 PULL BOX, 48", AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 144 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE TERMINATED FT	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER EACH	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU EACH	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH EACH			
IR-270 BETWEEN STA. 112+00 AND 123+00, NODE #270002.1																									
531	IC-10	IR-270	112+14, 109' RT	112+37, 18' RT		188		1						188											
531	IC-11	IR-270	112+14, 109' RT	112+24, 185' RT	168					84				168											
531	IC-12	IR-270	112+15, 182' RT	112+24, 185' RT	22									44											
531	SE U-2	IR-270	112+15, 182' RT						1		75	225		150		1									
531	CN-1	IR-270	112+24, 185' RT											40	1				2	1	5	1			
531	SE U-1	IR-270	112+37, 18' RT					1				225	75	150			1								
531	IC-1	IR-270	112+37, 18' RT	112+60, 21' LT	92			1		46			46												
531	IC-9	IR-270	112+60, 21' LT										100												
531	IC-2	IR-270	112+60, 21' LT	114+68, 22' LT			422						211												
531	IC-3	IR-270	114+68, 22' LT	119+50, 19' RT	968					484			484												
531	IC-8	IR-270	114+68, 22' LT										100												
531	IC-4	IR-270	119+50, 19' RT	121+25, 19' RT									177												
531	IC-7	IR-270	119+59, 21' LT										100												
531	IC-5	IR-270	121+25, 19' RT	123+00, 13' RT	350					175			175												
531	IC-6	IR-270	121+37, 22' LT										100												
SHEET TOTAL					1600	188	422	4	1	789	75	450	1568	740	1	1	1	2	1	5	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

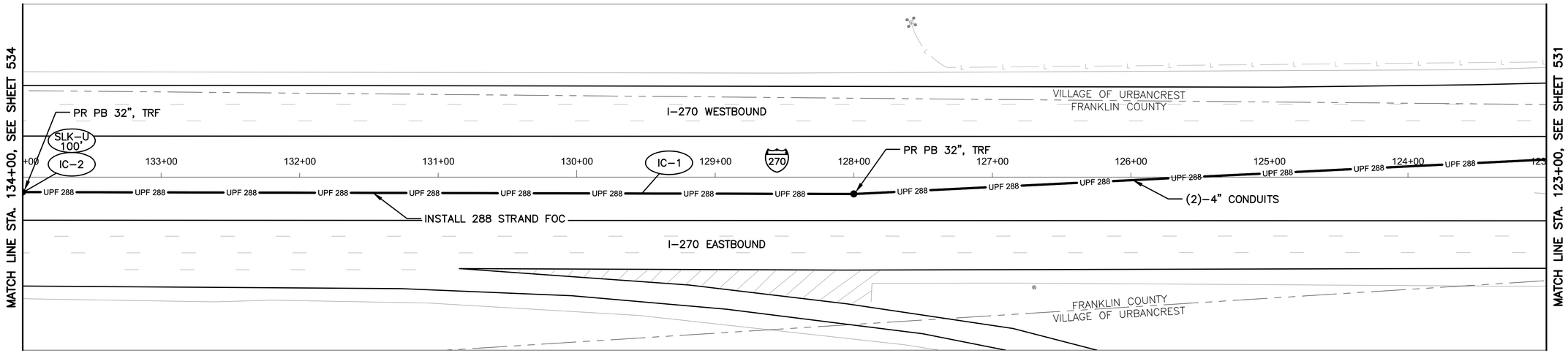
CIP: 540007-100005
PID NUMBER: 14522

IR-270 BTW STA. 112+00 AND 123+00
NODE #270002.1

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

532
911

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I-270 BETWEEN STATION 123+00 AND 134+00

NOTES:

1. SEE SHEET 543 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

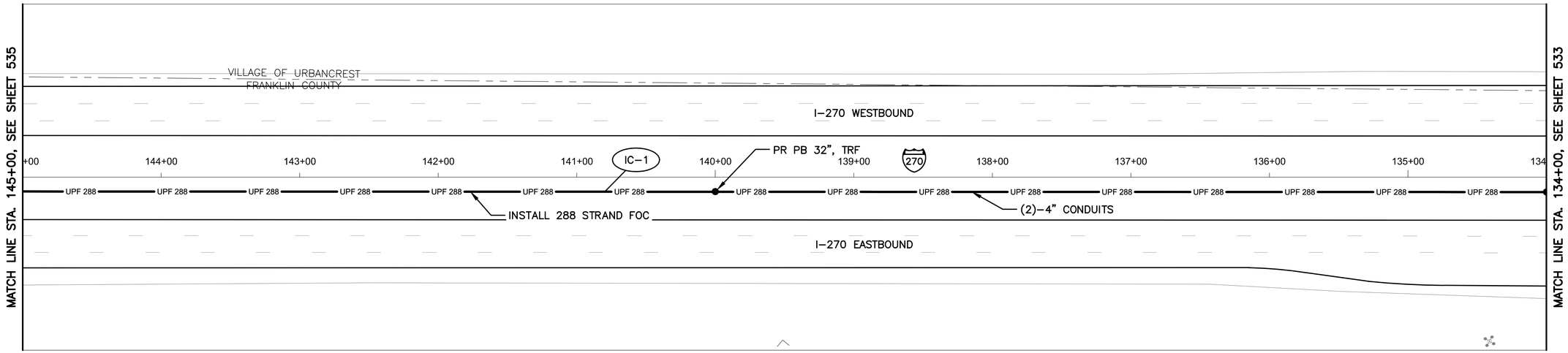
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PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 123+00 AND 134+00

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

533
911

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I-270 BETWEEN STATION 134+00 AND 145+00

NOTES:

1. SEE SHEET 543 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

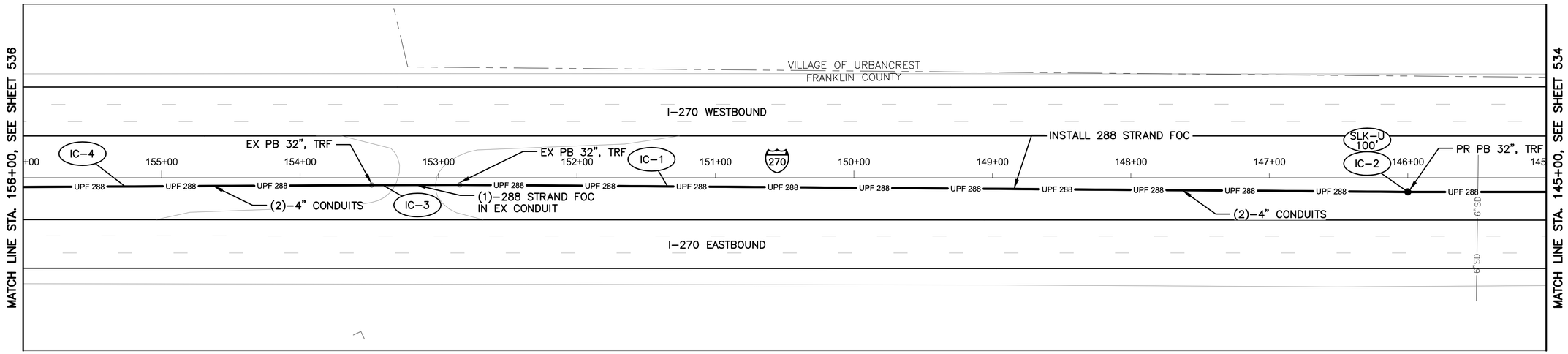
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 134+00 AND 145+00

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

534
911

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I-270 BETWEEN STATION 145+00 AND 156+00

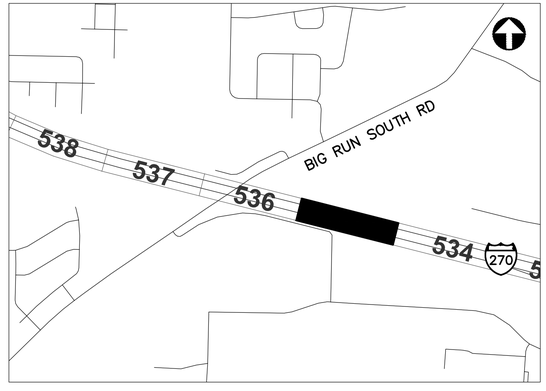
NOTES:

1. SEE SHEET 543 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0
40
80

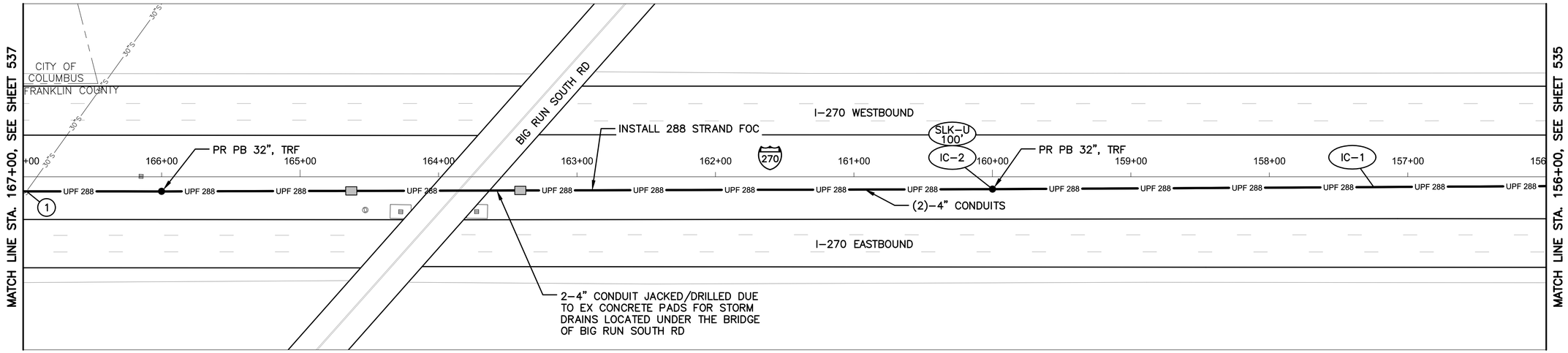
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PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 145+00 AND 156+00

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

535
911

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I-270 BETWEEN STATION 156+00 AND 167+00

NOTES:

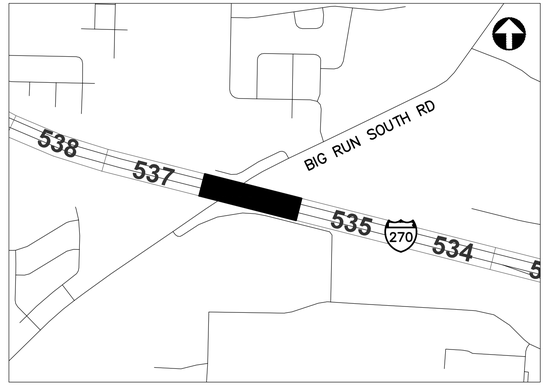
1. SEE SHEET 543 FOR QUANTITIES.
2. SEE SHEET 604 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

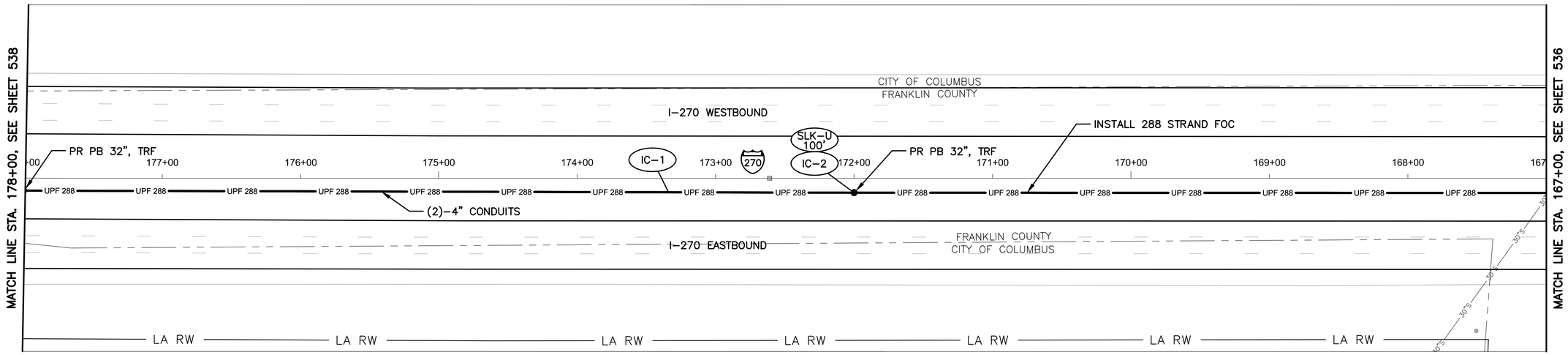
INTERCONNECT PLAN
I-270 BETWEEN STA. 156+00 AND 167+00

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

536
911

2953-E

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I-270 BETWEEN STATION 167+00 AND 178+00

NOTES:

1. SEE SHEET 543 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

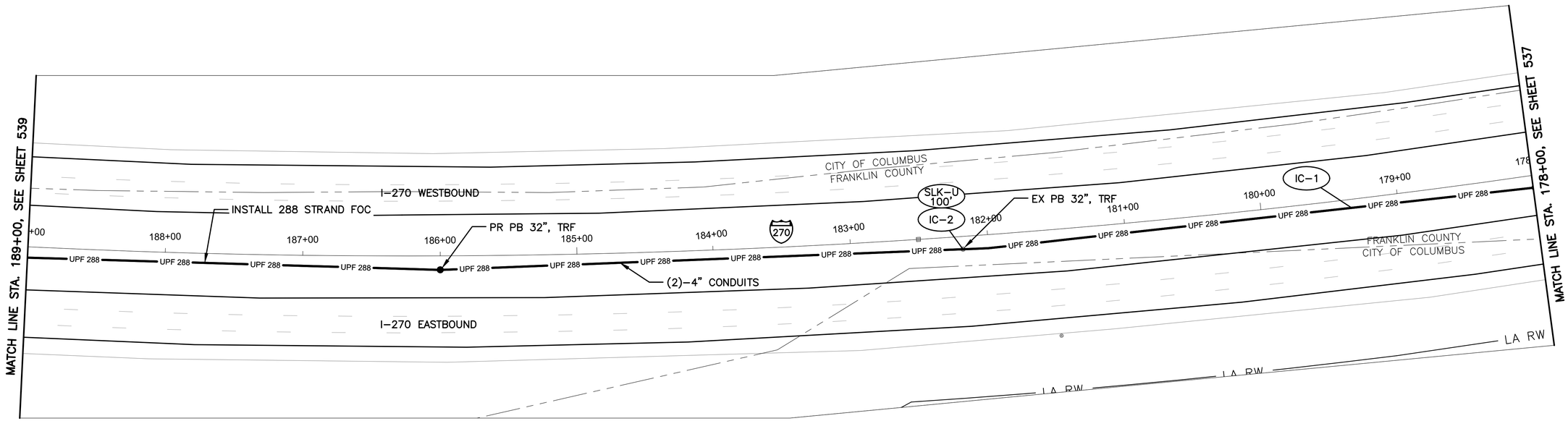
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PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 167+00 AND 178+00

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

537
911

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I-270 BETWEEN STATION 178+00 AND 189+00

NOTES:

1. SEE SHEET 543 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

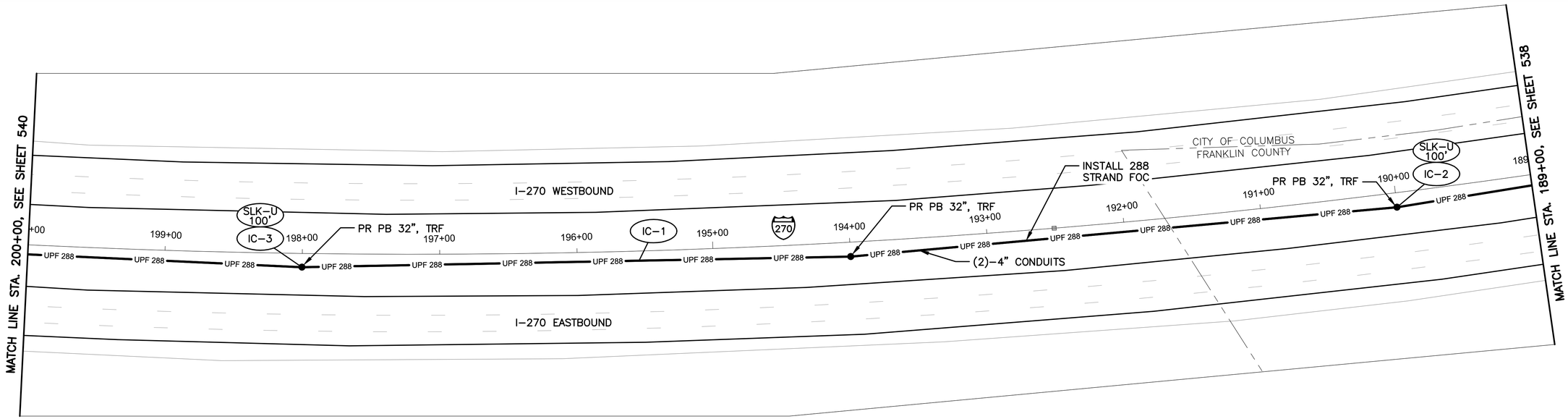
INTERCONNECT PLAN
I-270 BETWEEN STA. 178+00 AND 189+00

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

538
911

2953-E

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I-270 BETWEEN STATION 189+00 AND 200+00

NOTES:

1. SEE SHEET 543 FOR QUANTITIES.
2. SEE SHEET 602 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

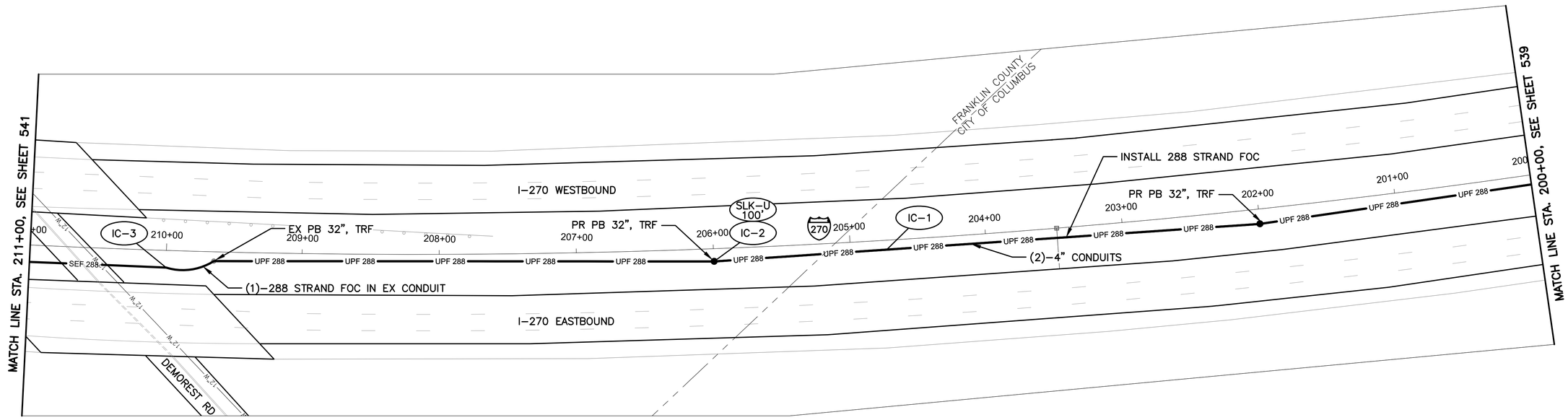
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PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 189+00 AND 200+00

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

539
911

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I-270 BETWEEN STATION 200+00 AND 211+00

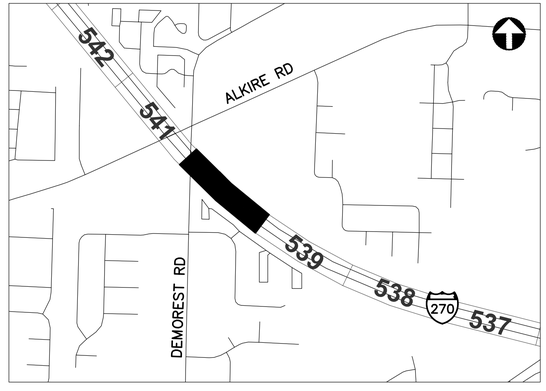
NOTES:

1. SEE SHEET 543 FOR QUANTITIES.
2. SEE SHEET 602 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

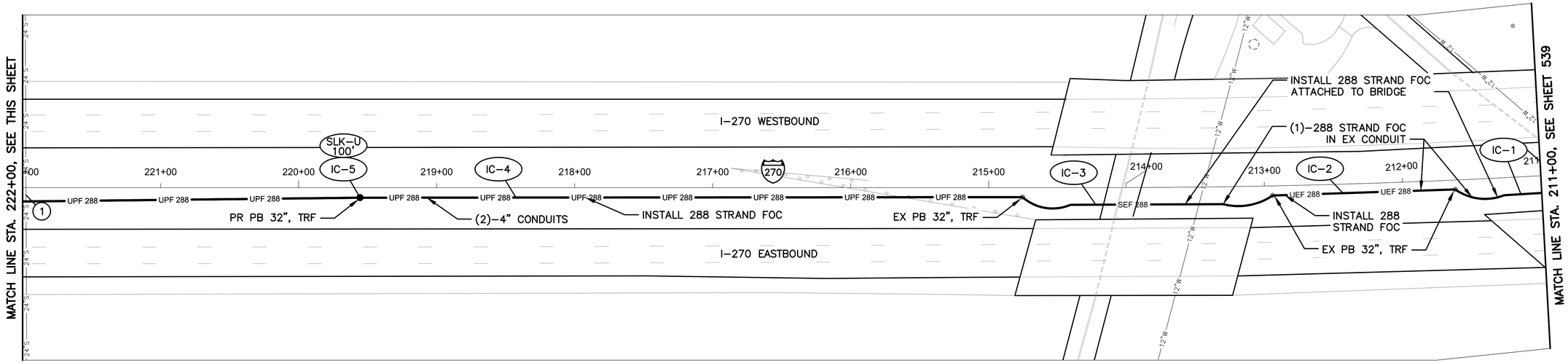
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 200+00 AND 211+00

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

540
911

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I-270 BETWEEN STATION 211+00 AND 222+00

NOTES:

1. SEE SHEET 543 FOR QUANTITIES.
2. SEE SHEET 602 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 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

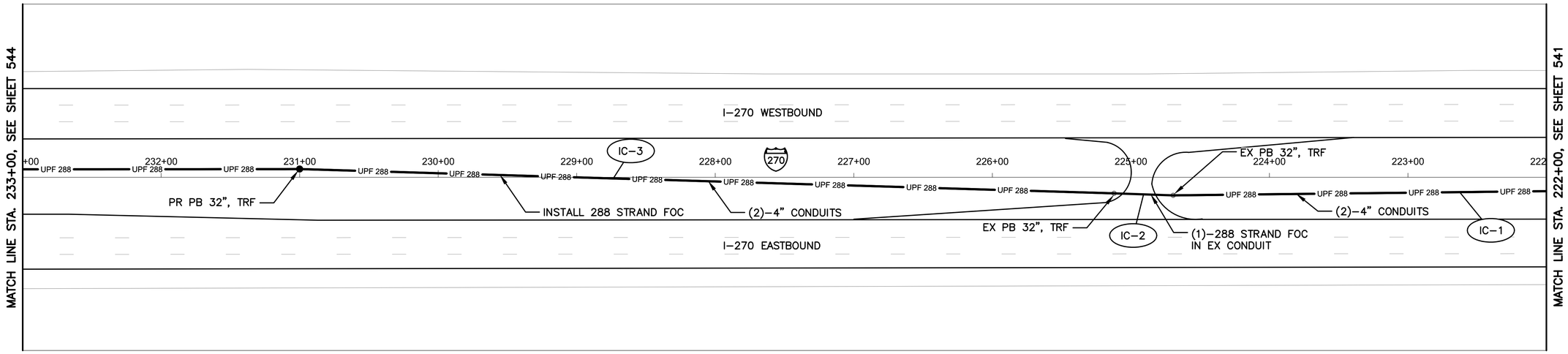
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 211+00 AND 222+00

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

541
911

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I-270 BETWEEN STATION 222+00 AND 233+00

NOTES:

1. SEE SHEET 543 FOR QUANTITIES.
2. SEE SHEET 602 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 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 269 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
I–270 BETWEEN STA. 222+00 AND 233+00

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

542
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, 4", AS PER PLAN FT	625 PULL BOX, 32", AS PER PLAN EACH	625 TRENCH, 36" DEEP, AS PER PLAN FT	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND FT
IR-270 BETWEEN STA. 123+00 AND 134+00									
533	IC-1	IR-270	123+00, 20' LT	145+00, 10' LT		2200	1	1100	1100
533	IC-2	IR-270	134+00, 11' LT				1		100
IR-270 BETWEEN STA. 134+00 AND 145+00									
534	IC-1	IR-270	134+00, 11' LT	145+00, 10' LT		2200	1	1100	1100
IR-270 BETWEEN STA. 145+00 AND 156+00									
535	IC-1	IR-270	145+00, 10' LT	152+84, 5' LT		1570		785	785
535	IC-2	IR-270	146+00, 10' LT				1		100
535	IC-3	IR-270	152+84, 5' LT	153+48, 5' LT	64				64
535	IC-4	IR-270	153+48, 5' LT	156+00, 7' LT		504		252	252
IR-270 BETWEEN STA. 156+00 AND 167+00									
536	IC-1	IR-270	156+00, 7' LT	167+00, 11' LT		2200	1	1100	1100
536	IC-2	IR-270	159+99, 9' LT				1		100
IR-270 BETWEEN STA. 167+00 AND 178+00									
537	IC-1	IR-270	167+00, 11' LT	178+00, 9' LT		2202	1	1101	1101
537	IC-2	IR-270	172+00, 10' LT				1		100
IR-270 BETWEEN STA. 178+00 AND 189+00									
538	IC-1	IR-270	178+00, 9' LT	189+00, 8' LT		2202	1	1101	1101
538	IC-2	IR-270	182+00, 10' LT				1		100
IR-270 BETWEEN STA. 189+00 AND 200+00									
539	IC-1	IR-270	189+00, 8' LT	200+00, 7' LT		2288	1	1144	1144
539	IC-2	IR-270	190+00, 11' LT				1		100
539	IC-3	IR-270	197+99, 10' LT				1		100
IR-270 BETWEEN STA. 200+00 AND 211+00									
540	IC-1	IR-270	200+00, 7' LT	209+65, 7' LT		1848	1	924	924
540	IC-2	IR-270	205+99, 9' LT				1		100
540	IC-3	IR-270	209+65, 7' LT	211+00, 12' LT	148				148
IR-270 BETWEEN STA. 211+00 AND 222+00									
541	IC-1	IR-270	211+00, 12' LT	211+62, 7' LT	73				73
541	IC-2	IR-270	211+62, 7' LT	212+94, 7' LT	133				133
541	IC-3	IR-270	212+94, 7' LT	214+75, 7' LT	204				204
541	IC-4	IR-270	214+75, 7' LT	222+00, 5' RT		1448		724	724
541	IC-5	IR-270	220+00, 7' LT				1		100
IR-270 BETWEEN STA. 222+00 AND 233+00									
542	IC-1	IR-270	222+00, 5' RT	224+69, 3' RT		540		270	270
542	IC-2	IR-270	224+69, 3' RT	225+14, 1' RT	45				45
542	IC-3	IR-270	225+14, 1' RT	233+00, 7' LT		1572	1	786	786
SHEET TOTAL					667	20774	17	10387	11954

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

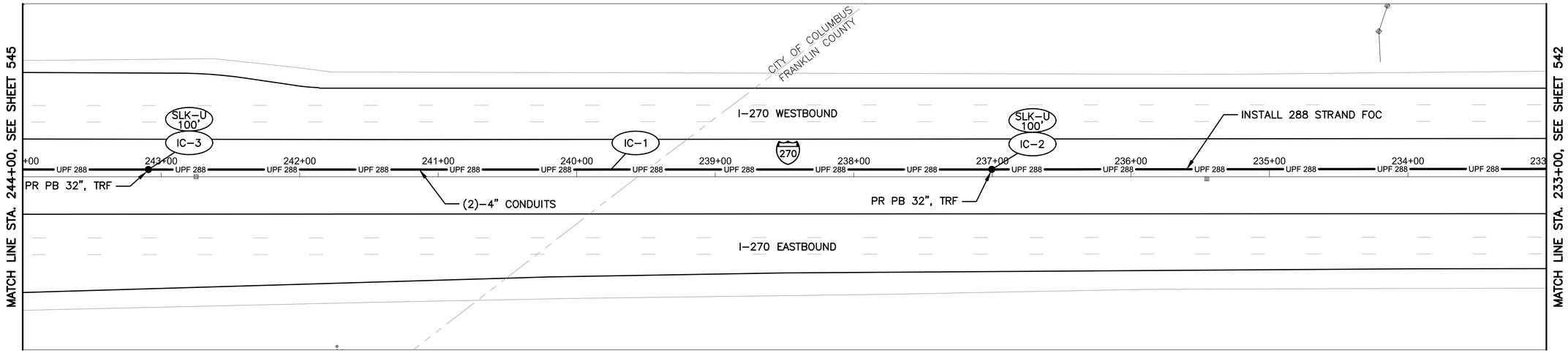
CIP: 540007–100005
PID NUMBER: 14522

IR–270 BTW STA. 123+00 AND 233+00

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

543
911

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I-270 BETWEEN STATION 233+00 AND 244+00

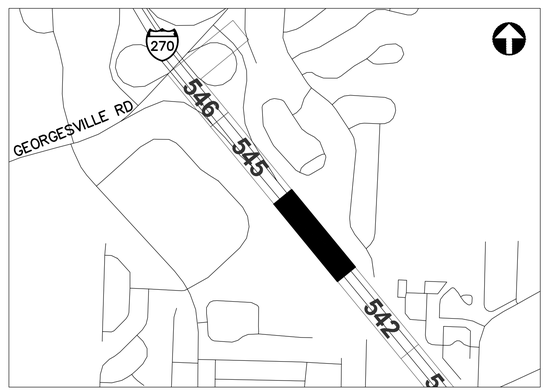
NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEET 602 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 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0
40
80

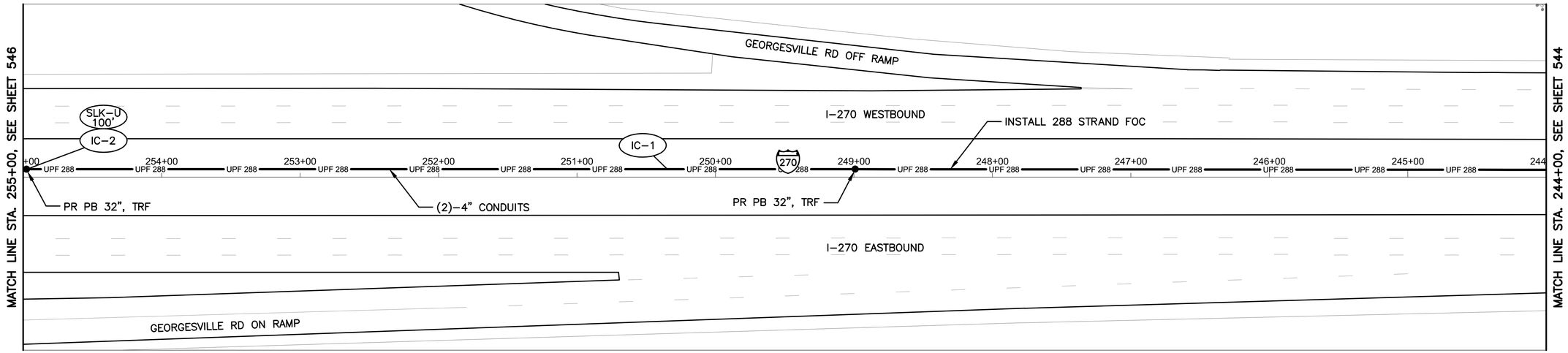
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 233+00 AND 244+00

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

544
911

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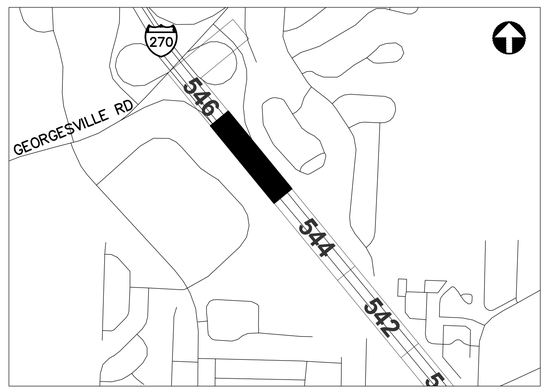
I-270 BETWEEN STATION 244+00 AND 255+00

NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEET 602 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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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

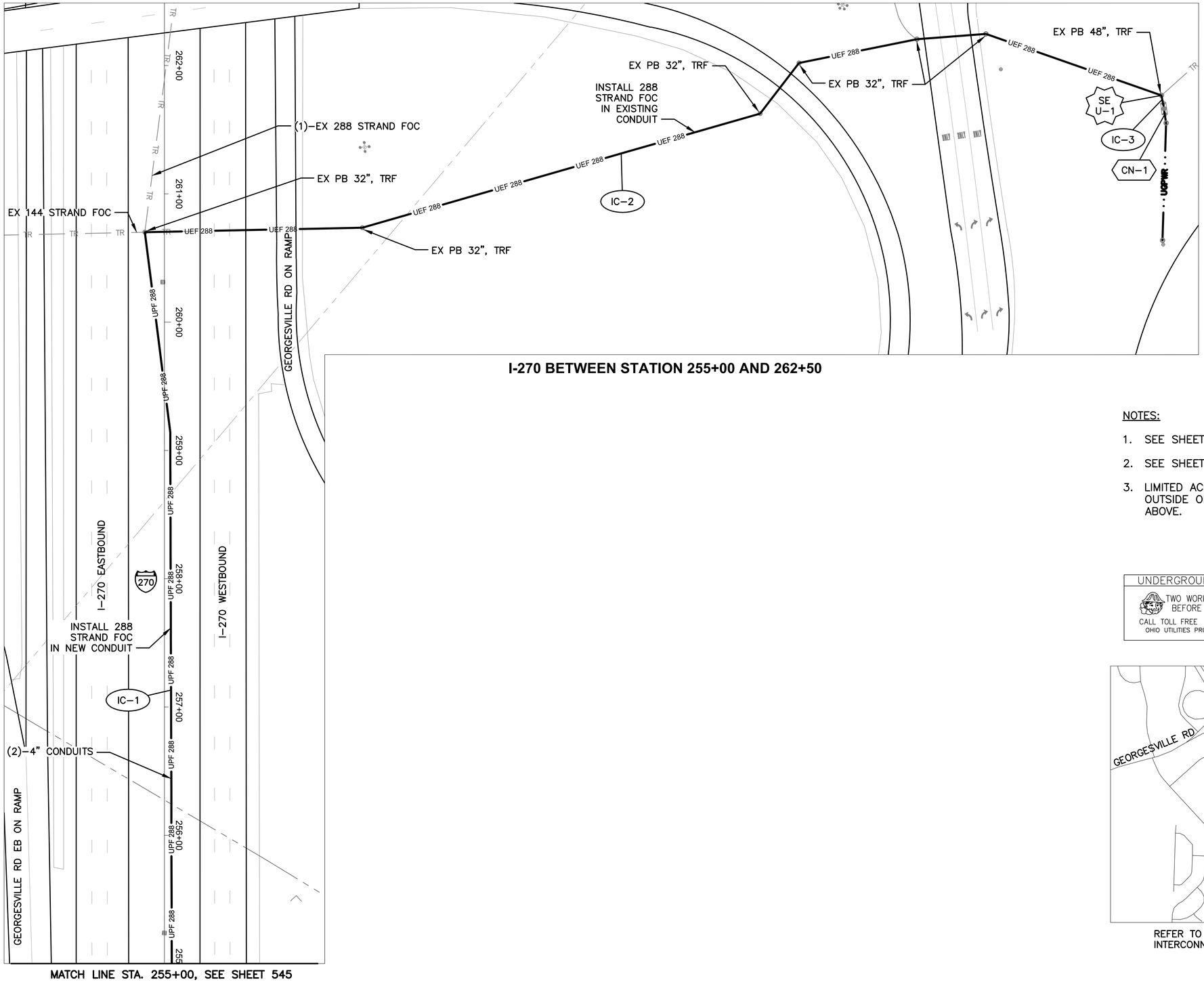
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PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 244+00 AND 255+00

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

545
911

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I-270 BETWEEN STATION 255+00 AND 262+50

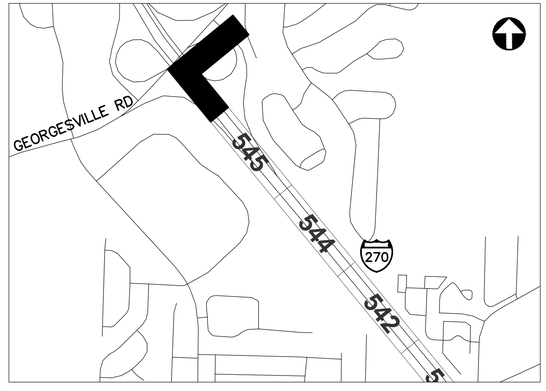
MATCH LINE STA. 255+00, SEE SHEET 545

NOTES:

1. SEE SHEET 547 FOR QUANTITIES.
2. SEE SHEET 602 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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CITY OF COLUMBUS UTILITY LEGEND
- ☐ SEWER
- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



REFER TO SHEET 269 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
I–270 BETWEEN STA. 255+00 AND 262+50

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

546
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, 4", AS PER PLAN (FT)	625 PULL BOX, 32", AS PER PLAN (EACH)	625 TRENCH, 36" DEEP, AS PER PLAN (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)									
IR-270 BETWEEN STA. 233+00 AND 244+00																									
544	IC-1	IR-270	233+00, 7' LT	244+00, 7' LT		2200		1100		1100															
544	IC-2	IR-270	236+99, 7' LT				1			100															
544	IC-3	IR-270	242+99, 7' LT				1			100															
IR-270 BETWEEN STA. 244+00 AND 255+00																									
545	IC-1	IR-270	244+00, 7' LT	255+00, 8' LT		2202	1	1101		1101															
545	IC-2	IR-270	254+99, 8' LT				1			100															
IR-270 BETWEEN STA. 255+00 AND 262+50, NODE #270004.5																									
546	IC-1	IR-270	255+00, 8' LT	260+70, 21' RT		1142		571		571															
546	IC-2	IR-270	260+70, 21' RT	262+23, 777' RT	798					798															
546	IC-3	IR-270	261+69, 779' RT	261+77, 777' RT	8					16															
546	CN-1	IR-270	261+69, 779' RT							20						1									
546	SE U-1	IR-270	261+77, 777' RT						225	75	150	1	1	2											
SHEET TOTAL					806	5544	4	2772	225	3945	186	1	1	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

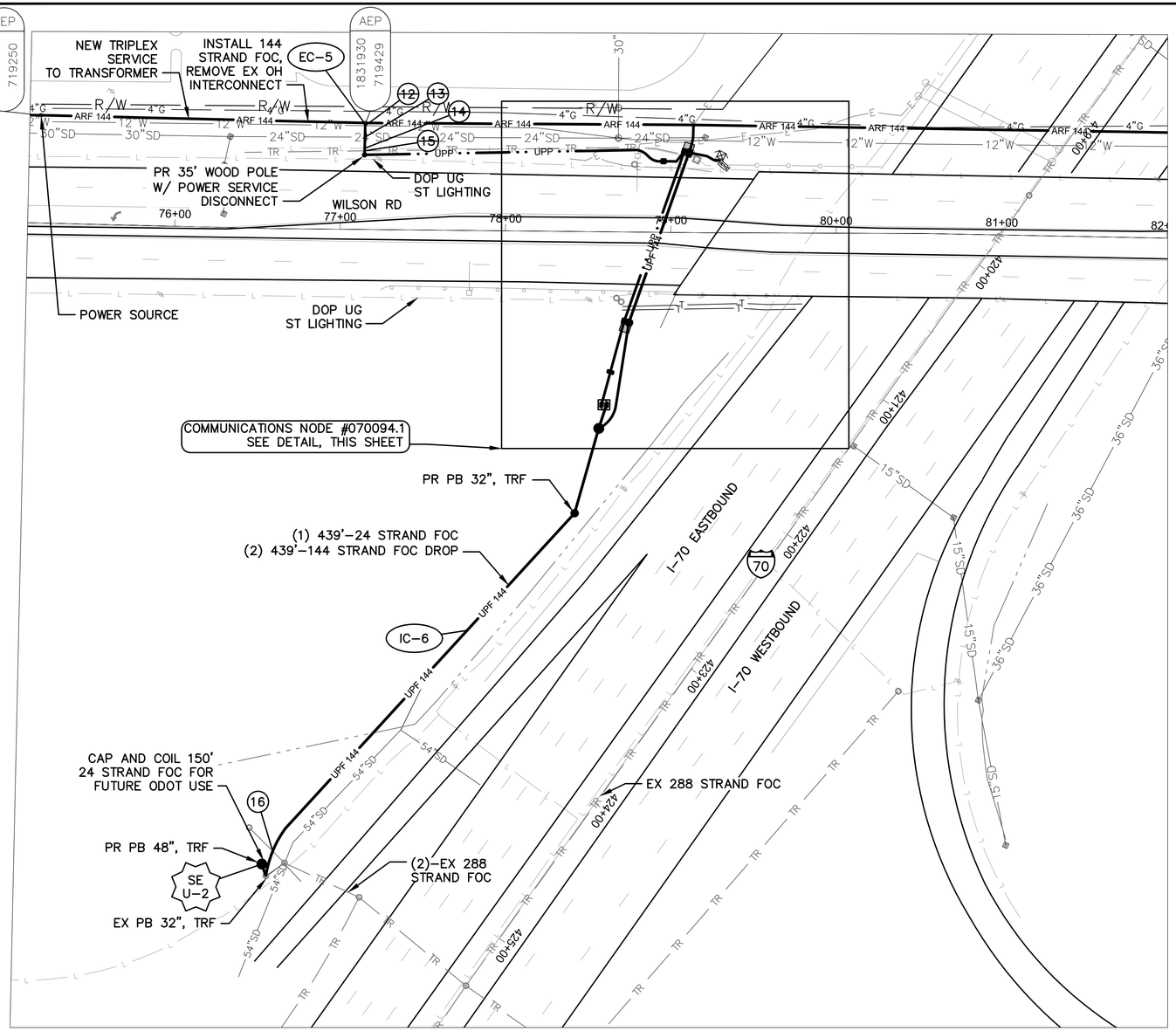
CIP: 540007–100005
PID NUMBER: 14522

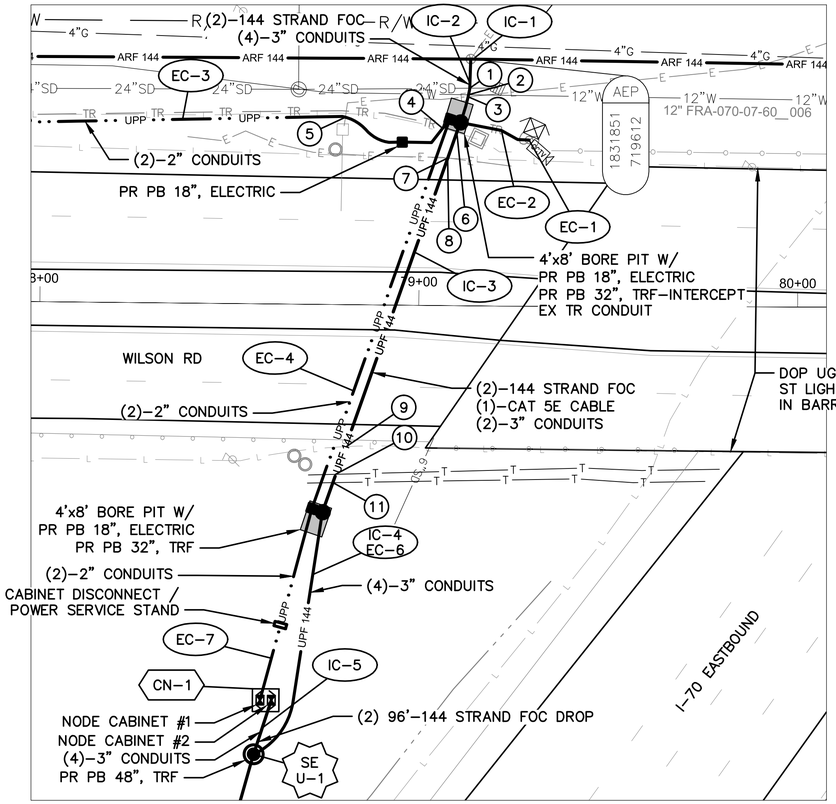
IR–270 BTW STA. 233+00 AND 262+50
NODE #270004.5

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

547
911

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DETAIL - COMMUNICATIONS NODE #070094.1

0 20 40
HORIZONTAL SCALE IN FEET

I-70 BETWEEN STATION 420+00 AND 425+00

NOTES:

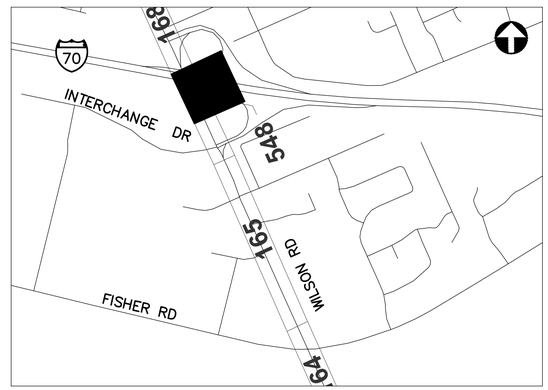
1. SEE SHEETS 549 & 550 FOR QUANTITIES.
2. SEE SHEETS 599 & 865 FOR COMMUNICATION DETAILS.
3. SEE SHEET 167 FOR WILSON RD INTERCONNECT DETAILS.
4. SEE SHEET 286 FOR POWER SERVICE DETAILS.
5. SEE SHEET 38 FOR INTERCEPTING EXISTING CONDUIT DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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

☒	SEWER
☒	WATER
☐	POWER
☒	LIGHTING



REFER TO SHEET 268 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
I-70 BETWEEN STA. 420+00 AND 425+00, NODE #070094.1

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

548
911

J:\Jobs\50696\TECHPROD\Sheets\CTSS_PhC_70_WILSON.dwg - I70_WILSON 1 layout - last saved by: sdlowry 04/28/2017 03:28pm - printed 05/08/2017 11:53pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE F, AS PER PLAN	PULL BOX, 18", AS PER PLAN	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	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.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH
IR-70 BETWEEN STA. 420+00 AND 425+00, NODE #070094.1																								
548	IC-1	IR-70	420+31, 190' RT														2	70						
548	IC-2	IR-70	420+31, 190' RT	420+46, 182' RT			68									17		34						
548	EC-1	IR-70	420+39, 165' RT																					
548	EC-2	IR-70	420+39, 165' RT	420+46, 182' RT	19																			
548	IC-3	IR-70	420+46, 182' RT	421+51, 152' RT					436					2				218						
548	EC-3	IR-70	420+47, 185' RT	421+45, 352' RT		436				218	872	1	2			218								
548	EC-4	IR-70	420+47, 185' RT	421+52, 155' RT					109	109	327		2											
548	EC-5	IR-70	421+45, 352' RT							35	105						2							
548	IC-4	IR-70	421+51, 152' RT	422+14, 130' RT			276									69		138						
548	EC-6	IR-70	421+51, 152' RT	422+14, 130' RT																				
548	EC-7	IR-70	421+52, 155' RT	422+01, 137' RT		52				52	156					52								
548	CN-1	IR-70	422+00, 136' RT																	40	10	1		
548	IC-5	IR-70	422+00, 136' RT	422+14, 130' RT			60									15				60	15			
548	SE U-1	IR-70	422+14, 130' RT												1			150	300	150	75		1	1
548	IC-6	IR-70	422+14, 130' RT	425+45, 143' RT				696						2		348			348	696				
548	SE U-2	IR-70	425+45, 143' RT												1				300	150				
SHEET TOTAL					19	488	404	696	545	414	1460	1	4	4	2	719	4	610	948	1096	100	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

CIP: 540007–100005
PID NUMBER: 14522

1 OF 2 – IR–70 BTW STA. 420+00 AND 425+00
NODE #070094.1

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

549
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_J70_WILSON_QUANTITIES.dwg – WILSON_J–70 layout ~ last saved by: gburch 10/17/2014 08:31am ~ printed 05/08/2017 11:54pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	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, 1 RU EACH	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU EACH	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED FT	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE 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.: LAYER 3 ETHERNET SWITCH EACH
IR-70 BETWEEN STA. 420+00 AND 425+00, NODE #070094.1													
548	IC-1	IR-70	420+31, 190' RT										
548	IC-2	IR-70	420+31, 190' RT	420+46, 182' RT									
548	EC-1	IR-70	420+39, 165' RT						45				
548	EC-2	IR-70	420+39, 165' RT	420+46, 182' RT					19				
548	IC-3	IR-70	420+46, 182' RT	421+51, 152' RT									
548	EC-3	IR-70	420+47, 185' RT	421+45, 352' RT									
548	EC-4	IR-70	420+47, 185' RT	421+52, 155' RT									
548	EC-5	IR-70	421+45, 352' RT										
548	IC-4	IR-70	421+51, 152' RT	422+14, 130' RT									
548	EC-6	IR-70	421+51, 152' RT	422+14, 130' RT					69				
548	EC-7	IR-70	421+52, 155' RT	422+01, 137' RT									
548	CN-1	IR-70	422+00, 136' RT		2	1	1	10	1	10	1	1	
548	IC-5	IR-70	422+00, 136' RT	422+14, 130' RT									
548	SE U-1	IR-70	422+14, 130' RT										
548	IC-6	IR-70	422+14, 130' RT	425+45, 143' RT									
548	SE U-2	IR-70	425+45, 143' RT		1								
SHEET TOTAL					1	2	1	1	143	1	10	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

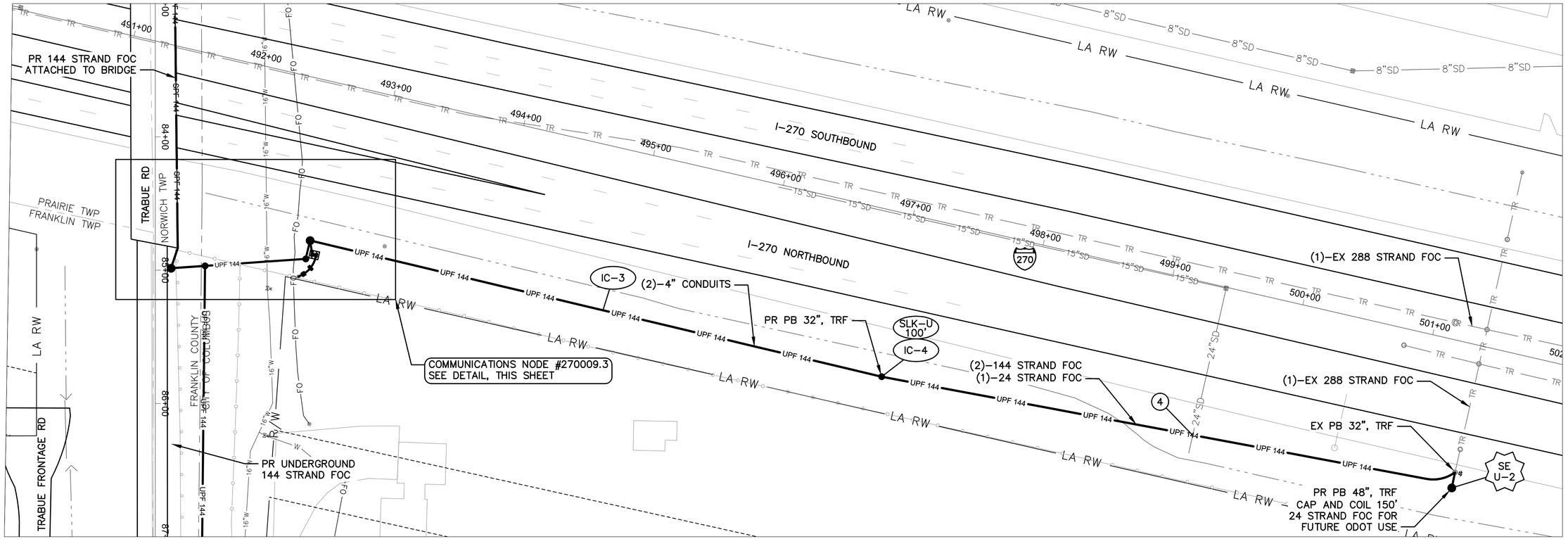
CIP: 540007-100005
PID NUMBER: 14522

2 OF 2 - IR-70 BTW STA. 420+00 AND 425+00
NODE #070094.1

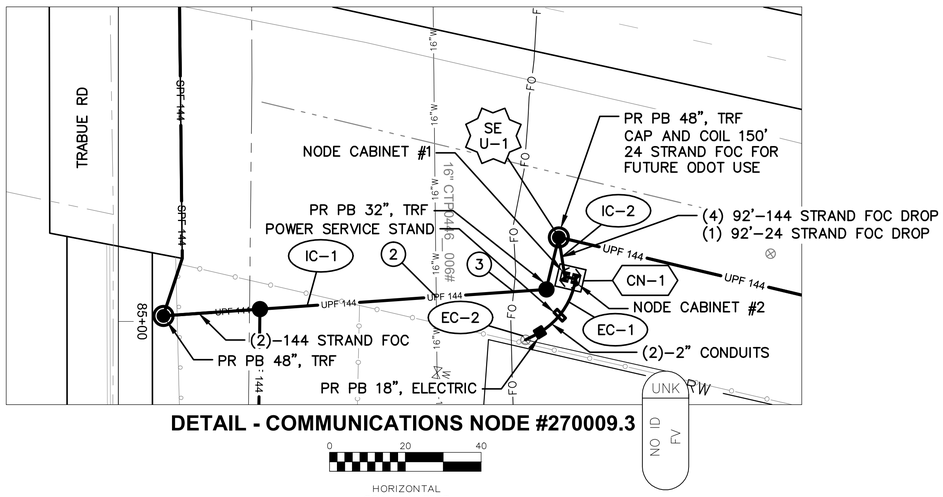
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

550
911

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I-270 BETWEEN STATION 490+00 AND 502+00



DETAIL - COMMUNICATIONS NODE #270009.3

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

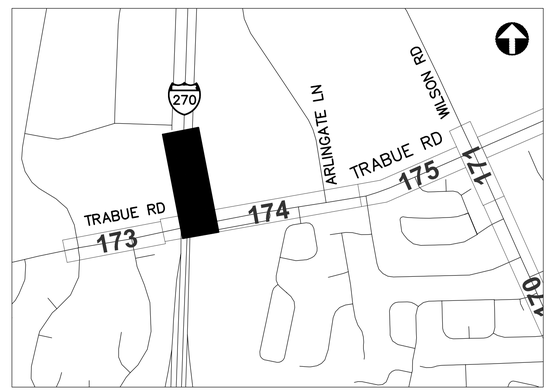
1. SEE SHEET 552 FOR QUANTITIES.
2. SEE SHEETS 599 & 886 FOR COMMUNICATION DETAILS.
3. SEE SHEET 174 FOR INTERCONNECT DETAILS.
4. UTILITY CROSSING #1 IS SHOWN ON INTERCONNECT SHEET 174.
5. SEE SHEET 290 FOR POWER SERVICE DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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 268 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
I-270 BETWEEN STA. 490+00 AND 502+00, NODE #270009.3

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

551
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	625 POWER SERVICE, TYPE D, AS PER PLAN	625 PULL BOX, 18", AS PER PLAN	625 PULL BOX, 32", 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 CABLE, 24 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, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 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, 288 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
IR-270 BETWEEN STA. 490+00 AND 502+00, NODE #270009.3																								
551	IC-1	IR-270	491+66, 164' RT	492+63, 85' RT		300					1		150		300									
551	EC-1	IR-270	492+61, 148' RT	492+68, 94' RT	126		63	189	1	1			63											
551	EC-2	IR-270	492+61, 148' RT				35	105						2										
551	SE U-1	IR-270	492+63, 85' RT									1			300	300	300	75		1	1			
551	IC-2	IR-270	492+63, 85' RT	492+68, 94' RT		22							11				44	11						
551	IC-3	IR-270	492+63, 85' RT	501+40, 104' RT		1762							881		1762	881								
551	CN-1	IR-270	492+68, 94' RT														40	10	1			2	1	1
551	IC-4	IR-270	497+03, 85' RT								1					100								
551	SE U-2	IR-270	501+40, 104' RT									1			150	300					1			
SHEET TOTAL					126	2084	98	294	1	1	2	2	1105	2	2512	1581	384	96	1	1	2	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

1 OF 2 – IR–270 BTW STA. 490+00 AND 502+00
NODE #270009.3

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

552
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE EACH	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH EACH
IR-270 BETWEEN STA. 490+00 AND 502+00, NODE #270009.3							
551	IC-1	IR-270	491+66, 164' RT	492+63, 85' RT			
551	EC-1	IR-270	492+61, 148' RT	492+68, 94' RT			
551	EC-2	IR-270	492+61, 148' RT				
551	SE U-1	IR-270	492+63, 85' RT				
551	IC-2	IR-270	492+63, 85' RT	492+68, 94' RT			
551	IC-3	IR-270	492+63, 85' RT	501+40, 104' RT			
551	CN-1	IR-270	492+68, 94' RT		1	8	1
551	IC-4	IR-270	497+03, 85' RT				
551	SE U-2	IR-270	501+40, 104' RT				
SHEET TOTAL					1	8	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

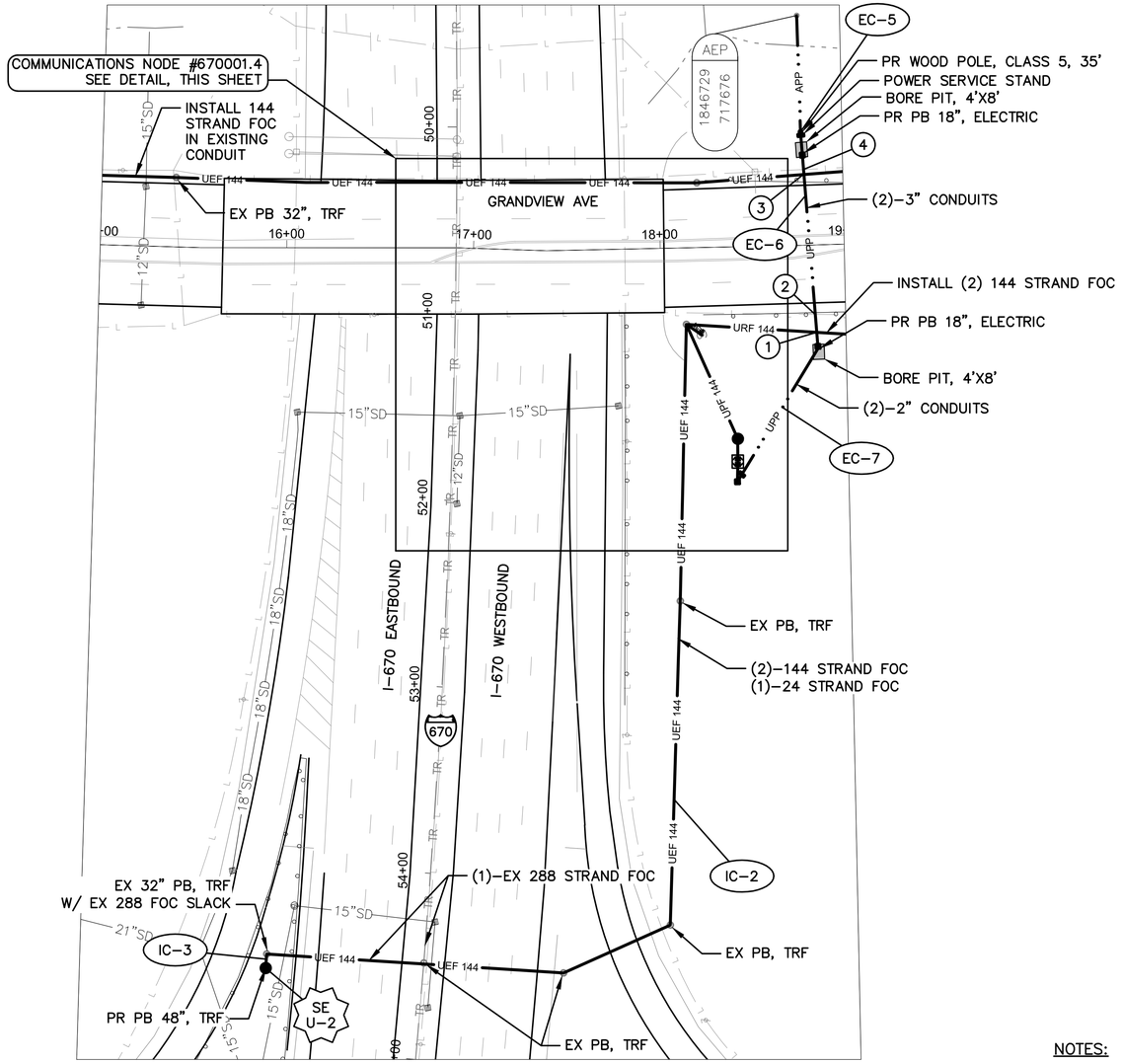
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – IR–270 BETWEEN STA. 490+00 AND 502+00
NODE #270009.3

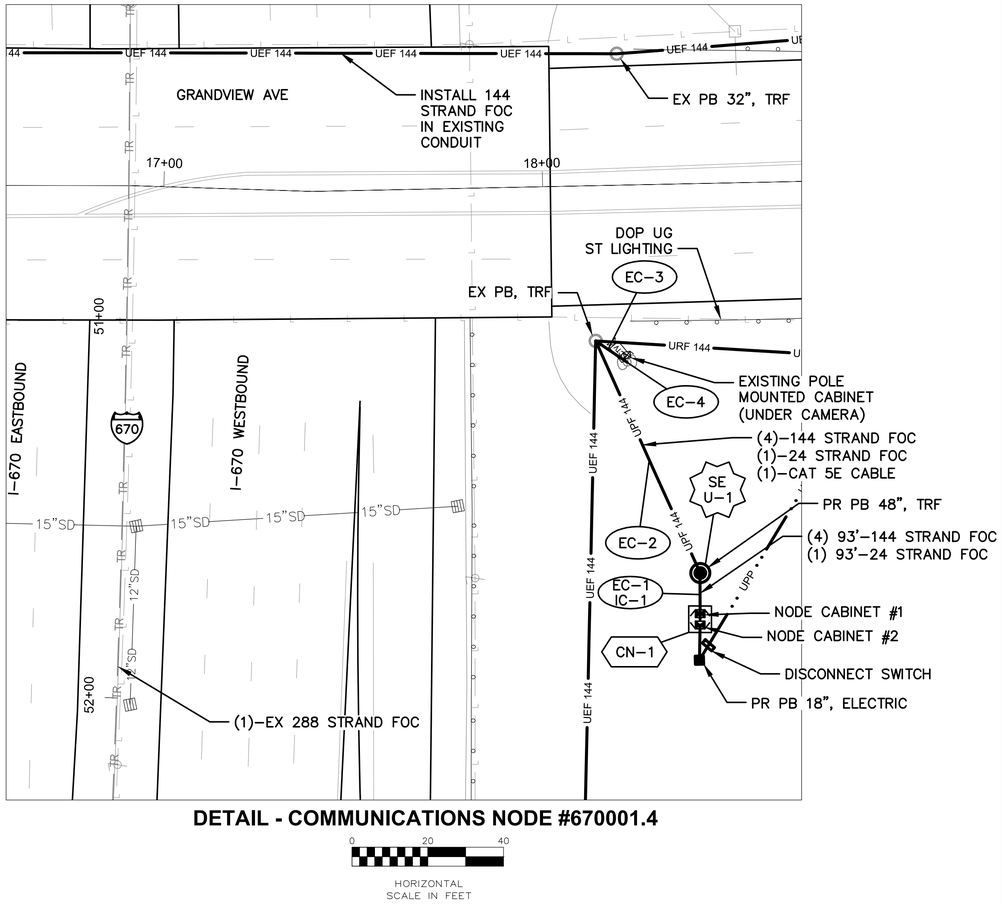
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

553
911

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GRANDVIEW AVE BETWEEN STATION 15+00 AND 18+50
AND I-670 BETWEEN STATION 50+00 AND 55+00



DETAIL - COMMUNICATIONS NODE #670001.4

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

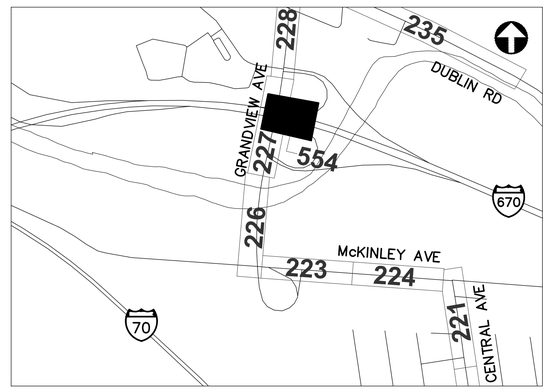
1. SEE SHEETS 555 & 556 FOR QUANTITIES.
2. SEE SHEETS 601 & 892 FOR COMMUNICATION DETAILS.
3. SEE SHEET 227 FOR INTERCONNECT DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
5. SEE SHEET 297 FOR POWER SERVICE DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 275.

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 268 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
GRANDVIEW AVE BETWEEN STA. 15+00 AND 18+50, NODE #670001.4

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

554
911

J:\Jobs\59806\TECHPROD\Sheets\CTSS_PhC_I670_GRANDVIEW.dwg – I-670 & GRANDVIEW layout – last saved by: edlowry 05/08/2017 07:14pm – printed 05/08/2017 11:56pm

ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE A, AS PER PLAN	PULL BOX, 18", 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.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU
			FROM	TO	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH
IR-670 BETWEEN STA. 50+00 AND 55+00, NODE #670001.4																								
554	SE U-2	GRANDVIEW AVE	15+89, 386' RT										1			150	300					1		
554	IC-2	GRANDVIEW AVE	15+89, 378' RT	18+39, 103' RT	543											1222	611							
554	IC-3	GRANDVIEW AVE	15+89, 378' RT	15+89, 386' RT			16							8		16	8							
554	EC-7	GRANDVIEW AVE	17+90, 115' RT	18+83, 35' RT		268			134	402		1		134										
554	EC-2	GRANDVIEW AVE	18+12, 41' RT	18+39, 103' RT																				
554	EC-3	GRANDVIEW AVE	18+12, 41' RT	18+21, 48' RT	11																			
554	EC-4	GRANDVIEW AVE	18+21, 48' RT																					
554	SE U-1	GRANDVIEW AVE	18+39, 103' RT										1			300	300	300	75		1	1		
554	IC-1	GRANDVIEW AVE	18+39, 103' RT	18+40, 115' RT			24							12				48	12					
554	EC-1	GRANDVIEW AVE	18+39, 103' RT	18+40, 115' RT																				
554	CN-1	GRANDVIEW AVE	18+40, 115' RT															40	10	1			2	1
554	EC-5	GRANDVIEW AVE	18+77, 50' LT						35	105	1				2									
554	EC-6	GRANDVIEW AVE	18+77, 50' LT	18+83, 35' RT				232	116	348		2												
SHEET TOTAL					554	268	40	232	285	855	1	3	2	154	2	1688	1219	388	97	1	1	2	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

1 OF 2 – GRANDVIEW AVE. BTW STA. 15+00 AND 18+50
NODE #670001.4

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

555
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	632 WOOD POLE, CLASS 5, 35 FT	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH													
			FROM	TO	EACH	FT	EACH	EACH	EACH	EACH													
IR-670 BETWEEN STA. 50+00 AND 55+00, NODE #670001.4																							
554	SE U-2	GRANDVIEW AVE	15+89, 378' RT																				
554	IC-2	GRANDVIEW AVE	15+89, 378' RT	18+39, 103' RT																			
554	IC-3	GRANDVIEW AVE	15+89, 378' RT	15+89, 386' RT																			
554	EC-7	GRANDVIEW AVE	17+90, 115' RT	18+83, 35' RT																			
554	EC-2	GRANDVIEW AVE	18+12, 41' RT	18+39, 103' RT		74																	
554	EC-3	GRANDVIEW AVE	18+12, 41' RT	18+21, 48' RT		11																	
554	EC-4	GRANDVIEW AVE	18+21, 48' RT			10																	
554	SE U-1	GRANDVIEW AVE	18+39, 103' RT																				
554	IC-1	GRANDVIEW AVE	18+39, 103' RT	18+40, 115' RT																			
554	EC-1	GRANDVIEW AVE	18+39, 103' RT	18+40, 115' RT		12																	
554	CN-1	GRANDVIEW AVE	18+40, 115' RT		1	10		1	8	1													
554	EC-5	GRANDVIEW AVE	18+77, 50' LT				1																
554	EC-6	GRANDVIEW AVE	18+77, 50' LT	18+83, 35' RT																			
SHEET TOTAL					1	117	1	1	8	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

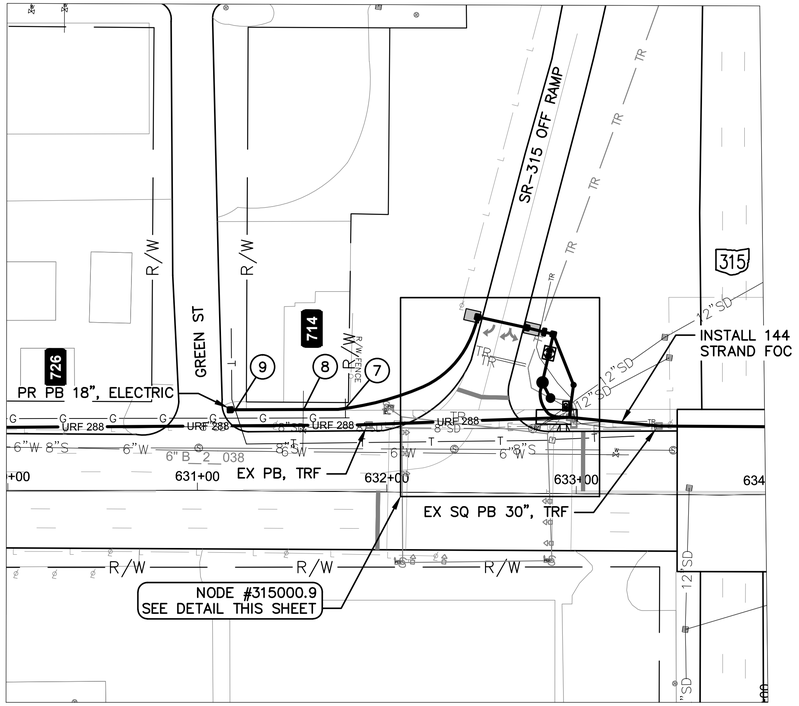
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – GRANDVIEW AVE. BTW STA. 15+00 AND 18+50
NODE #670001.4

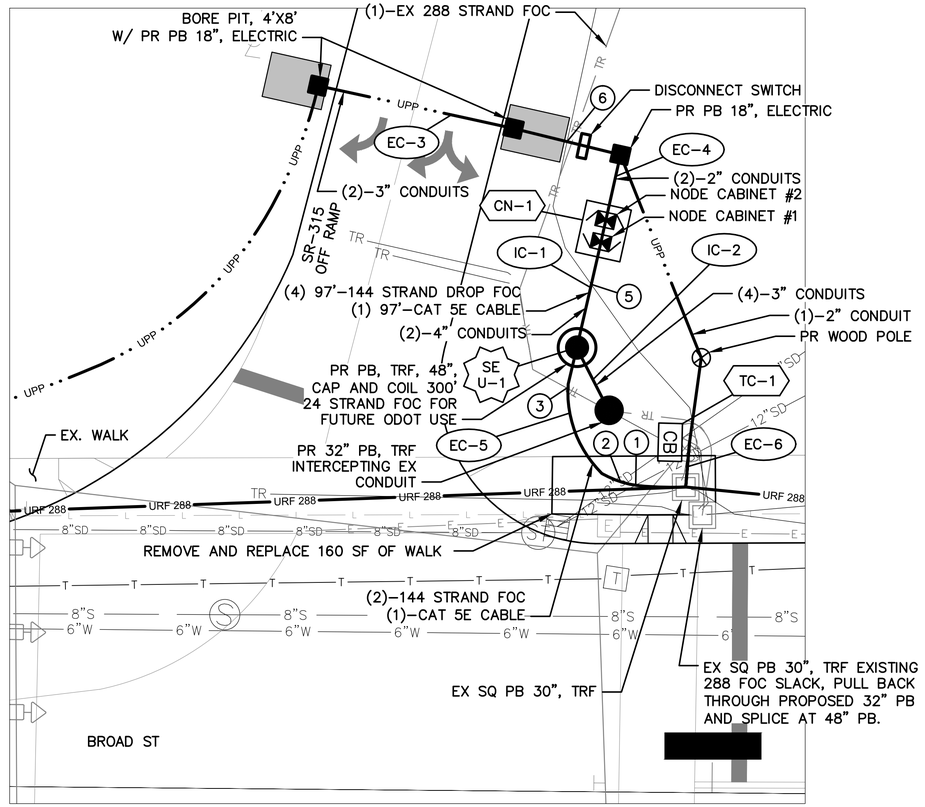
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

556
911

J:\Jobs\50806\TECHPROD\Sheets\CTSS_PhC_I670_GRANDVIEW_QUANTITIES.dwg – GRANDVIEW_I670_1B layout ~ last saved by: gburch 12/09/2014 11:34am ~ printed 05/08/2017 11:57am

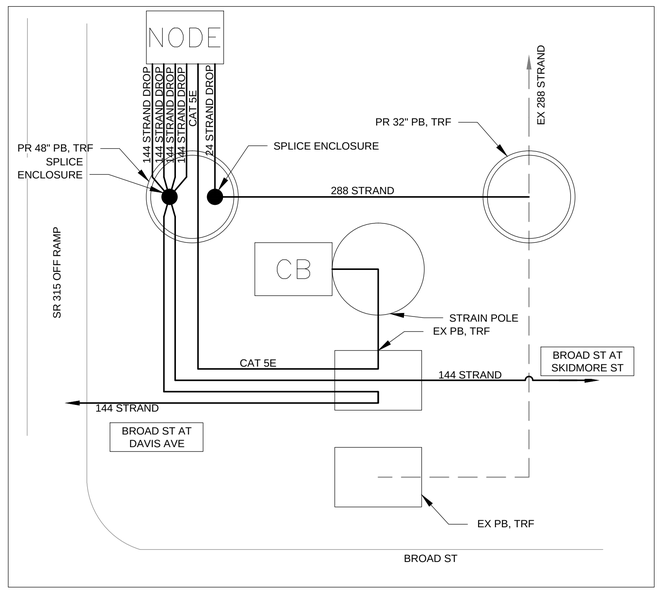


BROAD ST BETWEEN STATION 630+00 AND 634+00



DETAIL - NODE #315000.9

0 10 20
HORIZONTAL
SCALE IN FEET



CABLE SCHEMATIC
NOT TO SCALE

NOTES:

1. SEE SHEETS 558 & 559 FOR QUANTITIES.
2. SEE SHEETS 605 & 894 FOR COMMUNICATION DETAILS.
3. SEE SHEET 87 FOR INTERCONNECT DETAILS.
4. SEE SHEET 298 FOR POWER SERVICE DETAILS.
5. SEE SHEET 16 FOR SIDEWALK REPLACEMENT DETAILS.
6. SEE SHEET 38 FOR INTERCEPTING EXISTING CONDUIT DETAILS.

(#) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 275.

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 268 FOR
INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATION NODE PLAN
BROAD ST BETWEEN STA. 630+00 AND 634+00, NODE #315000.9

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

557
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 3", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE G, AS PER PLAN	PULL BOX, 18", AS PER PLAN	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	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, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH
W. BROAD ST. BETWEEN STA. 630+00 AND 634+00, NODE #315000.9																								
557	EC-1	BROAD ST	631+13, 255' LT								105	35						2						
557	EC-2	BROAD ST	631+13, 255' LT	632+47, 93' LT		728					1092	364	1	2			364							
557	EC-3	BROAD ST	632+47, 93' LT	632+74, 87' LT						56	84	28		2										
557	EC-4	BROAD ST	632+74, 87' LT	632+85, 75' LT		44					66	22		1			22							
557	SE U-1	BROAD ST	632+81, 59' LT													1			150	450	300		2	
557	IC-1	BROAD ST	632+81, 59' LT	632+85, 74' LT				64									16				64			
557	IC-2	BROAD ST	632+81, 59' LT	633+04, 69' LT					24						1		24							
557	CN-1	BROAD ST	632+85, 74' LT																		40	1		2
557	EC-5	BROAD ST	632+85, 74' LT	632+96, 40' LT			90																	
557	TC-1	BROAD ST	632+96, 46' LT																					
557	EC-6	BROAD ST	632+96, 40' LT	632+96, 46' LT	6																			
SHEET TOTAL					6	772	90	64	24	56	1347	449	1	5	1	1	426	2	150	450	404	1	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

1 OF 2 – BROAD ST. BTW STA 630+00 & 634+00
NODE #315000.9

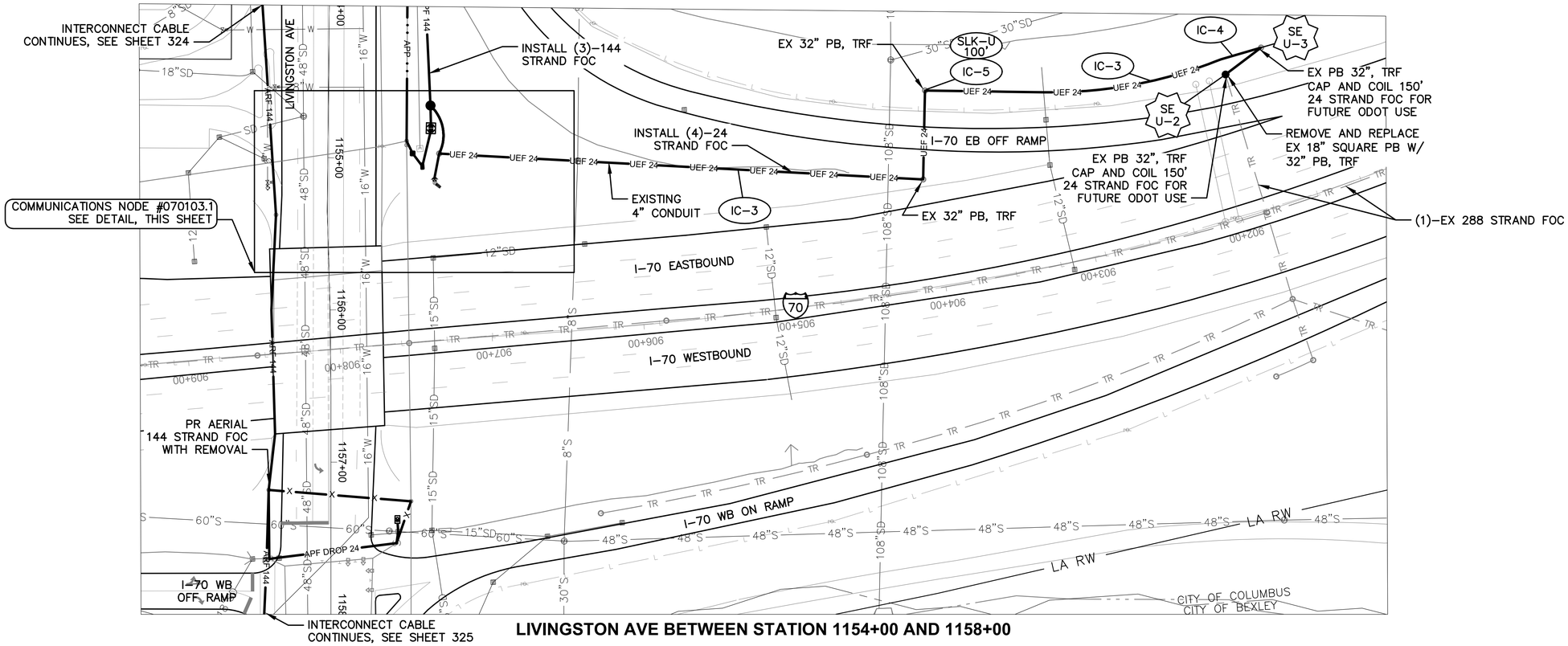
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

558
911

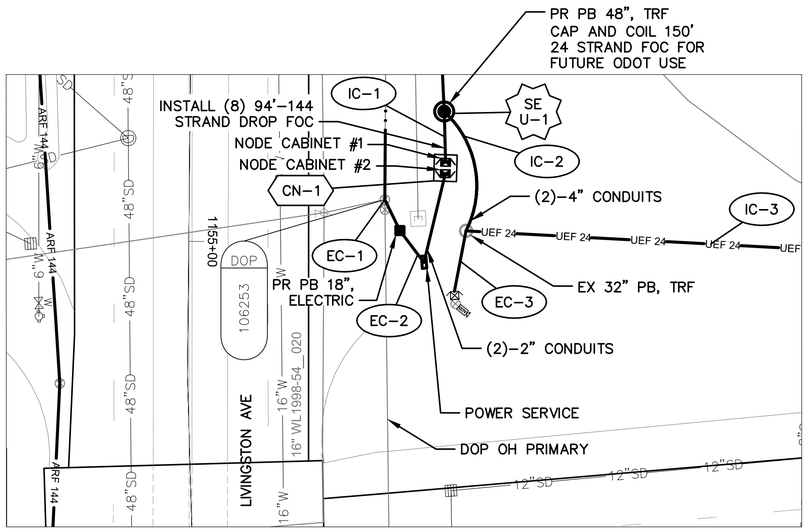
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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	633	633	633	633	633														
					SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN														
			FROM	TO	FT	EACH	EACH	EACH	EACH	EACH														
W. BROAD ST. BETWEEN STA. 630+00 AND 634+00, NODE #315000.9																								
557	EC-1	BROAD ST	631+13, 255' LT																					
557	EC-2	BROAD ST	631+13, 255' LT	632+47, 93' LT																				
557	EC-3	BROAD ST	632+47, 93' LT	632+74, 87' LT																				
557	EC-4	BROAD ST	632+74, 87' LT	632+85, 75' LT																				
557	SE U-1	BROAD ST	632+81, 59' LT																					
557	IC-1	BROAD ST	632+81, 59' LT	632+85, 74' LT																				
557	IC-2	BROAD ST	632+81, 59' LT	633+04, 69' LT																				
557	CN-1	BROAD ST	632+85, 74' LT		10	1	11		2															
557	EC-5	BROAD ST	632+85, 74' LT	632+96, 40' LT	45																			
557	TC-1	BROAD ST	632+96, 46' LT		10			1		1														
557	EC-6	BROAD ST	632+96, 40' LT	632+96, 46' LT	6																			



LIVINGSTON AVE BETWEEN STATION 1154+00 AND 1158+00



DETAIL - COMMUNICATIONS NODE #070103.1

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEETS 561 & 562 FOR QUANTITIES.
2. SEE SHEETS 612 & 870 FOR COMMUNICATION DETAILS.
3. SEE SHEET 325 FOR LIVINGSTON AVE INTERCONNECT DETAILS.
4. SEE SHEET 291 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
6. CONSTRUCTION PROJECT MANAGER TO FIELD MARK NODE LOCATION FOR ENGINEER APPROVAL.



REFER TO SHEET 271 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

COMMUNICATIONS NODE PLAN
LIVINGSTON AVE BETWEEN STA. 1154+00 AND 1158+00, NODE #070103.1

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

560
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633
			FROM	TO	EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE D, AS PER PLAN	PULL BOX, 18", 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, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE
					FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH
LIVINGSTON AVE. BETWEEN STA 1154+00 AND 1158+00, NODE #070103.1																								
560	SE U-2	I-70	901+52, 103' RT												150	225			1					
560	IC-3	I-70	901+52, 103' RT	907+24, 123' RT	574										2296									
560	IC-4	I-70	901+52, 103' RT	901+82, 104' RT	27										54									
560	SE U-3	I-70	901+82, 104' RT												150	225			1					
560	IC-5	I-70	903+11, 113' RT													100								
560	IC-2	I-70	907+24, 123' RT	907+27, 154' RT			68						34		136									
560	SE U-1	I-70	907+27, 154' RT									1			525	225	600		2	1				
560	IC-1	I-70	907+27, 154' RT	907+28, 140' RT			26						13				104							
560	CN-1	I-70	907+28, 140' RT														80	1			2	10	1	9
560	EC-2	I-70	907+28, 140' RT	907+43, 133' RT		88		44	132	1	1		44											
560	EC-3	I-70	907+28, 140' RT	907+29, 104' RT	16																	65		
560	EC-1	I-70	907+43, 133' RT					35	105					2										
SHEET TOTAL					617	88	94	79	237	1	1	1	91	2	3311	775	784	1	4	1	2	75	1	9

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 – LIVINGSTON AVE. BTW STA. 1154+00 AND 1158+00
NODE #070103.1

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

561
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH
					EACH
LIVINGSTON AVE. BETWEEN STA 1154+00 AND 1158+00, NODE #070103.1					
560	SE U-2	I-70	901+52, 103' RT		
560	IC-3	I-70	901+52, 103' RT	907+24, 123' RT	
560	IC-4	I-70	901+52, 103' RT	901+82, 104' RT	
560	SE U-3	I-70	901+82, 104' RT		
560	IC-5	I-70	903+11, 113' RT		
560	IC-2	I-70	907+24, 123' RT	907+27, 154' RT	
560	SE U-1	I-70	907+27, 154' RT		
560	IC-1	I-70	907+27, 154' RT	907+28, 140' RT	
560	CN-1	I-70	907+28, 140' RT		1
560	EC-2	I-70	907+28, 140' RT	907+43, 133' RT	
560	EC-3	I-70	907+28, 140' RT	907+29, 104' RT	
560	EC-1	I-70	907+43, 133' RT		
SHEET TOTAL					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

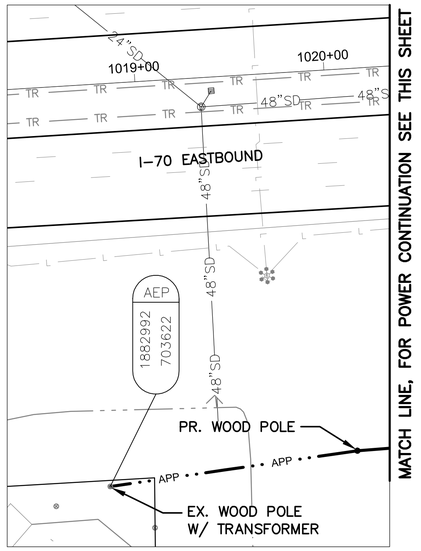
CIP: 540007–100005
PID NUMBER: 14522

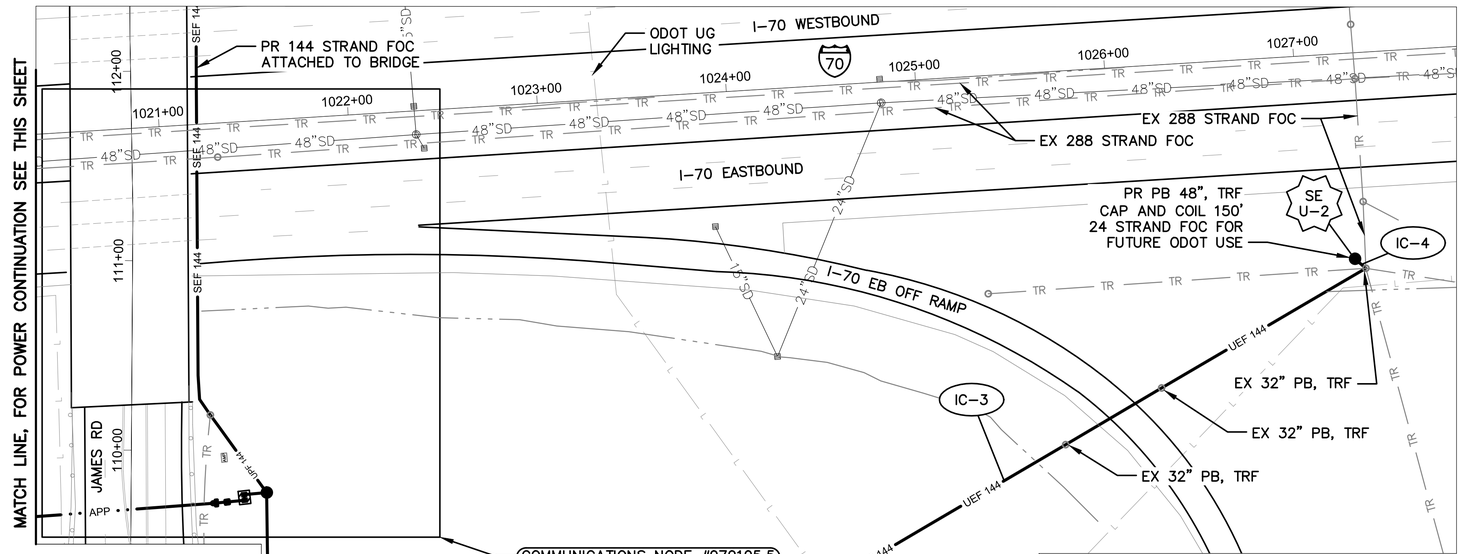
2 OF 2 – LIVINGSTON AVE. BTW STA. 1154+00 AND 1158+00
NODE #070103.1

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

562
911

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DETAIL - COMMUNICATIONS NODE #070105.5

IR-70 BETWEEN STATION 1020+65 AND 1027+85

NOTES:

1. SEE SHEETS 564 & 565 FOR QUANTITIES.
2. SEE SHEETS 613 & 874 FOR COMMUNICATION DETAILS.
3. SEE SHEET 292 FOR POWER SERVICE DETAILS.
4. SEE SHEET 445 FOR INTERCONNECT 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 275.

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

CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET: 0, 40, 80

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
JAMES RD BETWEEN STA. 109+50 AND 113+00, NODE #070105.5

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

2953-E

563
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE A, AS PER PLAN	PULL BOX, 18", 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.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
IR-70 BETWEEN STA. 1020+65 AND 1027+85, NODE #070105.5																								
563	EC-4	I-70	1020+05, 202' RT	1021+33, 200' RT				381	127														
563	EC-2	I-70	1021+16, 200' RT	1021+33, 197' RT		34		51	17		1		17										
563	EC-3	I-70	1021+16, 200' RT					105	35	1				3									
563	IC-2	I-70	1021+18, 154' RT	1021+45, 196' RT			102						51		51								
563	CN-1	I-70	1021+33, 197' RT														40	10	1			2	1	1
563	IC-1	I-70	1021+33, 197' RT	1021+45, 196' RT			24						12				48	12						
563	EC-1	I-70	1021+33, 197' RT	1021+45, 196' RT																			
563	IC-3	I-70	1021+42, 413' RT	1027+32, 114' RT	662										1324	662							
563	SE U-1	I-70	1021+45, 196' RT									1			300	300	300	75		1	1		
563	IC-4	I-70	1027+26, 109' RT	1027+32, 114' RT			16						8		16	8							
563	SE U-2	I-70	1027+26, 109' RT									1			150	300					1		
SHEET TOTAL					662	34	142	537	179	1	1	2	88	3	1841	1270	388	97	1	1	2	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

1 OF 2 – IR–70 BTW STA. 1020+65 AND 1027+85
NODE #070105.5

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

564
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	632 WOOD POLE, CLASS 5, 35 FT	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH
			FROM	TO	FT	FT	EACH	EACH	EACH	EACH
IR-70 BETWEEN STA. 1020+65 AND 1027+85, NODE #070105.5										
563	EC-4	I-70	1020+05, 202' RT	1021+33, 200' RT	127		1			
563	EC-2	I-70	1021+16, 200' RT	1021+33, 197' RT						
563	EC-3	I-70	1021+16, 200' RT				1			
563	IC-2	I-70	1021+18, 154' RT	1021+45, 196' RT						
563	CN-1	I-70	1021+33, 197' RT			10		1	8	1
563	IC-1	I-70	1021+33, 197' RT	1021+45, 196' RT						
563	EC-1	I-70	1021+33, 197' RT	1021+45, 196' RT		12				
563	IC-3	I-70	1021+42, 413' RT	1027+32, 114' RT						
563	SE U-1	I-70	1021+45, 196' RT							
563	IC-4	I-70	1027+26, 109' RT	1027+32, 114' RT						
563	SE U-2	I-70	1027+26, 109' RT							
SHEET TOTAL					127	22	2	1	8	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

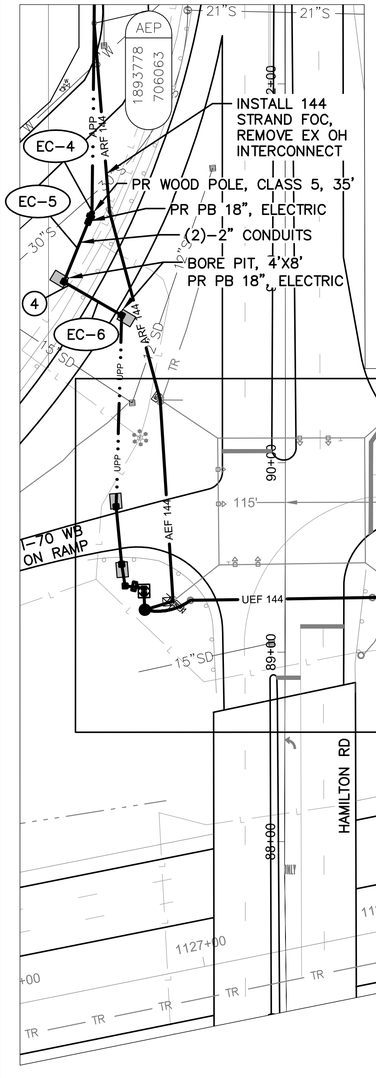
CIP: 540007–100005
PID NUMBER: 14522

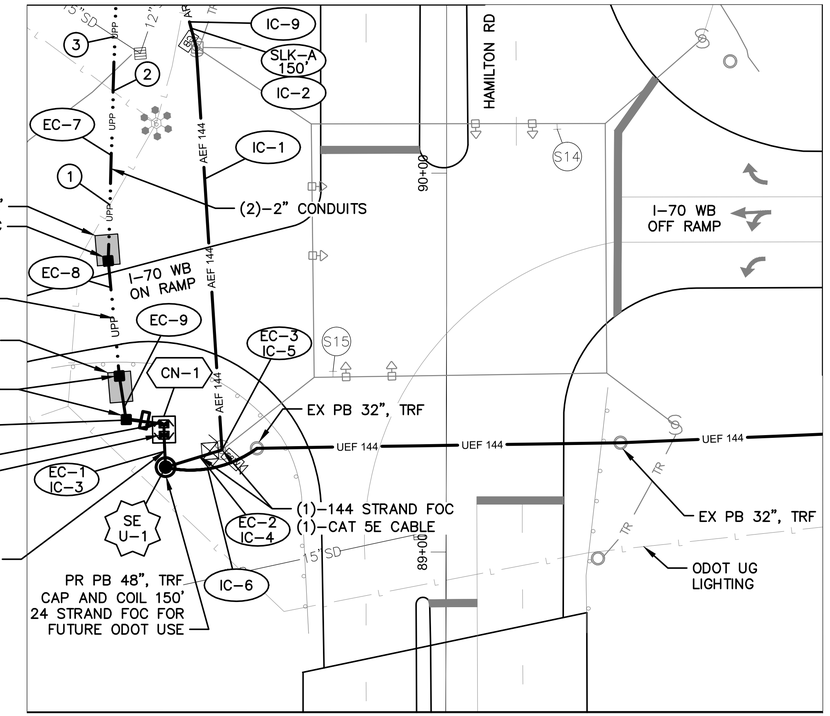
2 OF 2 – IR–70 BTW STA. 1020+65 AND 1027+85
NODE #070105.5

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

565
911

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DETAIL - COMMUNICATIONS NODE #070107.6

0 20 40

HORIZONTAL SCALE IN FEET

I-70 BETWEEN STATION 1126+00 AND 1135+00

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

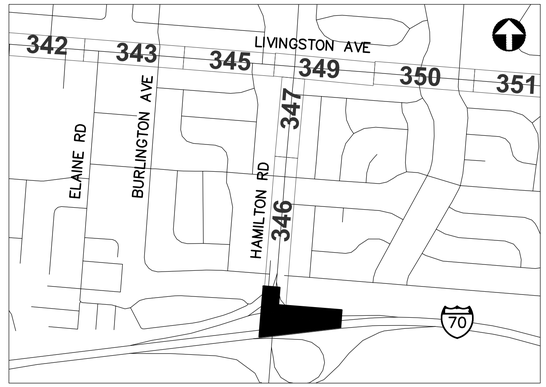
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING

NOTES:

1. SEE SHEETS 567 & 568 FOR QUANTITIES.
2. SEE SHEETS 613 & 876 FOR COMMUNICATION DETAILS.
3. SEE SHEET 296 FOR POWER SERVICE DETAILS.
4. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
I–70 BETWEEN STA. 1126+00 AND 1135+00, NODE #070107.6

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

566
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	632
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, 4", AS PER PLAN	CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE A, AS PER PLAN	PULL BOX, 18", 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.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 144 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH
IR-70 BETWEEN STA. 1126+00 AND 1135+00, NODE #070107.6																								
566	SE U-1	I-70	1127+05, 191' LT										1			300	300	300	75			1	1	
566	IC-4	I-70	1127+05, 191' LT	1127+27, 193' LT			44							22		22								
566	EC-2	I-70	1127+05, 191' LT	1127+27, 193' LT																				
566	IC-3	I-70	1127+05, 191' LT	1127+07, 201' LT			20							10				40	10					
566	EC-1	I-70	1127+05, 191' LT	1127+07, 201' LT																				
566	IC-6	I-70	1127+05, 191' LT	1127+31, 191' LT			50							25		50	25							
566	CN-1	I-70	1127+07, 201' LT															40	10		1			2
566	IC-5	I-70	1127+27, 193' LT												2	35								
566	EC-3	I-70	1127+27, 193' LT																					
566	IC-1	I-70	1127+27, 193' LT	1127+41, 314' LT												124				122				
566	IC-7	I-70	1127+31, 191' LT	1134+08, 80' LT	686											1372	686							
566	IC-2	I-70	1127+43, 302' LT													150								
566	IC-8	I-70	1134+03, 86' LT	1134+08, 80' LT			16							8		16	8							
566	SE U-2	I-70	1134+03, 86' LT													150	300					1		
566	EC-9	HAMILTON RD	89+34, 77' LT	89+51, 89' LT		54			81	27		1		27										
566	EC-8	HAMILTON RD	89+51, 89' LT	89+77, 89' LT				50	75	25		2												
566	EC-7	HAMILTON RD	89+77, 89' LT	90+78, 86' LT		258			387	129				129										
566	IC-9	HAMILTON RD	90+32, 57' LT	90+50, 93' LT												19								
566	EC-6	HAMILTON RD	90+78, 86' LT	90+96, 117' LT				70	105	35		2												
566	EC-5	HAMILTON RD	90+96, 117' LT	91+32, 102' LT		78			117	39		1		39										
566	EC-4	HAMILTON RD	91+32, 102' LT						105	35	1				2									
SHEET TOTAL					686	390	130	120	870	290	1	6	2	260	4	2238	1319	380	95	122	1	1	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

1 OF 2 – IR–70 BTW STA. 1126+00 AND 1135+00
NODE #070107.6

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

567
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	632	632	633	633	633											
					INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH										
			FROM	TO	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH											
IR-70 BETWEEN STA. 1126+00 AND 1135+00, NODE #070107.6																							
566	SE U-1	I-70	1127+05, 191' LT																				
566	IC-4	I-70	1127+05, 191' LT	1127+27, 193' LT																			
566	EC-2	I-70	1127+05, 191' LT	1127+27, 193' LT				22															
566	IC-3	I-70	1127+05, 191' LT	1127+07, 201' LT																			
566	EC-1	I-70	1127+05, 191' LT	1127+07, 201' LT				10															
566	IC-6	I-70	1127+05, 191' LT	1127+31, 191' LT																			
566	CN-1	I-70	1127+07, 201' LT		1	1		10		1	6	1											
566	IC-5	I-70	1127+27, 193' LT																				
566	EC-3	I-70	1127+27, 193' LT					35															
566	IC-1	I-70	1127+27, 193' LT	1127+41, 314' LT																			
566	IC-7	I-70	1127+31, 191' LT	1134+08, 80' LT																			
566	IC-2	I-70	1127+43, 302' LT																				
566	IC-8	I-70	1134+03, 89' LT	1134+08, 80' LT																			
566	SE U-2	I-70	1134+03, 86' LT																				
566	EC-9	HAMILTON RD	89+34, 77' LT	89+51, 89' LT																			
566	EC-8	HAMILTON RD	89+51, 89' LT	89+77, 89' LT																			
566	EC-7	HAMILTON RD	89+77, 89' LT	90+78, 86' LT																			
566	IC-9	HAMILTON RD	90+32, 57' LT	90+50, 63' LT			19																
566	EC-6	HAMILTON RD	90+78, 86' LT	90+96, 117' LT																			
566	EC-5	HAMILTON RD	90+96, 117' LT	91+32, 102' LT																			
566	EC-4	HAMILTON RD	91+32, 102' LT						1														
SHEET TOTAL					1	1	19	77	1	1	6	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

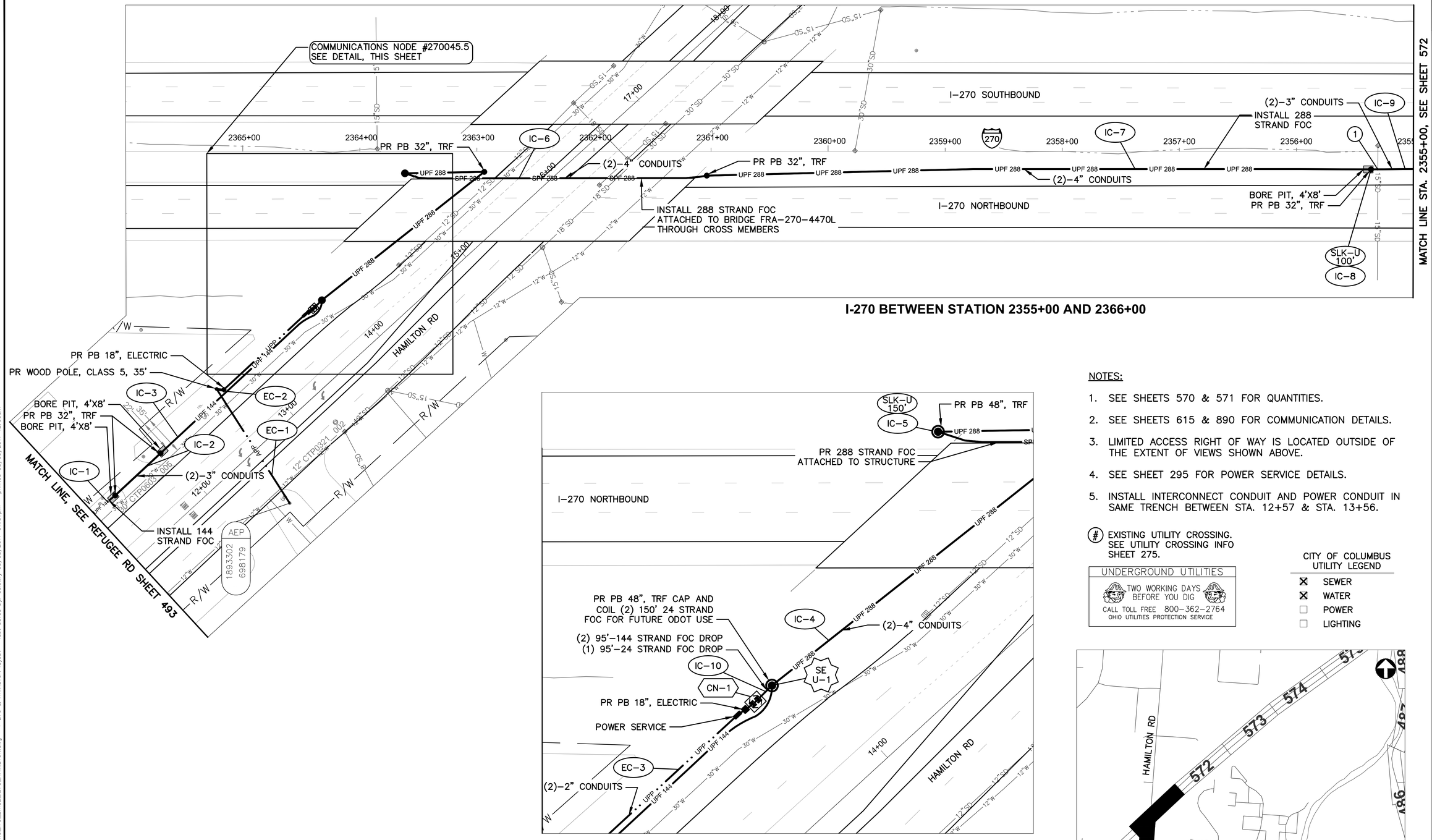
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – IR–70 BTW STA. 1126+00 AND 1135+00
NODE #070107.6

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

568
911

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DETAIL - COMMUNICATIONS NODE #270045.5

0 20 40
HORIZONTAL SCALE IN FEET

NOTES:

1. SEE SHEETS 570 & 571 FOR QUANTITIES.
2. SEE SHEETS 615 & 890 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. SEE SHEET 295 FOR POWER SERVICE DETAILS.
5. INSTALL INTERCONNECT CONDUIT AND POWER CONDUIT IN SAME TRENCH BETWEEN STA. 12+57 & STA. 13+56.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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CITY OF COLUMBUS UTILITY LEGEND

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

REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

MATCH LINE STA. 2355+00, SEE SHEET 572

0 40 80
HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

COMMUNICAITONS NODE PLAN
I-270 BETWEEN STA 2355+00 AND 2366+00, NODE #270045.5

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

569
911

2953-E

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	625 NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	625 POWER SERVICE, TYPE D, AS PER PLAN	625 PULL BOX, 18", AS PER PLAN	625 PULL BOX, 32", 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 CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 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, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	FT	FT	EACH
IR-270 BETWEEN STA. 2355+00 AND 2366+00, NODE #270045.5																								
569	IC-9	IR-270	2355+00, 15' LT	2355+36, 15' LT					72												36			
569	IC-8	IR-270	2355+36, 15' LT												1						100			
569	IC-7	IR-270	2355+36, 15' LT	2361+03, 21' LT			1134								1		567				567			
569	IC-6	IR-270	2361+03, 21' LT	2363+61, 19' LT						518											259			
569	IC-5	IR-270	2363+61, 19' LT													1					150			
569	IC-4	IR-270	2363+61, 19' LT	2364+32, 127' LT			490								1						245			
569	SE U-1	IR-270	2364+32, 127' LT													1			75	300	75	150		2
569	IC-3	IR-270	2364+32, 127' LT	2365+70, 258' LT				192									192		192					
569	IC-10	IR-270	2364+32, 127' LT	2364+39, 134' LT		20											10					20	10	
569	CN-1	IR-270	2364+39, 134' LT																			20	10	
569	EC-3	IR-270	2364+39, 134' LT	2365+36, 214' LT	248						124	372	1	2										
569	EC-1	IR-270	2364+60, 300' LT	2365+36, 214' LT							20	360												
569	EC-2	IR-270	2364+60, 300' LT								35	105						2						
569	IC-2	IR-270	2365+70, 258' LT	2366+08, 294' LT					212						1				53					
569	IC-1	IR-270	2366+08, 294' LT	2366+26, 310' LT				24							1		24		24					
SHEET TOTAL					248	20	1624	216	284	518	279	837	1	2	5	2	793	2	344	300	1432	190	20	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

1 OF 2 – IR–270 BTW STA. 2355+00 & 2366+00
NODE #270045.5

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

570
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		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 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 WOOD POLE, CLASS 5, 35 FT	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH											
			FROM	TO	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH											
IR-270 BETWEEN STA. 2355+00 AND 2366+00, NODE #270045.5																							
569	IC-9	IR-270	2355+00, 15' LT	2355+36, 15' LT																			
569	IC-8	IR-270	2355+36, 15' LT																				
569	IC-7	IR-270	2355+36, 15' LT	2361+03, 21' LT																			
569	IC-6	IR-270	2361+03, 21' LT	2363+61, 19' LT																			
569	IC-5	IR-270	2363+61, 19' LT																				
569	IC-4	IR-270	2363+61, 19' LT	2364+32, 127' LT																			
569	SE U-1	IR-270	2364+32, 127' LT																				
569	IC-3	IR-270	2364+32, 127' LT	2365+70, 258' LT																			
569	IC-10	IR-270	2364+32, 127' LT	2364+39, 134' LT			1																
569	CN-1	IR-270	2364+39, 134' LT		2	1				1	3	1											
569	EC-3	IR-270	2364+39, 134' LT	2365+36, 214' LT																			
569	EC-1	IR-270	2364+60, 300' LT	2365+36, 214' LT				120															
569	EC-2	IR-270	2364+60, 300' LT						1														
569	IC-2	IR-270	2365+70, 258' LT	2366+08, 294' LT																			
569	IC-1	IR-270	2366+08, 294' LT	2366+26, 310' LT																			
SHEET TOTAL					2	1	1	120	1	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

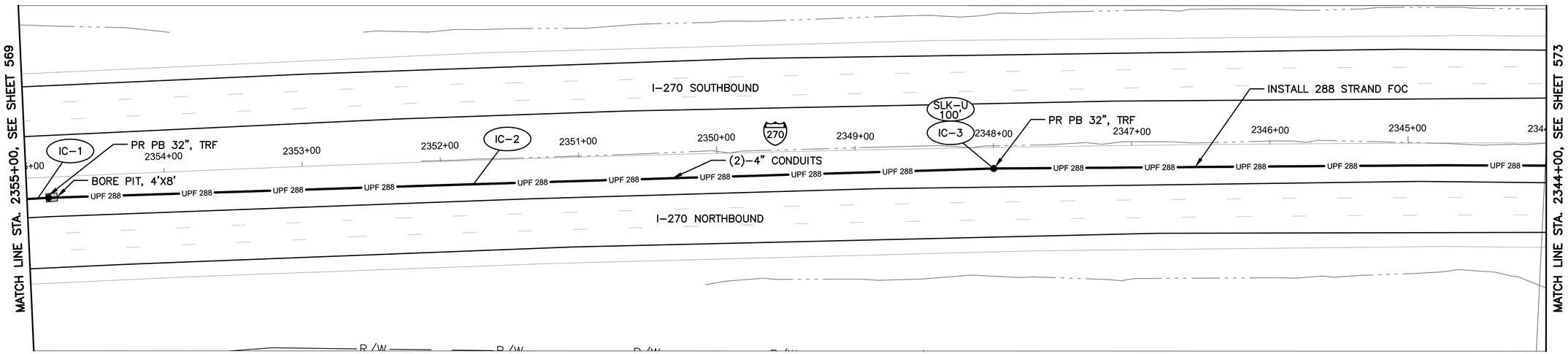
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – IR–270 BTW STA. 2355+00 & 2366+00
NODE #270045.5

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

571
911

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I-270 BETWEEN STATION 2344+00 AND 2355+00

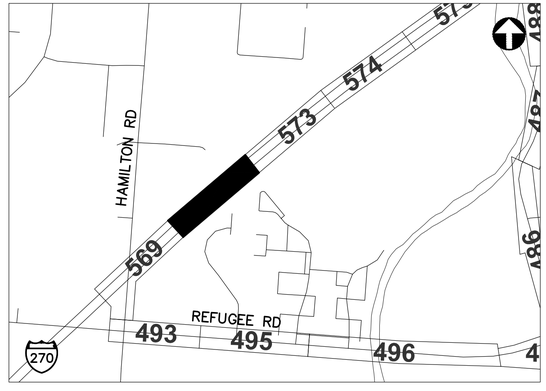
NOTES:

1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

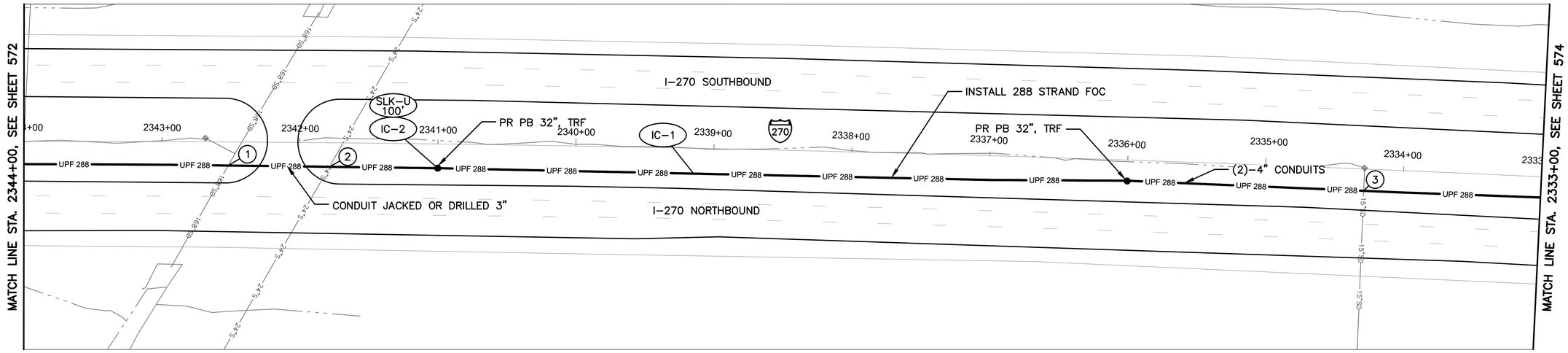
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 2344+00 AND 2355+00

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

572
911

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I-270 BETWEEN STATION 2333+00 AND 2344+00

NOTES:

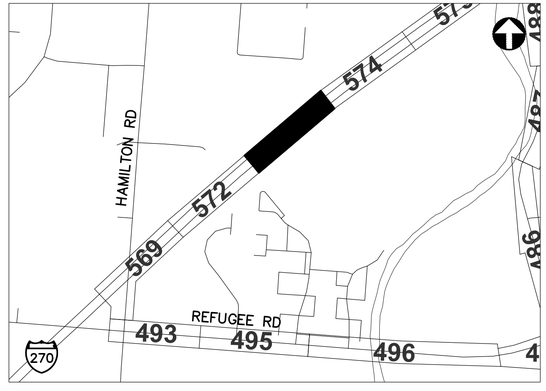
1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

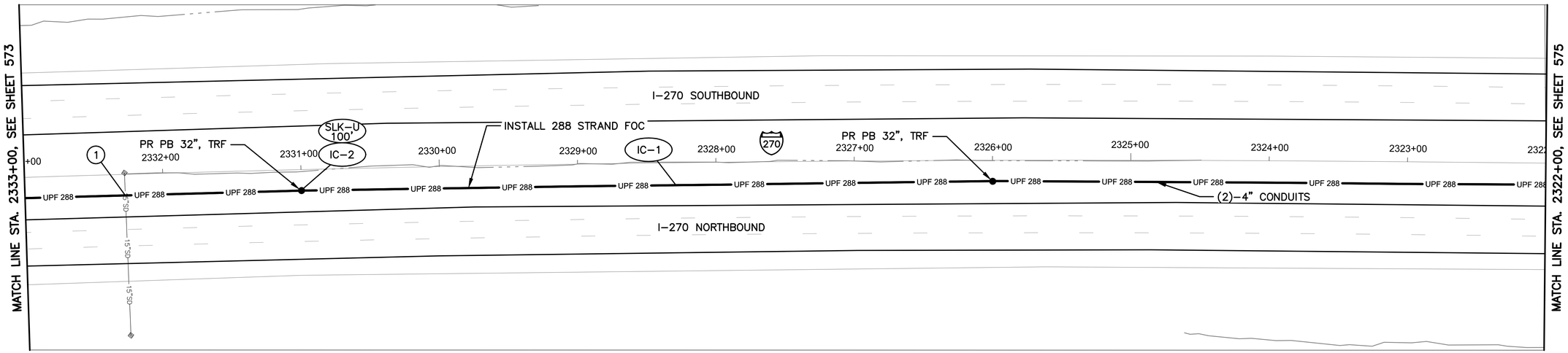
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 2333+00 AND 2344+00

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

573
911

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I-270 BETWEEN STATION 2322+00 AND 2333+00

NOTES:

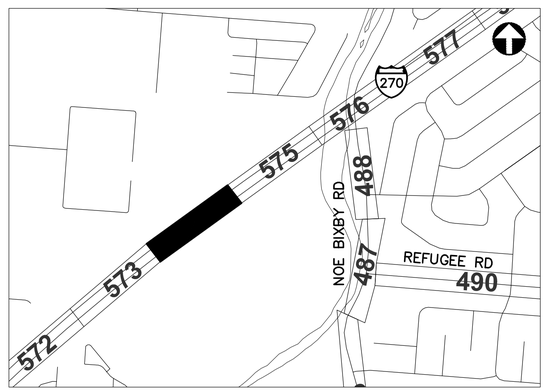
1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

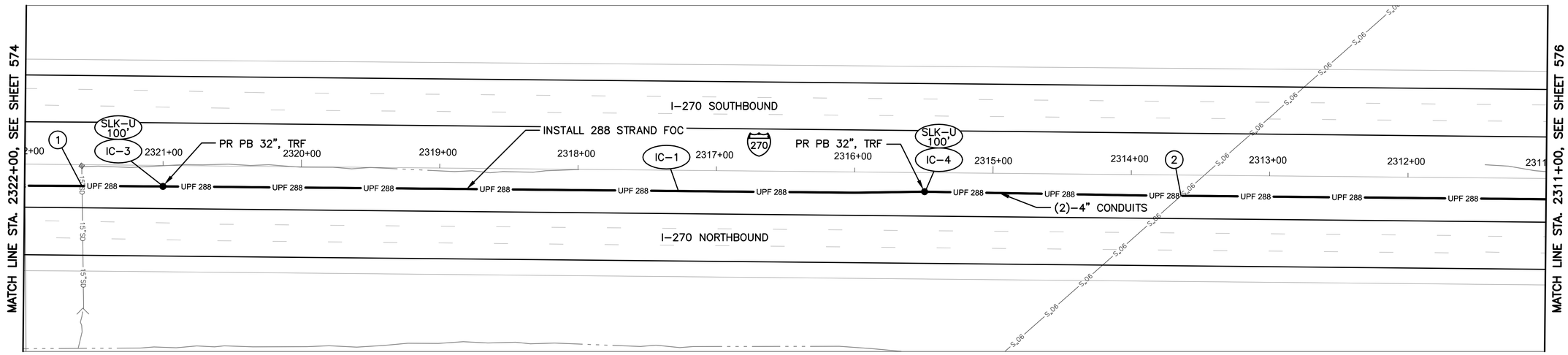
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PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 2322+00 AND 2333+00

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

574
911

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I-270 BETWEEN STATION 2311+00 AND 2322+00

NOTES:

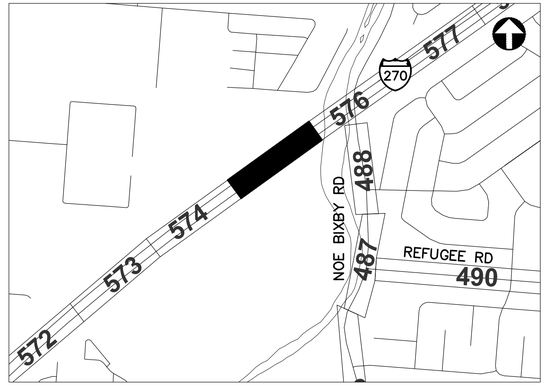
1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

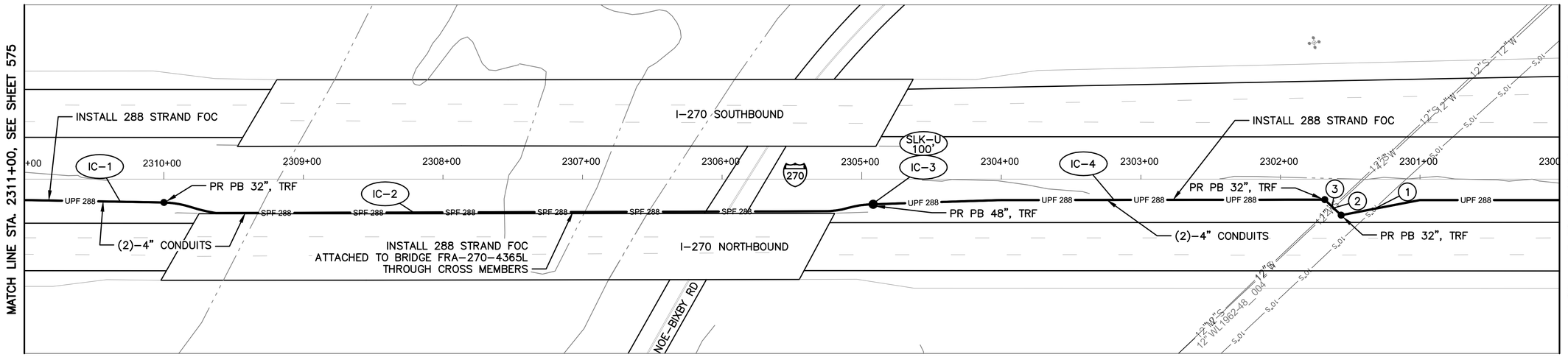
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 2311+00 AND 2322+00

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

575
911

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I-270 BETWEEN STATION 2300+00 AND 2311+00

NOTES:

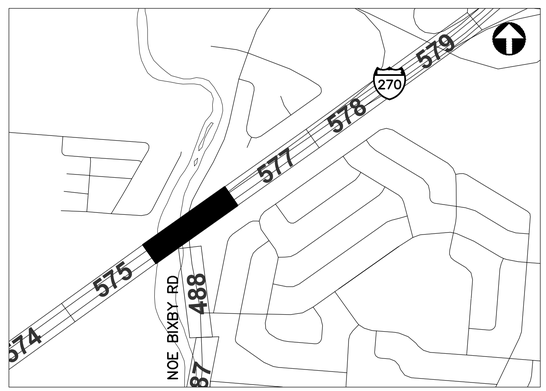
1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTEND OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

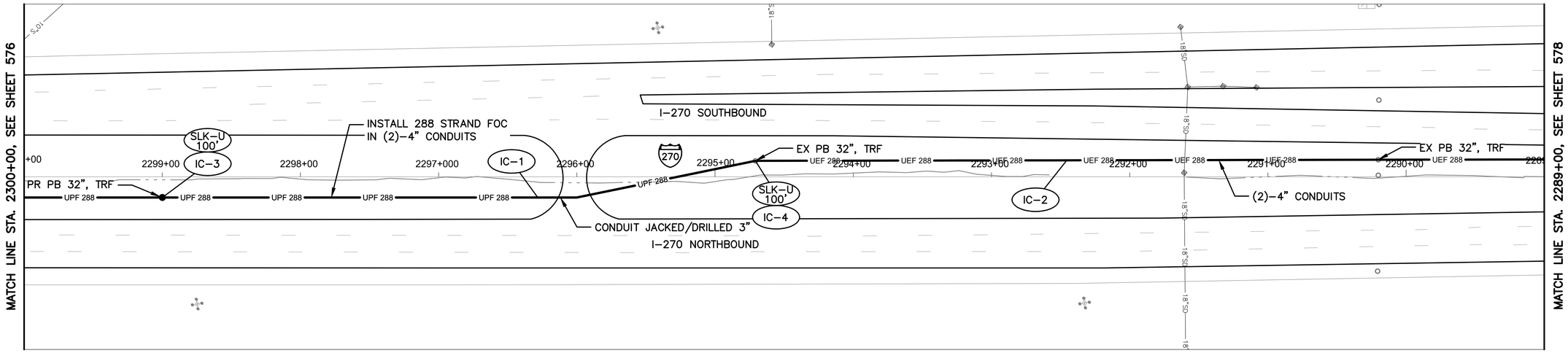
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PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 2300+00 AND 2311+00

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

576
911

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I-270 BETWEEN STATION 2289+00 AND 2300+00

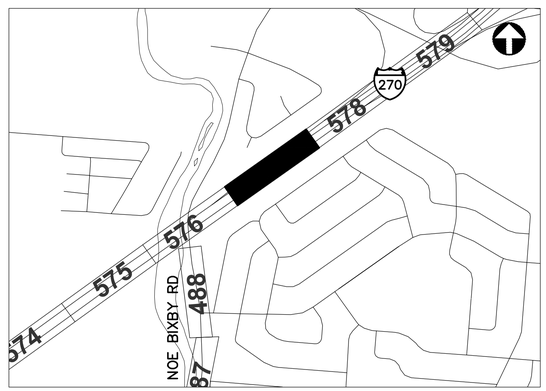
NOTES:

1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTEND 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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

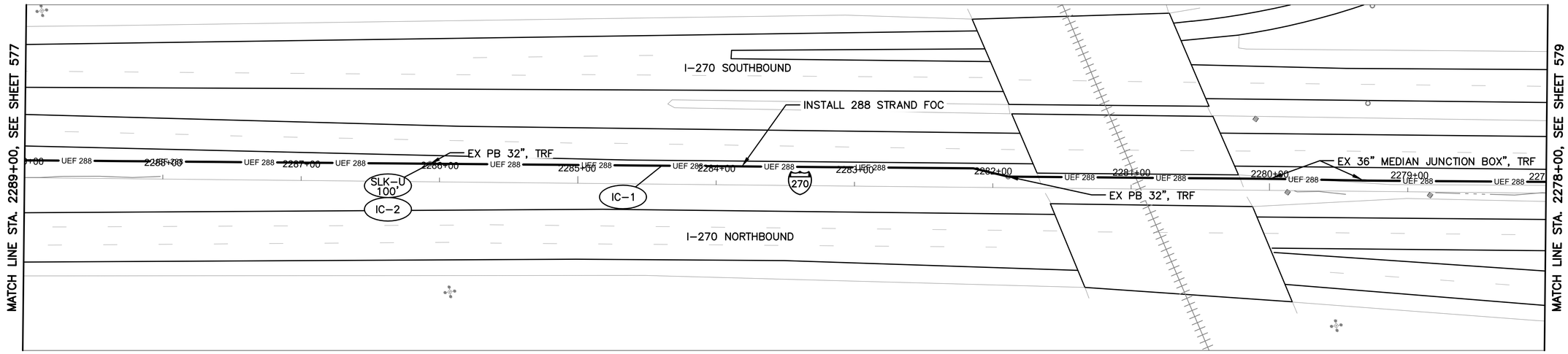
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–270 BETWEEN STA. 2289+00 AND 2300+00

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

577
911

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I-270 BETWEEN STATION 2278+00 AND 2289+00

NOTES:

1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 615 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTEND OF VIEWS SHOWN ABOVE.
4. FIBER INSTALLATION FOR RAILROAD CROSSING AT STA. 2281+03, 8' LT USE EXISTING CONDUIT.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

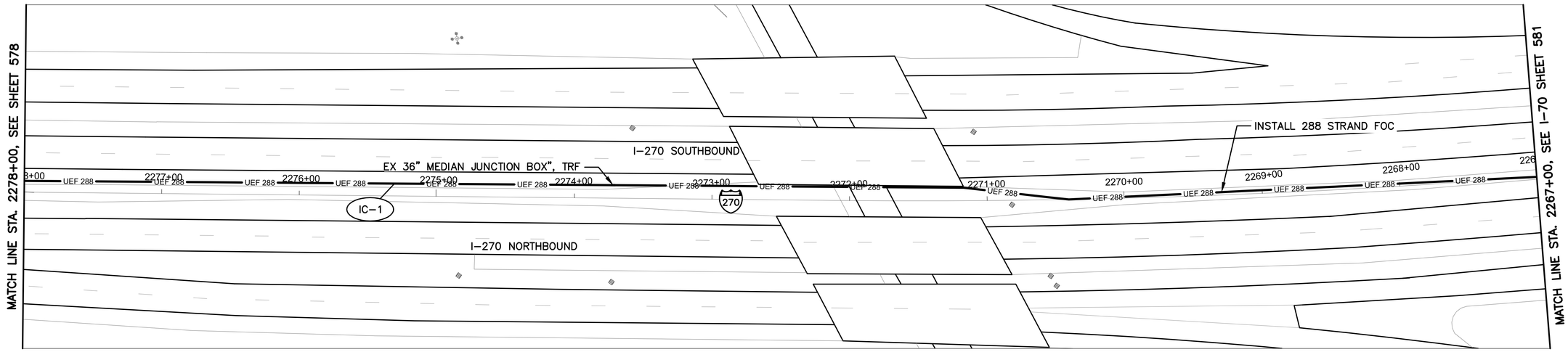
CIP: 540007-100005
PID NUMBER: 14522

INTERCONNECT PLAN
I-270 BETWEEN STA. 2278+00 AND 2289+00

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

578
911

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I-270 BETWEEN STATION 2267+00 AND 2278+00

NOTES:

1. SEE SHEET 580 FOR QUANTITIES.
2. SEE SHEET 614 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTEND 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 271 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
I-270 BETWEEN STA. 2267+00 AND 2278+00

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

579
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	625 PULL BOX, 32", AS PER PLAN	625 PULL BOX, 48", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND
			FT		FT	FT	FT	FT	EACH	EACH	FT	FT
IR-270 BETWEEN STA. 2344+00 AND 2355+00												
572	IC-2	IR-270	2344+00, 17' LT	2354+84, 15' LT		2166			1		1083	1083
572	IC-3	IR-270	2348+00, 15' LT						1			100
572	IC-1	IR-270	2354+84, 15' LT	2355+00, 15' LT			32					16
IR-270 BETWEEN STA. 2333+00 AND 2344+00												
573	IC-1	IR-270	2333+00, 15' LT	2344+00, 17' LT		2200			1		1100	1100
573	IC-2	IR-270	2341+00, 18' LT						1			100
IR-270 BETWEEN STA. 2322+00 AND 2333+00												
574	IC-1	IR-270	2322+00, 16' LT	2333+00, 15' LT		2200			1		1100	1100
574	IC-2	IR-270	2330+99, 15' LT						1			100
IR-270 BETWEEN STA. 2311+00 AND 2322+00												
575	IC-1	IR-270	2311+00, 15' LT	2322+00, 16' LT		2200					1100	1100
575	IC-3	IR-270	2315+49, 14' LT						1			100
575	IC-2	IR-270	2320+99, 15' LT						1			100
IR-270 BETWEEN STA. 2300+00 AND 2311+00												
576	IC-4	IR-270	2300+00, 15' LT	2304+91, 18' LT		994			2		497	497
576	IC-3	IR-270	2304+91, 18' LT							1		100
576	IC-2	IR-270	2304+91, 18' LT	2310+00, 17' LT				1018				509
576	IC-1	IR-270	2310+00, 17' LT	2311+00, 15' LT		200			1		100	100
IR-270 BETWEEN STA. 2289+00 AND 2300+00												
577	IC-2	IR-270	2289+00, 13' RT	2294+70, 12' RT	571							571
577	IC-1	IR-270	2294+70, 12' RT	2300+00, 15' LT		1064					532	532
577	IC-4	IR-270	2294+70, 12' RT									100
577	IC-3	IR-270	2299+00, 15' LT						1			100
IR-270 BETWEEN STA. 2278+00 AND 2289+00												
578	IC-1	IR-270	2278+00, 3' RT	2289+00, 13' RT	1101							1101
578	IC-2	IR-270	2286+06, 13' RT									100
IR-270 BETWEEN STA. 2267+00 AND 2278+00												
579	IC-1	IR-270	2267+00, 0' RT	2278+00, 3' RT	1100							1100
579	IC-3	IR-270	2270+40, 0' LT									100
SHEET TOTAL					2772	11024	32	1018	12	1	5512	9809

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

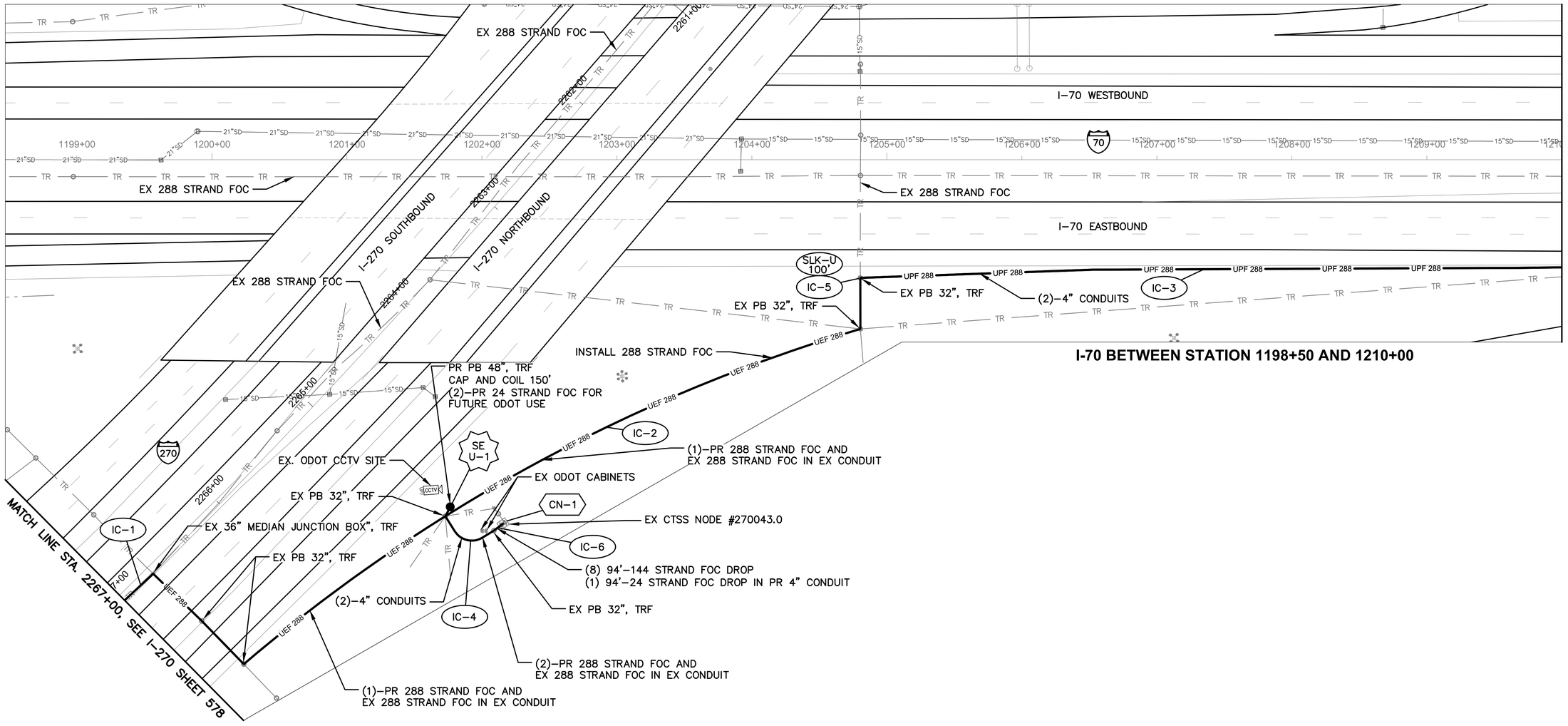
CIP: 540007–100005
PID NUMBER: 14522

IR–270 BTW STA. 2267+00 AND 2355+00

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

580
911

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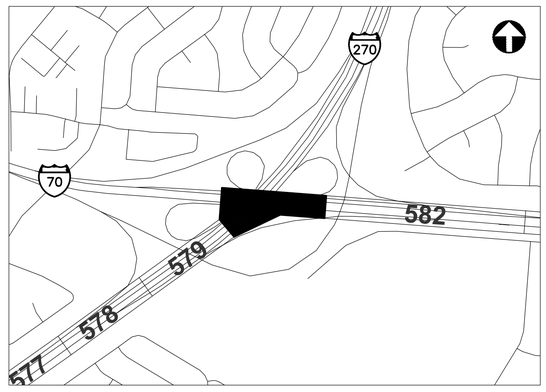


NOTES:

1. SEE SHEET 584 FOR QUANTITIES.
2. SEE SHEET 614 & 898 FOR COMMUNICATION DETAILS.
3. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
4. RETURN EXISTING 32" PB TO BE REPLACED BY 48" PB TO THE CITY.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

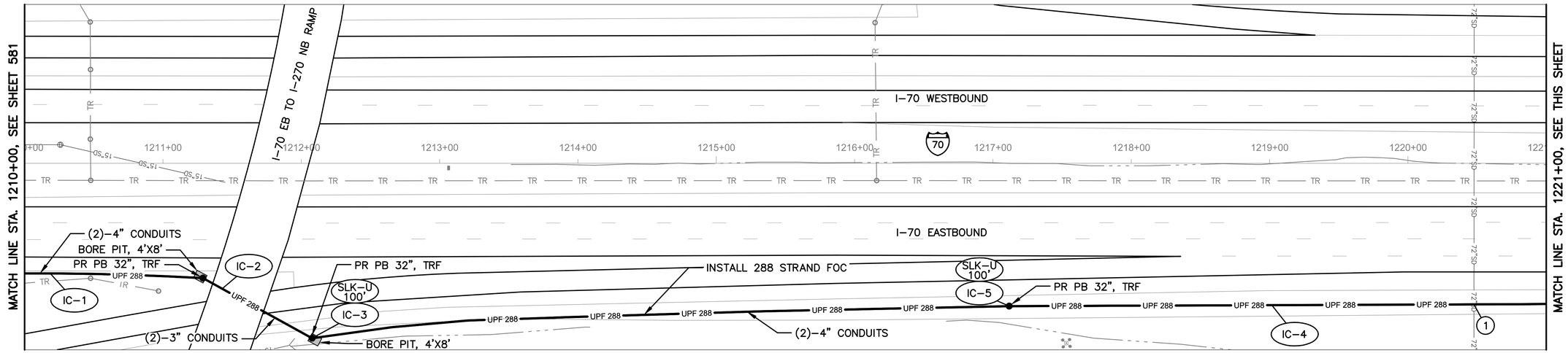
INTERCONNECT PLAN
I-70 BETWEEN STA. 1198+50 AND 1210+00

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

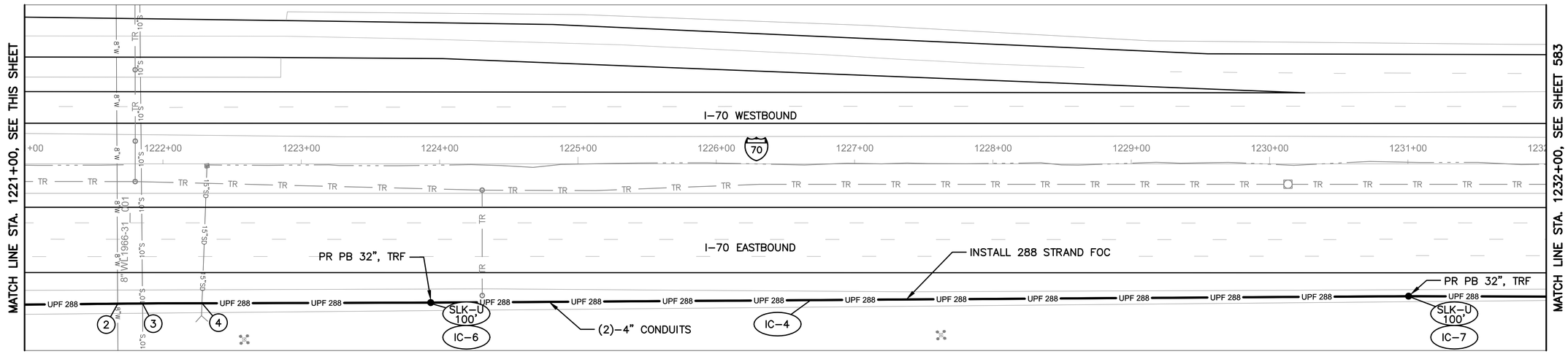
581
911

2953-E

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I-70 BETWEEN STATION 1210+00 AND 1221+00



I-70 BETWEEN STATION 1221+00 AND 1232+00

NOTES:

1. SEE SHEET 584 FOR QUANTITIES.
2. SEE SHEET 614 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 274.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

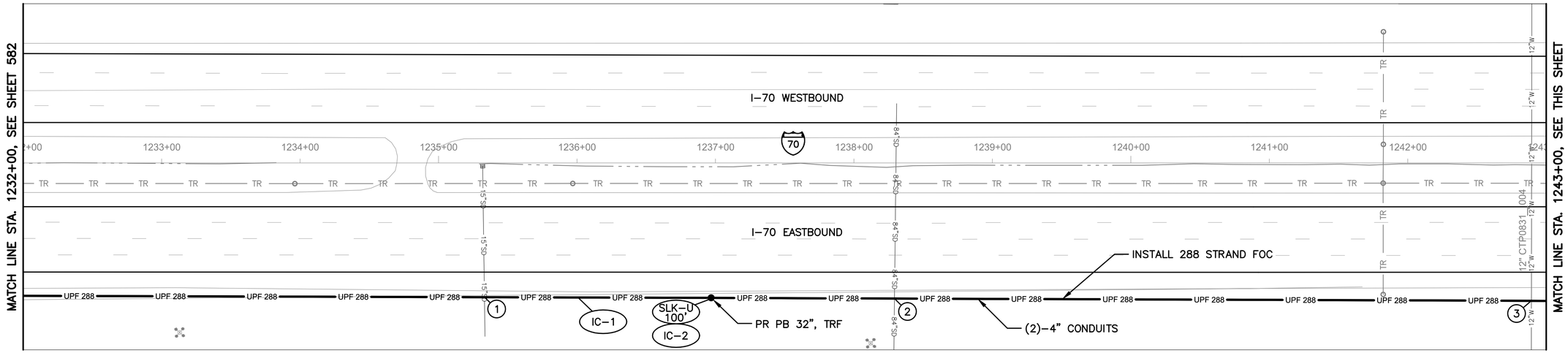
CIP: 540007–100005
PID NUMBER: 14522

INTERCONNECT PLAN
I–70 BETWEEN STA. 1210+00 AND 1232+00

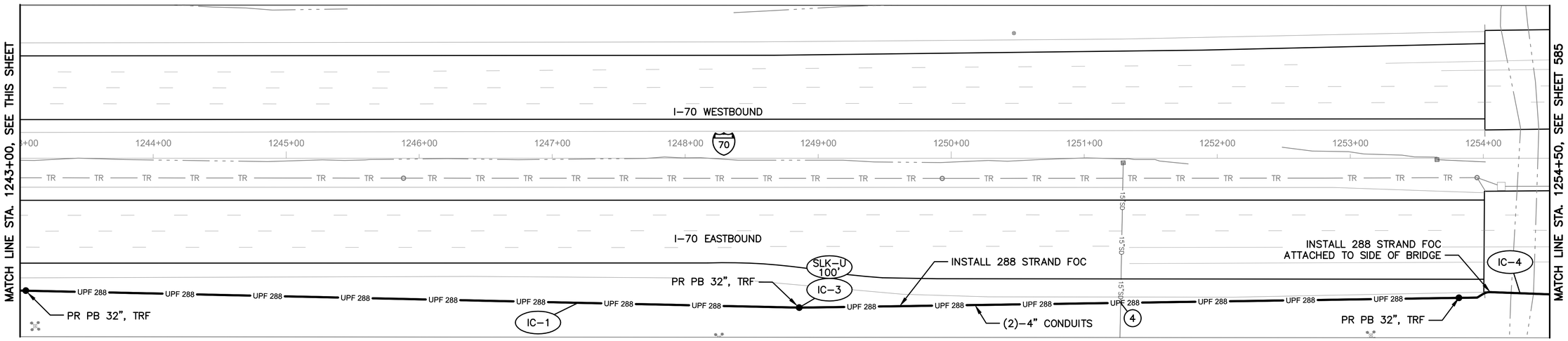
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE c – CONSTRUCTION AS–BUILT

582
911

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I-70 BETWEEN STATION 1232+00 AND 1243+00



I-70 BETWEEN STATION 1243+00 AND 1254+50

NOTES:

1. SEE SHEET 584 FOR QUANTITIES.
2. SEE SHEET 614 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 275.

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 271 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
I–70 BETWEEN STA. 1232+00 AND 1254+50

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

583
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, 4", 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 PULL BOX, 48", AS PER PLAN (EACH)	625 PULL BOX, REMOVED, AS PER PLAN (EACH)	625 TRENCH, 36" DEEP, AS PER PLAN (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED (FT)	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED (FT)	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER (EACH)	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE (EACH)
IR-70 BETWEEN STA. 1198+50 AND 1210+00, NODE #270043.0																			
581	IC-1	IR-70	1199+35, 326' RT	1201+72, 264' RT	309								309						
581	IC-4	IR-70	1201+72, 264' RT	1202+08, 275' RT		78						39	78						
581	IC-2	IR-70	1201+72, 264' RT	1204+80, 88' RT	376								376						
581	SE U-1	IR-70	1202+08, 275' RT							1	1		150	750		4			
581	IC-6	IR-70	1202+08, 275' RT	1202+15, 270' RT		36						9		72					
581	CN-1	IR-70	1202+15, 270' RT											80	10		4	2	
581	IC-5	IR-70	1204+80, 88' RT										100						
581	IC-3	IR-70	1204+80, 88' RT	1210+00, 80' RT		1040						520	520						
IR-70 BETWEEN STA. 1210+00 AND 1232+00																			
582	IC-1	IR-70	1210+00, 80' RT	1211+28, 83' RT		258			1			129	129						
582	IC-2	IR-70	1211+28, 83' RT	1212+07, 127' RT			180						90						
582	IC-3	IR-70	1212+07, 127' RT						1				100						
582	IC-4	IR-70	1212+07, 127' RT	1232+00, 96' RT		3986						1993	1993						
582	IC-5	IR-70	1217+11, 103' RT						1				100						
582	IC-6	IR-70	1223+93, 100' RT						1				100						
582	IC-7	IR-70	1231+00, 96' RT						1				100						
IR-70 BETWEEN STA. 1232+00 AND 1254+50																			
583	IC-1	IR-70	1232+00, 96' RT	1253+95, 105' RT		4392			2			2196	2196						
583	IC-2	IR-70	1236+96, 97' RT						1				100						
583	IC-3	IR-70	1248+85, 112' RT						1				100						
583	IC-4	IR-70	1253+95, 105' RT	1254+50, 102' RT				114					57						
SHEET TOTAL					685	9790	180	114	9	1	1	4886	6598	902	10	4	4	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

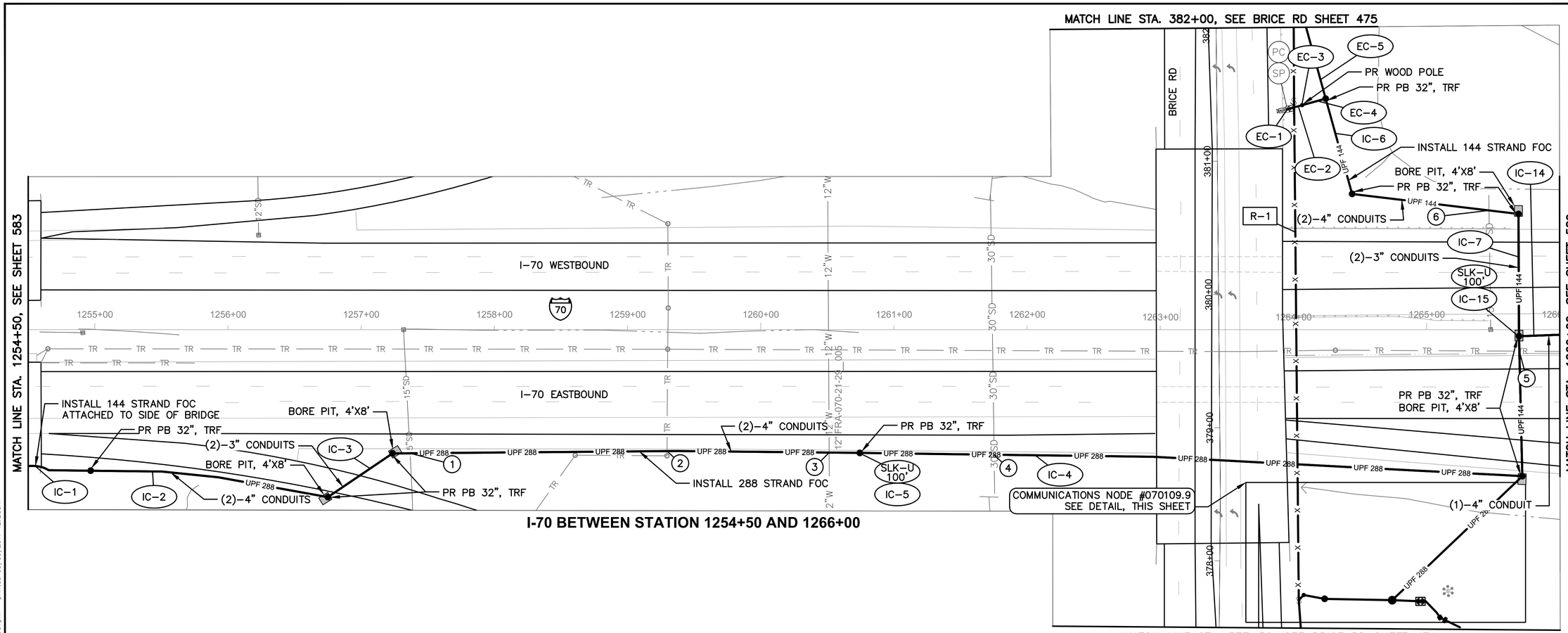
CIP: 540007-100005
PID NUMBER: 14522

IR-70 BTW STA. 1198+00 AND 1254+50
NODE #270043.0

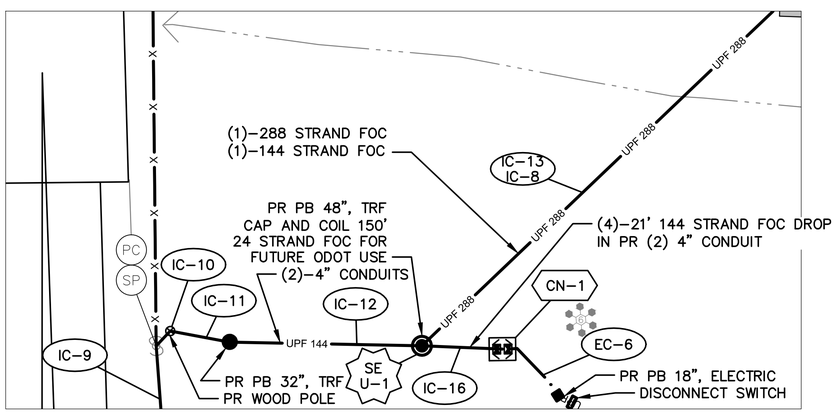
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

584
911

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I-70 BETWEEN STATION 1254+50 AND 1266+00



DETAIL - COMMUNICATIONS NODE #070109.9

HORIZONTAL SCALE IN FEET

NOTES:

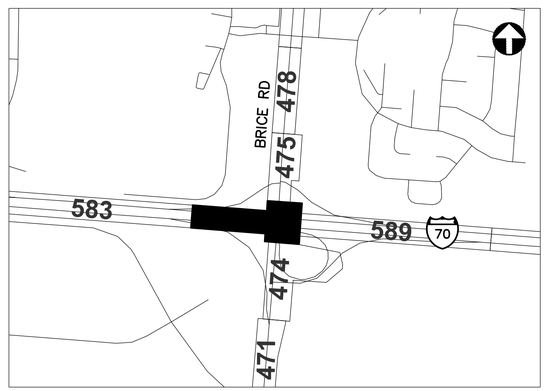
1. SEE SHEETS 587 & 588 FOR QUANTITIES.
2. SEE SHEETS 616 & 878 FOR COMMUNICATION DETAILS.
3. SEE SHEET 475 FOR BRICE RD INTERCONNECT DETAILS.
4. SEE SHEET 285 FOR POWER SERVICE DETAILS.
5. SEE SHEET 586 FOR CABLE SCHEMATIC DETAILS.
6. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.
7. CONSTRUCTION PROJECT MANAGER TO STAKE NODE LOCATION IN FIELD FOR CONTRACTOR.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET

CIP: 540007-100005
PID NUMBER: 14522

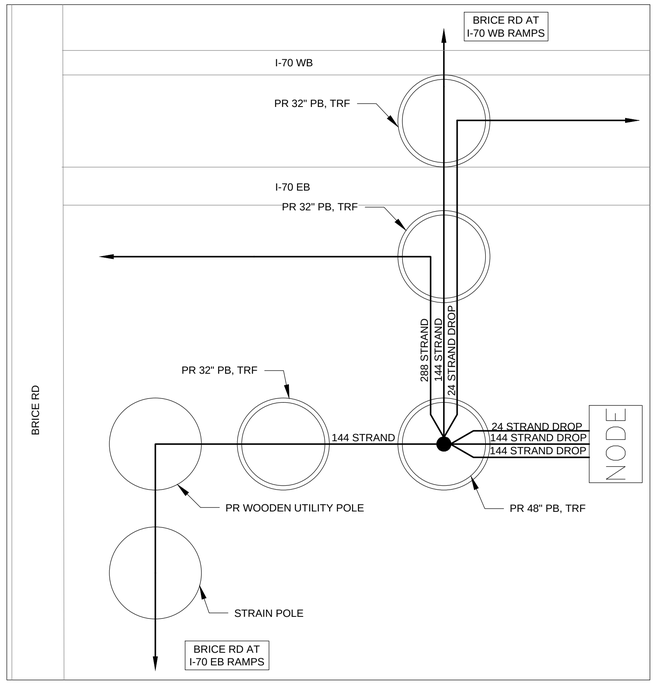
COMMUNICATIONS NODE PLAN
I-70 BETWEEN STA. 1254+50 AND 1266+00, NODE #070109.9

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

585
911

2953-E

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CABLE SCHEMATIC – NODE #070109.9
NOT TO SCALE

NOTES:

1. SEE SHEET 585 FOR COMMUNICATION NODE PLAN.
2. SEE SHEETS 587 & 588 FOR QUANTITIES.
3. SEE SHEETS 616 & 878 FOR COMMUNICATION DETAILS.
4. SEE SHEET 475 FOR BRICE RD INTERCONNECT DETAILS.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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

2953-E

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007-100005
PID NUMBER: 14522

CABLE SCHEMATIC
BRICE RD AT I-70, NODE #070109.9

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

586
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	625 NO. 3 AWG 600 VOLT DISTRIBUTION CABLE	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	625 PULL BOX, 32", 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 CABLE, 24 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 288 STRAND	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 144 STRAND, PRE-TERMINATED	632 INTERCONNECT CABLE, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, DOME, 800 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU
			FROM	TO	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH
IR-70 BETWEEN STA. 1254+50 AND 1266+00, NODE #070109.9																								
585	IC-1	IR-70	1254+50, 102' RT	1254+65, 105' RT					32									16						
585	IC-2	IR-70	1254+65, 105' RT	1256+75, 125' RT			422					1		211				211						
585	IC-3	IR-70	1256+75, 125' RT	1257+24, 93' RT				118				2						59						
585	IC-4	IR-70	1257+24, 93' RT	1265+72, 110' RT			1698					1		849				849						
585	IC-5	IR-70	1260+74, 92' RT									1						100						
585	EC-1	IR-70	1263+95, 165' LT																					
585	EC-2	IR-70	1263+95, 165' LT	1264+06, 168' LT																				
585	R-1	IR-70	1264+00, 227' LT	1264+04, 203' RT																430				
585	EC-3	IR-70	1264+06, 168' LT												2									
585	EC-4	IR-70	1264+06, 168' LT	1264+24, 173' LT	36									18										
585	IC-9	IR-70	1264+06, 224' RT	1264+08, 199' RT												27				27				
585	IC-10	IR-70	1264+08, 199' RT												2	35								
585	IC-11	IR-70	1264+08, 199' RT	1264+23, 202' RT	32									16		16								
585	IC-6	IR-70	1264+09, 227' LT	1265+69, 87' LT			252					2		126		126								
585	EC-5	IR-70	1264+09, 227' LT	1264+24, 173' LT																				
585	IC-12	IR-70	1264+23, 202' RT	1264+75, 203' RT			105							51		51								
585	IC-8	IR-70	1264+75, 203' RT	1265+72, 110' RT			270							135		135		135						
585	IC-13	IR-70	1264+75, 203' RT	1265+72, 110' RT													135							
585	IC-16	IR-70	1264+75, 203' RT	1264+95, 204' RT			42							21				84						
585	SE-U 1	IR-70	1264+75, 203' RT										1			150	450		300			1	1	
585	CN-1	IR-70	1264+95, 204' RT																40		1			2
585	IC-14	IR-70	1265+69, 05' RT	1266+00, 04' RT		31								31			31							
585	IC-15	IR-70	1265+69, 05' RT									1				100								
585	IC-7	IR-70	1265+69, 87' LT	1265+72, 110' RT				396				2				198								
585	EC-6	BRICE RD	377+69, 151' RT	378+04, 163' RT	40					60	20			20										
SHEET TOTAL					108	31	2789	514	32	60	20	10	1	1478	4	838	616	1370	424	457	1	1	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

1 OF 2 – IR–70 BTW STA. 1254+50 AND 1266+00
NODE #070109.9

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

587
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		632	632	632	633	633	633														
					MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	WOOD POLE, CLASS 5, 35 FT	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH													
			FROM	TO	FT	FT	EACH	EACH	EACH	EACH														
IR-70 BETWEEN STA. 1254+50 AND 1266+00, NODE #070109.9																								
585	IC-1	IR-70	1254+50, 102' RT	1254+65, 105' RT																				
585	IC-2	IR-70	1254+65, 105' RT	1256+75, 125' RT																				
585	IC-3	IR-70	1256+75, 125' RT	1257+24, 93' RT																				
585	IC-4	IR-70	1257+24, 93' RT	1265+72, 110' RT																				
585	IC-5	IR-70	1260+74, 92' RT																					
585	EC-1	IR-70	1263+95, 165' LT			45																		
585	EC-2	IR-70	1263+95, 165' LT	1264+06, 168' LT	12	12																		
585	R-1	IR-70	1264+00, 227' LT	1264+04, 203' RT																				
585	EC-3	IR-70	1264+06, 168' LT			35	1																	
585	EC-4	IR-70	1264+06, 168' LT	1264+24, 173' LT		18																		
585	IC-9	IR-70	1264+06, 224' RT	1264+08, 199' RT	27																			
585	IC-10	IR-70	1264+08, 199' RT				1																	
585	IC-11	IR-70	1264+08, 199' RT	1264+23, 202' RT																				
585	IC-6	IR-70	1264+09, 227' LT	1265+69, 87' LT																				
585	EC-5	IR-70	1264+09, 227' LT	1264+24, 173' LT		57																		
585	IC-12	IR-70	1264+23, 202' RT	1264+75, 203' RT																				
585	IC-8	IR-70	1264+75, 203' RT	1265+72, 110' RT																				
585	IC-13	IR-70	1264+75, 203' RT	1265+72, 110' RT																				
585	IC-16	IR-70	1264+75, 203' RT	1264+95, 204' RT																				
585	SE-U 1	IR-70	1264+75, 203' RT																					
585	CN-1	IR-70	1264+95, 204' RT					1	8	1														
585	IC-14	IR-70	1265+69, 05' RT	1266+00, 04' RT																				
585	IC-15	IR-70	1265+69, 05' RT																					
585	IC-7	IR-70	1265+69, 87' LT	1265+72, 110' RT																				
585	EC-6	BRICE RD	377+69, 151' RT	378+04, 163' RT																				
SHEET TOTAL					39	167	2	1	8	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

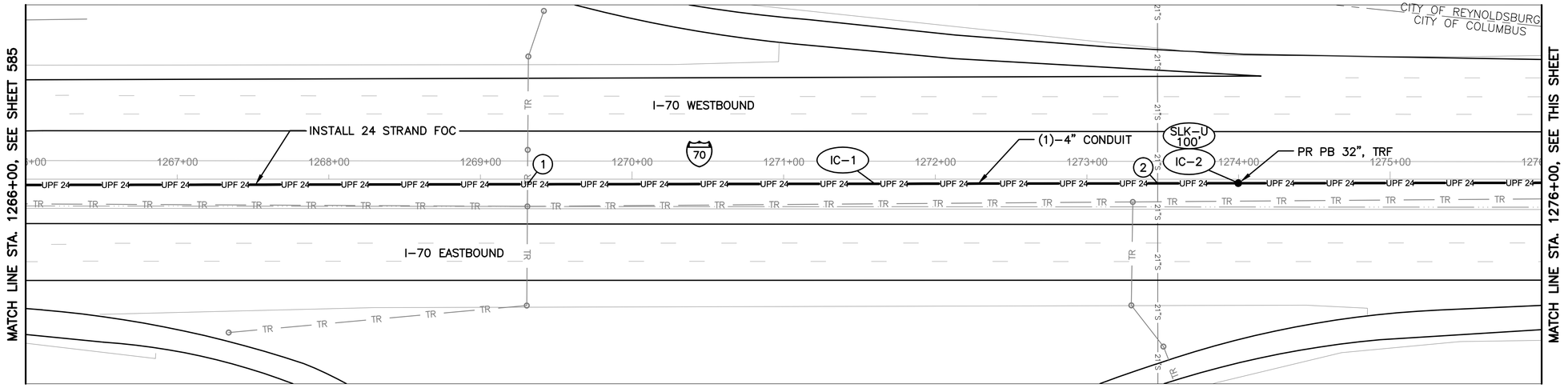
CIP: 540007-100005
PID NUMBER: 14522

2 OF 2 - IR-70 BTW STA. 1254+50 & 1266+00
NODE #070109.9

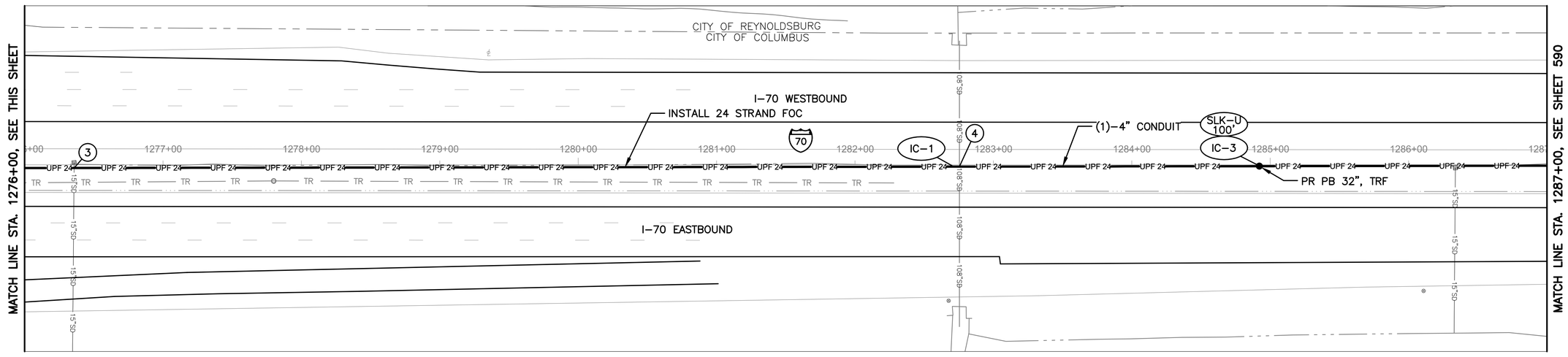
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C - CONSTRUCTION AS-BUILT

588
911

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I-70 BETWEEN STATION 1266+00 AND 1276+00



I-70 BETWEEN STATION 1276+00 AND 1287+00

NOTES:

1. SEE SHEET 591 FOR QUANTITIES.
2. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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

CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 271 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 40 80

CIP: 540007–100005
PID NUMBER: 14522

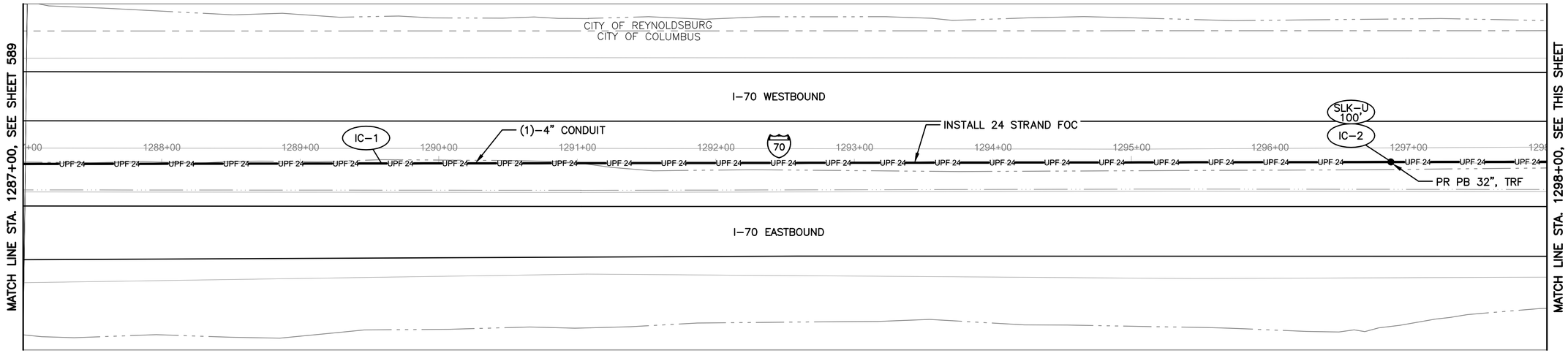
INTERCONNECT PLAN
I–70 BETWEEN STA. 1266+00 AND 1287+00

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

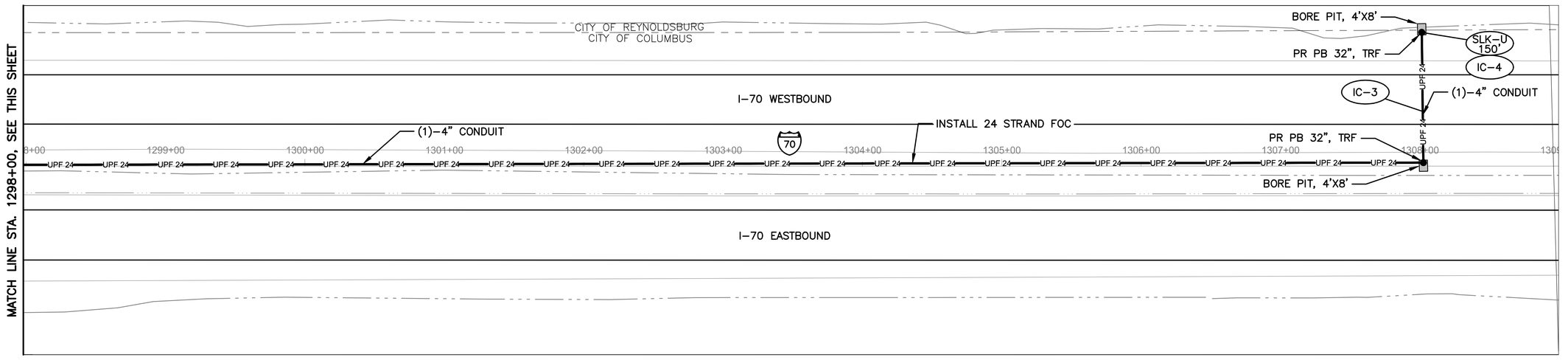
589
911

2953-E

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I-70 BETWEEN STATION 1287+00 AND 1298+00



I-70 BETWEEN STATION 1298+00 AND 1309+00

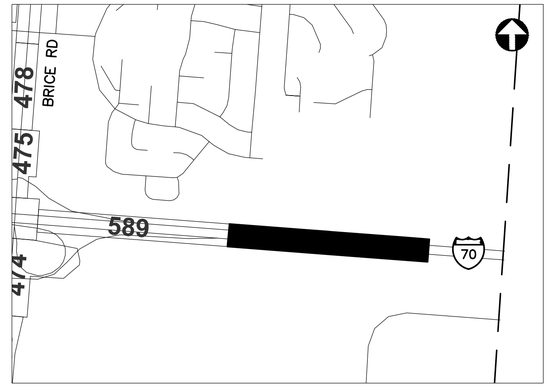
NOTES:

1. SEE SHEET 591 FOR QUANTITIES.
2. 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 271 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
I–70 BETWEEN STA. 1287+00 AND 1309+00

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

590
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 4", AS PER PLAN	625 PULL BOX, 32", AS PER PLAN	625 TRENCH, 36" DEEP, AS PER PLAN	632 INTERCONNECT CABLE, MISC.: FIBER OPTIC CABLE, 24 STRAND
			FROM	TO	FT	FT	EACH	FT	FT
IR-70 BETWEEN STA. 1266+00 AND 1287+00									
589	IC-1	IR-70	1266+00, 4' RT	1287+00, 1' RT	2100			2100	2100
589	IC-2	IR-70	1273+99, 3' RT				1		100
589	IC-3	IR-70	1284+92, 1' RT				1		100
IR-70 BETWEEN STA. 1287+00 AND 1309+00									
590	IC-1	IR-70	1287+00, 1' LT	1308+02, 2' LT	2101		1	2101	2101
590	IC-2	IR-70	1296+87, 1' LT				1		100
590	IC-3	IR-70	1308+01, 96' LT	1308+02, 2' LT		93			93
590	IC-4	IR-70	1308+01, 96' LT				1		150
SHEET TOTAL					4201	93	5	4201	4744

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

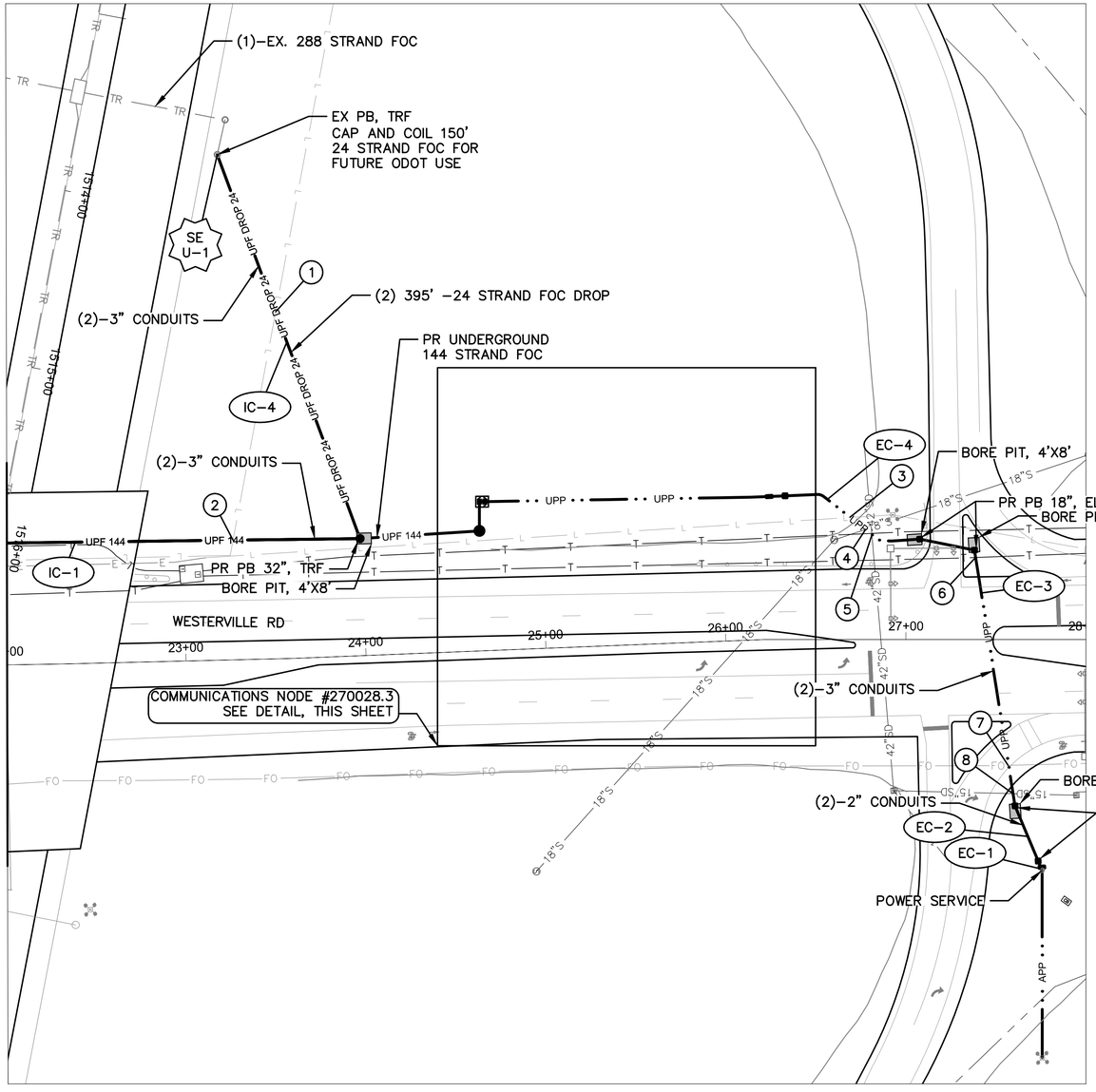
CIP: 540007–100005
PID NUMBER: 14522

IR–70 BTW STA. 1266+00 AND 1309+00

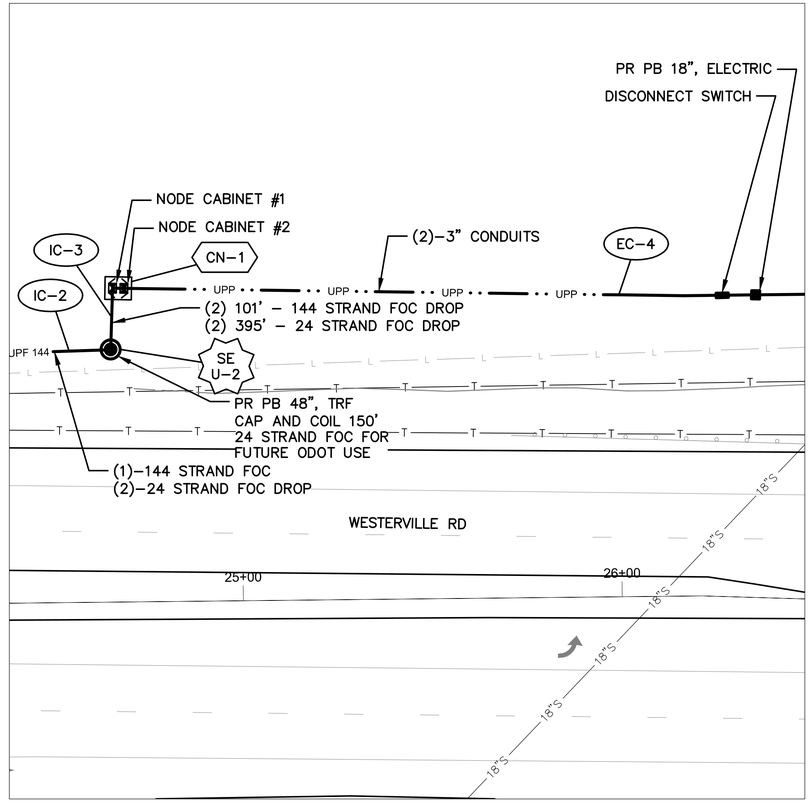
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

591
911

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WESTERVILLE RD BETWEEN STA. 22+00 AND 28+00



DETAIL - COMMUNICATIONS NODE #270028.3

0 20 40
HORIZONTAL
SCALE IN FEET

NOTES:

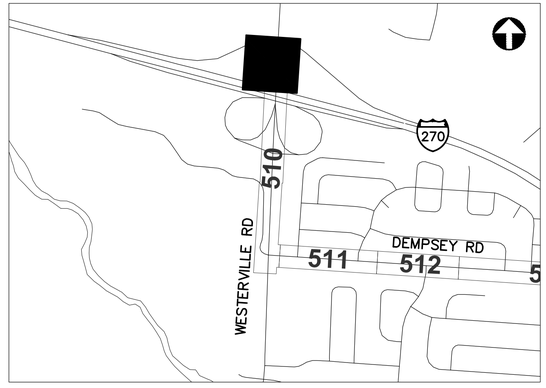
1. SEE SHEETS 593 & 594 FOR QUANTITIES.
2. SEE SHEET 888 FOR COMMUNICATION DETAILS.
3. SEE SHEET 510 FOR WESTERVILLE RD INTERCONNECT DETAILS.
4. SEE SHEET 287 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 275.

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

CITY OF COLUMBUS UTILITY LEGEND

- [x] SEWER
- [ ] WATER
- [ ] POWER
- [ ] LIGHTING



REFER TO SHEET 269 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

0 40 80
HORIZONTAL
SCALE IN FEET

CIP: 540007–100005
PID NUMBER: 14522

COMMUNICATIONS NODE PLAN
WESTERVILLE RD BETWEEN STA. 21+50 AND 27+90, NODE #270028.3

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

592
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		625 CONDUIT, 2", AS PER PLAN	625 CONDUIT, 3", AS PER PLAN	625 CONDUIT, 4", AS PER PLAN	625 CONDUIT, JACKED OR DRILLED, 3", AS PER PLAN	625 NO. 3 AWG 600 VOLT DISTRIBUTION CABLE	625 NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	625 POWER SERVICE, TYPE B, AS PER PLAN	625 PULL BOX, 18", AS PER PLAN	625 PULL BOX, 32", 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.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	632 INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	632 INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 144 FIBER	632 INTERCONNECT, MISC.: TERMINATION PANEL, 24 FIBER, 1 RU	632 INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	633 CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE
			FROM	TO	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH
WESTERVILLE RD. BETWEEN STA. 22+00 AND 28+00, NODE #270028.3																								
592	IC-1	WESTERVILLE RD	21+50, 68' LT	23+99, 65' LT				496					1				248							
592	SE U-1	WESTERVILLE RD	23+24, 281' LT																150		1			
592	IC-4	WESTERVILLE RD	23+24, 281' LT	23+99, 65' LT		454									227				454					
592	IC-2	WESTERVILLE RD	23+99, 65' LT	24+65, 67' LT			132								66		66		132					
592	SE U-2	WESTERVILLE RD	24+65, 67' LT											1			75	150	150		1			
592	IC-3	WESTERVILLE RD	24+65, 67' LT	24+67, 83' LT			36								18			36	36					
592	CN-1	WESTERVILLE RD	24+67, 83' LT															20	20	1		2	2	1
592	EC-4	WESTERVILLE RD	24+67, 83' LT	27+21, 43' LT	536				804	268		1			268									
592	EC-3	WESTERVILLE RD	27+21, 43' LT	27+70, 46' RT				262	393	131		3												
592	EC-2	WESTERVILLE RD	27+70, 46' RT	27+76, 128' RT	164				246	82		1			82									
592	EC-1	WESTERVILLE RD	27+76, 128' RT						105	35	1					2								
SHEET TOTAL					700	454	168	758	1548	516	1	5	1	1	661	2	389	206	942	1	2	2	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

1 OF 2 – WESTERVILLE RD BTW STA. 22+00 AND 28+00
NODE #270028.3

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

593
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC. : FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	633 CONTROLLER ITEM, MISC. : LAYER 3 ETHERNET SWITCH
					EACH	EACH
WESTERVILLE RD. BETWEEN STA. 22+00 AND 28+00, NODE #270028.3						
592	IC-1	WESTERVILLE RD	21+50, 68' LT	23+99, 65' LT		
592	SE U-1	WESTERVILLE RD	23+24, 281' LT			
592	IC-4	WESTERVILLE RD	23+24, 281' LT	23+99, 65' LT		
592	IC-2	WESTERVILLE RD	23+99, 65' LT	24+65, 67' LT		
592	SE U-2	WESTERVILLE RD	24+65, 67' LT			
592	IC-3	WESTERVILLE RD	24+65, 67' LT	24+67, 83' LT		
592	CN-1	WESTERVILLE RD	24+67, 83' LT		6	1
592	EC-4	WESTERVILLE RD	24+67, 83' LT	27+21, 43' LT		
592	EC-3	WESTERVILLE RD	27+21, 43' LT	27+70, 46' RT		
592	EC-2	WESTERVILLE RD	27+70, 46' RT	27+76, 128' RT		
592	EC-1	WESTERVILLE RD	27+76, 128' RT			
SHEET TOTAL					6	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

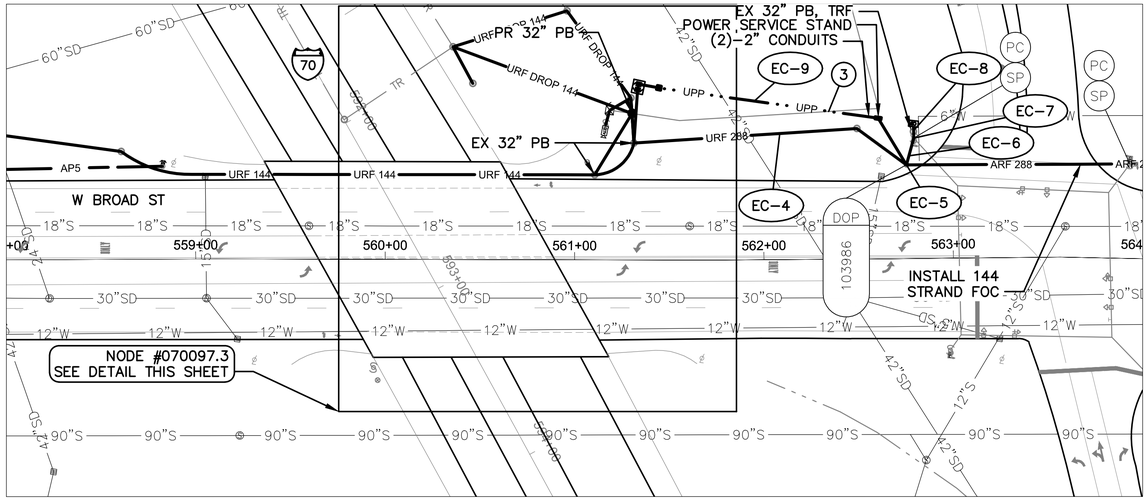
CIP: 540007–100005
PID NUMBER: 14522

2 OF 2 – WESTERVILLE RD BTW STA. 22+00 AND 28+00
NODE #270028.3

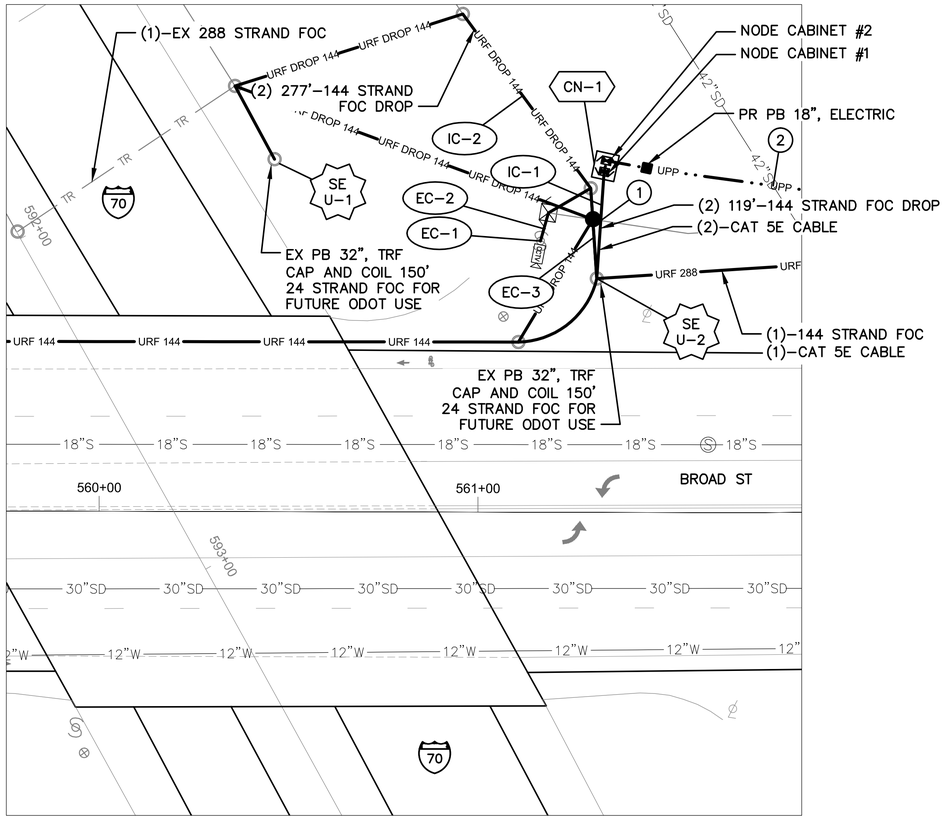
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE C – CONSTRUCTION AS–BUILT

594
911

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BROAD ST BETWEEN STATION 558+00 AND 564+00



DETAIL - NODE #070097.3

0 20 40

HORIZONTAL
SCALE IN FEET

NOTES:

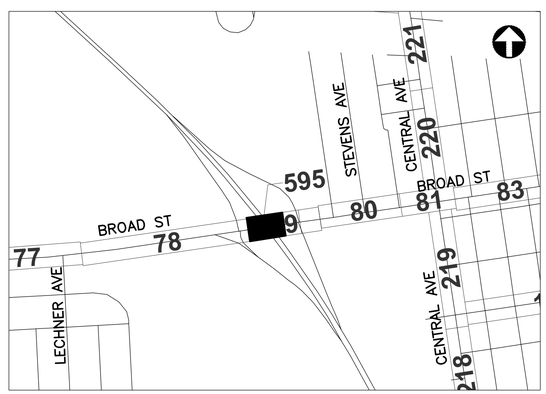
1. SEE SHEET 596 FOR QUANTITIES.
2. SEE SHEET 867 FOR COMMUNICATION DETAILS.
3. SEE SHEET 79 FOR INTERCONNECT DETAILS.
4. SEE SHEET 289 FOR POWER SERVICE DETAILS.
5. LIMITED ACCESS RIGHT OF WAY IS LOCATED OUTSIDE OF THE EXTENT OF VIEWS SHOWN ABOVE.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 274.

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CITY OF COLUMBUS UTILITY LEGEND

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



REFER TO SHEET 268 FOR INTERCONNECT SHEET INDEX

KEY PLAN
NOT TO SCALE

2953-E

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

COMMUNICATION NODE PLAN
BROAD ST BETWEEN STA. 558+00 AND 562+00, NODE #070097.3

CIP: 540007–100005
PID NUMBER: 14522

HORIZONTAL SCALE IN FEET
0 40 80

595
911

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ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION		202	625	625	625	625	625	625	625	632	632	632	632	632	632	632	632	632	633	633	633
					EXISTING CONDUIT CLEANED, AS PER PLAN	CONDUIT, 2", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	NO. 6 AWG 600 VOLT DISTRIBUTION CABLE	POWER SERVICE, TYPE C, AS PER PLAN	PULL BOX, 18", 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 DROP CABLE, 144 STRAND, PRE-TERMINATED	INTERCONNECT CABLE, MISC.: FIBER OPTIC DROP CABLE, 24 STRAND, PRE-TERMINATED	INTERCONNECT, MISC.: DUAL PANEL ASSEMBLY, 24 FIBER, 1 RU, PRE-TERMINATED	INTERCONNECT, MISC.: SPLICE ENCLOSURE, CLAMSHELL, 288 FIBER	INTERCONNECT, MISC.: TERMINATION PANEL, 288 FIBER, 4 RU	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CAT 5E CABLE, OUTDOOR RATED	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH
			FROM	TO	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH
BROAD ST. BETWEEN STA. 558+00 AND 564+00, NODE #070097.3																								
595	SE U-1	BROAD ST	560+48, 98' LT												150	225		1						
595	IC-2	BROAD ST	560+48, 98' LT	561+27, 54' LT	158										316									
595	EC-1	BROAD ST	561+16, 72' LT																		35			
595	EC-2	BROAD ST	561+16, 72' LT	561+30, 86' LT	13																13			
595	SE U-2	BROAD ST	561+27, 54' LT											150	150	225		1						
595	IC-1	BROAD ST	561+27, 54' LT	561+33, 91' LT			38					38			152									
595	EC-3	BROAD ST	561+30, 86' LT	561+33, 91' LT																	54			
595	EC-4	BROAD ST	561+33, 91' LT	562+79, 71' LT																	215			
595	CN-1	BROAD ST	561+33, 91' LT												40		1		2		10	1	6	1
595	EC-9	BROAD ST	561+34, 93' LT	562+76, 49' LT		312		156	468	1	2	156												
595	EC-5	BROAD ST	562+76, 49' LT					35	105				2											
595	EC-6	BROAD ST	562+76, 49' LT	562+79, 64' LT																15	15			
595	EC-7	BROAD ST	562+79, 64' LT																		35			
595	EC-8	BROAD ST	562+79, 64' LT	562+79, 71' LT	8																8			
SHEET TOTAL					179	312	38	191	573	1	2	194	2	150	808	450	1	2	2	15	385	1	6	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. 558+00 AND 564+00
NODE #070097.3

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

596
911

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