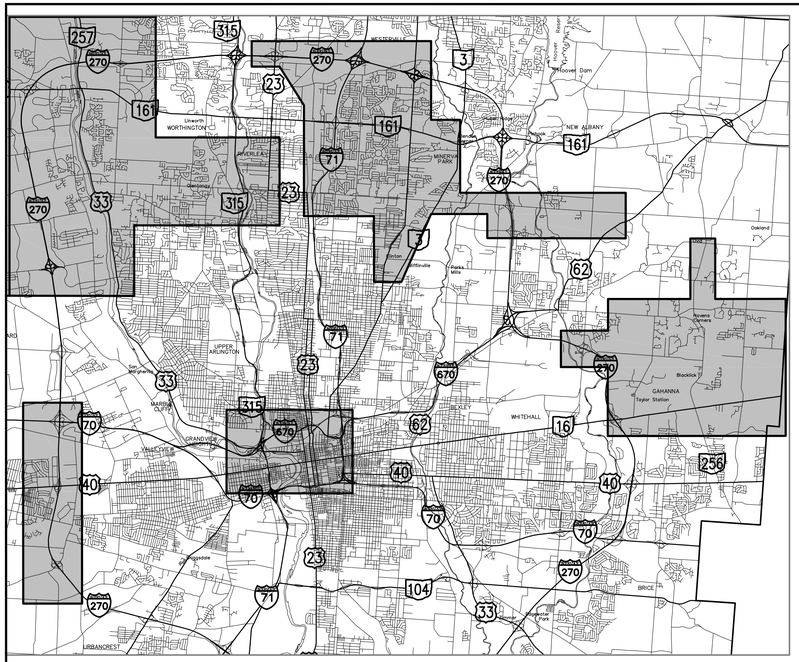
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B

FRA-COLUMBUS TRAFFIC SIGNAL SYSTEM-PHASE B

VOLUME 1 OF 3



LOCATION MAP

– PROJECT AREA

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

SCALE IN MILES

0 2 4 8

FRANKLIN COUNTY APPROVALS

COUNTY ENGINEER DATE

CHIEF DEPUTY DATE

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

COUNTY COMMISSIONER DATE

COUNTY COMMISSIONER DATE

COUNTY COMMISSIONER DATE

HNTB

330 West Spring Street, Suite 310
Columbus, Ohio 43215

REGISTERED ENGINEER DATE

STUDY AREA
SEE SHEET 2 OF 1107

VOL. 1 – INTERSECTIONS: SHEETS 1 TO 370
VOL. 2 – INTERSECTIONS AND INTERCONNECT: SHEETS 371 TO 719
VOL. 3 – COMMUNICATIONS: SHEETS 720 TO 1107

INDEX OF VOLUME 1 SHEETS

TITLE SHEET 1
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LEGEND 3
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GENERAL SUMMARY 31-32
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DETAILS 37-66
INTERSECTION DETAILS AND QUANTITY SHEETS 67-370

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

ODOT STANDARD CONSTRUCTION DRAWINGS		
HL 30.11	MT 95.32	TC 82.10
HL 30.21	MT 95.50	TC 84.20
HL 30.22	MT 95.60	TC 84.21
MT 35.10	MT 95.61	
MT 95.30	MT 97.10	
MT 95.31	MT 105.10	

ODOT SUPPLEMENTAL SPECIFICATIONS	
SS-800	
SS-804	
SS-815	
SS-832	
SS-904	
SS-906	

CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS – JANUARY 1, 2007				
1441	2161	2202	2304	
2000	2166	2220	2319	
2010	2179	2300		
2020	2201	2303		

CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATIONS			
1541, 2-12-2002			
1551, 3-1-2004			

PROJECT DESCRIPTION

THE PURPOSE OF THE CTSS PHASE PROJECTS IS TO MIGRATE THE COLUMBUS TRAFFIC SIGNAL SYSTEM TO AN OPEN ARCHITECTURE THAT CAN SERVE CENTRAL OHIO STAKEHOLDERS WITH SYSTEM CONNECTIVITY AND INTEROPERABILITY. PHASE B WILL INSTALL NEW HEAD END SOFTWARE. 318 SIGNALIZED INTERSECTIONS, 19 NEW CCTV, AND 19 EXISTING CCTV WILL BE CONNECTED TO THE SOFTWARE THROUGH A COMMUNICATIONS NETWORK INSTALLED IN PHASE A. CONNECTIONS WILL BE MADE VIA A FIBER OPTIC AND WIRELESS ETHERNET NETWORK.

2010 ODOT SPECIFICIATIONS

THE SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED SHALL GOVERN ANY ITEMS THAT REFERENCE THE 2010 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

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.

DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION DATE

ADMINISTRATOR, DIVISION OF POWER AND WATER DATE

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE

FIRE PREVENTION BUREAU, DIVISION OF FIRE DATE

ENGINEERING SUPERVISOR, DEPARTMENT OF TECHNOLOGY DATE

DIRECTOR, DEPARTMENT OF RECREATION AND PARKS DATE

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE

REF NO	REVISION DESCRIPTION	SHEET OR SHEETS	INITIAL	DATE

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

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

TITLE SHEET VOLUME 1 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

1 / 1107

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DUBLIN
WESTERVILLE
WORTHINGTON
RIVERLEA
MINERVA PARK
HILLIARD
UPPER ARLINGTON
GAHANNA
MARBLE CLIFF
GRANDVIEW HEIGHTS
VALLEYVIEW
BEXLEY
WHITEHALL
REYNOLDSBURG
PICKERINGTON

SAWMILL RD
WORTHINGTON GALENA RD
CLEVELAND AVE
SNOUFFER RD
WILSON BRIDGE RD
SCHROCK RD
DUBLIN-GRANVILLE RD
TUTTLE CROSSING BLVD
FRANTZ RD
HAYDEN RUN RD
BETHEL RD
GODOWN RD
LINWORTH RD
OLENTANGY RIVER RD
SINCLAIR RD
KARL RD
MORSE RD
REED RD
HENDERSON RD
COOKE RD
MAIZE RD
WESTERVILLE RD
STELZER RD
DUBLIN RD
CEMETERY RD
FISHINGER RD
KENNY RD
ACKERMAN RD
E NORTH BROADWAY
E HUDSON ST
E 25TH AVE
E 17TH AVE
E 11TH AVE
LANE AVE
ROBERTS RD
N HIGH ST
INTERNATIONAL GATEWAY
HAVENS CORNERS RD
REYNOLDSBURG NEW ALBANY RD
WAGGONER RD
WILSON RD
N HAGUE AVE
DUBLIN RD
E BROAD ST
W BROAD ST
ODOT TE Shop & Campus
ODOT Central Office
SEE DETAIL A
MILLER AVE
KELTON AVE
LIVINGSTON AVE
E MAIN ST
HAMILTON RD
S. JAMES RD
GEORGESVILLE RD
ALKIRE RD

Columbus Traffic Management Center
1881 E 25th Ave

James V. Musick Traffic Engineering Facility

INTERSTATE 270
INTERSTATE 71
INTERSTATE 670
INTERSTATE 70
US 33
US 161
US 315
US 23
US 16
US 40

DETAIL A

Franklin County Engineer's Office
TMC Hub
OLENTANGY RIVER RD
NEIL AVE
HIGH ST
GAY ST
CLEVELAND AVE
GOODALE ST
VINE ST
NATIONWIDE BLVD
DUBLIN RD
SPRING ST
LONG ST
GAY ST
STATE ST
TOWN ST
RICH ST
E MAIN ST
FULTON ST
MOUND ST
E BROAD ST
MARCONI BLVD
PARSONS AVE
3RD ST
2ND ST
1ST ST

Legend

- Phase B Agency Connection to Backbone Fiber
- Future Phase Agency Connection to Backbone Fiber
- Existing Agency Connection to Backbone Fiber
- Existing Phase A Comm Node
- Proposed Phase B Comm Node
- Future Phase Comm Node
- Existing 288 SMF Backbone
- Proposed 288 SMF Backbone
- Proposed 144 SMF Interconnect
- CityNet (Hyland)
- FiberNet
- Fiber Net Splice Location
- Gahanna DoT Connection
- Columbus Signal
- Columbus Signal with Ex. CCTV
- Columbus Signal with Pr. CCTV
- Franklin County Signal
- Citynet Splice Location
- ODOT Signal
- Wireless Communications Only

PID NUMBER 13034

COMMUNICATION SHEETS
PLACEHOLDERS FOR SHEET SET

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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TRAFFIC LEGEND

- SIGNAL HEAD
- TR — EXISTING TRAFFIC CONDUIT
- PROPOSED WOODEN UTILITY POLE
- EXISTING WOODEN UTILITY POLE
- SP — EXISTING STRAIN POLE
- CB — EXISTING SIGNAL CONTROLLER
- CB — SIGNAL CONTROLLER REPLACED
- PS — EXISTING POWER SUPPLY
- MAST ARM
- RAMP METER, EXISTING
- CCTV — CCTV DEVICE, EXISTING
- CCTV DEVICE, PROPOSED
- OVERHEAD SIGN STRUCTURE, EXISTING
- DETECTOR LOOP, EXISTING
- DETECTOR STATION, EXISTING
- VDS CABINET, EXISTING
- PROPOSED WIRELESS ANTENNA
- EXISTING PULL BOX
- PROPOSED PULL BOX
- EXISTING ITS EQUIPMENT CABINET
- PROPOSED ITS EQUIPMENT CABINET
- EXISTING COMMUNICATION NODE
- PROPOSED 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
- C — COMBINED MANHOLE
- D — STORM MANHOLE
- S — SANITARY MANHOLE
- STM — STORM MANHOLE (2)
- W — WATER VALVE
- SD — STORM DRAIN
- S — SANITARY LINE
- W — WATER
- C — COMBINED LINE
- E — E — UNDERGROUND ELECTRIC LINE

POWER, LIGHTING AND COMMUNICATIONS LEGEND

- LIGHTING CENTER
- L — LIGHTING CONDUIT
- P — POWER CONDUIT
- T — TELECOMMUNICATIONS CONDUIT
- HIGH MAST LIGHTING TOWERS
- T — EXISTING TELECOMMUNICATION PULL BOX
- E — EXISTING ELECTRICAL PULL BOX
- LUMINARIES
- LIGHT POLES
- UTILITY POLES
- POWER/LIGHT POLES

LAND FEATURE LEGEND

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

PROPOSED ITS LINETYPES

- UGFBR — PROPOSED FIBER IN PROPOSED CONDUIT
- UGPWR — PROPOSED POWER IN PROPOSED CONDUIT
- ICNEW — PROPOSED AERIAL FIBER INTERCONNECT
- C5NEW — PROPOSED AERIAL CAT 5
- OHPWR — PROPOSED AERIAL POWER
- PROPOSED RG6 DROP CABLE IN EXISTING CONDUIT
- C5OVL — PROPOSED AERIAL CAT 5 OVERLASHED
- ICOVL — PROPOSED AERIAL INTERCONNECT OVERLASHED
- ICRPL — PROPOSED AERIAL INTERCONNECT REPLACEMENT
- PROPOSED FIBER IN EXISTING CONDUIT
- PROPOSED CAT 5 IN EXISTING CONDUIT
- UGC5 — PROPOSED CAT 5 IN PROPOSED CONDUIT
- STFBR — PROPOSED FIBER IN PROPOSED CONDUIT ATTACHED TO STRUCTURE
- STRC5 — PROPOSED CAT 5 IN PROPOSED CONDUIT ATTACHED TO STRUCTURE
- STPWR — PROPOSED POWER IN PROPOSED CONDUIT ATTACHED TO STRUCTURE
- x — IC — x — EXISTING INTERCONNECT TO BE REMOVED
- CCTV COMPOSITE CABLE

EXISTING UTILITY POLES

POLE TYPE

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

CONNECTION TYPE

- PC — POLE CLAMP
- SO — STAND OFF
- NC — NOT CONNECTED

- AEP / 1865463 / 7606636 — AEP POLE WITH XY COORDINATES
- DOPW / 7606636 — DOPW WITH SIX DIGIT ID
- AT&T / 1877088 / 758521 — AT&T POLE WITH XY COORDINATES
- UNK / NO ID — EXISTING POLE MISSING ID

ABBREVIATIONS

BTW – BETWEEN
CFN – COLUMBUS FIBERNET
CN – CITYNET (HYLAND)
COC – CITY OF COLUMBUS
CONT. – CONTROLLER
CTSS – COLUMBUS TRAFFIC SIGNAL SYSTEM
DOPW – DEPARTMENT OF POWER AND WATER
DOT – DEPARTMENT OF TECHNOLOGY
EA – EACH
EX. – EXISTING
IC – INTERCONNECT
LF – LINEAR FEET
PB – PULL BOX
PR. – PROPOSED
STA. – STATION
TR or TRF – TRAFFIC
UNK – UNKNOWN
UT – UNDERGROUND TANKS
W/ – WITH

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

LEGEND & ABBREVIATIONS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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INTERCONNECT SHEETS

QUANTITIES INCLUDE ALL 144 STRAND FIBER OPTIC TRUNK CABLE AND ANY ASSOCIATED EQUIPMENT OR INFRASTRUCTURE REQUIRED TO INSTALL THE TRUNK 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.

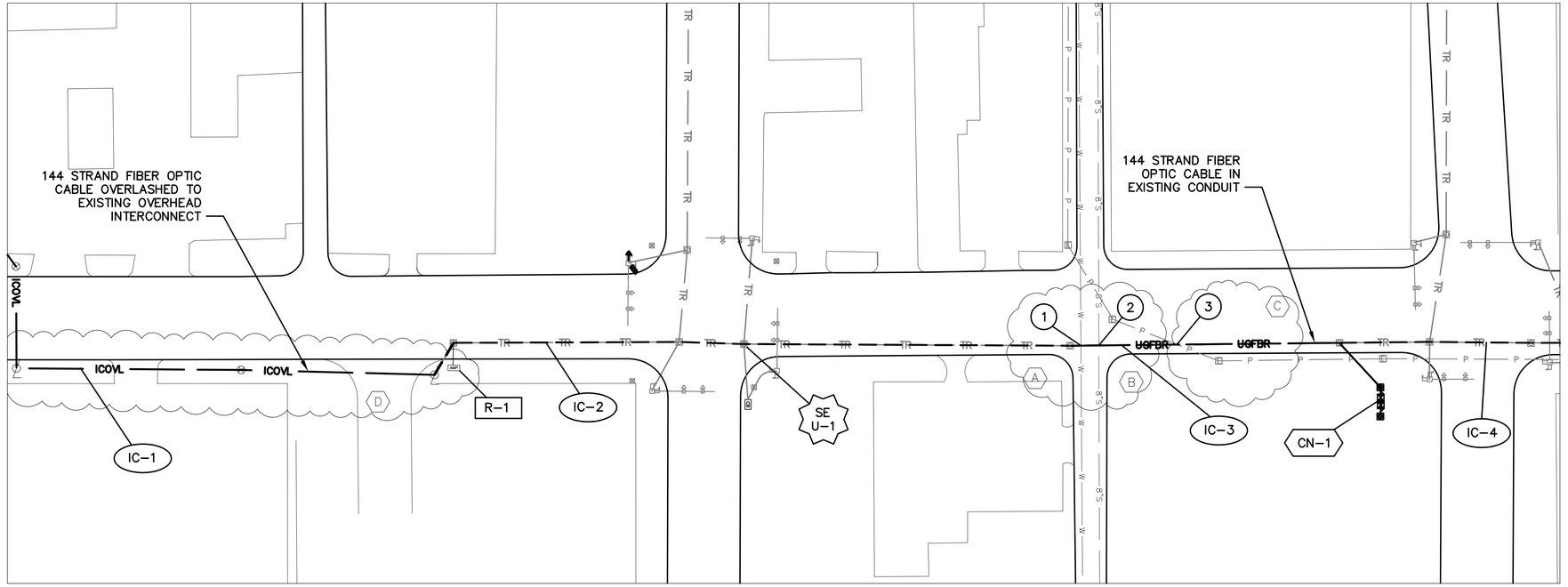
IN THE EXAMPLE TO THE RIGHT, THE FOLLOWING ITEMS ARE QUANTIFIED WITHIN THE ASSOCIATED INTERCONNECT QUANTITY SHEET:

IC–# — 144 STRAND 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)

R–# — REMOVE EXISTING EQUIPMENT

CN–# — COMMUNICATIONS NODE CABINET



INTERSECTION SHEETS

QUANTITIES INCLUDE ALL FIBER OPTIC DROP CABLES FROM INTERCONNECT TRUNK CABLES, ALL ASSOCIATED EQUIPMENT OR INFRASTRUCTURE REQUIRED TO CONNECT DROP CABLE TO SIGNAL CONTROLLER EQUIPMENT CABINET, AND ALL WIRELESS AND COMMUNICATIONS NETWORK EQUIPMENT AS SPECIFIED WITHIN THE PLAN SHEET.

IN THE EXAMPLE TO THE RIGHT, THE FOLLOWING ITEMS ARE INCLUDED WITHIN THE ASSOCIATED INTERSECTION QUANTITY SHEET:

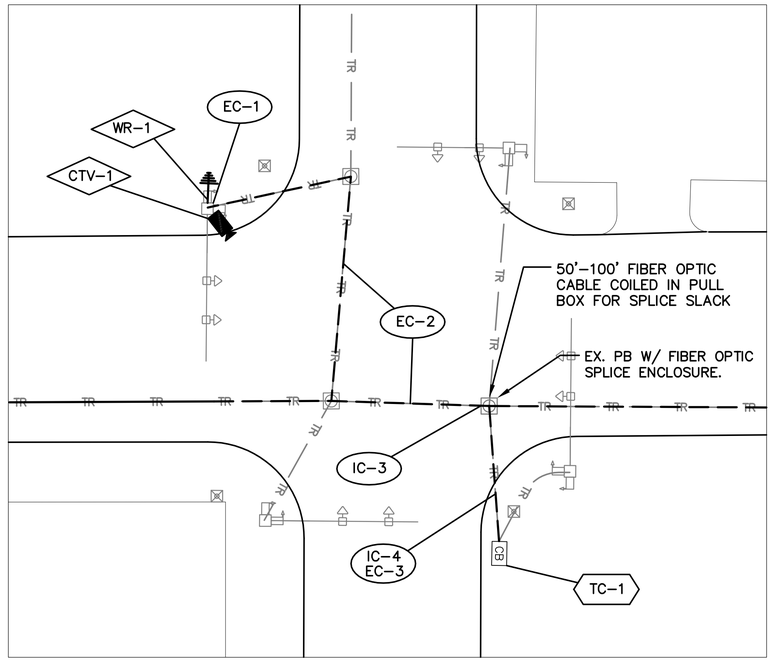
IC–# — 24 OR 48 STRAND FIBER OPTIC DROP CABLE
- INSTALLED IN EXISTING CONDUIT (CONDUIT CLEANED)
- INSTALLED IN NEW CONDUIT
- INSTALLED ON NEW MESSENGER WIRE
- OVERLASHED TO EXISTING OVERHEAD INTERCONNECT
- REPLACING EXISTING OVERHEAD INTERCONNECT

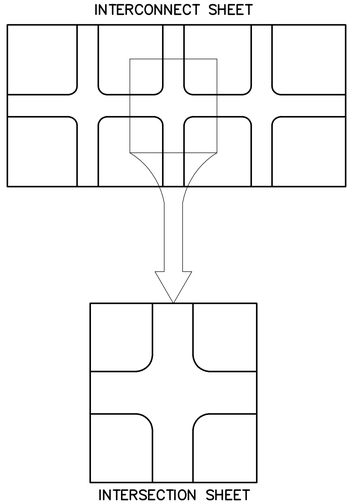
TC–# — IN EXISTING SIGNAL CONTROL CABINET
- 24 OR 48 STRAND FIBER OPTIC TERMINATION PANEL
- LAYER 2 ETHERNET NETWORK SWITCH
- FIBER OPTIC–ETHERNET TRANSCEIVER
- ETHERNET–SERIAL DATA TERMINAL SERVER –OR–
- TRAFFIC SIGNAL CONTROLLER

EC–# — EQUIPMENT DATA/POWER CABLE

WR–# — WIRELESS NETWORK RADIO

CTV–# — CCTV TRAFFIC SURVEILLANCE CAMERA





CITY OF COLUMBUS UTILITY LEGEND

☒ SEWER	A	EXISTING SEWER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
☒ WATER	B	EXISTING WATER LINES IN THE VICINITY OF PROPOSED UNDERGROUND WORK.
☒ POWER	C	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	D	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.

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

NOTE:
CLOUDS SHOWN ON THIS EXAMPLE FOR CLARIFICATION PURPOSES ONLY.

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

SHEET QUANTITY AND UTILITY LEGEND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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EXISTING COC MASTER SIGNALIZED INTERSECTIONS

EXISTING COC SIGNALIZED INTERSECTIONS

FUTURE COC SIGNALIZED INTERSECTIONS

FRANKLIN COUNTY SIGNALIZED INTERSECTIONS

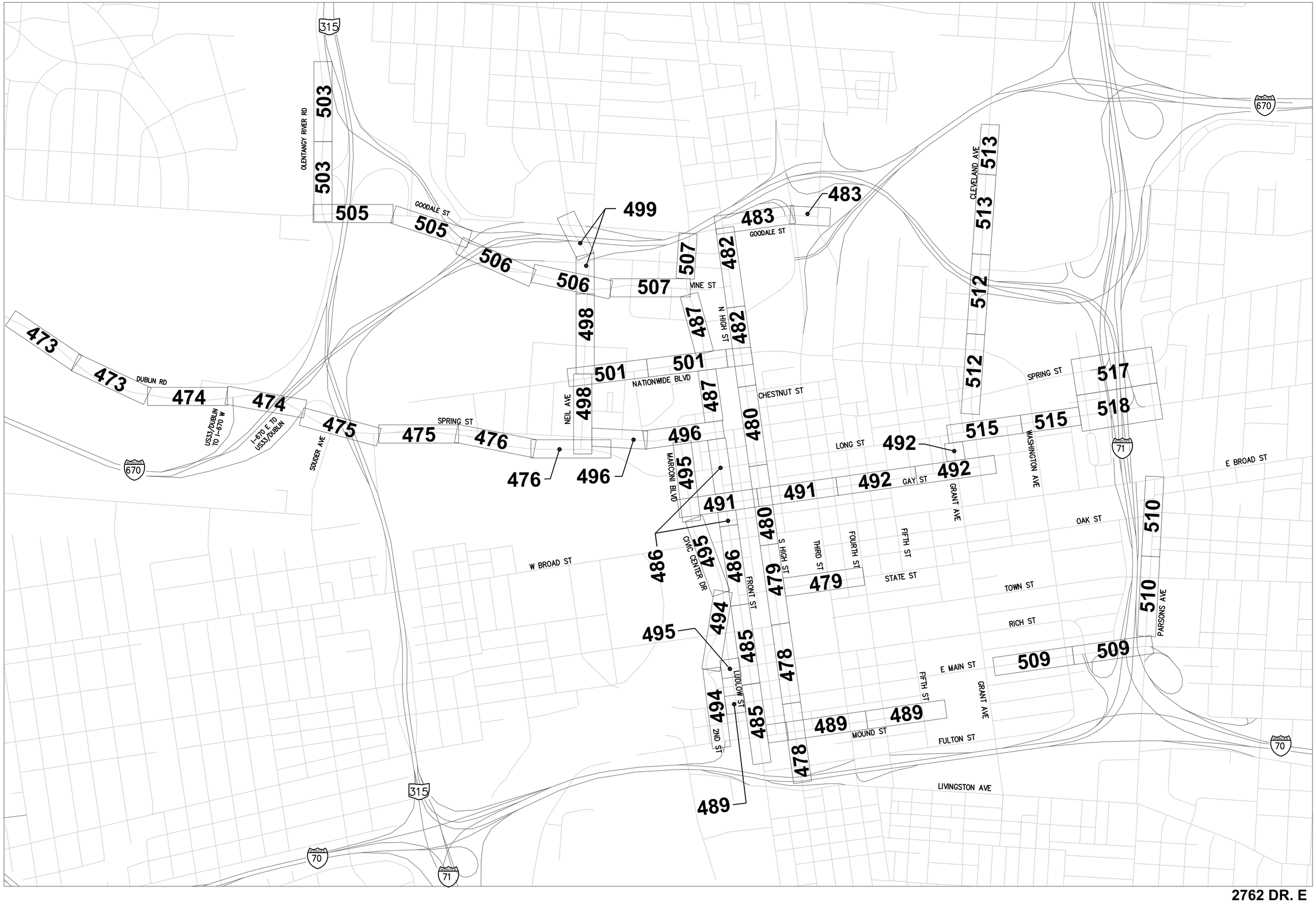
PID NUMBER
13034

OUTLYING AREAS
INTERSECTION OR INTERCONNECT INDEX PLAN

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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2762 DR. E

HORIZONTAL SCALE IN FEET
0 600 1200

PID NUMBER
13034

DOWNTOWN AREA
INTERCONNECT SHEET INDEX

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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2762 DR. E

PID NUMBER 13034

DOWNTOWN AREA
INTERSECTION INDEX PLAN

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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HAMILTON RD

REYNOLDSBURG NEW ALBANY RD

HAVENS CORNERS RD

TAYLOR STATION RD

TAYLOR RD

REYNOLDSBURG NEW ALBANY RD

WAGGONER RD

EAST BROAD ST

270

604

633 633 632 632 631 631 630 630

640 640 641 641 642 642 643 643

638 638 639 639

624 623 623 622 622

621 621 620 620

629 628 628 627 627

626 626

636 636 636 635 635

619 619

605 605 606 606 607 607 608 608 609 609 610 610 611 611 612 612 613 613 614 614 615 615

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

EAST COLUMBUS HAVENS CORNER AREA INTERCONNECT
SHEET INDEX

PID NUMBER
13034

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1107

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

SOUTHWEST COLUMBUS 270/GEORGESVILLE AREA
INTERCONNECT SHEET INDEX

PID NUMBER
13034

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1107

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MATCH LINE A

270

DUBLIN–GRANVILLE RD

MARTIN RD

SAWMILL RD

SUMMIT VIEW RD

HARD RD

MATCH LINE A

DUBLIN RD

TUTTLE CROSSING BLVD/RD

FRANTZ RD

270

HILLIARD CEMETERY RD

FISHINGER BLVD/RD

270

WEST CASE RD

SAWMILL RD

BETHEL RD

GODOWN RD

REED RD

HENDERSON RD

KENNY RD

RIVER RD

OLENTANGY

315

NORTHWEST AREA
INTERCONNECT SHEET INDEX

PID NUMBER
13034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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NORTH – NORTHEAST AREA
INTERCONNECT SHEET INDEX

PID NUMBER
13034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
0001		1831097.0	718730.0	Cleveland Ave.	Jack Gibbs Blvd.	67
0002		1831078.0	718458.0	Cleveland Ave.	I-670 EB On Ramp	68
0003		1831021.0	717625.0	Cleveland Ave.	Mt. Vernon Ave.	70
0004		1827315.0	717487.0	Front St.	Nationwide Blvd.	73
0005		1827809.0	717560.0	High St.	Nationwide Blvd.	74
0006		1829071.0	717636.0	Fourth St.	Naghten St. & Mt. Vernon Ave. & Nationwide Blvd	75
0007		1831206.0	720445.0	Cleveland Ave.	Fort Hayes	77
0008		1827882.0	717049.0	Chestnut St.	High St.	79
0009		1828630.0	717152.0	Chestnut St.	Third St.	80
0010		1829116.0	717223.0	Chestnut St.	Fourth St.	76
0012		1825592.0	716425.0	Neil Ave.	Spring St.	81
0013		1826969.0	716419.0	Marconi Blvd.	Spring St.	82
0014		1829183.0	716750.0	Front St.	Spring St.	83
0015		1827952.0	716561.0	High St.	Spring St.	85
0016		1828700.0	716667.0	Spring St.	Third St.	87
0017		1829185.0	716739.0	Fourth St.	Spring St.	86
0018		1830651.0	716886.0	Grant Ave.	Spring St.	88
0019		1830981.0	716965.0	Cleveland Ave.	Spring St.	90
0020		1831748.0	717157.0	Spring St.	Washington Ave.	92
0021		1830577.0	714158.0	Sixth St.	Town St.	91
0022		1827040.0	715930.0	Long St.	Marconi Blvd.	93
0023		1827527.0	716000.0	Front St.	Long St.	94
0024		1828022.0	716071.0	High St.	Long St.	97
0025		1828769.0	716179.0	Long St.	Third St.	96
0026		1829255.0	716248.0	Fourth St.	Long. St.	98
0027		1830711.0	716461.0	Grant Ave.	Long St.	101
0028		1831024.0	716513.0	Cleveland Ave.	Long St.	102
0029		1831825.0	716628.0	Long St.	Washington Ave.	99
0030		1832578.0	716731.0	Long St.	Jefferson Ave.	199
0031		1827366.0	713170.0	Civic Center Dr.	Rich St.	103
0033		1827595.0	715515.0	Front St.	Gay St.	104
0034		1828091.0	715585.0	Gay St.	High St.	105
0035		1828838.0	715692.0	Gay St.	Third St.	107
0036		1829325.0	715762.0	Fourth St.	Gay St.	110
0038		1830779.0	715970.0	Gay St.	Grant Ave.	111
0039		1827281.0	714953.0	Broad St.	Civic Center Dr. & Marconi Blvd.	113
0040		1827669.0	715010.0	Broad St.	Front St.	114
0041		1828910.0	715183.0	Broad St.	Third St.	109
0042		1829397.0	715255.0	Broad St.	Fourth St.	116
0043		1829920.0	715330.0	Broad St.	Fifth St.	119
0044		1830393.0	715399.0	Broad St.	Sixth St.	117
0045		1830852.0	715464.0	Broad St.	Grant Ave.	121
0046		1831162.0	715509.0	Broad St.	Cleveland Ave.	122
0047		1831970.0	715625.0	Broad St.	Washington Ave.	120
0048		1832962.0	715767.0	Broad St.	I-71 SB Off Ramp	123
0049		1833249.0	715770.0	Broad St.	I-71 NB Off Ramp	125
0050		1833498.0	715843.0	Broad St.	Parsons Ave.	126
0051		1830921.0	714979.0	Grant Ave.	Oak St.	127
0052		1832039.0	715144.0	Oak St.	Washington Ave.	129
0053		1833488.0	715354.0	Oak St.	Parsons Ave.	131
0054		1827778.0	714244.0	Front St.	State St.	137
0055		1828271.0	714323.0	High St.	State St.	132
0056		1829020.0	714428.0	State St.	Third St.	133

INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
0057		1829504.0	714500.0	Fourth St.	State St.	134
0058		1830505.0	714644.0	Sixth St.	State St.	135
0059		1830959.0	714710.0	Grant Ave.	State St.	128
0061		1827848.0	713766.0	Front St.	Town St.	138
0062		1828342.0	713836.0	High St.	Town St.	139
0063		1829089.0	713944.0	Third St.	Town St.	140
0064		1829574.0	714014.0	Fourth St.	Town St.	141
0065		1831026.0	714222.0	Grant Ave.	Town St.	143
0066		1832145.0	714383.0	Town St.	Washington Ave.	144
0067		1833433.0	714493.0	Bryden Rd. & Town St.	Parsons Ave.	145
0068		1827918.0	713280.0	Front St.	Rich St.	150
0069		1828412.0	713353.0	High St.	Rich St.	151
0070		1829162.0	713462.0	Rich St.	Third St.	152
0071		1829644.0	713526.0	Fourth St.	Rich St.	153
0072		1831096.0	713735.0	Grant Ave.	Rich St.	155
0073		1827508.0	712724.0	Main St.	Second St.	160
0074		1827986.0	712791.0	Front St.	Main St.	161
0075		1828481.0	712864.0	High St.	Main St.	162
0076		1829229.0	712972.0	Main St.	Third St.	163
0077		1829714.0	713040.0	Fourth St.	Third St.	156
0078		1830244.0	713118.0	Fifth St.	Third St.	157
0079		1831166.0	713248.0	Grant Ave.	Third St.	158
0080		1832286.0	713412.0	Main St.	Washington Ave.	146
0081		1833375.0	713545.0	Main St.	Parsons Ave.	147
0082		1828056.0	712305.0	Front St.	Mound St.	164
0083		1828551.0	712374.0	High St.	Mound St.	166
0084		1829300.0	712484.0	Mound St.	Third St.	167
0085		1829784.0	712552.0	Fourth St.	Mound St.	168
0086		1831006.0	717382.0	Cleveland Ave.	Naghten St.	71
0087		1828621.0	711891.0	Fulton St.	High St.	169
0088		1829366.0	712003.0	Fulton St.	Third St.	174
0089		1829850.0	712078.0	Fourth St.	Fulton St.	175
0090		1828155.0	711622.0	Front St.	Fulton St. & Livingston Ave.	172
0091		1828666.0	711559.0	High St.	Livingston Ave.	170
0092		1829417.0	711628.0	Livingston Ave.	Third St.	176
0093		1828164.0	715082.0	Broad St.	High St.	115
0094		1830174.0	713603.0	Fifth St.	Rich St.	178
0095		1832546.0	713446.0	I-71 SB On & Off Ramp	Main St.	149
0096		1827575.0	712243.0	Mound St.	Second St.	173
0098		1828874.0	715451.0	Lynn Alley	Third St.	108
0099		1825641.0	717235.0	Nationwide Blvd.	Neil Ave.	184
0101		1822754.0	716469.0	Dublin Rd.	SR-315 NB	297
0102		1822180.0	716544.0	Dublin Rd.	Souder Ave.	298
0103		1821754.0	716768.0	Dublin Rd.	SR 315 SB On Ramp & I-670 EB Off Ramp	299
0104		1820819.0	716969.0	Dublin Rd.	I-670 WB On Ramp	300
0105		1820349.0	716936.0	Dublin Rd.	Twin Rivers Dr.	301
0106		1827060.0	718460.0	Front St. & Park St.	Vine St.	179
0107		1827672.0	718499.0	High St.	Vine St.	180
0108		1827390.0	716961.0	Front St.	Nationwide Garage	181
0109		1826470.0	716372.0	Spring St.	West St.	182
0112		1826307.0	718515.0	Kilbourne St.	Vine St.	188
0113		1825664.0	717675.0	Brodbelt Ln.	Neil Ave.	185
0116		1832699.0	717339.0	Lester Dr.	Spring St.	203

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PID NUMBER 13034

INTERSECTION INDEX TABLE 3
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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
0117		1833171.0	717403.0	Elijah Pierce Dr.	Spring St.	202
0118		1832832.0	716768.0	Lester Dr.	Long St.	201
0126		1831052.0	718031.0	Cleveland Ave.	Jefferson Ave.	69
1034		1796904.0	707830.0	Georgesville Rd.	Sullivant Ave North	359
1035		1796833.0	707305.0	Atlanta Dr.	Georgesville Rd.	360
1036		1796731.0	706605.0	Georgesville Rd.	Sullivant Ave South	362
1052		1796279.0	705531.0	Clime Rd. North	Georgesville Rd.	358
1053		1795891.0	704577.0	Clime Rd.	Georgesville Rd.	354
1096		1793501.0	700351.0	Automall Dr. & Holt Rd.	Georgesville Rd.	350
1099		1795036.0	701650.0	Georgesville Rd.	I-270 NB Ramps	351
1100		1794214.0	700763.0	Georgesville Rd.	I-270 SB Ramps	352
1101		1795439.0	702284.0	Georgesville Rd.	Parkwick Dr.	356
1103		1795620.0	703466.0	Georgesville Rd.	Hall Rd.	357
1104		1794828.0	696415.0	Alkire Rd.	Holt Rd.	363
1105		1791782.0	699834.0	Boltonfield St.	Georgesville Rd.	353
1107		1794751.0	698747.0	Holt Rd.	Holt Run Dr.	364
3029		1831777.2	746204.9	Cooke Rd.	Maize Rd.	407
3052		1833482.0	716860.0	Long St.	Hamilton Ave.	200
3071		1872325.0	722801.0	Celestica & Westbourne Rd.	Taylor Station Rd.	304
3072		1872285.5	722233.5	Medical Center Dr.	Taylor Station Rd.	303
3080		1872216.2	721094.8	E. Broad St.	Taylor Station Rd.	305
3081		1874287.0	721437.0	E. Broad St.	McNaughten Rd.	306
3082		1877770.0	721929.0	E. Broad St.	Rosehill Rd.	307
3083		1880499.0	722313.0	E. Broad St.	Reynoldsburg New Albany Rd.	309
3084		1879489.0	722178.0	E. Broad St.	Eastpointe Shopping Center	310
3085		1878690.0	722060.0	E. Broad St.	Giant Eagle Center	311
3092		1859238.0	749294.0	Morse Rd.	Stygler Rd.	409
3154		1838555.0	740188.0	Cleveland Ave.	Oakland Park Ave.	288
3159		1841460.0	746917.0	Cleveland Ave.	Ferris Rd.	289
3161		1855002.0	749604.0	I-270 SB Ramps	Morse Rd.	410
3162		1856164.0	749527.0	I-270 NB Ramps	Morse Rd.	411
3163		1857170.0	749441.0	Appian Way & Limited Pkwy	Morse Rd.	412
3164		1860365.0	749213.0	Cherrybottom Rd.	Morse Rd.	413
3165		1831937.0	748646.0	Garden Rd.	Maize Rd.	406
3167		1875260.0	721587.0	E. Broad St.	Celestica Dr. & Speedway	312
3168		1828866.0	719452.0	Fourth St.	Goodale St.	191
3209		1850179.0	749893.0	Morse Rd.	Sunbury Rd.	415
3228		1853600.0	749685.0	Morse Rd.	Stelzer Rd.	416
3229		1853980.0	746265.0	Easton Way	Stelzer Rd.	422
3231		1852510.0	749746.0	Easton Loop & Easton Sq	Morse Rd.	417
3237		1851426.0	749814.0	Morse Rd.	Morse Crossing	419
3263		1888252.5	723401.3	E. Broad St.	Meijer	313
3264		1886927.0	723210.0	E. Broad St.	Waggoner Rd.	315
3265		1891332.0	723828.0	E. Broad St.	Limited Dr & TS Center & TS Center	316
3267		1876909.0	721805.0	Brice Rd.	E. Broad St.	317
3274		1882860.0	722633.0	Bannockburn Blvd.	E. Broad St.	318
3279		1889507.0	723581.0	E. Broad St.	Cedar Cliff	319
3290		1844029.0	750297.0	Chesford Rd.	Morse Rd.	418
3291		1846061.0	750177.0	Morse Rd.	Westerville Rd.	421
3303		1886888.0	727797.0	Chapel Stone Rd.	Waggoner Rd.	322
3306		1887044.0	730578.0	Kennedy Rd.	Waggoner Rd.	323
4030		1817949.0	747884.0	Henderson Rd.	Lauraland Dr.	389
4031		1816696.0	748044.0	Henderson Rd.	Knightsbridge Blvd. & Desantis Dr.	390

INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
4066		1825720.0	718842.0	Neil Ave.	Spruce St.	186
4067		1827100.0	719225.6	Goodale St.	Park St.	195
4068		1825447.0	719337.0	Goodale Blvd.	Neil Ave.	192
4070		1823232.0	719452.0	Goodale St.	SR-315 NB Ramps	194
4071		1822064.0	719486.0	Goodale St.	Olentangy River Rd. & Twin Rivers Dr.	197
4075		1825702.0	718467.0	Neil Ave.	Vine St.	187
4085		1822031.0	720071.0	Olentangy River Rd.	SR-315 SB Ramps	193
4092		1811101.0	748395.0	Henderson Rd.	Larwell Dr.	391
4108		1820723.0	747746.0	Henderson Rd.	Olentangy Blvd.	392
4109		1819527.0	747800.0	Henderson Rd.	SR-315 NB Ramps	393
4110		1819082.0	747822.0	Henderson Rd.	Olentangy River Rd.	395
4111		1814628.0	748248.0	Henderson Rd.	Kenny Rd.	396
4112		1812346.0	748344.0	Henderson Rd.	Winterset Dr.	397
4113		1809789.0	748618.0	Henderson Rd.	Reed Rd.	398
4114		1808392.0	749322.0	Gettysburg Rd. & Green Tree Center Dr.	Henderson Rd.	399
4115		1807438.0	749806.0	Dierker Rd.	Henderson Rd.	401
4116		1814604.0	747691.0	Kenny Rd.	Old Henderson Rd.	402
4117		1819063.0	748972.0	Jasonway Ave.	Olentangy River Rd.	403
4118		1818040.0	751874.0	Bethel Rd.	Olentangy River Rd.	275
4120		1812604.0	752144.0	Bethel Rd.	Godown Rd.	276
4121		1809926.0	752279.0	Bethel Rd.	Reed Dr.	277
4122		1808749.0	752340.0	Bethel Rd.	McKitrick Blvd.	278
4125		1802451.0	752656.0	Bethel Rd.	Sawmill Rd.	424
4126		1803022.0	764316.0	Dublin Granville Rd.	Sawmill Rd.	443
4141		1817304.0	751910.0	Bethel Rd.	Olentangy Plaza & Olentangy Sq.	279
4142		1815383.0	752001.0	Bethel Rd.	Kenny Rd.	280
4144		1803120.0	767077.0	Sawmill Rd.	Snouffer Rd.	444
4145		1797044.0	753632.0	Dublin Rd. & Frantz Rd.	Hayden Run Rd.	340
4155		1802832.0	760064.0	Cranston Dr.	Sawmill Rd.	445
4164		1807572.0	752390.0	Bethel Rd.	Dierker Rd.	282
4165		1802978.0	763431.0	Martin Rd	Sawmill Rd.	446
4166		1802627.0	755809.0	Sawmill Rd.	West Case & Abbey Church Rd.	425
4167		1809847.0	750435.0	Francisco Rd	Reed Rd.	286
4169		1803074.0	765240.0	Banker Dr. & Sawmill Place Blvd.	Sawmill Rd.	448
4170		1803108.0	766102.0	Federated Blvd.	Sawmill Rd.	449
4171		1802921.0	762184.0	Meijer	Sawmill Rd.	450
4176		1803287.0	770009.0	Billingsley Rd.	Sawmill Rd.	432
4177		1803317.0	770594.0	Bright Rd. & Sawbury Blvd.	Sawmill Rd.	433
4178		1803372.0	771946.0	Hard Rd.	Sawmill Rd.	434
4179		1803441.0	773500.0	Sawmill Rd.	Summer Rd.	436
4180		1803497.0	774345.0	Saltergate Dr.	Sawmill Rd.	437
4185		1802513.0	753764.0	Resler Dr.	Sawmill Rd.	427
4186		1803341.0	752601.0	Bethel Rd.	Carriage Place Shopping Center	428
4187		1804326.0	752557.0	Bethel Rd.	Pickforde Dr.	430
4188		1794207.0	757266.0	Frantz Rd.	Tuttle Crossing Blvd.	464
4190		1804080.0	763552.0	Dublin Granville Rd.	Martin Rd.	451
4192		1816327.0	751954.0	Bethel Rd.	Jasonway Ave.	283
4197		1802834.0	761230.0	Krier Dr. & Tuller Pkwy.	Sawmill Rd.	452
4200		1789359.0	756443.0	Britton Pkwy.	Tuttle Crossing Blvd.	459
4201		1790239.0	756589.0	I-270 SB Ramps	Tuttle Crossing Blvd.	460
4202		1791000.0	756714.0	I-270 NB Ramps	Tuttle Crossing Blvd.	461
4203		1791996.0	756880.0	Blazer Pkwy.	Tuttle Crossing Blvd.	462
4206		1805707.0	765053.0	Bent Tree Blvd.	Federated Blvd.	456

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CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
4209		1803597.0	776945.0	Sawmill Rd.	Summit View Rd. West	438
4211		1794770.0	754961.0	Frantz Rd	Shannon Heights Blvd.	341
4213		1796732.0	738665.0	Fishinger Blvd.	Mill Run Dr.	346
4214		1795845.0	739005.0	Fishinger Blvd.	Spring Mills Dr.	347
4216		1806426.0	750316.0	Arlington Center Blvd.	Henderson Rd.	404
4218		1804731.0	763087.0	Dublin Granville Rd.	Sawmill Place Blvd.	454
4220		1803648.0	767056.0	Caine Rd.	Snouffer Rd.	455
4221		1796843.0	754054.0	Dublin Rd.	Frantz Rd.	342
4222		1792649.0	757086.0	Bradenton Ave.	Tuttle Crossing Blvd.	463
4228		1793597.0	752738.0	Camden Place Dr.	Hayden Run Rd.	343
4229		1805088.0	764596.0	Bent Tree Blvd.	Sawmill Place Blvd.	457
4231		1803621.0	777448.0	Sawmill Rd.	Summit View Rd. East	439
4235		1812911.0	755160.0	Godown Rd.	Pepperell Dr. & West Case Rd.	284
4238		1802400.0	752200.0	Giant Eagle	Sawmill Rd.	431
4246		1827060.0	718460.0	Goodale St.	Vine St. & Michigan Ave.	190
4251		1803691.0	779007.0	Chapman Elementary School	Sawmill Rd.	440
4253	UA14	1802395.0	751159.0	Henderson Rd.	Sawmill Rd.	426
4254		1822044.0	721310.0	Olentangy River Rd.	Time Warner Dr. & Gowdy Field Dr.	198
4255		1803199.0	768682.0	I-270 (SPUI)	Sawmill Rd.	442
4258		1792675.0	752454.0	Edwards Farm Rd.	Hayden Run Rd.	344
Bth315nb	ODOT	1819889.0	751862.0	Bethel Rd.	SR-315 NB Ramps	285
GEOIND		1797015.0	708718.0	Georgesville Rd.	Industrial Mile Rd.	369
N005		1828247.0	751327.0	Indianola Ave.	Morse Rd.	205
N006		1828948.0	752356.0	I-71 SB Off Ramp	Sinclair Rd.	209
N007		1828873.0	751288.0	Morse Rd.	Sinclair Rd.	206
N008		1829369.0	751270.0	I-71 NB Ramps	Morse Rd.	207
N009		1830646.0	751192.0	Morse Rd.	Sandy Lane Rd.	214
N010		1832101.0	751101.0	Maize Rd.	Morse Rd.	215
N011		1833380.0	750997.0	Almont Rd.	Morse Rd.	217
N012		1834876.0	750873.0	Karl Rd.	Morse Rd.	218
N013		1835767.0	750812.0	Morse Rd.	Northland Ridge Dr.	219
N014		1836688.0	750773.0	Morse Rd.	Tamarack Blvd.	220
N015		1837633.0	750736.0	Heaton Rd.	Morse Rd.	221
N016		1839232.0	750643.0	Morse Rd.	Northtowne Blvd. & Walford St.	223
N017		1840391.0	750563.0	Malin Dr.	Morse Rd.	224
N018		1829070.0	754485.0	Freeway Dr. North	Sinclair Rd.	211
N019		1829148.0	756058.0	Lincoln Ave.	Sinclair Rd.	212
N020		1834990.0	752579.0	Karl Rd.	Red Robin Rd.	227
N021		1835067.0	753697.0	Karl Rd.	Norma Rd.	229
N022		1835155.0	754979.0	Karl Rd.	Penworth Dr.	230
N023		1835278.0	756840.0	Karl Rd.	Sandelwood Pl.	231
N024		1835471.0	759961.0	Karl Rd.	Granville Center Dr. & Karl Ct.	232
N025		1842153.0	757709.0	Cleveland Ave.	Teakwood Dr.	236
N026		1829257.0	760896.0	Dublin Granville Rd.	Huntley Rd. & Sinclair Rd.	213
N027		1830598.0	760819.0	Busch Blvd.	Dublin Granville Rd.	241
N028		1831699.0	760758.0	Dublin Granville Rd.	I-71 SB Ramps	242
N029		1832612.0	760705.0	Dublin Granville Rd.	I-71 NB Ramps	243
N030		1833886.0	760655.0	Ambleside Dr. & Satinwood Dr.	Dublin Granville Rd.	244
N031		1835505.0	760551.0	Dublin Granville Rd.	Karl Rd.	233
N032		1837104.0	760462.0	Dublin Granville Rd.	Sharon Woods Blvd. & Tamarack Blvd.	245
N033		1838504.0	760378.0	Beechcroft Rd.	Dublin Granville Rd.	247
N034		1839705.0	760292.0	Dublin Granville Rd.	Maple Canyon Ave.	248
N035		1840733.0	760140.0	Dublin Granville Rd.	Parkville St. & Spring Run Dr.	249

INT #	Alt Int #	X-Coord	Y-Coord	Street 1	Street 2	SHEET #
N036		1842286.0	759737.0	Cleveland Ave.	Dublin Granville Rd.	250
N037		1846181.0	758625.0	Dublin Granville Rd.	Ponderosa Dr.	251
N038		1830648.0	761619.0	Busch Blvd.	Shapter Ave.	253
N039		1843849.0	759327.0	Dublin Granville Rd.	Forest Hills Blvd.	254
N040		1841695.0	750461.0	Cleveland Ave.	Morse Rd.	225
N041		1841865.0	753079.0	Cleveland Ave.	Northwold Rd. & Taymouth Rd.	237
N042		1830482.0	765254.0	Busch Blvd.	Kingsmill Pkwy.	255
N043		1830519.0	766029.0	Busch Blvd.	Schrock Rd.	256
N044		1831888.0	766404.0	Doubletree Ave.	Schrock Rd.	257
N045		1834685.0	767206.0	Ambleside Dr.	Schrock Rd.	259
N046		1830059.0	751225.0	Evanswood Dr.	Morse Rd.	208
N047		1835747.0	767151.0	Karl Rd.	Schrock Rd.	260
N048		1838944.0	767832.0	Schrock Rd.	Sharon Woods Blvd.	261
N049		1842861.0	769056.0	Cleveland Ave.	Schrock Rd.	262
N050		1842645.0	765390.0	Cleveland Ave.	Community Park Dr.	263
N051		1842609.0	764889.0	Cleveland Ave.	Corporate Exchange Dr.	265
N052		1842478.0	762841.0	Blendon Woods Dr.& Laurelwood Dr.	Cleveland Ave.	266
N053		1842357.0	760949.0	Cleveland Ave.	Columbus Square Dr. & Fuji Dr.	267
N054		1830404.0	763805.0	Atlantic Ave.	Busch Blvd.	268
N055		1842210.0	758590.0	Cleveland Ave.	Meijer & Northland Plaza	270
N056		1842784.0	767807.0	Cleveland Ave.	I-270 WB Off Ramps	271
N057		1842107.0	768906.0	Schrock Rd.	Schrock Hill Ct.	272
N058		1835367.0	758157.0	Karl Rd.	Karl Rd. Library	235
N059		1837117.0	767478.0	Schrock Rd.	Skywae Dr.	273
N060		1841913.0	753823.0	Bretton Woods & Edmonton Rd.	Cleveland Ave.	238
N061		1841993.0	755127.0	Cleveland Ave.	Wallcrest Blvd.	239
N062		1841638.0	749603.0	Cleveland Ave.	Huntington Bank Dr.	226
sig4050		1881961.8	744500.0	Clark State Rd	Reynoldsburg-New Albany Rd	332
sig4055	6912	1840219.0	745108.0	Cleveland Ave.	Cooke Rd. & Pegg Rd.	290
sig4060	6909	1838709.0	741571.0	Cleveland Ave.	Huy Rd.	291
sig4065	6910	1839001.0	742413.0	Cleveland Ave.	Innis Rd	292
sig4070	6911	1839525.0	743982.0	Cleveland Ave.	Elmore Ave	294
sig4100		1799706.2	739363.9	Dublin Rd.	Fishinger Rd.	337
sig4105		1799606.9	742204.5	Dublin Rd.	Hilliard-Cemetery Rd.	338
sig4140	6902	1797115.0	709579.0	Georgesville Rd.	Lincoln Park Ct.	365
sig4145	6904	1797270.0	710794.0	Georgesville Rd.	Shopper's Ln. North	368
sig4146	6903	1797225.5	710434.1	Georgesville Rd.	Shopper's Ln. South	366
sig4180		1880305.2	735690.0	Havens Corners Rd.	Reynoldsburg New-Albany Rd.	325
sig4360		1840724.6	745806.1	Cleveland Ave.	CTFD	295
sig4720		1797678.0	739064.3	Fishinger Rd.	Smiley Rd.	348
sig4790		1874218.0	720363.0	McNaughten Rd.	Sister Nancy Ganse Ln. & Stornoway Dr.	321
sig4795		1887371.6	735597.6	Havens Corners Rd.	Waggoner Rd.	326
sig4815		1874746.9	729377.7	Taylor Rd.	Taylor Station Rd.	327
sig4820		1875077.8	734685.0	Havens Corners Rd.	Taylor Station Rd.	328
sig4840		1887177.0	732612.0	Jefferson Run & Royal Elm Dr.	Waggoner Rd.	333
sig4845		1880619.0	725886.0	Blacklick Ridge Blvd.	Reynoldsburg-New Albany Rd.	329
sig4855		1886324.7	719104.3	Rodebaugh Rd.	Waggoner Rd.	331
sig4875		1881556.1	728742.0	Reynoldsburg-New Albany Rd	Taylor Rd	334
sig4890		1886597.1	721040.1	Waggoner Rd	Waggoner Rd School	335

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2762 DR. E

PID NUMBER 13034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

INTERSECTION INDEX TABLE 3 OF 3

FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
86	1	1093+58, 10' RT	TELECOMMUNICATIONS	748.0			
90	1	231+23, 29' LT	LIGHTING CONDUIT				
90	2	14+36, 36' LT	TRAFFIC CONDUIT	772.4			
90	3	14+38, 20' LT	STORM DRAIN	UND	775.3 FV	772.3	
90	4	14+38, 19' LT	TELECOMMUNICATIONS				
116	1	1078+74, 4' LT	TELECOMMUNICATIONS				
116	2	1078+63, 4' LT	LIGHTING CONDUIT				
120	1	1030+12, 25' RT	TELECOMMUNICATIONS				
120	2	1030+25, 25' RT	10" GAS	776.5 FV	779.0 FV	776	-0.5
120	3	1030+40, 25' RT	ELECTRIC				
120	4	1030+48, 25' RT	TRAFFIC CONDUIT				
121	1	998+09, 04' RT	TELECOMMUNICATIONS	761.0			
121	2	998+09, 11' RT	WATER	762.2 FV	765.0 FV	762.0	-0.2
121	3	998+10, 15' RT	TELECOMMUNICATIONS				
121	4	999+58, 19' RT	LIGHTING CONDUIT	763.9			
121	5	999+60, 19' RT	TELECOMMUNICATIONS	760.1			
121	6	999+62, 19' RT	20" COMBO	1.2 BG	765.4 FV	762.4	
133	1	12+98, 20' RT	LIGHTING CONDUIT	757.1			
133	2	13+05, 20' RT	TRAFFIC CONDUIT				
141	1	1066+58, 20' RT	TRAFFIC CONDUIT				
141	2	1066+58, 11' RT	TELECOMMUNICATIONS				
141	3	1066+58, 1' RT	60" SANITARY	9.6 BG	755.6 FV	752.6	
156	1	1054+97, 31' RT	72" STORM DRAIN	21.6 BG	754.8 FV	751.8	
156	2	1055+06, 25' RT	TELECOMMUNICATIONS	751.0			
156	3	1055+34, 23' RT	WATER	750.0 FV	754.7 FV	751.7	1.7
156	4	1055+42, 22' RT	TELECOMMUNICATIONS	753.2			
156	5	1055+46, 22' RT	LIGHTING CONDUIT	754.2			
157	1	968+71, 13' LT	15" STORM DRAIN	754.4 FV	758.4 FG	755.4	1.0
158	1	976+84, 20' LT	TRAFFIC CONDUIT				
158	2	976+84, 16' LT	12" WATER	4.0 BG	764.0 FV	761	
161	1	1010+54, 1' LT	24" COMBO	21.6 BG	749.5 P	746.5	
161	2	1010+53, 1' RT	ELECTRIC				
161	3	1010+48, 6' RT	30" STORM DRAIN	738.8 S	749.5 P	746.5	7.7
161	4	1010+44, 11' RT	ELECTRIC				
161	5	1010+43, 12' RT	LIGHTING CONDUIT				
163	1	957+82, 1' RT	LIGHTING CONDUIT				
163	2	958+04, 1' RT	ELECTRIC	752.3			
163	3	958+06, 1' RT	WATER	752.5 FV	757.4 FV	754.4	1.9
163	4	958+14, 01' RT	STORM DRAIN	755.4 FV	757.3 FV	754.3	-1.1
163	5	958+22, 01' RT	STORM DRAIN	755.0 FV	757.3 FV	754.3	-0.7
163	6	958+29, 1' RT	ELECTRIC	754.2			
163	7	958+36, 1' RT	TRAFFIC CONDUIT				
163	8	958+36, 1' RT	ELECTRIC				
209	1	270+77, 74' RT	30" STORM DRAIN	882.1 FV	887.1 FV	884.1	2.0
209	2	270+71, 151' RT	STORM DRAIN	882.3 FV	888.5 FV	885.5	3.2
209	3	270+68, 151' RT	STORM DRAIN	882.3 FV	888.5 FV	885.5	3.2
209	4	270+71, 166' RT	30" STORM DRAIN	878.0 FV	888.8 FV	885.8	7.8
209	5	270+67, 176' RT	30" STORM DRAIN	878.0 FV	888.8 FV	885.8	7.8
225	1	181+09, 68' RT	15" STORM DRAIN	876.2 S	878.0 FG	875	-1.2
263	1	282+50, 74'LT	36" WATER	866.2 S	873.5 P	870.5	4.3
263	2	283+24, 09' RT	12" STORM DRAIN	869.9 S	872.1 FG	869.1	-0.8

FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
271	2	304+99, 42' RT	42" SANITARY	24.0 BG	856.3 FG	853.3	
271	3	307+07, 95' RT	15" STORM DRAIN	846.7 C	853.6 FG	850.6	3.9
275	1	176+36, 64' LT	12" WATER	765.9 S	771.5 P	768.5	2.6
275	2	176+54, 57' LT	LIGHTING CONDUIT				
285	2	192+82, 127' LT	12" WATER	734.5 S	743.2 FV	740.2	5.7
285	3	192+88, 101' LT	TRAFFIC CONDUIT				
285	4	194+03, 44' RT	LIGHTING CONDUIT				
297	1	148+90, 58' RT	12" STORM DRAIN	UND	723.0 FG	720	
301	2	123+30, 35' LT	12" STORM DRAIN	3.0 BG	721.1 FG	718.1	
301	3	123+40, 37' LT	TELECOMMUNICATIONS				
305	2	169+18, 78' RT	GAS	833.5 FV	834.5 FV	831.5	-2.0
305	3	169+40, 78' RT	30" STORM DRAIN	832.0 FV	836.4 FG	833.4	1.4
305	4	169+66, 78' RT	60" STORM DRAIN	832.2 FV	836.3 FG	833.3	1.1
305	5	169+99, 81' RT	ELECTRIC				
337	20	101+07, 26' RT	12" STORM DRAIN	830.0 C	832.6 FV	829.6	-0.4
337	21	101+27, 09' LT	12" WATER	818.6 S	832.3 FV	829.3	10.7
337	22	101+35, 36' LT	ELECTRIC				
337	23	101+65, 64' LT	GAS				
347	1	36+17, 49' RT	TRAFFIC CONDUIT				
348	1	81+13, 45' RT	24" STORM DRAIN	841.4 S	854.0 FV	851	9.6
348	2	81+48, 40' RT	24" SANITARY	834.4 S	852.3 FV	849.3	14.9
348	3	81+69, 28' RT	GAS				
348	4	81+79, 26' RT	WATER	841.2 S	852.8 FV	849.8	8.6
348	5	82+06, 25' RT	TELECOMMUNICATIONS				
351	1	55+72, 100' RT	LIGHTING CONDUIT				
351	2	55+68, 66' RT	TRAFFIC CONDUIT				
351	3	56+43, 133' RT	LIGHTING CONDUIT				
351	4	56+59, 145' RT	LIGHTING CONDUIT				
352	1	44+62, 54' LT	LIGHTING CONDUIT				
352	2	44+77, 54' LT	LIGHTING CONDUIT				
352	3	45+44, 43' LT	LIGHTING CONDUIT				
352	4	45+44, 41' RT	LIGHTING CONDUIT				
354	11	87+49, 2' RT	24" WATER	840.4 S	841.6 FV	838.6	-1.8
354	12	87+59, 47' RT	TELECOMMUNICATIONS	799.6			
354	13	87+60, 58' RT	TELECOMMUNICATIONS				
354	14	87+59, 62' RT	TELECOMMUNICATIONS				
354	15	87+58, 65' RT	TELECOMMUNICATIONS				
356	5	63+40, 65' RT	GAS				
356	6	63+95, 67' RT	8" WATER	4.0 BG	866.0 FG	863	
357	4	74+01, 31' LT	24" WATER	846.3 S	852.9 FV	849.9	3.6
357	5	74+01, 40' LT	LIGHTING CONDUIT				
357	6	75+39, 39' LT	12" WATER	847.8 S	853.6 FV	850.6	2.8
357	7	76+01, 35' LT	GAS	850.2 FV	852.8 FV	849.8	-0.4
357	8	76+07, 46' LT	TRAFFIC CONDUIT				
389	2	211+37, 44' RT	8" WATER	4.0 BG	773.8 FG	770.8	
389	3	211+90, 44' RT	LIGHTING CONDUIT				
390	1	198+69, 50' RT	15" STORM DRAIN	790.9 S	794.0 FG	791	0.1
391	1	142+34, 53' RT	15" STORM DRAIN	878.9 S	883.7 FG	880.7	1.8
391	2	142+94, 53' RT	8" WATER	875.1 S	883.6 FG	880.6	5.5
393	1	227+80, 61' LT	LIGHTING CONDUIT				
397	4	155+42, 55' RT	8" WATER	4.0 BG	878.0 FG	875	

FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
410	1	314+68, 66' RT	TELECOMMUNICATIONS				
410	2	314+68, 84' RT	TELECOMMUNICATIONS				
421	1	225+05, 81' LT	(FO) FIBER OPTICS				
421	2	225+00, 84' LT	TELECOMMUNICATIONS				
422	1	156+11, 67' RT	27" STORM DRAIN	845.5 S	849.2 FV	847.3	1.8
442	2	1168+38, 196' RT	LIGHTING CONDUIT				
460	2	112+44, 66' LT	ELECTRIC				
460	3	112+48, 94' LT	ELECTRIC				
460	4	112+57, 204' LT	ELECTRIC				
460	5	112+40, 190' LT	20" WATER	891.7 S	904.0 FG	901	9.3
460	6	112+49, 228' LT	LIGHTING CONDUIT				
464	1	152+90, 69' RT	TRAFFIC CONDUIT				
473	1	97+41, 28' LT	12" WATER	5.0 BG	735.7 FG	732.7	
473	2	102+54, 18' LT	WATER	728.9 S	734.0 FG	731	2.1
473	3	106+34, 31' LT	12" STORM DRAIN	UND	732.0 FG	729	
473	4	106+52, 32' LT	STORM DRAIN	UND	732.0 FG	729	
473	5	107+76, 31' LT	STORM DRAIN	723.9 S	731.1 FG	728.1	4.2
473	6	107+87, 30' LT	WATER	UND	730.7 FG	727.7	
473	7	108+03, 30' LT	WATER	710.6 S	730.3 FG	727.3	16.7
473	8	109+13, 28' LT	WATER	721.1 S	728.7 FG	725.7	4.6
473	9	109+51, 28' LT	10" STORM DRAIN	723.4 S	728.0 FG	725	1.6
474	1	119+79, 32' LT	15" STORM DRAIN	3.0 BG	724.3 FG	721.3	
474	2	123+30, 35' LT	12" STORM DRAIN	3.0 BG	721.1 FG	718.1	
474	3	123+40, 37' LT	TELECOMMUNICATIONS				
474	4	134+20, 38' LT	18" STORM DRAIN	716.2 FV	718.0 FG	715	-1.2
474	5	134+23, 48' LT	TELECOMMUNICATIONS				
474	6	134+29, 59' LT	POWER				
474	7	134+60, 131' LT	WATER	704.5 S	714.0 FG	711	6.5
474	8	134+75, 151' LT	WATER	705.0 S	714.0 FG	711	6
474	9	135+09, 189' LT	LIGHTING CONDUIT				
475	1	148+90, 58' RT	12" STORM DRAIN	UND	723.0 FG	720	
479	1	12+98, 20' RT	LIGHTING CONDUIT	757.1			
479	2	13+05, 20' RT	TRAFFIC CONDUIT				
485	1	1010+54, 1' LT	24" COMBO	21.6 BG	749.5 P	746.5	
485	2	1010+53, 1' RT	ELECTRIC				
485	3	1010+48, 6' RT	30" STORM DRAIN	738.8 S	749.5 P	746.5	7.7
485	4	1010+44, 11' RT	ELECTRIC				
485	5	1010+43, 12' RT	LIGHTING CONDUIT				
509	1	976+84, 16' LT	12" WATER	760.6 FV	764.0 FV	761	0.4
512	1	231+23, 29' LT	LIGHTING CONDUIT				
512	2	14+36, 36' LT	TRAFFIC CONDUIT	772.4			
512	3	14+38, 20' LT	STORM DRAIN	UND	775.3 FV	772.3	
512	4	14+38, 19' LT	TELECOMMUNICATIONS				
520	1	1304+35, 479' LT	30" STORM DRAIN	882.1 FV	887.1 FV	884.1	2.0
520	2	1304+59, 408' LT	STORM DRAIN	882.3 FV	888.5 FV	885.5	3.2
520	3	1304+56, 407' LT	STORM DRAIN	882.3 FV	888.5 FV	885.5	3.2
520	4	1304+64, 395' LT	30" STORM DRAIN	878.0 FV	888.8 FV	885.8	7.8
520	5	1304+66, 384' LT	30" STORM DRAIN	878.0 FV	888.8 FV	885.8	7.8
520	6	1305+77, 171' LT	10" SANITARY	4.5 BG	889.9 FG	886.9	
520	7	1305+86, 171' LT	10" SANITARY	4.5 BG	889.4 FG	886.4	
520	8	1306+04, 151' LT	TRAFFIC CONDUIT				

P = SURFACE ELEVATION DETERMINED BY PLAN
FG = SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
CG = SURFACE ELEVATIONS DETERMINED BY CITY OF COLUMBUS GIS
FV = FIELD VERIFIED ELEVATION
BG = BELOW GRADE
S = ELEVATION SCALED FROM PLANS
C = ELEVATION CALCULATED USING INVERT
UND = ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS OR FIELD INVESTIGATION.

*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"–48" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

UTILITY CROSSING INDEX 1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
520	9	1306+07, 155' LT	TRAFFIC CONDUIT				
520	10	1306+57, 122' LT	STORM DRAIN	882.0 FV	890.5 FG	887.5	5.5
520	11	1306+63, 124' LT	STORM DRAIN	882.1 FV	890.6 FG	887.6	5.5
520	12	1308+22, 92' LT	STORM DRAIN	UND	892.4 FG	889.4	
520	13	1308+22, 88' LT	STORM DRAIN	UND	893.1 FG	890.1	
520	14	1309+94, 87' LT	LIGHTING CONDUIT				
520	15	1310+41, 84' LT	LIGHTING CONDUIT				
520	16	1311+98, 84' LT	STORM DRAIN	885.2 S	893.7 FV	890.7	5.5
520	17	1312+55, 81' LT	STORM DRAIN	886.5 S	894.2 FV	891.2	4.7
520	18	1322+70, 74' LT	36" SANITARY	26.5 BG	899.4 FV	896.4	
527	1	1040+85, 131' LT	LIGHTING CONDUIT				
535	1	270+77, 74' RT	30" STORM DRAIN	UND	887.1 FV	884.1	
543	1	181+09, 68' RT	15" STORM DRAIN	876.2 S	878.0 FG	875	-1.2
545	1	225+05, 81' LT	(FO) FIBER OPTICS				
545	2	225+00, 84' LT	TELECOMMUNICATIONS				
546	1	275+69, 76' LT	8" WATER	4.0 BG	836.0 FG	833	
548	1	314+68, 66' RT	TELECOMMUNICATIONS				
548	2	314+68, 84' RT	TELECOMMUNICATIONS				
549	1	1705+76, 578' RT	LIGHTING CONDUIT				
549	2	1706+16, 556' RT	LIGHTING CONDUIT				
549	3	1706+26, 549' RT	POWER				
549	4	1707+07, 495' RT	LIGHTING CONDUIT				
549	5	1708+44, 399' RT	LIGHTING CONDUIT				
549	6	1709+38, 331' RT	27" STORM DRAIN	849.9 S	854.3 FG	851.3	1.4
549	7	1711+25, 207' RT	LIGHTING CONDUIT				
566	1	304+20, 61' RT	156" STORM DRAIN	829.1 S	856.4 FG	853.4	24.3
566	2	304+99, 42' RT	42" SANITARY	24.0 BG	856.3 FG	853.3	
566	3	307+07, 95' RT	15" STORM DRAIN	846.7 C	853.6 FG	850.6	3.9
570	1	1448+08, 665' LT	42" SANITARY	42 BG	849.2 FV	846.2	
570	2	1450+49, 603' LT	156" STORM DRAIN	825.2 S	844.9 FV	841.9	16.7
570	3	1451+80, 505' LT	15" STORM DRAIN	828.9 C	841.2 FV	838.2	9.3
570	4	1453+42, 355' LT	LIGHTING CONDUIT				
570	5	1454+15, 289' LT	LIGHTING CONDUIT				
570	6	1455+13, 228' LT	LIGHTING CONDUIT				
570	7	1457+38, 153' LT	LIGHTING CONDUIT				
570	8	1461+69, 109' LT	GAS				
599	1	282+50, 74'LT	36" WATER	866.4 S	873.5 P	870.5	4.1
599	2	283+24, 09' RT	12" STORM DRAIN	869.9 S	872.1 FG	869.1	-0.8
603	1	1257+28, 892' RT	18" SANITARY	892.8 S	896.5 FG	893.5	0.7
603	2	1257+28, 899' RT	30" WATER	889.0 S	896.6 FG	893.6	4.6
604	1	1976+41, 113' RT	LIGHTING CONDUIT				
605	1	149+42, 116' RT	LIGHTING CONDUIT				
605	2	149+54, 94' LT	TELECOMMUNICATIONS				
605	3	154+36, 59' RT	LIGHTING CONDUIT				
606	1	164+94, 76' RT	8" WATER	821.6 S	830.4 FG	827.4	5.8
606	2	169+18, 78' RT	GAS	833.5 FV	834.5 FV	831.5	-2.0
606	3	169+40, 78' RT	30" STORM DRAIN	832.0 FV	836.4 FG	833.4	1.4
606	4	169+66, 78' RT	60" STORM DRAIN	832.2 FV	836.3 FG	833.3	1.1
606	5	169+99, 81' RT	ELECTRIC				
620	1	49+68, 51' RT	30" STORM DRAIN	UND	920.2	917.2	
645	1	44+62, 54' LT	LIGHTING CONDUIT				

FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
645	2	44+77, 54' LT	LIGHTING CONDUIT				
645	3	45+44, 43' LT	LIGHTING CONDUIT				
645	4	45+44, 41' RT	LIGHTING CONDUIT				
645	5	53+87, 176' RT	LIGHTING CONDUIT				
645	6	50+46, 117' LT	24" WATER	869.6 S	877.5 FG	874.5	4.9
646	1	55+72, 100' RT	LIGHTING CONDUIT				
646	2	55+68, 66' RT	TRAFFIC CONDUIT				
646	3	56+43, 133' RT	LIGHTING CONDUIT				
646	4	56+59, 145' RT	LIGHTING CONDUIT				
646	5	63+40, 65' RT	GAS				
646	6	63+95, 67' RT	8" WATER	4.0 BG	866.0 FG	863	
647	1	69+08, 40' RT	GAS				
647	2	72+56, 33' RT	84" STORM	845.2 C	848.6 FG	845.6	0.4
647	3	73+34, 33' RT	8" SEWER	834.7 S	849.0 FG	846	11.3
647	4	74+01, 31' LT	24" WATER	846.3 S	852.9 FV	849.9	3.6
647	5	74+01, 40' LT	LIGHTING CONDUIT				
647	6	75+39, 39' LT	12" WATER	847.8 S	853.6 FV	850.6	2.8
647	7	76+01, 35' LT	GAS				
647	8	76+07, 46' LT	TRAFFIC CONDUIT				
647	9	78+82, 29' LT	GAS				
647	10	79+33, 28' LT	8" WATER	4.0 BG	847.2 FG	844.2	
647	11	87+49, 2' RT	24" WATER	840.4 S	841.6 FV	838.6	-1.8
647	12	87+59, 47' RT	TELECOMMUNICATIONS	799.6			
647	13	87+60, 58' RT	TELECOMMUNICATIONS				
647	14	87+59, 62' RT	TELECOMMUNICATIONS				
647	15	87+58, 65' RT	TELECOMMUNICATIONS				
653	1	55+72, 100' RT	LIGHTING CONDUIT				
653	2	55+68, 66' RT	TRAFFIC CONDUIT				
653	3	56+43, 133' RT	LIGHTING CONDUIT				
653	4	56+59, 145' RT	LIGHTING CONDUIT				
653	5	261+44, 396' RT	LIGHTING CONDUIT				
653	6	263+90, 19' RT	24" WATER	869.6 S	877.5 FG	874.5	4.9
653	7	287+41, 28' RT	12" WATER	861.1 S	870.0 FG	867	5.9
653	8	299+57, 11' RT	24" SANITARY	22.7 BG	856.0 FG	853	
654	1	315+41, 18' RT	42" SANITARY	18.5 BG	850.0 FG	847	
654	2	325+50, 17' RT	16" WATER	852.8 S	860.0 FG	857	4.2
654	3	348+62, 19' RT	21" SANITARY	18.8 BG	883.8 FG	880.8	
661	1	152+90, 69' RT	TRAFFIC CONDUIT				
663	1	780+18, 146' RT	ELECTRIC				
663	2	112+44, 66' LT	ELECTRIC				
663	3	112+48, 94' LT	ELECTRIC				
663	4	112+57, 204' LT	ELECTRIC				
663	5	112+40, 190' LT	20" WATER	891.7 S	904.0 FG	901	9.3
663	6	112+49, 228' LT	LIGHTING CONDUIT				
664	2	112+44, 66' LT	ELECTRIC				
664	3	112+48, 94' LT	ELECTRIC				
677	1	1166+02, 180' RT	TRAFFIC CONDUIT				
677	2	1168+38, 196' RT	LIGHTING CONDUIT				
694	1	176+36, 64' LT	12" WATER	765.9 S	771.5 P	768.5	2.6
694	2	176+54, 57' LT	LIGHTING CONDUIT				
694	3	184+01, 55' LT	36" STORM DRAIN	748.7 S	767.0 P	764	15.3

FINAL SUBMITTAL SHEET #	UTILITY CROSSING ID#	STATION	UTILITY TYPE/SIZE	TOP OF UTILITY ELEVATION	EXISTING GROUND ELEVATION	BOTTOM OF PROPOSED ELEVATION	VERTICAL SEPARTION FEET
695	1	190+55, 85' LT	36" STORM DRAIN	740.9 S	748.3 FG	745.3	4.4
695	2	192+82, 127' LT	12" WATER	734.5 S	743.2 FV	740.2	5.7
695	3	192+88, 101' LT	TRAFFIC CONDUIT				
695	4	194+03, 44' RT	LIGHTING CONDUIT				
706	1	142+34, 53' RT	15" STORM DRAIN	878.9 S	883.7 FG	880.7	1.8
706	2	142+94, 53' RT	8" WATER	875.1 S	883.6 FG	880.6	5.5
706	3	155+04, 53' RT	15" STORM DRAIN	875.1 S	878.6 FG	875.6	0.5
706	4	155+42, 55' RT	8" WATER	4.0 BG	878.0 FG	875	
709	1	198+69, 50' RT	15" STORM DRAIN	791.5 S	794.0 FG	791	-0.5
709	2	211+37, 44' RT	8" WATER	4.0 BG	773.8 FG	770.8	
709	3	211+90, 44' RT	LIGHTING CONDUIT				
711	1	227+80, 61' LT	LIGHTING CONDUIT				
714	1	12+08, 26' RT	TRAFFIC CONDUIT				
714	2	12+08, 30' RT	LIGHTING CONDUIT				
714	3	11+09, 88' RT	LIGHTING CONDUIT				
714	4	10+92, 118' RT	15" SANITARY	870.4 S	874.7 FG	871.7	1.3
717	1	81+13, 45' RT	24" STORM DRAIN	841.4 S	854.0 FV	851	9.6
717	2	81+48, 40' RT	24" SANITARY	834.4 S	852.3 FV	849.3	14.9
717	3	81+69, 28' RT	GAS				
717	4	81+79, 26' RT	WATER	841.2 S	852.8 FV	849.8	8.6
717	5	82+06, 25' RT	TELECOMMUNICATIONS				
717	6	83+60, 21' RT	GAS				
717	7	83+82, 20' RT	12" STORM DRAIN	2.0 BG	846.0 FG	843	
717	8	84+98, 17' RT	18" STORM DRAIN	2.2 BG	846.0 FG	843	
717	9	85+65, 17' RT	GAS				
717	10	86+99, 17' RT	GAS				
717	11	87+23, 17' RT	18" STORM DRAIN	2.3 BG	846.0 FG	843	
717	12	89+61, 17' RT	21" STORM DRAIN	3.7 BG	844.0 FG	841	
717	13	89+67, 17' RT	GAS				
717	14	91+18, 17' RT	GAS				
717	15	92+53, 18' RT	GAS				
717	16	92+58, 18' RT	21" STORM DRAIN	2.3 BG	840.0 FG	837	
717	17	95+60, 19' RT	12" STORM DRAIN	2.1 BG	836.0 FG	833	
717	18	97+80, 19' RT	GAS				
717	19	98+59, 19' RT	24" STORM DRAIN	2.3 BG	832.0 FG	829	
717	20	101+07, 26' RT	12" STORM DRAIN	830.0 C	832.6 FV	829.6	-0.4
717	21	101+27, 09' LT	12" WATER	818.1 S	832.3 FV	829.3	11.2
717	22	101+35, 36' LT	ELECTRIC				
717	23	101+65, 64' LT	GAS				

P = SURFACE ELEVATION DETERMINED BY PLAN
FG = SURFACE ELEVATION DETERMINED BY FRANKLIN COUNTY GIS, ACCURACY OF ±0.5'
CG = SURFACE ELEVATIONS DETERMINED BY CITY OF COLUMBUS GIS
FV = FIELD VERIFIED ELEVATION
BG = BELOW GRADE
S = ELEVATION SCALED FROM PLANS
C = ELEVATION CALCULATED USING INVERT
UND = ELEVATIONS COULD NOT BE DETERMINED FROM RECORD PLANS OR FIELD INVESTIGATION.

*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"–48" TO MEET VERTICAL CLEARANCE REQUIREMENTS BY DIRECTION OF THE CITY OF COLUMBUS REPRESENTATIVE.

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

UTILITY CROSSING INDEX 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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R3-1
S2



R3-2
S3



R3-3
S4



R3-5a
S5



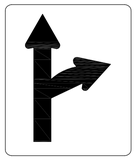
R3-5L
S6



R3-5R
S7



R3-6L
S8



R3-6R
S9



R5-1
S10



R6-2L
S11



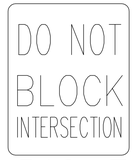
R6-2R
S12



R6-7
S13



R9-3a
S14



R10-7
S15



R10-10L
S16



CM-R023.02
S17



CM-R023.01
S18



R10-12
S19



S20



S21



S22



S23



S24



S25



S26



S27



S28



S29



S30



S31



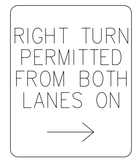
S32



S33



S34



S35



S36



S37



S38



S39



S40



S41

S42

FIBER OPTIC BLANKOUT

S43

DMS ONE PANEL

S44

S45

EXISTING OVERHEAD SIGNAGE SHOWN ON PLAN SHEETS

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

EXISTING OVERHEAD SIGNS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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PLAN SHEET DISCLAIMER

EVERY REASONABLE EFFORT HAS BEEN MADE TO ASSURE THE ACCURACY OF THESE PLANS AND ASSOCIATED DATA WITH THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC UTILITIES FACILITIES. THE CITY OF COLUMBUS, OHIO ASSUMES NO LIABILITY ARISING FROM THE ACCURACY OF THE DEPARTMENT OF PUBLIC UTILITIES FACILITIES DATA IN THESE PLANS OR FOR USE OF THIS DATA FOR PURPOSES NOT RELATED TO THE SUBJECT PROJECT. THIS DISCLAIMER APPLIES TO SHEETS 67–719 OF THIS PLAN.

PRE–CONSTRUCTION CONFERENCE

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

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

PERMITS

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT WITH RED SIGNATURES SHALL BE KEPT ON SITE AT ALL TIMES.

WHEN EXCAVATING WITHIN COLUMBUS CITY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICE, DIVISION OF PLANNING AND OPERATIONS PERMIT OFFICE BY CALLING (614) 645–7497 BETWEEN THE HOURS OF 8:00AM AND 4:00PM MONDAY THROUGH FRIDAY.

UTILITIES

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

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

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

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

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
90 WEST BROAD STREET
COLUMBUS, OHIO 43215
(614) 645–7756 – PHONE
(614) 645–6627 – FAX

CITY OF COLUMBUS
COMMUNICATION DIVISION
220 GREENLAWN AVENUE
COLUMBUS, OHIO 43223
(614) 645–7344 – PHONE, EXT. 125
(614) 645–6588 – FAX

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

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF PLANNING & OPERATIONS
TRAFFIC MAINTENANCE
1820 E 17TH AV.
COLUMBUS, OHIO 43219
(614) 645–7393 – PHONE
(614) 645–5967 – FAX

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

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

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

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

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

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

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

ODOT
DISTRICT 6 MAINTENANCE OF TRAFFIC
400 E. WILLIAMS STREET
DELAWARE, OHIO 43015
(740) 815–8433 – PHONE
MOT ENGINEER – DUANE SOISSON
(740) 815–8162 – PHONE
TRAFFIC ENGINEER – KRAIG SHREWSBERRY
(740) 833–8198 – PHONE

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

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

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

MARTIN E. WHITE
DISTRICT RIGHT OF WAY AGENT
BUCKEYE PIPELINE COMPANY, LP
940 BUCKEYE ROAD
LIMA, OHIO 45802
(419) 223–4015 – PHONE, EXT. 109
(419) 236–7766 – CELL
(419) 224–3519 – FAX
MWHITE@BUCKEYE.COM

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

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

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

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

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

MIKE SUCHARSKI
LEADER FIELD ENGINEERING
COLUMBIA GAS OF OHIO
3350 JOHNNY APPLESEED CT.
COLUMBUS, OHIO 43231
(614) 818–2104 – PHONE
(614) 989–1327 – CELL
MSUCHARSKI@NISOURCE.COM

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

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

TOM ZIOMEK
MANAGER OSPE
AT&T (FKA SBC)
111 NORTH 4TH STREET
COLUMBUS, OHIO 43215
(614) 223–7162 – PHONE
(614) 223–5579 – FAX
(614) 329–2195 – CELL
TZ7315@ATT.COM

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

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

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

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

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

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

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

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

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

BILL MARTIN
OSP ENGINEER
XO COMMUNICATION
FKA NEXTLINK
10 WEST BROAD STREET, SUITE 300
COLUMBUS, OHIO 43215
(614) 416–1703 – PHONE
(614) 416–4464 – FAX
(614) 419–2527 – CELL
WILLIAM.MARTIN@XO.COM

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

AJIT KADAKIA
EXECUTIVE V.P. OF ENGINEERING
SOUTH CENTRAL POWER
P.O. BOX 250
LANCASTER, OHIO 43130
(740) 689–6225 – PHONE
KADAKIA@SCP.UTILITIES.COM

RICHARD CUNICO
MAINTENANCE MANAGER
WINDSTREAM–KDL INC.
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 47715
(618) 648–2420 – PHONE
(812) 760–6602 – CELL
(812) 456–473 – FAX
RICHARD.CUNICO@WINDSTREAM.COM

SEAMUS MCGULLIGAN
MARKETING MANAGER
NE OHIO NATURAL GAS CORP.
P.O. BOX 430
LANCASTER, OHIO 43130–0430
(740) 862–3300 – PHONE
(740) 862–6330 – FAX
(740) 808–6028 – CELL
SMULLIGAN@NEOGAS.COM

FEDERAL PROJECT NUMBER
E036(481)

PID NUMBER
13034

GENERAL NOTES SHEET
1 OF 13

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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2762 DR. E

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SAFETY REQUIREMENTS

THE CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MATERIAL SAFETY DATA SHEETS

THE CONTRACTOR SHALL SUBMIT, FOR INFORMATION ONLY, THE MANUFACTURERS' HAZARDOUS MATERIALS COMMUNICATION INFORMATION FORMS FOR ALL MATERIALS TO BE INCORPORATED INTO THE WORK.

EMERGENCY PROVISIONS

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

NON-RUBBER TIRED VEHICLES

NON-RUBBER-TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS. THE CITY ENGINEER MAY GRANT EXCEPTIONS WHEN SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING, AND ANY DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY OF COLUMBUS' ACCEPTABLE REPRESENTATIVE.

CONFLICTS WITH STREET TREES

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

SANITARY CONVENIENCE FACILITIES

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK. COST SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENTS.

MISCELLANEOUS WORK ITEMS

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

CONTINGENCY QUANITIES

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

DUST CONTROL

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

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

WATERING PERMANENT SEEDED AREAS

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

ITEM 659 – WATER	10 THOUSAND GALLONS

CONSTRUCTION DAMAGE

ALL SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING CONSTRUCTION UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. UNLESS OTHERWISE PROVIDED FOR, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COST OF THIS WORK.

MAINTAINING ACCESS TO PRIVATE PROPERTY

ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. WHERE PROPERTIES ARE ACCESSED BY ONLY ONE DRIVEWAY, PARTIAL WIDTH CONSTRUCTION SHALL BE USED. WITH THE WRITTEN PERMISSION OF THE PROPERTY OWNER, DRIVEWAYS OR LEAD WALKS MAY BE CLOSED. THE PERMISSION LETTERS SHALL BE SUBMITTED TO THE PROJECT ENGINEER BEFORE THE COMMENCEMENT OF THE CLOSURE.

SECURING EXCAVATIONS & TRENCHES FOR NON-WORKING HOURS

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

CLEANUP

THE CONTRACTOR SHALL PERFORM DAILY CLEANUP OF THE WORK SITE. ALL TRASH, INCLUDING CANS, BOTTLES, FOOD SCRAPS, CONTAINERS, AND WRAPPERS SHALL BE PROPERLY DISPOSED OF OFF SITE AND SHALL NOT BE THROWN IN THE CONSTRUCTION AREA.

WORK LIMITS

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

BENCHMARKS AND SURVEY MONUMENTS

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

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

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

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

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

MONUMENTED RIGHT-OF-WAY AND PROPERTY CORNERS

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

LIMITED ACCESS RIGHT OF WAY (LA/ RW)

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

CLEARING AND GRUBBING

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

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

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

CONCRETE WALKS, AS PER PLAN

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

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

C.O.T.A. – SIGNS AND/OR BUS STOPS

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

MANHOLE AND / OR INLET ADJUSTED TO GRADE

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

MAINTAIN DRAINAGE

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

WATER QUALITY PROTECTION

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

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

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

USE OF HYDRANTS

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

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TREE PROTECTION DURING CONSTRUCTION

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

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

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

VALVE BOXES & OTHER SURFACE STRUCTURES

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

COLUMBIA GAS DAMAGE PREVENTION CENTER

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

PAVEMENT CUTTING

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

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

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

DIVISION OF POWER AND WATER (POWER)

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

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

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

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

DIVISION OF POWER AND WATER (WATER) NOTES

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

VALVE OPERATION SHALL BE PER CODE CHAPTER 1113

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

PRIOR TO ANY BORING OPERATION, CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION OF ALL WATER MAINS WITHIN WORK AREA.

DIVISION OF SEWERAGE AND DRAINAGE UTILITIES

CITY OF COLUMBUS LOCATORS WILL ONLY LOCATE AND MARK MAIN LINE SEWERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERALS AND FIELD VERIFYING THE LOCATION OF MAIN SEWER LINES. ANY DAMAGE AND/OR REPAIRS TO THE MAIN SEWER LINES OR SERVICE LATERALS ARE THE RESPONSIBILITY OF THE THE SEWER CONTRACTOR. REPAIRS MUST BE COMPLETED BY A LICENSED SEWER CONTRACTOR UNDER A SEPARATE SEWER PERMIT.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3' HORIZONTAL AND 1' VERTICAL FROM THE OUTSIDE DIAMETER OF ALL SEWER AND WATER LINES.

BRICK SEWERS

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

EXCAVATION OF ROADWAY AND RIGHT-OF-WAY AREAS

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

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

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

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

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

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

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

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

PROJECT INSPECTION, PLAN CHANGES & NOTIFICATION

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

MATERIAL INFORMATION SUBMITTAL

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

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FEDERAL PROJECT NUMBER E036(481)
PID NUMBER 13034

GENERAL NOTES SHEET 3 OF 13

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

ENVIRONMENTAL COMMITMENTS MADE AND RESOURCES TO BE AVOIDED.

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

THE CONTRACTOR SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMP'S) FOR SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION AND POST CONSTRUCTION IN ACCORDANCE WITH ODOT'S CONSTRUCTION AND MATERIALS SPECIFICATION SECTION 107.19 AND SUPPLEMENTAL SPECIFICATION 832.

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

WATERSHED PROTECTION

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

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

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

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

STREAM/WETLAND/WATER COURSE AVOIDANCE

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

INDIANA BAT HABITAT

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

EROSION AND SEDIMENT CONTROL

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

CONNECTION TO EXISTING FIBER OPTIC NETWORKS

COLUMBUS FIBER NET

FOR WORK LOCATIONS INVOLVING THE CONNECTION TO COLUMBUS FIBER NET (CFN) FACILITIES THE CONTRACTOR SHALL COORDINATE WORK WITH CFN AT LEAST TWO WEEKS PRIOR TO START OF WORK. THE CONTRACTOR SHALL REQUEST INSTALLATION INSTRUCTION INCLUDING, BUT NOT LIMITED TO: APPROPRIATE CFN PULL BOX TO CONNECT TO, CONSTRUCTION METHOD AND DEPTH OF ENTRY POINT, AND SPLICE ENCLOSURE AND SLACK STORAGE MOUNTING WITHIN CFN PULL BOX.

A CFN REPRESENTATIVE IS TO BE ON SITE FOR PURPOSES OF INSPECTION AT ALL TIMES WHEN WORK IS OCCURRING AT A CFN FACILITY. ALL COSTS FOR THE CFN REPRESENTATIVE AND INSPECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTACT INFORMATION:

BILL VERHOFF
OPERATIONS MANAGER
COLUMBUS FIBERNET
(614) 351-6265, VOICE
(614) 602-4947, CELL
(614) 850-4419, FAX

CHAD MEDLEY
SPLICING MANAGER
(614) 351-6243, OFFICE
(614) 207-8522, CELL
cmmedley@teamfishel.com
www.teamfishel.com

HYLAND CITYNET FIBER

FOR WORK LOCATIONS INVOLVING THE CONNECTION TO HYLAND CITYNET FIBER (HCNF) FACILITIES THE CONTRACTOR SHALL COORDINATE WORK WITH HCNF AT LEAST TWO WEEKS PRIOR TO START OF WORK. THE CONTRACTOR SHALL REQUEST INSTALLATION INSTRUCTION INCLUDING, BUT NOT LIMITED TO: APPROPRIATE HCNF PULL BOX TO CONNECT TO, CONSTRUCTION METHOD AND DEPTH OF ENTRY POINT, AND SPLICE ENCLOSURE AND SLACK STORAGE MOUNTING WITHIN HCNF PULL BOX. UPON APPROVAL BY HCNF, THE CONTRACTOR SHALL PROVIDE NOTICE TO HCNF 48 HOURS PRIOR TO MANHOLE ENTRY.

A HCNF REPRESENTATIVE IS TO BE ON SITE FOR PURPOSES OF INSPECTION AT ALL TIMES WHEN WORK IS OCCURRING AT A HCNF FACILITY. ALL COSTS FOR THE HCNF REPRESENTATIVE AND INSPECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CITYNET RESERVES THE RIGHT TO REVIEW AND APPROVE ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION. MORE SPECIFICALLY, NEW LATERALS TO BE INSTALLED INTO CITYNET MANHOLES MUST BE PLACED AT THE LOWEST ENTRY HOLE AVAILABLE. IN ADDITION, ANY NEW LATERAL ENTRANCES INTO EXISTING MANHOLES SHALL BE PLACED SO AS TO NOT OBSTRUCT ANY EXISTING CONDUITS OR CABLES.

ALL CABLES ARE TO BE SIDE WALL RACKED WHERE RACKING IS AVAILABLE AND ANY SLACK LOOPS/COILS ARE TO BE STRAPPED AND WALL RACKED AS NOT TO INTERFERE WITH ANY EXISTING OR FUTURE CABLE PLACEMENT OR SPLICING ACTIVITY.

SEE SHEET 757 FOR ADDITIONAL SPLICE ENCLOSURES REQUIRED FOR CONNECTING EXISTING FIBER OPTIC CABLE SEGMENTS.

CONTACT INFORMATION:

CORPORATE HEADQUARTERS
100 CITYNET DRIVE
BRIDGEPORT, WEST VIRGINIA 26330
(800) 903-8906, TOLL-FREE
(304) 848-5400, VOICE
(304) 848-5410, FAX
http://www.citynet.net/

FOR CONSTRUCTION ACTIVITY:

ERIC ALEXANDER
(614) 364-7825

FOR MAINTENANCE ACTIVITY:
TECHNICAL SUPPORT CENTER
(800) 881-2638

ESTIMATED COST OF INSPECTION
TO BE CONSIDERED INCIDENTAL TO ITEM 804 – FIBER OPTIC CABLE, MISC: 24 STRAND CABLE

	NUMBER OF SITES	HOURS PER SITE	TOTAL HOURS	RATE	COST
CITY FIBERNET INSPECTION	3	8	24	$150/hr	$3600
HCNF INSPECTION	13	8	104	$150/hr	$15600
HCNF CORE DRILL FEE	13			$50/ea	$650

CITY OF GAHANNA FIBER

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

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

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

CONTACT INFORMATION:

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

CITY OF HILLIARD

THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE CITY OF HILLIARD BEFORE ANY WORK ALONG OR NEAR CEMETERY ROAD COMMENCES. THE PERMIT IS OBTAINED THROUGH THE ENGINEERING DEPARTMENT AT 3800 MUNICIPAL WAY, HILLIARD, OHIO 43026. THE PERMIT SHALL BE OBTAINED AT LEAST FIVE BUSINESS DAYS BEFORE WORK COMMENCES. THE PERMIT FEE SHALL BE WAIVED FOR WORK RELATED TO THIS PROJECT. THE CONTRACTOR SHALL PROVIDE DETAILS OF THE WORK, A MAINTENANCE OF TRAFFIC PLAN, AND SCHEDULE WHEN THE PERMIT IS OBTAINED. A PERMIT WILL NOT BE ISSUED FOR LONGER THAN 30 CALENDAR DAYS. THE CONTRACTOR SHALL OBTAIN ADDITIONAL PERMITS TO CONTINUE WORK WHEN THE ORIGINAL PERMIT EXPIRES. THE CONTRACTOR SHALL CONTACT THE TRAFFIC MAINTENANCE DEPARTMENT SUPERVISOR AT (614) 334-2355 AND CELL AT (614) 604-4785 TWO WEEKS BEFORE THE BEGINNING OF ANY WORK BEGINS AND CONTINUE COMMUNICATIONS THROUGHOUT THE DURATION OF WORK. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CITY OF HILLIARD REGARDING TIMEFRAMES, HOLIDAYS, AND LOCAL EVENTS.

FRANKLIN COUNTY

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

WORK OCCURING AT RAILROAD CROSSINGS

THE CONTRACTOR MUST SECURE ALL NECESSARY PERMITS AND/OR FORMS REQUIRED TO PERFORM WORK AT RAILROAD CROSSINGS AS SHOWN IN THE PLANS. ANY AND ALL COSTS INCURRED FROM THE RAILROAD INCLUDING, BUT NOT LIMITED TO, RIGHT-OF-WAY ENTRY FEES, APPLICATIONS, AND ON SITE RAILROAD INSPECTION FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 804: FIBER OPTIC CABLE, MISC.: 144 STRAND.

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

GENERAL NOTES SHEET 4 OF 13

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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RED LIGHT CAMERA SITES

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

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

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

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

TRENCH IN ROCK

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

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 750 FT OF TRENCHING WILL BE LOCATED IN ROCK.

JACKING OR DRILLING IN ROCK

JACKING OR DRILLING IN ROCK WILL BE PERFORMED AT THE DIRECTION OF THE ENGINEER. FOR ANY INSTANCE WHERE JACKING OR DRILLING IN ROCK WORK IS PERFORMED, THE COST FOR JACKING OR DRILLING IN ROCK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM 625 CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05 SCH. 80, 3" AND ITEM 625 CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05 SCH. 80, 4"

IT IS ANTICIPATED THAT APPROXIMATELY 2%, OR 200 FT OF JACKING OR DRILLING WILL BE LOCATED IN ROCK.

FULL WIDTH PAVEMENT REPAIR

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

THIS CONDITION APPLIES TO THE FOLLOWING LOCATIONS:

DUBLIN RD	STA 96+80, 118' LT TO STA 105+61, 30' LT
GEORGESVILLE RD	STA 68+77, 51' RT TO STA 74+00, 35' RT
GRANT AVE	STA 998+09, 06' LT TO STA 999+64, 19' RT
FISHINGER RD	STA 81+51, 40' RT TO STA 100+53, 24' RT

SEPARATE BID ITEMS HAVE BEEN PROVIDED IN THE DETAILS OF THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR PAVING ITEMS.

UNDERGROUND FIBER OPTIC CABLE INSTALLATION

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

EXISTING CONDUIT CLEANED	=	130,023 FT	(1)
CONDUIT, 3", 725.05, AS PER PLAN	=	55,383 FT	(2)
CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	=	5,641 FT	(3)
CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN	=	6,947 FT	(4)
CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725, 3", AS PER PLAN	=	6,541 FT	(5)
CONDUIT, MISC:, 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE	=	562 FT	(6)
FIBER OPTICE CABLE, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION	=	SUM (1-6) 205,097 FT	

CONTRACTOR ACCESS TO EXISTING CONTROL CABINET

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

CONTINGENT QUANTITIES

THE PAY ITEM QUANTITIES IN THE FOLLOWING TABLE ARE CARRIED TO THE GENERAL SUMMARY AND ARE TO BE PERFORMED ONLY AT THE DIRECTION OF THE ENGINEER.

ITEM	DESCRIPTION	UNIT	CONTINGENCY TO BE INSTALLED AT THE DIRECTION OF ENGINEER	CONTINGENCY TO BE FURNISHED AND DELIVERED ONLY	TOTAL TO BE CARRIED TO SUMMARY SHEET
202	CURB REMOVED	FT	200		200
202	EXISTING CONDUIT CLEANED, AS PER PLAN	FT	2000		2000
202	WALK REMOVED	SF	100		100
608	8" CONCRETE WALK, AS PER PLAN	SF	300		300
608	CURB RAMP, AS PER PLAN	SF	400		400
609	COMBINATION CURB AND GUTTER, TYPE SPECIAL - 8", AS PER PLAN	FT	300		300
609	CURB, STRAIGHT 18", AS PER PLAN	FT	150		150
622	BARRIER, MISC.: BARRIER REPAIR	FT	100		100
625	CONDUIT, 2", 725.05, AS PER PLAN	FT	500		500
625	CONDUIT, 3", 725.05, AS PER PLAN	FT	500		500
625	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	FT	2500		2500
625	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05, 3", AS PER PLAN	FT	500		500
625	CONDUIT, MISC.: CONDUIT REPAIR	FT	2000		2000
625	PULL BOX, 725.08, 18", AS PER PLAN	EACH	5		5
625	PULL BOX, MISC.: CONCRETE, 24"	EACH	15		15
625	PULL BOX, MISC.: CONCRETE, 32"	EACH	35		35
625	PULL BOX, REMOVED, AS PER PLAN	EACH	15		15
625	TRENCH IN PAVED AREA, AS PER PLAN	FT	300		300
625	TRENCH, 36" DEEP, AS PER PLAN	FT	700		700
630	SIGN, FLAT SHEET	SF	56.25		56.25
632	CONDUIT RISER, 2" DIAMETER	EACH	30		30
632	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	FT	2500		2500
632	STRAIN POLE FOUNDATION	EACH	1		1
632	STRAIN POLE, TYPE TC-81.10, DESIGN 6	EACH	1		1
633	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE	EACH		1	1
633	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	EACH		20	20
633	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	EACH		9	9
633	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	EACH		2	2
633	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	EACH		5	5
633	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FT		500	500
804	FIBER OPTIC CABLE, MISC.: 144 STRAND CABLE	FT		2000	2000
804	FIBER OPTIC CABLE, MISC.: 24 COUNT PRE-TERMINATED PATCH PANEL ASSEMBLY	EACH	1	5	6
804	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FT	1000	500	1500
804	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	EACH		10	10
804	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	EACH		2	2
804	SPLICE ENCLOSURE: OVERHEAD, AS PER PLAN	EACH		4	4
804	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	EACH		4	4
815	SPREAD SPECTRUM RADIO, AS PER PLAN	EACH	8	10	18

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ITEM 614 – MAINTAINING TRAFFIC, LUMP SUM AS PER PLAN

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

TEMPORARY TRAFFIC CONTROL ITEMS

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

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

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

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

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

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

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

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

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

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

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

GENERAL NOTES SHEET 6 OF 13
MAINTENANCE OF TRAFFIC SHEET 1 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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

EXISTING PERMANENT TRAFFIC CONTROL ITEMS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ITEM 614- LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN - 100 HOURS

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

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

ITEM 614 - LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR, AS PER PLAN - 300 HOURS

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

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

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

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

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

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

LANE CLOSURE HOURS FOR WORK ON FREEWAYS (NON INNERBELT)

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

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

GENERAL NOTES SHEET 7 OF 13
MAINTENANCE OF TRAFFIC SHEET 2 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

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INNERBELT NOTE

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

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

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

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

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

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

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

NOTIFICATION OF TRAFFIC RESTRICTIONS ON FREEWAYS

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

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

NOTIFICATION TIME FRAME TABLE

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

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

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

COORDINATION WITH OTHER PROJECTS

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

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

ONGOING PROJECTS DURING PHASE B CONSTRUCTION	
FRA-70-8.93 (PID 77369)	FRA-270-22.85 (PID 81748)
FRA-70-14.48 (PID 77370)	FRA-315-2.40 (PID 24696)
FRA-70-15.25 (PID 94271)	FRONT ST. / MARCONI BLVD. CONVERSION PROJECT
FRA-270-21.67 (PID 81747)	
FRA-270-2.60 (PID 76191)	

LANES OPEN DURING HOLIDAYS

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

CHRISTMAS
NEW YEARS
MEMORIAL DAY
FOURTH OF JULY
LABOR DAY
THANKSGIVING

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

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

CITY OF COLUMBUS NOISE ORDINANCE

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

CITY OF COLUMBUS SPECIAL EVENTS

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

USE OF WEIGHTED CHANNELIZERS

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

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

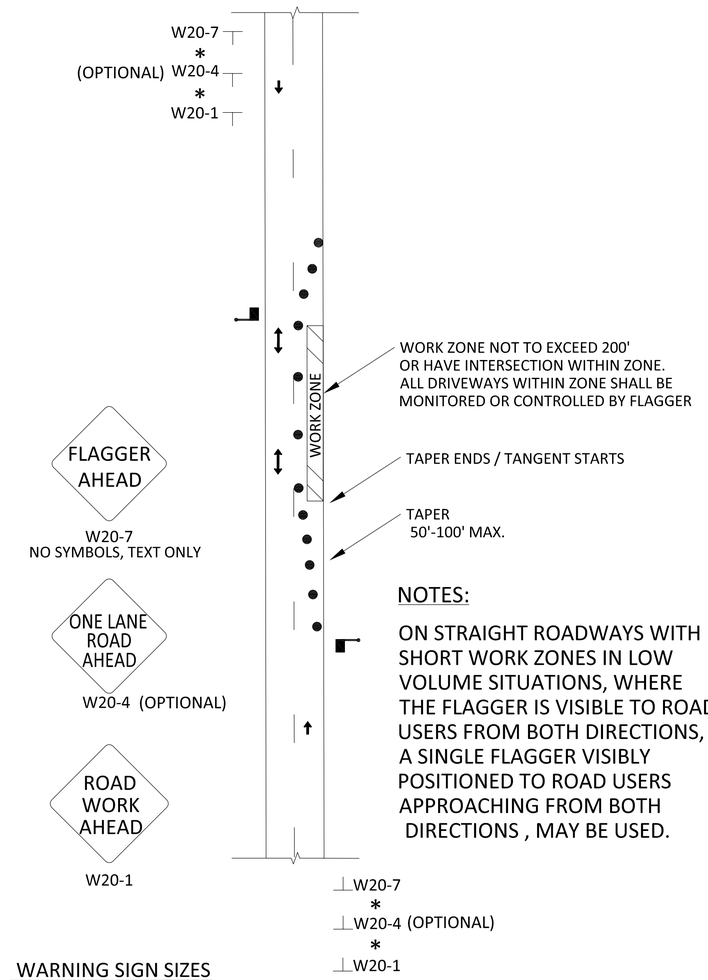
USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATIONS FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING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

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

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

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

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



NOTES:

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

WARNING SIGN SIZES

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

*SIGN SPACING

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

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

GENERAL NOTES SHEET 8 OF 13
MAINTENANCE OF TRAFFIC SHEET 3 OF 5

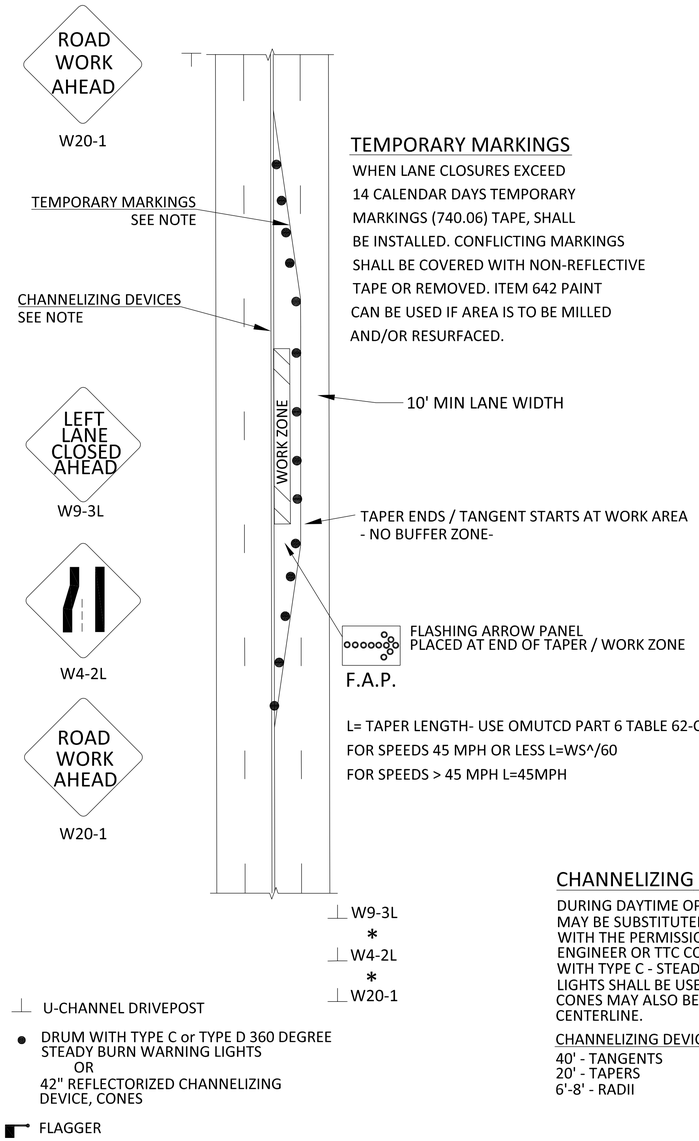
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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2762 DR. E

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CITY OF COLUMBUS DETAIL: TYPICAL LEFT LANE CLOSURE



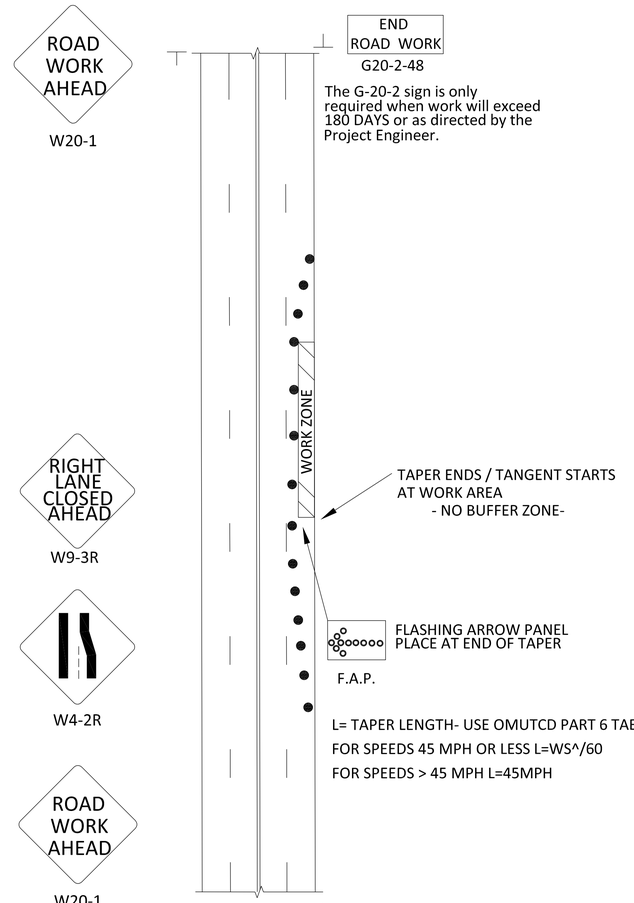
CHANNELIZING DEVICES

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

CHANNELIZING DEVICE SPACING

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

CITY OF COLUMBUS DETAIL: TYPICAL RIGHT LANE CLOSURE



*SIGN SPACING

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

WARNING SIGN SIZES

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

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

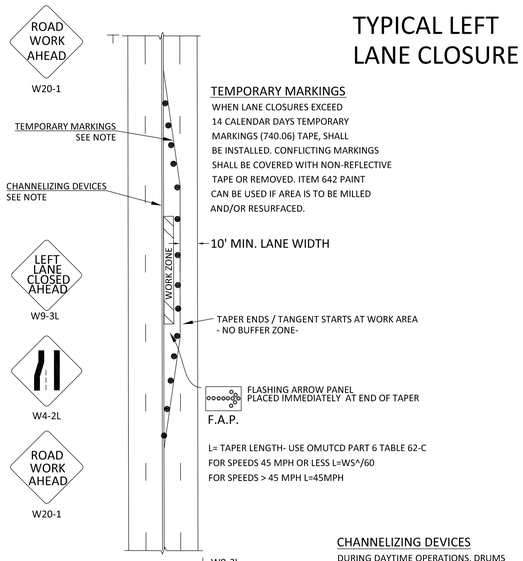
GENERAL NOTES SHEET 9 OF 13
MAINTENANCE OF TRAFFIC SHEET 4 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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TYPICAL LEFT LANE CLOSURE



TEMPORARY MARKINGS

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

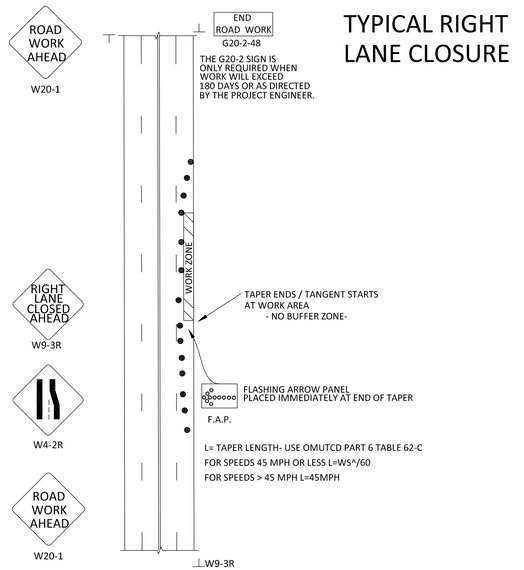
CHANNELIZING DEVICES

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

CHANNELIZING DEVICE SPACING

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

TYPICAL RIGHT LANE CLOSURE



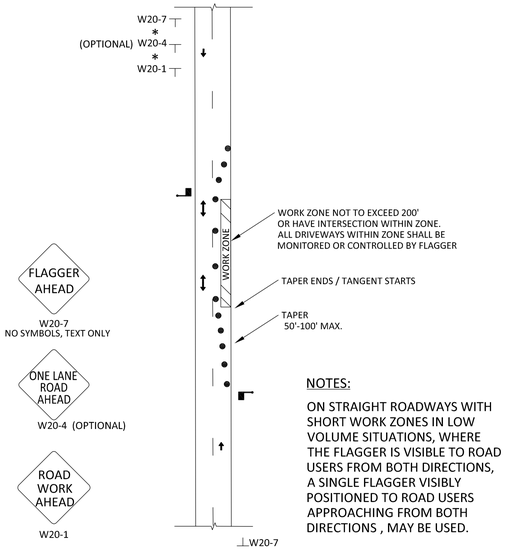
WARNING SIGN SIZES

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

*SIGN SPACING

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

LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS



WARNING SIGN SIZES

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

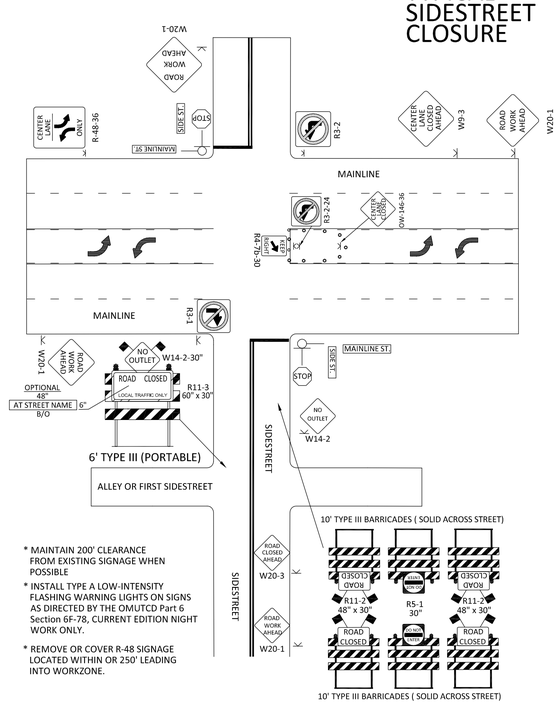
*SIGN SPACING

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

NOTES:

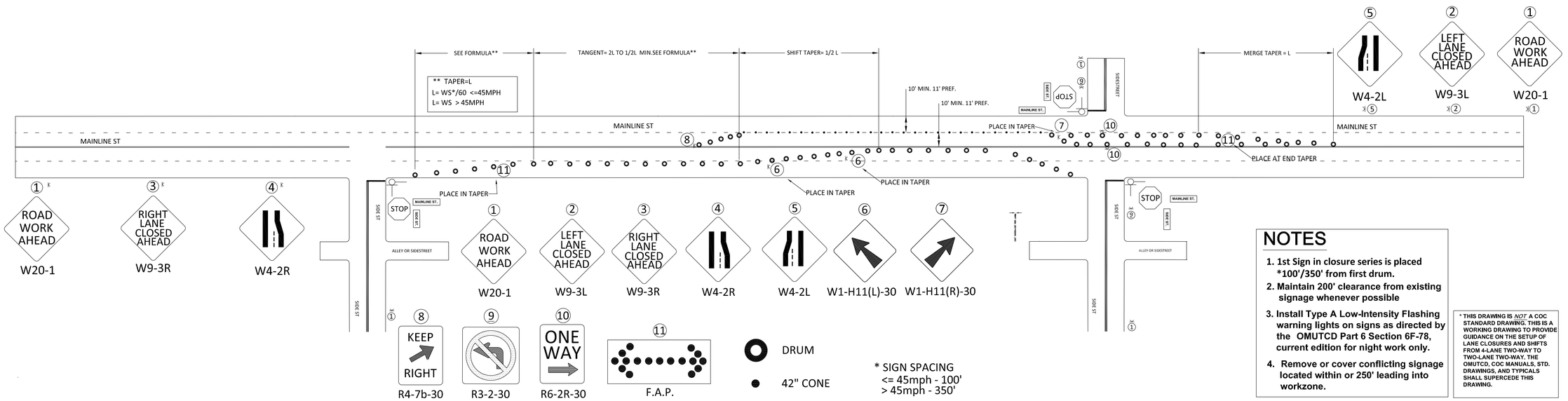
ON STRAIGHT ROADWAYS WITH SHORT WORK ZONES IN LOW VOLUME SITUATIONS, WHERE THE FLAGGER IS VISIBLE TO ROAD USERS FROM BOTH DIRECTIONS, A SINGLE FLAGGER VISIBLY POSITIONED TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS , MAY BE USED.

TYPICAL SIDESTREET CLOSURE



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

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



NOTES

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

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

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

GENERAL NOTES SHEET 10 OF 13
MAINTENANCE OF TRAFFIC SHEET 5 OF 5

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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MAINTENANCE OF TRAFFIC TABLE FOR A SINGLE PROJECT WITH MULTIPLE LOCATIONS

EXISTING CONDITIONS				MAINTENANCE OF TRAFFIC CONDITIONS					
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	EXISTING TRAFFIC PATTERN	MINIMUM TRAFFIC PATTERN	LEO REQUIRED	PLAN PG. #	WEEKDAY WORK HOURS	NIGHT WORK PERMITTED	WEEKEND WORK PERMITTED
BROAD ST	INTERSECTIONS ONLY								
		FOURTH ST			Y	116	NOT PERMITTED	YES	NO
		FIFTH ST			Y	119	9AM - 3:30 PM	YES	NO
		GRANT AVE			Y	121	9AM - 3:30 PM	YES	NO
		CLEVELAND AVE			Y	122	9AM - 3:30 PM	YES	NO
		I-71 NB			Y	125	9AM - 3:30 PM	YES	NO
		PARSONS AVE			Y	126	9AM - 3:30 PM	YES	NO
		ROSEHILL RD			Y	307	9AM - 4:00 PM	YES	NO
		EASTPOINTE SHOPPING CENTER			Y	310	9AM - 4:00 PM	YES	NO
CIVIC CENTER DR	MAIN ST TO RICH ST		2W-2L	2W-1L WITH FLAGGER	N	494	9AM - 3:30 PM	NO	NO
		MAIN ST			Y	160	9AM - 3:30 PM	NO	NO
		RICH ST			Y	10	9AM - 3:30 PM	NO	NO
CLEVELAND AVE	SPRING ST TO JACK GIBBS BLVD		2W-4L	2W-2L	N	512 - 513	9AM - 3:30 PM	YES	NO
		SPRING ST			Y	90	9AM - 3:30 PM	YES	NO
		NAUGHTEN ST			Y	71	9AM - 3:30 PM	YES	NO
		MT VERNON AVE			Y	70	9AM - 3:30 PM	YES	NO
		JEFFERSON(FUTURE)			Y	69	9AM - 3:30 PM	YES	NO
		EB I-670			Y	68	9AM - 3:30 PM	YES	NO
		JACK GIBBS BLVD			Y	67	9AM - 3:30 PM	YES	NO
DUBLIN RD	SOUDER RD TO HANOVER ST		2W-6L	2W-2L	N	475 - 476	9AM - 4:00 PM	YES	NO
		TWIN RIVERS DR			Y	301	9AM - 4:00 PM	YES	NO
		WB I-670			Y	300	9AM - 4:00 PM	YES	NO
		EB I-670			Y	299	9AM - 4:00 PM	YES	NO
		SOUDER RD			Y	298	9AM - 4:00 PM	YES	NO
		NB SR-315			Y	297	9AM - 4:00 PM	YES	NO
FOURTH ST	INTERSECTIONS ONLY								
		FULTON ST			Y	175	9AM - 3:30 PM	YES	NO
		MOUND ST			Y	168	9AM - 3:30 PM	YES	NO
		E MAIN ST			Y	156	9AM - 3:30 PM	YES	NO
		RICH ST			Y	153	9AM - 3:30 PM	YES	NO
		TOWN ST			Y	141	9AM - 3:30 PM	YES	NO
		MT VERNON AVE/NAUGHTON AVE			Y	75	9AM - 3:30 PM	NO	NO
FRONT ST	SOUTH OF MOUND ST		1W-3L	1W-1L	N	485	9AM - 4:00 PM	YES	NO
		LIVINGSTON AVE			Y	172	9AM - 4:00 PM	YES	NO
	MOUND ST TO TOWN ST		2W-4L	2W-2L	N	485	9AM - 3:30 PM	NO	NO
		MOUND ST			Y	164	9AM - 3:30 PM	NO	NO
		MAIN ST			Y	161	9AM - 3:30 PM	NO	NO
		RICH ST			Y	150	9AM - 3:30 PM	NO	NO
		TOWN ST			Y	138	9AM - 3:30 PM	NO	NO
	TOWN ST TO STATE ST		2W-2L	2W-1L WITH FLAGGER	N	485 - 486	9AM - 3:30 PM	NO	NO
		STATE ST			Y	137	9AM - 3:30 PM	NO	NO
	STATE ST TO CAPITAL ST		1W-5L	1W-2L	N	486	9AM - 3:30 PM	NO	NO
	CAPITAL ST TO LONG ST		1W-5L	1W-2L	N	486	9AM - 3:30 PM	YES	NO
		BROAD ST			Y	114	NOT PERMITTED	YES	NO
		GAY ST			Y	104	9AM - 3:30 PM	YES	NO

SEE SHEETS 25, 26, AND 27 FOR
STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT
PERMITTED DURING NIGHT WORK HOURS.

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

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

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

2762 DR. E

FEDERAL PROJECT NUMBER
E036(481)

PID NUMBER
13034

GENERAL NOTES SHEET 11 OF 13
MAINTENANCE OF TRAFFIC TABLE 1 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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MAINTENANCE OF TRAFFIC TABLE FOR A SINGLE PROJECT WITH MULTIPLE LOCATIONS

EXISTING CONDITIONS				MAINTENANCE OF TRAFFIC CONDITIONS					
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	EXISTING TRAFFIC PATTERN	MINIMUM TRAFFIC PATTERN	LEO REQUIRED	PLAN PG. #	WEEKDAY WORK HOURS	NIGHT WORK PERMITTED	WEEKEND WORK PERMITTED
FRONT ST (cont.)	LONG ST TO SPRING ST		1W-5L	1W-2L	N	486	9AM - 3:30 PM	NO	NO
		LONG ST			Y	94	9AM - 3:30 PM	YES	NO
		SPRING ST			Y	83	9AM - 3:30 PM	YES	NO
	SPRING ST TO VINE ST		2W-4L	2W-2L	N	487	9AM - 3:30 PM	YES	NO
		NATIONWIDE PLAZA			Y	181	9AM - 3:30 PM	YES	NO
		NATIONWIDE BLVD			Y	73	9AM - 3:30 PM	YES	NO
		VINE ST			Y	179	9AM - 3:30 PM	YES	NO
GAY ST	FRONT ST TO THIRD ST		2W-2L	2W-1L WITH FLAGGER	N	491	9AM - 3:30 PM	NO	NO
		FRONT ST			Y	104	9AM - 3:30 PM	NO	NO
		HIGH ST			Y	105	9AM - 3:30 PM	NO	NO
	THIRD ST TO YOUNG ST		2W-2L	2W-1L WITH FLAGGER	N	491, 492	9AM - 3:30 PM	NO	NO
		THIRD ST			Y	107	9AM - 3:30 PM	NO	NO
		FOURTH ST			Y	110	9AM - 3:30 PM	NO	NO
	YOUNG ST TO GRANT ST		2W-2L	2W-1L WITH FLAGGER	N	492	9AM - 3:30 PM	NO	NO
		GRANT ST			Y	121	9AM - 3:30 PM	NO	NO
GRANT ST	INTERSECTIONS ONLY								
		OAK ST			Y	127	9AM - 3:30 PM	YES	NO
		STATE ST			Y	128	9AM - 3:30 PM	YES	NO
HIGH ST	INTERSECTIONS ONLY		2W-4L	2W-2L	N	478 - 482	NOT PERMITTED	YES	YES
		FULTON ST			Y	169	NOT PERMITTED	YES	YES
		MOUND ST			Y	166	NOT PERMITTED	YES	YES
		MAIN ST			Y	162	NOT PERMITTED	YES	YES
		RICH ST			Y	151	NOT PERMITTED	YES	YES
		TOWN ST			Y	139	NOT PERMITTED	YES	YES
		STATE ST			Y	132	NOT PERMITTED	YES	YES
		BROAD ST			Y	115	NOT PERMITTED	YES	YES
		GAY ST			Y	105	NOT PERMITTED	YES	YES
		LONG ST			Y	97	NOT PERMITTED	YES	YES
		SPRING ST			Y	85	NOT PERMITTED	YES	YES
		CHESNUT ST			Y	79	NOT PERMITTED	YES	YES
		NATIONWIDE BLVD			Y	74	NOT PERMITTED	YES	YES
		VINE ST			Y	180	NOT PERMITTED	YES	YES
		GOODALE ST			Y	483	NOT PERMITTED	YES	YES
LONG ST	INTERSECTIONS ONLY								
		THIRD ST			Y	96	9AM - 3:30 PM	NO	NO
		FOURTH ST			Y	98	9AM - 3:30 PM	NO	NO
		WASHINGTON AVE			Y	99	9AM - 3:30 PM	YES	NO
	GRANT AVE TO HAMILTON AVE		1W-4L	1W-2L	N	515, 518	9AM - 3:30 PM	YES	NO
		GRANT AVE			Y	101	9AM - 3:30 PM	YES	NO
		CLEVELAND AVE			Y	102	9AM - 3:30 PM	YES	NO
		WASHINGTON AVE			Y	99	9AM - 3:30 PM	YES	NO
		JEFFERSON AVE			Y	199	9AM - 3:30 PM	YES	NO
		LESTER DR			Y	201	9AM - 3:30 PM	YES	NO
		HAMILTON AVE			Y	200	9AM - 3:30 PM	YES	NO
MAIN ST	WEST OF GRANT ST		1W-4L	1W-2L	N	489	9AM - 3:30 PM	YES	NO
	GRANT ST TO PARSONS AVE		2W-4L	2W-2L	N	509	9AM - 3:30 PM	YES	NO
		FIFTH ST			Y	157			
		GRANT ST			Y	158	9AM - 3:30 PM	YES	NO
		WASHINGTON AVE			Y	146	9AM - 3:30 PM	YES	NO
		SB I-71			Y	149	9AM - 3:30 PM	YES	NO
		PARSONS AVE			Y	147	9AM - 3:30 PM	YES	NO
MARCONI ST	BROAD ST TO LONG ST		1W-3L	1W-1L	N	495	9AM - 3:30 PM	YES	NO
		BROAD ST			Y	113	9AM - 3:30 PM	YES	NO
		LONG ST			Y	93	9AM - 3:30 PM	YES	NO

SEE SHEETS 25, 26, AND 27 FOR STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT PERMITTED DURING NIGHT WORK HOURS.

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

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

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

2762 DR. E

FEDERAL PROJECT NUMBER
E036(481)

PID NUMBER
13034

GENERAL NOTES SHEET 12 OF 13
MAINTENANCE OF TRAFFIC TABLE 2 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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MAINTENANCE OF TRAFFIC TABLE FOR A SINGLE PROJECT WITH MULTIPLE LOCATIONS

EXISTING CONDITIONS				MAINTENANCE OF TRAFFIC CONDITIONS					
STREET NAME	WORK LIMITS	SIGNALIZED INTERSECTIONS	EXISTING TRAFFIC PATTERN	MINIMUM TRAFFIC PATTERN	LEO REQUIRED	PLAN PG. #	WEEKDAY WORK HOURS	NIGHT WORK PERMITTED	WEEKEND WORK PERMITTED
MOUND ST	FRONT ST TO FOURTH ST		2W-4L	2W-2L	N	489	9AM - 3:30 PM	YES	NO
		FRONT ST			Y	164	9AM - 3:30 PM	NO	NO
		HIGH ST			Y	166	9AM - 3:30 PM	NO	NO
		THIRD ST			Y	167	9AM - 3:30 PM	YES	NO
		FOURTH ST			Y	168	9AM - 3:30 PM	YES	NO
NATIONWIDE BLVD	FRONT ST TO HIGH ST		2W-4L	2W-2L	N	501	9AM - 3:30 PM	YES	NO
		FRONT ST			Y	73	9AM - 3:30 PM	YES	NO
		HIGH ST			Y	74	9AM - 3:30 PM	YES	NO
NEIL AVE	SPRING ST TO NATIONWIDE BLVD		2W-4L	2W-2L	N	498	9AM - 4:00 PM	NO	NO
		NATIONWIDE BLVD			Y	184	9AM - 4:00 PM	NO	NO
	NATIONWIDE BLVD TO GOODALE ST		2W-4L	2W-2L		498 - 499			
		BRODBELT LN			Y	185	9AM - 4:00 PM	YES	NO
		VINE ST			Y	187	9AM - 4:00 PM	YES	NO
		EB I-670			Y	186	9AM - 4:00 PM	YES	NO
		GOODALE ST			Y	192	9AM - 4:00 PM	YES	NO
PARSONS AVE	MAIN ST TO BROAD ST		2W-4L	2W-2L	N	510	9AM - 3:30 PM	YES	NO
		MAIN ST			Y	147	9AM - 3:30 PM	YES	NO
		TOWN ST			Y	145	9AM - 3:30 PM	YES	NO
		OAK ST			Y	131	9AM - 3:30 PM	YES	NO
		BROAD ST			Y	126	9AM - 3:30 PM	YES	NO
RICH ST	CIVIC CENTER DR TO FRONT ST		2W-2L	2W-1L WITH FLAGGER	N	489	9AM - 3:30 PM	NO	NO
SECOND ST	MOUND ST TO MAIN ST		2W-2L	2W-1L WITH FLAGGER	N	494	9AM - 3:30 PM	NO	NO
		MOUND ST			Y	173	9AM - 3:30 PM	NO	NO
SIXTH ST		STATE ST			Y	135	9AM - 3:30 PM	YES	NO
SPRING ST	NEIL AVE TO FRONT ST		1W-4L	1W-2L	N	496	9AM - 3:30 PM	YES	NO
		NEIL AVE			Y	81	9AM - 3:30 PM	YES	NO
		WEST ST			Y	82	9AM - 3:30 PM	YES	NO
		MARCONI ST			Y	93	9AM - 3:30 PM	YES	NO
	INTERSECTIONS ONLY								
		THIRD ST			Y	87	9AM - 3:30 PM	YES	NO
		FOURTH ST			Y	86	9AM - 3:30 PM	YES	NO
		WASHINGTON AVE			Y	92	9AM - 3:30 PM	YES	NO
THIRD ST	INTERSECTIONS ONLY								
		LYNN ALLEY			Y	108	9AM - 3:30 PM	NO	NO
TOWN ST		THIRD ST			Y	140	9AM - 3:30 PM	YES	NO
		WASHINGTON			Y	144	9AM - 3:30 PM	YES	NO
VINE ST	NEIL AVE TO KILBOURNE ST		2W-4L	2W-2L	N	506	9AM - 4:00 PM	YES	NO
		NEIL AVE			Y	184	9AM - 4:00 PM	YES	NO
	KILBOURNE ST TO FRONT ST		2W-2L	2W-1L WITH FLAGGER	N	507	9AM - 4:00 PM	NO	NO
		KILBOURNE ST			Y	188	9AM - 4:00 PM	NO	NO
		FRONT ST			Y	179	9AM - 4:00 PM	NO	NO

SEE SHEETS 25, 26, AND 27 FOR
STANDARD MOT LANE CLOSURE DIAGRAMS.

FLAGGING OPERATIONS ARE NOT
PERMITTED DURING NIGHT WORK HOURS.

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

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

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

2762 DR. E

FEDERAL PROJECT NUMBER
E036(481)

PID NUMBER
13034

GENERAL NOTES SHEET 13 OF 13
MAINTENANCE OF TRAFFIC TABLE 3 OF 3

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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SUB-SUMMARY SHEET NUMBERS											REFERENCE	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
33	34	35	36	383	384	385	386	387	388	GENERAL NOTES					
-	-	-	-	-	-	-	-	-	-	1	ODOT CMS	201	1	LS	CLEARING AND GRUBBING
30	-	-	-	10	-	-	-	-	-	200	ODOT CMS	202	240	FT	CURB REMOVED
165	-	159	-	78,961	-	-	48,738	-	-	2000	SP-103	202	130,023	FT	EXISTING CONDUIT CLEANED, AS PER PLAN
400	-	-	-	200	-	-	-	-	-	100	ODOT CMS	202	700	SF	WALK REMOVED
-	-	-	-	-	-	-	-	-	-	4174	SHEET 45	254	4,174	SY	PAVEMENT PLANING, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	147	SHEET 45 & ODOT CMS	407	147	GAL	TACK COAT
-	-	-	-	-	-	-	-	-	-	315	SHEET 45	448	315	CY	ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M, AS PER PLAN
400	-	-	-	200	-	-	-	-	-	300	COLUMBUS STD. CONSTRUCTION DWG.	608	900	SF	8" CONCRETE WALK, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	400	COLUMBUS STD. CONSTRUCTION DWG.	608	400	SF	CURB RAMP, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	300	COLUMBUS STD. CONSTRUCTION DWG.	609	300	FT	COMBINATION CURB AND GUTTER, TYPE SPECIAL - 8", AS PER PLAN
30	-	-	-	10	-	-	-	-	-	150	COLUMBUS STD. CONSTRUCTION DWG.	609	190	FT	CURB, STRAIGHT 18", AS PER PLAN
-	-	-	-	-	-	-	-	-	-	100	SHEET 24	614	100	HR	LAW ENFORCEMENT OFFICER WITH PATROL CAR
-	-	-	-	-	-	-	-	-	-	300	SHEET 24	614	300	HR	LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR
-	-	-	-	-	-	-	-	-	-	1	SHEETS 23 TO 30	614	1	LS	MAINTAINING TRAFFIC, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	24	SHEET 19 & ODOT CMS	616	24	TON	CALCIUM CHLORIDE
-	-	-	-	-	-	-	-	-	-	10	SHEET 19 & ODOT CMS	616	10	M GAL	WATER
-	-	-	-	-	-	-	-	-	-	100	SP-103	622	100	FT	BARRIER, MISC.: BARRIER REPAIR
-	-	-	-	-	-	-	-	-	-	1	ODOT CMS	624	1	LS	MOBILIZATION
2	-	7	-	5	-	-	-	-	-	-	SHEET 50 & SP-103	625	14	EACH	BRACKET ARM, 30', AS PER PLAN
-	-	-	-	1,753	-	-	2,149	-	-	500	SP-103	625	4,402	FT	CONDUIT, 2", 725.05, AS PER PLAN
-	-	364	-	16,283	-	-	38,236	-	-	500	SHEET 44 & SP-103	625	55,383	FT	CONDUIT, 3", 725.05, AS PER PLAN
814	-	-	-	45	-	-	2,282	-	-	2500	SHEET 44 & SP-103	625	5,641	FT	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN
-	-	-	-	2,885	-	-	4,062	-	-	-	SHEET 44 & SP-103	625	6,947	FT	CONDUIT, CONCRETE ENCASED, 4-3", 725.05, AS PER PLAN
-	-	92	-	898	-	-	5,051	-	-	500	SHEET 44 & SP-103	625	6,541	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05, 3", AS PER PLAN
-	-	-	-	355	-	-	207	-	-	-	SHEET 39 & SP-103	625	562	FT	CONDUIT, MISC.: 4" CONDUIT, FIBER-GLASS REINFORCED, ATTACHED TO STRUCTURE
-	-	-	-	-	-	-	-	-	-	2000	SHEET 47 & SP-103	625	2,000	FT	CONDUIT, MISC.: CONDUIT REPAIR
-	-	-	-	5,564	-	-	2,763	-	-	-	ODOT CMS	625	8,327	FT	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE
-	-	-	-	-	-	-	3,576	-	-	-	ODOT CMS	625	3,576	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE
-	-	-	-	-	-	-	1,648	-	-	-	ODOT CMS	625	1,648	FT	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
-	-	-	-	2	-	-	6	-	-	-	SHEETS 60-66 & SP-103	625	8	EACH	POWER SERVICE, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	5	SHEET 37 & ODOT CMS	625	5	EACH	POWER SERVICE, REMOVED
-	-	-	-	8	-	-	17	-	-	5	SP-103	625	30	EACH	PULL BOX, 18", AS PER PLAN
1	-	-	-	-	-	-	-	-	-	15	SP-103	625	16	EACH	PULL BOX, MISC.: CONCRETE, 24"
5	-	3	-	-	40	-	-	133	-	35	SHEET 46 & SP-103	625	216	EACH	PULL BOX, MISC.: CONCRETE, 32"
-	-	-	-	-	3	-	-	3	-	-	SHEET 46 & SP-103	625	6	EACH	PULL BOX, MISC.: CONCRETE, 48"
-	-	-	-	-	-	-	-	39	-	15	SP-103	625	54	EACH	PULL BOX, REMOVED, AS PER PLAN
814	-	-	-	-	1,011	-	-	3,442	-	420	SHEET 45 AND SP-103	625	5,687	FT	TRENCH IN PAVED AREA, AS PER PLAN
-	-	364	-	-	11,955	-	-	22,013	-	700	SP-103	625	35,032	FT	TRENCH, 36" DEEP, AS PER PLAN
-	-	-	-	-	-	-	-	-	-	100	SHEET 37 AND ODOT CMS	630	100	SF	SIGN, FLAT SHEET
10	-	2	-	-	29	-	-	10	-	30	SHEET 42 & SP-103	632	81	EACH	CONDUIT: 2" RISER, AS PER PLAN

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PID NUMBER 13034

GENERAL SUMMARY 1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

2762 DR. E

SUB-SUMMARY SHEET NUMBERS											REFERENCE	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
33	34	35	36	383	384	385	386	387	388	GENERAL NOTES					
-	-	-	-	-	-	-	-	1,693	-	-	ODOT CMS	632	1,693	FT	INTERCONNECT CABLE, 12 PAIR, NO. 19 AWG, SOLID, REA (PE-39)
1,495	-	-	-	-	166	-	-	-	-	-	SP-103	632	1,661	FT	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE
4,329	-	3,178	-	-	49,337	-	-	105,679	-	2,500	SP-103	632	165,023	FT	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES
15	-	8	-	-	13	-	-	-	-	-	SP-103	632	36	EACH	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM
-	-	1	-	-	-	-	-	-	-	1	ODOT CMS	632	2	EACH	STRAIN POLE FOUNDATION
-	-	1	-	-	-	-	-	-	-	1	ODOT CMS	632	2	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 6
-	-	-	-	-	-	-	-	8	-	-	ODOT CMS	632	8	EACH	WOOD POLE
-	-	-	-	-	-	-	-	1	-	-	ODOT CMS	633	1	EACH	CABINET FOUNDATION
-	-	-	1	-	-	-	-	-	-	-	SP-103	633	1	EACH	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN
-	-	-	2	-	-	-	-	-	-	-	SP-103	633	2	EACH	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN
-	-	-	-	-	-	-	-	1	-	-	SP-103	633	1	EACH	CABINET, TYPE 334, AS PER PLAN
-	10	-	-	-	-	-	-	-	-	-	SP-103	633	10	EACH	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER
								-	-	1	SP-103	633	1	LS	CONTROLLER ITEM, MISC.: CENTRAL CONTROL SYSTEM
-	-	-	-	-	2	-	-	5	-	1	SP-103	633	8	EACH	CONTROLLER ITEM, MISC.: COMMUNICATIONS NODE
-	326	-	137	-	151	-	-	31	-	20	SP-103	633	665	EACH	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER
-	17	-	9	-	1	-	-	-	-	-	SP-103	633	27	EACH	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE
-	185	-	78	-	65	-	-	1	-	9	SP-103	633	338	EACH	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH
-	-	-	-	-	4	-	-	5	-	-	SP-103	633	9	EACH	CONTROLLER ITEM, MISC.: LAYER 3 ETHERNET SWITCH
-	63	-	44	-	49	-	-	-	-	2	SP-103	633	158	EACH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER
-	12	-	-	-	-	-	-	-	-	-	SP-103	633	12	EACH	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER
-	100	-	20	-	-	11	-	-	-	5	SP-103	633	136	EACH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN
-	11,406	-	3,778	-	-	711	-	-	340	500	SP-103	633	16,735	FT	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED
-	120	-	664	-	-	13,730	-	-	69,548	-	SP-103	633	84,062	FT	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT
-	2,772	-	188	-	-	40,119	-	-	34,785	-	SP-103	633	77,864	FT	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT
-	-	-	-	-	-	-	-	-	-	10	SHEET 19 & ODOT CMS	659	10	M GAL	WATER
-	22,588	-	9,398	-	-	17,106	-	-	8,189	1,500	SP-103	804	58,781	FT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE
-	3,887	-	1,429	-	-	1,221	-	-	-	-	SP-103	804	6,537	FT	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE
-	-	-	-	-	-	180,457	-	-	250,684	2,000	SP-103	804	433,141	FT	FIBER OPTIC CABLE, MISC.: 144 STRAND CABLE
-	-	-	-	-	-	4,734	-	-	23,860	-	SP-103	804	28,594	FT	FIBER OPTIC CABLE, MISC.: 288 STRAND CABLE
-	-	-	-	-	-	4	-	-	10	6	SP-103	804	20	EACH	FIBER OPTIC CABLE, MISC.: 24 COUNT PRE-TERMINATED PATCH PANEL ASSEMBLY
-	127	-	59	-	-	59	-	-	7	10	SP-103	804	262	EACH	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION
-	23	-	7	-	-	7	-	-	-	2	SP-103	804	39	EACH	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION
-	-	-	-	-	-	11	-	-	15	-	SP-103	804	26	EACH	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 144 TERMINATION
-	-	-	-	-	-	2	-	-	1	-	SP-103	804	3	EACH	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 288 TERMINATION
-	-	-	-	-	-	-	-	-	-	205,097	SP-103	804	205,097	FT	FIBER OPTIC CABLE, MISC.: UNDERGROUND FIBER OPTIC INSTALLATION
-	-	-	-	-	-	35	-	-	96	4	SP-103	804	135	EACH	SPLICE ENCLOSURE: OVERHEAD, AS PER PLAN
-	15	-	-	-	-	108	-	-	46	15	SHEET 757 & SP-103	804	184	EACH	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN
-	94	-	23	-	-	4	-	-	1	18	SP-103	815	140	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN
											SP-150	SPEC	1	LS	CRITICAL PATH METHOD PROGRESS SCHEDULE FOR LONG DURATION PROJECTS

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PID NUMBER 13034

GENERAL SUMMARY 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

2762 DR. E

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ESTIMATED QUANTITIES

	202	202	202	608	609	625	625	625	625	625	625	625	625	632	632	632	632	632	632	
	CURB REMOVED	EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK, AS PER PLAN	CURB, STRAIGHT 18", AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 3", 725.05, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05, 3", AS PER PLAN	PULL BOX, MISC.: CONCRETE, 24"	PULL BOX, MISC.: CONCRETE, 32"	TRENCH IN PAVED AREA, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT: 2" RISER, AS PER PLAN	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	STRAIN POLE FOUNDATION	STRAIN POLE, TYPE TC-81.10, DESIGN 6	
	FT	FT	SF	SF	FT	EACH	FT	FT	FT	EACH	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	
SHEET NO.																				
72																76	1			
78																	1			
84															351					
89								47				47				71				
95	10		50	50	10			73				73								
100															35	23				
106						1									234	350	1			
112																				
118								36		1		36								
124								230			2	230					1			
130	10		250	250	10			27				27				112				
136								84			1	84				50				
142								20			1	20			24					
148																268				
154																				
159	10		100	100	10			183				183				210				
165						1		114			1	114			174		2			
171																99				
177															337					
183																				
189																208	2			
196																				
204		165														75	2			
210														1		19	1			
216														3		113				
222														4	340					
228														2		103				
234																121	1			
240																395				
246																507	1			
252																401	1			
258																409				
264																408	1			
269																249				
274																62				
SUB TOTAL																				
	30	165	400	400	30	2	-	814	-	1	5	814	-	10	1,495	4,329	15	-	-	

2762 DR. E

PID NUMBER 13034

SUB SUMMARY
VOLUME 1 – SHEET 1A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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ESTIMATED QUANTITIES

	633	633	633	633	633	633	633	633	633	633	633	633	804	804	804	804	804	815		
	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN		
SHEET NO.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH		
72				1	10	5	2		1				793		5					
78					9	5	2		3	716			110	515	1	2		4		
84			1		12	6	1	2	5	813			228	472	2	2		4		
89					4	4	1		3	528			298		2		1	6		
95					7	5	1		4	130			529		4		1	3		
100			1		4	5	1	2	4	565			255		2			5		
106			1		15	6	3	2	3	229	67		443	442	2	3		1		
112					6	5	4		1	979			389		3			6		
118				1	9	5	1		3	473			729		4		1	3		
124					5	5	1		4	1,066			565		2		2	11		
130					4	5	1		4	683	53		372		2		1	8		
136					7	5	2		3	709			469	110	3	1	1	8		
142			1	2	8	6	1	2	3	707			565		4		1	4		
148					6	5			5	391			407		3			4		
154				1	8	5			4	242			285	211	2	1		4		
159					9	4			4	582			736		4		3	5		
165				4	15	6	2	1	1	280			803	233	4	2	2	2		
171				1	10	5	1		3	680			514	163	3	1		6		
177			1		1	6	3	1	3	901			118		1			9		
183					9	5	2		3	35			420	116	3	1		1		
189					13	5	4		1				716	443	3	2				
196					11	6	6						748		6					
204			1		17	8	4					75	1,624	198	8	1	1			
210					12	6	4		1			19	1,108	93	6	1	1			
216					10	5	3		2			113	681	136	4	1				
222			2	3	12	6	4	2		172			620	104	4	1				
228			2	3	12	7	3		1	293		63	667	94	4	1				
234				1	12	5			4			84	574	184	4	1				
240					10	5			5			382	997		5					
246					13	6			5			507	1,548	222	6	1				
252					12	5	1		4			401	834	151	4	1				
258					10	5			5			409	1,185		5					
264					10	5	2		3			408	971		5					
269					8	4	1		3			249	838		4					
274					6	4	2		2	232		62	449		3					
SUB TOTAL																				
	-	-	10	17	326	185	63	12	100	11,406	120	2,772	22,588	3,887	127	23	15	94		

PID NUMBER 13034

SUB SUMMARY
VOLUME 1 – SHEET 1B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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2762 DR. E

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ESTIMATED QUANTITIES

	202	202	202	608	609	625	625	625	625	625	625	625	632	632	632	632	632	632		
	CURB REMOVED	EXISTING CONDUIT CLEANED, AS PER PLAN	WALK REMOVED	8" CONCRETE WALK, AS PER PLAN	CURB, STRAIGHT 18", AS PER PLAN	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 3", 725.05, AS PER PLAN	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05, 3", AS PER PLAN	PULL BOX, MISC.: CONCRETE, 32"	TRENCH IN PAVED AREA, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	CONDUIT: 2" RISER, AS PER PLAN	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	STRAIN POLE FOUNDATION	STRAIN POLE, TYPE TC-81.10, DESIGN 6		
	FT	FT	SF	SF	FT	EACH	FT	FT	FT	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH		
SHEET NO.																				
281						2									350	2				
287		15				1	177		92	3		177			118	1				
293		125																		
296															8					
302																1				
308															286	1				
314													1		236	1				
320						1									158	1				
324															215					
330															377					
336						2							1		296					
339		19				1	51					51			202		1	1		
345																1				
349																				
355							94					94			465					
361							42					42			54					
367															413					
370																				
SUB TOTAL																				
	-	159	-	-	-	7	364	-	92	3	-	364	2	-	3,178	8	1	1		

PID NUMBER 13034

SUB SUMMARY
VOLUME 1 – SHEET 2A

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

35
1107

2762 DR. E

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ESTIMATED QUANTITIES

	633	633	633	633	633	633	633	633	633	633	633	633	804	804	804	804	804	815		
	CABINET, GROUND MOUNTED, TYPE TS-2, AS PER PLAN	CABINET, POLE MOUNTED, TYPE TS-2, AS PER PLAN	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN		
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH		
SHEET NO.																				
281				14		6	3		3		113		655	357	4	2				
287				9		5	3		2				1,085		5					
293				10		5	4		1		64		827		5					
296		1		4		2	2						228		2					
302				9		5	2		3	279	79		370		4					
308				13	2	5	2				238		786	625	3	2				
314				12		5	4		1		102		643	179	4	1				
320				11		5	5			90			589	143	4	1		1		
324				2	1	3	2			471	68		339		2			3		
330	1			11		5	1		4	60			899	125	4	1		1		
336		1		3	1	5	-		1	704			355		2			5		
339				2		2			2	343			165		1			2		
345				6		5	5			188			336		3			3		
349				6		3	2		1				329		3					
355				5		5	3		1	899			394		3			5		
361				10	1	5	4					25	657		5					
367				6	2	5	2		1	744		163	467		3			3		
370				4	2	2							274		2					
SUB TOTAL																				
	1	2	-	137	9	78	44	-	20	3,778	664	188	9,398	1,429	59	7	-	23		

2762 DR. E

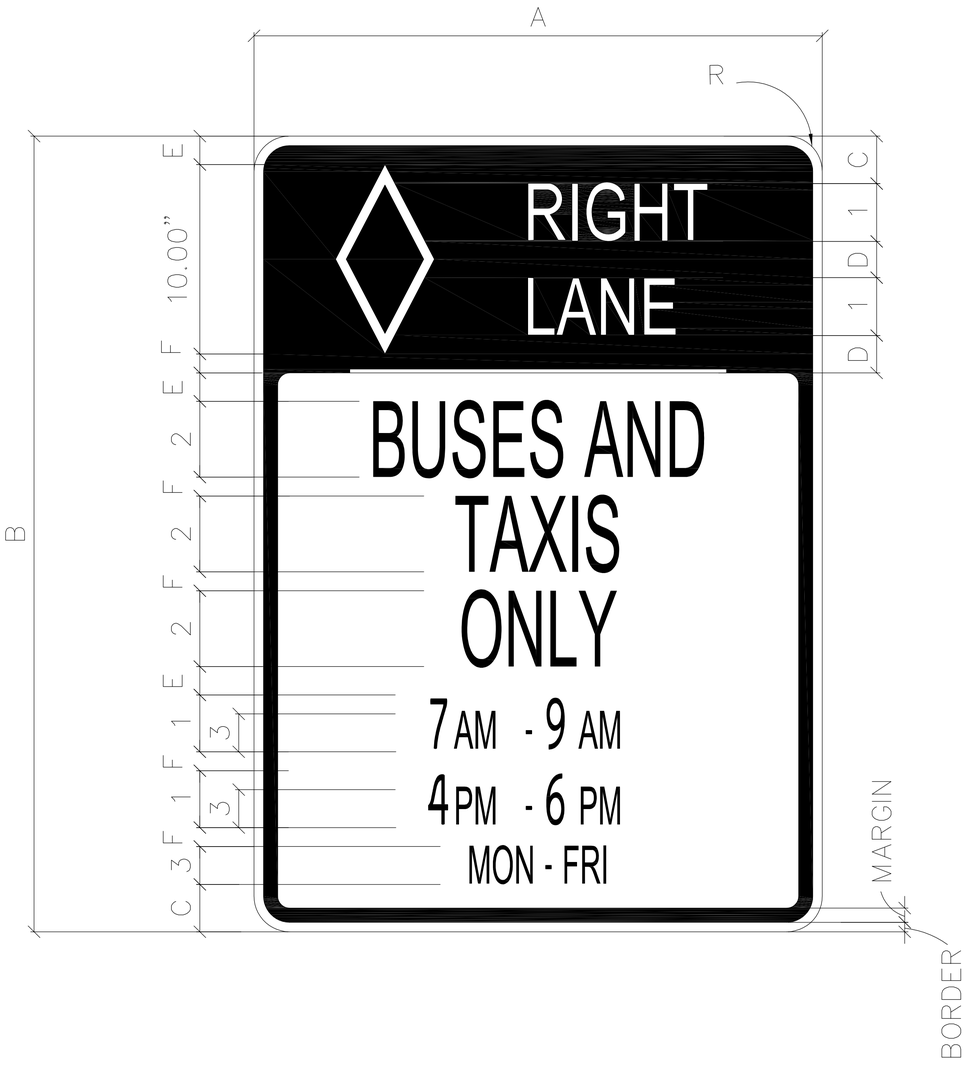
PID NUMBER 13034

SUB SUMMARY
VOLUME 1 – SHEET 2B

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

36
1107

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STREET	DIRECTION	LOCATION				ITEM 625, POWER SERVICE REMOVED	ITEM 630, SIGN, FLAT SHEET
		INT #	INT SHEET #	I/C SHEET #	STA.	EA	SF
HIGH ST	SB	0093	115	480	41+34	1	8.75
HIGH ST	NB	0093	115	480	42+52	1	8.75
HIGH ST	SB	0024	97	480	51+41	1	8.75
HIGH ST	NB	0024	97	480	52+46	1	8.75
HIGH ST	SB	0015	85	480	56+32	1	8.75
				TOTAL		5	43.75

NOTES

1. CONTRACTOR TO COORDINATE WITH THE CITY OF COLUMBUS DIVISION OF PLANNING AND OPERATIONS THROUGH THE PROJECT ENGINEER FOR THE REMOVAL AND INSTALLATION OF SIGNAGE AND ASSOCIATED POWER SERVICES.
2. POWER SERVICES REMOVED BY CITY CREWS IN ADVANCE OF PROJECT.

A	B	LETTER SIZES					C	D	E	F			
		1	2	3	4	5							
30.00	42.00	3.00 "D"	4.00 "C"	2.00 "D"			2.50	2.00	1.50	1.00			
										R		BORDER	MARGIN
										1.875		0.750	0.500

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FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

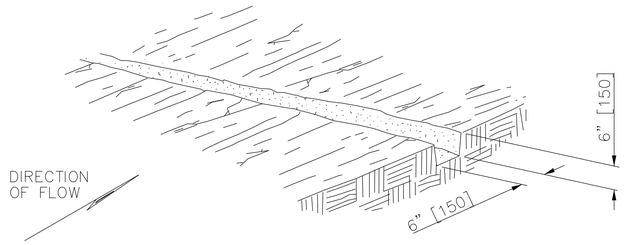
BUS LANE SIGN DETAIL

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

37
1107

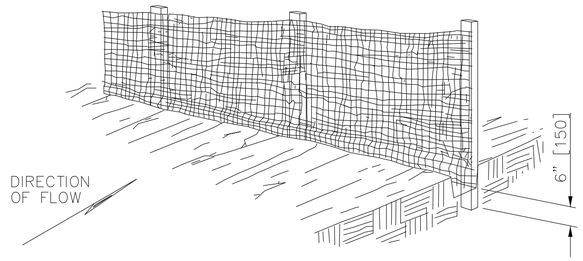
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PERIMETER FILTER FABRIC FENCE



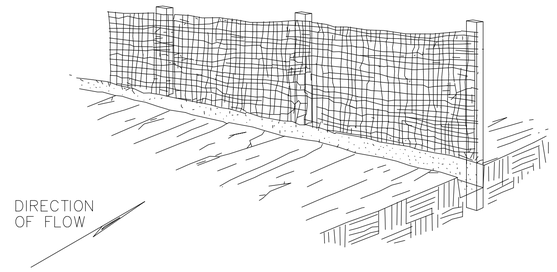
EXCAVATE A 6"X6" [150X150] TRENCH
ALONG THE PROPOSED FENCE LINE.

STEP 1



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

STEP 2



BACKFILL AND COMPACT THE EXCAVATED SOIL.

STEP 3

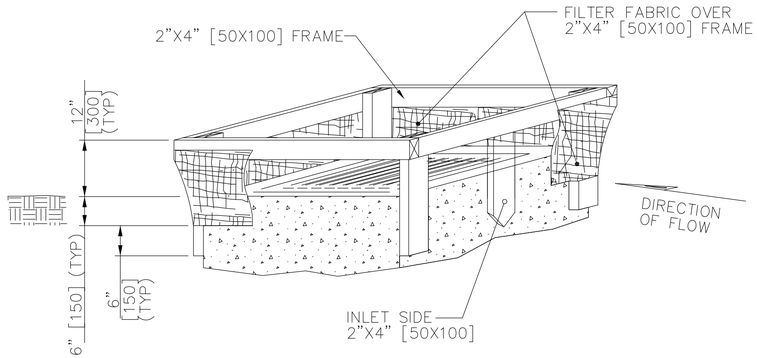
NOTES

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

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

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF PERIMETER FILTERS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 625: TRENCH, 36" DEEP, AS PER PLAN.

INLET PROTECTION



INLET PROTECTION

NOTES

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

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

PAYMENT:
ALL LABOR AND MATERIALS REQUIRED, INCLUDING THOSE NOT SPECIFICALLY IDENTIFIED IN SS832, FOR THE INSTALLATION OF INLET PROTECTION SHALL BE CONSIDERED INCIDENTAL TO THE COST OF ITEM 625: TRENCH, 36" DEEP, AS PER PLAN.

2762 DR. E

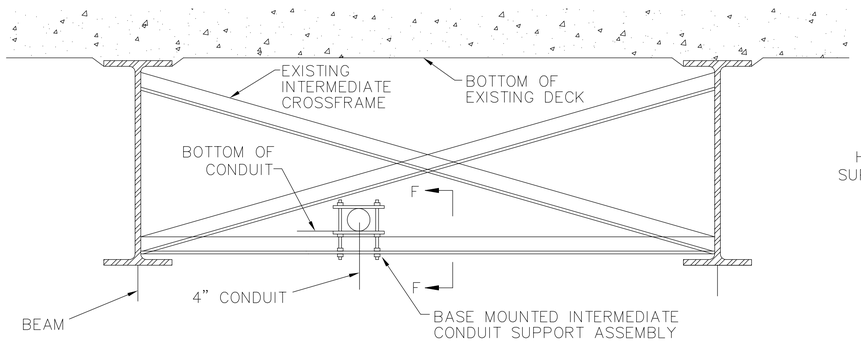
FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

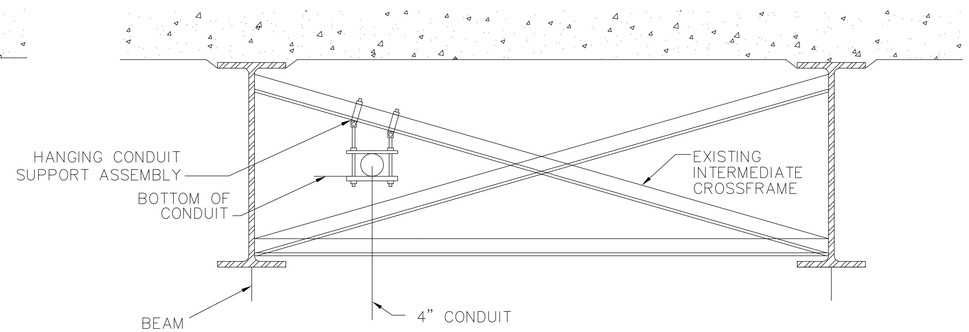
EROSION CONTROL STANDARD DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

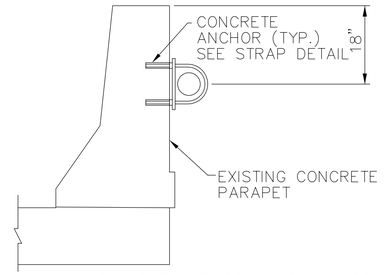
J:\Jobs\47857\TECHPROD\Sheets\ST_CTSS_002_Detail.dwg ~ SILT FENCE STD DETAIL layout ~ last saved by: CCI, mgraf 06/26/2015 04:17pm ~ printed 06/30/2015 01:02pm



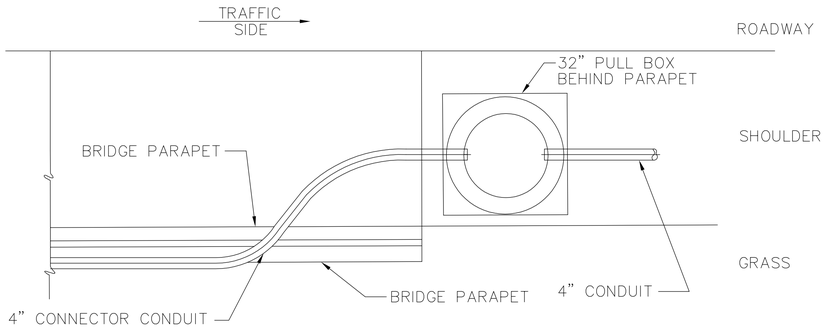
CONDUIT BEARING ATTACHMENT



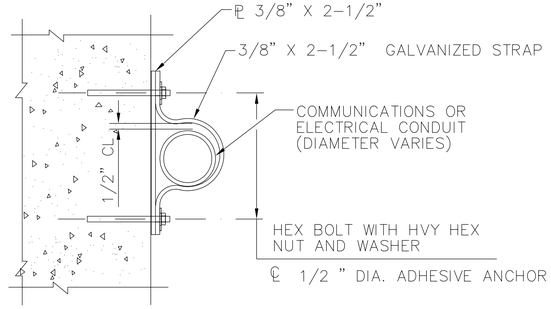
CONDUIT HANGING ATTACHMENT



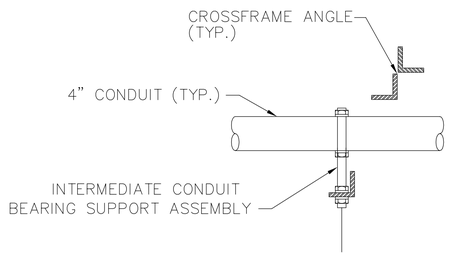
CONDUIT ATTACHMENT TO PARAPET OR BACK OF BARRIER WALL



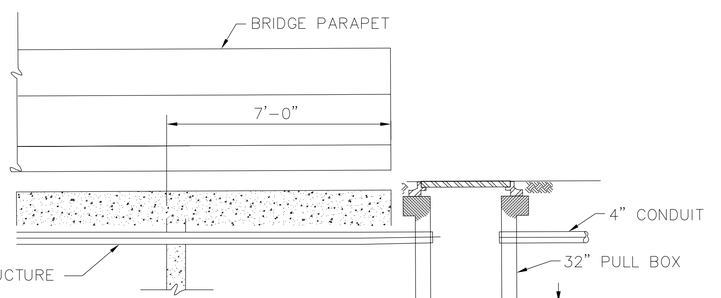
END PARAPET DETAIL
PLAN VIEW



STRAP DETAIL
NOT TO SCALE

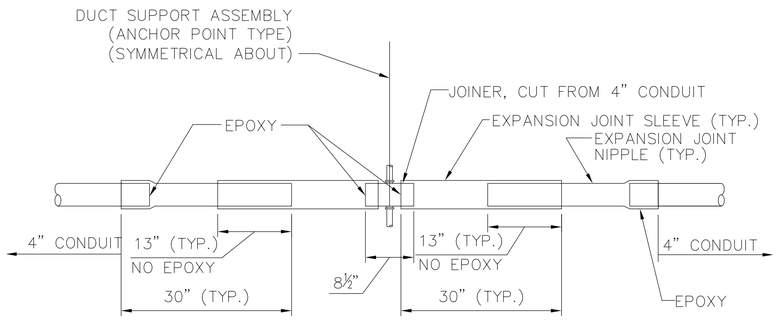


SECTION "F-F"

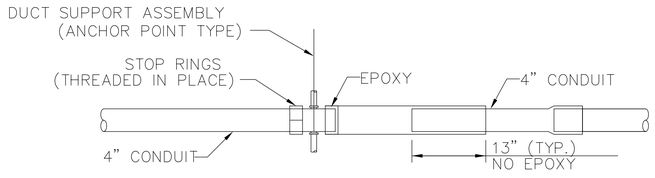


END PARAPET DETAIL
ELEVATION VIEW

TYPICAL CONDUIT
TREATMENT AT END OF BRIDGE PARAPET



BACK-TO-BACK EXPANSION JOINT DETAIL



COMBINATION STOP RING AND EXPANSION JOINT

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

TYPICAL EXPANSION JOINT DETAILS

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FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

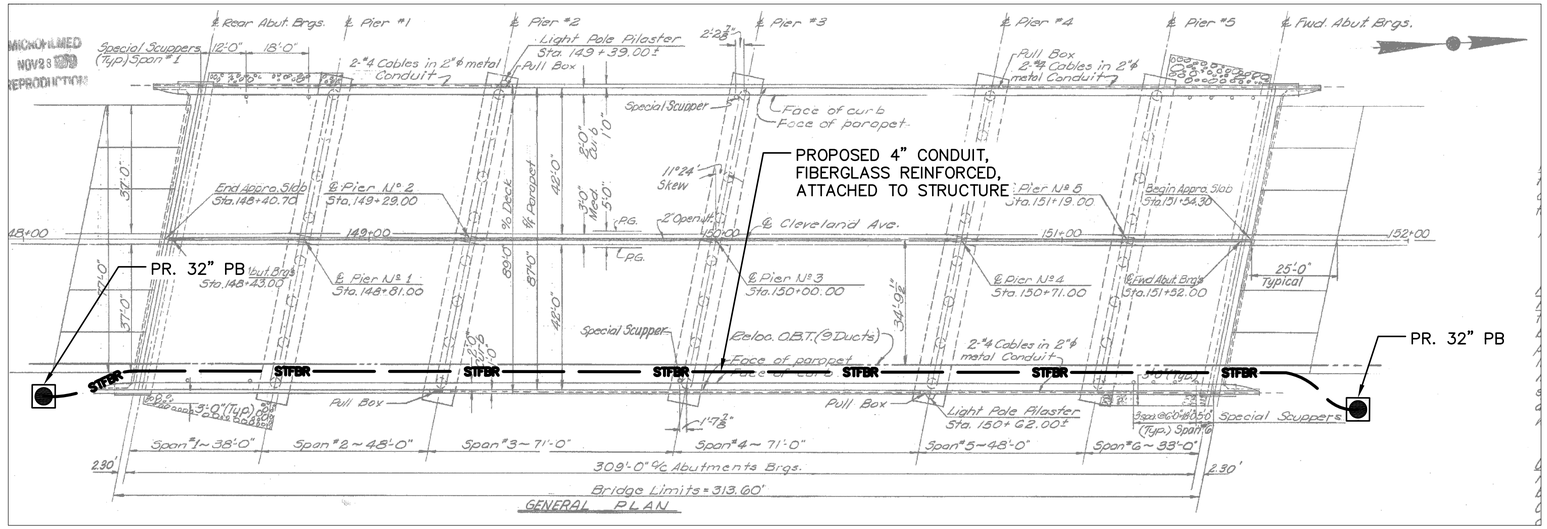
CONDUIT ATTACHED TO STRUCTURE DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

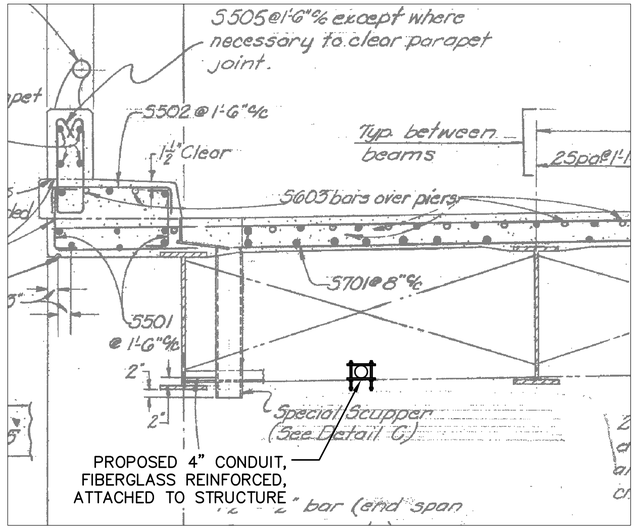
39
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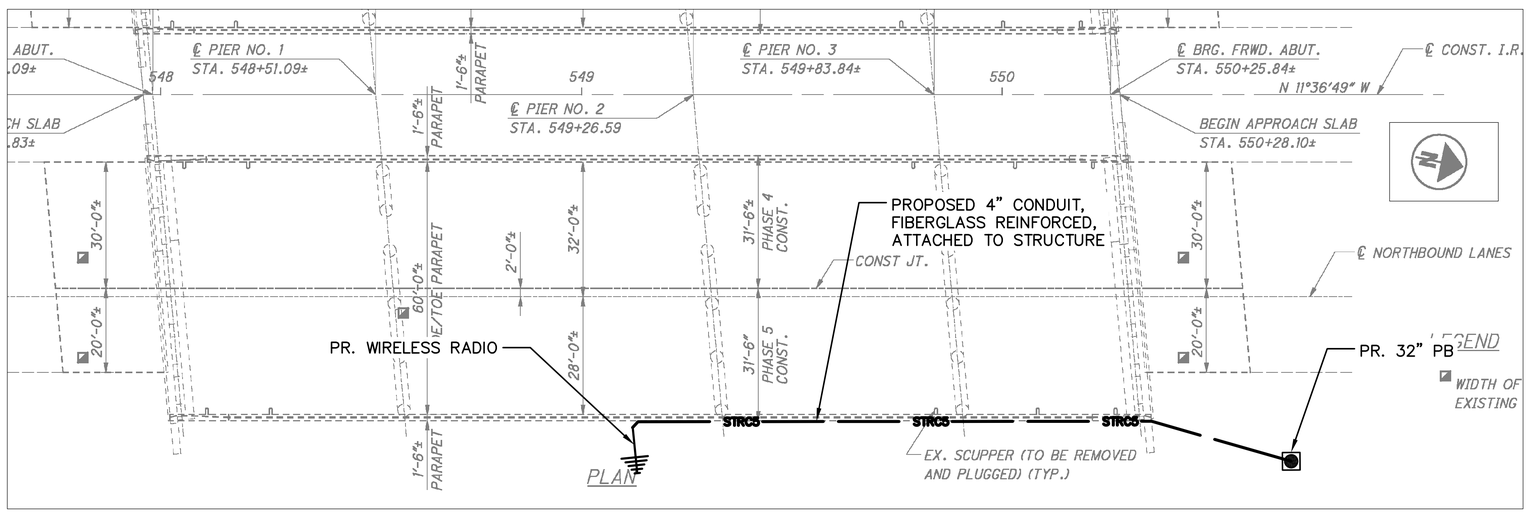
PLAN VIEW



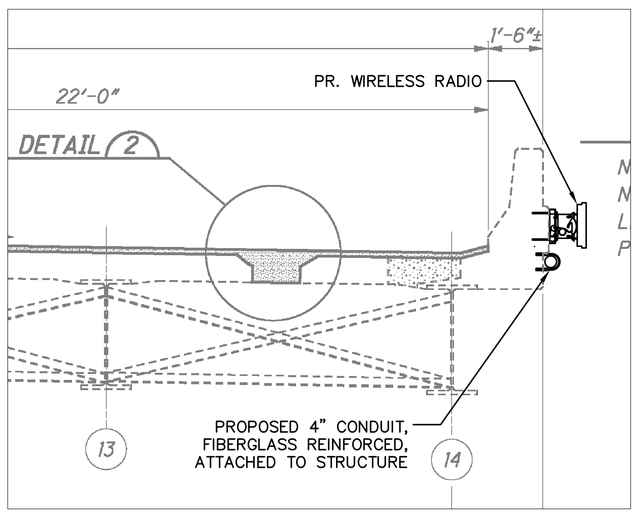
PROFILE VIEW

BRIDGE NO. FRA-270-44068 UNDER CLEVELAND AVE.
STRUCTURE FILE NO. 2517493*

SEE SHEET 39 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS.
SEE SHEET 566 FOR PLAN SHEET.



PLAN VIEW



PROFILE VIEW

BRIDGE NO. FRA-270-1474 I-270 OVER HAYDEN RUN & HAYDEN RUN ROAD
STRUCTURE FILE NO. 2510111*

SEE SHEET 39 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS.
SEE SHEET 663 FOR PLAN SHEET.
*PLANS TAKEN FROM ODOT RECORD PLANS AND ARE ONLY TO BE USED TO SHOW PROPOSED LOCATIONS OF CONDUIT, HANGERS, AND EXPANSION COUPLINGS ON BRIDGE STRUCTURES AS NEEDED.

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FEDERAL PROJECT NUMBER E036(481)

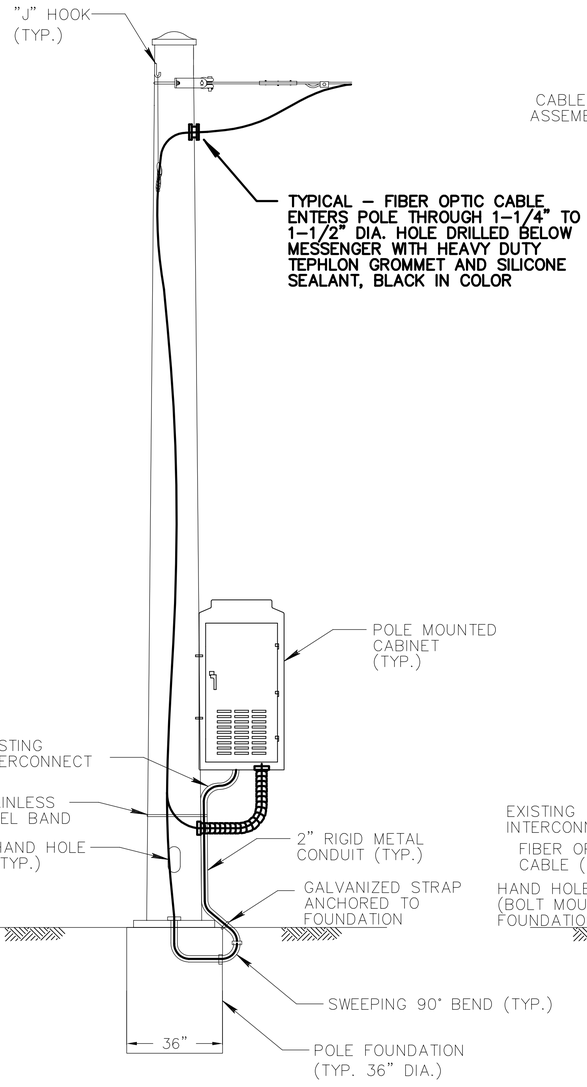
PID NUMBER 13034

BRIDGE PLANS - CLEVELAND AVE. OVER I-270 & I-270 OVER HAYDEN RUN RD

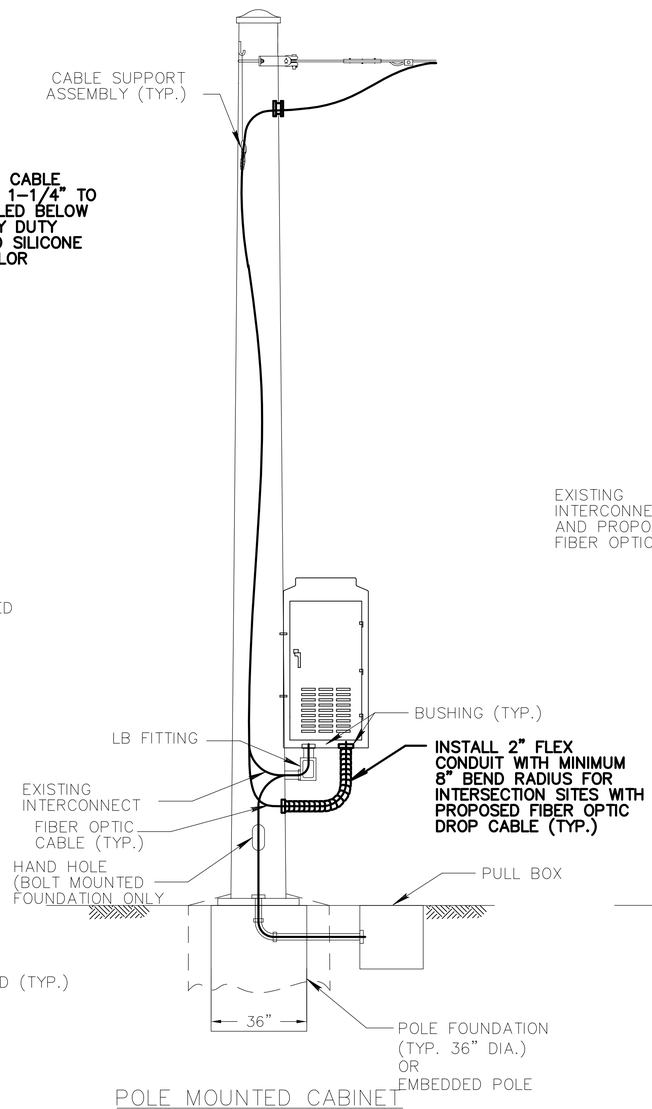
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

MICROFILMED NOV 28 REPRODUCTION

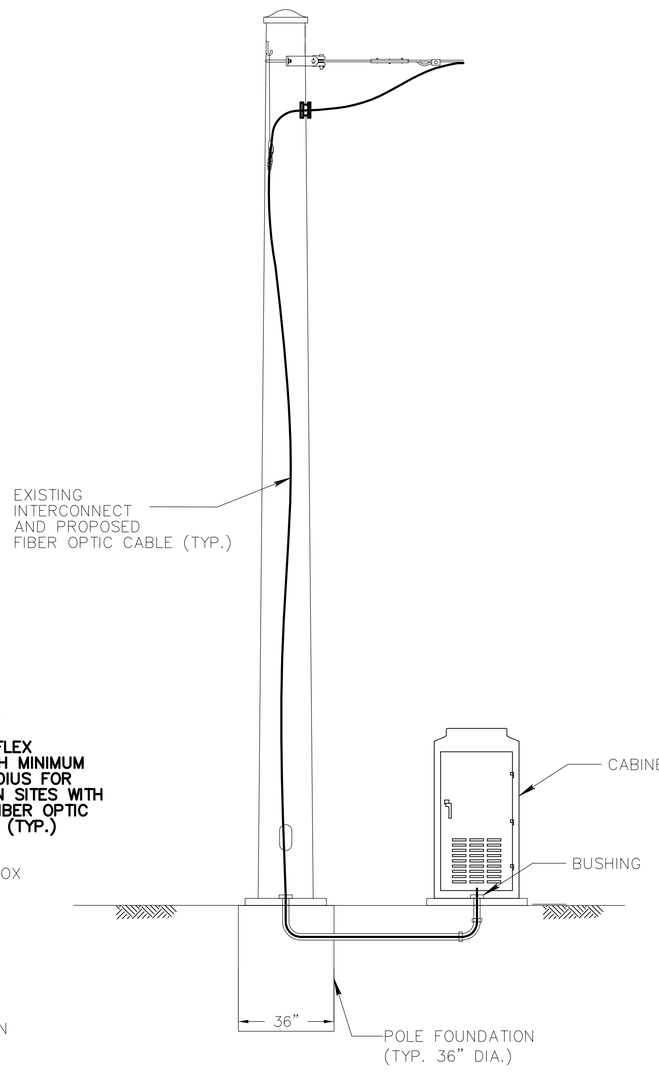
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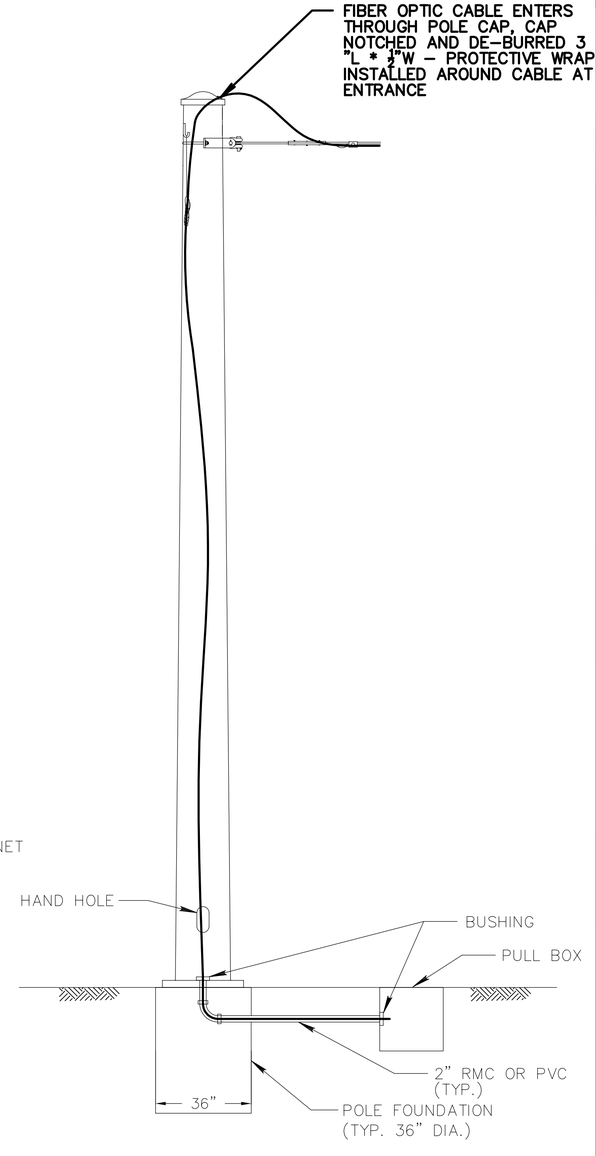
AERIAL SPAN TO
POLE MOUNTED CABINET
THROUGH POLE AND GROUND



POLE MOUNTED CABINET
THROUGH POLE



AERIAL SPAN TO
GROUND MOUNTED CABINET
THROUGH POLE



AERIAL SPAN TO
PULL BOX THROUGH POLE

NOTES:

1. PROPOSED INTERCONNECT CABLE TO BE INSTALLED THROUGH DRILLED HOLE OR CAP NOTCH AS DIRECTED BY ENGINEER. INCIDENTAL TO COST OF BID ITEM.
2. FLEXIBLE METAL CONDUIT TO BE INSTALLED AS DIRECTED BY OR APPROVED BY THE ENGINEER AND IS CONSIDERED INCIDENTAL TO ITEMS 804: FIBER OPTIC CABLE, MISC.:DROP CABLE, 24 STRAND AND ITEM 804: FIBER OPTIC CABLE, MISC.: DROP CABLE, 48 STRAND.
3. NOT TO SCALE.

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FEDERAL PROJECT NUMBER
E036(481)

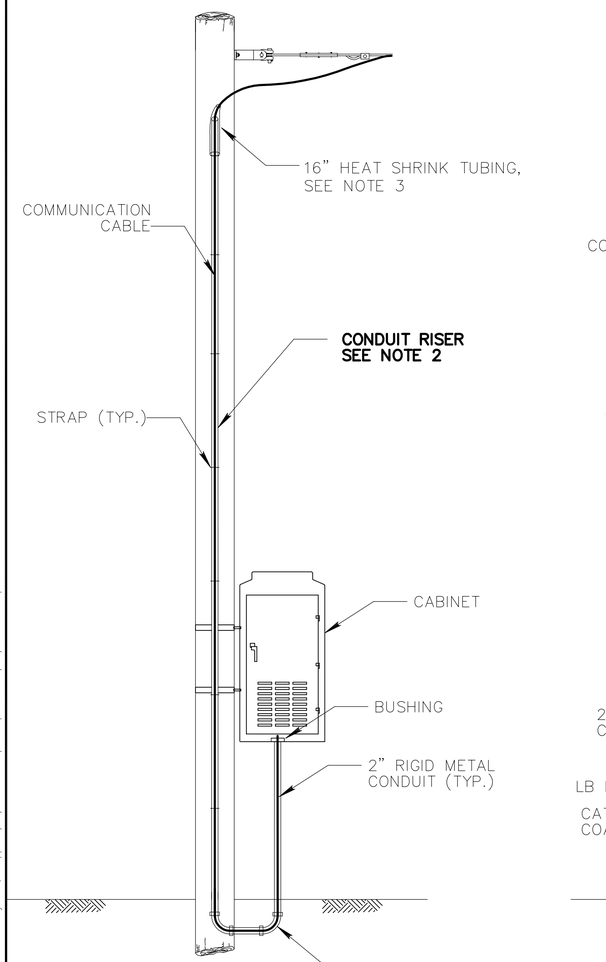
PID NUMBER
13034

CABLE INSTALLATION FROM AERIAL SPAN DETAILS
SIGNAL POLE

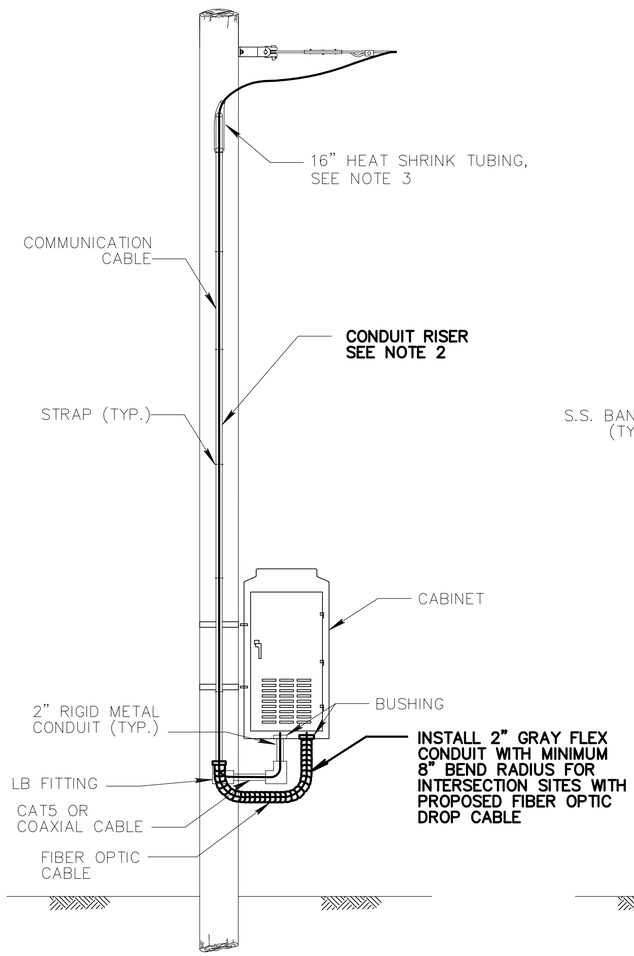
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

41
1107

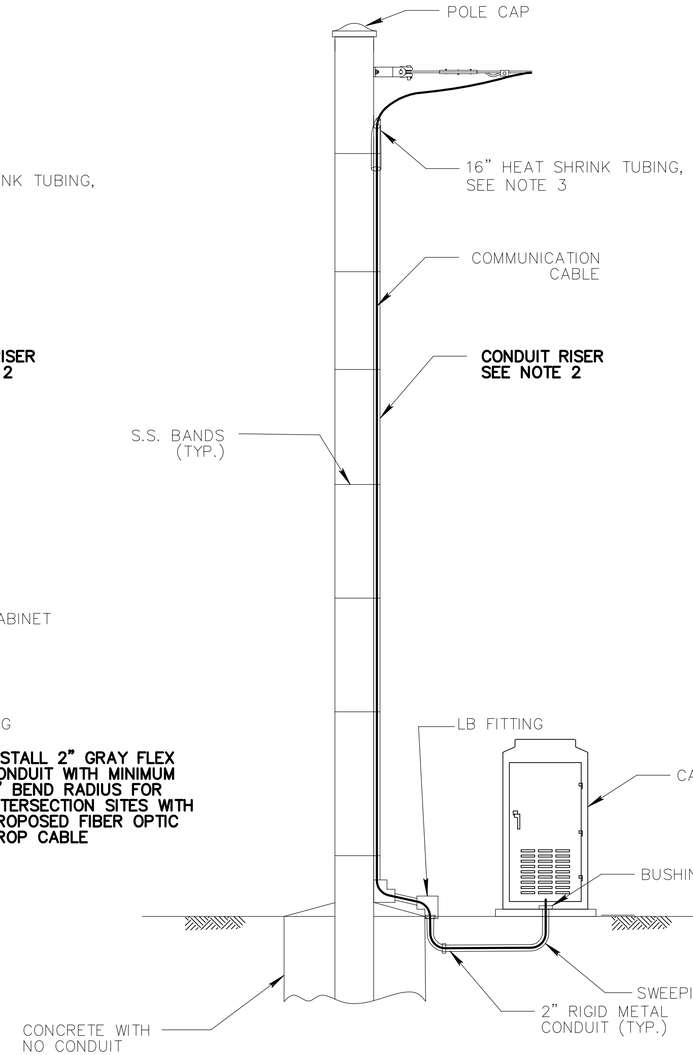
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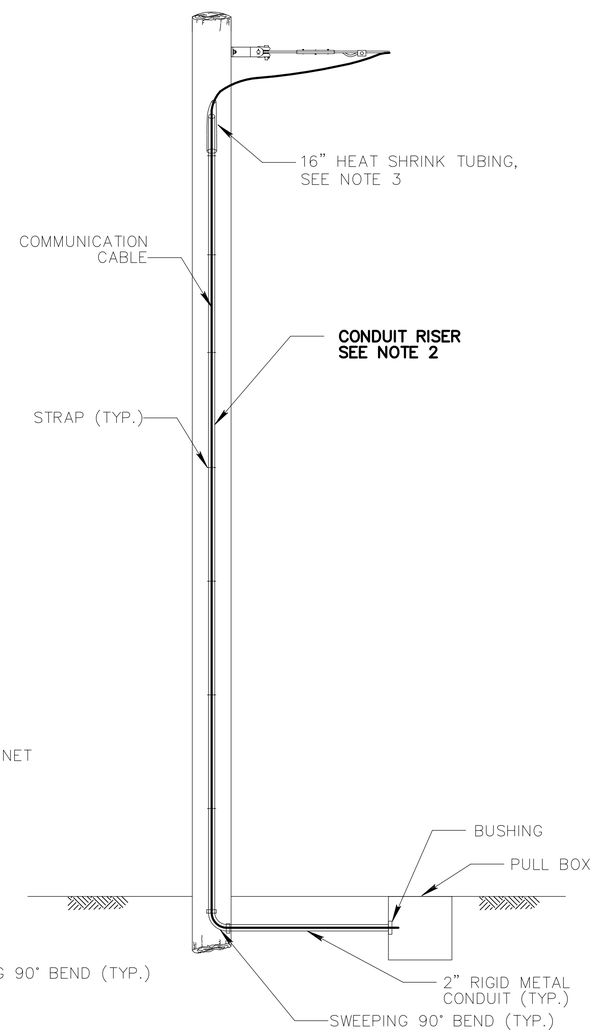
AERIAL SPAN TO
POLE MOUNTED CABINET
AND GROUND



AERIAL SPAN TO
POLE MOUNTED CABINET



AERIAL SPAN TO
GROUND MOUNTED CABINET



AERIAL SPAN TO
PULL BOX

NOTES:

1. FOR CAT5 OR COAXIAL DROP CABLE USE EXISTING WEATHER HEAD IF APPROVED BY PROJECT ENGINEER
2. INSTALL NEW 2" PVC CONDUIT RISER WHEN EXISTING RISER IS TOO FULL TO CONTAIN PROPOSED CABLE AT DIRECTION OF ENGINEER.
3. WHEN HEAT SHRINK TUBING IS TO BE USED, OVERLAP CONDUIT BY 8". SEE SHEET 50 FOR MODIFIED CONDUIT RISER DETAIL.
4. NOT TO SCALE

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E036(481)

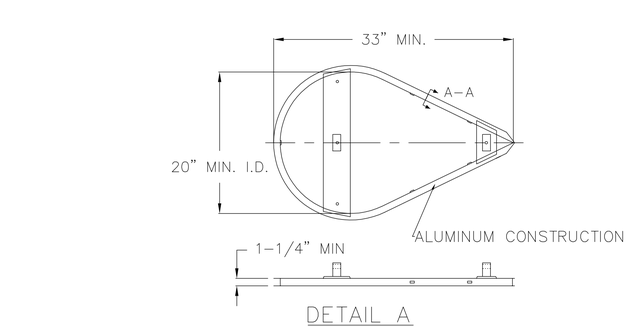
PID NUMBER
13034

CABLE INSTALLATION FROM AERIAL SPAN DETAILS
EMBEDDED/WOOD POLE

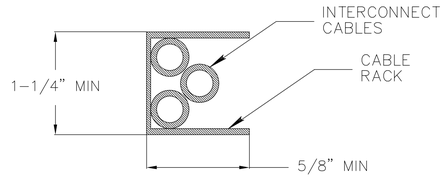
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

42
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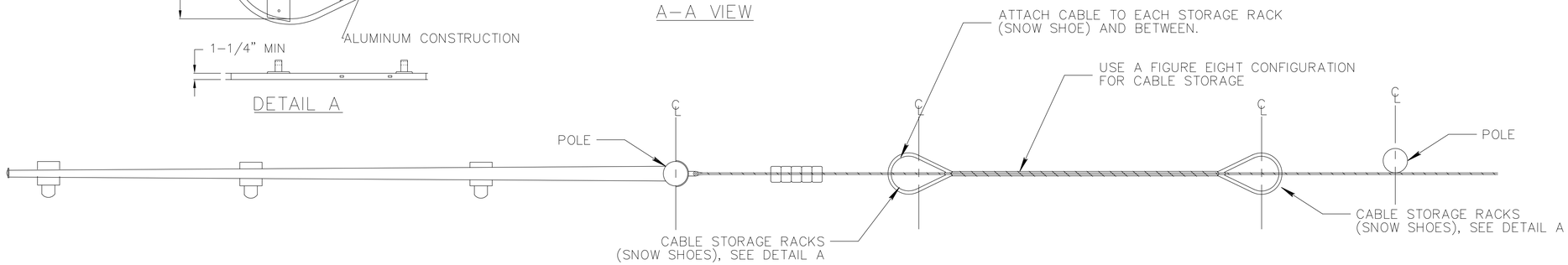
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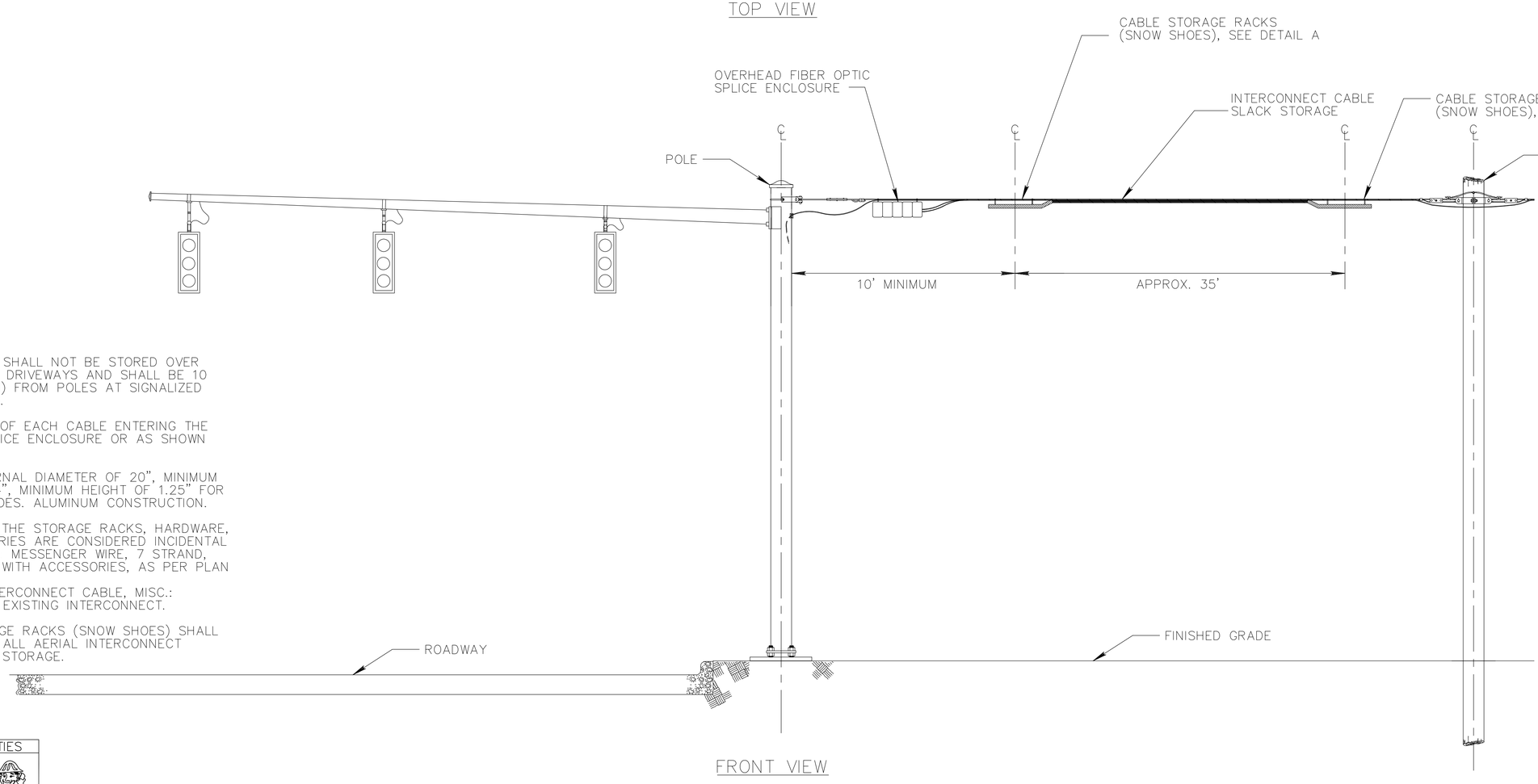
DETAIL A



A–A VIEW



TOP VIEW



FRONT VIEW

NOTES:

1. SPARE CABLE SHALL NOT BE STORED OVER ROADWAYS OR DRIVEWAYS AND SHALL BE 10 FEET (MINIMUM) FROM POLES AT SIGNALIZED INTERSECTIONS.
2. STORE 75 FT OF EACH CABLE ENTERING THE ADJACENT SPLICE ENCLOSURE OR AS SHOWN ON PLANS.
3. MINIMUM INTERNAL DIAMETER OF 20", MINIMUM LENGTH OF 34", MINIMUM HEIGHT OF 1.25" FOR ALL SNOW SHOES. ALUMINUM CONSTRUCTION.
4. THE COST OF THE STORAGE RACKS, HARDWARE, AND ACCESSORIES ARE CONSIDERED INCIDENTAL TO ITEMS 632: MESSENGER WIRE, 7 STRAND, ¼"DIAMTETER, WITH ACCESSORIES, AS PER PLAN AND
   ITEM 632: INTERCONNECT CABLE, MISC.: OVERLASH TO EXISTING INTERCONNECT.
5. CABLE STORAGE RACKS (SNOW SHOES) SHALL BE USED FOR ALL AERIAL INTERCONNECT CABLE SLACK STORAGE.

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PID NUMBER 13034

AERIAL CABLE SLACK STORAGE DETAIL

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

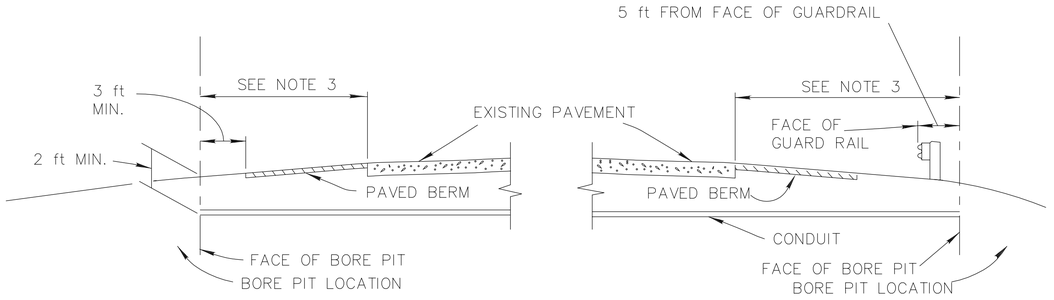
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2762 DR. E

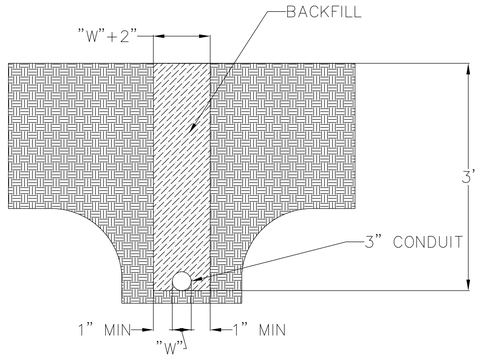
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NOTES

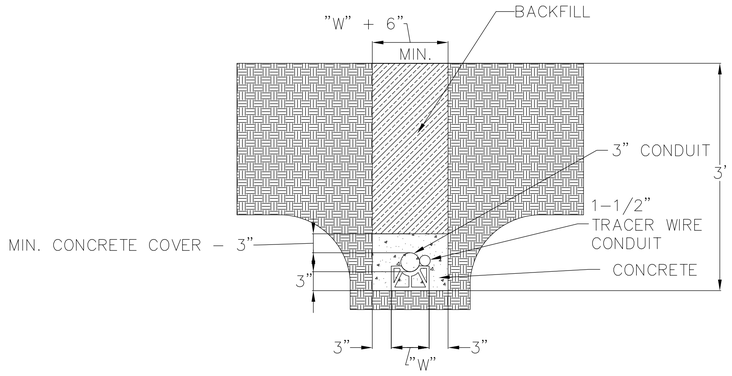
1. RESTORE DISTURBED FACILITIES AND SURFACES TO A CONDITION EQUAL OR BETTER TO THAT EXISTING BEFORE THE WORK STARTED.
2. WHEN UNDERMINING SHOULDER AREAS THAT DO NOT HAVE PAVED BERMS, PROVIDE 3/4 INCH THICK STEEL SURFACE PLATES, CORRUGATED PIPE SLEEVES, SHORING OR OTHER APPROVED MEANS TO PREVENT CAVE–IN. FCDF BACKFILL REQUIRED TO FILL VOIDS.
3. WHEN CONDUIT IS JACKED OR DRILLED UNDER DIVIDED PAVEMENTS, CABLE MAY BE INSTALLED IN A TRENCH THROUGH THE MEDIAN AREA WHEN SPECIFIED IN THE PLANS.
4. FOLLOW CITY OF COLUMBUS STANDARD DRAWING 1441 FOR PAVEMENT AND UTILITY CUT REPAIR STANDARDS.
5. AT LOCATIONS WHERE TRENCHING IN PAVED AREA FOR DISTANCES GREATER THAN 100FT THE CONTRACTOR SHALL REMOVE AND REPLACE THE SURFACE COURSE FOR THE FULL WIDTH OF THE LANE IN WHICH THE TRENCH HAS BEEN CONSTRUCTED.



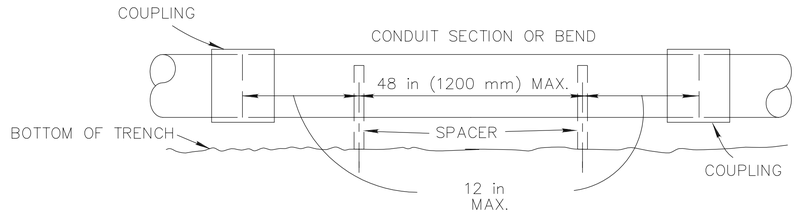
CONDUIT JACKED UNDER PAVEMENT



3" CONDUIT IN TRENCH, BACKFILLED

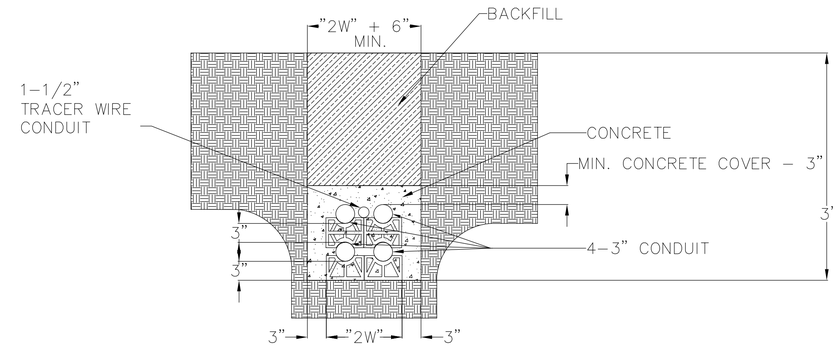


3" CONDUIT ENCASED IN CONCRETE IN TRENCH, BACKFILLED



SIDE ELEVATION

CONCRETE ENCASED CONDUIT



4–3" CONDUIT ENCASED IN CONCRETE IN TRENCH, BACKFILLED

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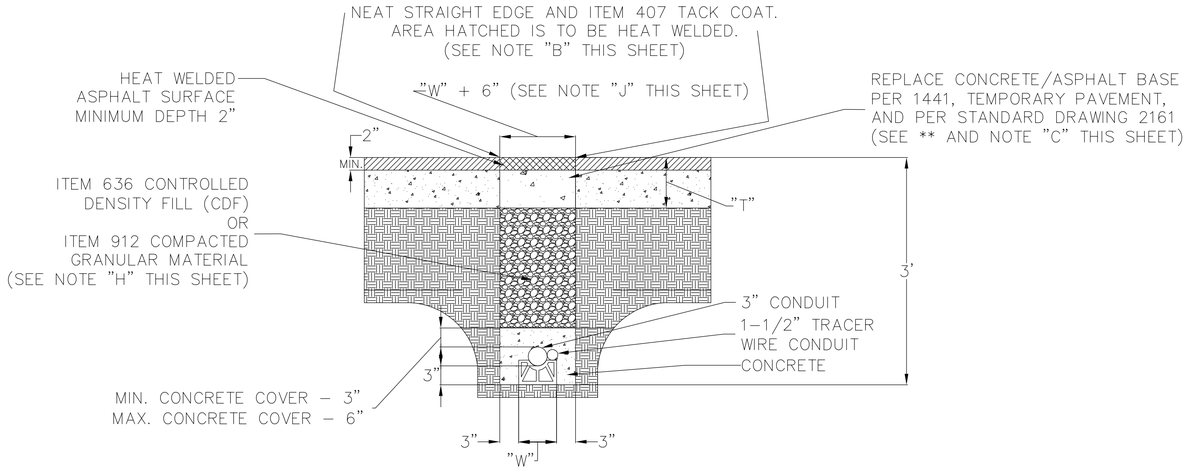
PID NUMBER 13034

ROADWAY CONDUIT DETAILS 1 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

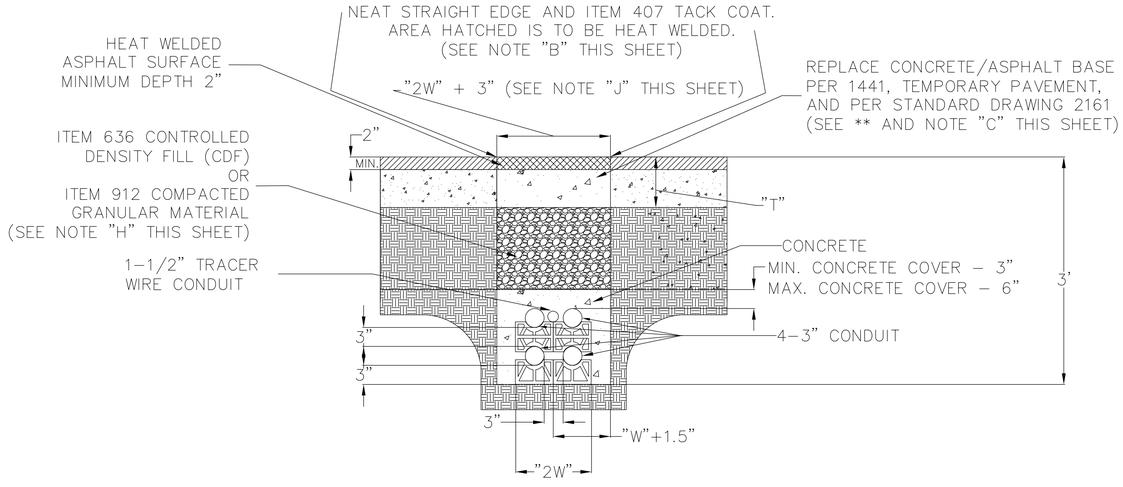
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TYPE 1

STANDARD FLEXIBLE ASPHALT REPAIR WITH HEAT WELD SURFACE (SEE NOTE "B" THIS SHEET)
3" CONDUIT ENCASED, UNDER PAVEMENT



TYPE 1

STANDARD FLEXIBLE ASPHALT REPAIR WITH HEAT WELD SURFACE (SEE NOTE "B" THIS SHEET)
4-3" CONDUIT ENCASED, UNDER PAVEMENT

NOTES

1. RESTORE DISTURBED FACILITIES AND SURFACES TO A CONDITION EQUAL OR BETTER TO THAT EXISTING BEFORE THE WORK STARTED.
2. WHEN UNDERMINING SHOULDER AREAS THAT DO NOT HAVE PAVED BERMS, PROVIDE 3/4 INCH THICK STEEL SURFACE PLATES, CORRUGATED PIPE SLEEVES, SHORING OR OTHER APPROVED MEANS TO PREVENT CAVE-IN. CDF BACKFILL REQUIRED TO FILL VOIDS.
3. WHEN CONDUIT IS JACKED OR DRILLED UNDER DIVIDED PAVEMENTS, CABLE MAY BE INSTALLED IN A TRENCH THROUGH THE MEDIAN AREA WHEN SPECIFIED IN THE PLANS.
4. FOLLOW CITY OF COLUMBUS STANDARD DRAWING 1441 FOR PAVEMENT AND UTILITY CUT REPAIR STANDARDS.
5. AT LOCATIONS WHERE TRENCHING IN PAVED AREA FOR DISTANCES GREATER THAN 100FT THE CONTRACTOR SHALL REMOVE AND REPLACE THE SURFACE COURSE FOR THE FULL WIDTH OF THE LANE IN WHICH THE TRENCH HAS BEEN CONSTRUCTED. THIS CONDITION APPLIES TO THE FOLLOWING LOCATIONS SHOWN IN THE TABLE BELOW:
6. ALL PAVEMENT MARKINGS DISTURBED WITH THE PAVEMENT WORK SHALL BE REPLACED/REPAIRED WITH THERMOPLASTIC PAVEMENT MARKINGS AS APPROVED BY THE ENGINEER AND IS CONSIDERED INCIDENTAL TO THE RESTORATION OF THE PAVEMENT BID ITEMS.

** PAVING STANDARDS FOR LARGE TRENCHES OR PAVING AREAS

A SMALL LATERAL TRENCH CUT OR SMALL PAVEMENT AREA SHALL BE DEFINED AS 5 FT OR LESS IN WIDTH AND/OR NO GREATER THAN 100 FT IN LENGTH. WHEN REPAIR AREAS EXCEED ONE OR BOTH OF THESE DIMENSIONS, THE PAVEMENT REPAIR SECTION SHALL CONFORM TO 2 INCHES OF ITEM 404 ASPHALT CONCRETE ON EITHER 7 INCHES OF ITEM 301 BITUMINOUS AGGREGATE BASE OR ITEM 305 PORTLAND CEMENT CONCRETE BASE. OTHERWISE PLANS SHOULD REFLECT REPLACEMENT OF THE PAVEMENT IN ACCORDANCE WITH CITY STANDARD TYPICAL SECTIONS AND ARE SUBJECT TO APPROVAL BY THE TRANSPORTATION DIVISION.

WHEN A TRENCH EXCEEDS 100 FT IN LENGTH, THE REPAIR SHALL INCLUDE PLANING A FULL LANE WIDTH (OR ANY OTHER LANE WIDTH AS DIRECTED BY THE ENGINEER) TO A DEPTH OF 1 1/4 INCHES FOR THE ENTIRE LENGTH OF THE TRENCH. THE PLANED AREA SHALL THEN BE REPAVED WITH A PAVER IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS. ITEM 413 CRACK SEALING SHALL BE APPLIED TO EXPOSED JOINTS ONCE THE PAVING OPERATION HAS BEEN COMPLETED.
WHEN TRENCHING WORK CROSSES LANES, ALL AFFECTED LANES SHALL REQUIRE PLANING AND RESURFACING AS DESCRIBED ABOVE. THIS WORK SHALL INCLUDE ALL OF THE AFFECTED PAVEMENT AREA.

SPECIAL NOTES PER 1441:

NOTE "B": FOR TYPE I AND TYPE II CUT REPAIRS, THE AREA TO BE HEATWELDED IS TO INCLUDE THE CUT AND EXTEND FOR 6 INCHES BEYOND EACH SIDE OF THE CUT FOR A NOMINAL DEPTH OF 2 INCHES.

NOTE "C": FOR TYPE I AND TYPE II PAVEMENT REPAIR, THE ITEM 404 HOT ASPHALT OR COLD MIX SHALL BE PLACED IN LIFTS NOT EXCEEDING 3 INCHES AND COMPACTED WITH A COMBINATION VIBRATORY PLATE COMPACTOR, OR A VIBRATORY STEEL WHEELED ROLLER WITH A MINIMUM CERTIFIED FORCE OF 2000 POUNDS. IN ALL CASES THE SURFACE LIFT SHALL BE COMPACTED WITH THE VIBRATORY STEEL WHEELED ROLLER. WHEN PLACING HCM COLD MIX FULL DEPTH, MATERIAL TEMPERATURE SHALL BE 70 DEGREES OR ABOVE.

NOTE "H": ITEM 912 - COMPACTED GRANULAR BACKFILL:
THIS METHOD OF BACKFILL CAN ONLY BE USED WITH FULL TIME CITY INSPECTION. AN INSPECTION FEE MUST BE POSTED WHEN THE PERMIT IS ISSUED.

NOTE "J": THE TRENCH WIDTH FOR SMALL PIPES AND CONDUITS SHALL BE OF SUFFICIENT WIDTH TO ALLOW FOR THE PROPER PLACEMENT OF THE BACKFILL MATERIAL. THE PAVEMENT PORTION OF THE TRENCH SHALL BE A MINIMUM OF 2 FT IN WIDTH. THIS IS TO ALLOW FOR THE PROPER COMPACTION OF THE ASPHALT PAVEMENT. IF THE TRENCH FOR PLACING CONDUIT IS NARROWER THAN 2 FT THEN THE PAVEMENT PORTION SHALL BE CUT BACK TO PROVIDE THE 2 FT MINIMUM FOR PAVING OPERATIONS - OR - THE CONTRACTOR MAY REQUEST THE ENGINEER TO ALLOW CDF IN A NARROWER TRENCH INSTEAD OF COMPACTED BACKFILL.

"T": MATCH EXISTING PAVEMENT THICKNESS, HOWEVER, MINIMUM OF 9" ON ALL STREET CUTS.

"W": WIDTH OF CONDUIT SPACER(S).

	LOCATION		LENGTH	WIDTH	ITEM 254, PAVEMENT PLANING, 1-1/4" DEEP	ITEM 407, TACK COAT	ITEM 448, ASPHALT CONCRETE SURFACE COURSE, MEDIUM TRAFFIC, PG70-22M, APP
	FROM	TO	FT	FT	SY	GAL	CY
DUBLIN RD	96+80, 118' LT	105+61, 30' LT	881	11	1077	38	81
GEORGESVILLE RD	68+77, 51' RT	74+00, 35' RT	523	10	582	21	44
GRANT ST	998+09, 06' LT	999+64, 19' RT	155	11	190	7	15
FISHINGER RD	81+51, 40' RT	100+53, 24' RT	1902	11	2325	81	175
TOTAL					4174	315	147

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FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

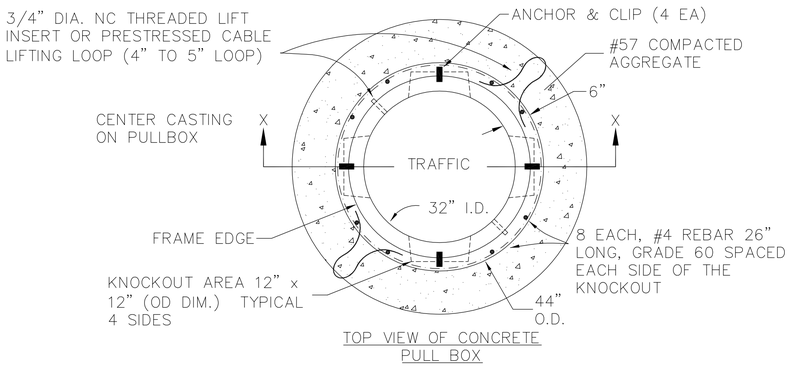
ROADWAY CONDUIT DETAILS 2 OF 2

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

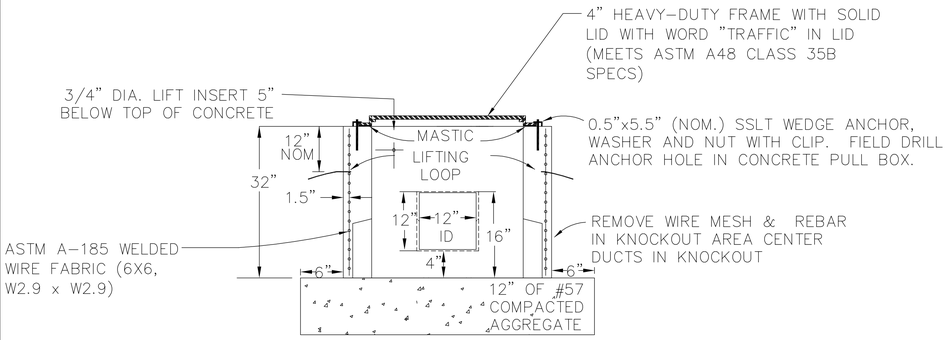
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ITEM 625 PULL BOX, MISC.: 725.08, 32"

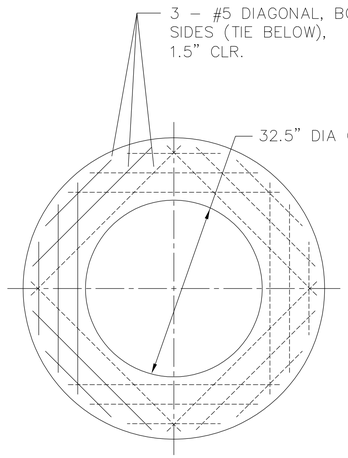


TOP VIEW OF CONCRETE PULL BOX

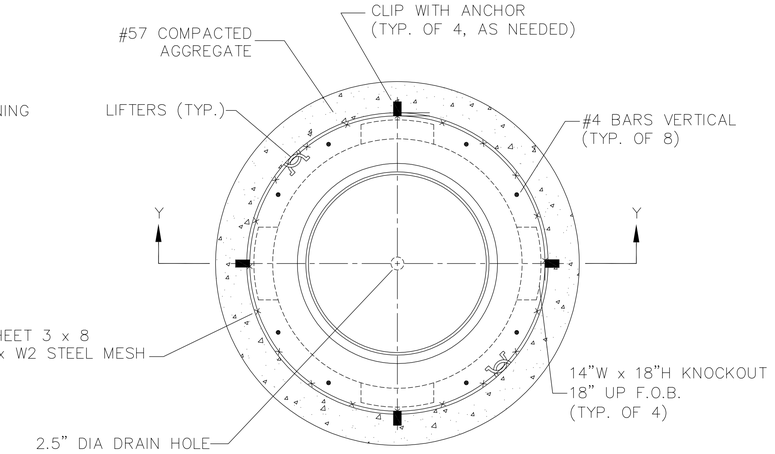


SECTION X-X 32" PULL BOX WITH FRAME AND LID

ITEM 625 PULL BOX, MISC.: 725.08, 48"

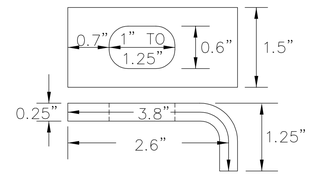


REBAR CONFIGURATION FOR TOP SECTION OF 48"CONCRETE PULL BOX



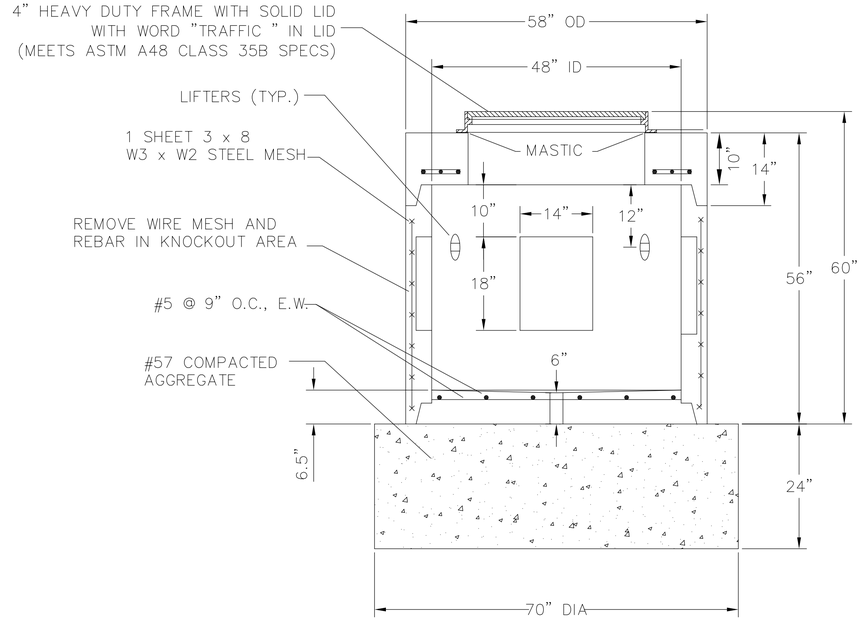
TOP VIEW OF CONCRETE PULL BOX

CONDUIT ENTERS PULLBOX AT 24" ± GROUND LEVEL



CLIP PROFILE (NOM. VALUES)

CLIP WITH ANCHOR FOR 32" & 48" PULLBOX. THE CLIP SHALL BE MADE FROM A36 METAL, HD GALV (ASTM A123) AND IN THE SHAPE SHOWN.



SECTION Y-Y 48" PULL BOX WITH FRAME AND LID

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PID NUMBER 13034

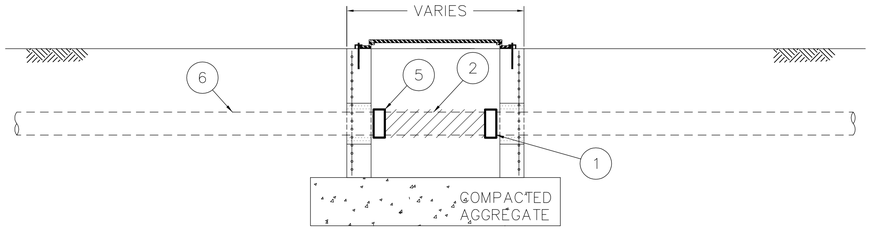
PULL BOX DETAILS 32" AND 48" PULL BOX

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

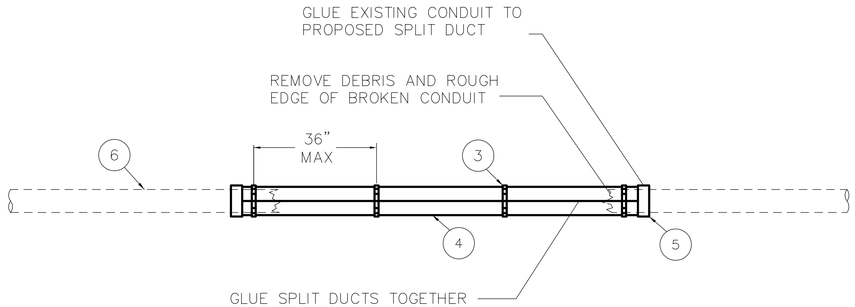
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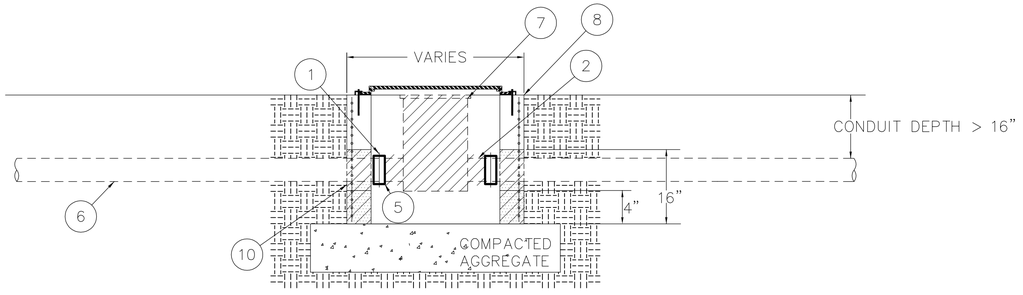
PROPOSED PULL BOX
INTERCEPTING EXISTING
CONDUIT RUN



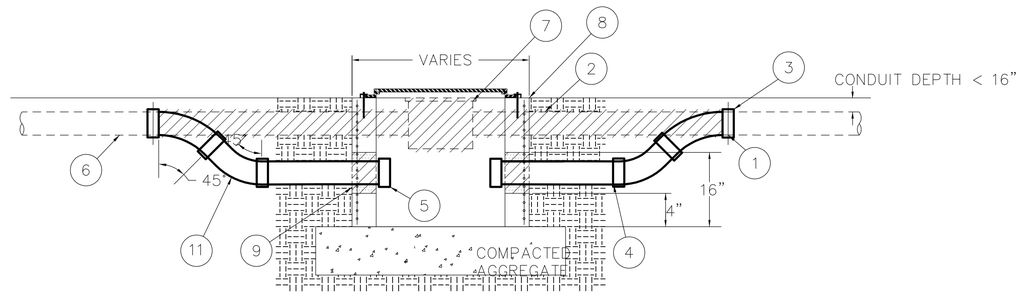
SPLIT DUCT CONDUIT
REPAIR

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

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



EXISTING PULLBOX W/ CONDUIT
>16" BELOW SURFACE GRADE



EXISTING PULLBOX W/
CONDUIT <16" BELOW
SURFACE GRADE

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

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

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FEDERAL PROJECT NUMBER
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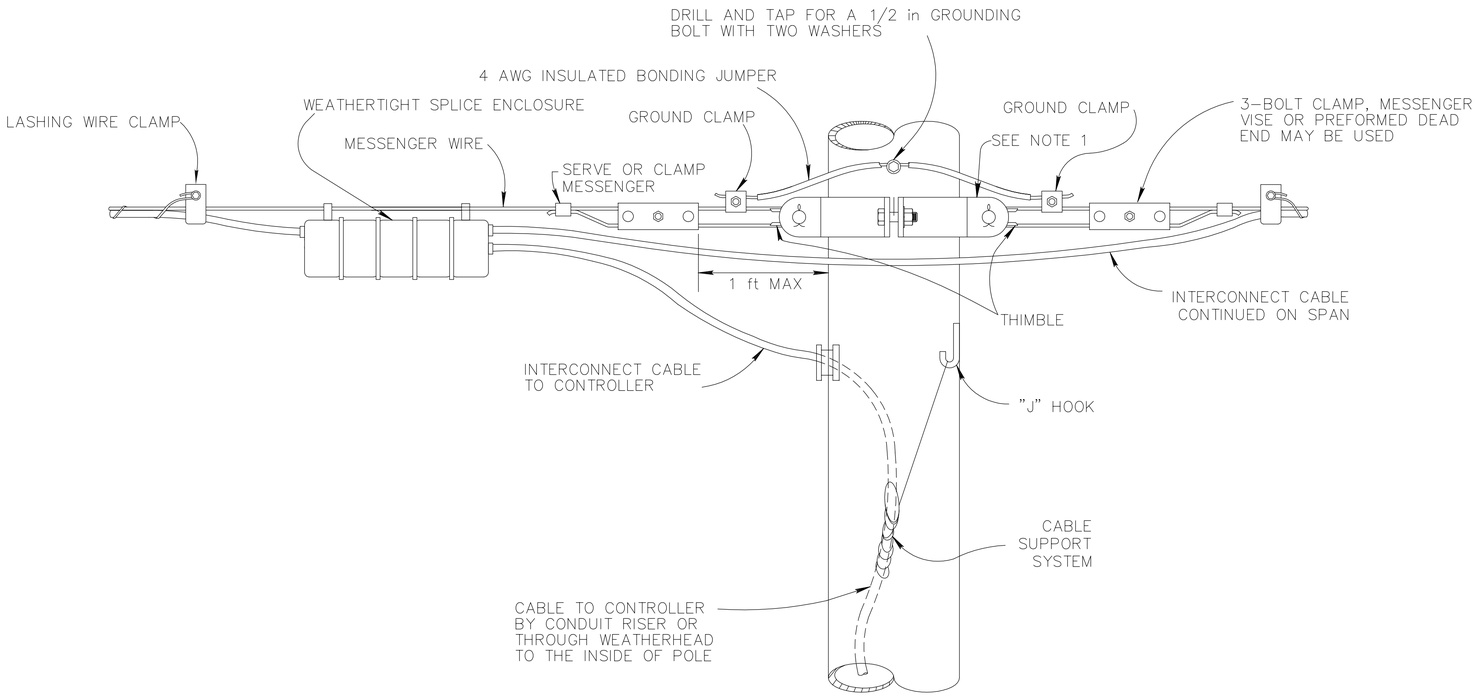
PID NUMBER
13034

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

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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MESSENGER WIRE WITH ACCESSORIES – STRAIN POLE

NOTES

1. MESSENGER WIRE POLE ATTACHMENT SHALL BE BY A POLE CLAMP ON STEEL POLES AND BE A 5/8 INCH THRU-BOLT (OR THIMBLE-EYE BOLT) WITH WASHERS ON WOOD POLES.

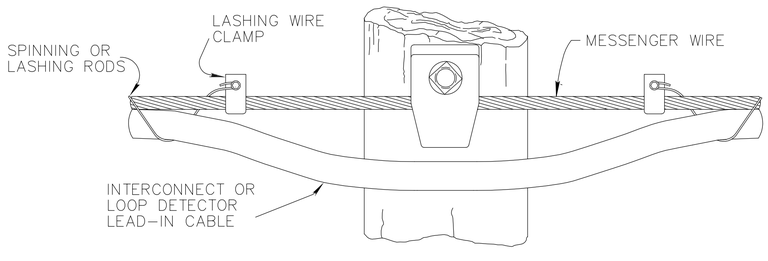
2. THE INTERCONNECT CABLE SHALL HAVE A SAG BETWEEN APPROXIMATELY 1.5% OR MATCH EXISTING UTILITY LINES.

3. THE MINIMUM 3-BOLT SIZE GALVANIZED CLAMP SHALL BE 6 INCHES LONG WITH 1/2 INCH DIAMETER BOLTS. PERFORMED GUY GRIPS SHALL NOT BE USED TO ATTACH THE MESSENGER WIRE TO THE SIGNAL POLES. THEIR USE IS LIMITED TO BULLRING ATTACHMENTS.

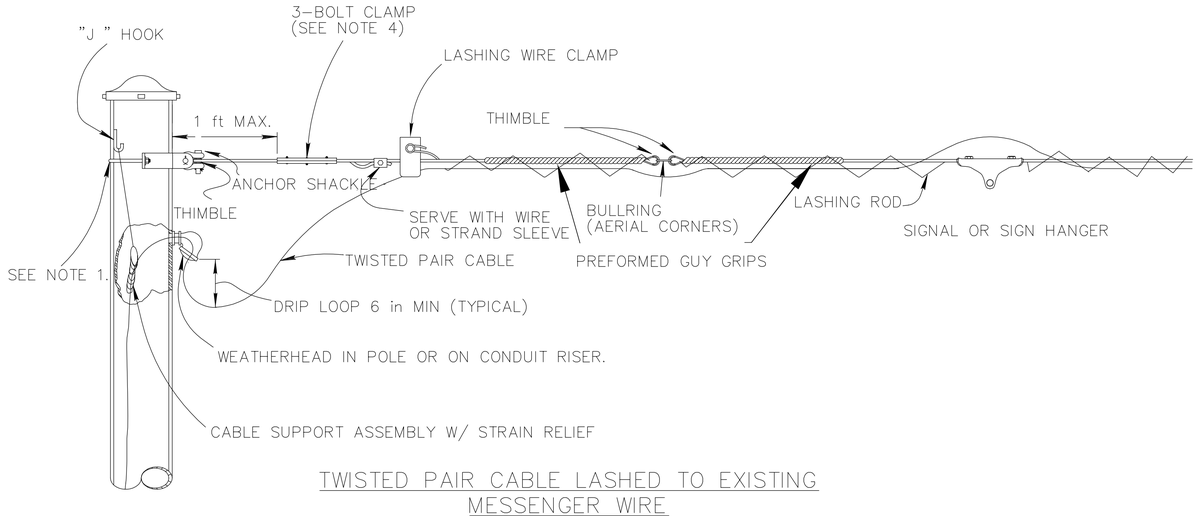
4. THE POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE AND SPLICES SHALL BE PROVIDED BY THE APPROPRIATE POWER UTILITY AS INDICATED ON THE PLANS UNLESS OTHERWISE SPECIFIED.

5. PROVIDE A CLEVIS WITH INSULATOR ATTACHED TO THE WOOD POLE BY MEANS OF A ⅝ INCH THRU-BOLT FOR ATTACHMENT OF THE UTILITY PROVIDED POWER SERVICE AERIAL CABLES WITH MESSENGER WIRE.

6. FOR ALL AERIAL SPANS CROSSING ROADWAYS, THE CONTRACTOR SHALL INSTALL MESSENGER WIRE USING A DOUBLE DEAD END BOLT ASSEMBLY ON BOTH ENDS OF THE MESSENGER WIRE IN PLACE OF A POLE CLAMPS.



MESSENGER WIRE WITH ACCESSORIES – WOOD POLE



TWISTED PAIR CABLE LASHED TO EXISTING MESSENGER WIRE

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

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

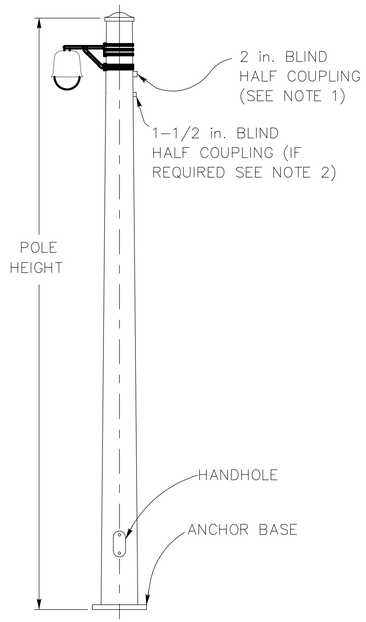
MESSENGER WIRE ATTACHMENT DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

48
1107

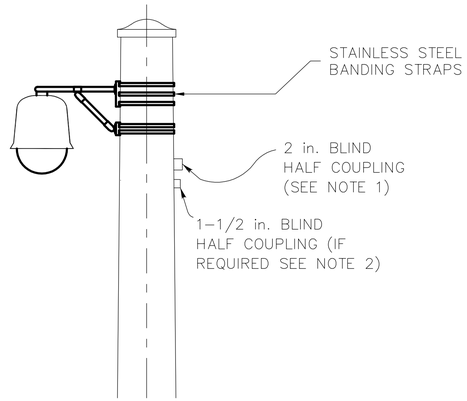
2762 DR. E

J:\Jobs\47857\TECHPROD\Sheets\ST_CTSS_002_Detail4.dwg – MESSENGER WIRE-ATTACH DETAILS layout ~ last saved by: COI, rrapp 09/16/2014 05:51pm ~ printed 06/30/2015 02:04pm



STRAIN POLE

NOT TO SCALE

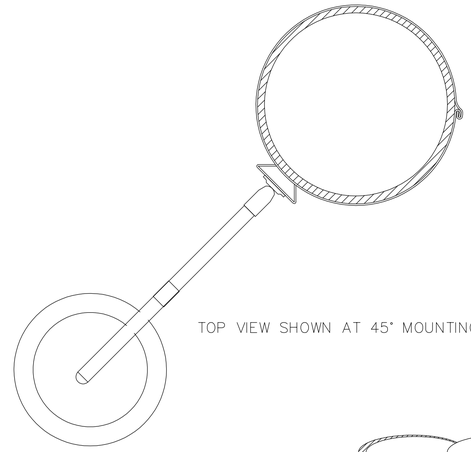


DETAIL STRAIN POLE & BRACKET

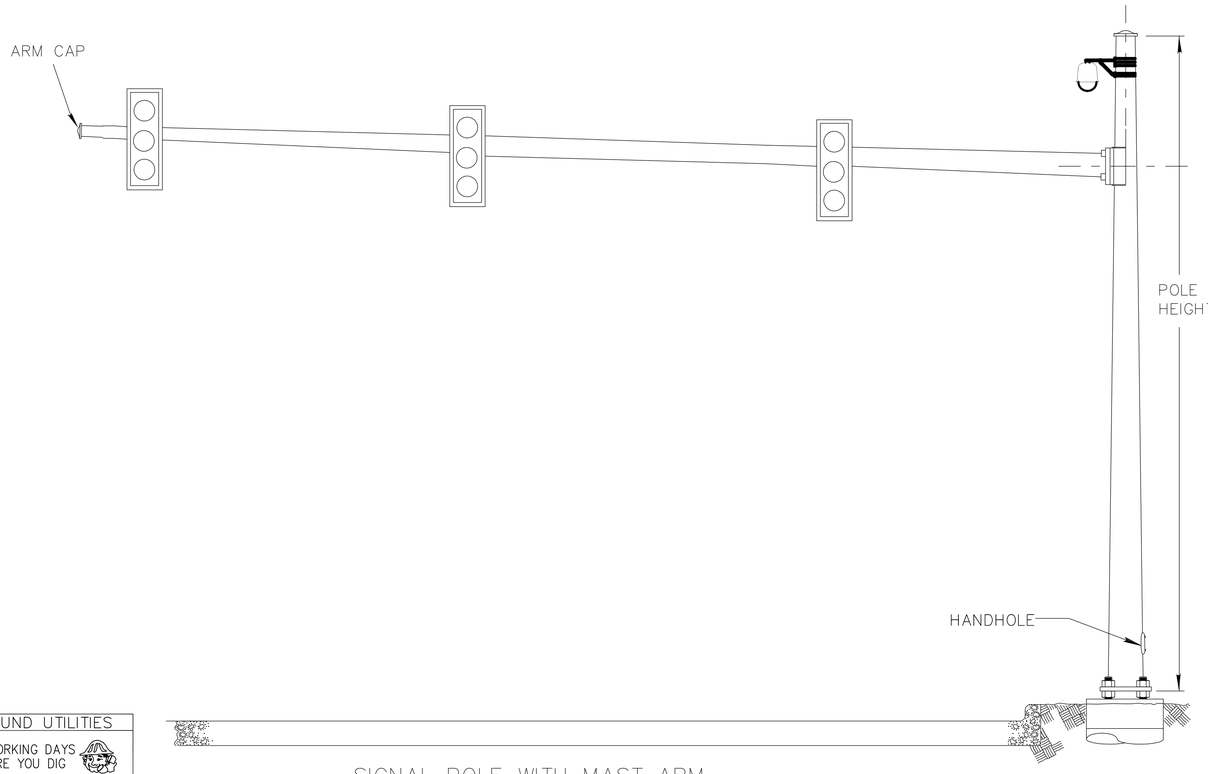
NOT TO SCALE

NOTES

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

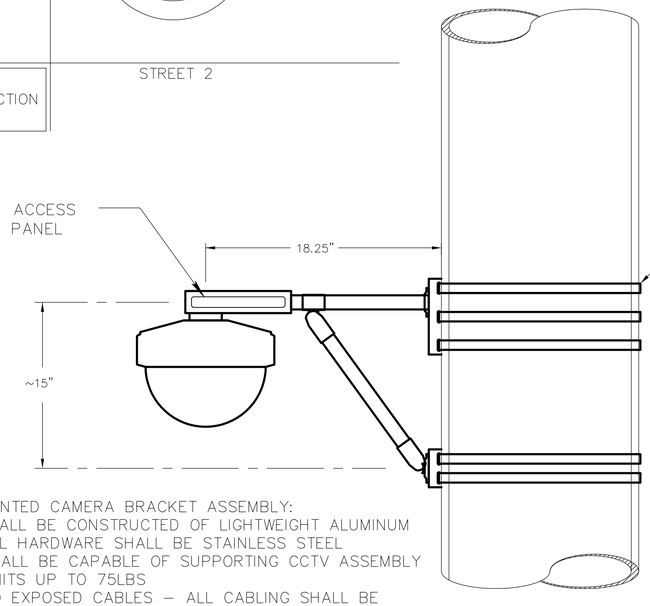


TOP VIEW SHOWN AT 45° MOUNTING POSITION



SIGNAL POLE WITH MAST ARM

NOT TO SCALE



POLE MOUNTED CAMERA BRACKET ASSEMBLY:

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

DETAIL POLE ADAPTERS & BRACKET

NOT TO SCALE

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

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FEDERAL PROJECT NUMBER E036(481)

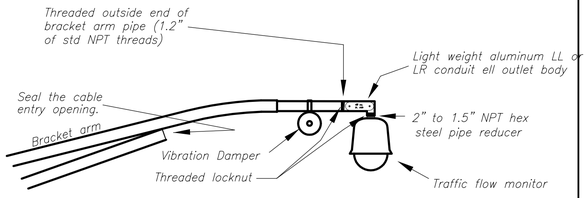
PID NUMBER 13034

STRAIN POLE AND MAST ARM DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

J:\Jobs\47857\TECHPROD\Sheets\ST_CTSS_002_Detail5.dwg – STRAIN POLE AND MAST ARM layout ~ last saved by: CCL rlrapp 09/16/2014 05:51pm ~ printed 06/30/2015 02:04pm

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



All mounting hardware color coated to match bracket arm color.

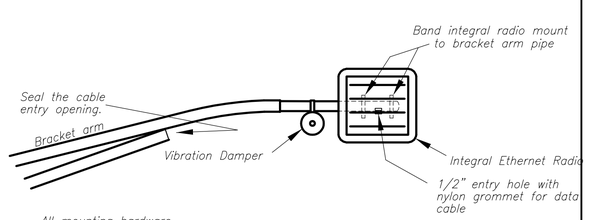
LL/LR Conduit Ell Specs

1) threaded body (NPT) with non-corrosive hardware
2) 48 cu. in. interior area
3) flat cover with solid neoprene gasket
4) cover opening – 6" x 2.4"
5) light weight aluminum body
6) provide #10 rubber stopper for outgoing cable; enlarge stopper hole as needed just enough to fit cable diameter

TRAFFIC FLOW MONITOR MOUNTING PROCEDURE

NOT TO SCALE

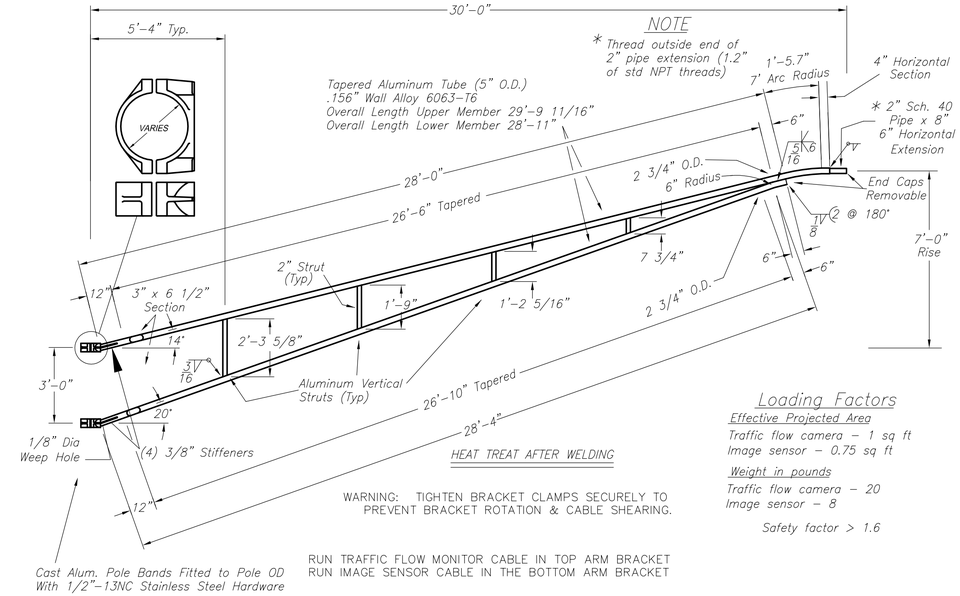
Run the Integral Ethernet Radio cable in the top arm bracket.



All mounting hardware color coated to match bracket arm color.

INTEGRAL ETHERNET RADIO MOUNTING PROCEDURE

NOT TO SCALE



Loading Factors

Effective Projected Area

Traffic flow camera – 1 sq ft
Image sensor – 0.75 sq ft

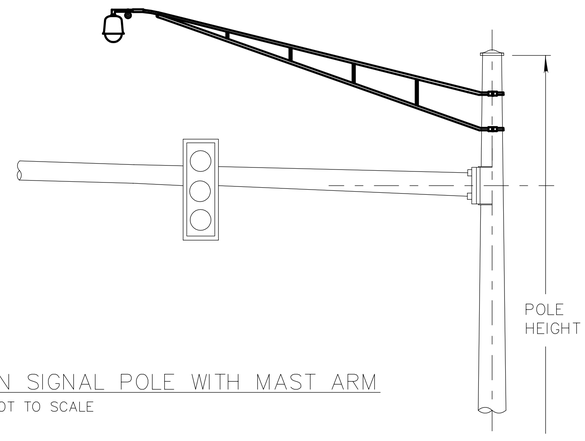
Weight in pounds

Traffic flow camera – 20
Image sensor – 8

Safety factor > 1.6

NOTES

1. THE BRACKETS SHALL BE MADE BY HAPCO, FLAGPOLES, INC. OR APPROVED EQUAL AND MATCH A MODIFIED TRUSS BRACKET B74376 DESIGN.
2. CONTRACTOR TO ORDER BRACKET ARMS MATCHING EXISTING SIGNAL POLE IN STYLE, COLOR, AND TEXTURE. SEE TABLE BELOW FOR EXISTING CONDITIONS.
3. ALL CABLES SHALL BE RUN INSTIDE A BRACKET TUBE. ENTRY HOLES INTO THE SUPPORT POLE SHALL BE FIELD DRILLED PER ODOT SPEC.
4. SEE PLANS FOR BRACKET ORIENTATION
5. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING POLE SIZES PRIOR TO ORDERING POLE BRACKETS.



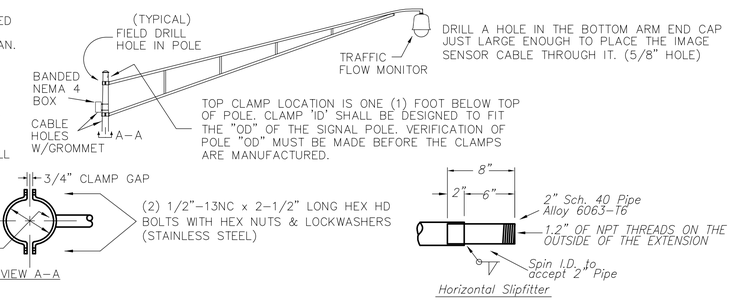
BRACKET ATTACHMENT ON SIGNAL POLE WITH MAST ARM

NOT TO SCALE

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

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

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



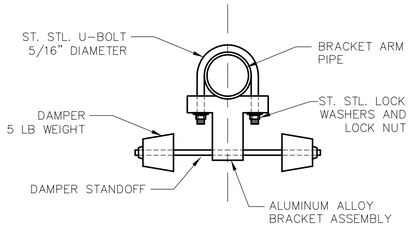
MOUNTING BRACKET ARM

NOT TO SCALE

BRACKET ATTACHMENT LOCATIONS

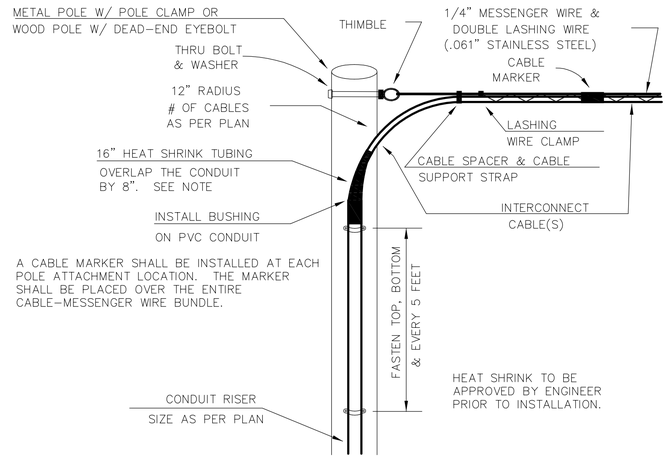
INT ID#	INTERSECTION	EXISTING POLE COLOR	DEVICE
0031	RICH ST. AT CIVIC CENTER BLVD.	BLACK - FED STD 595B #27038	CCTV
0073	MAIN ST. AT SECOND ST.	BLACK - FED STD 595B #27038	CCTV
3228	MORSE RD. AT STELZER RD.	BLUE - FED STD 595B #15048	CCTV
3264	BROAD ST. AT WAGGONER RD.	BROWN - FED STD 595B #20040	CCTV, RADIO
4111	HENDERSON RD. AT KENNY RD.	GALVANIZED	CCTV
4113	HENDERSON RD. AT REED RD.	GALVANIZED	CCTV
4118	BETHEL RD. AT OLENTANGY RIVER RD.	GALVANIZED	CCTV
4120	BETHEL RD. AT GODOWN RD.	GALVANIZED	CCTV
4125	BETHEL RD. AT SAWMILL RD.	GALVANIZED	CCTV
4126	SAWMILL RD. AT SR-161	GALVANIZED	CCTV
4192	BETHEL RD. AT JASONWAY AVE.	GALVANIZED	CCTV
SIG4100	DUBLIN RD. AT FISHINGER RD.	GALVANIZED	RADIO
SIG4855	RODEBAUGH RD. AT WAGGONER RD.	GALVANIZED	RADIO
SIG4890	WAGGONER RD. AT WAGGONER SCHOOL	GALVANIZED	RADIO

WITH THE EXCEPTION OF STAINLESS STEEL HARDWARE (ST. STL.) MATCH ALL DAMPER SURFACES WITH THE EXISTING POLE COLOR AND TEXTURE.



VIBRATION DAMPENER

NOT TO SCALE



MODIFIED CONDUIT RISER DETAIL

NOT TO SCALE

UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800–362–2764

OHIO UTILITIES PROTECTION SERVICE

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

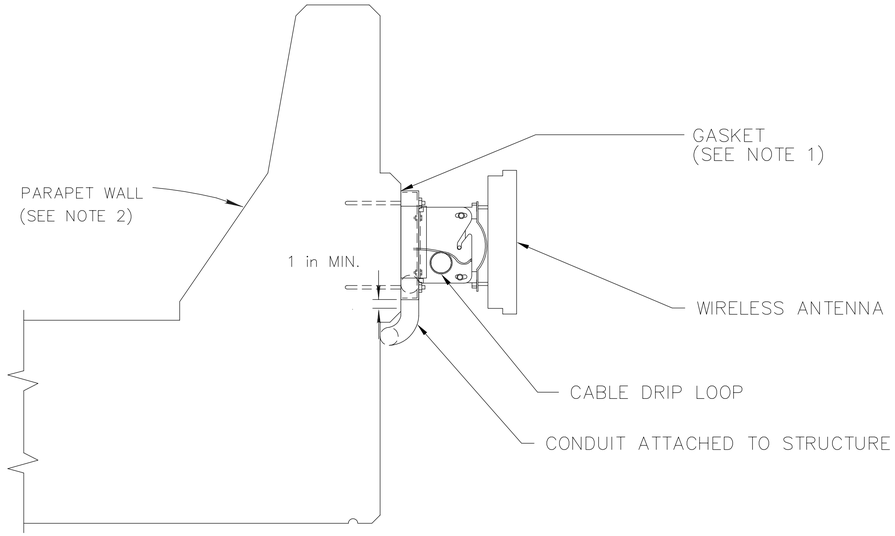
BRACKET ARM AND MODIFIED CONDUIT RISER

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

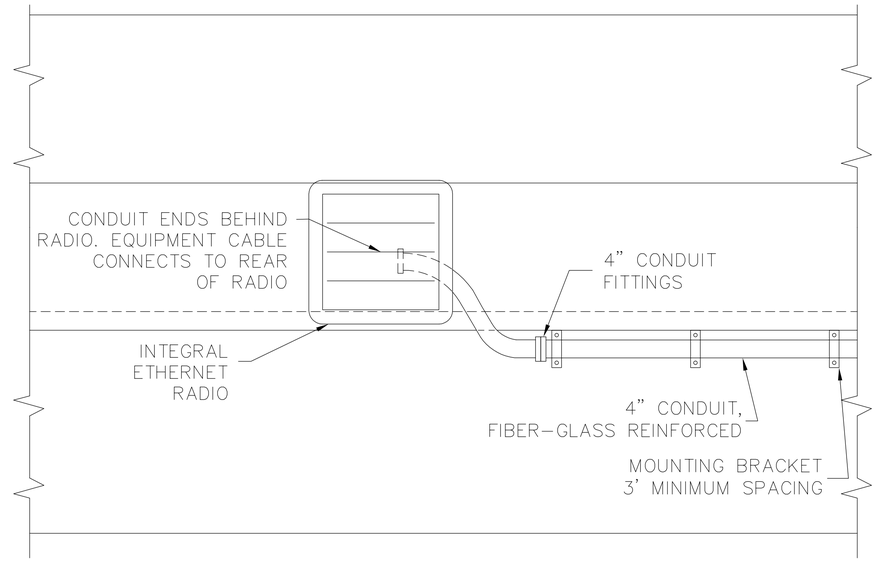
50
1107

2762 DR. E

J:\Jobs\47857\TECHPROD\Sheets\ST_CTSS_002_Detail5.dwg – BRACKET ARM AND MOD CON RISER layout ~ last saved by: CCI, rlrapp 09/16/2014 05:51pm ~ printed 06/30/2015 02:04pm



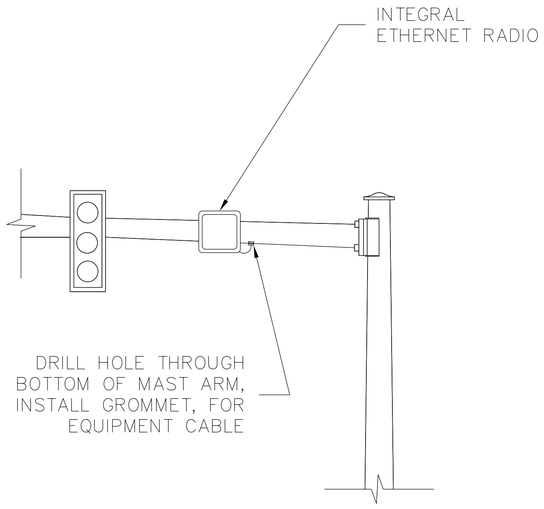
SLAB BRIDGE MOUNT
SIDEVIEW



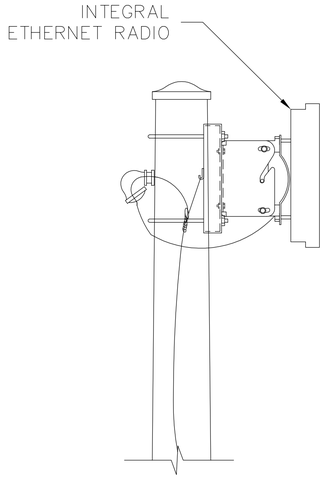
SLAB BRIDGE MOUNT
FRONT VIEW

NOTES

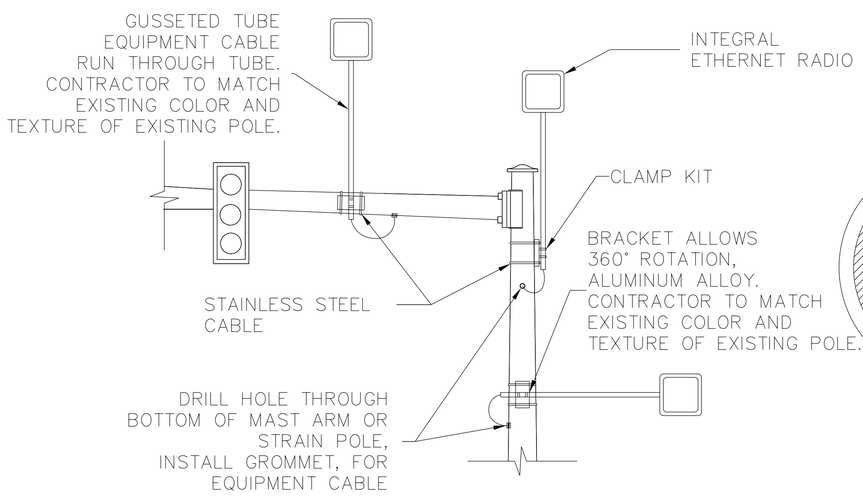
1. PREVENT CONTACT BETWEEN ALUMINUM AND GALVANIZED PARTS WITH A MINIMUM 1/16 INCH THICK CHLOROPRENE GASKET OR APPROVED EQUAL. ALSO INSTALL A GASKET BETWEEN GALVANIZED STEEL AND CONCRETE.
2. PARAPET DESIGN MAY VARY.
3. ANY EQUIPMENT CABLE IN VERTICAL NEEDS SUPPORTED BY GRIP ASSEMBLY.



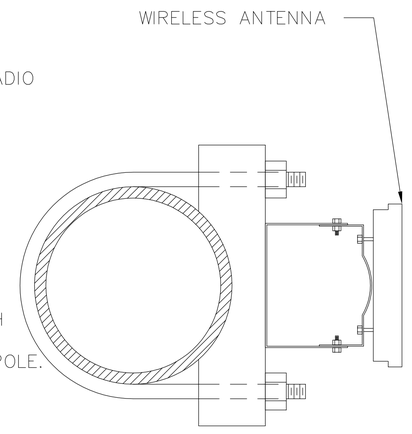
TYPICAL WIRELESS MOUNTING
TO MAST ARM DETAIL
FRONT VIEW



TYPICAL WIRELESS MOUNTING
TO POLE DETAIL
SIDE VIEW



TYPICAL WIRELESS MOUNTING
TO POLE EXTENSION DETAIL
FRONT VIEW



TYPICAL WIRELESS
MOUNTING BRACKET DETAIL
TOP VIEW

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FEDERAL PROJECT NUMBER E036(481)

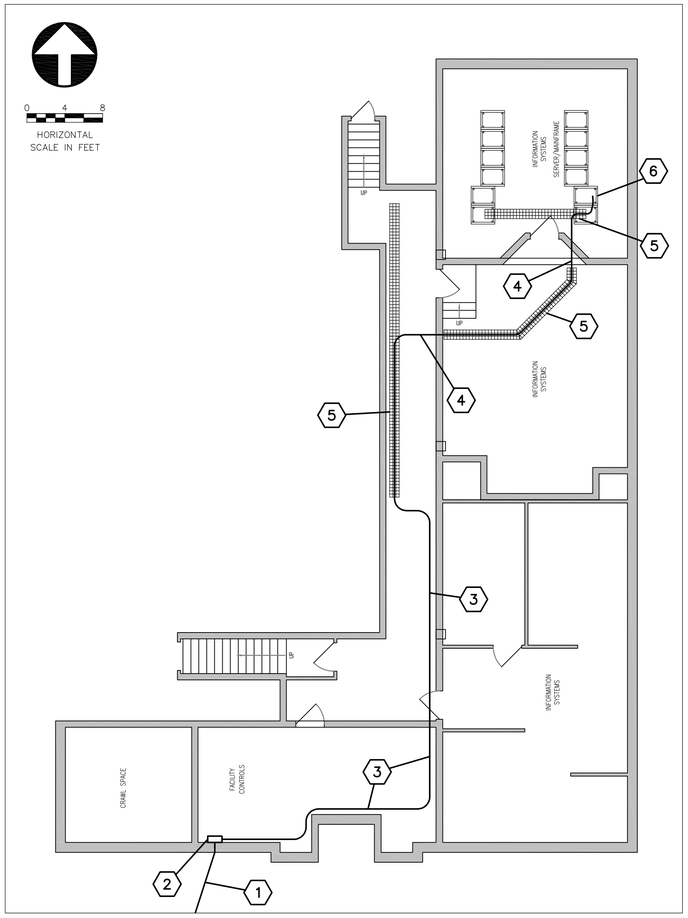
PID NUMBER 13034

WIRELESS MOUNTING DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

51
1107

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FRANKLIN COUNTY ENGINEER OFFICE
BASEMENT LAYOUT – PROPOSED COMMUNICATION CABLE PATH

NOTES:

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

SEE SHEET 473 FOR PLAN SHEET

1. PROPOSED FIBER OPTIC CABLE IN EXISTING 4" CONDUIT (CONNECTS TO SPLICE ENCLOSURE IN EXISTING PULL BOX)
2. EXISTING WALL MOUNTED JUNCTION BOX
3. PROPOSED FIBER OPTIC CABLE STRAPPED TO EXISTING INTERCONNECT
4. PROPOSED FIBER OPTIC CABLE THROUGH WALL AND CEILING SPACE IN EXISTING CONDUIT
5. PROPOSED FIBER OPTIC CABLE IN EXISTING CABLE TRAY
6. EXISTING EQUIPMENT RACK
7. PROPOSED LAYER 3 NETWORK SWITCH WITH SFP OPTICAL TRANSCEIVER
8. PROPOSED CABLE MANAGEMENT RACK
9. PROPOSED 144 TERMINATION PATCH PANEL
10. SFP FIBER OPTIC TRANSCEIVER MODULE

6 EXISTING EQUIPMENT RACK

9 144 TERMINATION FIBER OPTIC PATCH PANEL

2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

FRANKLIN COUNTY ENGINEER OFFICE

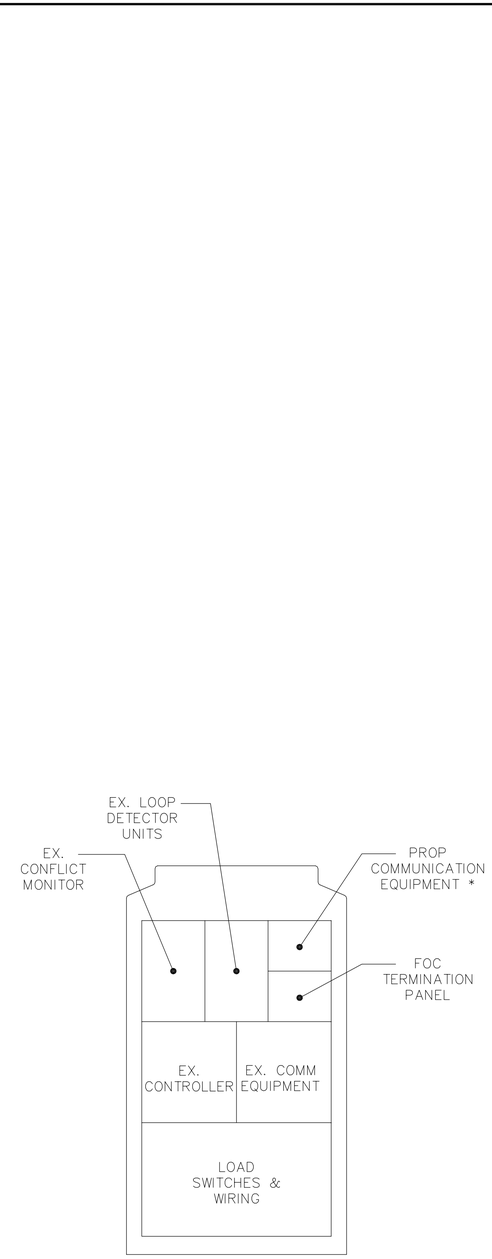
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

52
1107

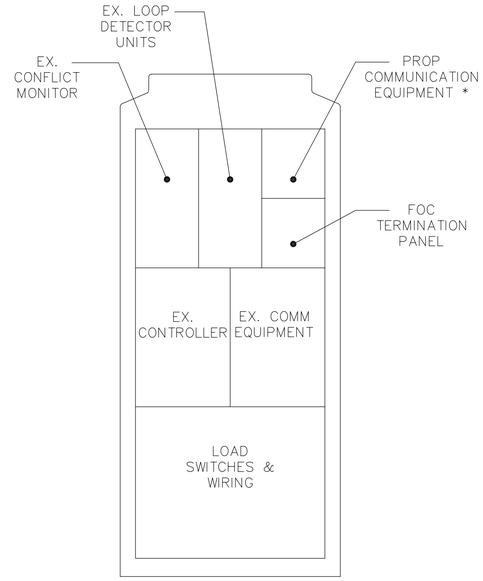
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TYPICAL DETAIL FOR "P" CABINET
44"W x 55" TALL



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



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

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

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OHIO UTILITIES PROTECTION SERVICE

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

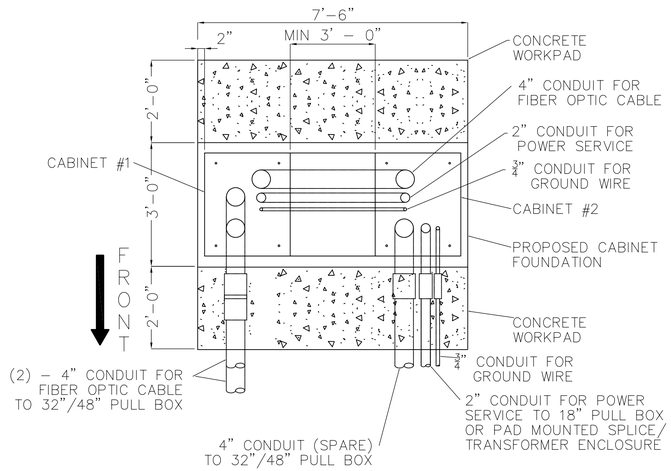
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

PID NUMBER
13034

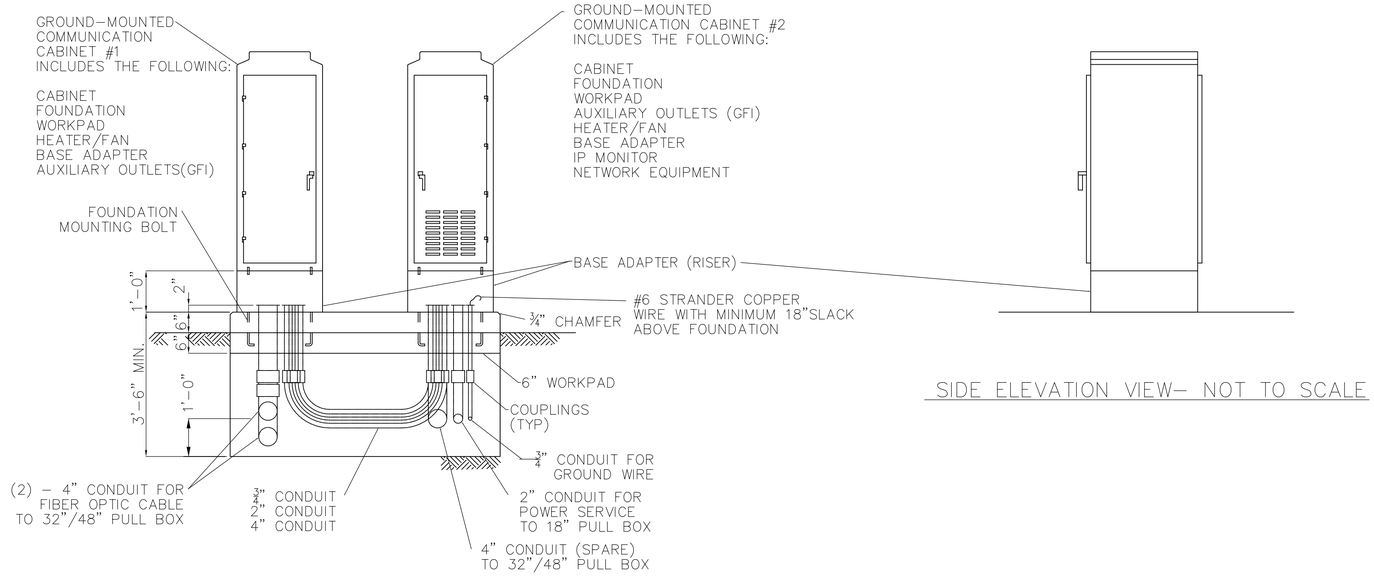
FEDERAL PROJECT NUMBER
E036(481)

53
1107

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PLAN VIEW - NOT TO SCALE



ELEVATION VIEW - NOT TO SCALE

SIDE ELEVATION VIEW- NOT TO SCALE

PROPOSED COMMUNICATION NODE CABINET DETAILS
APPLICABLE TO SHEETS:
520, 570, 603, 604, 647, 653, 663, & 695

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OHIO UTILITIES PROTECTION SERVICE

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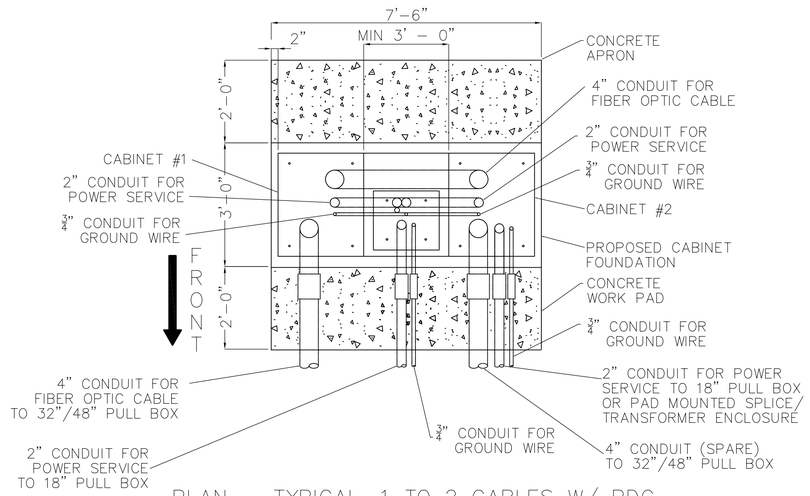
FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

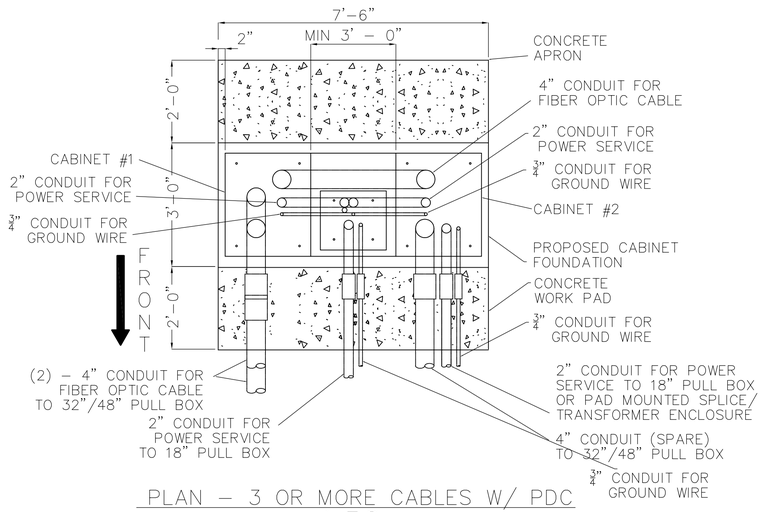
COMMUNICATIONS NODE CABINET DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

2762 DR. E



PLAN – TYPICAL, 1 TO 2 CABLES W/ PDC
N.T.S.



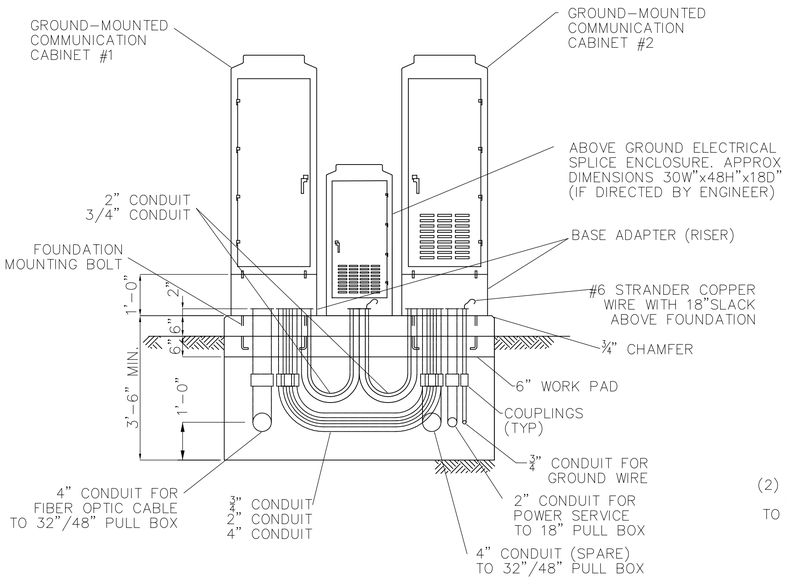
PLAN – 3 OR MORE CABLES W/ PDC
N.T.S.

GROUND–MOUNTED COMMUNICATION CABINET #1 PAY ITEM INCLUDES THE FOLLOWING:

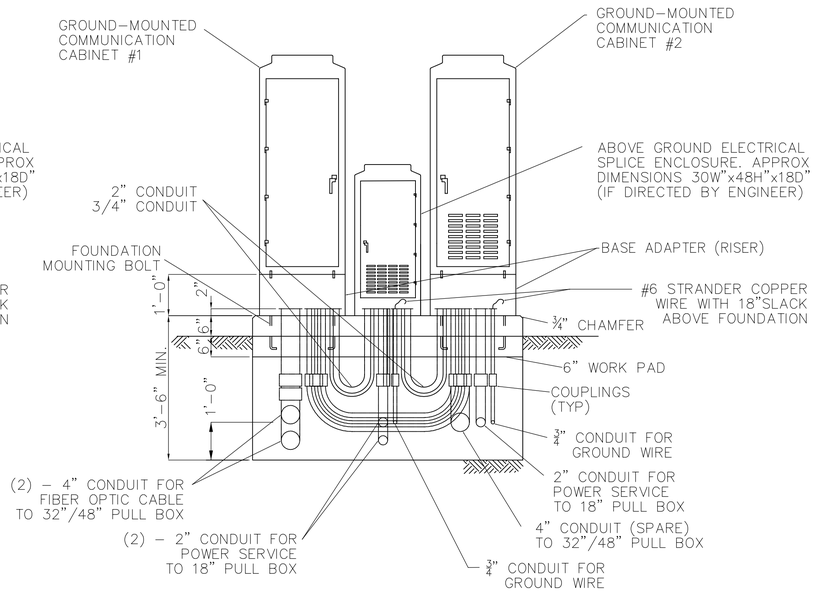
CABINET
FOUNDATION
WORK PAD
HEATER/FAN
BASE ADAPTER

GROUND–MOUNTED COMMUNICATION CABINET #2 PAY ITEM INCLUDES THE FOLLOWING:

CABINET
FOUNDATION
WORK PAD
LAYER THREE SWITCH
UPS
AUXILIARY OUTLETS
HEATER/FAN
BASE ADAPTER



ELEVATION – TYPICAL, 1 TO 2 CABLES W/ PDC
N.T.S.



ELEVATION – 3 OR MORE CABLES W/ PDC
N.T.S.

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FEDERAL PROJECT NUMBER E036(481)

PID NUMBER 13034

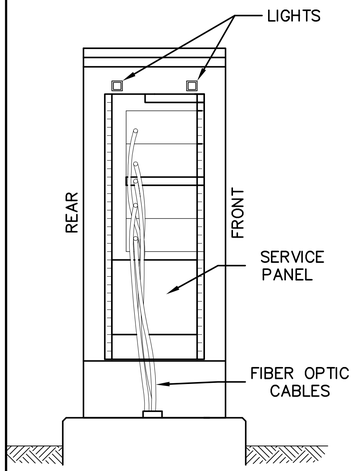
COMMUNICATIONS NODE CABINET DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

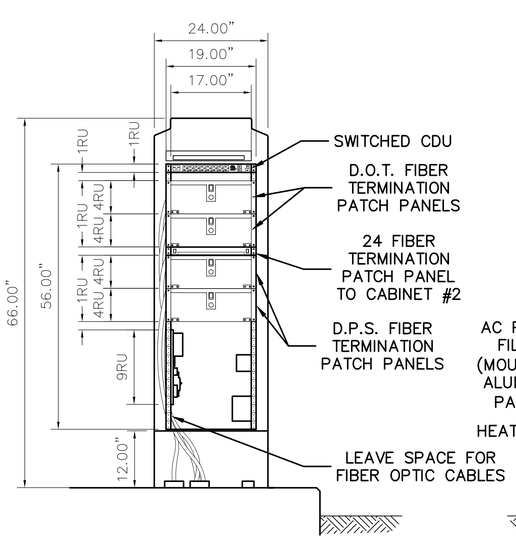
55
1107

2762 DR. E

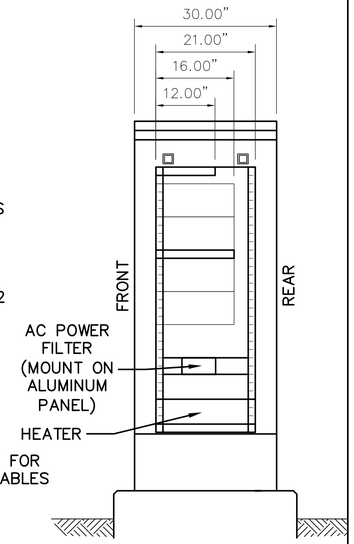
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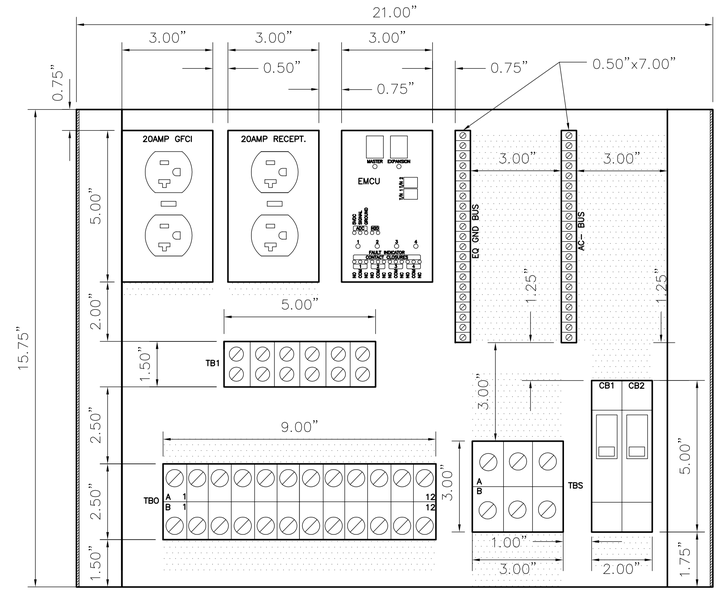
LEFT SIDE



FRONT

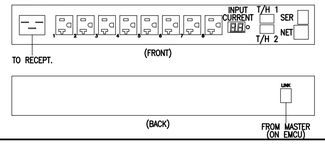


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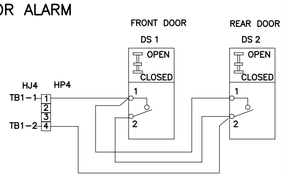


SERVICE PANEL LAYOUT

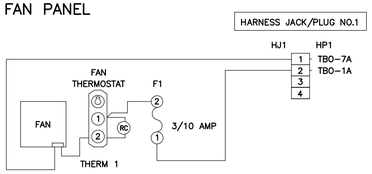
SWITCHED CDU



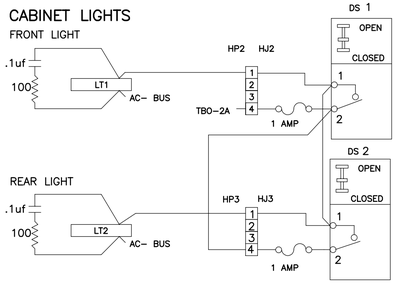
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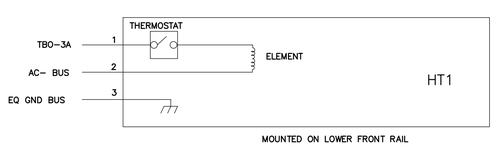
FAN PANEL



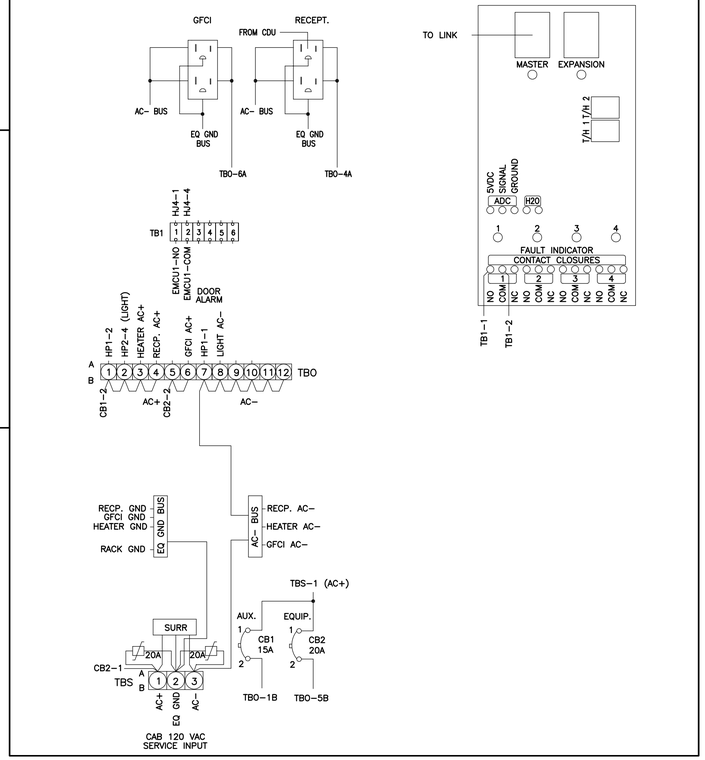
CABINET LIGHTS



HEATER



SERVICE PANEL



EMCU

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FEDERAL PROJECT NUMBER
E036(481)

PID NUMBER
13034

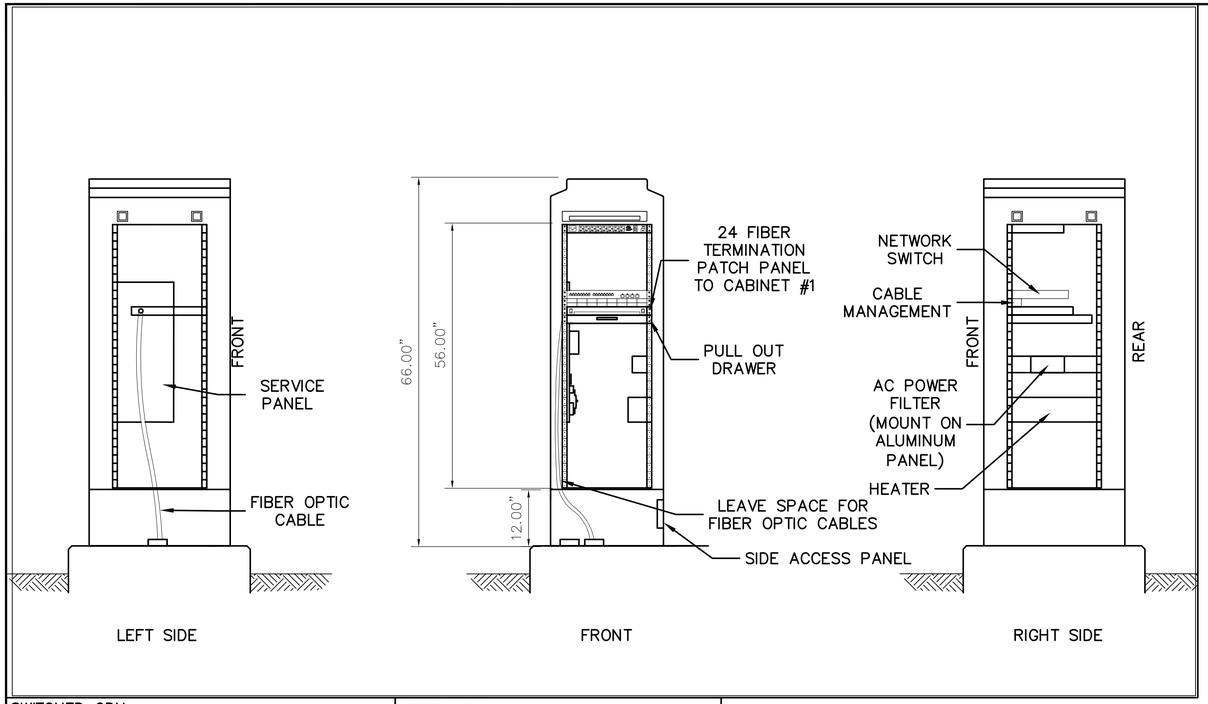
COMMUNICATIONS CABINET #1 LAYOUT

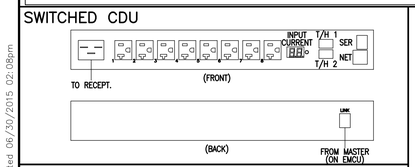
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

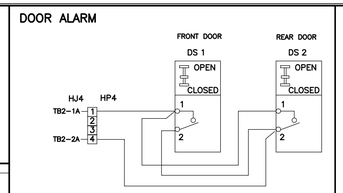
2762 DR. E

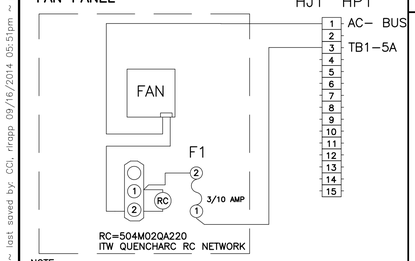
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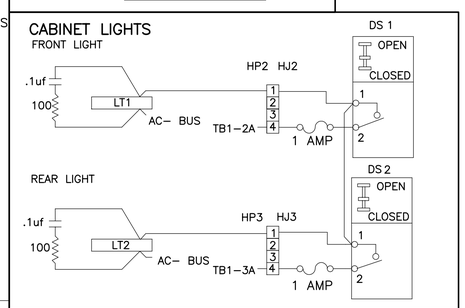
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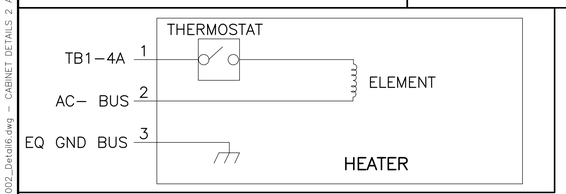


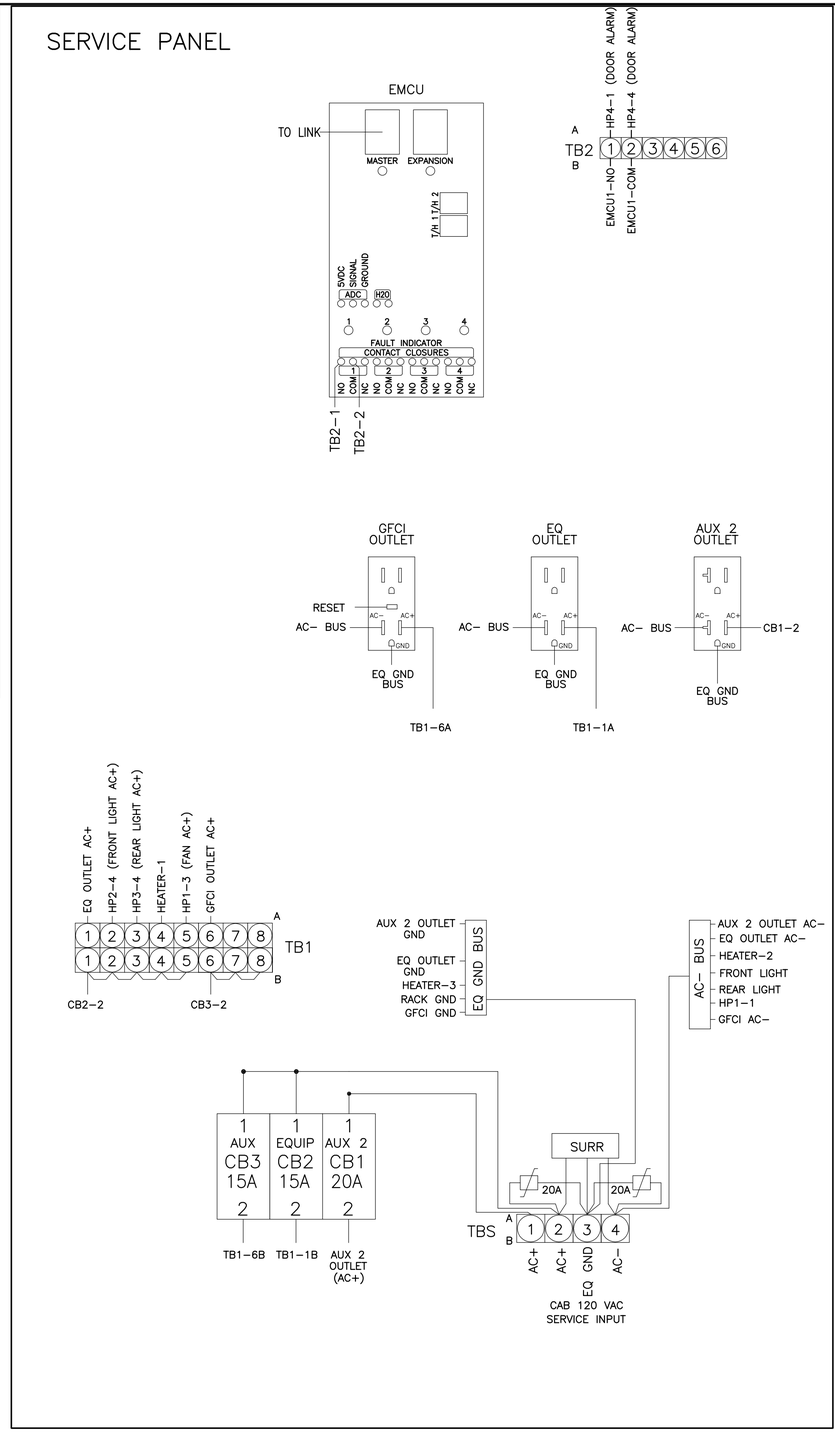












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2762 DR. E

FEDERAL PROJECT NUMBER EO36(481)

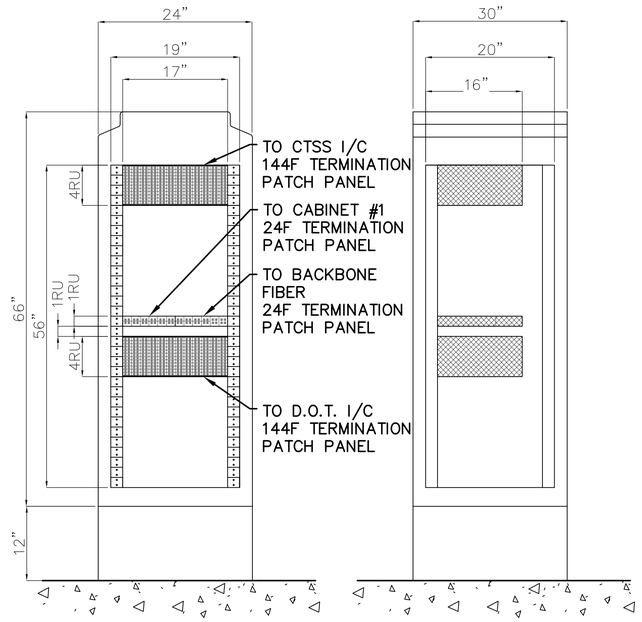
PID NUMBER 13034

COMMUNICATIONS NODE CABINET #2 LAYOUT

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

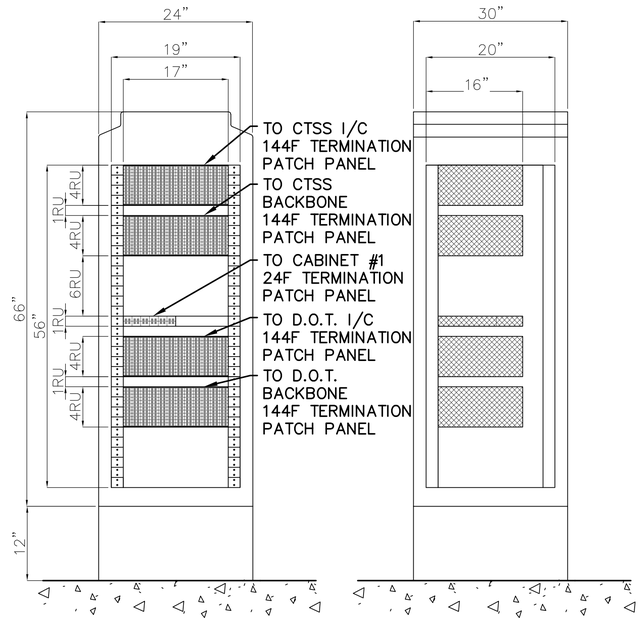
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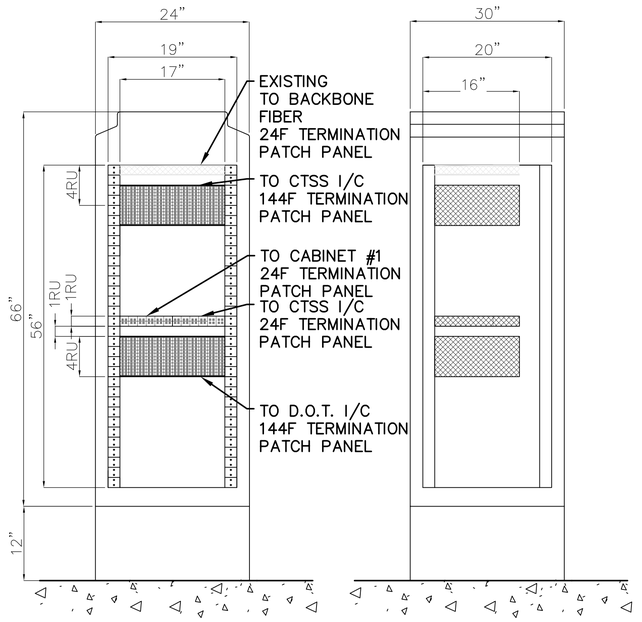
FRONT VIEW SIDE VIEW

DETAIL 'A'



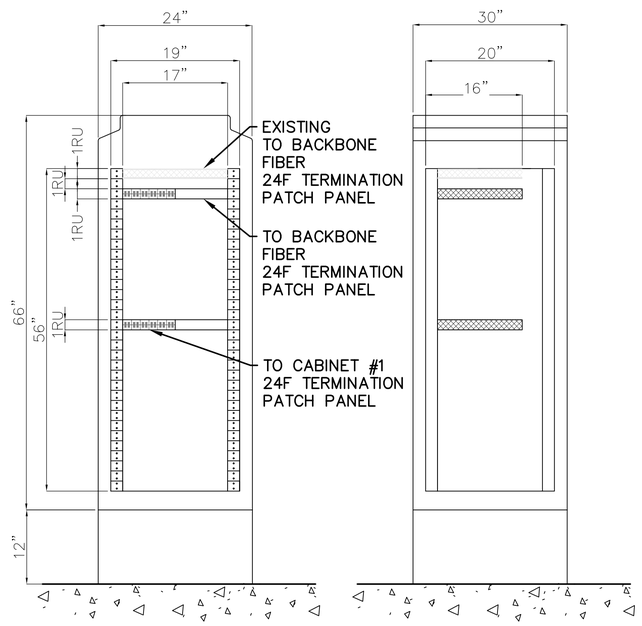
FRONT VIEW SIDE VIEW

DETAIL 'B'



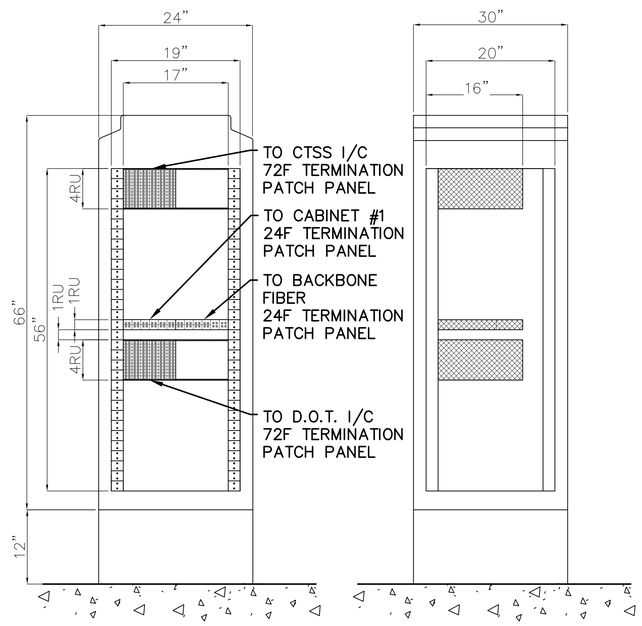
FRONT VIEW SIDE VIEW

DETAIL 'C'



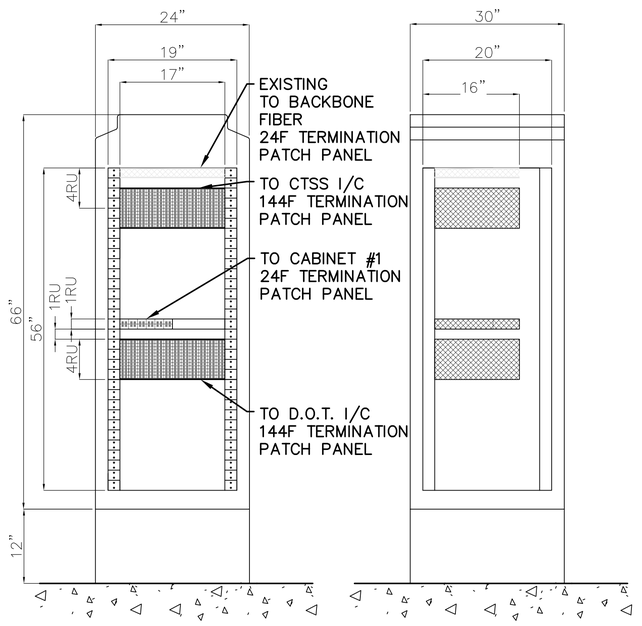
FRONT VIEW SIDE VIEW

DETAIL 'D'



FRONT VIEW SIDE VIEW

DETAIL 'E'



FRONT VIEW SIDE VIEW

DETAIL 'F'

NOTES

1. 1 RU = 1.75"
2. ALL FIBER OPTIC TERMINATIONS TO USE LC CONNECTORS
3. D.O.T. – COLUMBUS DEPARTMENT OF TECHNOLOGY

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2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

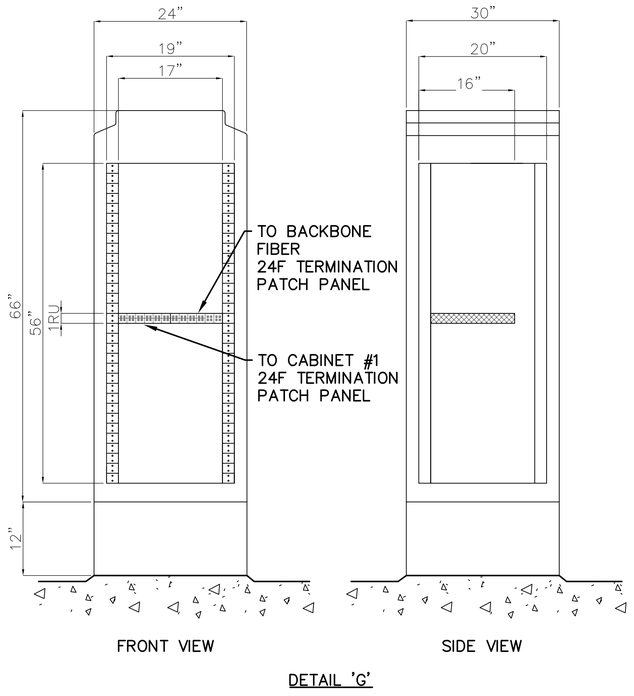
PID NUMBER 13034

COMMUNICATION NODE SHEET
TERMINATION PANEL INDEX

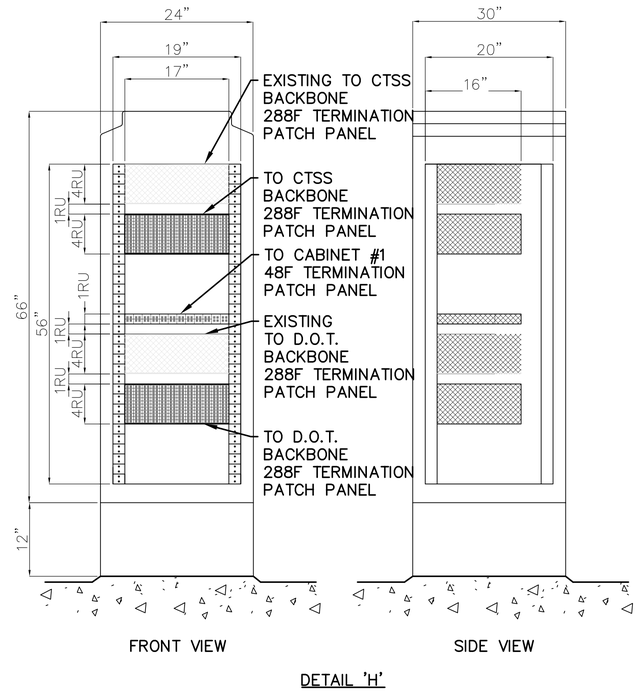
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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1107

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DETAIL 'G'



DETAIL 'H'

NODE SHEET INDEX

NODE #	MAJOR HIGHWAY	SECONDARY ROAD	PLAN SHEET #	COMM.. SHEET #	DETAIL TYPE
071116.2	I-71	MORSE RD	520	1080	'A'
270004.5	I-270	GEORGESVILLE RD	653	1082	'B'
270008.7	I-70	I-270 (WEST)	656	1084	'D'
270012.6	I-270	CEMETERY RD	714	1086	'E'
270015.6	I-270	TUTTLE CROSSING BLVD	663	1088	'C'
270019.8	I-270	SAWMILL RD	677	1090	'F'
270023.6	I-270	US-23 (NORTH)	603	1092	'G'
270027.7	I-270	CLEVELAND AVE	570	1094	'A'
270032.3	I-270	MORSE RD	549	1096	'F'
270037.4	I-270	HAMILTON RD	604	1098	'G'
270039.5	I-270	E. BROAD ST	605	1100	'F'
315001.3	SR-315	DUBLIN RD	475	1102	'H'
315007.8	SR-315	HENDERSON RD	711	1104	'F'
315008.6	SR-315	BETHEL RD	694	1106	'A'

NOTES

1. 1 RU = 1.75"
2. ALL FIBER OPTIC TERMINATIONS TO USE LC CONNECTORS
3. D.O.T. – COLUMBUS DEPARTMENT OF TECHNOLOGY

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2762 DR. E

FEDERAL PROJECT NUMBER E036(481)

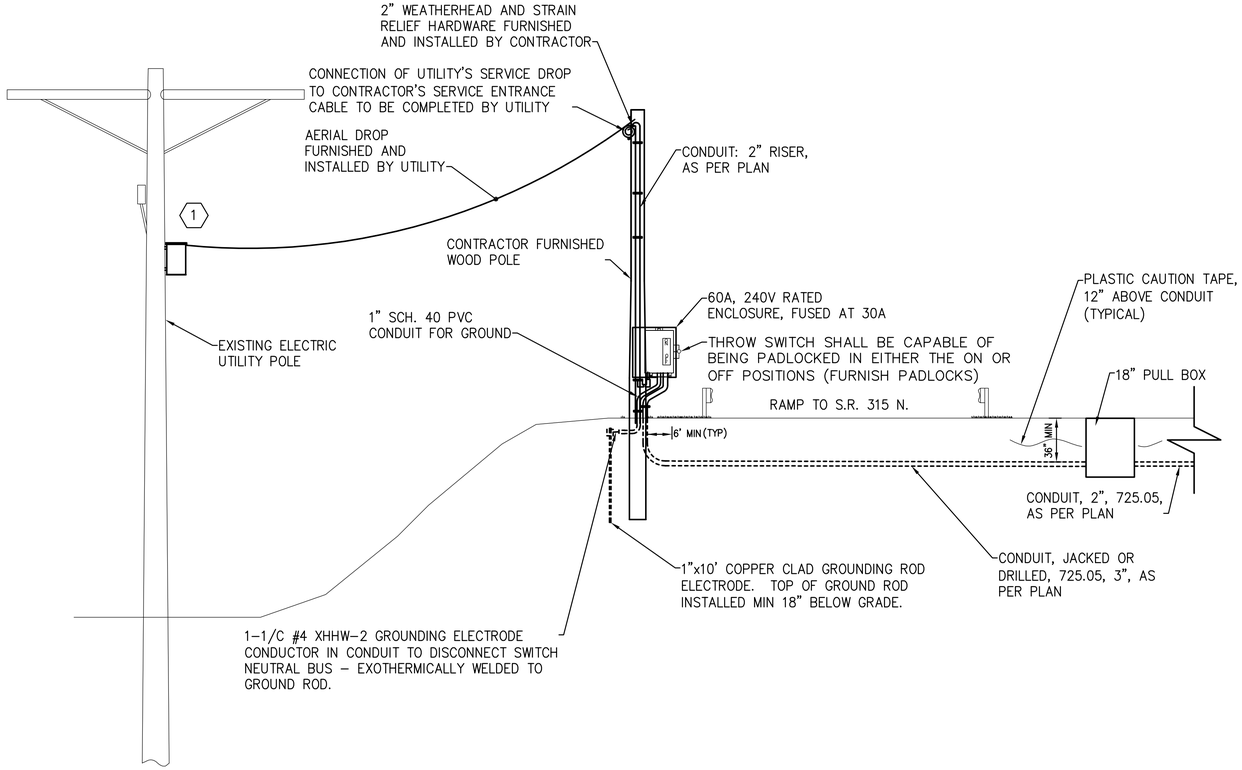
PID NUMBER 13034

COMMUNICATION NODE SHEET
TERMINATION PANEL INDEX

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

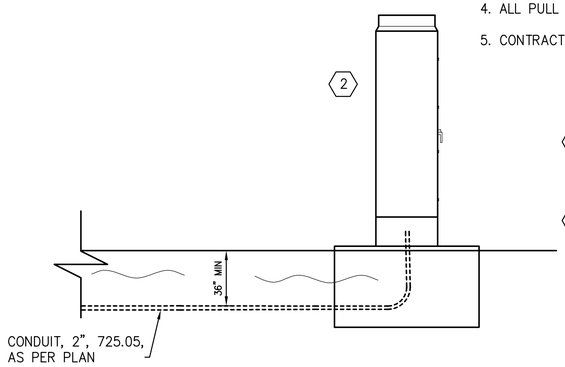
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1 POWER SERVICE, BETHEL ROAD AND S.R. 315, FACING SOUTH

SCALE: N.T.S.

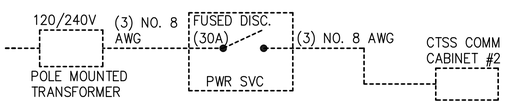


NOTES:

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. THE FOLLOWING MATERIALS AND ASSOCIATED LABOR LISTED BELOW ARE INCIDENTAL TO POWER SERVICE PAY ITEMS:
   - POLES
   - RISERS
   - DISCONNECT ENCLOSURES
   - GROUNDING ROD/CABLE
   - HARDWARE
   - TRANSFORMER
   - SERVICE CABLE
   - FUSES
   - BREAKERS
   - ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE.
5. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

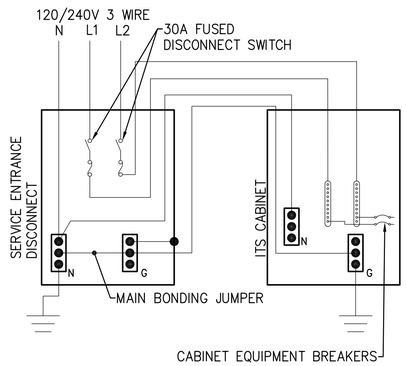
CODED NOTES:

1. NEW 120/240V TRANSFORMER, FURNISHED BY UTILITY. COORDINATE WITH UTILITY FOR ADDITIONAL CONNECTION REQUIREMENTS. SEE DETAIL SHEET FOR ADDITIONAL REQUIREMENTS.
2. ITS NODE CABINETS.



2 POWER SERVICE WIRE DIAGRAM

SCALE: N.T.S.



3 WIRING DIAGRAM

SCALE: N.T.S.

SEE SHEET 285 FOR INTERSECTION DETAIL.
SEE SHEET 695 FOR INTERCONNECT DETAIL.

2762 DR. E

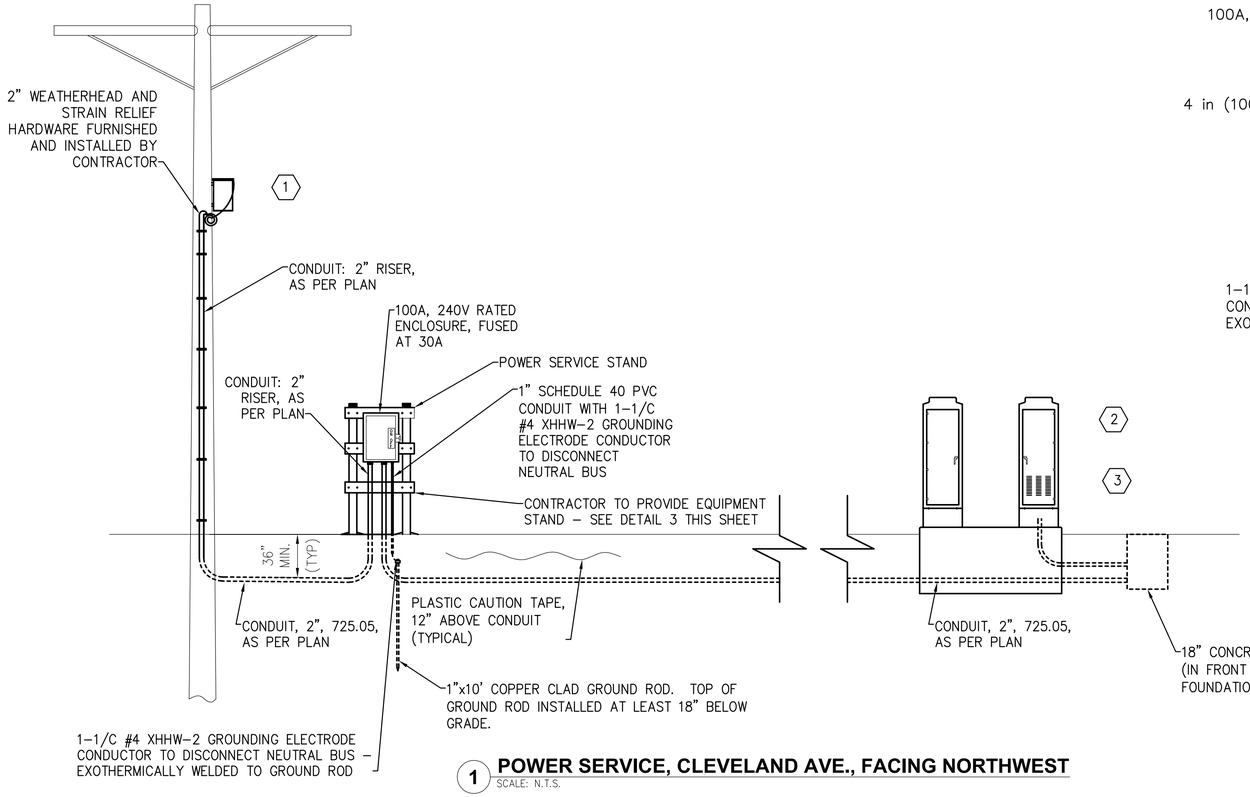
PID NUMBER 13034

NODE #315008.6 / BETHEL RD AT SR-315 POWER DETAILS

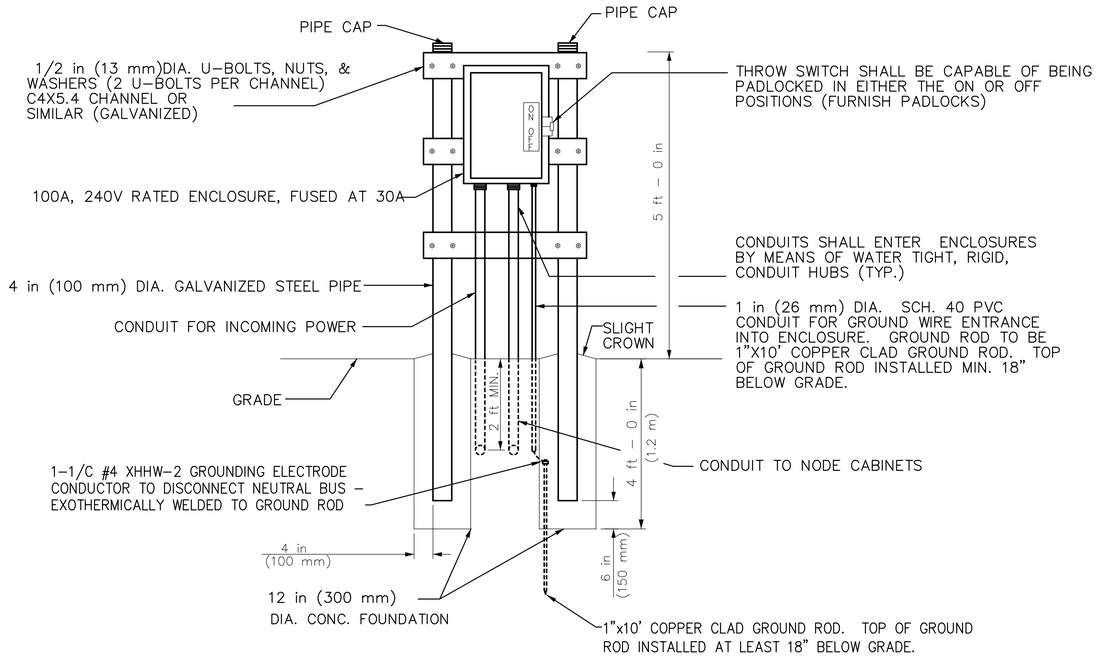
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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1107

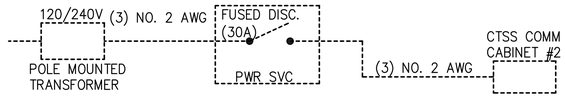
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1 POWER SERVICE, CLEVELAND AVE., FACING NORTHWEST
SCALE: N.T.S.

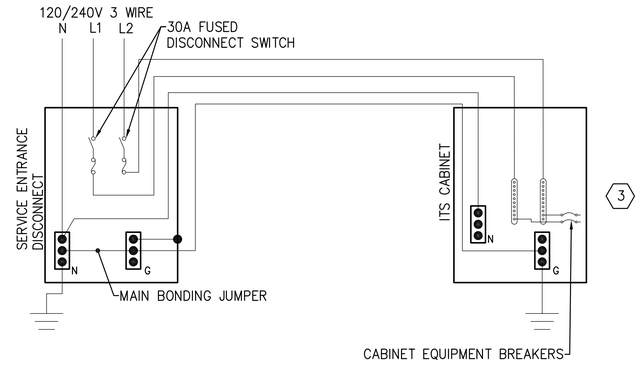


3 POWER SERVICE ELEVATION
SCALE: N.T.S.



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

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   - BREAKERS
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4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE.
5. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.



4 WIRING DIAGRAM
SCALE: N.T.S.

CODED NOTES:

1. NEW 120/240V TRANSFORMER, FURNISHED BY UTILITY. COORDINATE WITH UTILITY FOR ADDITIONAL CONNECTION REQUIREMENTS.
2. ITS NODE CABINETS.
3. INSTALL IN-LINE REDUCER LUG FROM #2 AWG CONDUCTORS TO PANEL BOARD IN NODE CABINET

SEE SHEETS 566 AND 570 FOR INTERCONNECT DETAIL.

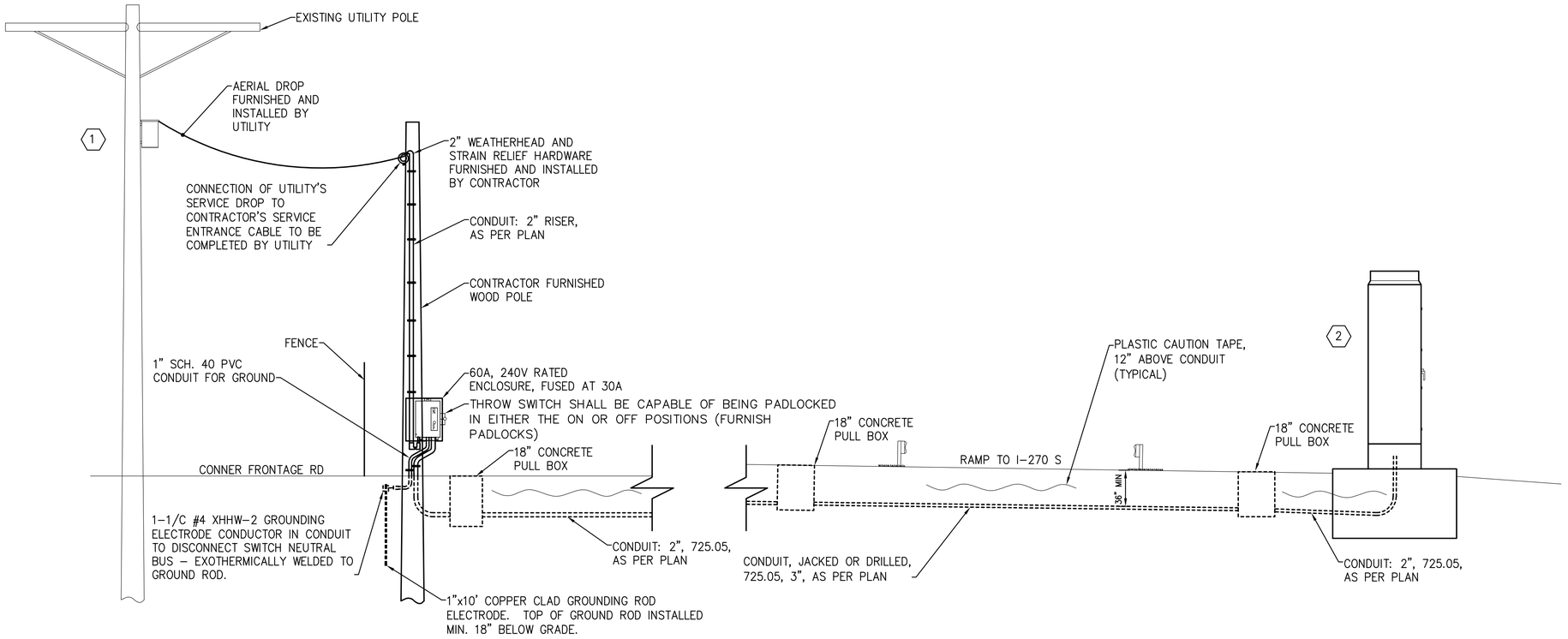
2762 DR. E

PID NUMBER 13034

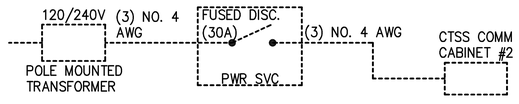
NODE #270027.7 / CLEVELAND AVE AT I-270 POWER DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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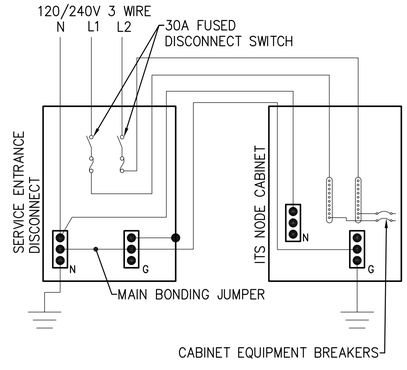


1 POWER SERVICE ELEVATION, CEMETERY RD, FACING WEST
SCALE: N.T.S.



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

2 CABINET ELEVATION, FISHINGER RD, FACING NORTH
SCALE: N.T.S.



4 WIRING DIAGRAM
SCALE: N.T.S.

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   - BREAKERS
   - ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE.
5. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

CODED NOTES:

1. CONNECT TO UTILITY PROVIDED 120/240V 1PH TRANSFORMER. COORDINATE WITH UTILITY FOR CONNECTION REQUIREMENTS.

2. ITS NODE CABINETS.

SEE SHEET 714 FOR INTERCONNECT DETAIL.

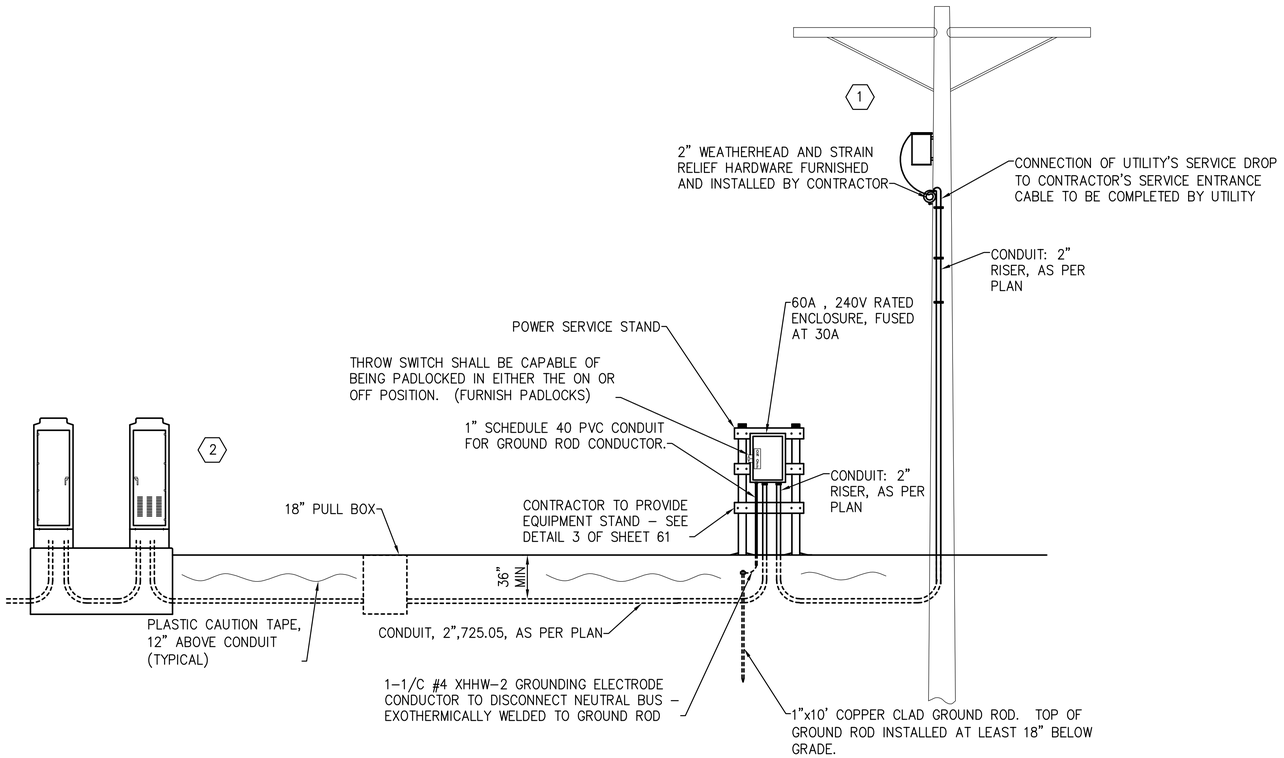
2762 DR. E

PID NUMBER 13034

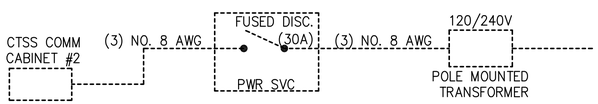
NODE #270012.6 CEMETERY RD/FISHINGER BLVD AT I-270 POWER DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

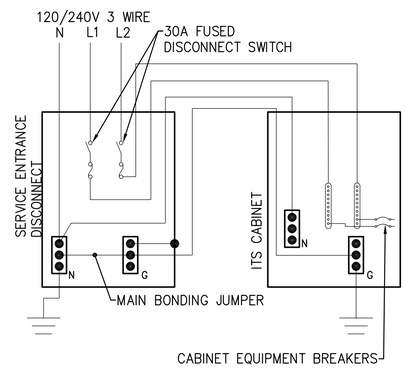
J:\Jobs\47857\TECHPROD\Sheets\DETAILS\POWER DETAILS.dwg - CEMETERY layout ~ last saved by: CCI, mgraf 06/26/2015 04:06pm ~ printed 06/30/2015 02:09pm



1 POWER SERVICE, GEORGESVILLE RD, FACING NORTHEAST
SCALE: N.T.S.



2 POWER SERVICE WIRE 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. THE FOLLOWING MATERIALS AND ASSOCIATED LABOR LISTED BELOW ARE INCIDENTAL TO POWER SERVICE PAY ITEMS:
   – POLES
   – RISERS
   – DISCONNECT ENCLOSURES
   – GROUNDING ROD/CABLE
   – HARDWARE
   – TRANSFORMER
   – SERVICE CABLE
   – FUSES
   – BREAKERS
   – ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. ALL PULL BOXES WILL BE PRE–CAST CONCRETE TYPE.
5. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

CODED NOTES:

1. CONNECT TO UTILITY PROVIDED 120/240V 1PH TRANSFORMER. COORDINATE WITH UTILITY FOR CONNECTION REQUIREMENTS.

2. ITS NODE CABINETS.

SEE SHEET 653 FOR INTERCONNECT DETAIL.

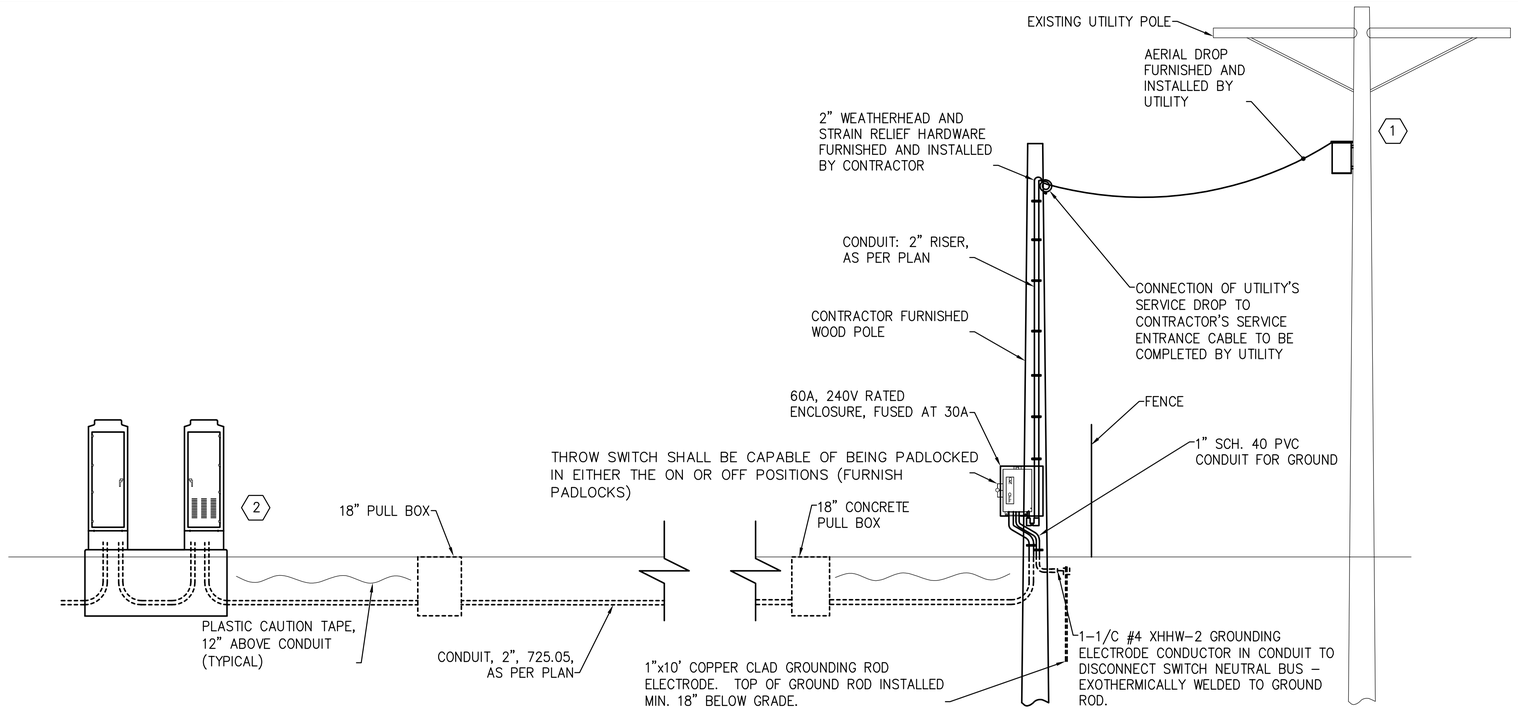
2762 DR. E

PID NUMBER 13034

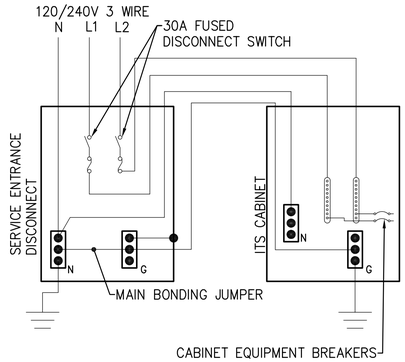
NODE #270004.5 / GEORGESVILLE RD AT I–270 POWER DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

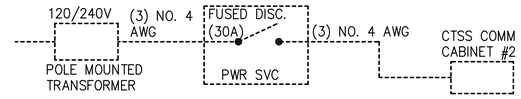
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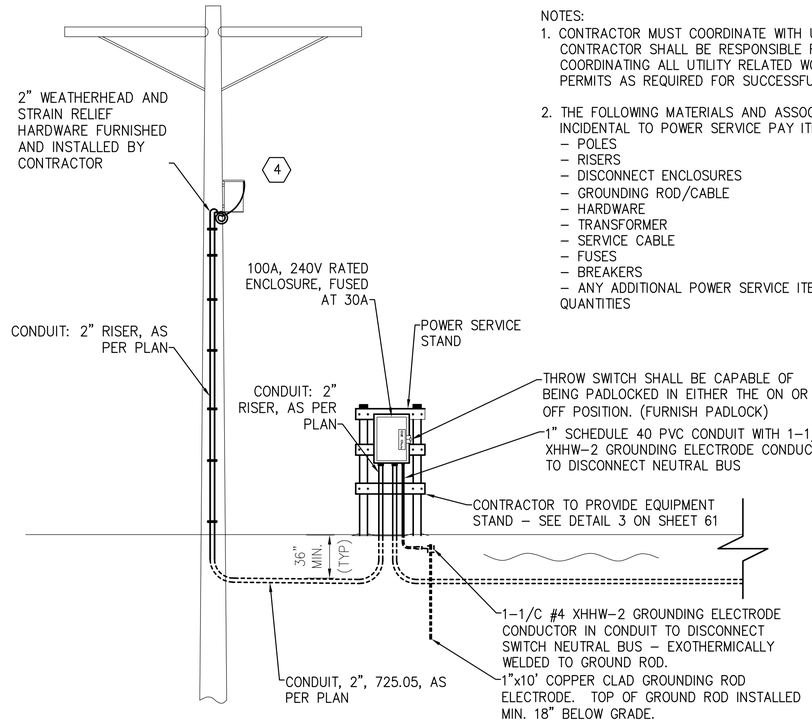
1 POWER SERVICE, HAMILTON ROAD AND I-270, FACING NORTH
SCALE: N.T.S.



3 WIRING DIAGRAM
SCALE: N.T.S.



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



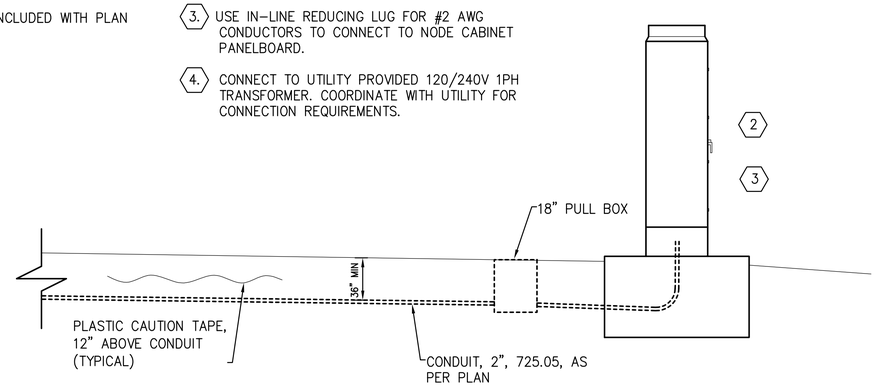
1 POWER SERVICE ELEVATION, U.S. 23, FACING SOUTH
SCALE: N.T.S.

NOTES:

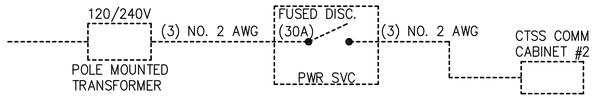
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. THE FOLLOWING MATERIALS AND ASSOCIATED LABOR LISTED BELOW ARE INCIDENTAL TO POWER SERVICE PAY ITEMS:
   - POLES
   - RISERS
   - DISCONNECT ENCLOSURES
   - GROUNDING ROD/CABLE
   - HARDWARE
   - TRANSFORMER
   - SERVICE CABLE
   - FUSES
   - BREAKERS
   - ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

CODED NOTES:

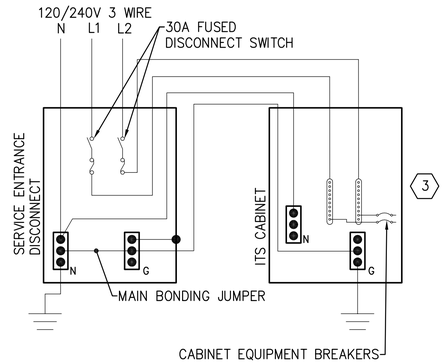
1. NEW POLE MOUNTED 120/240V TRANSFORMER, FURNISHED BY UTILITY. COORDINATE WITH UTILITY FOR CONNECTION REQUIREMENTS.
2. ITS NODE CABINETS
3. USE IN-LINE REDUCING LUG FOR #2 AWG CONDUCTORS TO CONNECT TO NODE CABINET PANELBOARD.
4. CONNECT TO UTILITY PROVIDED 120/240V 1PH TRANSFORMER. COORDINATE WITH UTILITY FOR CONNECTION REQUIREMENTS.



2 CABINET ELEVATION, U.S. 23, FACING WEST
SCALE: N.T.S.



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



4 WIRING DIAGRAM
SCALE: N.T.S.

SEE SHEET 604 FOR HAMILTON RD AT I-270 INTERCONNECT DETAIL.
SEE SHEET 603 FOR I-270 AT US-23 INTERCONNECT DETAIL.

2762 DR. E

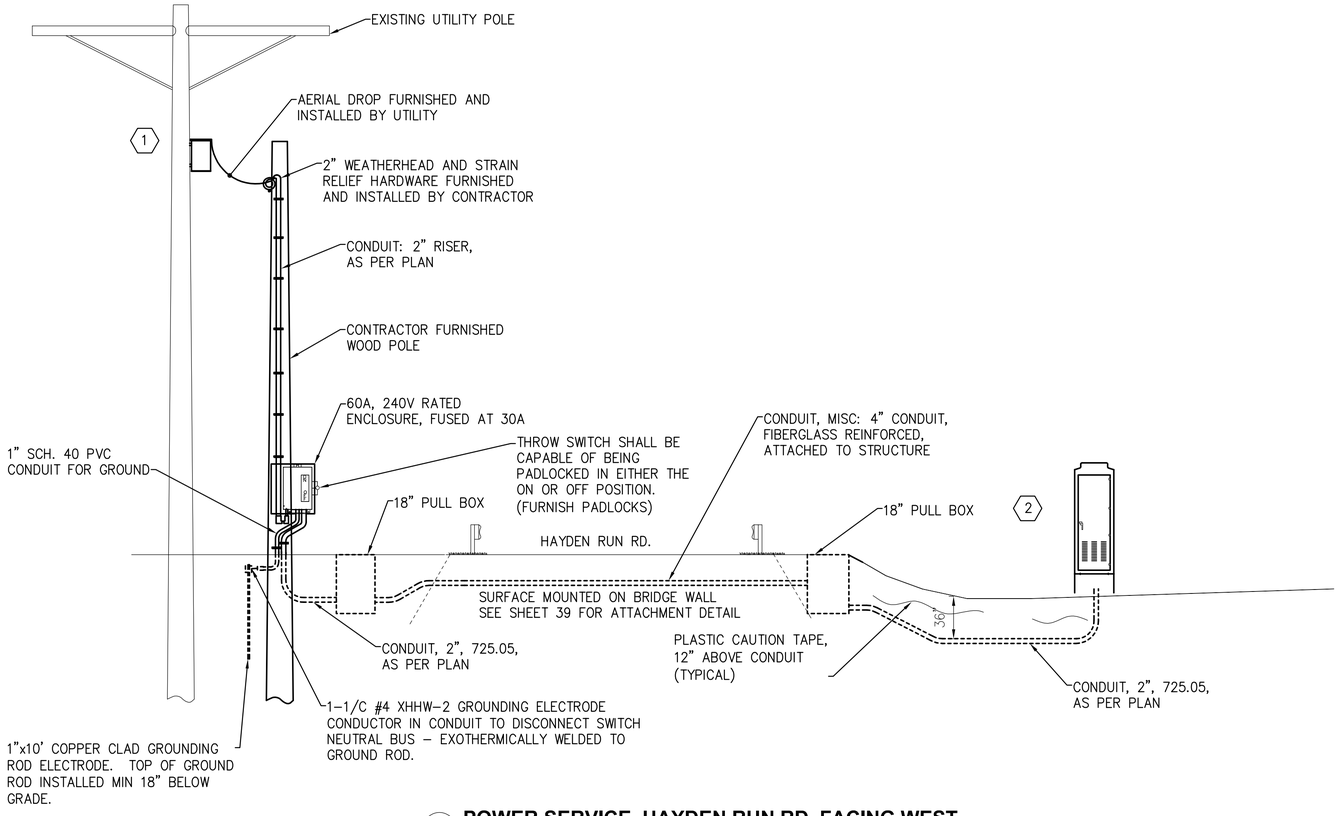
PID NUMBER 13034

NODE #270037.4 / HAMILTON RD AT I-270 POWER DETAILS
NODE #270023.6 / I-270 AT US-23 POWER DETAILS

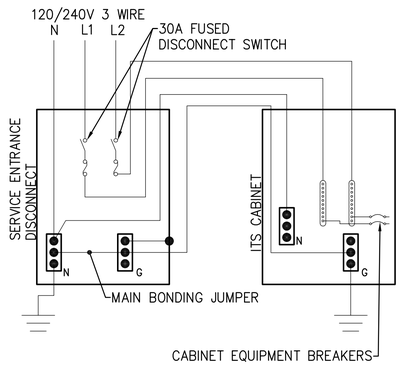
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

64
1107

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1 POWER SERVICE, HAYDEN RUN RD, FACING WEST
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. THE FOLLOWING MATERIALS AND ASSOCIATED LABOR LISTED BELOW ARE INCIDENTAL TO POWER SERVICE PAY ITEMS:
   - POLES
   - RISERS
   - DISCONNECT ENCLOSURES
   - GROUNDING ROD/CABLE
   - HARDWARE
   - TRANSFORMER
   - SERVICE CABLE
   - FUSES
   - BREAKERS
   - ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES

3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.

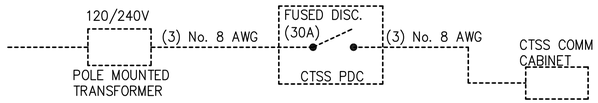
4. ALL PULL BOXES WILL BE PRE-CAST CONCRETE TYPE.

5. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

CODED NOTES:

1. NEW 120/240V TRANSFORMER, FURNISHED BY UTILITY. COORDINATE WITH UTILITY FOR ADDITIONAL CONNECTION REQUIREMENTS.

2. ITS NODE CABINETS.



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

SEE SHEET 663 FOR INTERCONNECT DETAIL.

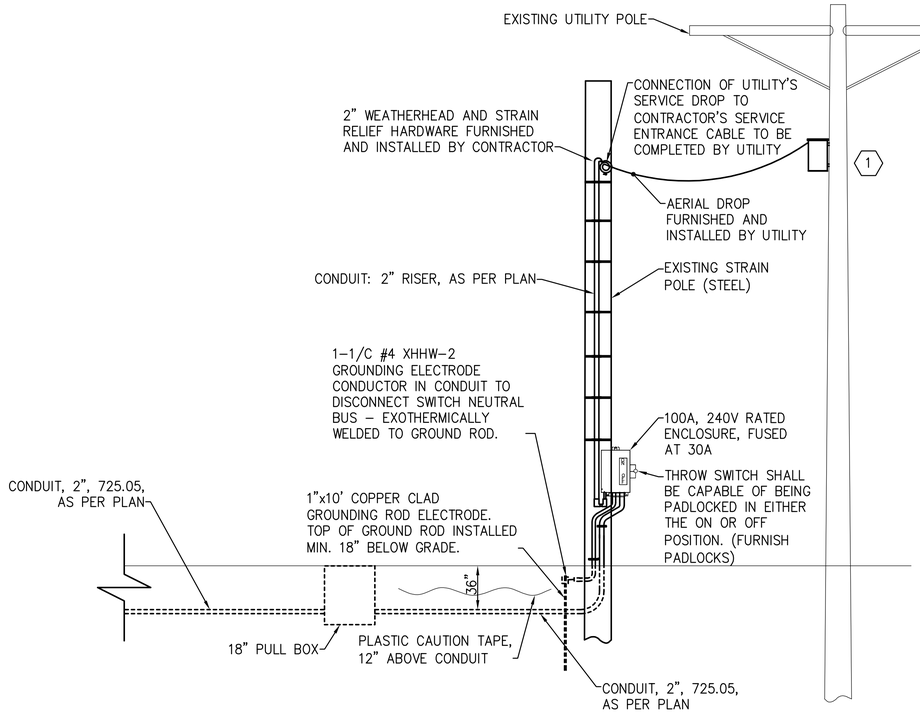
2762 DR. E

PID NUMBER 13034

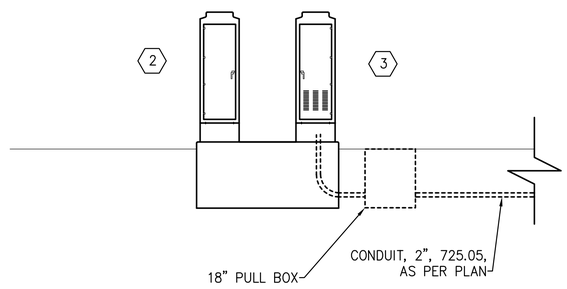
NODE #270015.6 / HAYDEN RUN RD AT I-270 POWER DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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1 POWER SERVICE I-71 SB OFF RAMP, FACING SOUTH WEST
SCALE: N.T.S.

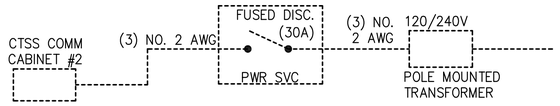


2 NODE CABINETS, FACING NORTH WEST
SCALE: N.T.S.

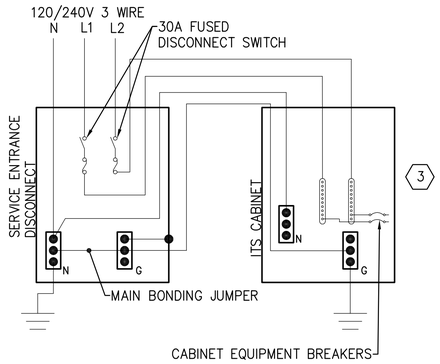
NOTES:
1. CONTRACTOR MUST COORDINATE WITH UTILITY'S FIELD ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL UTILITY RELATED WORK AND ALL INSPECTIONS AND PERMITS AS REQUIRED FOR SUCCESSFUL COMPLETION OF THE PROJECT.
2. THE FOLLOWING MATERIALS AND ASSOCIATED LABOR LISTED BELOW ARE INCIDENTAL TO POWER SERVICE PAY ITEMS:
   - POLES
   - RISERS
   - DISCONNECT ENCLOSURES
   - GROUNDING ROD/CABLE
   - HARDWARE
   - TRANSFORMER
   - SERVICE CABLE
   - FUSES
   - BREAKERS
   - ANY ADDITIONAL POWER SERVICE ITEM NOT INCLUDED WITH PLAN QUANTITIES
3. ALL CONDUIT SYSTEMS SHALL BE INSTALLED PER 2011 NEC, NESC AND LOCAL REQUIREMENTS.
4. CONTRACTOR TO CONTACT ENGINEER FOR PADLOCK SPECIFICATIONS.

CODED NOTES:

1. CONNECT TO EXISTING 120/240V TRANSFORMER. MOUNT SERVICE DISCONNECT ON EXISTING STRAIN POLE. COORDINATE WITH UTILITY FOR ADDITIONAL CONNECTION REQUIREMENTS.
2. ITS NODE CABINETS.
3. PROVIDE IN-LINE REDUCING LUG FOR #2 AWG CONDUCTORS TO PANELBOARD.



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



4 WIRING DIAGRAM
SCALE: N.T.S.

SEE SHEET 520 FOR INTERCONNECT DETAIL.

2762 DR. E

PID NUMBER 13034

NODE #071116.2 / MORSE RD / SINCLAIR RD AT I-71 POWER DETAILS

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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144 STRAND FOC INSTALLED ON EX. AERIAL INTERCONNECT PATH

AEP 1862575 718858

DOPW(P) OH ST LIGHTING

AEP 1862568 718732

INSTALL IN EX. CONDUIT AND RISER
131' – 144 STRAND FOC

EX. 32" PB, TRF

JACK GIBBS BLVD

INSTALL IN EX. CONDUIT
(2) 45' – 24 STRAND FOC DROP
(2) 23' – 144 STRAND FOC

INSTALL IN EX. 32" PB
(1) – SPLICE ENCLOSURE
(2) 75' – 24 STRAND FOC DROP SLACK
(2) 75' – 144 STRAND FOC SLACK
SEE NOTES #1 AND #3 THIS SHEET

EX. 32" PB, TRF

TC-1

EX. 32" PB W/ EX. 288 STRAND FOC SLACK STORAGE

< I-670 WB (ABOVE)

BRIDGE ABOVE

CLEVELAND AVE (BELOW)

I-670 EB > (ABOVE)

EX. 288 STRAND FIBER OPTIC CABLE IN EX. CONDUIT

144 STRAND FOC IN EX. CONDUIT

CLEVELAND AVE AT JACK GIBBS BLVD - 0001

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

INT #0001 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 512

NOTES:

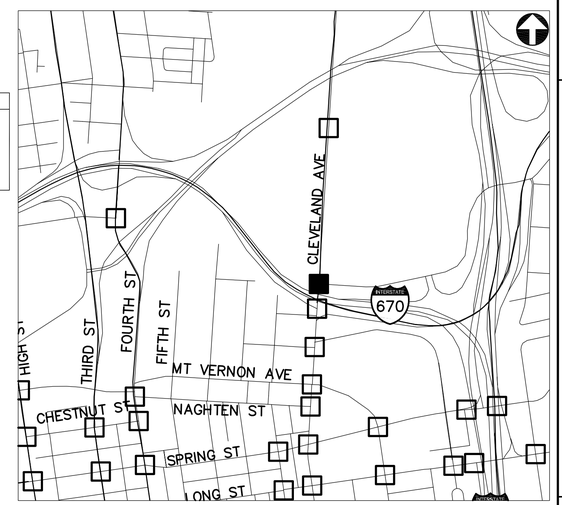
1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 72 FOR INTERSECTION QUANTITIES
3. SEE SHEET 760 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

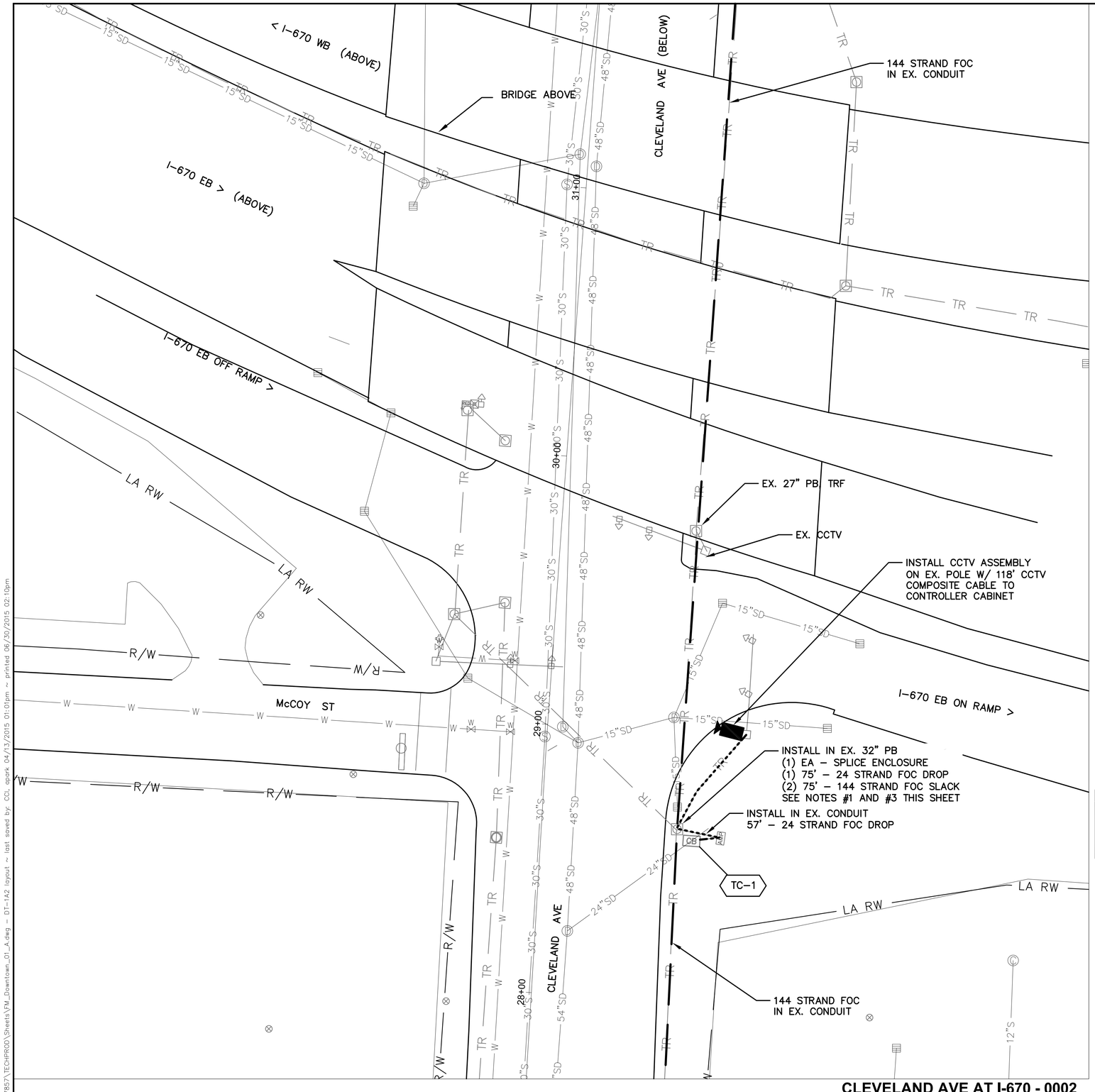
PID NUMBER 13034

CLEVELAND AVE AT JACK GIBBS BLVD
INTERSECTION 0001

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

67
1107

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CLEVELAND AVE AT I-670 - 0002

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

INT #0002 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 512

UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

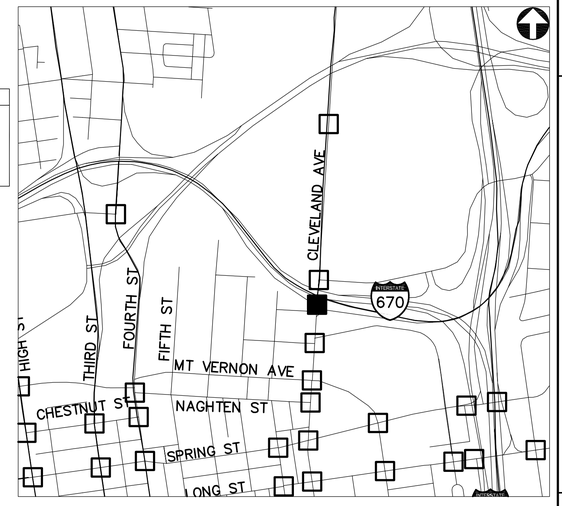
OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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

NOTES:

1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 72 FOR INTERSECTION QUANTITIES
3. SEE SHEET 761 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. ~~SIGNAL TO BE REBUILT WITH THE I-71/I-670 INTERCHANGE PROJECT, PID #77369~~
5. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

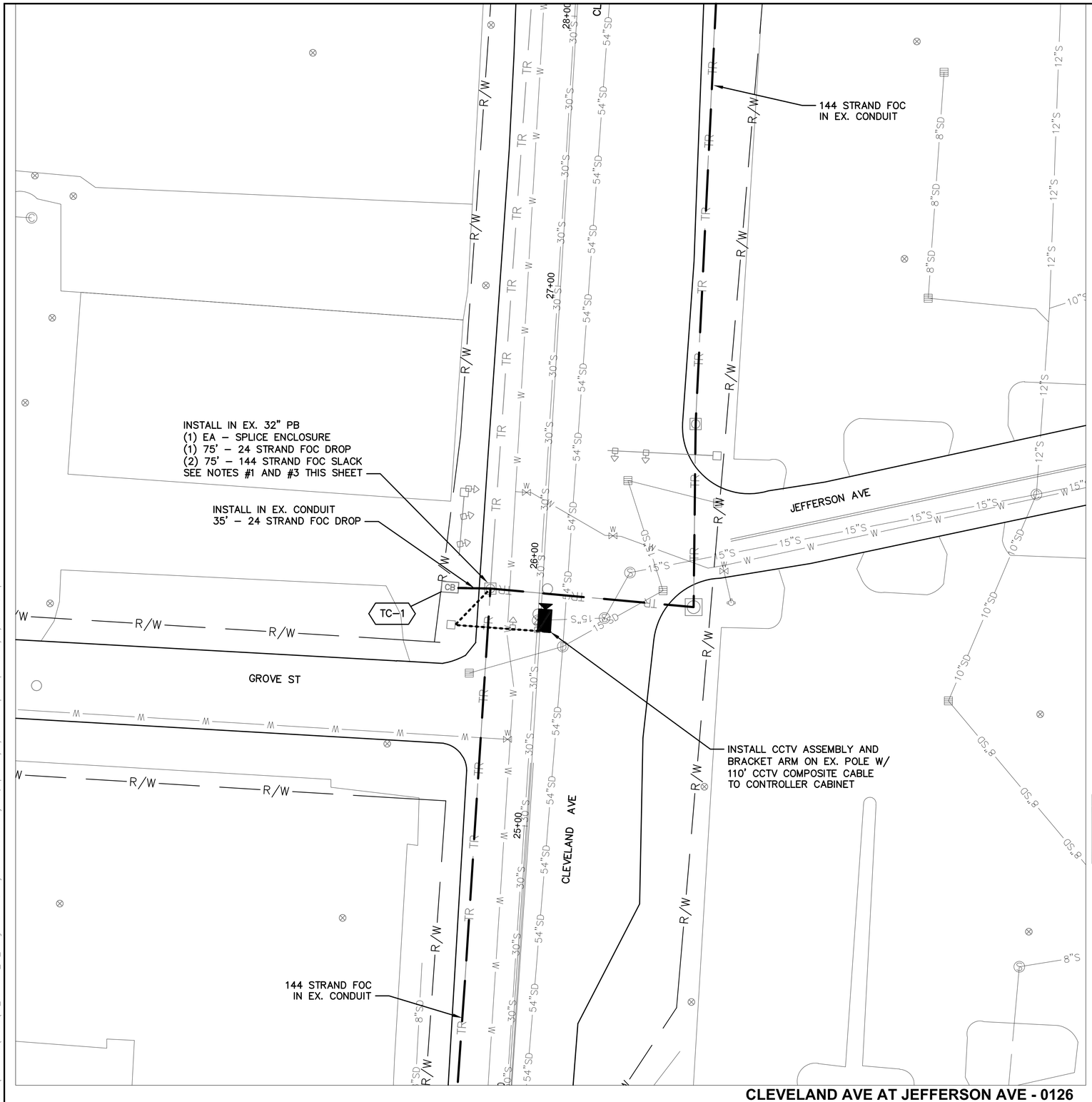
PID NUMBER 13034

CLEVELAND AVE AT I-670
INTERSECTION 0002

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

68
1107

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CLEVELAND AVE AT JEFFERSON AVE - 0126

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

INT #0126 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 512

NOTES:

1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 72 FOR INTERSECTION QUANTITIES
3. SEE SHEET 763 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. ~~SIGNAL TO BE INSTALLED WITH THE I-71/I-670 INTERCHANGE PROJECT, PID #77369~~

UNDERGROUND UTILITIES

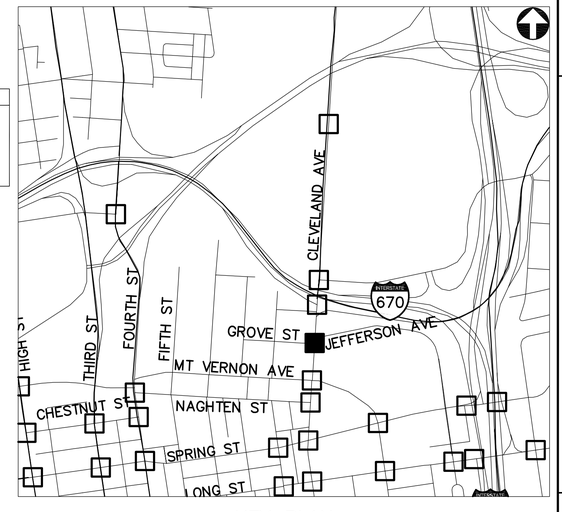
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT JEFFERSON AVE
INTERSECTION 0126

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

69
1107

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144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

MT VERNON AVE

CLEVELAND AVE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

22+00

23+00

21+00

20+00

S11

S12

S20

R/W

TR

SP

12"SD

8"S

10"SD

15"S

54"SD

30"S

W

ONLY

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

INT #0003 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 512

NOTES:

1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 72 FOR INTERSECTION QUANTITIES
3. SEE SHEET 762 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

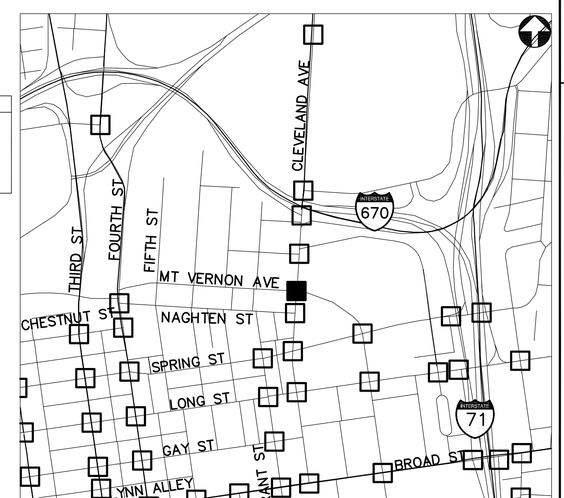
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT MT VERNON AVE - 0003

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT MT VERNON AVE
INTERSECTION 0003

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

70
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

CLEVELAND AVE

NAGHTEN ST

144 STRAND FIBER OPTIC CABLE

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

INT #0086 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 512

NOTES:

1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 72 FOR INTERSECTION QUANTITIES
3. SEE SHEET 842 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

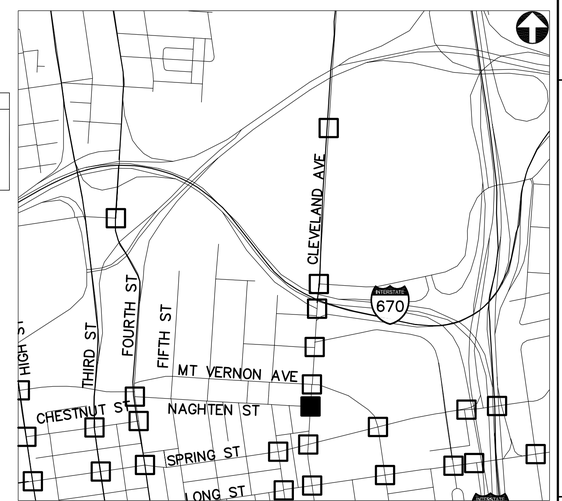
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT NAGHTEN ST - 0086

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT NAGHTEN ST
INTERSECTION 0086

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

71
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.; CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.; INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)	804 FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)
INTERSECTION 0001: CLEVELAND AVE. AT JACK GIBBS BLVD.												
67	IC-1	32+76, 25' LT									75	
67	IC-2	32+76, 25' LT	32+78, 27' RT								52	
67	IC-3	32+78, 27' RT									30	
67	IC-4	32+78, 27' RT	32+78, 47' RT								20	
67	IC-5	32+78, 47' RT	32+02, 47' RT	76							76	
67	IC-6	32+02, 47' RT									25	
67	TC-1	32+02, 47' RT				2		1		1		1
INTERSECTION 0002: CLEVELAND AVE. AT I-670 EB ON RAMP												
68	IC-1	29+44, 19' LT									75	
68	IC-2	29+44, 19' LT	29+26, 40' RT								74	
68	TC-1	29+26, 40' RT				2		1	1			1
68	CTV-1	29+26, 40' RT			1							
68	PULL BOX SLACK										10	
INTERSECTION 0126: CLEVELAND AVE. AT JEFFERSON AVE												
69	IC-1	20+44, 19' LT									75	
69	IC-2	20+44, 19' LT	20+29, 40' RT								61	
69	TC-1	20+29, 40' RT				2		1				1
69	PULL BOX SLACK										10	
INTERSECTION 0003: CLEVELAND AVE. AT MT. VERNON AVE.												
70	IC-1	20+99, 17' LT									75	
70	IC-2	20+99, 17' LT	21+03, 28' LT								22	
70	TC-1	21+03, 28' LT				2	1	1				1
INTERSECTION 0086: CLEVELAND AVE. AT NAGHTEN ST.												
71	IC-1	19+30, 16' LT									75	
71	IC-2	19+30, 16' LT	19+07, 28' LT								38	
71	TC-1	19+07, 28' LT				2		1	1			1
SHEET TOTAL				76	1	10	1	5	2	1	793	5

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0001, 0002, 0126, 0003 AND 0086

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

72
1107

2762 DR. E

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

CTV-1

TC-1

EX. PB, TRF

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

NATIONWIDE BLVD

FRONT ST

ONLY

1059+00

1058+00

1057+00

1056+00

1018+00

1017+00

1016+00

1019+0

FRONT ST AT NATIONWIDE BLVD - 0004

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 487

PROPOSED FIBER CABLE SEE SHEET 501

INT #0004 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 501

PROPOSED FIBER CABLE SEE SHEET 487

NOTES:

1. SEE SHEETS 487 AND 501 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 78 FOR INTERSECTION QUANTITIES

3. SEE SHEET 764 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

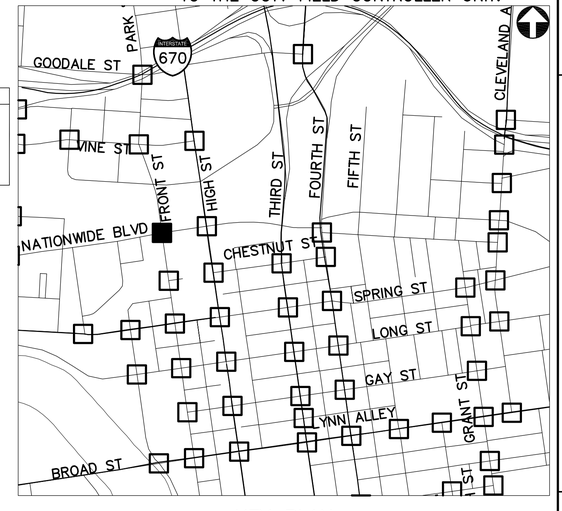
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT NATIONWIDE BLVD INTERSECTION 0004

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

CB

144 STRAND FIBER OPTIC CABLE

CONDUITS CROSS BUT DO NOT CONNECT

144 STRAND FIBER OPTIC CABLE

ELEVATED WALKWAY

ELEVATED WALKWAY

HIGH ST

HIGH ST

NATIONWIDE BLVD

1021+00

1022+00

1023+00

1024+00

68+00

66+00

ONLY

ONLY

ONLY

ONLY

R/W

S20

TR

SD

S

W

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 482

PROPOSED FIBER CABLE SEE SHEET 501

INT #0005 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 482

NOTES:

1. SEE SHEETS 482 AND 501 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 78 FOR INTERSECTION QUANTITIES

3. SEE SHEET 765 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

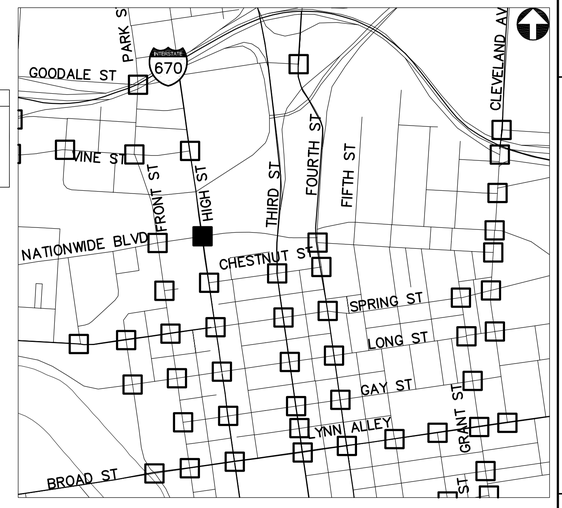
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

HIGH ST AT NATIONWIDE BLVD - 0005

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

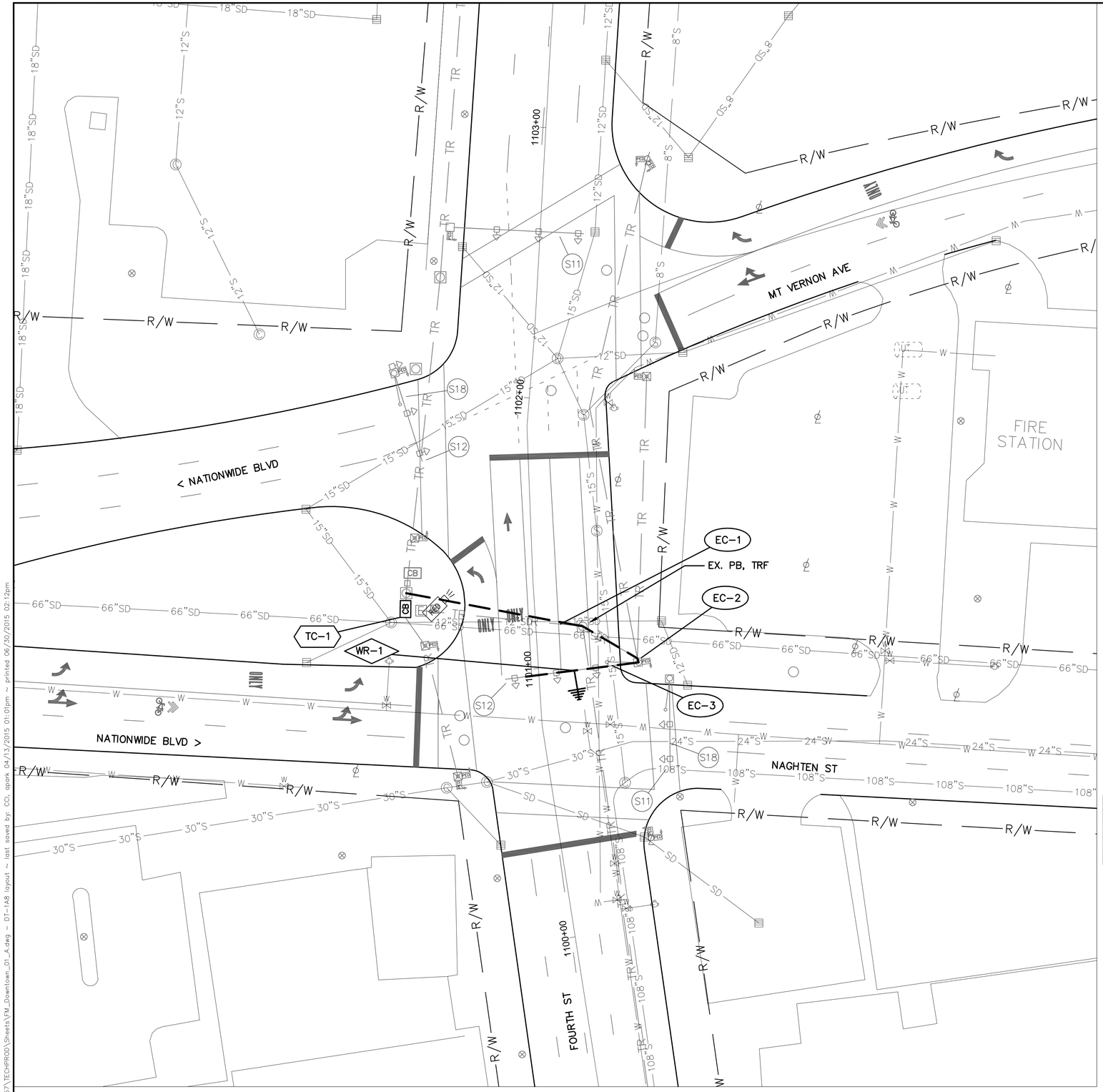
PID NUMBER 13034

HIGH ST AT NATIONWIDE BLVD INTERSECTION 0005

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

74
1107

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INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 78 FOR INTERSECTION QUANTITIES

2. SEE SHEET 766 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

INT #0006 & #0100 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 76

UNDERGROUND UTILITIES

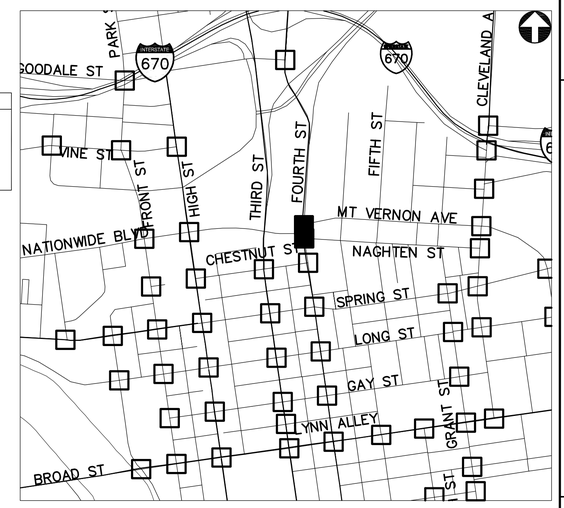
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

FOURTH ST AT MT VERNON AVE AND NAGHTEN ST AND NATIONWIDE BLVD - 0006 & 0100

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT MT VERNON AVE AND NAUGHTEN ST AND NATIONWIDE BLVD INTERSECTION 0006 & 0100

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

75
1107

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CHESTNUT ST AT FOURTH ST - 0010

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 75

PROPOSED WIRELESS SEE SHEET 80 — INT #0010 WITH EXISTING SIGNAL CONTROLLER

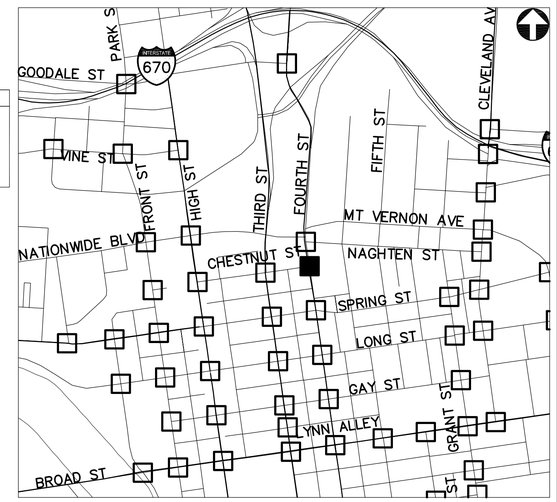
PROPOSED WIRELESS SEE SHEET 86

NOTES:

1. SEE SHEET 78 FOR INTERSECTION QUANTITIES
2. SEE SHEET 770 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CHESTNUT ST AT FOURTH ST INTERSECTION 0010

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

76
1107

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CLEVELAND AVE AT FORT HAYES - 0007

INTERSECTION COMMUNICATIONS

NOTES:

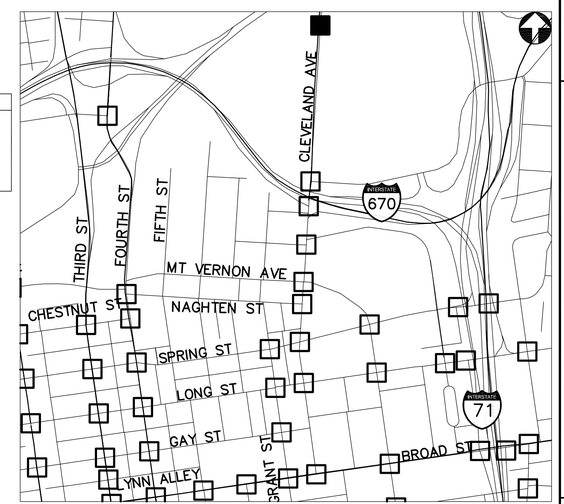
1. SEE SHEET 513 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 78 FOR INTERSECTION QUANTITIES
3. SEE SHEET 767 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

INT #0007 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 513

UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
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- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT FORT HAYES INTERSECTION 0007

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

77
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	804	804	804	804	815												
				SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN											
		FROM	TO	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH												
INTERSECTION 0004: FRONT ST. AT NATIONWIDE BLVD.																										
73	IC-1	1057+98, 36' LT									75															
73	IC-2	1057+98, 36' LT	1056+93, 59' RT								224															
73	TC-1	1056+93, 59' RT			4	1	1						1													
73	CTV-1	1056+97, 43' RT		1																						
73	PULL BOX SLACK										30															
INTERSECTION 0005: HIGH ST. AT NATIONWIDE BLVD.																										
74	IC-1	67+31, 23' RT									75															
74	IC-2	67+31, 23' RT	67+42, 71' LT								101															
74	TC-1	67+42, 71' LT			3	1		1					1													
74	PULL BOX SLACK										10															
INT. 0006: FOURTH ST. AT MT. VERNON , NAGHTEN ST. & NATIONWIDE BLVD																										
75	TC-1	1101+25, 50' LT				1		1																		
75	EC-1	1101+25, 50' LT	1101+00, 37' RT						101																	
75	EC-2	1101+00, 37' RT							35																	
75	EC-3	1101+00, 37' RT	1100+97, 05' LT						42																	
75	WR-1	1100+97, 05' LT												1												
75	PULL BOX SLACK								5																	
INTERSECTION 0010: CHESTNUT ST. AT FOURTH ST.																										
76	TC-1	1097+52, 32' RT				1	1																			
76	EC-1	1097+52, 32' RT							35																	
76	EC-2	1097+52, 32' RT	1097+96, 33' RT						44																	
76	WR-1	1097+96, 33' RT												1												
76	EC-3	1098+66, 30' RT							300																	
76	EC-4	1098+66, 30' RT							70																	
76	EC-5	1098+66, 30' RT	1098+66, 02' LT						64																	
76	WR-2	1098+66, 02' LT												2												
76	PULL BOX SLACK								20																	
INTERSECTION 0007: CLEVELAND AVE. AT FORT HAYES																										
77	IC-1	49+95, 28' RT								75																
77	IC-2	49+95, 28' RT								35																
77	TC-1	49+95, 28' RT			2	1		1				1														

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

EX. PB, TRF

EX. PB, TRF

144 STRAND FIBER OPTIC CABLE

HIGH ST

CHESTNUT ST

ONLY

ONLY

EC-1

EC-2

EC-3

IC-1

IC-2

TC-1

WR-1

CB

AMP

S20

63+00

62+00

61+00

60+00

6+00

5+00

7+0

R/W

TR

SD

W

120"S

21"SD

12"SD

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 482

INT #0008 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 80

PROPOSED FIBER CABLE SEE SHEET 480

NOTES:

1. SEE SHEETS 480 AND 482 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 84 FOR INTERSECTION QUANTITIES
3. SEE SHEET 768 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

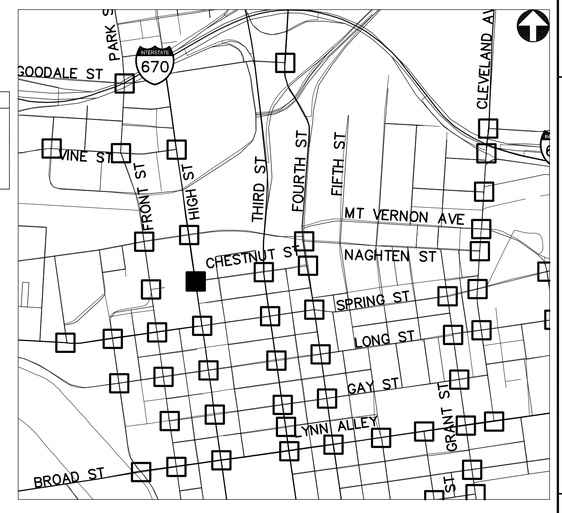
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

CHESTNUT ST AT HIGH ST - 0008

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CHESTNUT ST AT HIGH ST INTERSECTION 0008

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

79
1107

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CHESTNUT ST AT THIRD ST - 0009

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 79

INT #0009 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 76

PROPOSED WIRELESS SEE SHEET 87

NOTES:

1. SEE SHEET 84 FOR INTERSECTION QUANTITIES
2. SEE SHEET 769 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

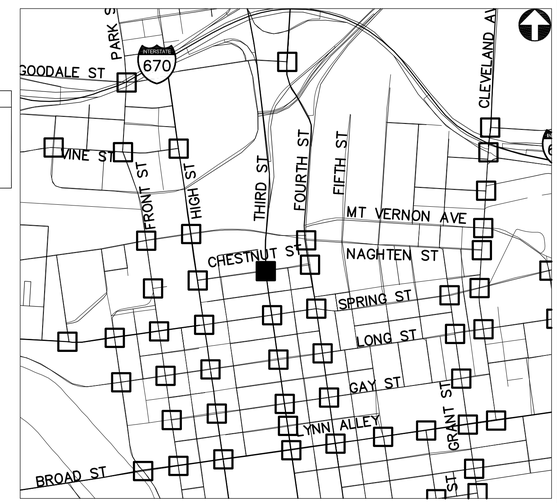
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

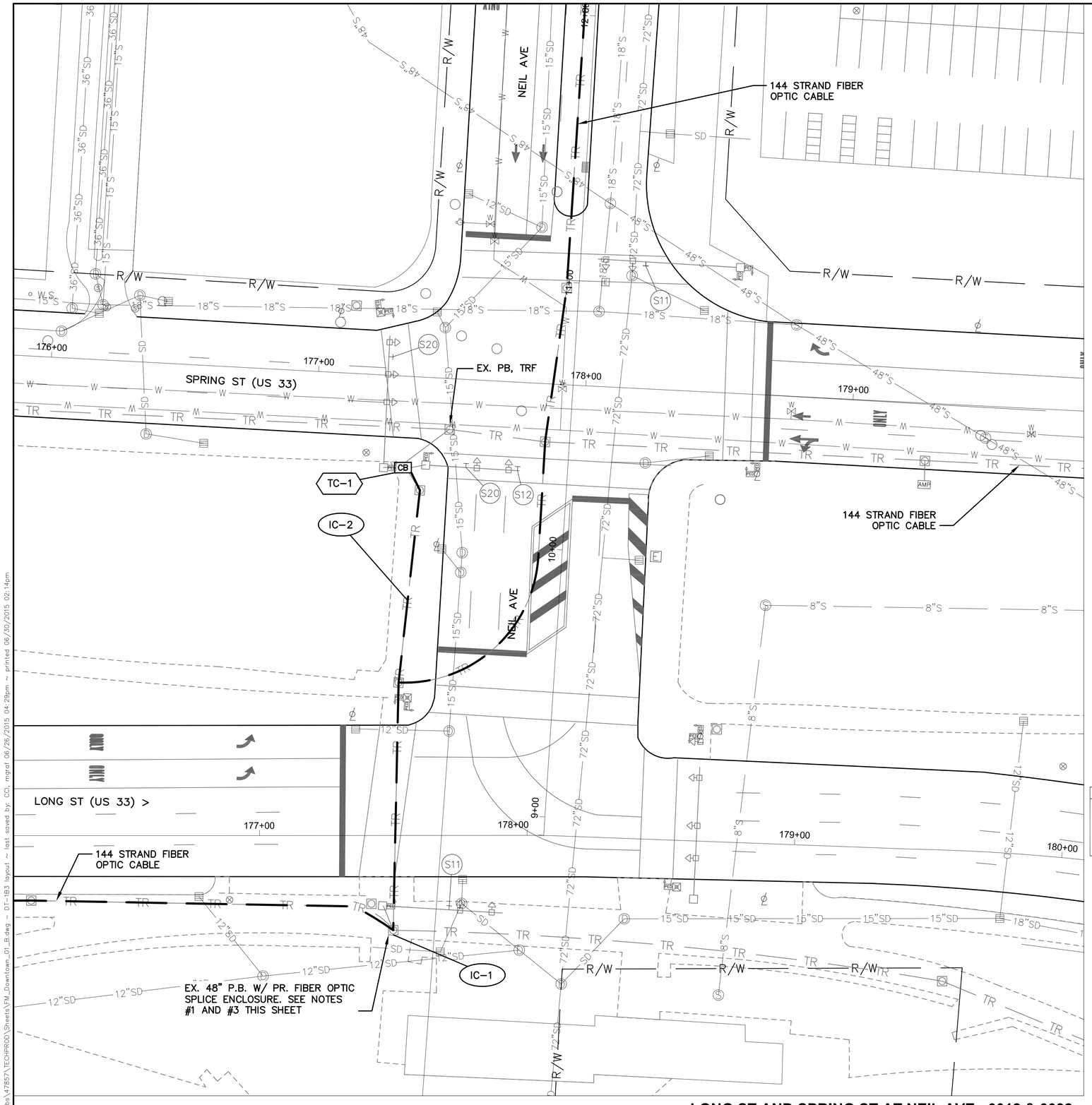
HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CHESTNUT ST AT THIRD ST
INTERSECTION 0009

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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LONG ST AND SPRING ST AT NEIL AVE - 0012 & 0032

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 498

INT #0012 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 476

NOTES:

1. SEE SHEETS 476, 496 AND 498 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 84 FOR INTERSECTION QUANTITIES
3. SEE SHEET 771 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

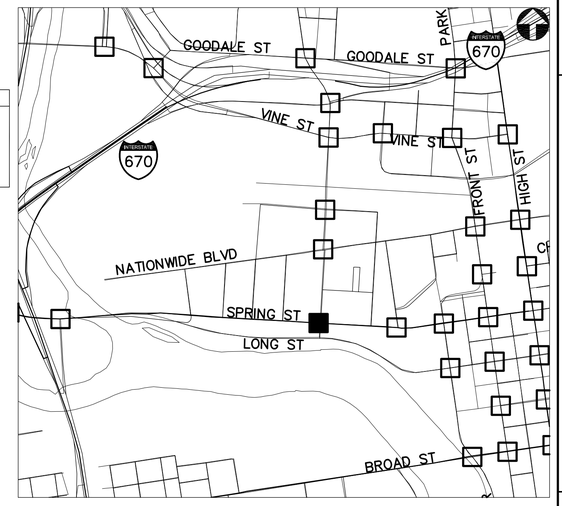
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

LONG ST AND SPRING ST AT NEIL AVE INTERSECTION 0012 AND 0032

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

81
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_Downtown_01_B.dwg ~ DT-183 layout ~ last saved by: CCI, mgraf 06/26/2015 04:29pm ~ printed 06/30/2015 02:14pm



MATCH LINE STA. 193+90, SEE SHEET 83

INTERSECTION COMMUNICATIONS

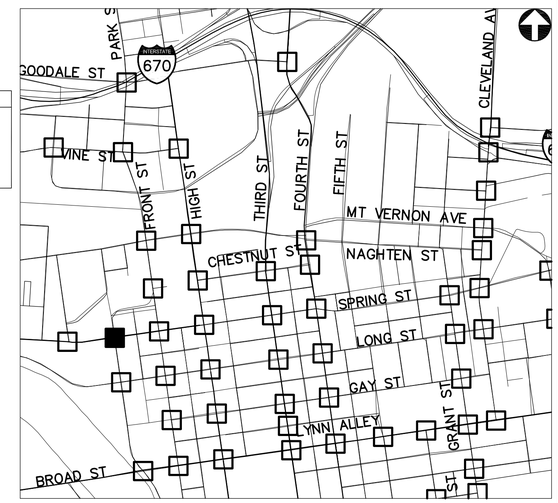
PROPOSED WIRELESS SEE SHEET 81 — INT #0013 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 83

NOTES:

1. SEE SHEET 496 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 84 FOR INTERSECTION QUANTITIES
3. SEE SHEET 772 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

MARCONI BLVD AT SPRING ST - 0013

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MARCONI BLVD AT SPRING ST
INTERSECTION 0013

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

82
1107

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COIL 24 STRAND RISER RATED FOC CABLE IN BUILDING – TO BE CONNECTED IN FUTURE

REPLACE EX. 1/2" COAXIAL CABLE WITH 24 STRAND RISER RATED FOC CABLE (FOR FUTURE USE)

(1) – INSTALL WIRELESS ETHERNET RADIO – LINK TO INT #0023

(1) – LAYER 2 NETWORK SWITCH

CTV–1

(1) – 70 FT – CAT5 CABLE

EX. 32" PB, TRF

TC–1

(2) – POLE MOUNTED WIRELESS ETHERNET RADIO

(1) – WIRELESS ETHERNET RADIO MOUNTED ON MAST ARM

EX. 32" P.B.

SPRING ST

FRONT ST

ONLY

ONLY ONLY

194+00 195+00 196+00 197+00 1046+00 1047+00 1048+00 1049+00

S11 S12 S17 S20

FRONT ST AT SPRING ST - 0014

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 181

PROPOSED WIRELESS SEE SHEET 82

INT #0014 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 94

NOTES:

1. SEE SHEET 84 FOR INTERSECTION QUANTITIES
2. SEE SHEET 773 FOR COMMUNICATION DETAILS
3. EXISTING CCTV MOUNTED ON BUILDING ROOF. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROPERTY OWNER PRIOR TO START OF WORK
4. REMOVE WIRELESS ETHERNET RADIO AT INT #0009 – FACING WEST. RE–INSTALL AT CTV–1 – THIS SHEET.

UNDERGROUND UTILITIES

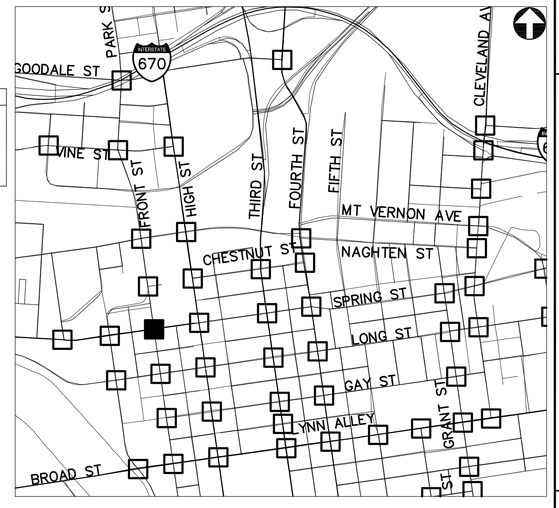
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OHIO UTILITIES PROTECTION SERVICE

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- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR .E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT SPRING ST INTERSECTION 0014

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

83
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	633	804	804	804	804	815										
				INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN										
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH										
INTERSECTION 0008: CHESTNUT ST. AT HIGH ST.																										
79	IC-1	61+97, 28'RT										75														
79	IC-2	61+97, 28'RT	62+04, 65' RT									50														
79	TC-1	62+04, 65' RT				2	1			1				1												
79	EC-1	61+97, 28'RT	62+26, 37' LT								128															
79	EC-2	62+26, 37' LT									35															
79	EC-3	62+26, 37' LT	61+96, 37' LT								29															
79	WR-1	61+96, 37' LT														1										
79	PULL BOX SLACK										15	10														
INTERSECTION 0009: CHESTNUT ST. AT THIRD ST.																										
80	TC-1	97+76, 51' RT					1			1																
80	EC-1	97+76, 51' RT	97+62, 31' LT								273															
80	EC-2	97+62, 31' LT									35															
80	EC-3	97+62, 31' LT	97+62, 03' LT								29															
80	WR-1	97+62, 03' LT														1										
80	EC-4	97+62, 31' LT	98+37, 53' LT								146															
80	EC-5	98+37, 53' LT									70															
80	EC-6	98+37, 53' LT	98+18, 52' LT								38															
80	WR-2	98+18, 52' LT														2										
80	PULL BOX SLACK										15															
INTERSECTION 0012 & 0032: SPRING ST. & LONG ST. AT NEIL AVE.																										
81	IC-1	177+50, 35' RT											75													
81	IC-2	177+50, 35' RT	177+54, 136' LT										185													
81	TC-1	177+54, 136' LT				4	1			1					1											
81	PULL BOX SLACK												20													
INTERSECTION 0013: MARCONI BLVD. AT SPRING ST.																										
82	IC-1	191+01, 21' RT										75														
82	IC-2	191+01, 21' RT	191+07, 26' RT									18														
82	TC-1	191+07, 26' RT				2	1			1				1												
INTERSECTION 0014: FRONT ST. AT SPRING ST.																										
83	CTV-1	195+97, 50' LT			1		1	1	1																	
83	EC-1	194+26, 13' RT	196+76, 42' LT	351																						
83	IC-1	196+66, 40' RT											75													
83	IC-2	196+66, 40' RT	196+76, 42' LT										107													
83	TC-1	196+76, 42' LT				4	1		1	1					1											
83	PULL BOX SLACK												10													



HIGH ST AT SPRING ST - 0015

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 480

INT #0015 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 480

NOTES:

1. SEE SHEET 480 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 89 FOR INTERSECTION QUANTITIES
3. SEE SHEET 774 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

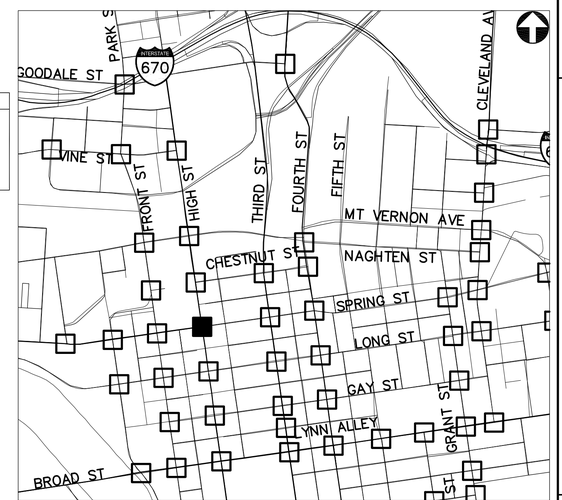
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT SPRING ST INTERSECTION 0015

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

85
1107

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FOURTH ST AT SPRING ST - 0017

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 76

PROPOSED WIRELESS SEE SHEET 87

INT #0017 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED CITYNET

PROPOSED WIRELESS SEE SHEET 98

PROPOSED CITYNET

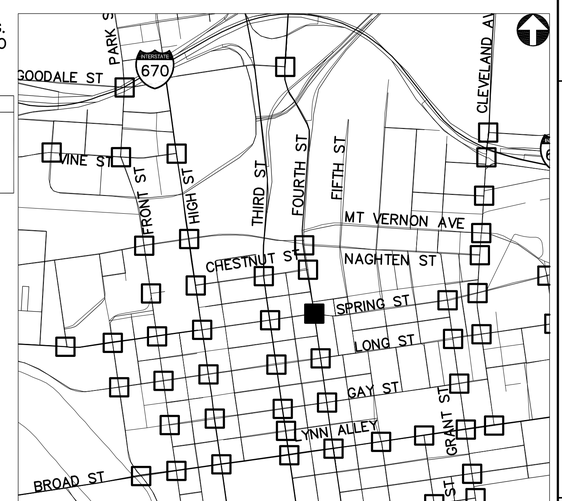
NOTES:

1. SEE SHEET 89 FOR INTERSECTION QUANTITIES
2. SEE SHEET 776 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAIL.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

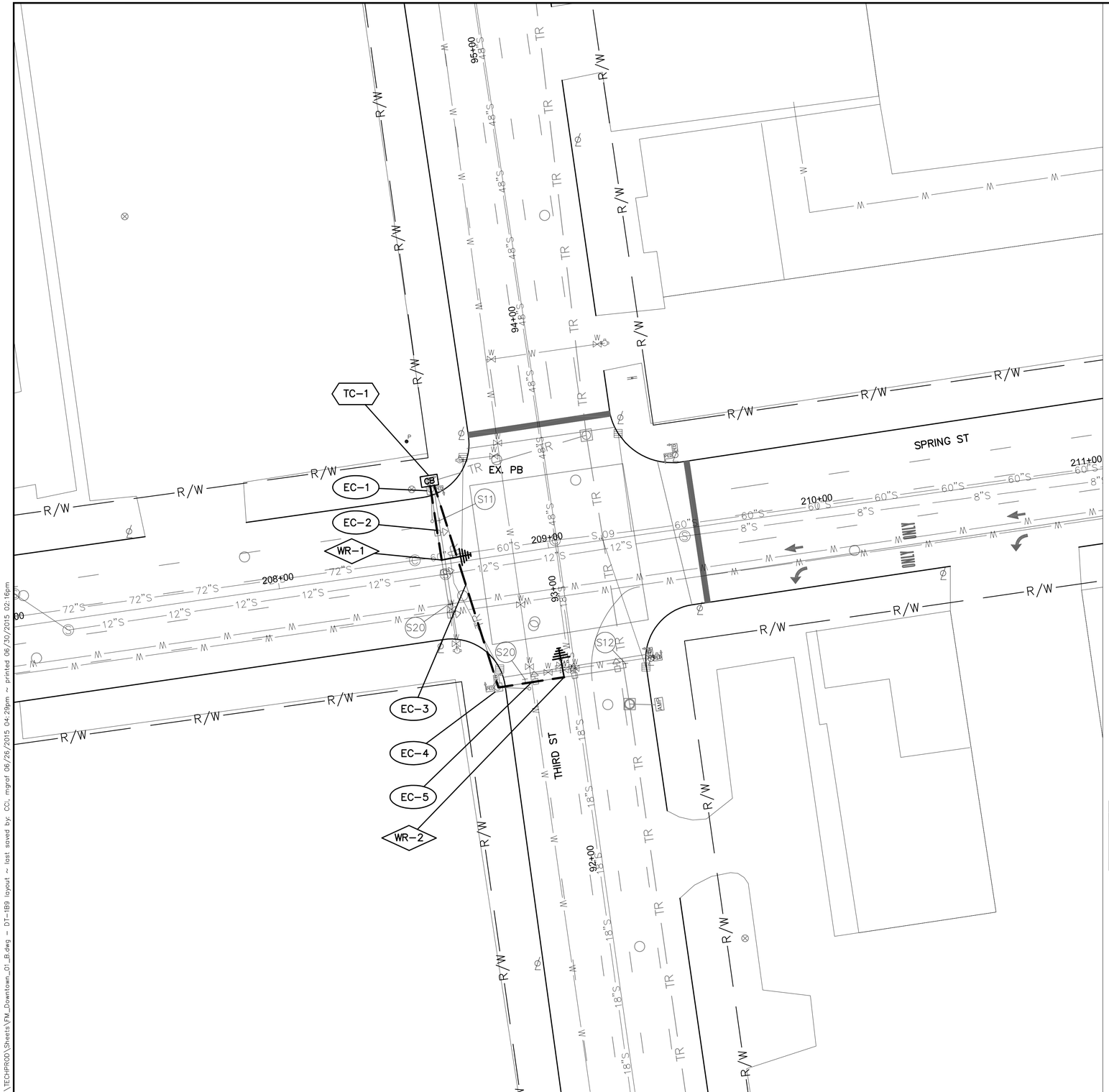
PID NUMBER 13034

FOURTH ST AT SPRING ST INTERSECTION 0017

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

86
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 80

INT #0016 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 86

NOTES:

1. SEE SHEET 89 FOR INTERSECTION QUANTITIES
2. SEE SHEET 775 FOR COMMUNICATION DETAILS.
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

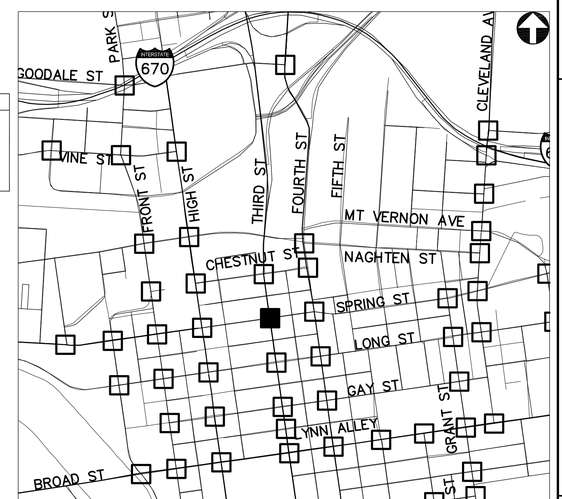
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

SPRING ST AT THIRD ST - 0016

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

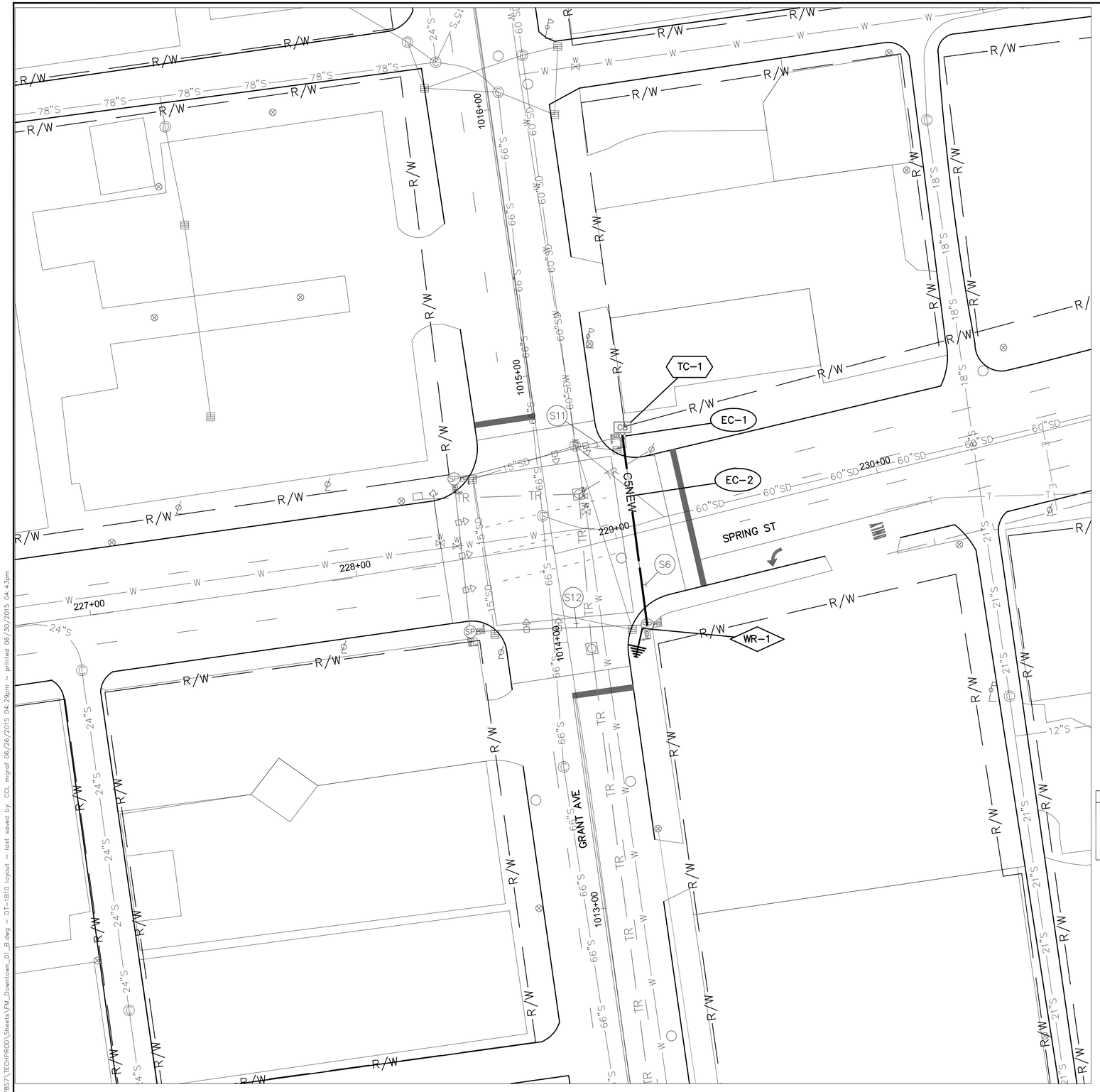
PID NUMBER 13034

SPRING ST AT THIRD ST
INTERSECTION 0016

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

87
1107

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GRANT AVE AT SPRING ST - 0018

INTERSECTION COMMUNICATIONS

INT #0018 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 101

NOTES:

1. SEE SHEET 89 FOR INTERSECTION QUANTITIES
2. SEE SHEET 777 FOR COMMUNICATION DETAILS.
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

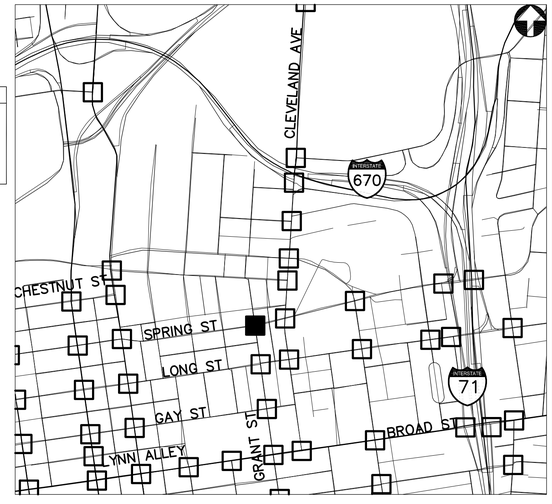
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GRANT AVE AT SPRING ST
INTERSECTION 0018

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

88
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	632	633	633	633	633	633	804	804	804		815										
				CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *	SPREAD SPECTRUM RADIO, AS PER PLAN									
		FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH										
INTERSECTION 0015: HIGH ST. AT SPRING ST.																										
85	IC-1	56+73, 26' LT										75														
85	IC-2	56+73, 26' LT	56+54, 63' LT									52														
85	TC-1	56+54, 63' LT					2	1		1			1													
INTERSECTION 0017: FOURTH ST. AT SPRING ST.																										
86	SE U-1	1093+89, 07' LT												1	18											
86	IC-1	1093+89, 07' LT										75														
86	IC-2	1093+89, 07' LT	1093+47, 16' RT	47	47							47														
86	IC-3	1093+47, 16' RT	1093+72, 31' RT									39														
86	TC-1	1093+72, 31' RT					2	1		1			1													
86	EC-1	1093+72, 31' RT									35															
86	EC-2	1093+72, 31' RT	1093+72, 04' RT								27															
86	WR-1	1093+72, 04' RT														2										
86	EC-3	1093+72, 31' RT	1093+44, 42' LT								96															
86	EC-4	1093+44, 42' LT									35															
86	EC-5	1093+44, 42' LT	1093+18, 42' LT								26															
86	WR-2	1093+18, 42' LT														1										
86	PULL BOX SLACK										5	10														
INTERSECTION 0016: SPRING ST. AT THIRD ST.																										
87	TC-1	93+43, 43' LT						1		1																
87	EC-1	93+43, 43' LT									35															
87	EC-2	93+43, 43' LT	93+17, 43' LT								26															
87	WR-1	93+17, 43' LT														1										
87	EC-3	93+43, 43' LT	92+67, 29' LT								77															
87	EC-4	92+67, 29' LT									35															
87	EC-5	92+67, 29' LT	92+67, 04' LT								25															
87	WR-2	92+67, 04' LT														1										
INTERSECTION 0018: GRANT AVE. AT SPRING ST.																										
88	TC-1	1014+73, 31' RT						1	1																	
88	EC-1	1014+73, 31' RT									35															
88	EC-2	1014+73, 31' RT	1014+1, 28'RT			71					71															
88	WR-1	1014+1, 28'RT														1										

144 STRAND FIBER OPTIC CABLE

EX. P.B., TRF, COVERED BY ASPHALT.

EX. 32" P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET.

EX. P.B., TRF, COVERED BY ASPHALT.

DOPW(P) UG ST LIGHTING

EX. 36" P.B., CITYNET–"GATEWAY COLUMBUS" W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTE #3 THIS SHEET

SPRING ST

CLEVELAND AVE

IC–1 IC–2 IC–3 IC–4 TC–1 SE U–1

UGFBR

24" P.B

15+00 | 16+00 | 14+00 | 13+00 | 231+00 | 232+00 | 233+00 | 234+00

CLEVELAND AVE AT SPRING ST - 0019

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 512

PROPOSED CITYNET — INT #0019 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED CITYNET

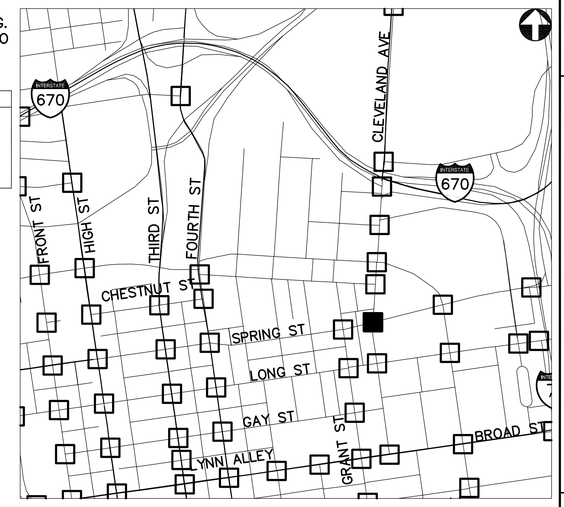
NOTES:

1. SEE SHEET 512 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 95 FOR INTERSECTION QUANTITIES
3. SEE SHEET 778 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 44 FOR PAVEMENT DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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OHIO UTILITIES PROTECTION SERVICE

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

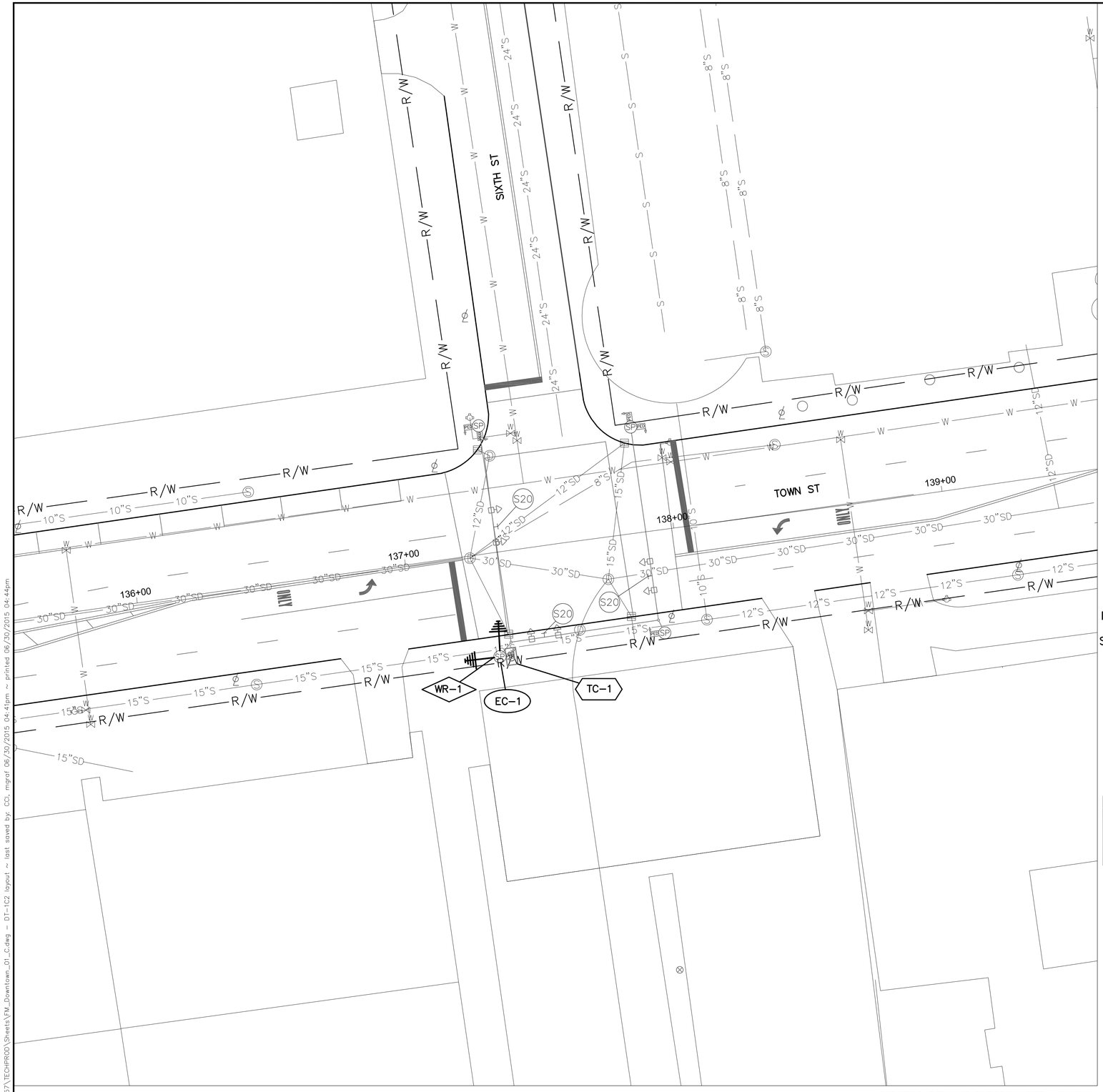
PID NUMBER 13034

CLEVELAND AVE AT SPRING ST
INTERSECTION 0019

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

90
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 135

PROPOSED WIRELESS SEE SHEET 141

INT #0021 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 95 FOR INTERSECTION QUANTITIES
2. SEE SHEET 780 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

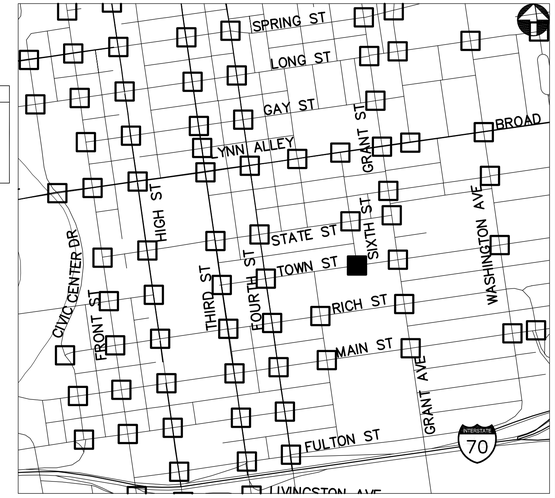
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CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

SIXTH ST AT TOWN ST - 0021

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

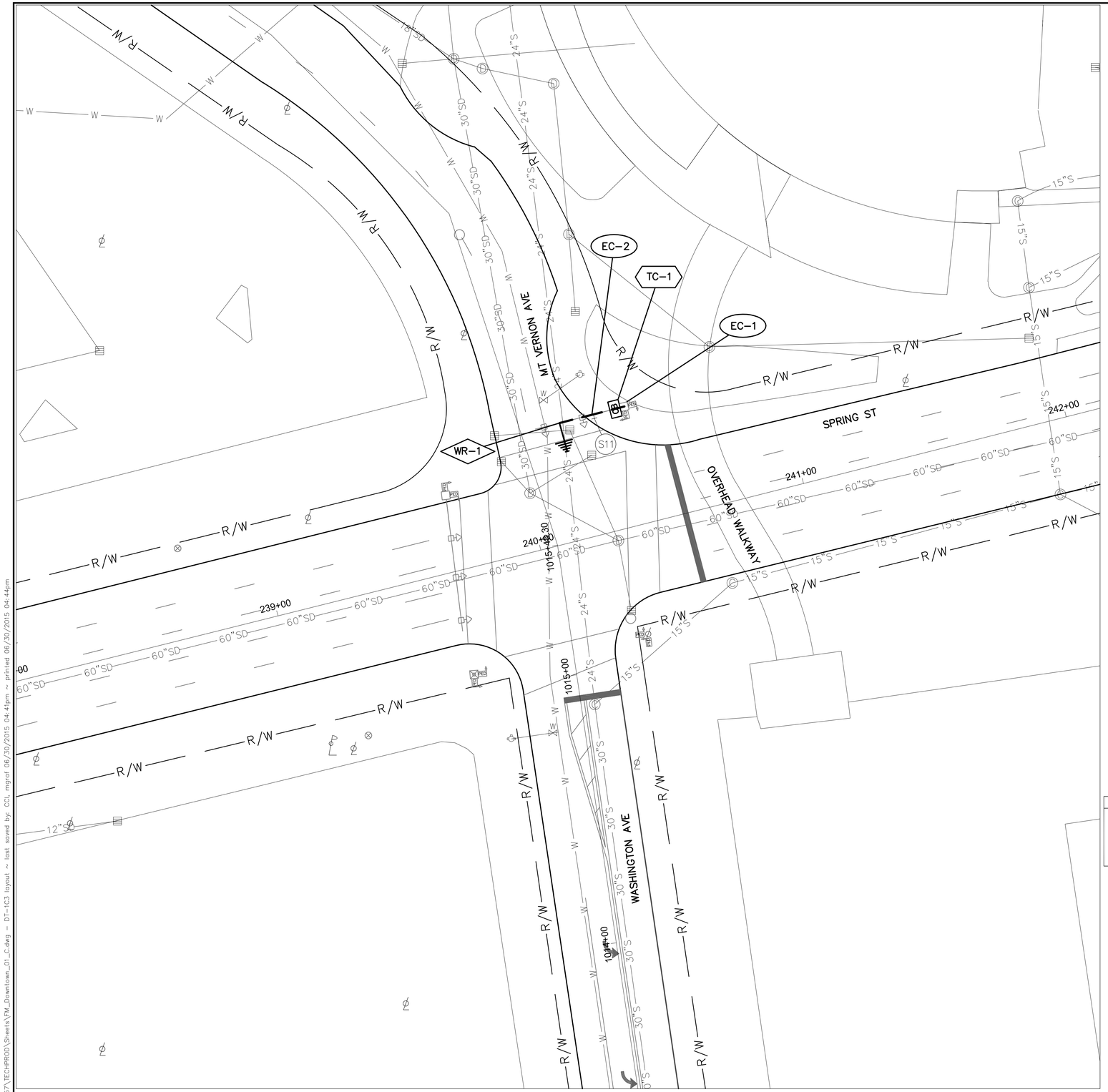
PID NUMBER 13034

SIXTH ST AT TOWN ST
INTERSECTION 0021

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

91
1107

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SPRING ST AT WASHINGTON AVE - 0020

INTERSECTION COMMUNICATIONS

INT #0020 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 99

NOTES:

1. SEE SHEET 95 FOR INTERSECTION QUANTITIES
2. SEE SHEET 779 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

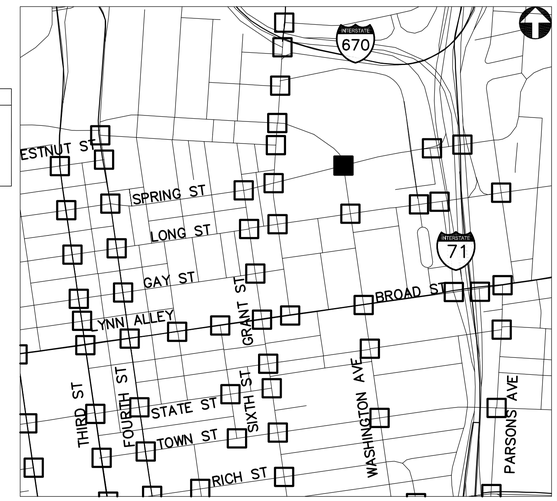
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

SPRING ST AT WASHINGTON AVE
INTERSECTION 0020

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

92
1107

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LONG ST AT MARCONI BLVD - 0022

INTERSECTION COMMUNICATIONS

INT #0022 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 495

NOTES:

1. SEE SHEET 495 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 95 FOR INTERSECTION QUANTITIES
3. SEE SHEET 781 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

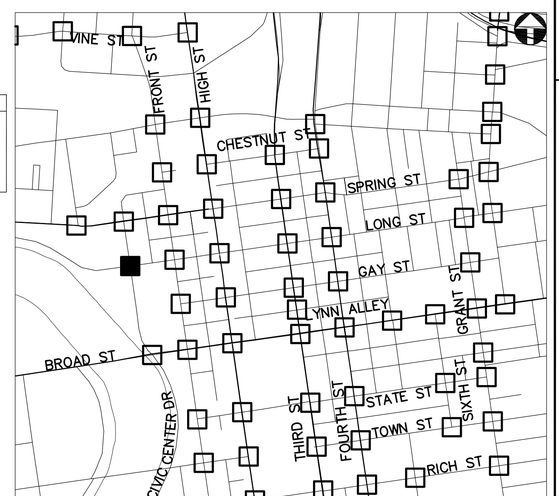
TWO WORKING DAYS BEFORE YOU DIG

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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

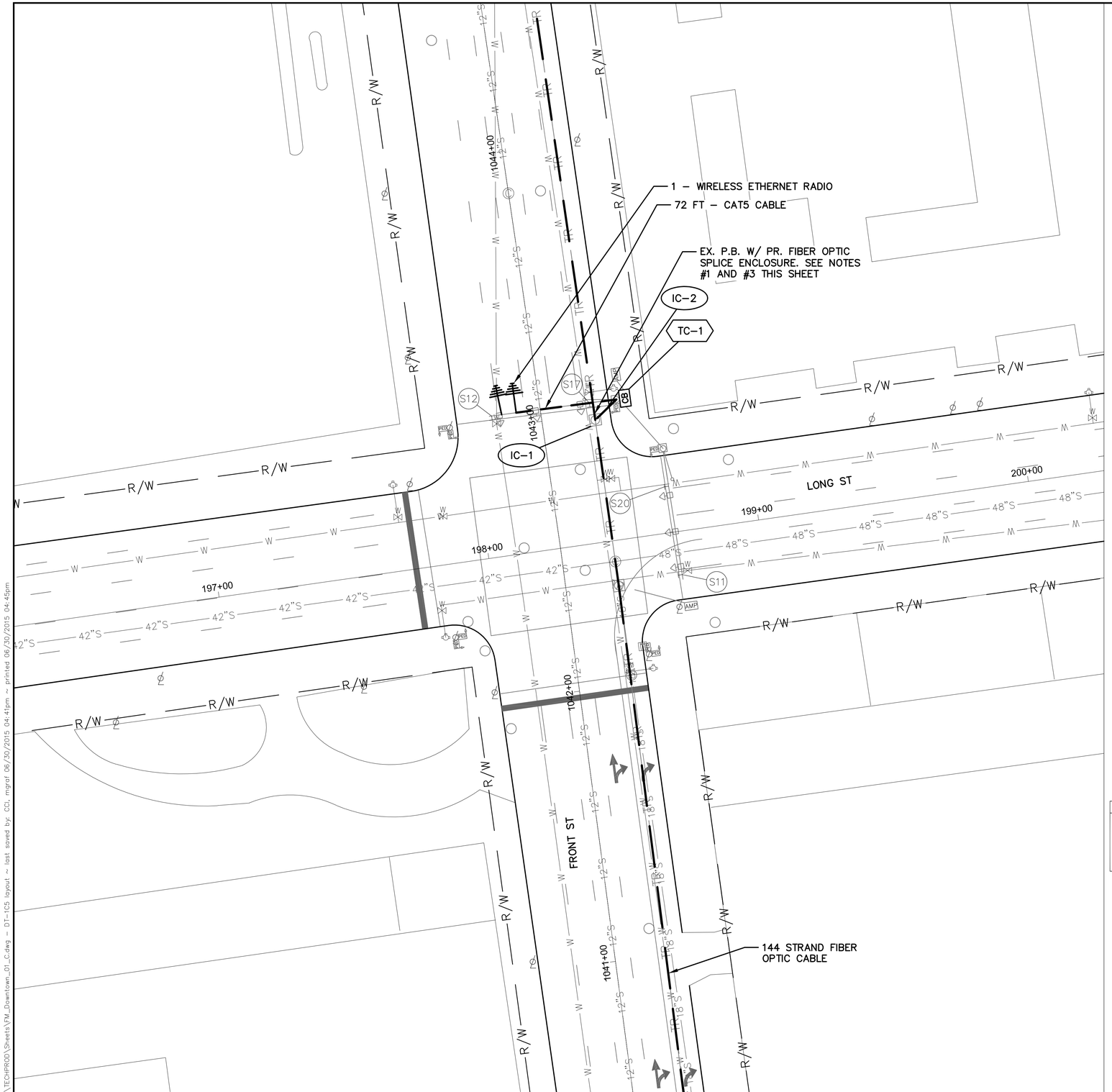
PID NUMBER 13034

LONG ST AT MARCONI BLVD INTERSECTION 0022

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

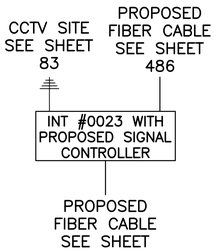
93
1107

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FRONT ST AT LONG ST - 0023

INTERSECTION COMMUNICATIONS

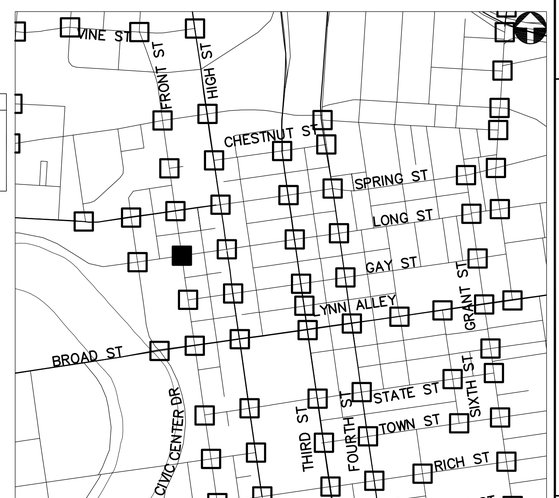


NOTES:

1. SEE SHEET 486 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 95 FOR INTERSECTION QUANTITIES
3. SEE SHEET 782 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. REMOVE WIRELESS ETHERNET RADIO AT INT #0008 AND RE–INSTALL AS SHOWN ON THIS SHEET

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT LONG ST
INTERSECTION 0023

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

94
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		202	202	608	609	625	625	633	633	633	633	633	804	804	804		815							
				CURB REMOVED	WALK REMOVED	8" CONCRETE WALK, AS PER PLAN	CURB, STRAIGHT 18", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN*	SPREAD SPECTRUM RADIO, AS PER PLAN							
		FROM	TO	FT	SF	SF	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH							
INTERSECTION 0019: CLEVELAND AVE. AT SPRING ST.																										
90	SE U-1	14+12, 81' LT															1	18								
90	IC-1	14+12, 81' LT													75											
90	IC-2	14+12, 81' LT	14+37, 16' LT	10	50	50	10	73	73						73											
90	IC-3	14+37, 16' LT													75											
90	IC-4	14+37, 16' LT	14+20, 33' LT												72											
90	TC-1	14+20, 33' LT								4	1		1			2										
90	PULL BOX SLACK														10											
INTERSECTION 0021: SIXTH ST. AT TOWN ST.																										
91	TC-1	137+30, 38' RT									1	1														
91	EC-1	137+30, 38' RT												70												
91	WR-1	137+30, 38' RT																	2							
INTERSECTION 0020: SPRING ST. AT WASHINGTON AVE.																										
92	TC-1	240+43, 44' LT									1		1													
92	EC-1	240+43, 44' LT												35												
92	EC-2	240+43, 44' LT	240+18, 44' LT											25												
92	WR-1	240+18, 44 'LT																	1							
INTERSECTION 0022: LONG ST. AT MARCONI BLVD.																										
93	IC-1	141+24, 08' RT													75											
93	IC-2	141+24, 08' RT	141+42, 47' RT												53											
93	TC-1	141+42, 47' RT								1	1		1			1										
INTERSECTION 0023: FRONT ST. AT LONG ST.																										
94	IC-1	1042+98, 19' RT													75											
94	IC-2	1042+98, 19' RT	1043+04, 28' RT												21											
94	TC-1	1043+04, 28' RT								2	1		1			1										
		SHEET TOTAL		10	50	50	10	73	73	7	5	1	4	130	529	4	1	18	3	-	-	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

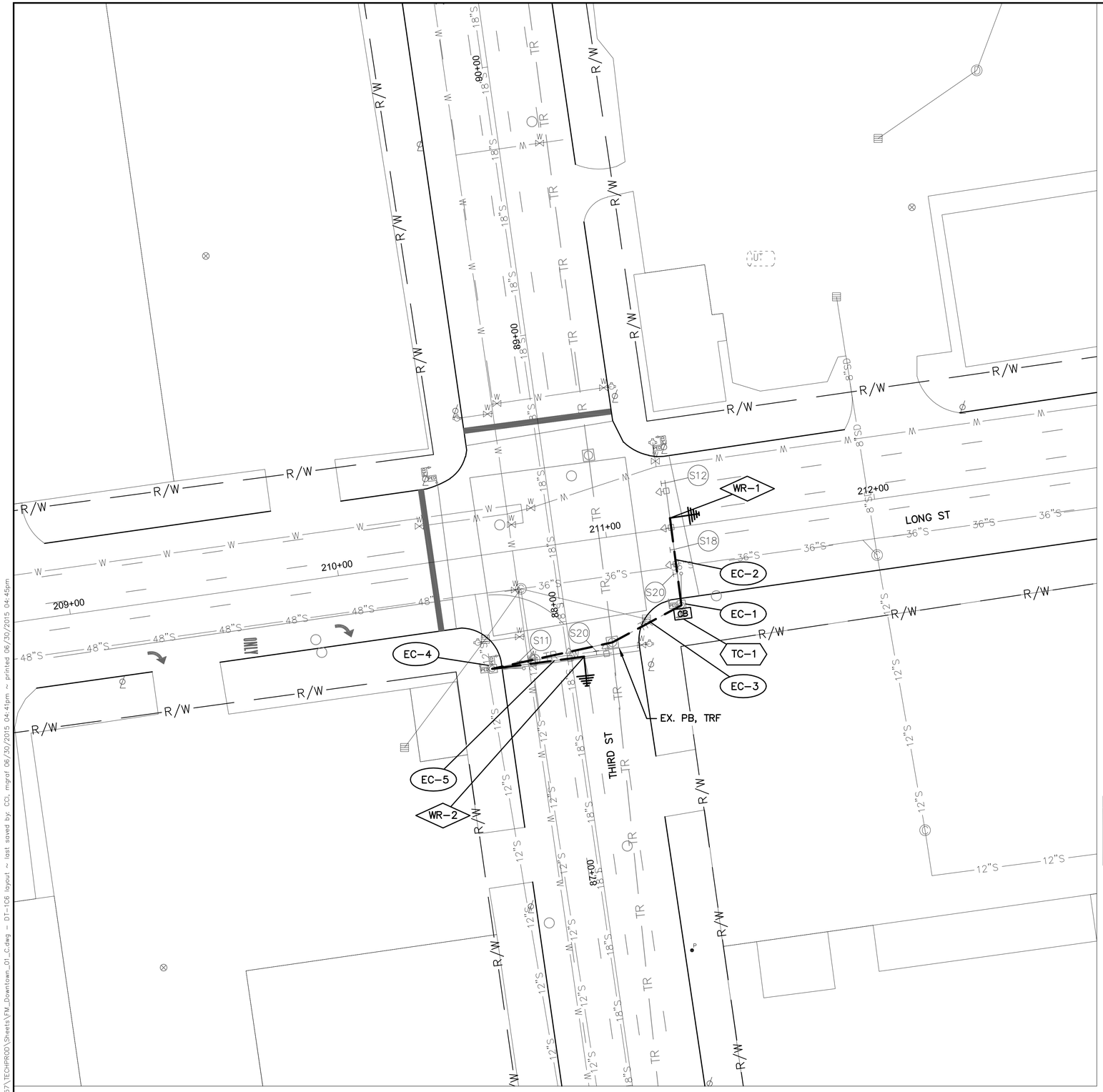
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0019, 0021, 0022 AND 0023

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

95
1107

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LONG ST AT THIRD ST - 0025

INTERSECTION COMMUNICATIONS

INT #0025 WITH PROPOSED SIGNAL CONTROLLER → PROPOSED WIRELESS SEE SHEET 98

PROPOSED WIRELESS SEE SHEET 107

NOTES:

1. SEE SHEET 100 FOR INTERSECTION QUANTITIES
2. SEE SHEET 784 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

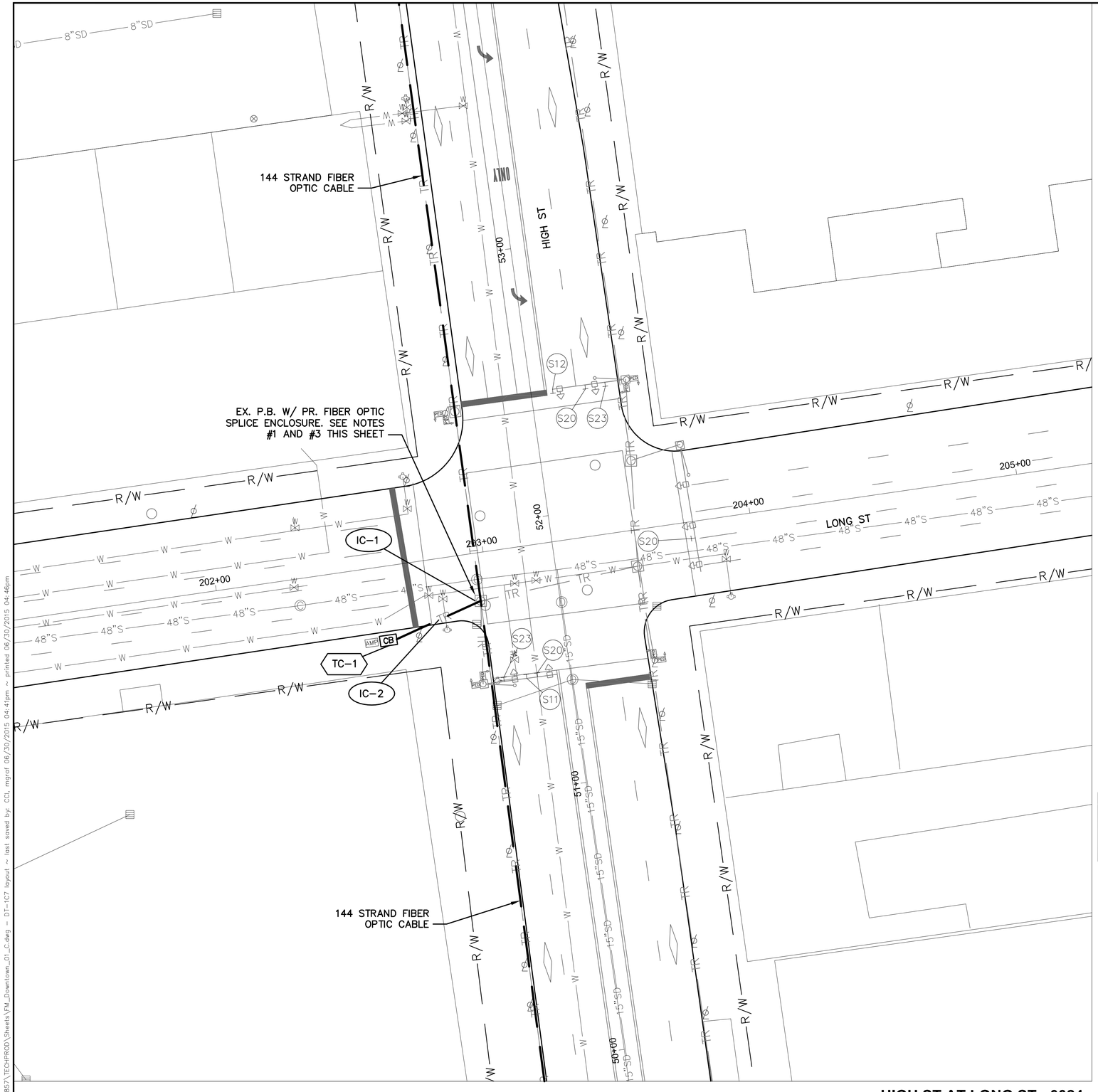
PID NUMBER 13034

LONG ST AT THIRD ST
INTERSECTION 0025

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

96
1107

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HIGH ST AT LONG ST - 0024

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 480

INT #0024 WITH PROPOSED SIGNAL CONTROLLER

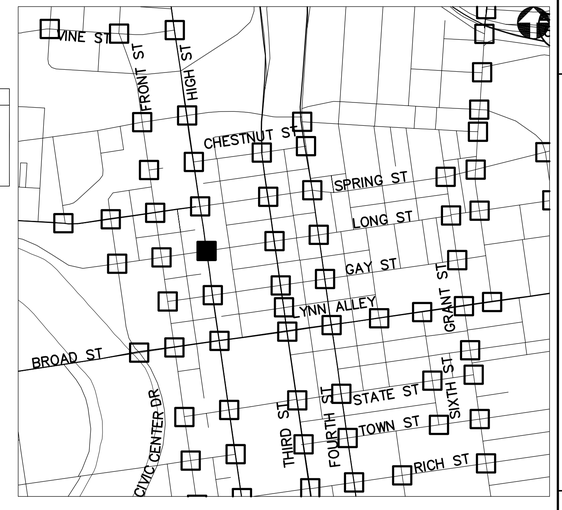
PROPOSED FIBER CABLE SEE SHEET 480

NOTES:

1. SEE SHEET 480 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 100 FOR INTERSECTION QUANTITIES
3. SEE SHEET 783 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

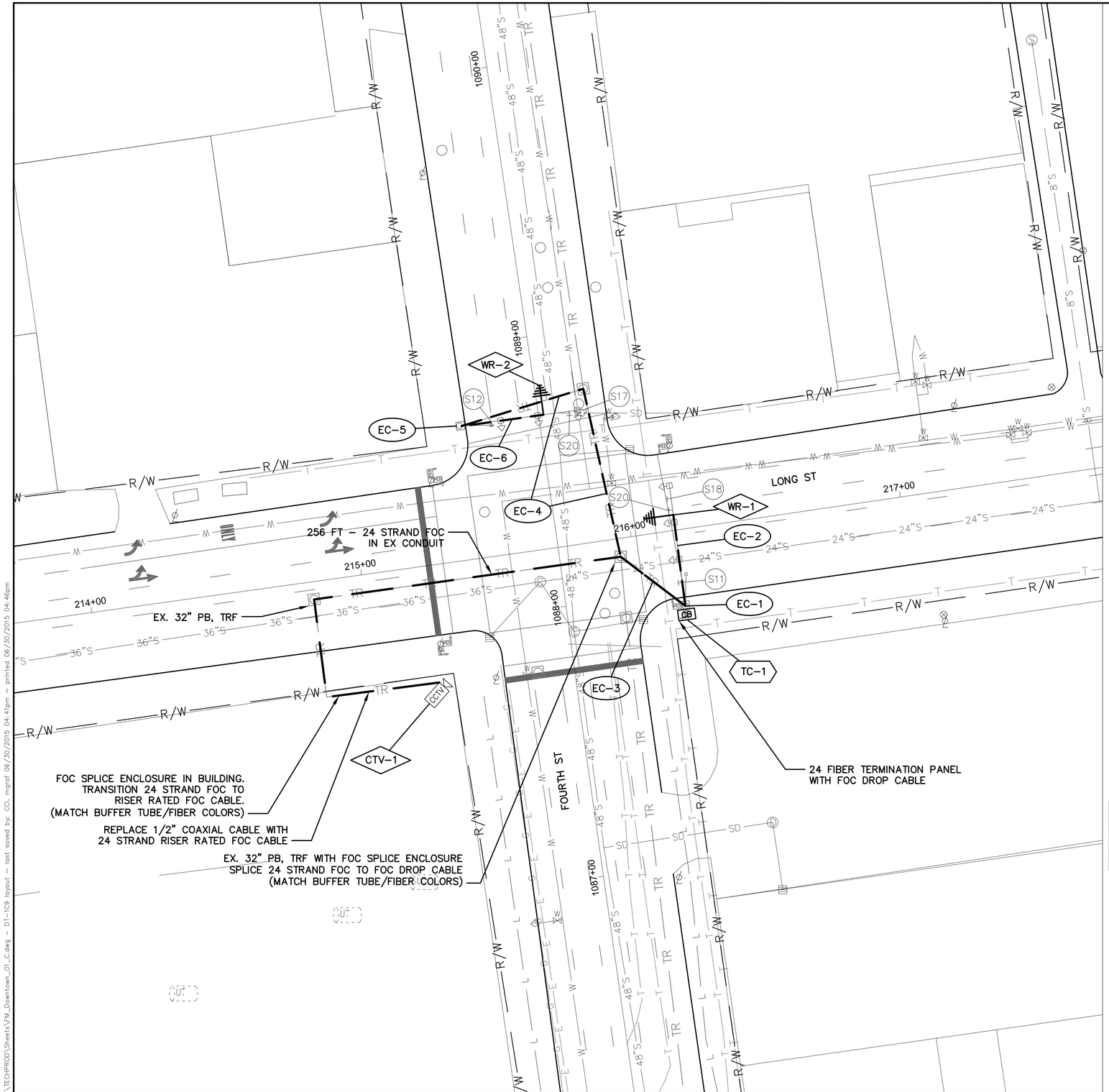
PID NUMBER 13034

HIGH ST AT LONG ST INTERSECTION 0024

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

97
1107

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FOURTH ST AT LONG ST - 0026

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 86

PROPOSED WIRELESS SEE SHEET 96

INT #0026 WITH PROPOSED SIGNAL CONTROLLER

CCTV SITE

NOTES:

1. SEE SHEET 100 FOR INTERSECTION QUANTITIES
2. SEE SHEET 785 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. EXISTING CCTV MOUNTED ON BUILDING ROOF. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROPERTY OWNER PRIOR TO START OF WORK

UNDERGROUND UTILITIES

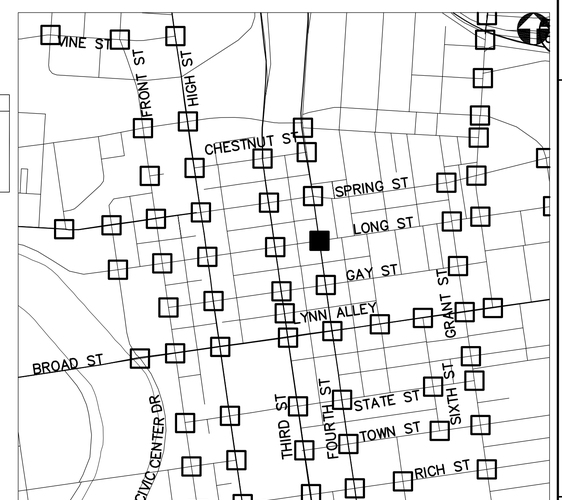
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

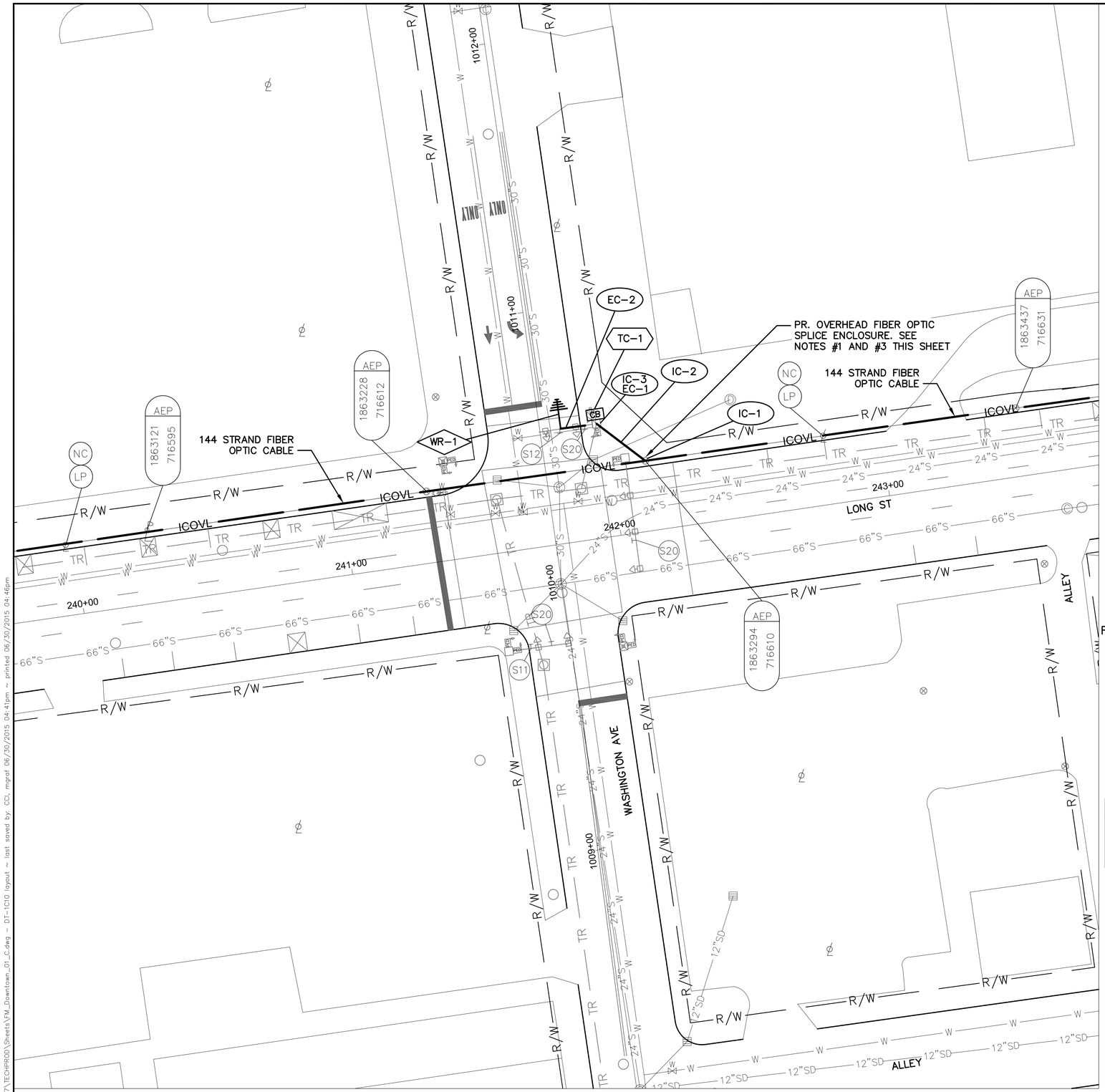
HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

FOURTH ST AT LONG ST
INTERSECTION 0026

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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LONG ST AT WASHINGTON AVE - 0029

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 92

PROPOSED FIBER CABLE SEE SHEET 515

INT #0029 WITH PROPOSED SIGNAL CONTROLLER

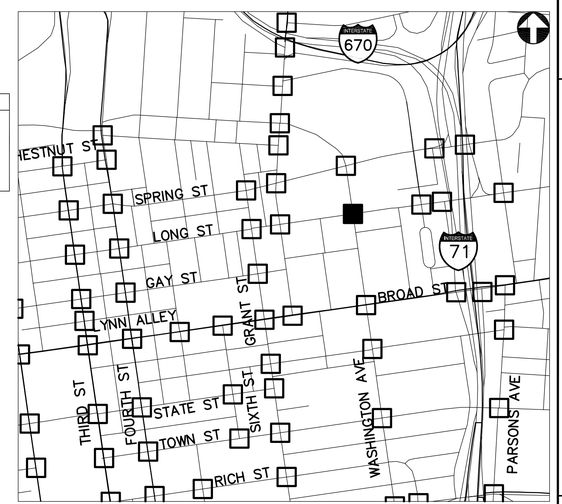
PROPOSED FIBER CABLE SEE SHEET 515

NOTES:

1. SEE SHEET 515 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 100 FOR INTERSECTION QUANTITIES
3. SEE SHEET 788 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

LONG ST AT WASHINGTON AVE
INTERSECTION 0029

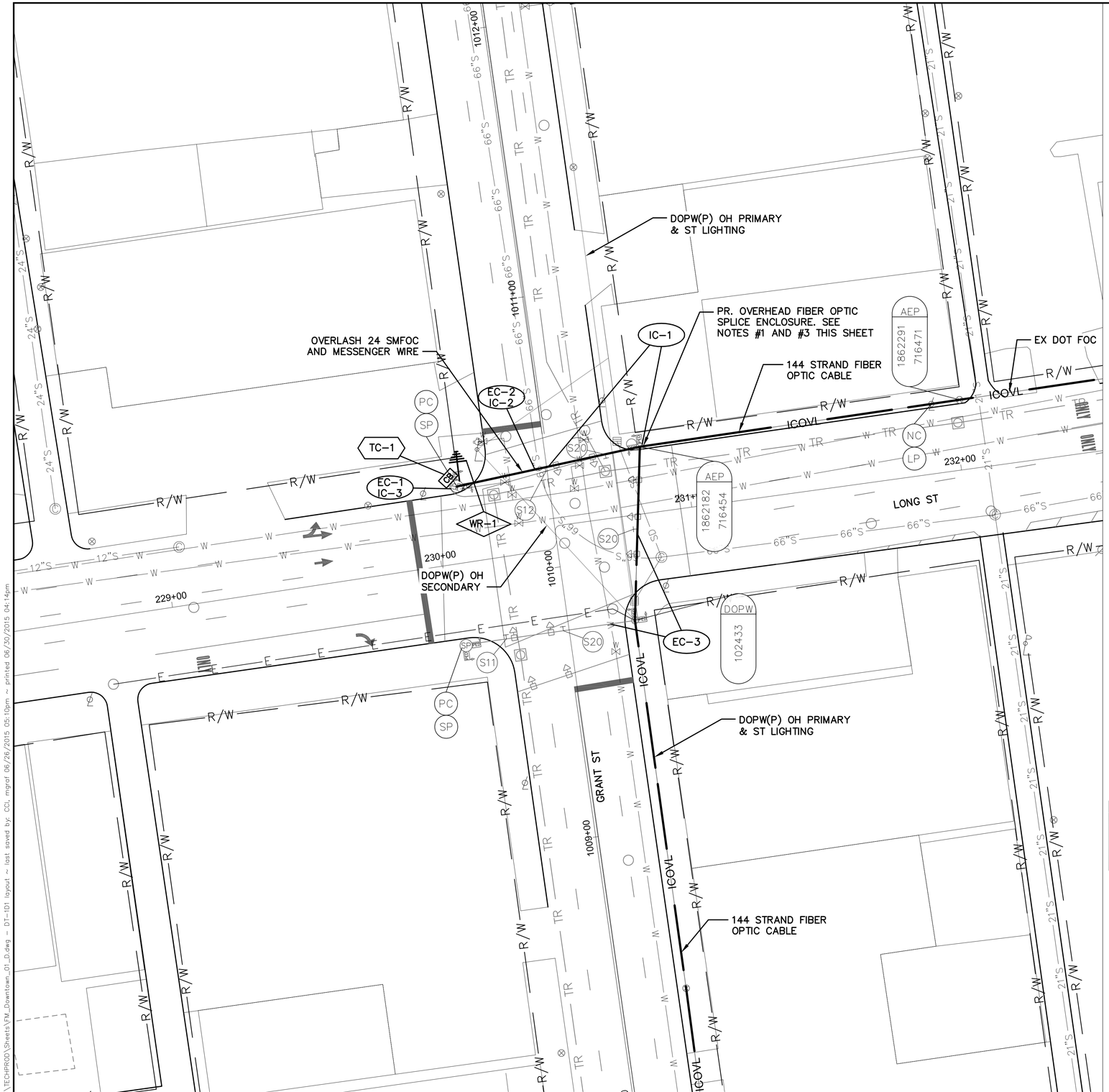
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

99
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE (FT)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)	633 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	815 SPREAD SPECTRUM RADIO, AS PER PLAN (EACH)
INTERSECTION 0025: LONG ST. AT THIRD ST.															
96	TC-1	211+24, 29' RT						1			1				
96	EC-1	211+24, 29' RT										35			
96	EC-2	211+24, 29' RT	211+24, 04' LT									33			
96	WR-1	211+24, 04' LT													1
96	EC-3	211+24, 29' RT	210+51, 42' RT									74			
96	EC-4	210+51, 42' RT										35			
96	EC-5	210+51, 42' RT	210+86, 42' RT									34			
96	WR-2	210+86, 42' RT													1
96	PULL BOX SLACK											5			
INTERSECTION 0024: HIGH ST. AT LONG ST.															
97	IC-1	202+97, 18' RT											75		
97	IC-2	202+97, 18' RT	202+61, 27' RT										47		
97	TC-1	202+61, 27' RT					2	1			1			1	
97	PULL BOX SLACK											15			
INTERSECTION 0026: FOURTH ST. AT LONG. ST.															
98	TC-1	216+16, 28' RT						1		1	1				
98	EC-1	216+16, 28' RT										35			
98	EC-2	216+16, 28' RT	216+17, 06' LT									34			
98	WR-1	216+17, 06' LT													1
98	EC-3	216+16, 28' RT	215+95, 07' RT	30								30			
98	EC-4	215+95, 07' RT	215+43, 49' LT									111			
98	EC-5	215+43, 49' LT										35			
98	EC-6	215+43, 49' LT	215+75, 49' LT									31			
98	WR-2	215+75, 49' LT													1
98	CTV-1	215+23, 43' RT				1		1	1	1					
98	PULL BOX SLACK			5								10			
INTERSECTION 0029: LONG ST. AT WASHINGTON AVE.															
99	IC-1	242+13, 26' LT											75		
99	IC-2	242+13, 26' LT	241+97, 42' LT		23								23		
99	IC-3	241+97, 42' LT											35		
99	TC-1	241+97, 42' LT					2	1			1			1	
99	EC-1	241+97, 42' LT										35			
99	EC-2	241+97, 42' LT	241+84, 42' LT									13			
99	WR-1	241+84, 42' LT													1



GRANT ST AT LONG ST - 0027

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 88

INT #0027 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 515

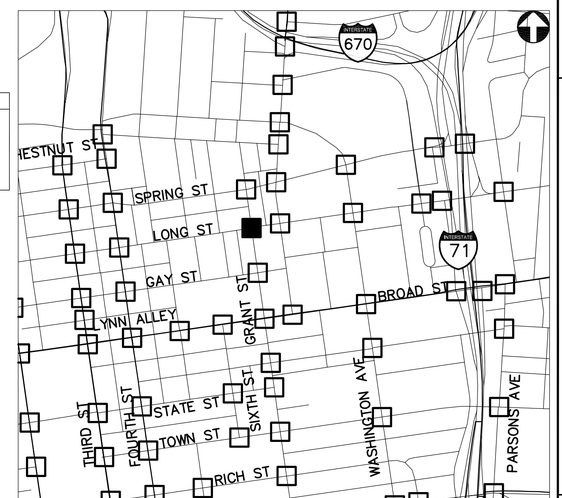
PROPOSED FIBER CABLE SEE SHEET 515

NOTES:

1. SEE SHEET 515 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 106 FOR INTERSECTION QUANTITIES
3. SEE SHEET 786 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

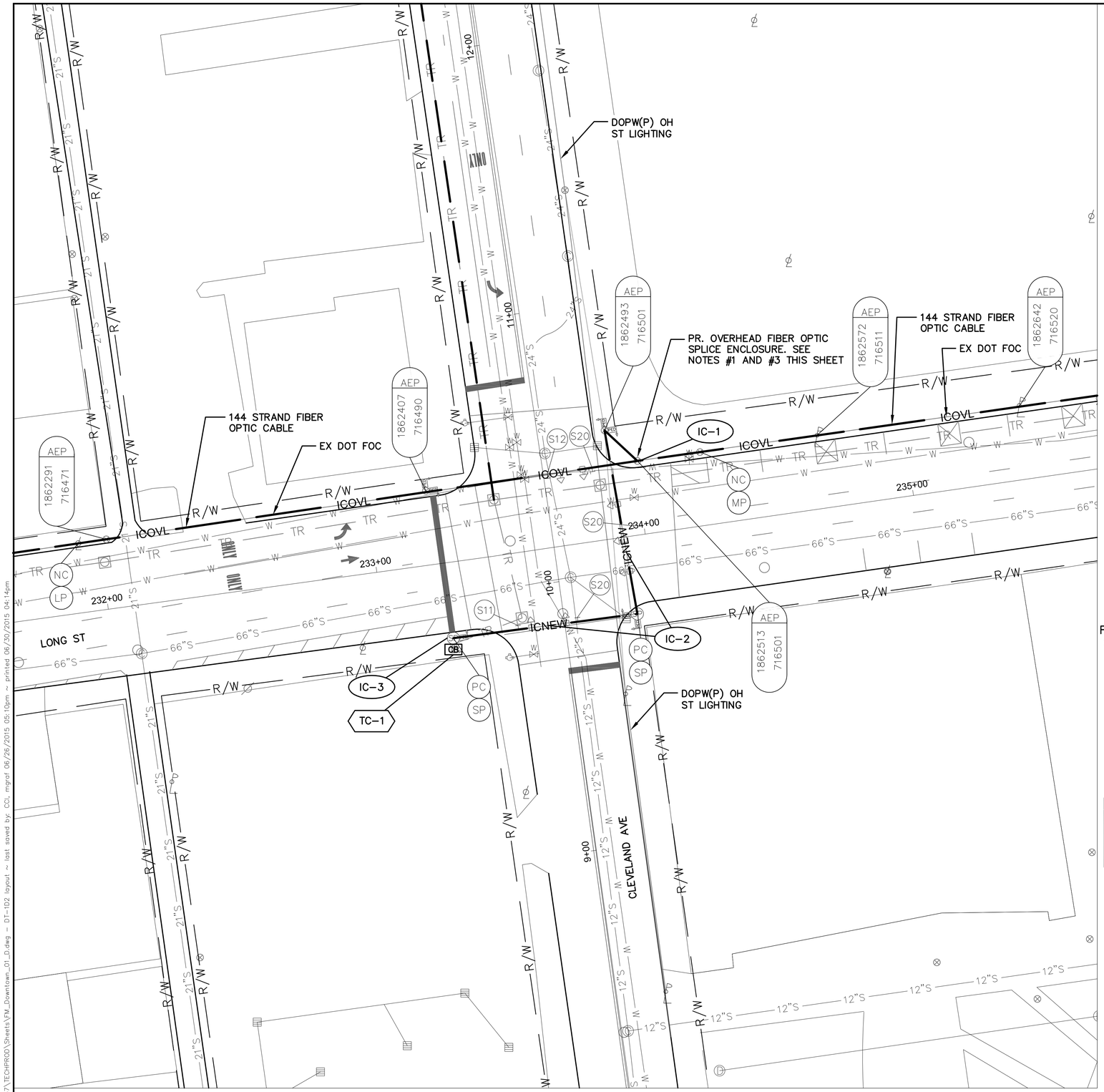
PID NUMBER 13034

GRANT ST AT LONG ST INTERSECTION 0027

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

101
1107

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CLEVELAND AVE AT LONG ST - 0028

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 515 — INT #0028 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 515

NOTES:

1. SEE SHEET 515 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 106 FOR INTERSECTION QUANTITIES
3. SEE SHEET 787 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

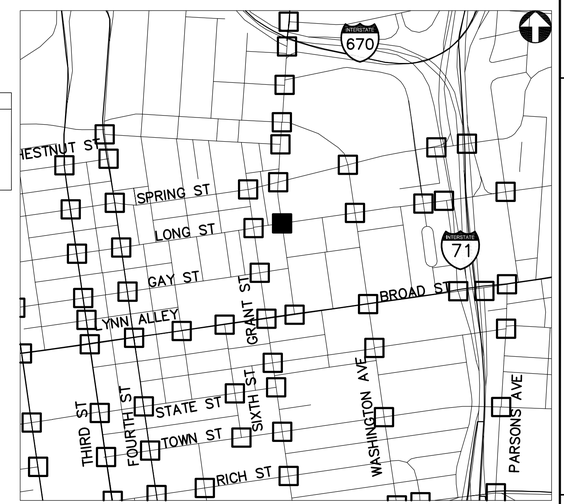
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT LONG ST
INTERSECTION 0028

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

102
1107

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144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

TC–1

CTV–1

IC–2

IC–1

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

CIVIC CENTER DR

RICH ST

SECOND ST

ALLEY

114+00

113+00

112+00

111+00

25+00

26+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 494

INT #0031 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 495

PROPOSED FIBER CABLE SEE SHEET 494

NOTES:

1. SEE SHEETS 494 AND 495 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 106 FOR INTERSECTION QUANTITIES

3. SEE SHEET 790 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP–CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

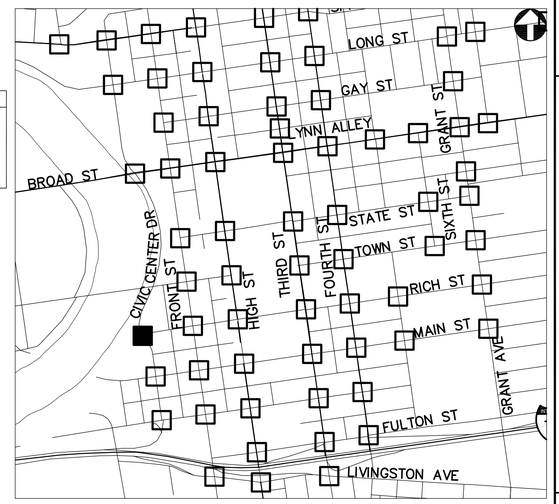
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800–362–2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

CIVIC CENTER DR AND SECOND ST AT RICH ST - 0031

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CIVIC CENTER DR AND SECOND ST AT RICH ST
INTERSECTION 0031

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

103
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

WR-1

IC-2

TC-1

TC-1

144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

GAY ST

FRONT ST

1039+00

1038+00

1037+00

1036+00

17+00

16+00

15+00

14+00

FRONT ST AT GAY ST - 0033

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 486

PROPOSED FIBER CABLE SEE SHEET 491

INT #0033 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 491

PROPOSED WIRELESS SEE SHEET 114

NOTES:

1. SEE SHEETS 486 AND 491 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 106 FOR INTERSECTION QUANTITIES
3. SEE SHEET 791 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT GAY ST INTERSECTION 0033

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

104
1107

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144 STRAND FIBER OPTIC CABLE

24 FIBER TERMINATION PANEL WITH FOC DROP CABLE

TC-1

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET SPLICE 24 STRAND FOC TO FOC DROP CABLE (MATCH BUFFER TUBE/FIBER COLORS)

IC-2

582 FT – 24 STRAND FOC IN EXISTING CONDUIT

144 STRAND FIBER OPTIC CABLE

IC-1

CCTV

CTV-1

EX. PB, TRF

REPLACE EX 1/2" COAXIAL CABLE WITH 24 STRAND RISER RATED FOC CABLE

144 STRAND FIBER OPTIC CABLE

FOC SPLICE ENCLOSURE IN BUILDING TRANSITION 24 STRAND FOC TO RISER RATED FOC CABLE (MATCH BUFFER TUBE/FIBER COLORS)

GAY ST

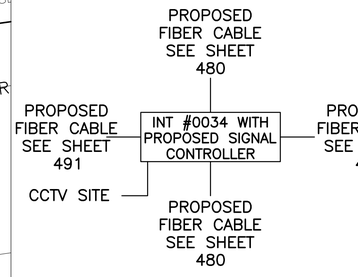
HIGH ST

WALL ST

18+00 19+00 21+00 46+00 47+00 48+00 49+00

GAY ST AT HIGH ST - 0034

INTERSECTION COMMUNICATIONS



NOTES:

1. SEE SHEETS 480 AND 491 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 106 FOR INTERSECTION QUANTITIES
3. SEE SHEET 792 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. EXISTING CCTV MOUNTED ON BUILDING ROOF. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROPERTY OWNER PRIOR TO START OF WORK

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GAY ST AT HIGH ST
INTERSECTION 0034

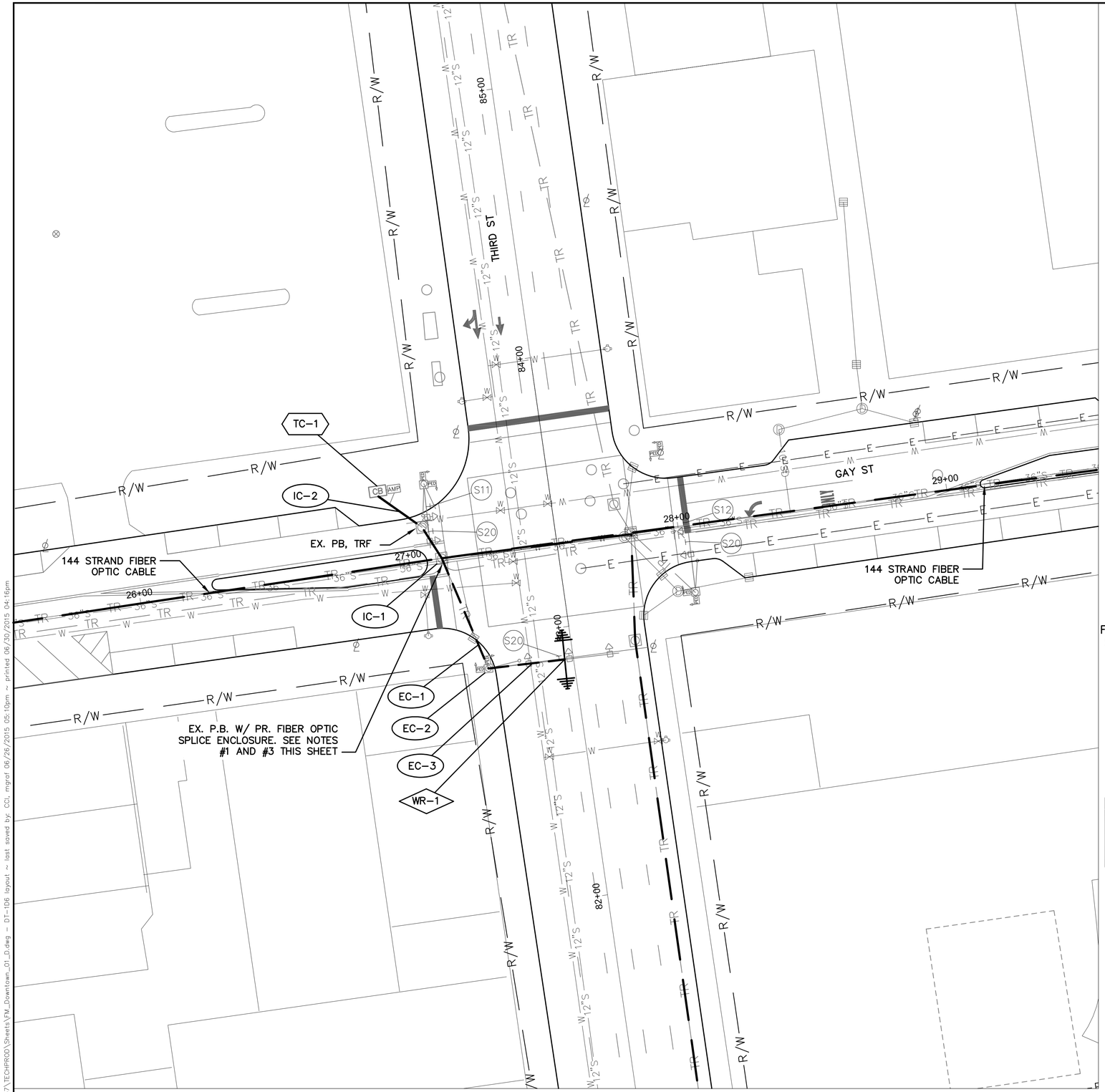
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

105
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	632	632	632	633	633	633	633	633	633	633	633	804	804	804	804	815					
				BRACKET ARM, 30', AS PER PLAN	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN					
		FROM	TO	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH	EACH					
INTERSECTION 0027: GRANT AVE. AT LONG ST.																									
101	IC-1	1010+40, 35' RT														75									
101	IC-2	1010+40, 35' RT	1010+34, 34' LT			69										69									
101	IC-3	1010+34, 34' LT														35									
101	TC-1	1010+34, 34' LT							2	1			1					1							
101	EC-1	1010+34, 34' LT												35											
101	EC-2	1010+34, 34' LT	1010+40, 35' RT											67	67										
101	EC-3	1010+40, 35' RT	1009+76, 38' LT			127								127											
101	WR-1	1009+76, 38' LT																		1					
INTERSECTION 0028: CLEVELAND AVE. AT LONG ST.																									
102	IC-1	234+01, 27' LT														75									
102	IC-2	234+01, 27' LT	233+25, 28' RT			154										154									
102	IC-3	233+25, 28' RT														35									
102	TC-1	233+25, 28' RT							2	1			1					1							
INTERSECTION 0031: CIVIC CENTER DR. AT RICH ST.																									
103	IC-1	112+33, 32' LT															75								
103	IC-2	112+33, 32' LT	113+10, 37' LT														114								
103	TC-1	113+10, 37' LT							3	1	1								1						
103	CTV-1	113+03, 41' LT		1			1										10								
103	PULL BOX SLACK																10								
INTERSECTION 0033: FRONT ST. AT GAY ST.																									
104	IC-1	1037+86, 21' RT															75								
104	IC-2	1037+86, 21' RT	1037+92, 48' RT														41								
104	TC-1	1037+92, 48' RT							4	1	1								1						
INTERSECTION 0034: GAY ST. AT HIGH ST.																									
105	CTV-1	46+51, 59' LT						1		1	1	1													
105	EC-1	46+88, 243' LT	47+29, 64' LT		224																				
105	IC-1	46+97, 64' LT															75								
105	IC-2	46+97, 64' LT	47+29, 64' LT														42								
105	TC-1	47+29, 64' LT							4	1		1	1						1						
105	PULL BOX SLACK				10																				



INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 96

PROPOSED FIBER CABLE SEE SHEET 491

INT #0035 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 491

PROPOSED WIRELESS SEE SHEET 108

NOTES:

1. SEE SHEET 491 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 112 FOR INTERSECTION QUANTITIES
3. SEE SHEET 793 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

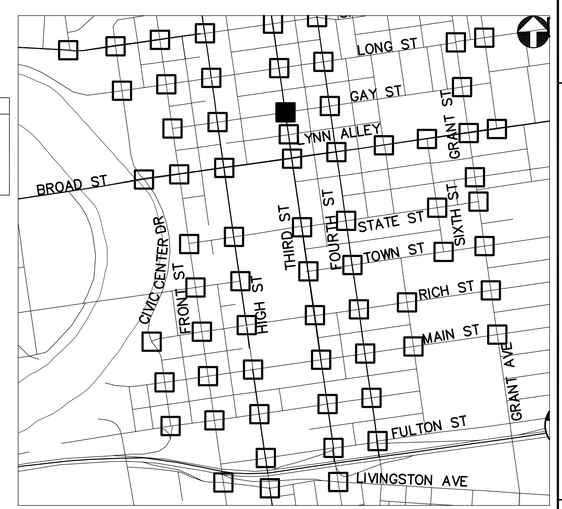
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

GAY ST AT THIRD ST - 0035

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GAY ST AT THIRD ST
INTERSECTION 0035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

107
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 107

INT #0098 WITH PROPOSED SIGNAL CONTROLLER

CCTV SEE SHEET109

PROPOSED WIRELESS SEE SHEET 109

NOTES:

1. SEE SHEET 112 FOR INTERSECTION QUANTITIES
2. SEE SHEET 853 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

LYNN ALLEY AT THIRD ST - 0098

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

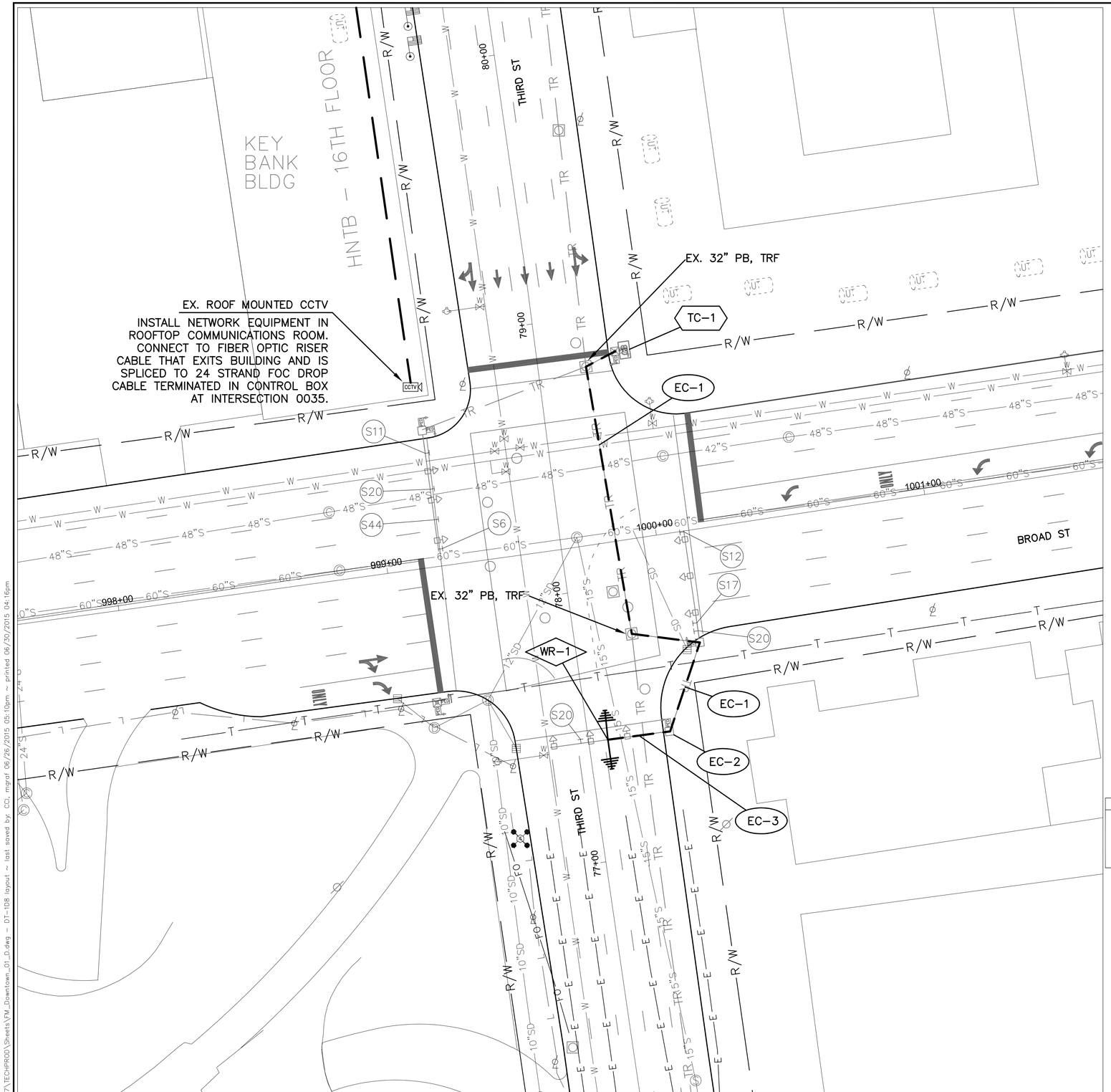
PID NUMBER 13034

LYNN ALLEY AT THIRD ST
INTERSECTION 0098

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

108
1107

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BROAD ST AT THIRD ST- 0041

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 108

INT #0041 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 133

NOTES:

1. SEE SHEET 112 FOR INTERSECTION QUANTITIES
2. SEE SHEET 798 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

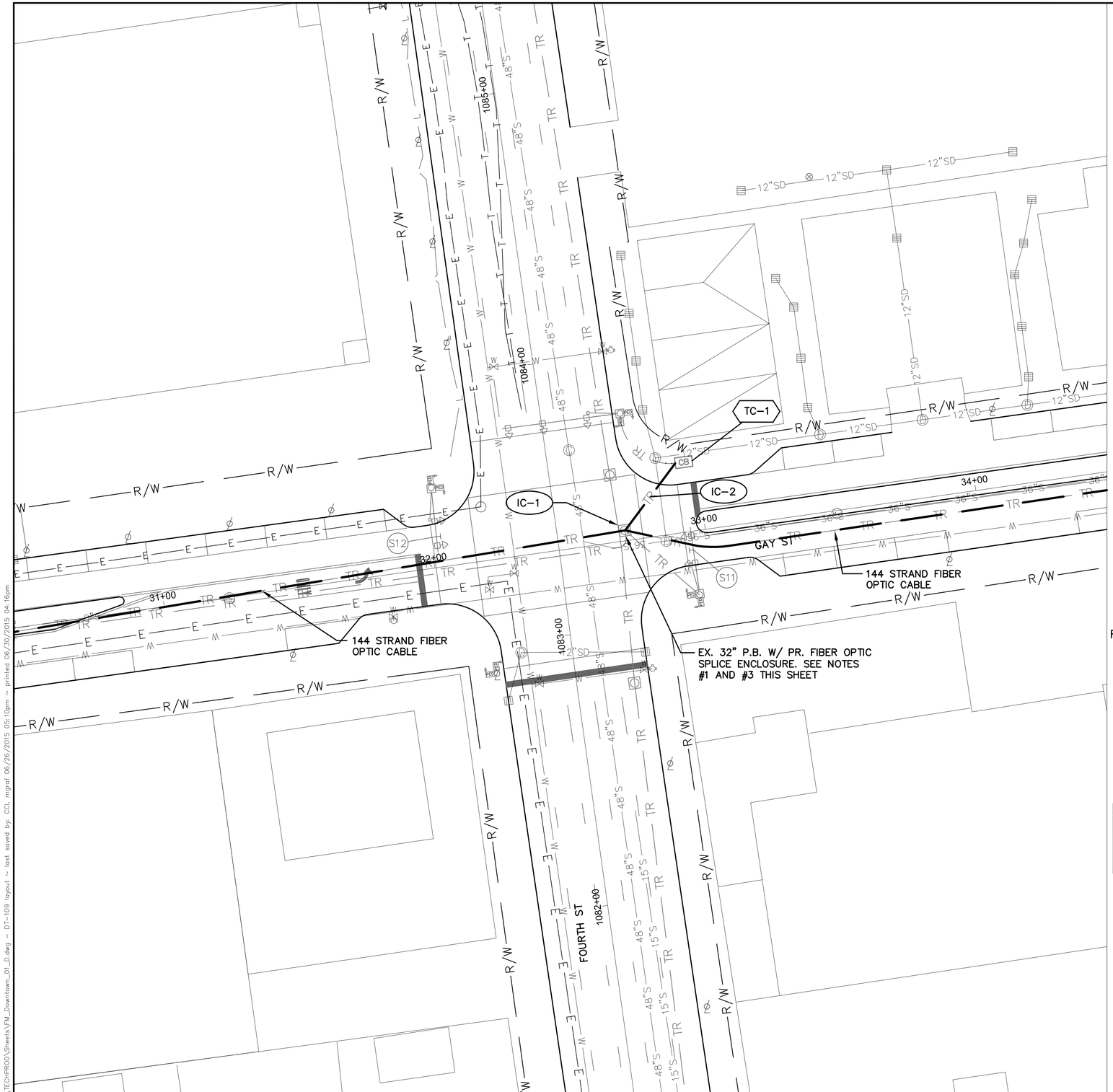
PID NUMBER 13034

BROAD ST AT THIRD ST INTERSECTION 0041

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

109
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 491 — INT #0036 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 492

NOTES:

1. SEE SHEETS 491 AND 492 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 112 FOR INTERSECTION QUANTITIES
3. SEE SHEET 794 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

FOURTH ST AT GAY ST - 0036

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT GAY ST
INTERSECTION 0036

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

110
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

IC-1

IC-2

TC-1

DOPW 102431

DOPW 102430

DOPW 102429

ALLEY

GAY ST

GRANT AVE

1007+00

1006+00

1005+00

1004+00

49+00

48+00

47+00

46+00

ICOVL

CB

R/W

TR

12"SD

12"S

21"S

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 492

PROPOSED FIBER CABLE SEE SHEET 492

INT #0038 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 492

NOTES:

1. SEE SHEET 492 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 112 FOR INTERSECTION QUANTITIES

3. SEE SHEET 795 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

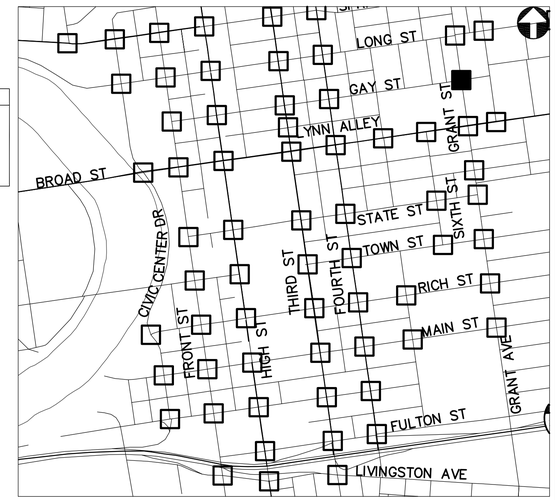
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

GAY ST AT GRANT AVE - 0038

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GAY ST AT GRANT AVE
INTERSECTION 0038

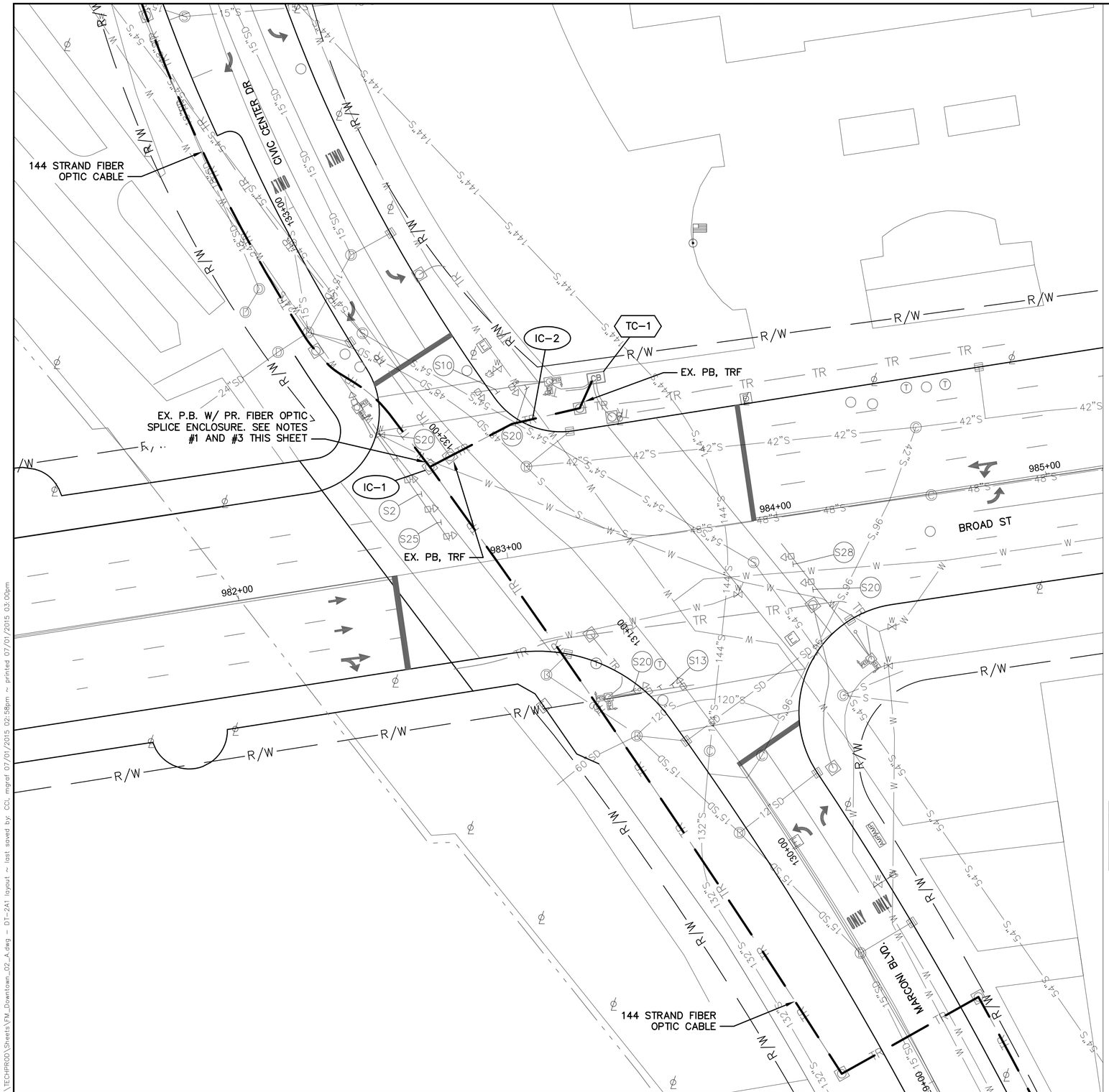
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

111
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		633	633	633	633	633	804	804	815													
				CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN													
		FROM	TO	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH													
INTERSECTION 0035: GAY ST. AT THIRD ST.																								
107	IC-1	83+31, 43' LT							75															
107	IC-2	83+31, 43' LT	83+59, 63' LT						45															
107	TC-1	83+59, 63' LT		2	1	1				1														
107	EC-1	83+59, 63' LT	82+89, 32' LT					187																
107	EC-2	82+89, 32' LT						70																
107	EC-3	82+89, 32' LT	82+88, 03' LT					58																
107	WR-1	82+88, 03' LT									2													
107	PULL BOX SLACK							20	10															
INTERSECTION 0098: LYNN ALLEY AT THIRD ST.																								
108	TC-1	80+60, 29' LT			1		1																	
108	EC-1	80+60, 29' LT						70																
108	EC-2	80+60, 29' LT	80+59, 07' RT					74																
108	WR-1	80+59, 07' RT									2													
INTERSECTION 0041: BROAD ST. AT THIRD ST.																								
109	TC-1	999+95, 69' LT			1	1																		
109	EC-1	999+95, 69' LT	999+94, 72' RT					364																
109	EC-2	999+94, 72' RT						70																
109	EC-3	999+94, 72' RT	999+71, 72' RT					46																
109	WR-1	999+71, 72' RT									2													
109	PULL BOX SLACK							20																
INTERSECTION 0036: FOURTH ST. AT GAY ST.																								
110	IC-1	32+71, 04' LT							75															
110	IC-2	32+71, 04' LT	32+93, 26' LT						41															
110	TC-1	32+93, 26' LT		2	1	1				1														
INTERSECTION 0038: GAY ST. AT GRANT AVE.																								
111	IC-1	46+97, 05' RT							75															
111	IC-2	46+97, 05' RT	46+83, 33' RT						48															
111	TC-1	46+83, 33' RT		2	1	1				1														
111	PULL BOX SLACK								20															



BROAD ST AT CIVIC CENTER DR AND MARCONI BLVD - 0039

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 495

INT #0039 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 495

NOTES:

1. SEE SHEET 495 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 118 FOR INTERSECTION QUANTITIES
3. SEE SHEET 796 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR .E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT CIVIC CENTER DR AND MARCONI BLVD INTERSECTION 0039

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

113
1107

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BROAD ST AT FRONT ST - 0040

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 104

INT #0040 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 486 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 118 FOR INTERSECTION QUANTITIES
3. SEE SHEET 797 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT FRONT ST
INTERSECTION 0040

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

114
1107

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144 STRAND FIBER OPTIC CABLE

TC-1

IC-2

IC-1

EX. PB, TRF

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

BROAD ST

HIGH ST

991+00

992+00

993+00

994+00

42+00

43+00

41+00

40+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 480

INT #0093 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 480

NOTES:

1. SEE SHEET 480 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 118 FOR INTERSECTION QUANTITIES
3. SEE SHEET 849 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

BROAD ST AT HIGH ST - 0093

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT HIGH ST
INTERSECTION 0093

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

115
1107

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EX. 36" P.B., CITYNET–"GATEWAY COLUMBUS" W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTE #2 THIS SHEET

SE U–1

IC–1

PR. 24" CAST–IN–PLACE PB, TRF, (DRAWN TO SCALE) INTERCEPTING EX. TRF CONDUIT, OFFSET CONDUIT ENTRY INTO PB, SEE NOTE #5 THIS SHEET

EC–1

DOPW(P) UG ST LIGHTING

EC–2

EC–3

WR–1

IC–2

TC–1

IC–3

EX. 32" PB, TRF

BROAD ST

FOURTH ST

ONLY

ONLY

1080+00

1079+00

1078+00

1077+00

1006+00

1005+00

1004+00

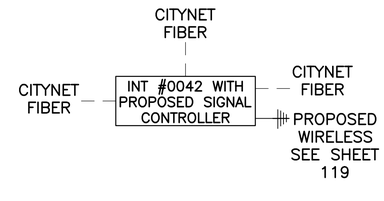
1003+00

S20

S12

S11

INTERSECTION COMMUNICATIONS



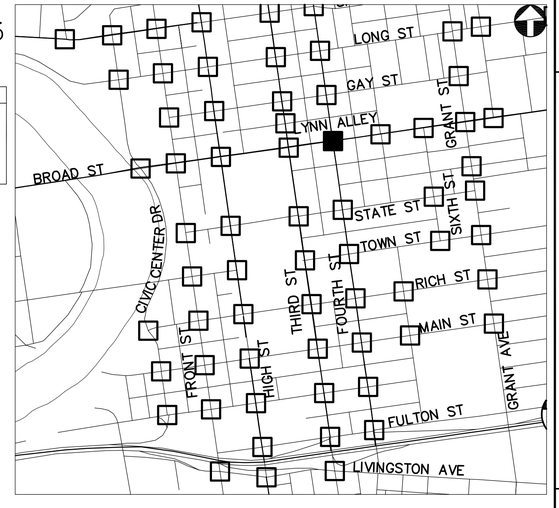
NOTES:

1. SEE SHEET 118 FOR INTERSECTION QUANTITIES
2. SEE SHEET 799 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS
5. SEE SHEET 47 FOR INTERCEPTING EX. CONDUIT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

BROAD ST AT FOURTH ST - 0042

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

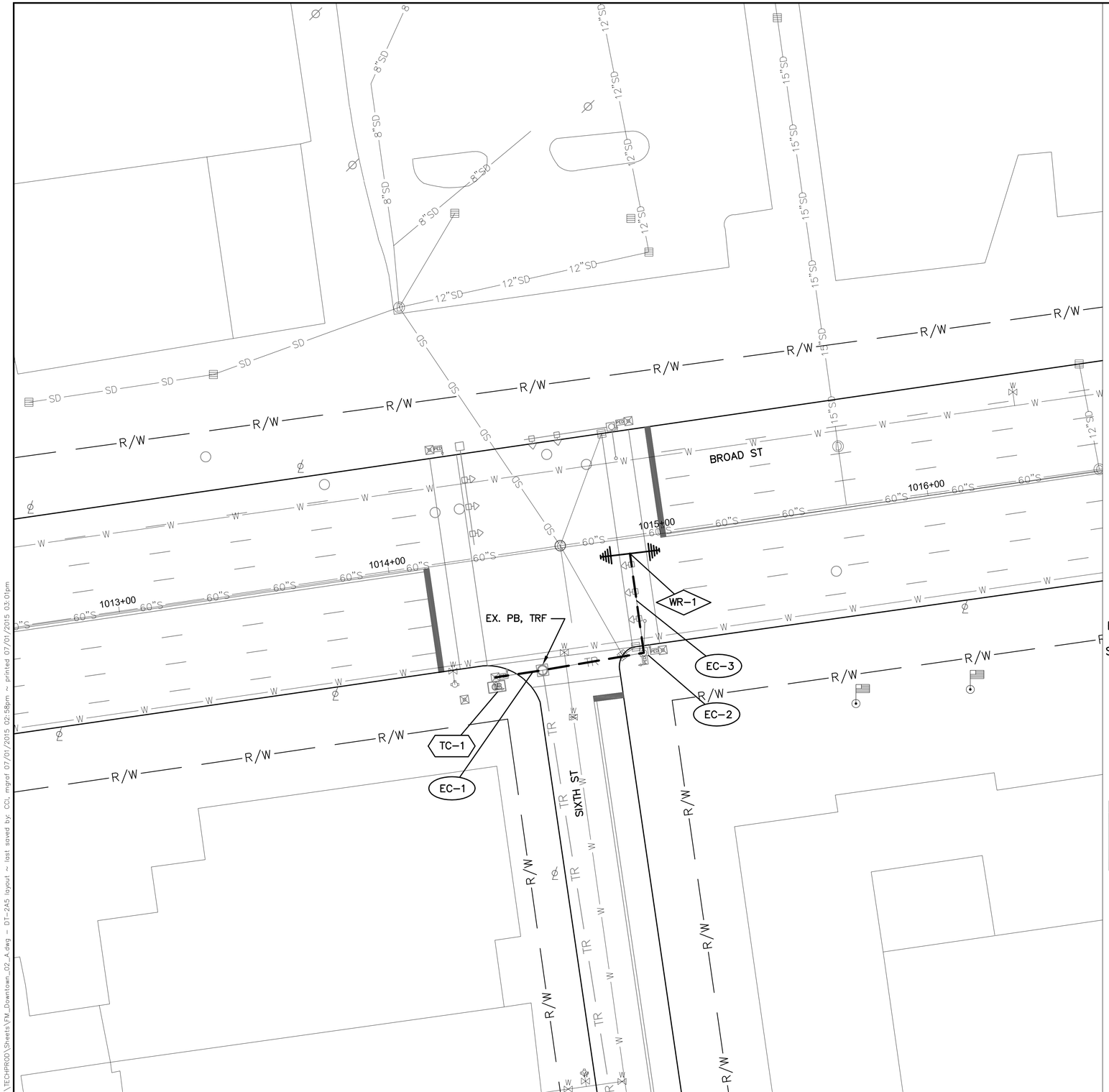
PID NUMBER 13034

BROAD ST AT FOURTH ST
INTERSECTION 0042

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

116
1107

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BROAD ST AT SIXTH ST - 0044

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 119 — INT # 0044 WITH EXISTING SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 121

NOTES:

1. SEE SHEET 118 FOR INTERSECTION QUANTITIES
2. SEE SHEET 801 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT SIXTH ST INTERSECTION 0044

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

117
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	625	633	633	633	633	633	633	804	804	804		815									
				CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	PULL BOX, MISC.: CONCRETE, 24"	TRENCH IN PAVED AREA, AS PER PLAN	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *	SPREAD SPECTRUM RADIO, AS PER PLAN									
		FROM	TO	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH									
INTERSECTION 0039: BROAD ST. AT CIVIC CENTER DR. & MARCONI BLVD.																										
113	IC-1	131+95, 14' LT											75													
113	IC-2	131+95, 14' LT	131+75, 52' RT										84													
113	TC-1	131+75, 52' RT					2	1	1					1												
113	PULL BOX SLACK												20													
INTERSECTION 0040: BROAD ST. AT FRONT ST.																										
114	IC-1	1033+23, 15' RT											75													
114	IC-2	1033+23, 15' RT	1033+34, 35' LT										80													
114	TC-1	1033+34, 35' LT					2		1		1			1												
114	PULL BOX SLACK												10													
INTERSECTION 0093: BROAD ST. AT N. HIGH ST.																										
115	IC-1	41+75, 34' LT											75													
115	IC-2	41+75, 34' LT	42+36, 75' LT										112													
115	TC-1	42+36, 75' LT					2		1		1			1												
115	PULL BOX SLACK												10													
INTERSECTION 0042: BROAD ST. AT FOURTH ST.																										
116	SE U-1	1078+98, 04' LT													1	27										
116	IC-1	1078+98, 04' LT											75													
116	IC-2	1078+98, 04' LT	1078+61, 04' LT	36	1	36							36													
116	IC-3	1078+61, 04' LT	1078+79, 29' RT										57													
116	TC-1	1078+79, 29' RT					3		1		1			1												
116	EC-1	1078+79, 29' RT	1078+68, 41' LT									94														
116	EC-2	1078+68, 41' LT										35														
116	EC-3	1078+68, 41' LT	1078+22, 41' LT									46														
116	WR-1	1078+22, 41' LT															1									
116	PULL BOX SLACK											10	20													
INTERSECTION 0044: BROAD ST. AT SIXTH ST.																										
117	TC-1	1014+33, 44' RT							1	1																
117	EC-1	1014+33, 44' RT	1014+89, 42' RT									134														
117	EC-2	1014+89, 42' RT										70														
117	EC-3	1014+89, 42' RT	1014+89, 06' RT									74														
117	WR-1	1014+89, 06' RT															2									
117	PULL BOX SLACK											10														



BROAD ST AT FIFTH ST - 0043

INTERSECTION COMMUNICATIONS

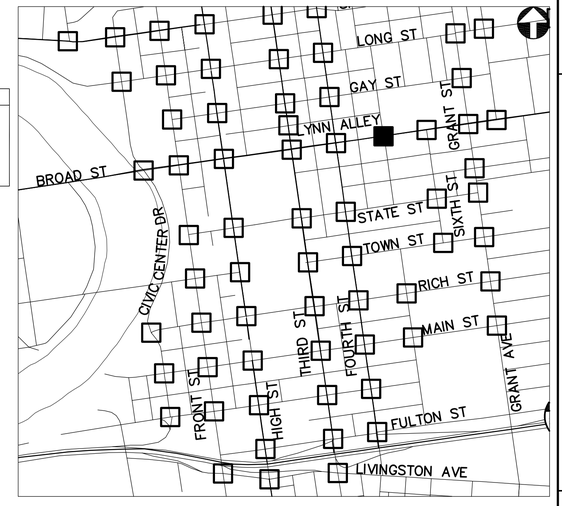
PROPOSED WIRELESS SEE SHEET 116 — INT #0043 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 117

NOTES:

1. SEE SHEET 124 FOR INTERSECTION QUANTITIES
2. SEE SHEET 800 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT FIFTH ST
INTERSECTION 0043

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

119
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 122

CITYNET FIBER

CITYNET FIBER

INT #0047 WITH PROPOSED SIGNAL CONTROLLER

CITYNET FIBER

PROPOSED WIRELESS SEE SHEET 123

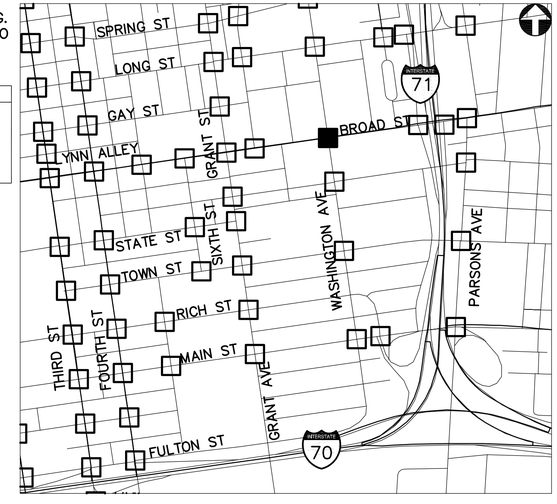
NOTES:

1. SEE SHEET 124 FOR INTERSECTION QUANTITIES
2. SEE SHEET 804 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS
5. SEE SHEET 47 FOR INTERCEPTING EXISTING CONDUIT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

BROAD ST AT WASHINGTON AVE - 0047

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT WASHINGTON AVE INTERSECTION 0047

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

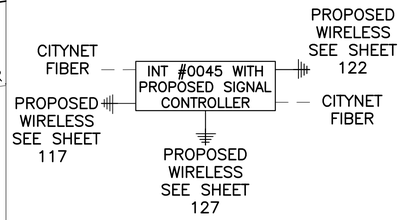
120
1107

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BROAD ST AT GRANT AVE - 0045

INTERSECTION COMMUNICATIONS



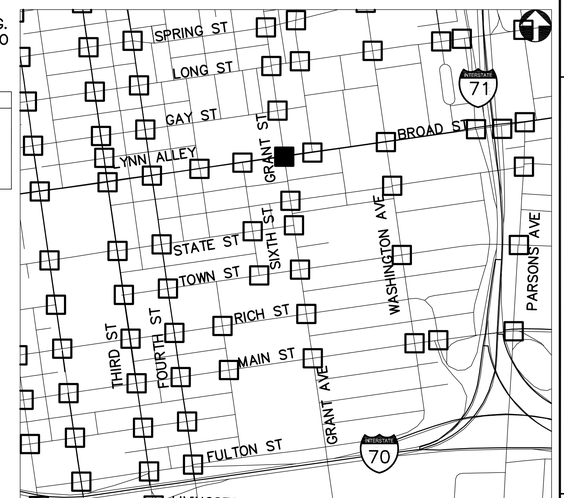
NOTES:

1. SEE SHEET 124 FOR INTERSECTION QUANTITIES
2. SEE SHEET 802 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

BROAD ST AT GRANT AVE
INTERSECTION 0045

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

121
1107

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BROAD ST AT CLEVELAND AVE - 0046

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 121 — INT #0046 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 120

NOTES:

1. SEE SHEET 124 FOR INTERSECTION QUANTITIES
2. SEE SHEET 803 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

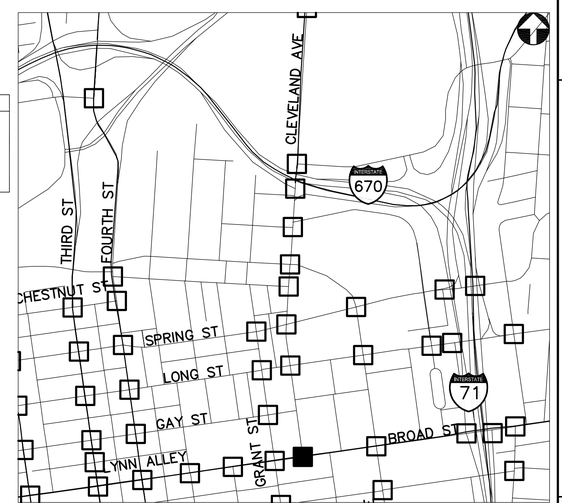
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT CLEVELAND AVE
INTERSECTION 0046

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

122
1107

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BROAD ST AT I-71 SB OFF RAMP - 0048

INTERSECTION COMMUNICATIONS

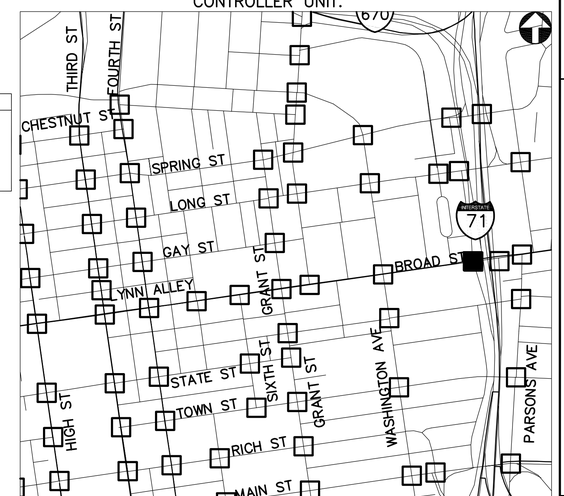
PROPOSED WIRELESS SEE SHEET 120 — INT #0048 WITH EXISTING SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 125

NOTES:

1. SEE SHEET 124 FOR INTERSECTION QUANTITIES
2. SEE SHEET 805 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT I-71 SB OFF RAMP
INTERSECTION 0048

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

123
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	625	632	633	633	633	633	633	804	804	804		815									
				CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	PULL BOX, MISC.; CONCRETE, 32"	TRENCH IN PAVED AREA, AS PER PLAN	SIGNALIZATION, MISC.; CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE; UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *	SPREAD SPECTRUM RADIO, AS PER PLAN									
		FROM	TO	FT	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH									
INTERSECTION 0043: BROAD ST. AT FIFTH ST.																										
119	TC-1	1009+58, 39' RT							1		1															
119	EC-1	1009+58, 39' RT	1010+26, 43' RT									164														
119	EC-2	1010+26, 43' RT										70														
119	EC-3	1010+26, 43' RT	1010+25, 06' RT									74														
119	WR-1	1010+25, 06' RT															2									
119	PULL BOX SLACK											10														
INTERSECTION 0047: BROAD ST. AT WASHINGTON AVE.																										
120	SE U-1	1029+97, 25' RT													1	27										
120	IC-1	1029+97, 25' RT											75													
120	IC-2	1029+97, 25' RT	1030+48, 25' RT	51	1	51							51													
120	IC-3	1030+48, 25' RT	1030+25, 44' LT										114													
120	TC-1	1030+25, 44' LT						3	1		1			1												
120	EC-1	1030+25, 44' LT										70														
120	EC-2	1030+25, 44' LT	1030+25, 15' LT									56														
120	WR-1	1030+25, 15' LT															2									
120	PULL BOX SLACK												20													
INTERSECTION 0045: BROAD ST. AT GRANT AVE.																										
121	SE U-1	998+09, 06' LT													1	18										
121	IC-1	998+09, 06' LT											75													
121	IC-2	998+09, 06' LT	999+64, 19' RT	179	1	179							179													
121	IC-3	999+64, 19' RT	999+46, 25' RT										31													
121	TC-1	999+46, 25' RT						2	1		1			1												
121	EC-1	999+46, 25' RT										70														
121	EC-2	999+46, 25' RT	999+98, 24' RT									104														
121	WR-1	999+98, 24' RT															2									
121	EC-3	999+46, 25' RT	999+56, 39' LT									88														
121	EC-4	999+56, 39' LT										35														
121	EC-5	999+56, 39' LT	999+56, 01' RT									39														
121	WR-2	999+56, 01' RT															1									
121	PULL BOX SLACK											10	20													
INTERSECTION 0046: BROAD ST. AT CLEVELAND AVE.																										
122	TC-1	1022+81, 45' RT							1		1															
122	EC-1	1022+81, 45' RT										70														
122	EC-2	1022+81, 45' RT	1022+81, 03' RT									82														
122	WR-1	1022+81, 03' RT															2									
INTERSECTION 0048: BROAD ST. AT I-71 SB OFF RAMP																										
123	TC-1	1040+07, 43' LT							1	1																
123	EC-1	1040+07, 43' LT										70														
123	CTV-1	1040+07, 43' LT					1																			
123	EC-2	1040+07, 43' LT	1040+07, 17' LT									54														
123	WR-1	1040+07, 17' LT															2									
		SHEET TOTAL		230	2	230	1	5	5	1	4	1066	565	2	2	45	11	-	-	-	-	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0043, 0047, 0045, 0046 AND 0048

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

124
1107

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BROAD ST AT I-71 NB OFF RAMP - 0049

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 123 — INT #0049 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 126

NOTES:

1. SEE SHEET 130 FOR INTERSECTION QUANTITIES
2. SEE SHEET 806 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

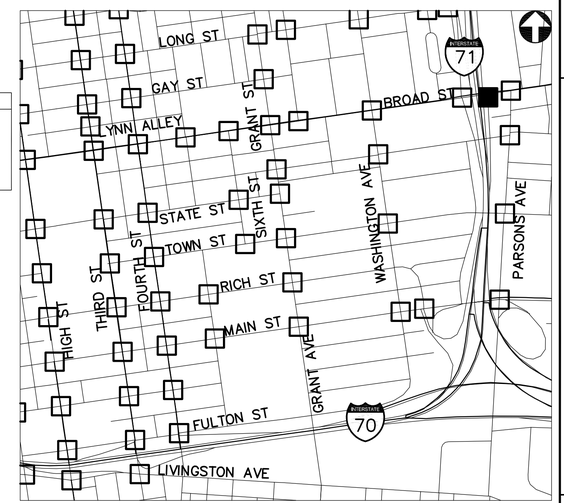
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BROAD ST AT I-71 NB OFF RAMP
INTERSECTION 0049

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

125
1107

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BROAD ST AT PARSONS AVE - 0050

INTERSECTION COMMUNICATIONS

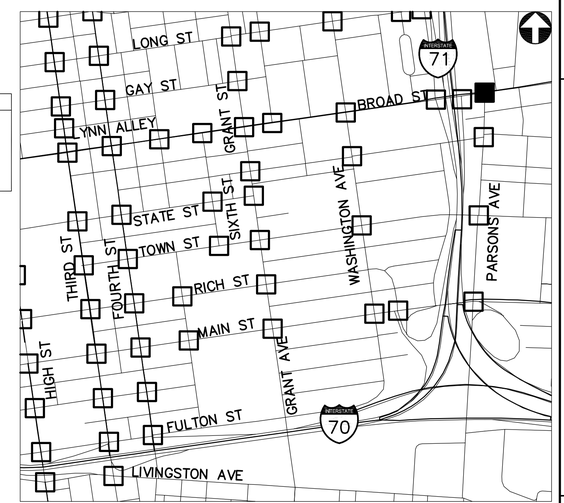
PROPOSED WIRELESS SEE SHEET 125 — INT #0050 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 131

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

NOTES:

1. SEE SHEET 510 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 130 FOR INTERSECTION QUANTITIES
3. SEE SHEET 807 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

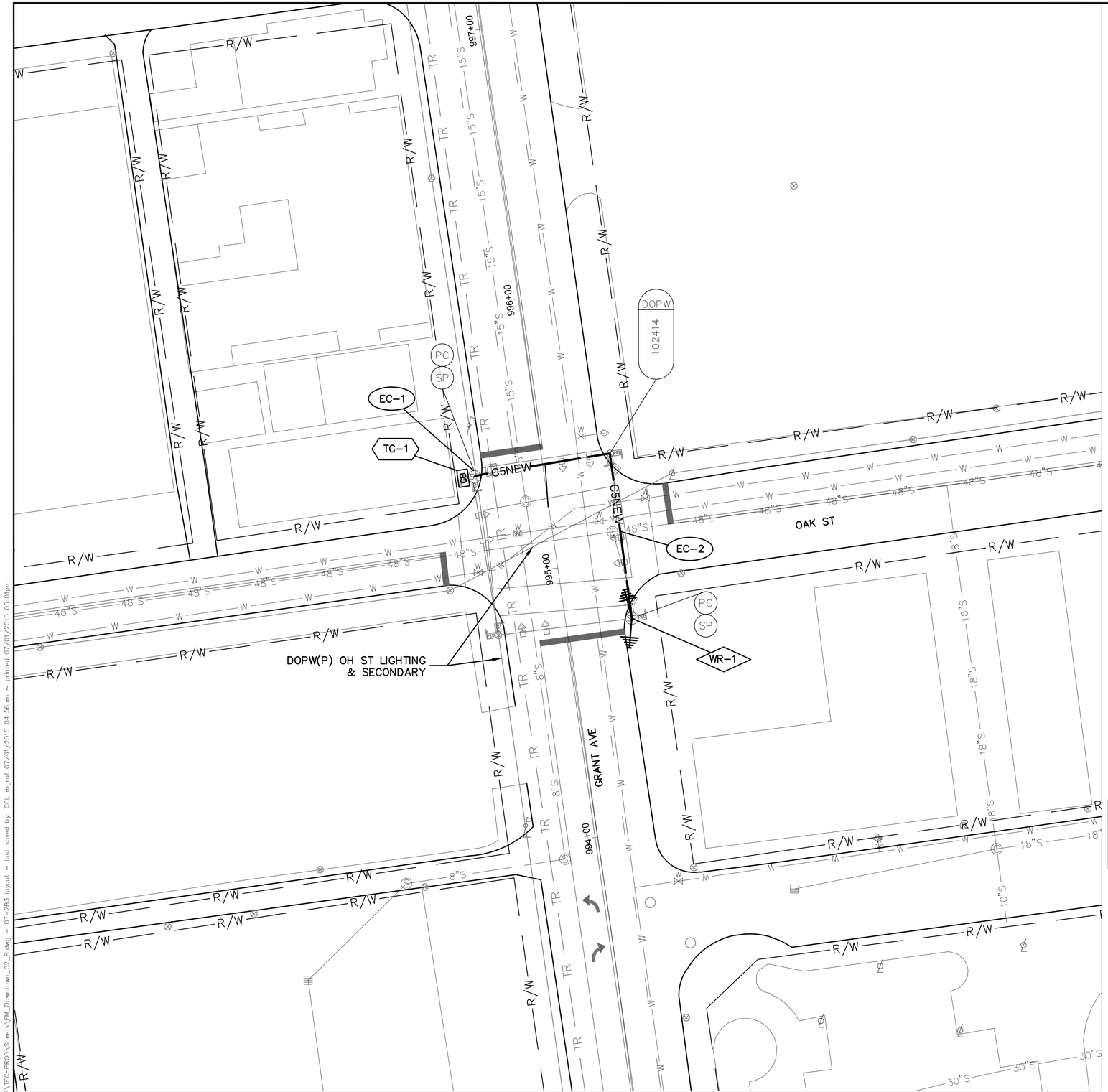
PID NUMBER 13034

BROAD ST AT PARSONS AVE
INTERSECTION 0050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

126
1107

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GRANT AVE AT OAK ST - 0051

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 121

INT #0051 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 128

NOTES:

1. SEE SHEET 130 FOR INTERSECTION QUANTITIES
2. SEE SHEET 808 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

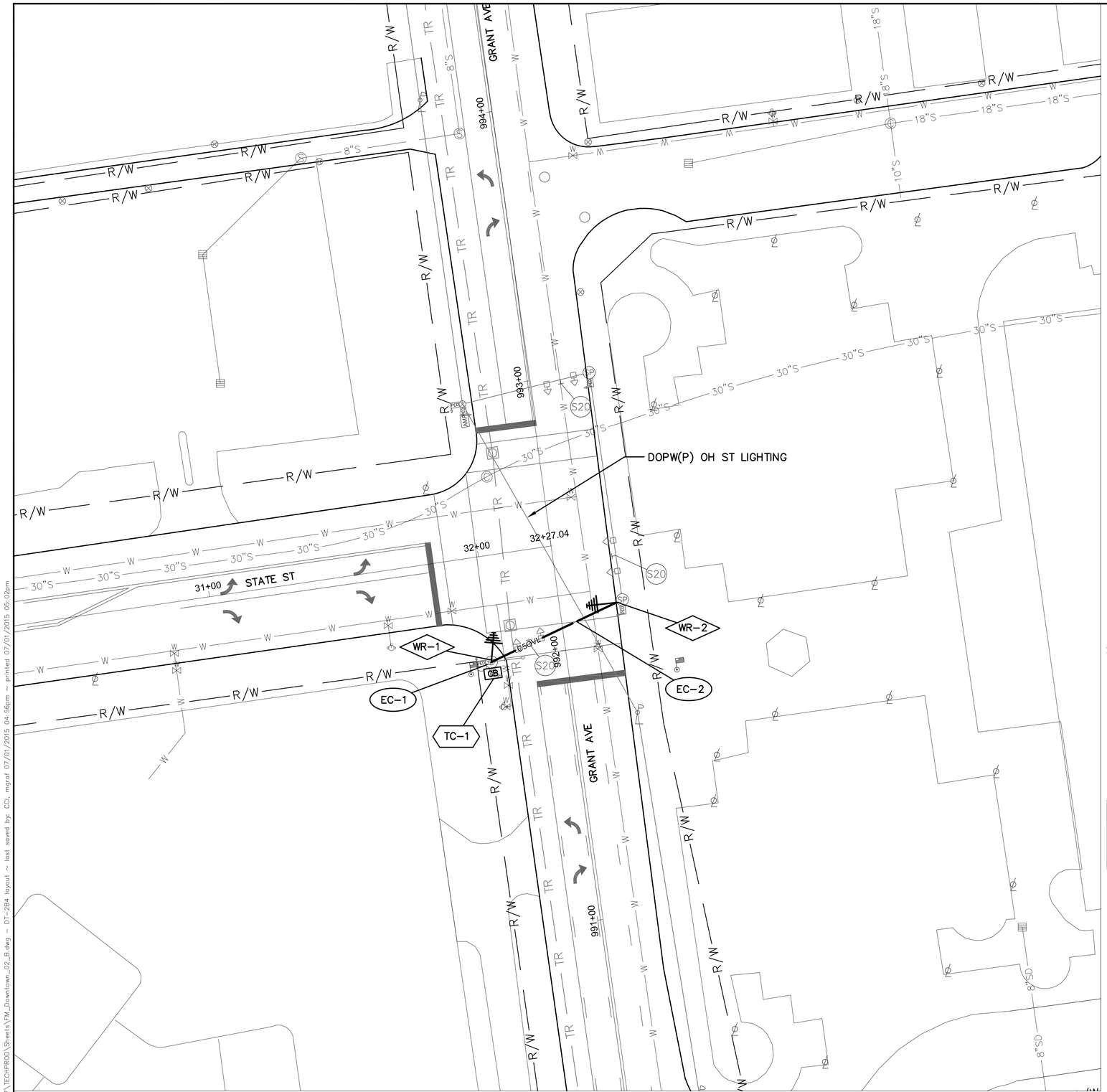
PID NUMBER 13034

GRANT AVE AT OAK ST
INTERSECTION 0051

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

127
1107

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GRANT AVE AT STATE ST - 0059

INTERSECTION COMMUNICATION

PROPOSED WIRELESS SEE SHEET 127

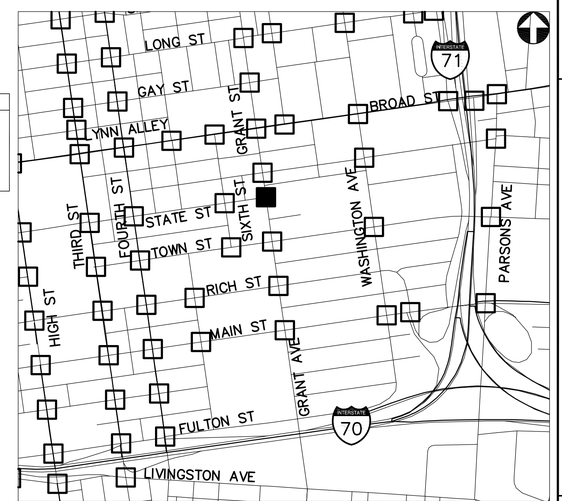
PROPOSED WIRELESS SEE SHEET 135 — INT #0059 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 130 FOR INTERSECTION QUANTITIES
2. SEE SHEET 816 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GRANT AVE AT STATE ST
INTERSECTION 0059

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

128
1107

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EX. 36" P.B., CITYNET–"GATEWAY COLUMBUS"
W/ PR. FIBER OPTIC SPLICE ENCLOSURE.
SEE NOTE #2 THIS SHEET

EX. 24" P.B., TRF

EX. 30" P.B., TRF

UNCOVER EX. 32" P.B., TRF

SE U-1

IC-1

IC-2

IC-3

EC-1

TC-1

WR-1

IC-3

UGFBR

DOPW(P) OH ST LIGHTING

OAK ST

WASHINGTON AVE

997+00

996+00

995+00

994+00

OAK ST AT WASHINGTON AVE - 0052

INTERSECTION COMMUNICATIONS

CITYNET FIBER

INT #0052 WITH EXISTING SIGNAL CONTROLLER

CITYNET FIBER

PROPOSED WIRELESS SEE SHEET 144

NOTES:

1. SEE SHEET 130 FOR INTERSECTION QUANTITIES
2. SEE SHEET 809 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS

UNDERGROUND UTILITIES

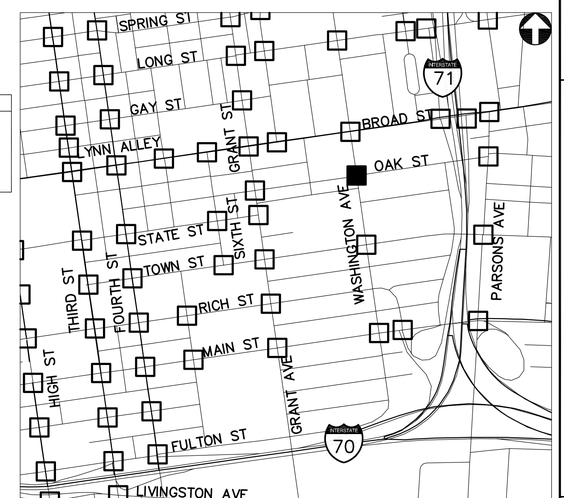
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

OAK ST AT WASHINTON AVE
INTERSECTION 0052

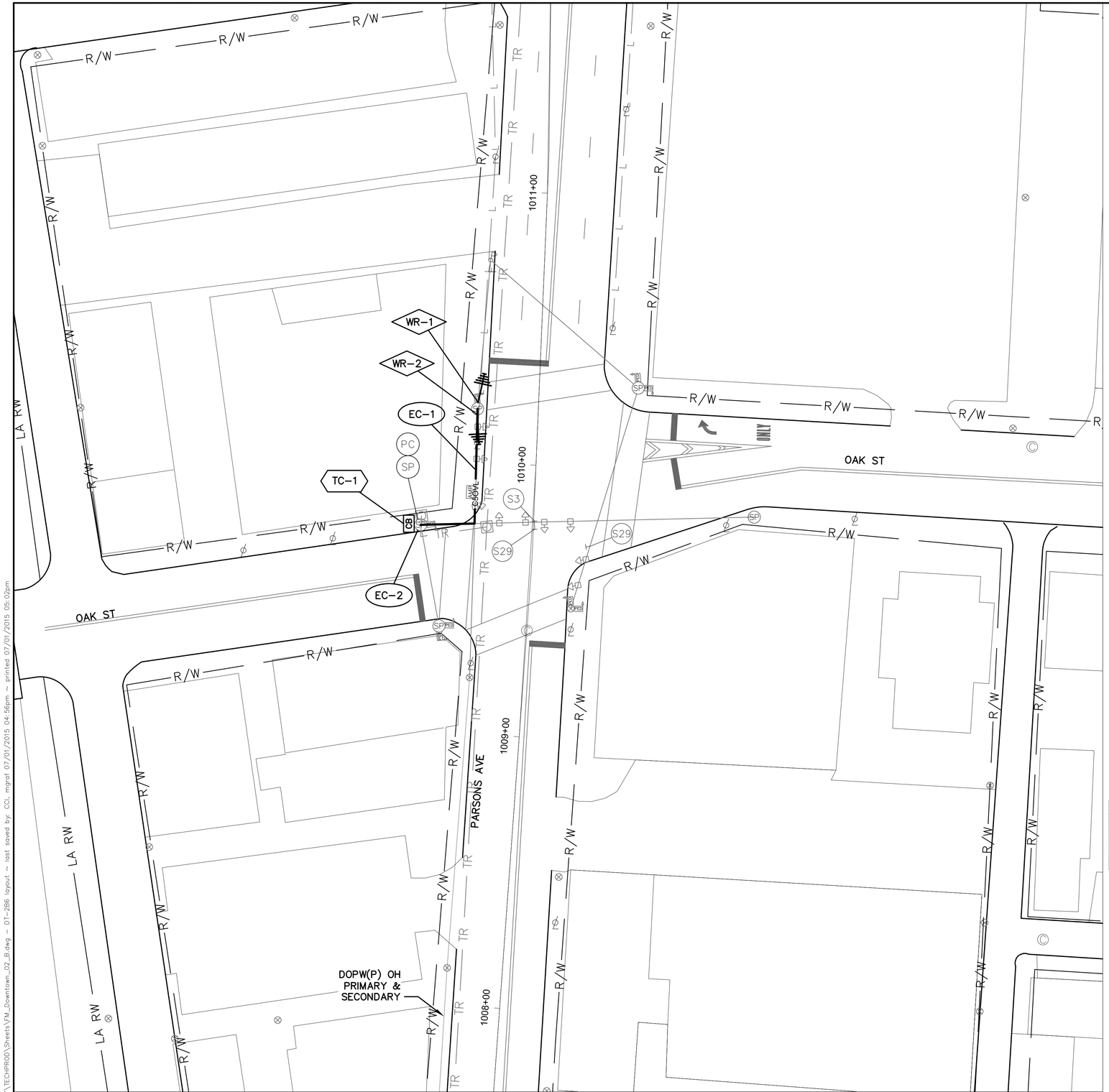
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

129
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		202	202	608	609	625	625	632	633	633	633	633	633	633	804	804	804	815					
				CURB REMOVED	WALK REMOVED	8" CONCRETE WALK, AS PER PLAN	CURB, STRAIGHT 18", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN	FUSION SPLICE, AS PER PLAN *					
		FROM	TO	FT	SF	SF	FT	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH					
INTERSECTION 0049: BROAD ST. AT I-71 NB OFF RAMP																									
125	TC-1	1043+78, 46' RT										1		1											
125	EC-1	1043+78, 46' RT													70										
125	EC-2	1043+78, 46' RT	1043+78, 04' RT												84										
125	WR-1	1043+78, 04' RT																		2					
INTERSECTION 0050: BROAD ST. AT PARSONS AVE.																									
126	IC-1	1045+91, 43' RT															75								
126	IC-2	1045+91, 43' RT	1046+48, 45' RT														69								
126	TC-1	1046+48, 45' RT									2	1		1				1							
126	EC-1	1046+48, 45' RT													35										
126	EC-2	1046+48, 45' RT	1046+48, 03' RT												42										
126	WR-1	1046+48, 03' RT																		1					
INTERSECTION 0051: GRANT AVE. AT OAK ST.																									
127	TC-1	995+38, 25' LT										1		1											
127	EC-1	995+38, 25' LT													70										
127	EC-2	995+38, 25' LT	994+78, 24' RT							112					224										
127	WR-1	994+78, 24' RT																		2					
INTERSECTION 0059: GRANT AVE. AT STATE ST.																									
128	TC-1	992+00, 28' LT										1		1											
128	EC-1	992+00, 28' LT													70										
128	WR-1	992+00, 28' LT																		1					
128	EC-2	992+00, 28' LT	992+16, 23' RT												53	53									
128	WR-2	992+16, 23' RT																		1					
INTERSECTION 0052: OAK ST. AT WASHINGTON AVE.																									
129	SE U-1	955+65, 19' LT																	1		18				
129	IC-1	955+65, 19' LT															75								
129	IC-2	955+65, 19' LT	955+42, 11' LT	10	250	250	10	27	27								27								
129	IC-3	955+42, 11' LT	994+89, 33' LT														106								
129	TC-1	994+89, 33' LT									2	1	1					1							
129	EC-1	994+89, 33' LT													35										
129	WR-1	994+89, 33' LT																		1					
129	PULL BOX SLACK																20								



OAK ST AT PARSONS AVE - 0053

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 126

INT #0053 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 145

NOTES:

1. SEE SHEET 510 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 136 FOR INTERSECTION QUANTITIES
3. SEE SHEET 810 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

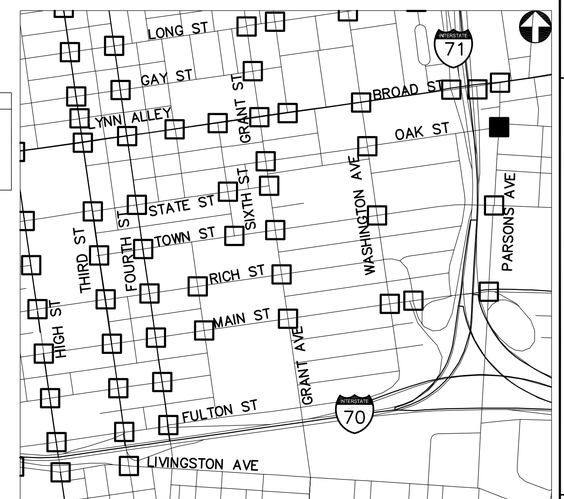
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

OAK ST AT PARSONS AVE
INTERSECTION 0053

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

131
1107

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144 STRAND FIBER OPTIC CABLE

EX. 36" P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

STATE ST

HIGH ST

IC-1

IC-2

TC-1

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 479

INT #0055 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 479

PROPOSED FIBER CABLE SEE SHEET 479

NOTES:

1. SEE SHEET 479 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 136 FOR INTERSECTION QUANTITIES
3. SEE SHEET 812 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

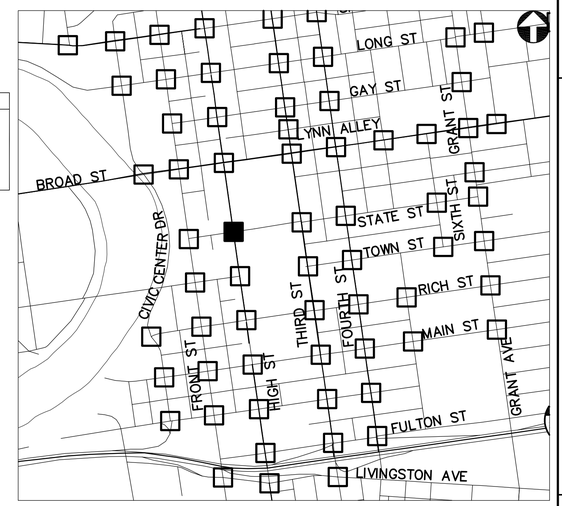
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

HIGH ST AT STATE ST - 0055

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT STATE ST
INTERSECTION 0055

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

132
1107

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EX. P.B. W/ FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

DOPW(P) UG PRIMARY

EX. 36" P.B., CITYNET–"GATEWAY COLUMBUS" W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTE #3 THIS SHEET

SE U-1

STATE ST

WR-1

WR-3

IC-1

IC-2

NOTE: EXISTING CONDUIT INTERRUPTED 2" BELOW PAVEMENT

EC-2

EC-3

EC-3 IC-14

EC-1

TC-1

PR. PB, TRF, 32"

PR. 32" P.B

NEW 2" RISER

IC-3

EC-4

EC-5

WR-2

DOPW(P) UG ST LIGHTING

DOPW(P) UG PRIMARY

144 STRAND FIBER OPTIC CABLE IN EX CONDUIT

THIRD ST

72+00

71+00

70+00

69+00

14+00

13+00

12+00

11+00

R/W

SD

S11 S12 S18 S20

STATE ST AT THIRD ST- 0056

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 109

PROPOSED FIBER CABLE SEE SHEET 479

INT #0056 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 134

CITYNET FIBER

PROPOSED WIRELESS SEE SHEET 140

NOTES:

1. SEE SHEET 479 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 136 FOR INTERSECTION QUANTITIES
3. SEE SHEET 813 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC
5. SEE SHEET 44 FOR PAVEMENT DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

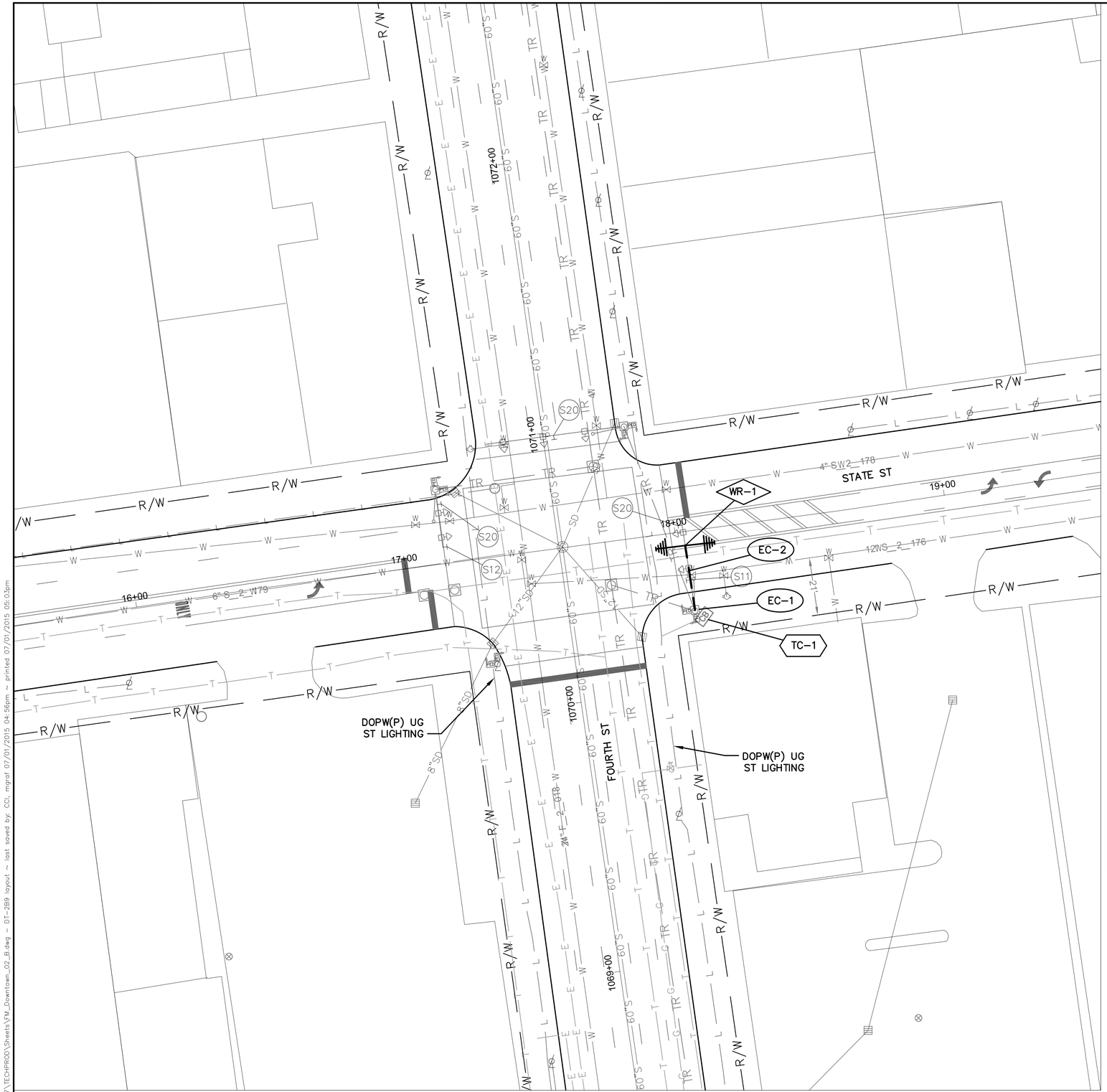
PID NUMBER 13034

STATE ST AT THIRD ST
INTERSECTION 0056

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

133
1107

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FOURTH ST AT STATE ST - 0057

INTERSECTION COMMUNICATIONS

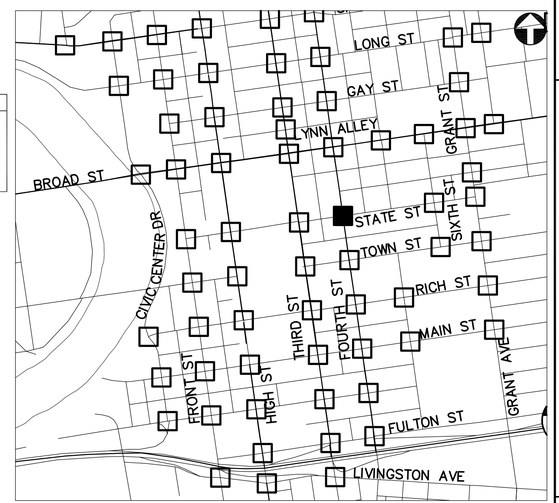
PROPOSED WIRELESS SEE SHEET 133 — INT #0057 WITH EXISTING SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 135

NOTES:

1. SEE SHEET 136 FOR INTERSECTION QUANTITIES
2. SEE SHEET 814 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT STATE ST
INTERSECTION 0057

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

134
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 134 — INT #0058 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 128

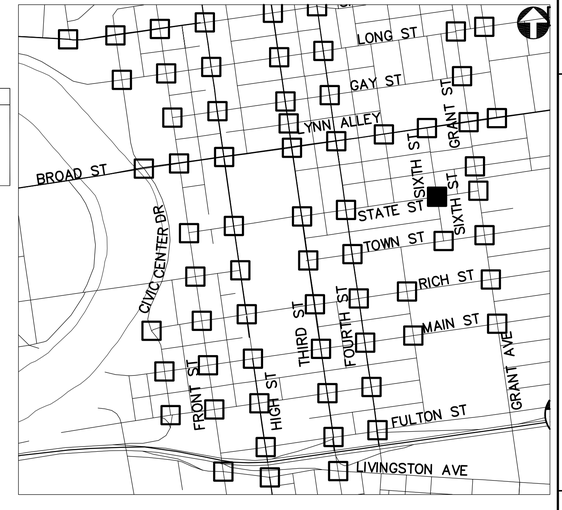
PROPOSED WIRELESS SEE SHEET 91

NOTES:

1. SEE SHEET 136 FOR INTERSECTION QUANTITIES
2. SEE SHEET 815 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

SIXTH ST AT STATE ST - 0058

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

SIXTH ST AT STATE ST
INTERSECTION 0058

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

135
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	625	632	633	633	633	633	633	804	804	804	804	804	815								
				CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	PULL BOX, MISC.: CONCRETE, 32"	TRENCH IN PAVED AREA, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	SPREAD SPECTRUM RADIO, AS PER PLAN	FUSION SPLICE, AS PER PLAN.*							
		FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH	EACH							
INTERSECTION 0053: OAK ST. AT PARSONS AVE.																									
131	IC-1	1009+76, 41' LT											110												
131	IC-2	1009+76, 41' LT	1009+76, 45' LT										19												
131	TC-1	1009+76, 45' LT						2	1		1				1										
131	PULL BOX SLACK												10												
INTERSECTION 0055: HIGH ST. AT STATE ST.																									
132	IC-1	34+00, 33' LT												75											
132	IC-2	34+00, 33' LT	33+95, 58' LT											35											
132	TC-1	33+95, 58' LT						3	1	1						1									
INTERSECTION 0056: STATE ST. AT THIRD ST.																									
133	SE U-1	13+49, 01' RT															1		18						
133	IC-1	13+49, 01' RT											75												
133	IC-2	13+49, 01' RT	12+83, 20' RT	84	1	84							84												
133	IC-3	12+83, 20' RT											75												
133	IC-4	12+83, 20' RT	13+10, 26' RT										76												
133	TC-1	13+10, 26' RT						2	1		1				2										
133	EC-1	13+10, 26' RT										35													
133	EC-2	13+10, 26' RT	13+10, 02' RT									23													
133	WR-1	13+10, 02' RT																1							
133	EC-3	13+10, 26' RT	12+25, 53' RT									160													
133	EC-4	12+25, 53' RT										70													
133	EC-5	12+25, 53' RT	12+76, 41' RT									78													
133	WR-2	12+76, 41' RT																2							
133	PULL BOX SLACK											20	20												
INTERSECTION 0057: FOURTH ST. AT STATE ST.																									
134	TC-1	18+03, 29' RT							1	1															
134	EC-1	18+03, 29' RT										70													
134	EC-2	18+03, 29' RT	18+03, 05' RT									48													
134	WR-1	18+03, 05' RT																2							
INTERSECTION 0058: SIXTH ST. AT STATE ST.																									
135	TC-1	27+42, 27' RT							1		1														
135	EC-1	27+42, 27' RT										105													
135	WR-1	27+42, 27' RT																1							
135	EC-2	27+42, 27' RT	27+91, 27' RT				50					100													
135	WR-2	27+91, 27' RT																2							
		SHEET TOTAL		84	1	84	50	7	5	2	3	709	469	110	3	1	1	8	18	-	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0053, 0055, 0056, 0057 AND 0058

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

136
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

144 STRAND FIBER OPTIC CABLE

STATE ST

FRONT ST

1026+00

1025+00

1024+00

1023+00

0+00

1+00

2+00

S28

FRONT ST AT STATE ST - 0054

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 486

INT #0054 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 486

NOTES:

1. SEE SHEET 486 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 142 FOR INTERSECTION QUANTITIES
3. SEE SHEET 811 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

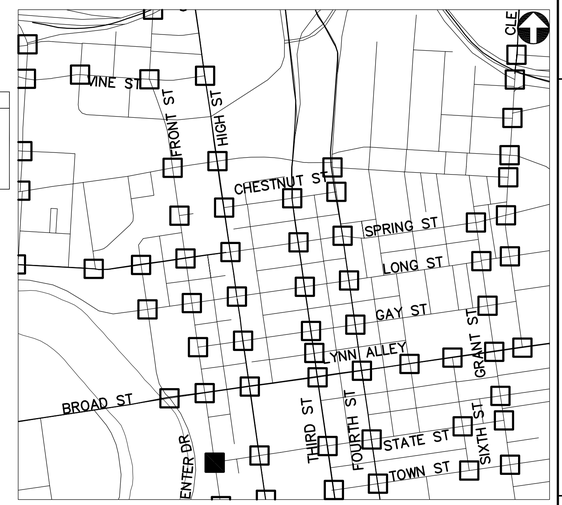
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT STATE ST
INTERSECTION 0054

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

137
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

EX. PB, TRF

CB

TOWN ST

FRONT ST

144 STRAND FIBER OPTIC CABLE

1021+00

1020+00

1019+00

1018+00

111+00

110+00

109+00

108+00

FRONT ST AT TOWN ST - 0061

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 485

INT #0061 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 485

NOTES:

1. SEE SHEET 485 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 142 FOR INTERSECTION QUANTITIES
3. SEE SHEET 817 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT TOWN ST
INTERSECTION 0061

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

138
1107

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HIGH ST AT TOWN ST - 0062

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 479

INT #0062 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 478

NOTES:

1. SEE SHEETS 478 AND 479 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 142 FOR INTERSECTION QUANTITIES
3. SEE SHEET 818 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT TOWN ST
INTERSECTION 0062

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

139
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 133

INT #0063 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 152

NOTES:

1. SEE SHEET 142 FOR INTERSECTION QUANTITIES
2. SEE SHEET 819 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

THIRD ST AT TOWN ST - 0063

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

THIRD ST AT TOWN ST
INTERSECTION 0063

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

140
1107

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494 FT – 24 STRAND FOC IN EXISTING CONDUIT

FOC SPLICE ENCLOSURE IN BUILDING. TRANSITION 24 STRAND FOC TO RISER RATED FOC (MATCH BUFFER/FIBER COLORS)

REPLACE EX 1/2" COAXIAL CABLE WITH 24 STRAND RISER RATED FOC

DOPW(P) UG PRIMARY

DOPW(P) UG ST LIGHTING

EX. 36" P.B. CITYNET–"GATEWAY COLUMBUS" W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTE #2 THIS SHEET.

PR. PB, TRF INTERCEPTING EX. TRF CONDUIT. SEE NOTE #5 THIS SHEET. WITH FOC SPLICE ENCLOSURE SPLICE 24 STRAND FOC TO FOC DROP CABLE (MATCH BUFFER/COLOR FIBERS)

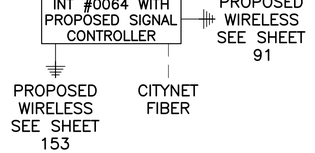
24 FIBER TERMINATION PANEL WITH FOC DROP

IC-1 IC-2 IC-3 IC-3 TC-1 EC-1 EC-4 EC-5 EC-6 CTV-1 SE U-1 WR-1 WR-2

1068+00 1067+00 1066+00 1065+00 129+00 128+00 127+00 126+00

TOWN ST FOURTH ST

INTERSECTION COMMUNICATIONS



NOTES:

1. SEE SHEET 142 FOR INTERSECTION QUANTITIES
2. SEE SHEET 820 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS
5. SEE SHEET 47 FOR INTERCEPTING EX. CONDUIT DETAILS
6. EXISTING CCTV MOUNTED ON BUILDING ROOF. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROPERTY OWNER PRIOR TO START OF WORK

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

FOURTH ST AT TOWN ST - 0064

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT TOWN ST
INTERSECTION 0064

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

141
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	625	632	633	633	633	633	633	633	633	633	804	804	804		815					
				CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	PULL BOX, MISC.: CONCRETE, 32"	TRENCH IN PAVED AREA, AS PER PLAN	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *	SPREAD SPECTRUM RADIO, AS PER PLAN					
		FROM	TO	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH					
INTERSECTION 0054: FRONT ST. AT STATE ST.																									
137	IC-1	1025+42, 18' RT														75									
137	IC-2	1025+42, 18' RT	1025+39, 27' RT													20									
137	TC-1	1025+39, 27' RT							2		1			1			1								
INTERSECTION 0061: FRONT ST. AT TOWN ST.																									
138	IC-1	1020+20, 18' RT														75									
138	IC-2	1020+20, 18' RT	1020+25, 54' LT													87									
138	TC-1	1020+25, 54' LT							2	1	1						1								
138	PULL BOX SLACK															10									
INTERSECTION 0062: S. HIGH ST. AT TOWN ST.																									
139	IC-1	29+14, 32' LT														75									
139	IC-2	29+14, 32' LT	29+09, 69' LT													51									
139	TC-1	29+09, 69' LT							2	1	1						1								
139	PULL BOX SLACK															10									
INTERSECTION 0063: THIRD ST.AT TOWN ST.																									
140	TC-1	65+28, 44' RT									1			1											
140	EC-1	65+28, 44' RT	65+20, 33' LT												182										
140	EC-2	65+20, 33' LT													70										
140	EC-3	65+20, 33' LT	65+19, 05' RT												76										
140	WR-1	65+19, 05' RT																		2					
140	PULL BOX SLACK														10										
INTERSECTION 0064: FOURTH ST. AT TOWN ST.																									
141	SE U-1	1066+58, 00																1	12						
141	IC-1	1066+58, 00														75									
141	IC-2	1066+58, 00	1066+58, 20' RT	20	1	20										20									
141	IC-3	1066+58, 20' RT	1066+16, 30' RT													57									
141	TC-1	1066+16, 30' RT							2		1		1	1			1								
141	EC-1	1066+16, 30' RT													35										
141	EC-2	1066+16, 30' RT	1066+16, 09' RT												21										
141	WR-1	1066+16, 09' RT																		1					
141	EC-3	1066+16, 30' RT	1066+25, 20' RT				24																		
141	EC-4	1066+16, 30' RT	1066+01, 47' LT												180										
141	EC-5	1066+01, 47' LT													70										
141	EC-6	1066+01, 47' LT	1065+73, 47' LT												58										
141	WR-2	1065+73, 47' LT																		1					
141	CTV-1	1066+50, 71' LT						1			1	1	1												
141	PULL BOX SLACK														5	10									
		SHEET TOTAL		20	1	20	24	1	8	2	6	1	2	3	707	565	4	1	12	4	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0054, 0061, 0062, 0063 AND 0064

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

142
1107

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GRANT AVE AT TOWN ST - 0065

INTERSECTION COMMUNICATIONS

INT #0065 WITH PROPOSED SIGNAL CONTROLLER → PROPOSED WIRELESS SEE SHEET 144

PROPOSED WIRELESS SEE SHEET 155

NOTES:

1. SEE SHEET 148 FOR INTERSECTION QUANTITIES
2. SEE SHEET 821 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

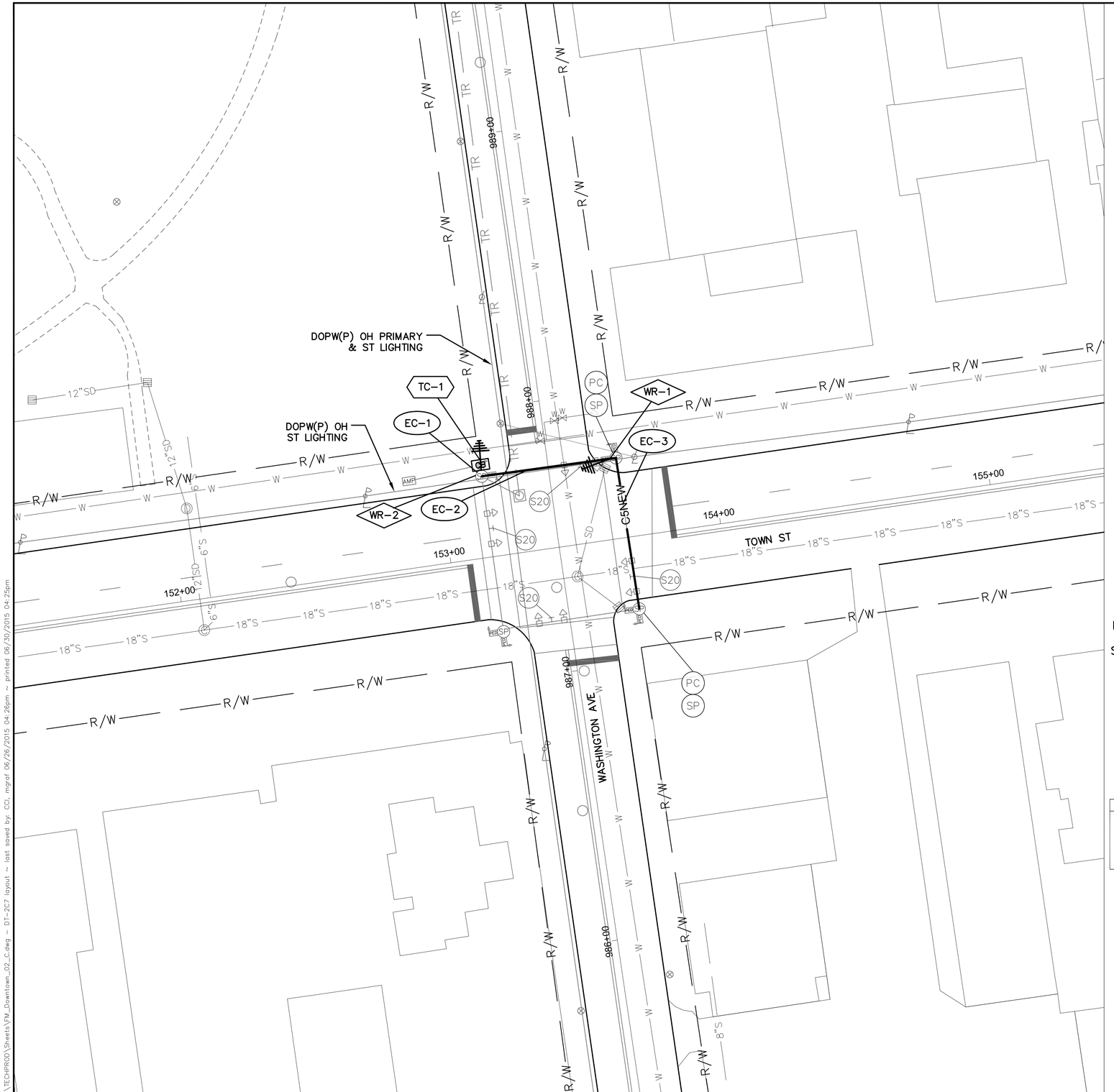
PID NUMBER 13034

GRANT AVE AT TOWN ST
INTERSECTION 0065

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

143
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 129

PROPOSED WIRELESS SEE SHEET 143 — INT #0066 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 148 FOR INTERSECTION QUANTITIES
2. SEE SHEET 822 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

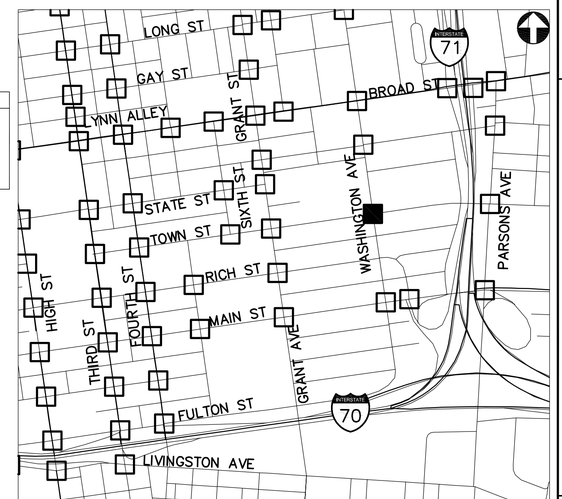
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

TOWN ST AT WASHINGTON AVE- 0066

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

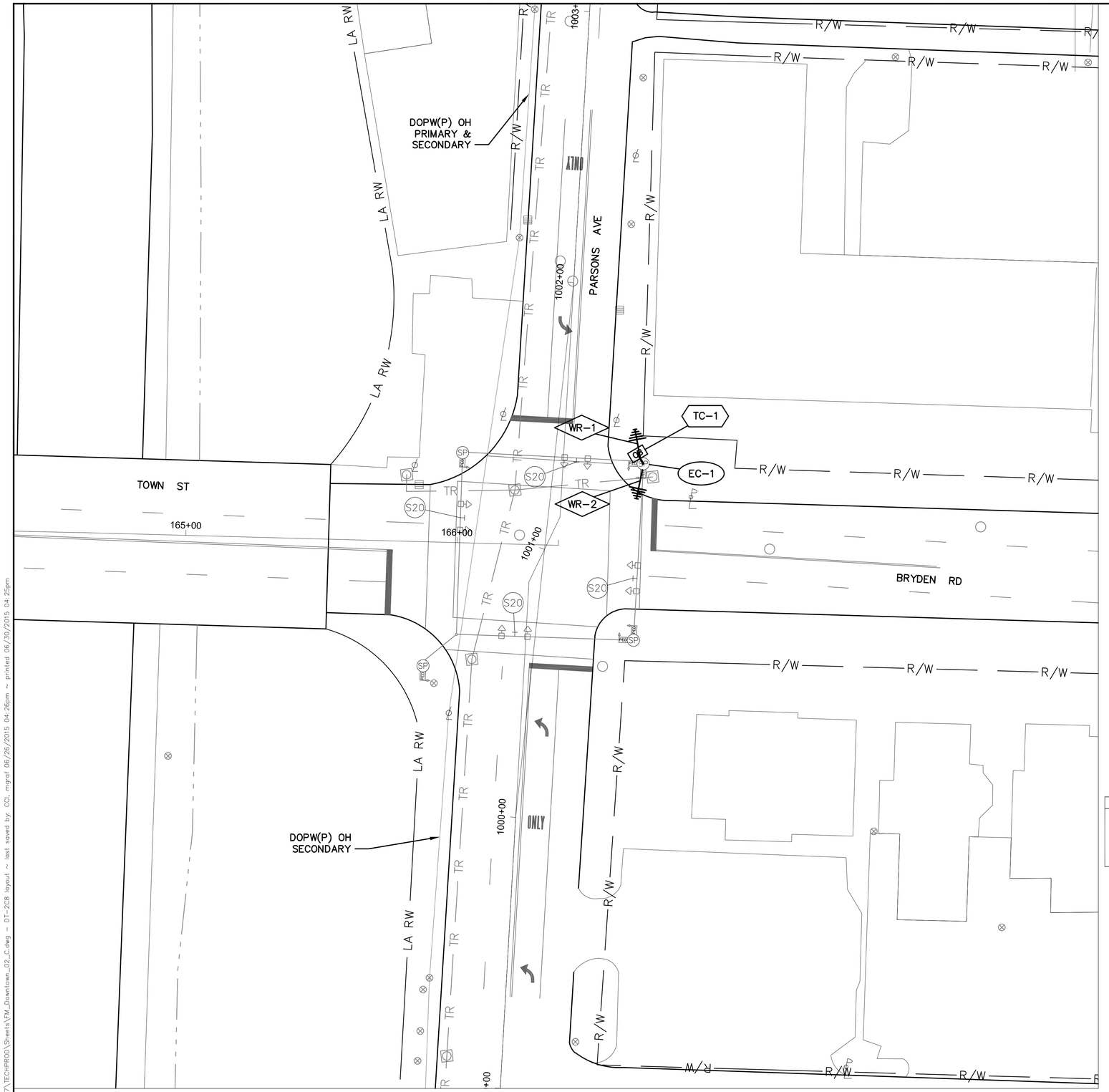
PID NUMBER 13034

TOWN ST AT WASHINGTON AVE
INTERSECTION 0066

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

144
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 131

INT #0067 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 147

NOTES:

1. SEE SHEET 510 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 148 FOR INTERSECTION QUANTITIES
3. SEE SHEET 823 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

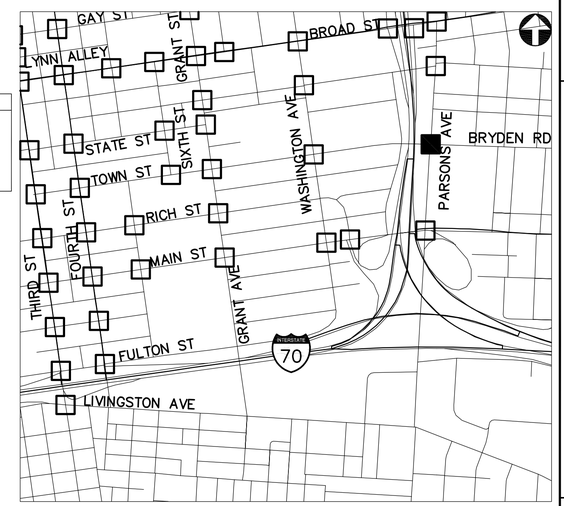
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BRYDEN RD AND TOWN ST AT PARSONS AVE - 0067

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

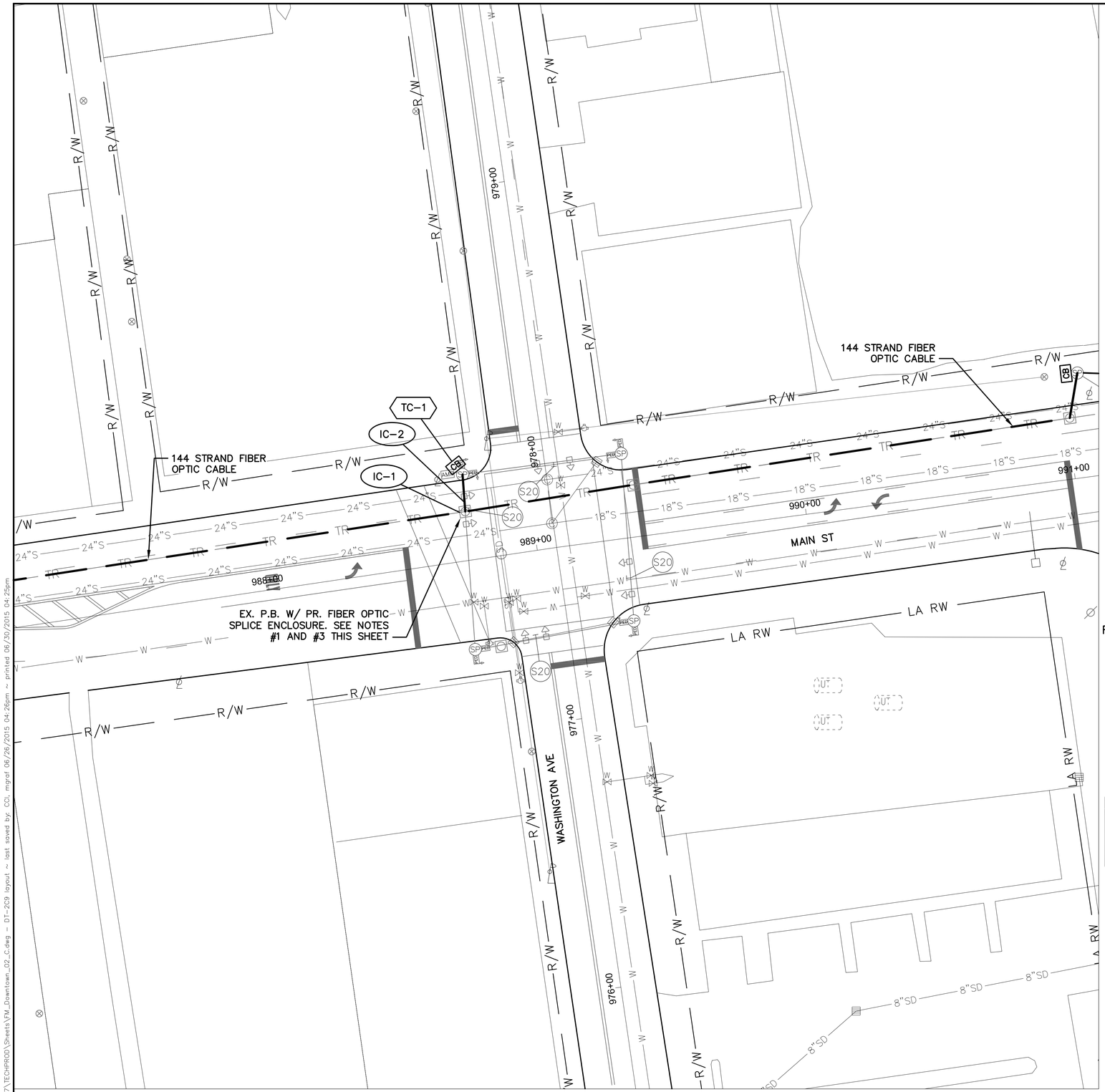
PID NUMBER 13034

BRYDEN RD AND TOWN ST AT PARSONS AVE INTERSECTION 0067

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

145
1107

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INTERSECTION COMMUNICTAIONS

PROPOSED FIBER CABLE SEE SHEET 509 — INT #0080 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 509

NOTES:

1. SEE SHEET 509 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 148 FOR INTERSECTION QUANTITIES
3. SEE SHEET 836 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

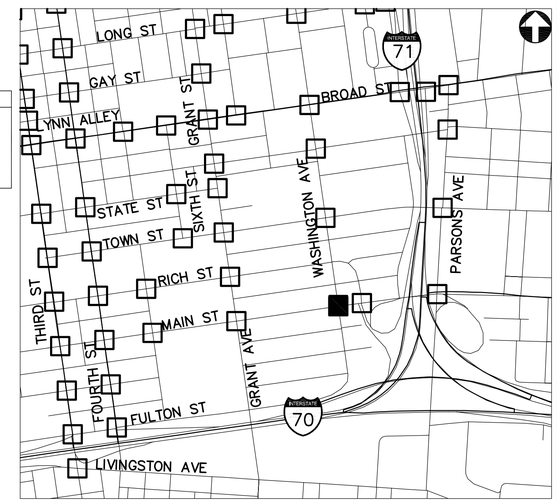
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

MAIN ST AT WASHINGTON AVE - 0080

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

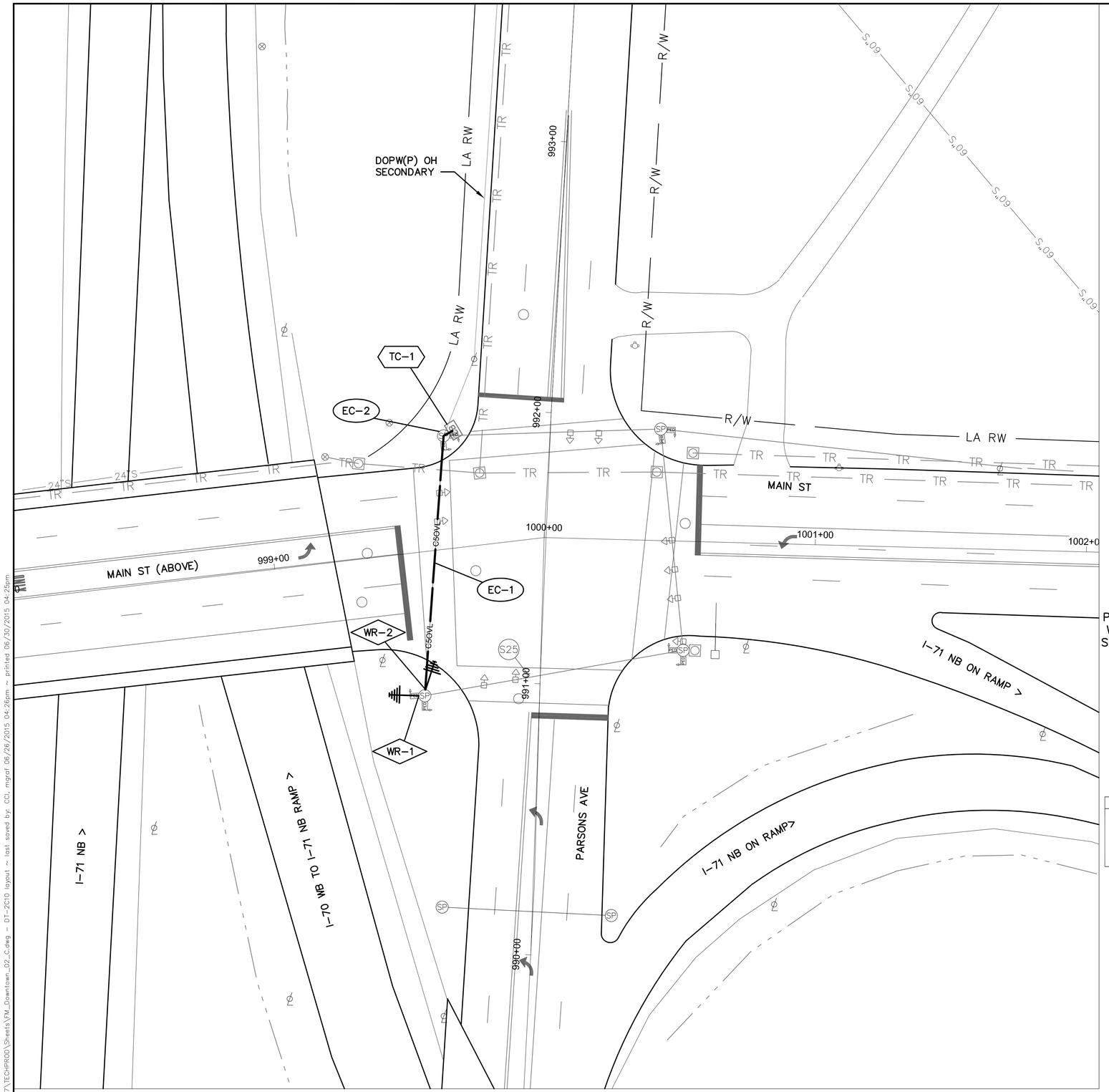
PID NUMBER 13034

MAIN ST AT WASHINGTON AVE
INTERSECTION 0080

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

146
1107

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MAIN ST AT PARSONS AVE - 0081

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 145

PROPOSED WIRELESS SEE SHEET 149

INT #0081 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEETS 509 AND 510 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 148 FOR INTERSECTION QUANTITIES
3. SEE SHEET 837 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

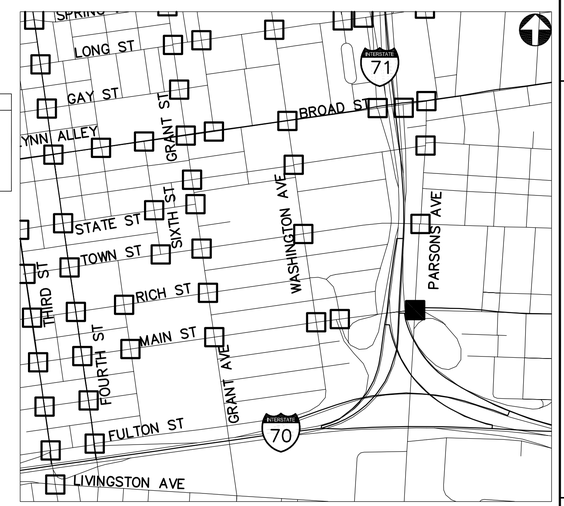
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MAIN ST AT PARSONS AVE
INTERSECTION 0081

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

147
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)	633 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	815 SPREAD SPECTRUM RADIO, AS PER PLAN (EACH)
INTERSECTION 0065: GRANT AVE. AT TOWN ST.											
143	TC-1	986+99, 25' LT				1	1				
143	EC-1	986+99, 25' LT						70			
143	WR-1	986+99, 25' LT									1
143	EC-2	986+99, 25' LT	987+95, 25' LT	95				95			
143	WR-2	987+95, 25' LT									1
INTERSECTION 0066: TOWN ST. AT WASHINGTON AVE.											
144	TC-1	987+76, 25' LT				1	1				
144	EC-1	987+76, 25' LT						70			
144	EC-2	987+76, 25' LT	987+76, 25' RT	50				100			
144	WR-1	987+76, 25' RT									1
144	EC-3	987+76, 25' RT	987+19, 26' RT	56				56			
144	WR-2	987+19, 26' RT									1
INTERSECTION 0067: BRYDEN RD. & TOWN ST. AT PARSONS AVE.											
145	IC-1	1001+32, 34' LT	1001+68, 33' RT	67					67		
145	IC-2	1001+68, 33' RT							120		
145	TC-1	1001+39, 30' RT			2	1	1			1	
145	OVERHEAD SAG								1		
INTERSECTION 0080: E. MAIN ST. AT WASHINGTON AVE.											
146	IC-1	988+76, 18' LT							75		
146	IC-2	988+76, 18' LT	988+77, 32' LT						24		
146	TC-1	988+77, 32' LT			2	1	1			1	
INTERSECTION 0081: E. MAIN ST. AT PARSONS AVE.											
147	IC-1	991+90, 39' LT							120		
147	TC-1	991+90, 39' LT			2	1	1			1	
		SHEET TOTAL		268	6	5	5	391	407	3	4

2762 DR. E

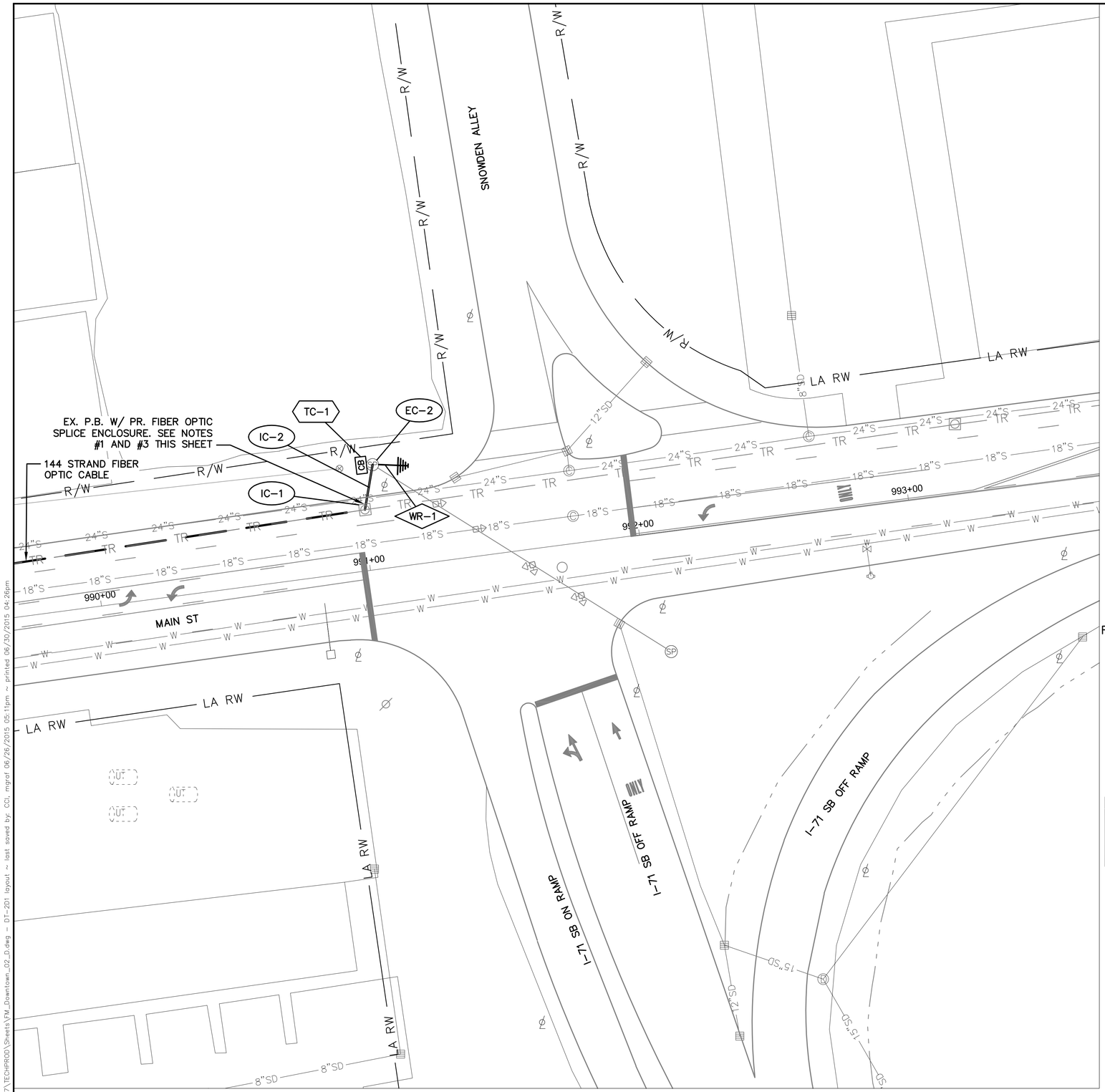
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0065, 0066, 0067, 0080 AND 0081

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

148
1107

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INTERSECTION COMMUNICATIONS

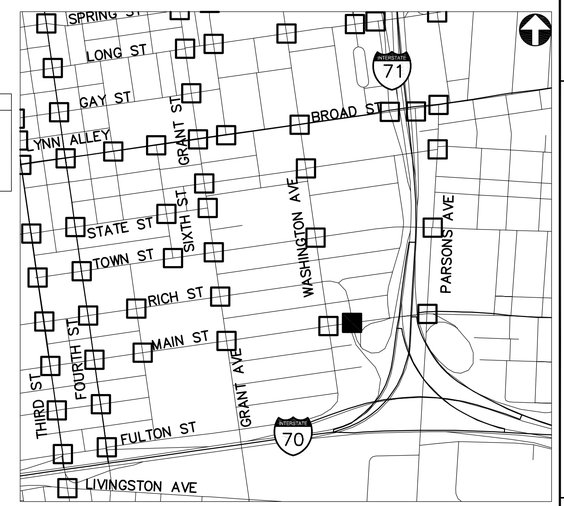
PROPOSED FIBER CABLE SEE SHEET 509 — INT #0095 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 147

NOTES:

1. SEE SHEET 509 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 154 FOR INTERSECTION QUANTITIES
3. SEE SHEET 851 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

I-71 SB OFF RAMP AT MAIN ST - 0095

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

I-71 SB RAMP AT MAIN ST
INTERSECTION 0095

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

149
1107

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144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

TC-1

EX. PB, TRF

IC-2

IC-1

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

RICH ST

FRONT ST

FRONT ST AT RICH ST - 0068

INTERSECTION QUANTITIES

PROPOSED FIBER CABLE SEE SHEET 485

PROPOSED FIBER CABLE SEE SHEET 485 — INT #0068 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 485

NOTES:

1. SEE SHEETS 485 AND 495 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 154 FOR INTERSECTION QUANTITIES
3. SEE SHEET 824 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

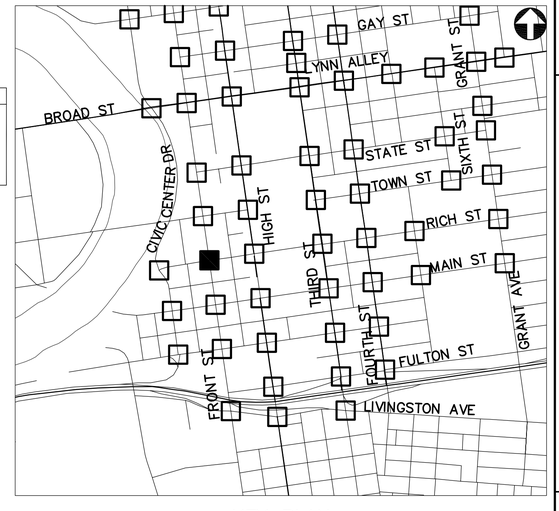
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET

PID NUMBER 13034

FRONT ST AT RICH ST INTERSECTION 0068

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

150
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

RICH ST

HIGH ST

IC-1

IC-2

TC-1

CB

S2 S3 S10 S13 S20 S30

25+00 26+00 24+00 23+00 35+00 36+00 34+00 33+00

R/W TR SD W Ø

HIGH ST AT RICH ST - 0069

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 478

INT #0069 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 478

NOTES:

1. SEE SHEET 478 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 154 FOR INTERSECTION QUANTITIES
3. SEE SHEET 825 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

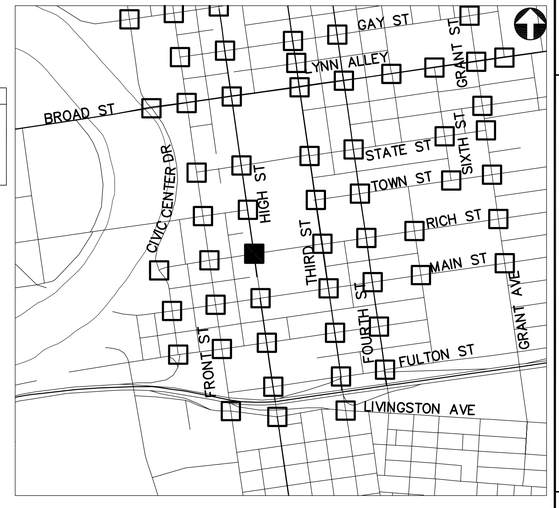
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

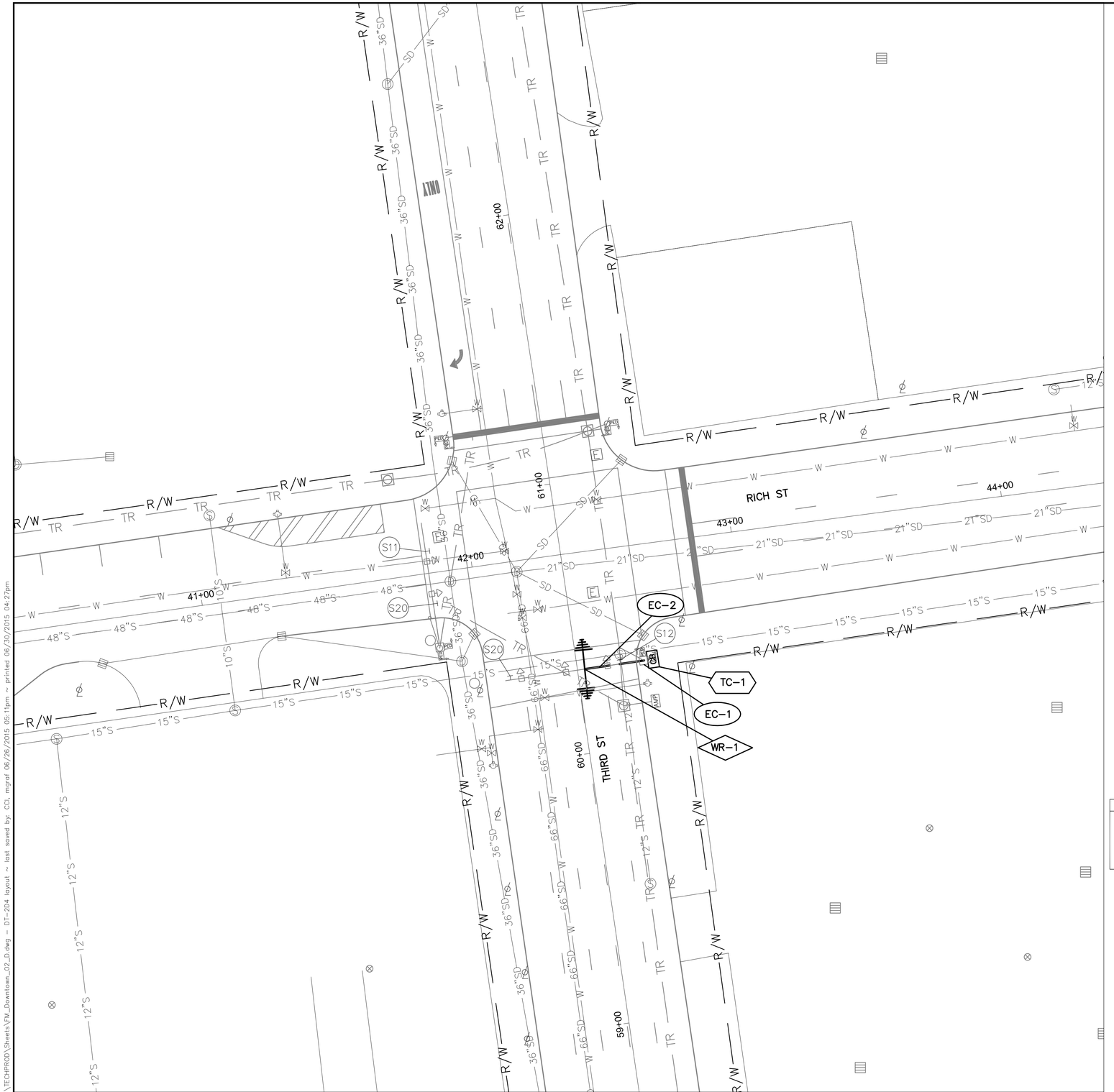
PID NUMBER 13034

HIGH ST AT RICH ST
INTERSECTION 0069

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

151
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 140

INT #0070 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 163

NOTES:

1. SEE SHEET 154 FOR INTERSECTION QUANTITIES
2. SEE SHEET 826 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

RICH ST AT THIRD ST - 0070

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

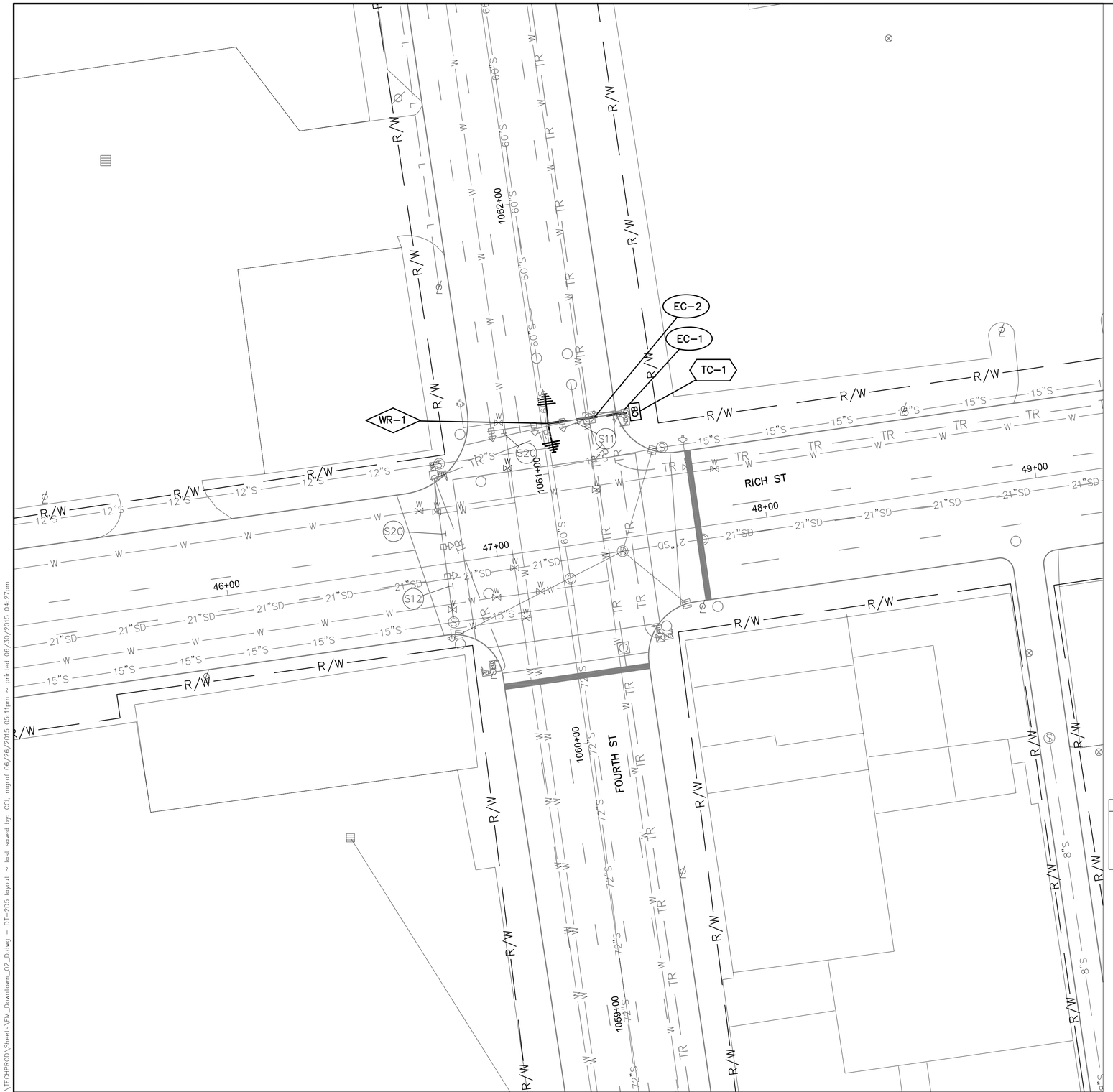
PID NUMBER 13034

RICH ST AT THIRD ST
INTERSECTION 0070

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

152
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 141

INT #0071 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 156

NOTES:

1. SEE SHEET 154 FOR INTERSECTION QUANTITIES
2. SEE SHEET 827 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

FOURTH ST AT RICH ST - 0071

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT RICH ST
INTERSECTION 0071

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

153
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		633	633	633	633	633	804	804	804	804	815												
				CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN										
		FROM	TO	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH												
INTERSECTION 0095: I-71 SB ON & OFF RAMP AT MAIN ST.																									
149	IC-1	991+01, 22' LT							75																
149	IC-2	991+01, 22' LT	991+06, 39' LT						27																
149	TC-1	991+06, 39' LT		2		1	1				1														
INTERSECTION 0068: FRONT ST. AT RICH ST.																									
150	IC-1	1014+74, 16' RT								75															
150	IC-2	1014+74, 16' RT	1015+66, 27' RT							116															
150	TC-1	1015+66, 27' RT		4		1	1					1													
150	PULL BOX SLACK									20															
INTERSECTION 0069: S HIGH ST. AT RICH ST.																									
151	IC-1	24+17, 32' LT							75																
151	IC-2	24+17, 32' LT	24+13, 55' RT						98																
151	TC-1	24+13, 55' RT		2	1	1					1														
151	PULL BOX SLACK								10																
INTERSECTION 0070: RICH ST. AT THIRD ST.																									
152	TC-1	60+31, 25' RT				1	1																		
152	EC-1	60+31, 25' RT						70																	
152	EC-2	60+31, 25' RT	60+31, 03' RT					44																	
152	WR-1	60+31, 03' RT											2												
INTERSECTION 0071: FOURTH ST. AT RICH ST.																									
153	TC-1	1061+18, 31' RT				1	1																		
153	EC-1	1061+18, 31' RT						70																	
153	EC-2	1061+18, 31' RT	1061+18, 02' RT					58																	
153	WR-1	1061+18, 02' RT											2												



INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 143

INT #0072 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 158

NOTES:

1. SEE SHEET 159 FOR INTERSECTION QUANTITIES
2. SEE SHEET 828 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

GRANT AVE AT RICH ST - 0072

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GRANT AVE AT RICH ST
INTERSECTION 0072

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

155
1107

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DOPW(P) UG PRIMARY

EX. 32" PB, TRF

WR-1

MAIN ST

INSTALL 2-2" CONDUIT

PR 32" PB

TC-1

EC-1

DOPW(P) UG ST LIGHTING

RED LIGHT CAMERA CABINET

IC-2

IC-1

SE U-1

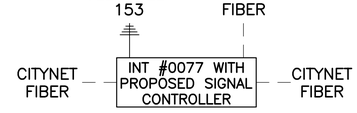
EX. 36" P.B., CITYNET-"GATEWAY COLUMBUS" W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

FOURTH ST

962+00 963+00 964+00 965+00 1054+00 1055+00 1056+00 1057+00

FOURTH ST AT MAIN ST - 0077

INTERSECTION COMMUNICATIONS



NOTES:

1. SEE SHEET 159 FOR INTERSECTION QUANTITIES
2. SEE SHEET 833 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR .E

HORIZONTAL SCALE IN FEET
0 20 40

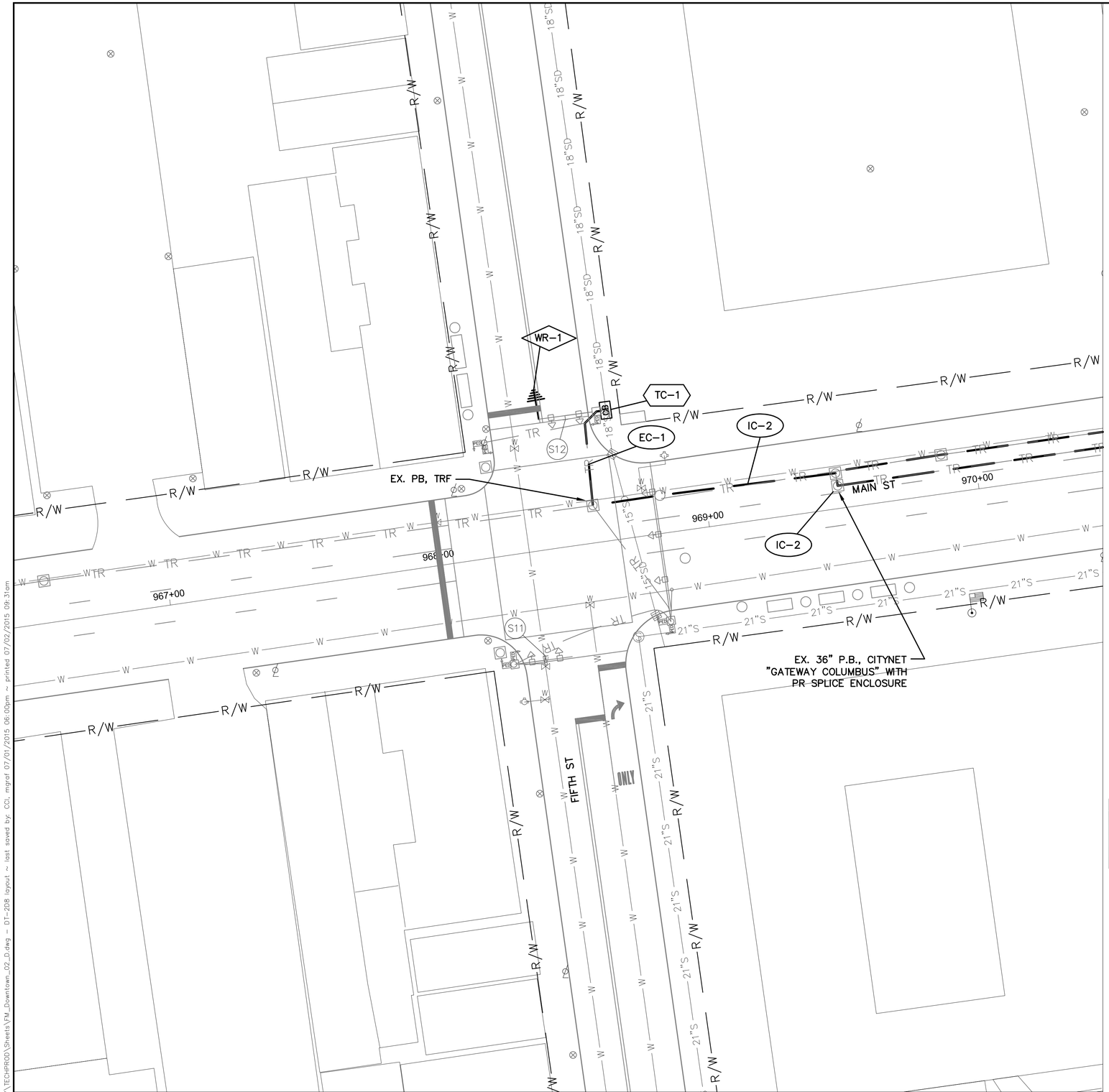
PID NUMBER 13034

FOURTH ST AT MAIN ST INTERSECTION 0077

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

156
1107

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FIFTH ST AT MAIN ST - 0078

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 178

CITYNET FIBER — INT #0078 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 159 FOR INTERSECTION QUANTITIES
2. SEE SHEET 834 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

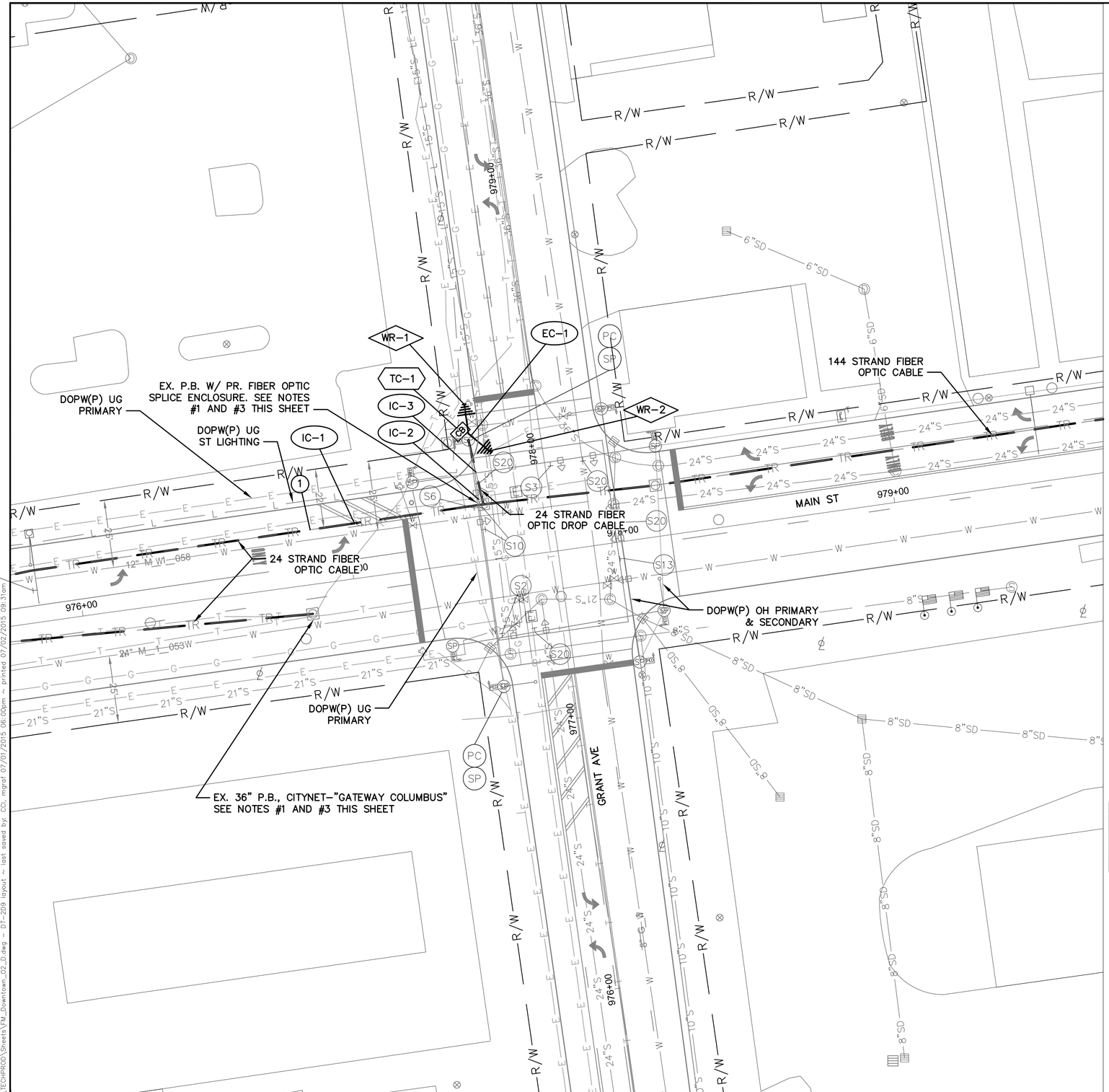
PID NUMBER 13034

FIFTH ST AT MAIN ST
INTERSECTION 0078

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

157
1107

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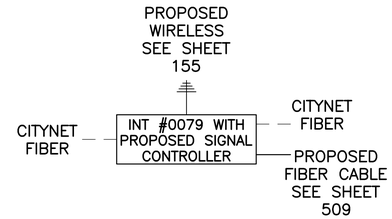


GRANT AVE AT MAIN ST - 0079

NOTES:

1. SEE SHEET 509 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 159 FOR INTERSECTION QUANTITIES
3. SEE SHEET 835 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC
5. SEE SHEET 44 FOR PAVEMENT DETAILS

INTERSECTION COMMUNICATIONS



(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GRANT AVE AT MAIN ST INTERSECTION 0079

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

158
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		202	202	608	609	625	625	632	633	633	633	633	804	804	804		815							
				CURB REMOVED	WALK REMOVED	8" CONCRETE WALK, AS PER PLAN	CURB, STRAIGHT 18", AS PER PLAN	CONDUIT, CONCRETE ENCASED, 3", 725.05, AS PER PLAN	TRENCH IN PAVED AREA, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *	SPREAD SPECTRUM RADIO, AS PER PLAN							
		FROM	TO	FT	SF	SF	FT	FT	FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH		EACH							
INTERSECTION 0072: GRANT AVE. AT RICH ST.																										
155	TC-1	982+24, 42' LT										1	1													
155	EC-1	982+24, 42' LT												70												
155	EC-2	982+24, 42' LT	982+07, 25' LT							24				48												
155	WR-1	982+07, 25' LT																	1							
155	EC-3	982+07, 25' LT	983+02, 24' LT							95				95												
155	WR-2	983+02, 24' LT																	1							
INTERSECTION 0077: FOURTH ST. AT E. MAIN ST.																										
156	SE U-1	1054+94, 36' RT															1	27								
156	IC-1	1054+94, 36' RT													75											
156	IC-2	1054+94, 36' RT	1055+50, 22' RT	10	100	100	10	62	62						62											
156	IC-3	1055+50, 22' RT	1055+54, 44' RT												32											
156	TC-1	1055+54, 44' RT									3	1	1			1										
156	EC-1	1055+54, 44' RT												35												
156	WR-1	1055+54, 44' RT																	1							
156	PULL BOX SLACK														10											
INTERSECTION 0078: FIFTH ST. AT E. MAIN ST.																										
157	SE U-1	969+49, 08' LT															1	18								
157	IC-1	969+49, 08' LT													75											
157	IC-2	969+49, 08' LT	968+59, 14' LT					90	90						90											
157	IC-3	968+59, 14' LT	968+65, 48' LT												46											
157	TC-1	968+65, 48' LT									2	1	1			1										
157	EC-1	968+65, 48' LT	968+22, 40' RT											154												
157	EC-2	968+22, 40' RT												35												
157	EC-3	968+22, 40' RT	968+36, 40' RT											14												
157	WR-1	968+36, 40' RT																	1							
157	PULL BOX SLACK													5	10											
INTERSECTION 0079: GRANT AVE. AT E. MAIN ST.																										
158	SE U-1	976+83, 11' RT															1	18								
158	IC-1	976+83, 11' RT													75											
158	IC-2	976+83, 11' RT	976+84, 20' LT					31	31						31											
158	IC-3	976+84, 20' LT	977+51, 21' LT												67											
158	IC-4	977+51, 21' LT													75											
158	IC-5	977+51, 21' LT	977+49, 45' LT												68											
158	TC-1	977+49, 45' LT									4	1	1			2										
158	EC-1	977+49, 45' LT												35												
158	EC-2	977+49, 45' LT	977+49, 46' RT							91				91												
158	WR-1	977+49, 46' RT																	1							
158	PULL BOX SLACK														20											
		SHEET TOTAL		10	100	100	10	183	183	210	9	4	4	582	736	4	3	63	5	-	-	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0072, 0077, 0078 AND0079

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

159
1107

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144 STRAND FIBER OPTIC CABLE

CTV-1

IC-1

IC-2

TC-1

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

MAIN ST

SECOND ST

939+00

940+00

941+00

942+00

107+00

108+00

109+00

106+00

MAIN ST AT SECOND ST - 0073

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 494

INT #0073 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 489

PROPOSED FIBER CABLE SEE SHEET 494

NOTES:

1. SEE SHEETS 494 AND 489 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 165 FOR INTERSECTION QUANTITIES
3. SEE SHEET 829 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

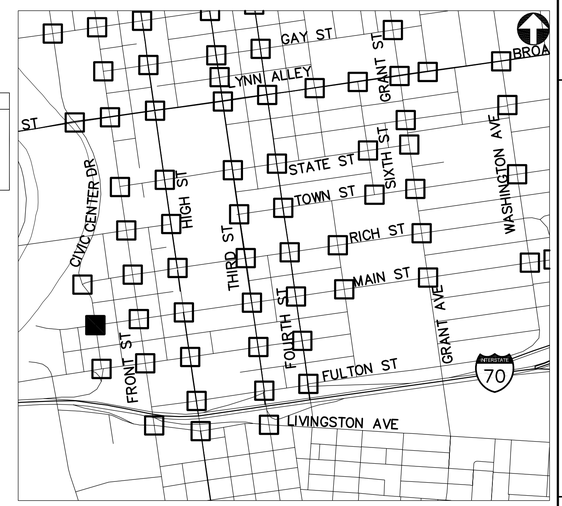
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MAIN ST AT SECOND ST
INTERSECTION 0073

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

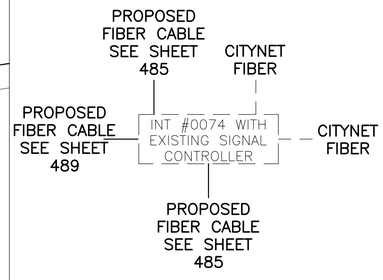
160
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_Downtown_03_A.dwg - DT-3A1 layout ~ last saved by: CDL, mgraf 06/30/2015 04:52pm ~ printed 07/01/2015 02:04pm



FRONT ST AT MAIN ST - 0074

INTERSECTION COMMUNICATIONS



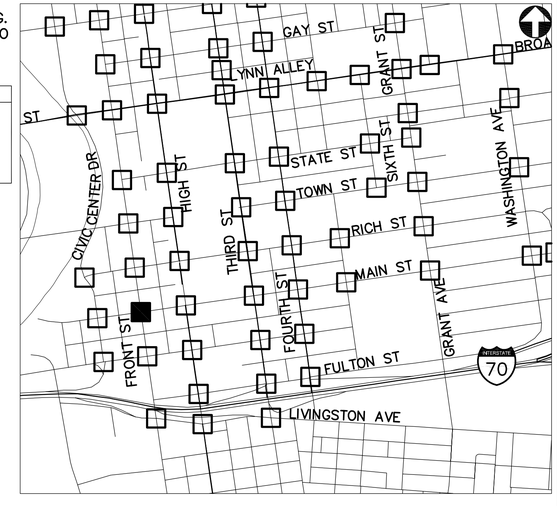
NOTES:

1. SEE SHEETS 485 AND 489 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 165 FOR INTERSECTION QUANTITIES
3. SEE SHEET 830 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 44 FOR PAVEMENT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT MAIN ST INTERSECTION 0074

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

161
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

HIGH ST

MAIN ST

CTV-1

IC-1

IC-2

TC-1

EX. PB, TRF

21+00

20+00

19+00

18+00

952+00

951+00

950+00

949+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 478

INT #0075 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 478

NOTES:

1. SEE SHEET 478 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 165 FOR INTERSECTION QUANTITIES

3. SEE SHEET 831 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

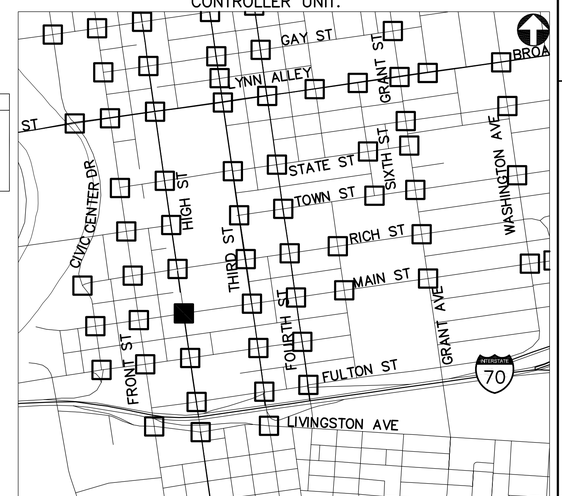
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

HIGH ST AT MAIN ST - 0075

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT MAIN ST
INTERSECTION 0075

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

162
1107

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EX. 36" P.B., CITYNET–"GATEWAY COLUMBUS"
SEE NOTE #2 THIS SHEET

DOPW(P) UG
ST LIGHTING

PR. 24" PB, TRF INTERCEPTING
EX. TRF CONDUIT.
SEE NOTE #5 THIS SHEET

IC–1

IC–2

IC–3

UGFBR

EX. 32" PB, TRF

ELECTRIC VAULT

DOPW(P) UG
PRIMARY

DOPW(P) UG
PRIMARY

TC–1

EC–1

EC–2

WR–1

MAIN ST

THIRD ST

12" WL W086-65_013 W

12"SD

957+00

956+00

959+00

960+00

57+00

56+00

55+00

54+00

INTERSECTION COMMUNICATIONS

PROPOSED
WIRELESS
SEE SHEET
152

CITYNET FIBER — INT #0076 WITH PROPOSED SIGNAL CONTROLLER — CITYNET FIBER

NOTES:

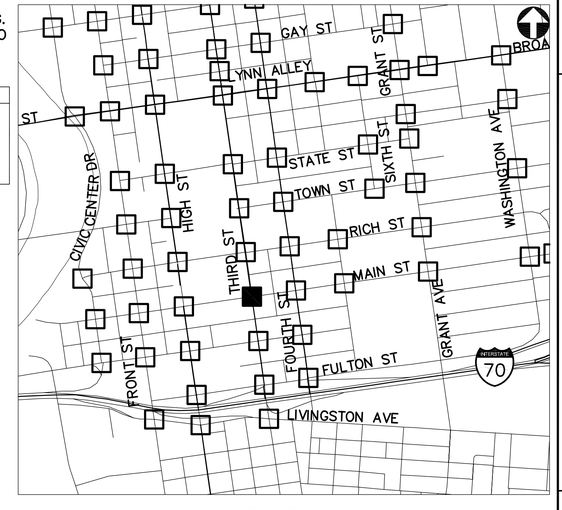
1. SEE SHEET 165 FOR INTERSECTION QUANTITIES
2. SEE SHEET 832 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. SEE SHEET 44 FOR PAVEMENT DETAILS
5. SEE SHEET 47 FOR INTERCEPTING EX CONDUIT DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

MAIN ST AT THIRD ST - 0076

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

MAIN ST AT THIRD ST
INTERSECTION 0076

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

163
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

24 FIBER TERMINATION PANEL WITH FOC DROP

EX. PB, TRF WITH FOC SPLICE ENCLOSURE. SPLICE 24 STRAND FOC TO DROP CABLE (MATCH BUFFER/FIBER COLORS)

PROOF/CLEAN EX CONDUIT

792 FT – 24 STRAND FOC IN EXISTING CONDUIT FROM EX. CCTV SITE AT FRONT ST AND FULTON ST, (INT 0090, SHEET 172) (I/C SHEET 485)

EC–2 EC–3 EC–4 WR–1 IC–1 EC–2 IC–2 TC–1

MOUND ST FRONT ST

991+00 992+00 993+00 994+00 1004+00 1005+00 1006+00 1007+00

SEE SHEET 485

FRONT ST AT MOUND ST - 0082

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 485

INT #0082 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 489

CCTV SITE

PROPOSED WIRELESS SEE SHEET 172

NOTES:

1. SEE SHEETS 485 AND 489 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 165 FOR INTERSECTION QUANTITIES
3. SEE SHEET 838 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

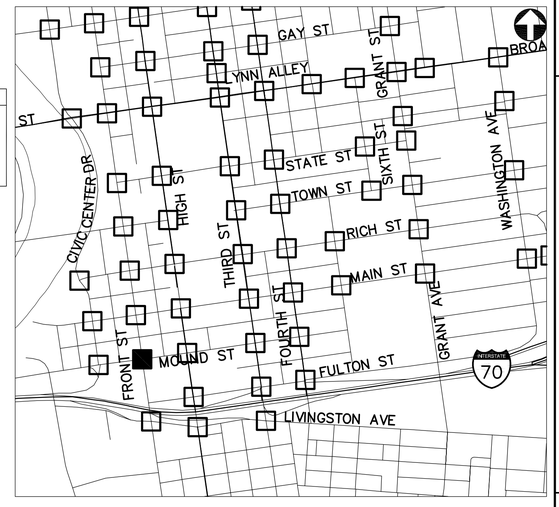
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800–362–2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT MOUND ST INTERSECTION 0082

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 489 — INT #0084 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 489

PROPOSED WIRELESS SEE SHEET 174

NOTES:

1. SEE SHEET 489 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 171 FOR INTERSECTION QUANTITIES
3. SEE SHEET 840 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

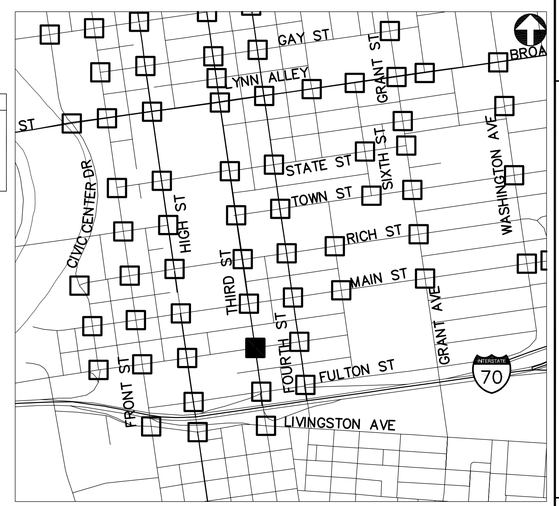
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

MOUND ST AT THIRD ST - 0084

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MOUND ST AT THIRD ST
INTERSECTION 0084

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

167
1107

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EX. PB, TRF
EC–1
EC–3
EC–2
IC–2
WR–1
EC–1
IC–2
TC–1
CB
IC–1
144 STRAND FIBER OPTIC CABLE
EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET
FOURTH ST
1052+00
1051+00
1050+00
1049+00
1011+00
1010+00
1009+00
1008+00
1011+00 MOUND ST
R/W
72"S
72"SD
48"S
21"S
12"S
10"S
W
TR
S20
S12
S11
S

FOURTH ST AT MOUND ST - 0085

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 489

INT #0085 WITH PROPOSED SIGNAL CONTROLLER

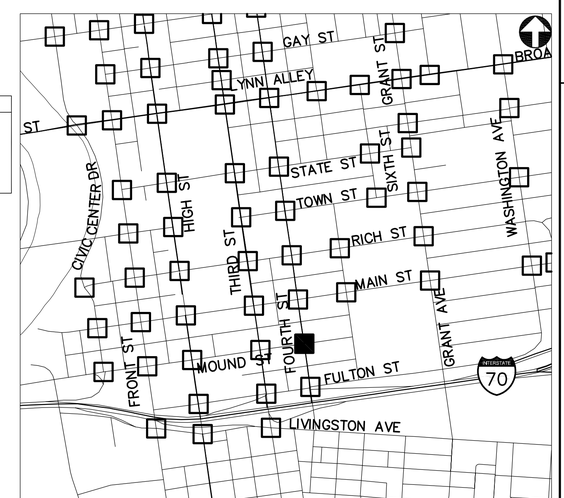
PROPOSED WIRELESS SEE SHEET 175

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

NOTES:

1. SEE SHEET 489 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 171 FOR INTERSECTION QUANTITIES
3. SEE SHEET 841 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FOURTH ST AT MOUND ST
INTERSECTION 0085

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

168
1107

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144 STRAND FIBER OPTIC CABLE

Overhead Walkway

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

EX. PB, TRF

FULTON ST

EX. PB, TRF

EX ODOT COMM NODE CABINET

IC-1

EC-1

TC-1

EC-1
IC-2

WR-1

CB

I-70 WB/I-71 SB (BELOW)

HIGH ST (ABOVE)

10+00

11+00

9+00

8+00

R/W

LA RW

TR

12"SD

96"SD

W

S3

S11

S12

S18

S20

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 478

INT #0087 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 170

NOTES:

1. SEE SHEET 478 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 171 FOR INTERSECTION QUANTITIES
3. SEE SHEET 843 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

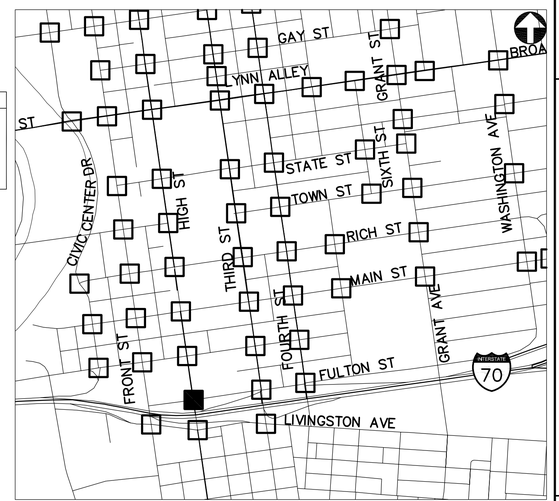
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

FULTON ST AT HIGH ST - 0087

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

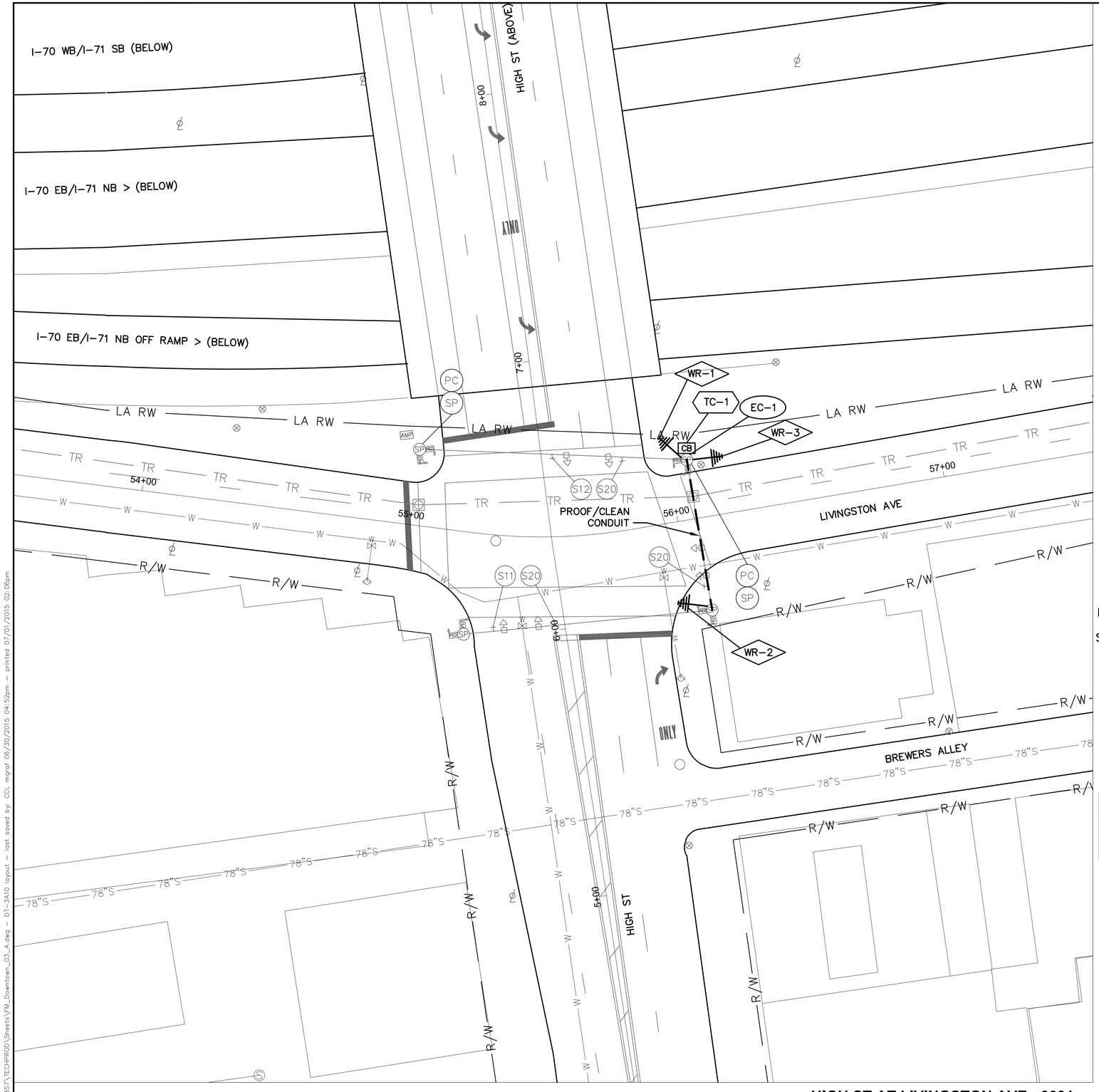
PID NUMBER 13034

FULTON ST AT HIGH ST
INTERSECTION 0087

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

169
1107

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HIGH ST AT LIVINGSTON AVE - 0091

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 169

PROPOSED WIRELESS SEE SHEET 172 — INT #0091 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 176

NOTES:

1. SEE SHEET 171 FOR INTERSECTION QUANTITIES
3. SEE SHEET 847 FOR COMMUNICATION DETAILS
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

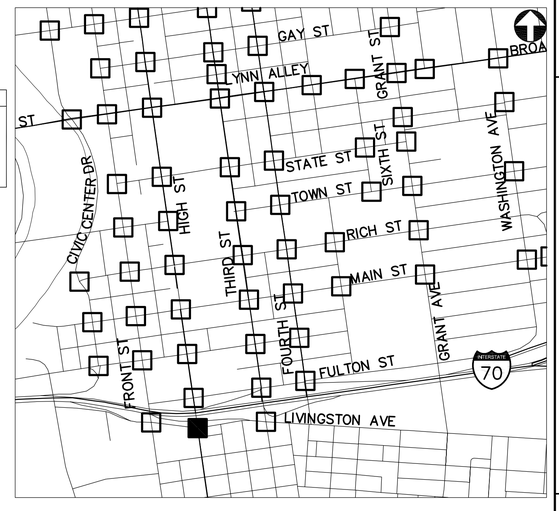
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT LIVINGSTON AVE
INTERSECTION 0091

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

170
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	804	804	804	804	815											
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN										
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH											
INTERSECTION 0083: HIGH ST. AT MOUND ST.																										
166	IC-1	997+23, 21' LT										75														
166	IC-2	997+23, 21' LT	996+84, 33' RT									78														
166	TC-1	996+84, 33' RT			4	1	1							1												
166	PULL BOX SLACK											10														
INTERSECTION 0084: MOUND ST. AT THIRD ST.																										
167	IC-1	1004+60, 22' RT									75															
167	IC-2	1004+60, 22' RT	1004+73, 41' RT								48															
167	TC-1	1004+73, 41' RT			2		1	1					1													
167	EC-1	1004+73, 41' RT								35																
167	EC-2	1004+73, 41' RT	1004+96, 41' RT							23																
167	WR-1	1004+96, 41' RT													1											
167	PULL BOX SLACK										10															
INTERSECTION 0085: FOURTH ST. AT MOUND ST.																										
168	IC-1	1050+91, 19' RT									75															
168	IC-2	1050+91, 19' RT	1051+18, 53' LT								166															
168	TC-1	1051+18, 53' LT			2		1		1				1													
168	EC-1	1051+18, 53' LT	1051+41, 29' RT							119																
168	EC-2	1051+41, 29' RT								35																
168	EC-3	1051+41, 29' RT	1051+41, 05' RT							24																
168	WR-1	1051+41, 05' RT													1											
168	PULL BOX SLACK									5	10															
INTERSECTION 0087: FULTON ST. AT HIGH ST.																										
169	IC-1	9+59, 28' LT									75															
169	IC-2	9+59, 28' LT	9+36, 67' LT								55															
169	TC-1	9+36, 67' LT			2		1		1				1													
169	EC-1	9+36, 67' LT	10+15, 32' RT							169																
169	EC-2	10+15, 32' RT								70																
169	EC-3	10+15, 32' RT	10+15, 16' RT							16																
169	WR-1	10+15, 16' RT													1											
169	WR-2	10+15, 32' RT													1											
169	PULL BOX SLACK									15																
INTERSECTION 0091: HIGH ST. AT LIVINGSTON AVE.																										
170	TC-1	56+07, 22' LT					1		1																	
170	EC-1	56+07, 22' LT								70																
170	WR-1	56+07, 22' LT													1											
170	EC-2	56+07, 22' LT	55+00, 28' LT	99						99																
170	WR-2	55+00, 28' LT													1											

MATCH LINE STA. 1001+50, SEE INTERCONNECT SHEET 485

REPLACE EX 1/2" COAXIAL CABLE WITH RISER RATED FOC

CTV-1

CCTV

792 FT – 24 STRAND FOC

FOC SPLICE ENCLOSURE IN BUILDING
TRANSITION 24 STRAND FOC
TO RISER RATED FOC
(MATCH BUFFER TUBE/FIBER COLORS)

EX. PB, TRF

792 FT – 24 STRAND FOC IN EX. CONDUIT
TO CB AT FRONT ST AND MOUND ST,
(INT 0082, SHEET 164)

I-70 WB/I-71 SB (BELOW)

I-70 EB/I-71 NB (BELOW)

I-70 EB/I-71 NB OFF RAMP (BELOW)

FRONT ST (ABOVE)

FULTON ST

LIVINGSTON AVE

TC-1

WR-1

EC-1

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 164

INT #0090 WITH PROPOSED SIGNAL CONTROLLER

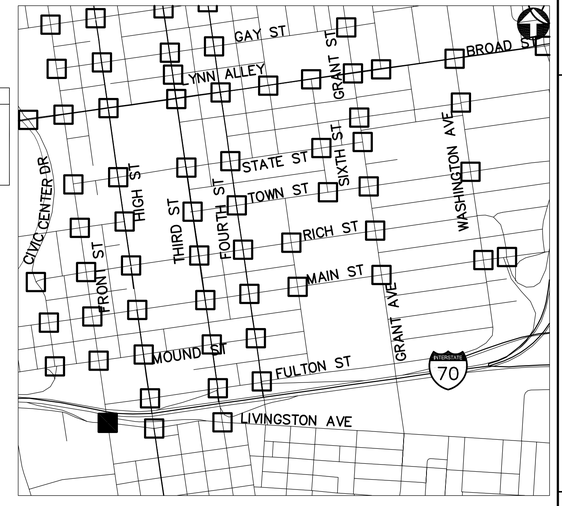
PROPOSED WIRELESS SEE SHEET 170

NOTES:

1. SEE SHEET 177 FOR INTERSECTION QUANTITIES
2. SEE SHEET 466 FOR WIRELESS SCHEMATIC
3. SEE SHEET 846 FOR COMMUNICATION DETAILS
4. SEE SHEET 838 FOR EXISTING CCTV COMMUNICATION DETAILS
5. EXISTING CCTV MOUNTED ON BUILDING ROOF. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROPERTY OWNER PRIOR TO START OF WORK

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



KEY PLAN
NOT TO SCALE

FRONT ST AT FULTON ST AND LIVINGSTON AVE - 0090

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRONT ST AT FULTON ST AND LIVINGSTON AVE
INTERSECTION 0090

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

172
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_Downtown_03_B.dwg – DT-3B1 layout ~ last saved by: CCI, mgraf 07/01/2015 05:10pm ~ printed 07/01/2015 05:11pm

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

SECOND ST

MOUND ST

LA RW

I-70 WB ON RAMP

104+00

103+00

102+70.19

989+00

988+00

987+00

986+00

S11

S12

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 494

INT #0096 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 494 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 177 FOR INTERSECTION QUANTITIES

3. SEE SHEET 852 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

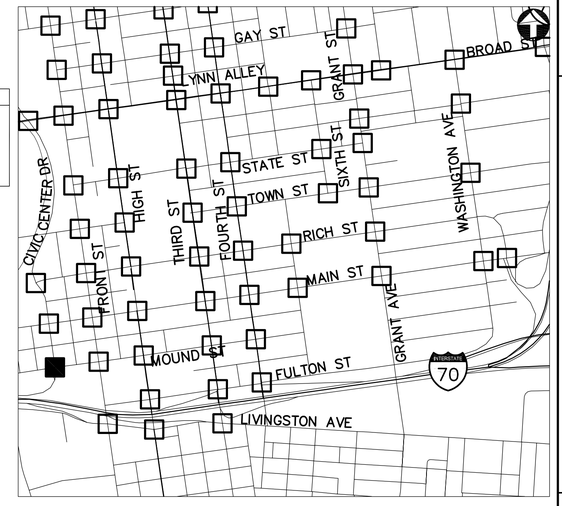
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

MOUND ST AT SECOND ST - 0096

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MOUND ST AT SECOND ST
INTERSECTION 0096

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

173
1107

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FULTON ST AT THIRD ST- 0088

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 167

INT #0088 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 175

PROPOSED WIRELESS SEE SHEET 176

NOTES:

1. SEE SHEET 177 FOR INTERSECTION QUANTITIES
2. SEE SHEET 844 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

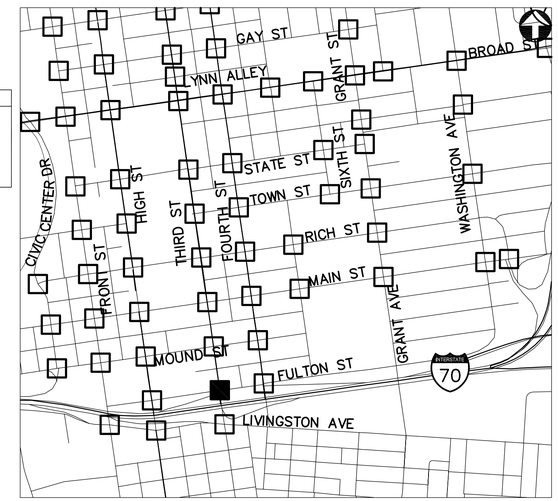
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FULTON ST AT THIRD ST
INTERSECTION 0088

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

174
1107

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FOURTH ST AT FULTON ST - 0089

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 168

PROPOSED WIRELESS SEE SHEET 174

INT #0089 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 177 FOR INTERSECTION QUANTITIES
2. SEE SHEET 845 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

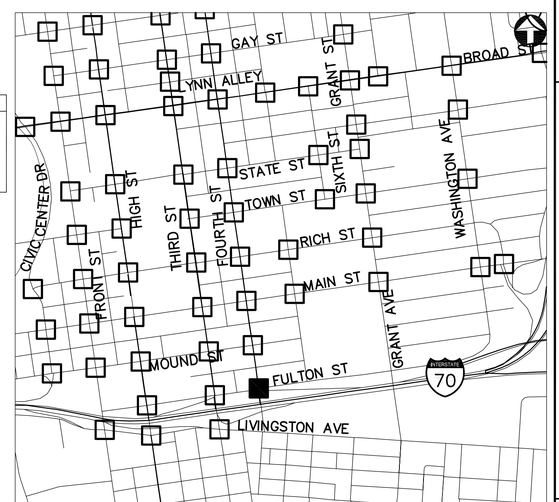
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

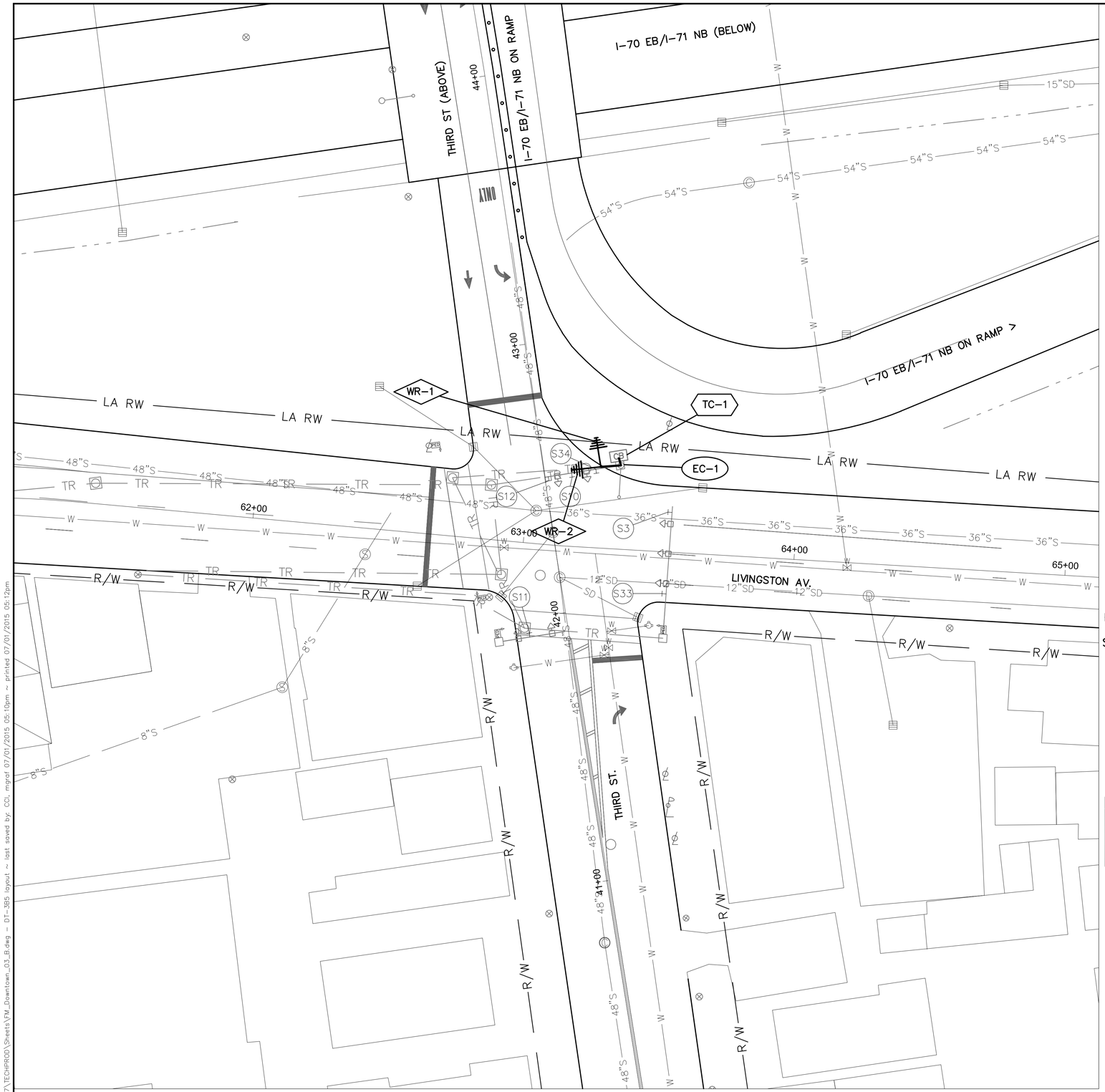
PID NUMBER 13034

FOURTH ST AT FULTON ST
INTERSECTION 0089

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

175
1107

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LIVINGSTON AVE AT THIRD ST- 0092

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 174

PROPOSED WIRELESS SEE SHEET 170

INT #0092 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 177 FOR INTERSECTION QUANTITIES
2. SEE SHEET 848 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

LIVINGSTON AVE AT THIRD ST
INTERSECTION 0092

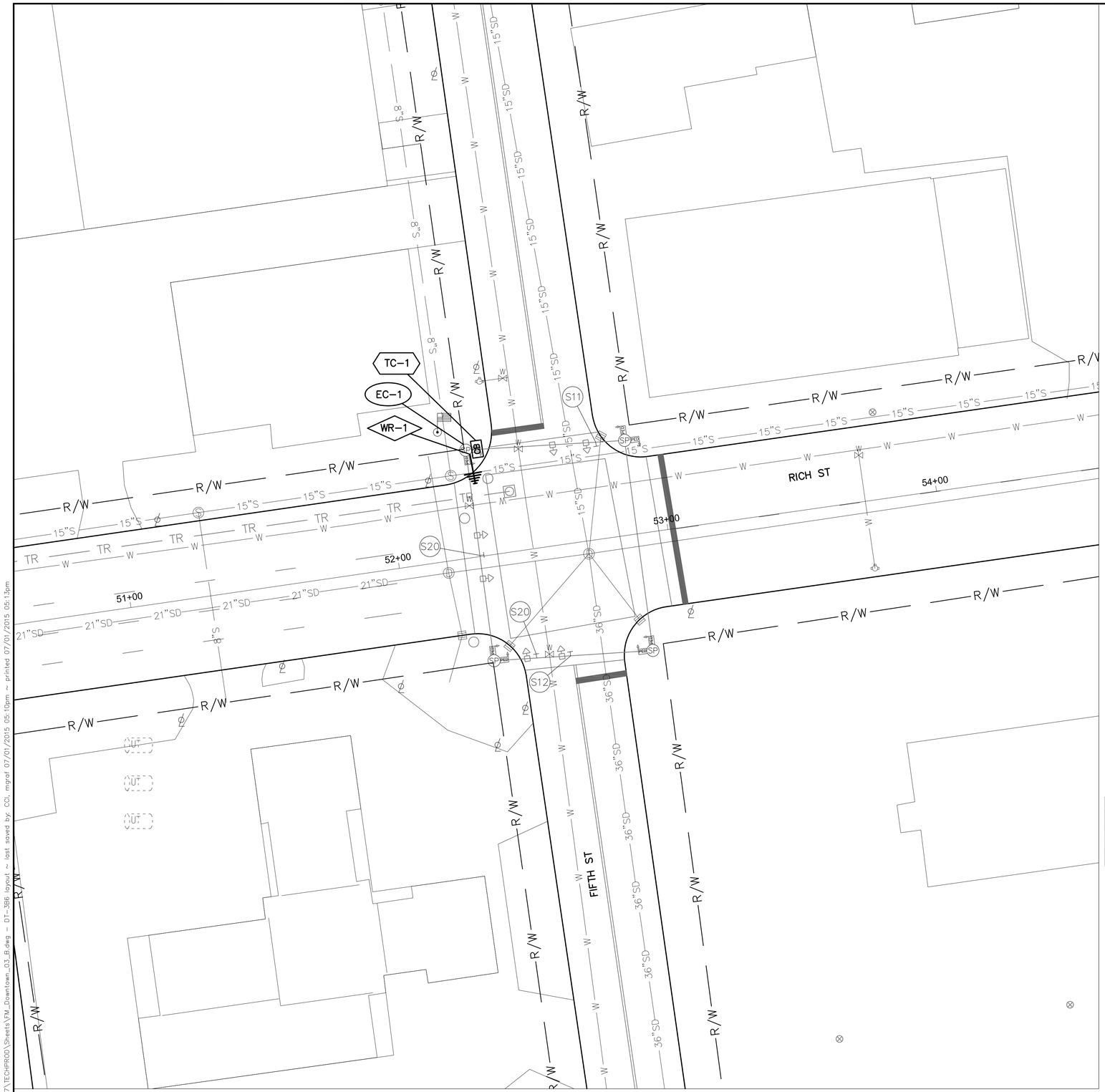
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

176
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	633	804	804	815												
				INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC.: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN											
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH												
INTERSECTION 0090: FRONT ST. AT FULTON ST. & LIVINGSTON AVE.																										
172	TC-1	998+44, 38' RT					1			1																
172	EC-1	998+44, 38' RT									70															
172	WR-1	998+44, 38' RT												2												
172	EC-2	1001+50, 16' RT	1000+84, 257' RT	337																						
172	CTV-1	1000+84, 257' RT			1		1	1	1		20															
INTERSECTION 0096: MOUND ST. AT SECOND ST.																										
173	IC-1	102+89, 13' LT										75														
173	IC-2	102+89, 13' LT	102+92, 45' LT									43														
173	TC-1	102+92, 45' LT				1	1	1					1													
INTERSECTION 0088: FULTON ST. AT THIRD ST.																										
174	TC-1	46+23, 50' LT					1			1																
174	EC-1	46+23, 50' LT									35															
174	WR-1	46+23, 50' LT												1												
174	EC-2	46+23, 50' LT	45+62, 29' LT								148															
174	EC-3	45+62, 29' LT									70															
174	EC-4	45+62, 29' LT	45+63, 14' RT								86															
174	WR-2	45+63, 14' RT												2												
INTERSECTION 0089: FOURTH ST. AT FULTON ST.																										
175	TC-1	1046+23, 41' LT					1			1																
175	EC-1	1046+23, 41' LT	1046+40, 29' LT								31															
175	EC-2	1046+40, 29' LT									35															
175	EC-3	1046+40, 29' LT	1046+40, 00								29															
175	WR-1	1046+40, 00												1												
175	EC-4	1046+23, 41' LT									35															
175	EC-5	1046+23, 41' LT	1045+99, 41' LT								23															
175	WR-2	1045+99, 41' LT												1												
INTERSECTION 0092: LIVINGSTON AVE. AT THIRD ST.																										
176	TC-1	42+51, 28' RT					1	1																		
176	EC-1	42+51, 28' RT									35															
176	EC-2	42+51, 28' RT	42+51, 00								28															
176	WR-1	42+51, 00												1												
176	EC-3	42+51, 28' RT	41+85, 34' RT								184															
176	EC-4	41+85, 34' RT									35															
176	EC-5	41+85, 34' RT	42+21, 42' RT								37															
176	WR-2	42+21, 42' RT												1												



FIFTH ST AT RICH ST - 0094

INTERSECTION COMMUNICATIONS

INT #0094 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 157

NOTES:

1. SEE SHEET 183 FOR INTERSECTION QUANTITIES
2. SEE SHEET 850 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

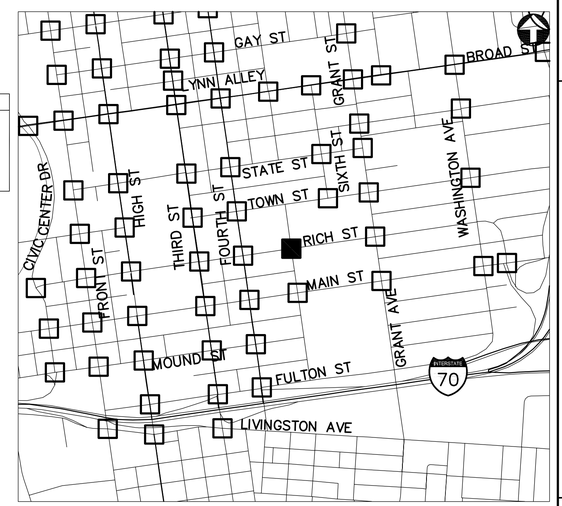
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FIFTH ST AT RICH ST
INTERSECTION 0094

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

178
1107

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144 STRAND FIBER OPTIC CABLE

DOPW 104670

DOPW(P) OH PRIMARY

DOPW 104669

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

PARK ST

FRONT ST

VINE ST

ONLY

IC-1

IC-2

TC-1

59+00

60+00

61+00

62+00

1+00

2+00

10+00

1067+00

1068+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 507

INT #0106 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 507

PROPOSED FIBER CABLE SEE SHEET 487

NOTES:

1. SEE SHEETS 487 AND 507 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 183 FOR INTERSECTION QUANTITIES

3. SEE SHEET 860 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

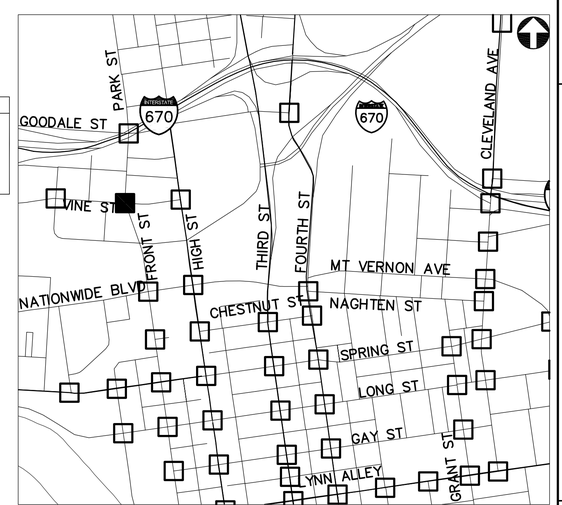
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

FRONT ST & PARK ST AT VINE ST - 0106

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

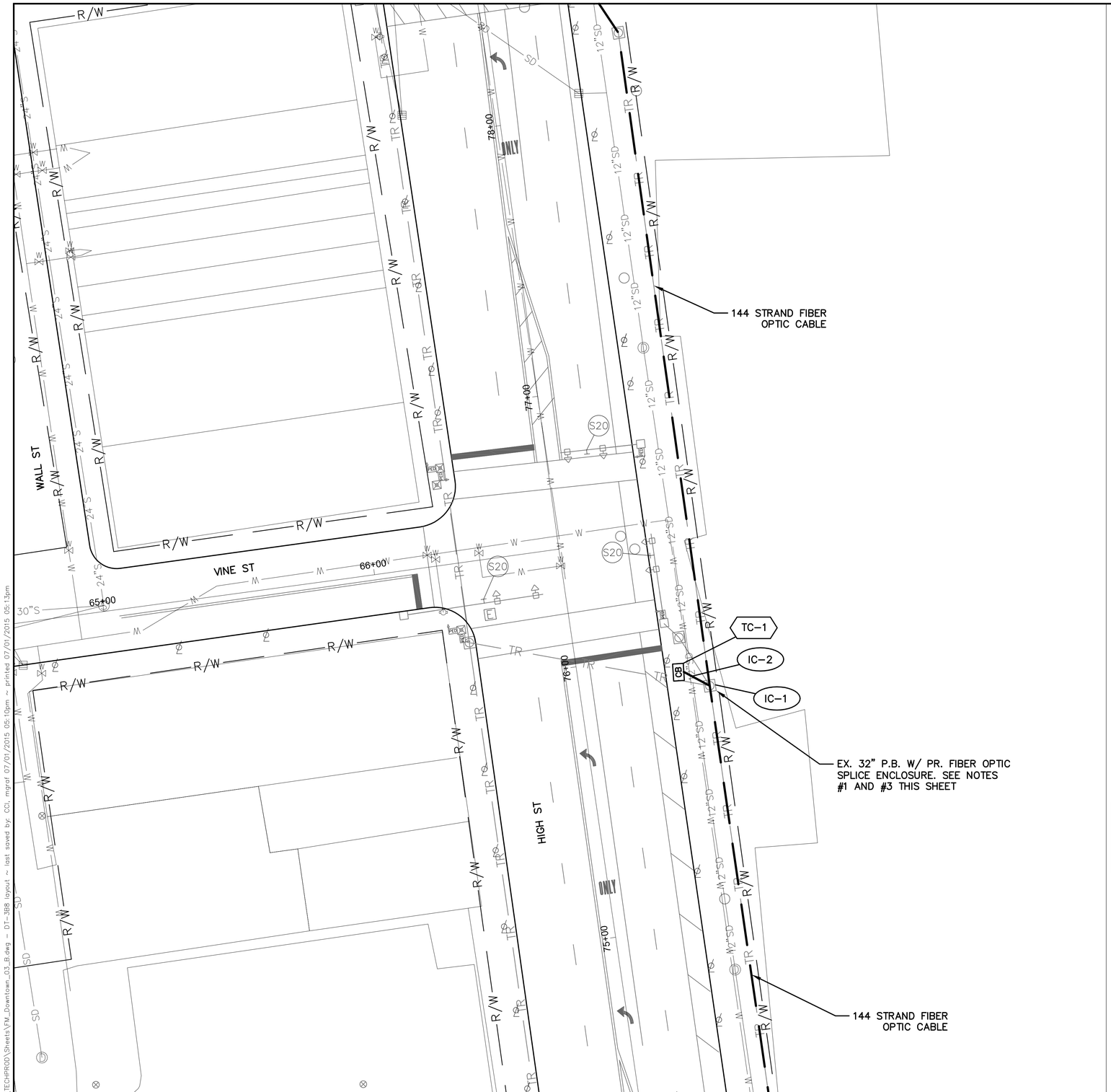
PID NUMBER 13034

FRONT ST & PARK ST AT VINE ST
INTERSECTION 0106

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

179
1107

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HIGH ST AT VINE ST - 0107

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 482

INT #0107 WITH PROPOSED SIGNAL CONTROLLER

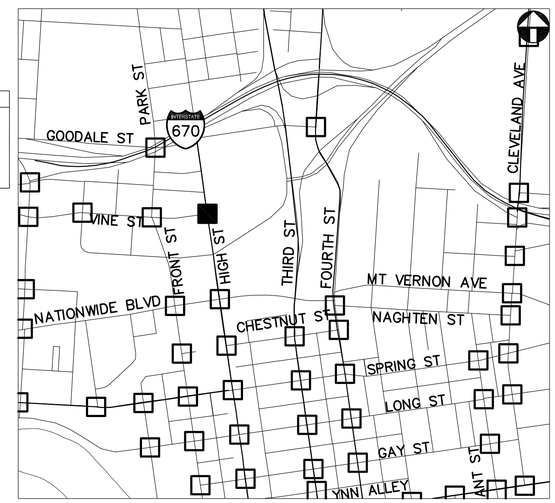
PROPOSED FIBER CABLE SEE SHEET 482

NOTES:

1. SEE SHEET 482 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 183 FOR INTERSECTION QUANTITIES
3. SEE SHEET 861 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HIGH ST AT VINE ST
INTERSECTION 0107

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

180
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

EX. PB, TRF

TC-1

Overhead Walkway

IC-1

IC-2

TO SPRING ST.

WR-1

NATIONWIDE GARAGE ACCESS

NATIONWIDE PLAZA

FRONT ST

144 STRAND FIBER OPTIC CABLE

HICKORY ST

FRONT ST AT NATIONWIDE GARAGE - 0108

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 487

INT #0108 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 487

NOTES:

1. SEE SHEET 487 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 183 FOR INTERSECTION QUANTITIES
3. SEE SHEET 862 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

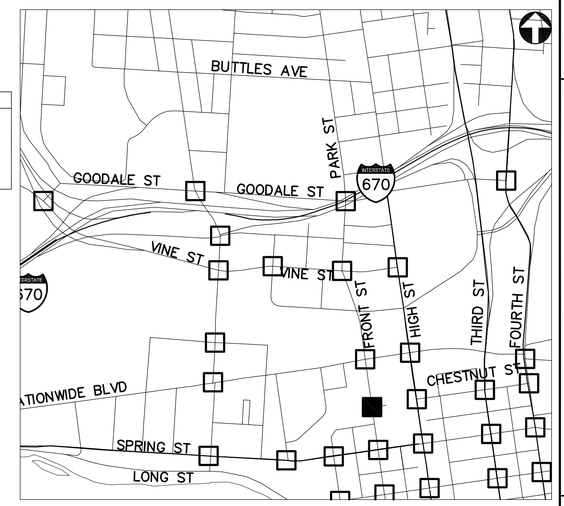
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

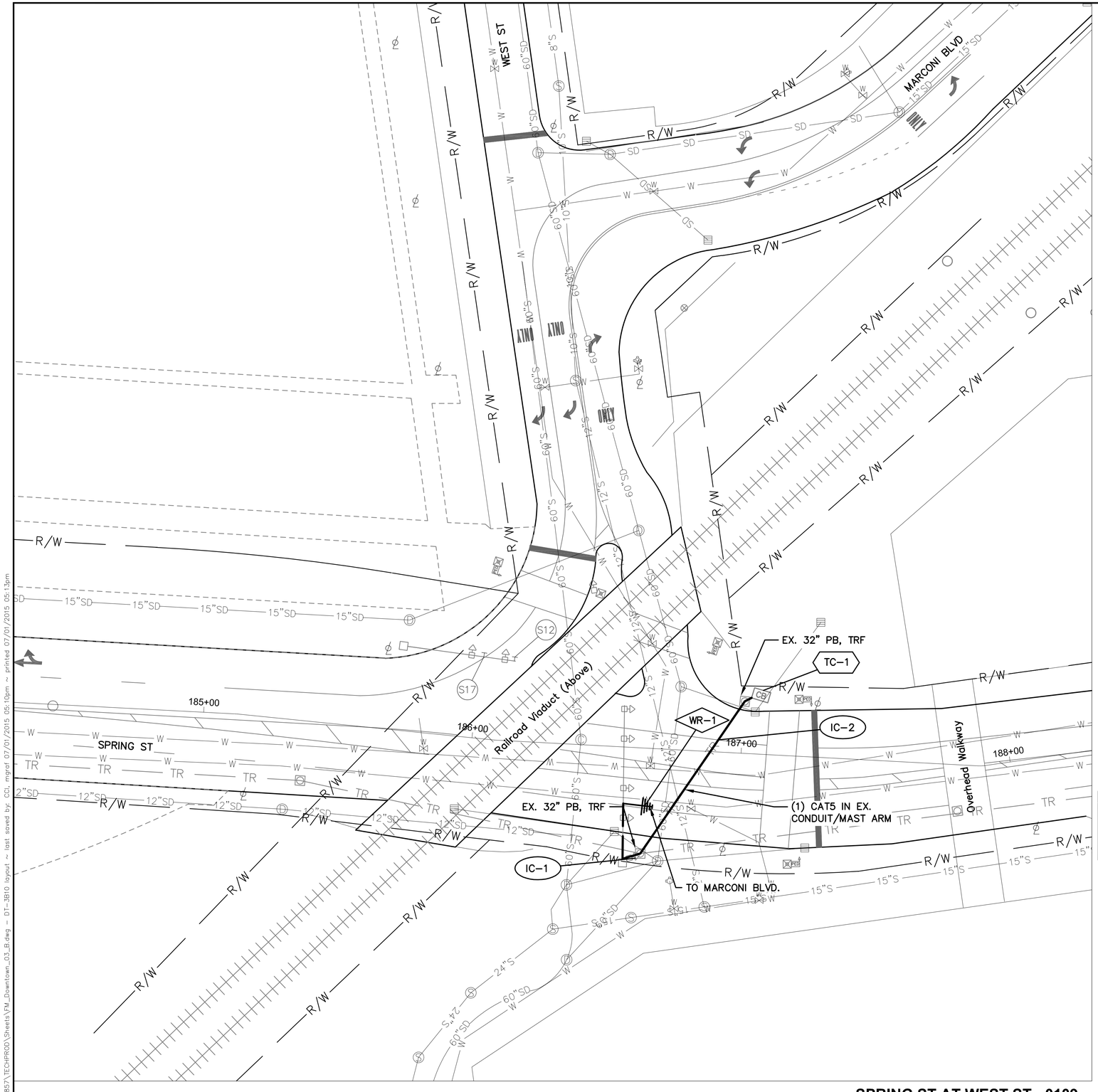
PID NUMBER 13034

FRONT ST AT NATIONWIDE GARAGE INTERSECTION 0108

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

181
1107

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SPRING ST AT WEST ST - 0109

INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 496 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 183 FOR INTERSECTION QUANTITIES
3. SEE SHEET 863 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

INT #0109 WITH EXISTING SIGNAL CONTROLLER → PROPOSED WIRELESS SEE SHEET XX

UNDERGROUND UTILITIES

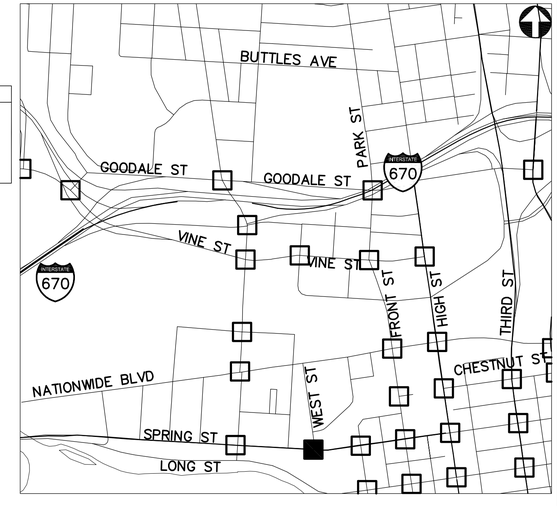
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

SPRING ST AND WEST ST
INTERSECTION 0109

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

182
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	633 INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED (FT)	633 CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER (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)	804 FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.; 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)	815 SPREAD SPECTRUM RADIO, AS PER PLAN (EACH)
INTERSECTION 0094: FIFTH ST. AT RICH ST.													
178	TC-1	52+30, 40' LT				1		1					
178	EC-1	52+30, 40' LT		35									
178	WR-1	52+30, 40' LT											1
INTERSECTION 0106: FRONT ST. & PARK ST. AT VINE ST.													
179	IC-1	60+05, 08' RT								75			
179	IC-2	60+05, 08' RT	59+97, 22' RT							31			
179	TC-1	59+97, 22' RT			3	1	1					1	
179	PULL BOX SLACK									10			
INTERSECTION 0107: HIGH ST. AT VINE ST.													
180	IC-1	75+86, 47' RT							75				
180	IC-2	75+86, 47' RT	75+92, 39' RT						21				
180	TC-1	75+92, 39' RT			2	1		1			1		
INTERSECTION 0108: FRONT ST. AT NATIONWIDE GARAGE													
181	IC-1	1052+86, 21' RT							75				
181	IC-2	1052+86, 21' RT	1052+91, 37' LT						70				
181	TC-1	1052+91, 37' LT			2	1		1			1		
181	PULL BOX SLACK								10				
INTERSECTION 0109: SPRING ST. AT WEST ST.													
182	IC-1	186+65, 39' RT							75				
182	IC-2	186+65, 39' RT	187+06, 22' LT						84				
182	TC-1	187+06, 22' LT			2	1	1				1		
182	PULL BOX SLACK								10				
SHEET TOTAL				35	9	5	2	3	420	116	3	1	1

2762 DR. E

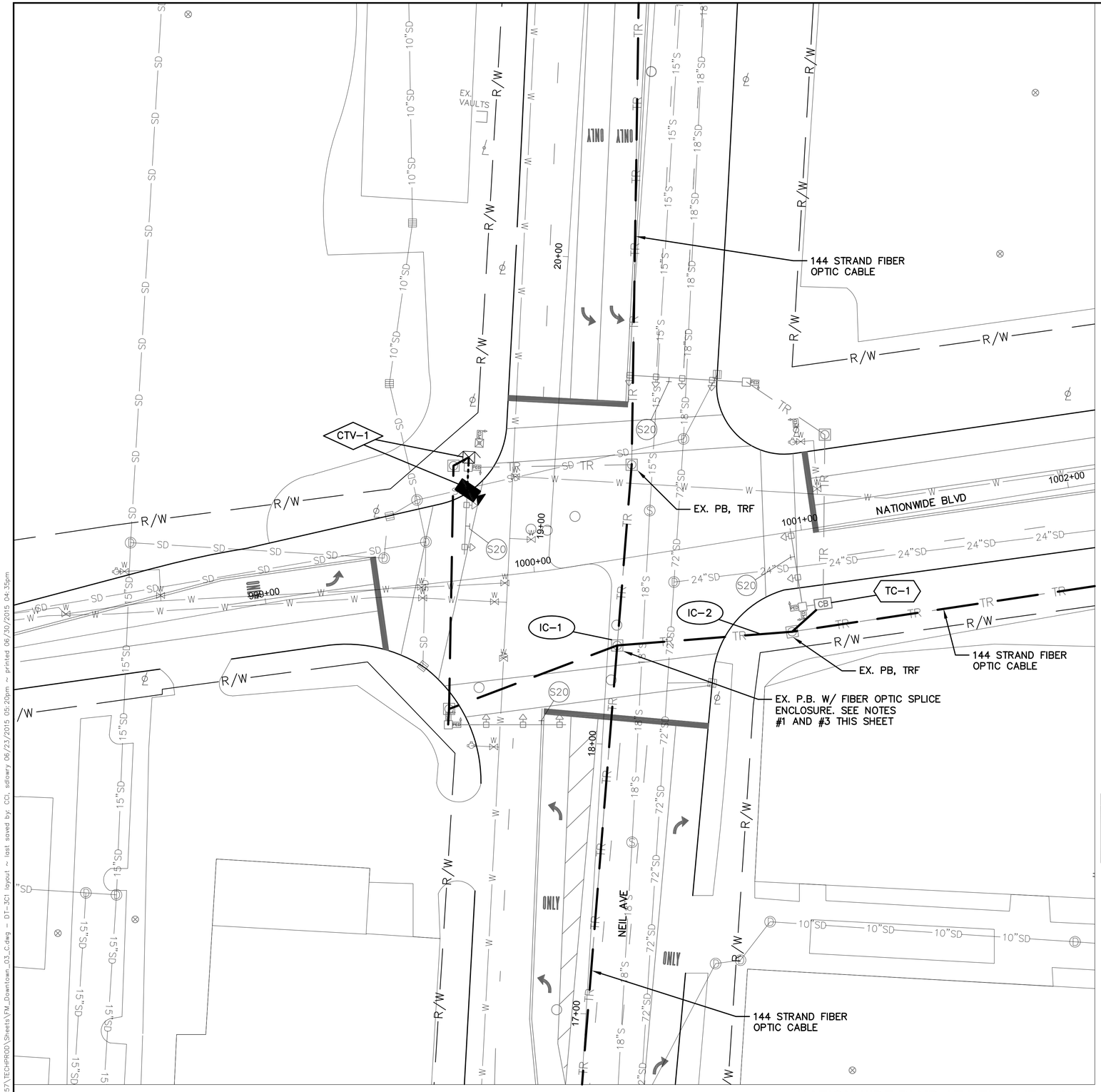
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 0094, 0106, 0107, 0108 AND 0109

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

183
1107

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NATIONWIDE BLVD AT NEIL AVE - 0099

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 498

INT #0099 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 501

PROPOSED FIBER CABLE SEE SHEET 498

NOTES:

1. SEE SHEETS 498 AND 501 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 189 FOR INTERSECTION QUANTITIES

3. SEE SHEET 854 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

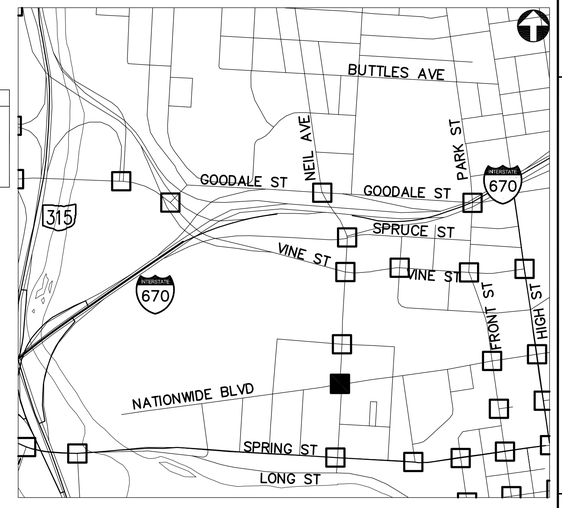
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

NATIONWIDE BLVD AT NEIL AVE
INTERSECTION 0099

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

184
1107

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144 STRAND FIBER OPTIC CABLE

NEIL AVE

BRODBELT LN

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

IC-1 IC-2 TC-1

25+00 24+00 23+00 22+00

BRODBELT LN AT NEIL AVE - 0113

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 498

INT #0113 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 498

NOTES:

1. SEE SHEET 498 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 189 FOR INTERSECTION QUANTITIES
3. SEE SHEET 865 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

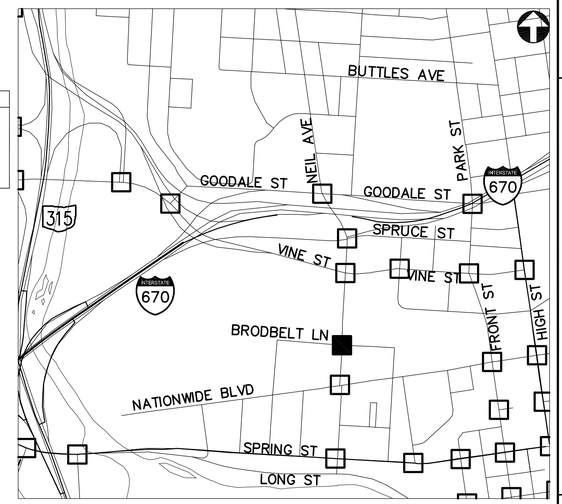
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BRODBELT LN AT NEIL AVE INTERSECTION 0113

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

185
1107

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144 STRAND FIBER OPTIC CABLE

NEIL AVE

37+00

36+00

IC-4

IC-3

IC-2

IC-1

IC-5

IC-6

TC-1

ICNEW

I-670 EB ON RAMP

SPRUCE ST

57+00

54+00
I-670 EB OFF RAMP

55+00

85+00

86+00

34+00

ONLY

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

LA RW

R/W

NEIL AVE AT SPRUCE ST - 4066

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 499

INT #4066 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 499

NOTES:

1. SEE SHEET 499 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 189 FOR INTERSECTION QUANTITIES
3. SEE SHEET 916 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

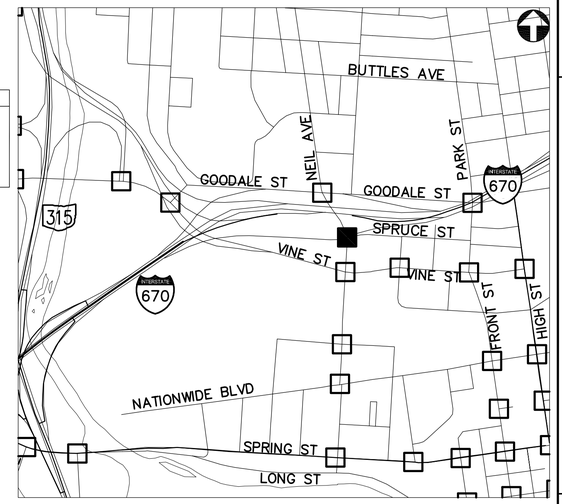
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

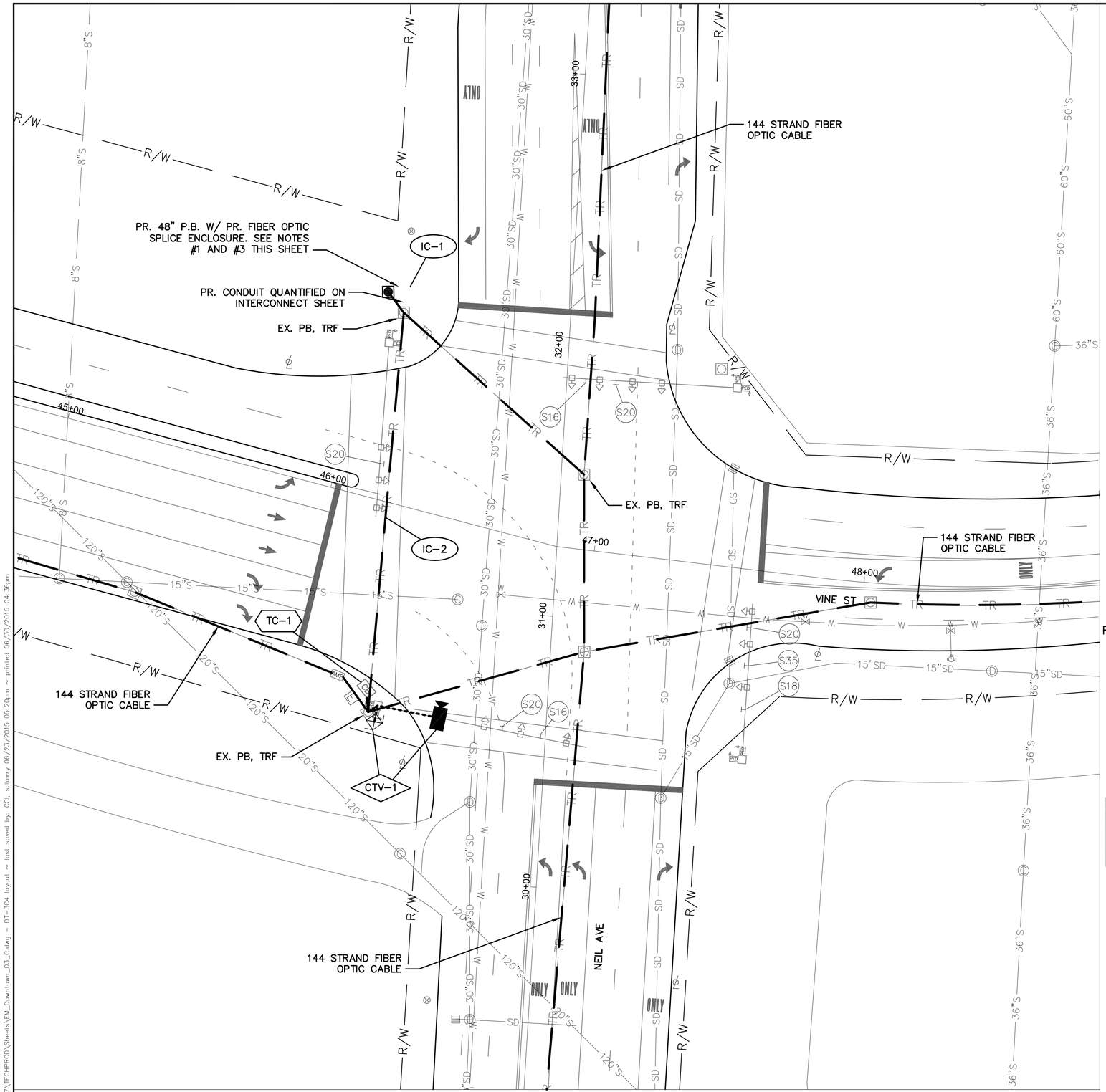
PID NUMBER 13034

NEIL AVE AT SPRUCE ST
INTERSECTION 4066

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

186
1107

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NEIL AVE AT VINE ST - 4075

NOTES:

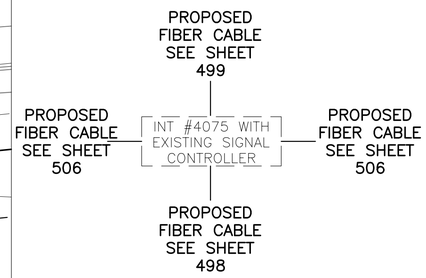
1. SEE SHEETS 498, 499 AND 506 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 189 FOR INTERSECTION QUANTITIES

3. SEE SHEET 921 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

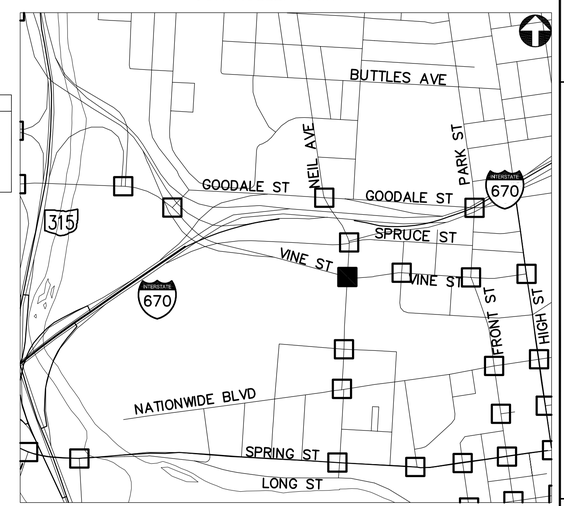
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

INTERSECTION COMMUNICATIONS



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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

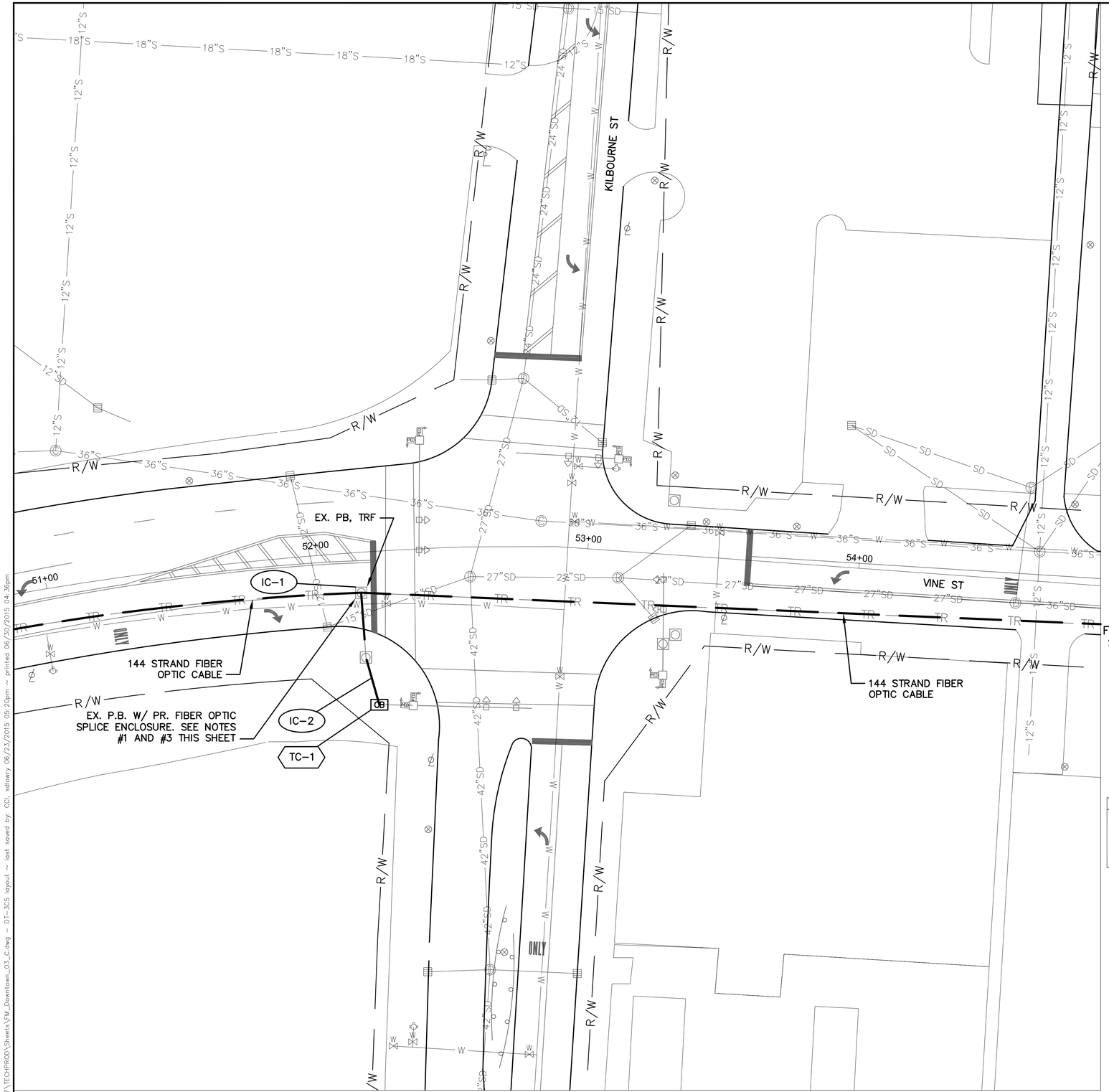
PID NUMBER 13034

NEIL AVE AT VINE ST
INTERSECTION 4075

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

187
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_Downtown_03_C.dwg ~ DT-3C4 layout ~ last saved by: COI, sdlowry 06/23/2015 05:20pm ~ printed 06/30/2015 04:36pm



INTERSECTION COMMUNICATIONS

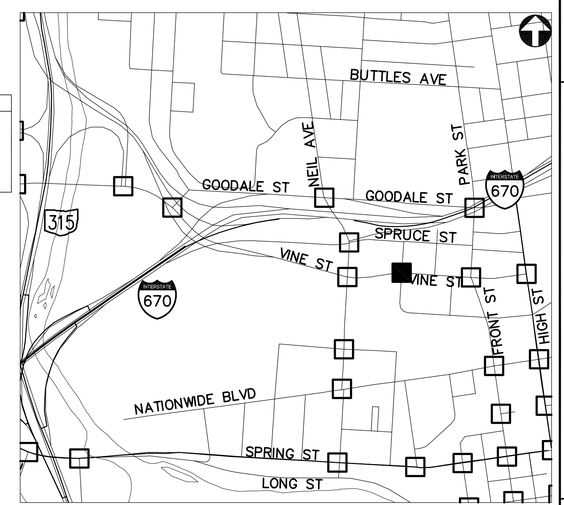
PROPOSED FIBER CABLE SEE SHEET 506 — INT #0112 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 507

NOTES:

1. SEE SHEETS 506 AND 507 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 189 FOR INTERSECTION QUANTITIES
3. SEE SHEET 864 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

KILBOURNE ST AT VINE ST- 0112

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

KILBOURNE ST AT VINE ST
INTERSECTION 0112

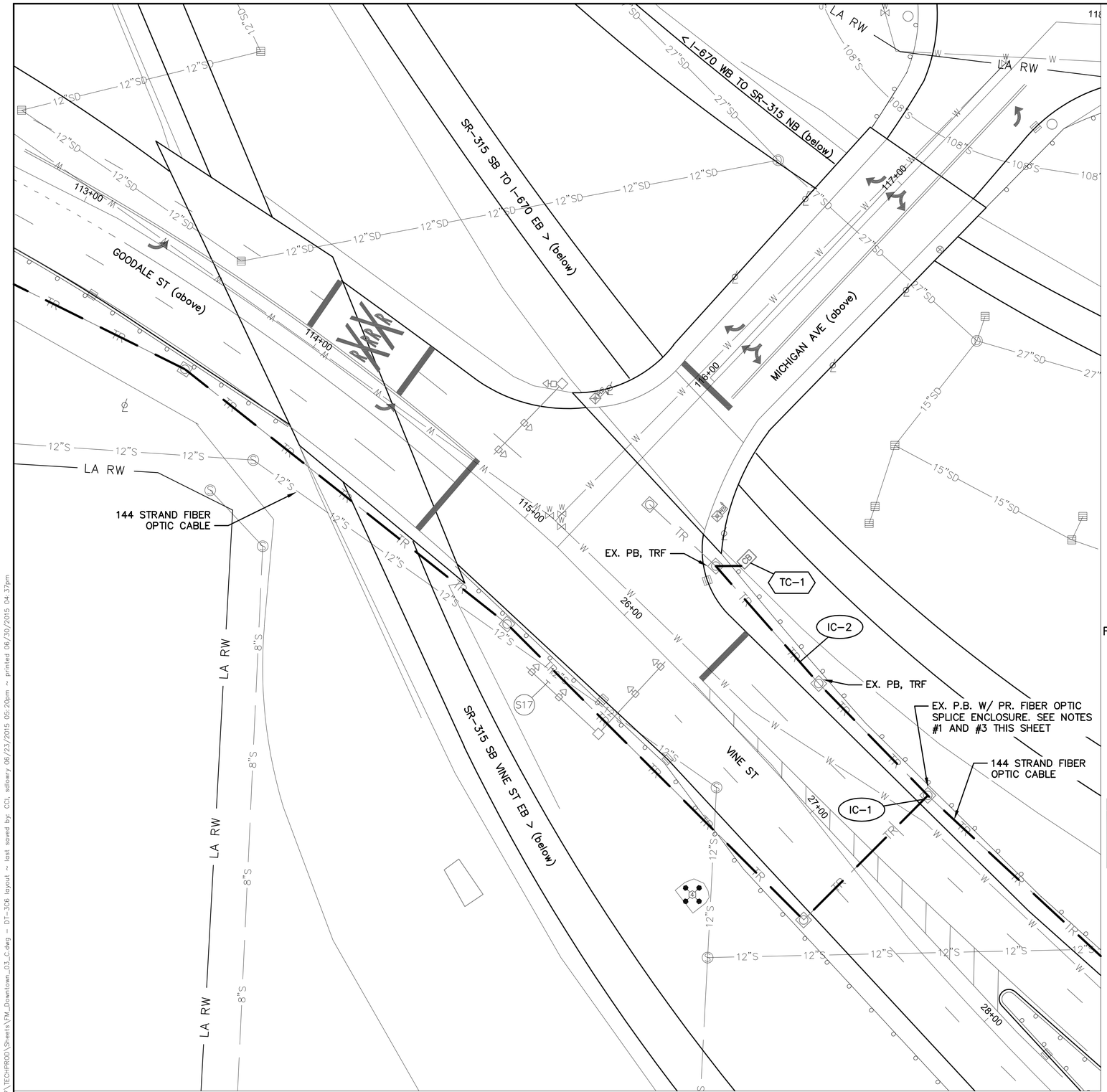
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

188
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	632	633	633	633	633	804	804	804	804												
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.; CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 48 TERMINATION										
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH												
INTERSECTION 0099: NATIONWIDE BLVD. AT NEIL AVE.																									
184	IC-1	18+37, 03' RT									75														
184	IC-2	18+37, 03' RT	18+57, 78' RT								90														
184	TC-1	18+57, 78' RT				3	1	1					1												
184	CTV-1	19+11, 32' LT			1																				
184	PULL BOX SLACK										10														
INTERSECTION 0113: BROADBELT LN. AT NEIL AVE.																									
185	IC-1	22+73, 14' RT								75															
185	IC-2	22+73, 14' RT	22+90, 84' RT							82															
185	TC-1	22+90, 84' RT				2	1	1				1													
INTERSECTION 4066: NEIL AVE. AT SPRUCE ST.																									
186	IC-1	35+39, 18' RT								75															
186	IC-2	35+39, 18' RT	35+43, 39' RT							41															
186	IC-3	35+43, 39' RT								35															
186	IC-4	35+43, 39' RT	34+23, 55' LT	208						208															
186	IC-5	34+23, 55' LT								35															
186	IC-6	34+23, 55' LT	34+07, 59' LT							28															
186	TC-1	34+07, 59' LT				2	1	1				1													
INTERSECTION 4075: NEIL AVE. AT VINE ST.																									
187	IC-1	31+95, 62' LT									75														
187	IC-2	31+95, 62' LT	30+69, 67' LT								173														
187	TC-1	30+69, 67' LT				4	1	1					1												
187	CTV-1	30+63, 62' LT			1																				
187	PULL BOX SLACK										20														
INTERSECTION 0112: KILBOURNE ST. AT VINE ST.																									
188	IC-1	52+16, 15' RT								75															
188	IC-2	52+16, 15' RT	52+20, 56' RT							52															
188	TC-1	52+20, 56' RT				2	1		1			1													
188	PULL BOX SLACK									10															



INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 505 — INT #4246 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 505

NOTES:

1. SEE SHEET 505 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 983 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

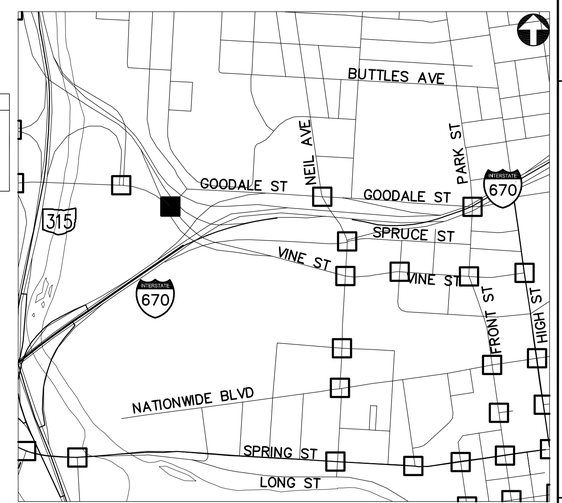
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

GOODALE ST AT VINE ST & MICHIGAN AVE - 4246

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

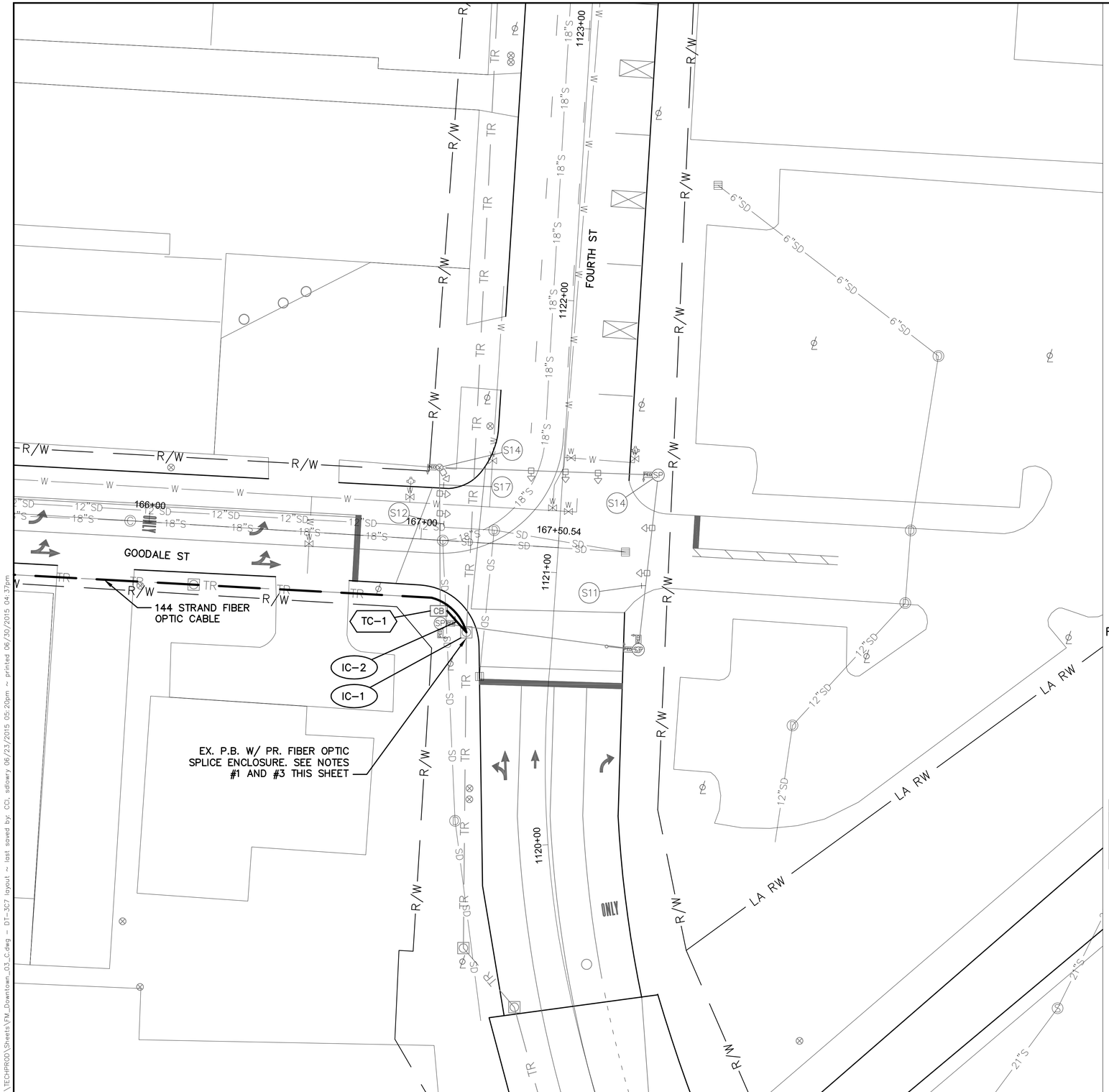
PID NUMBER 13034

GOODALE ST AT VINE ST & MICHIGAN AVE INTERSECTION 4246

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

190
1107

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PROPOSED FIBER CABLE SEE SHEET 483

INT #3168 WITH EXISTING SIGNAL CONTROLLER

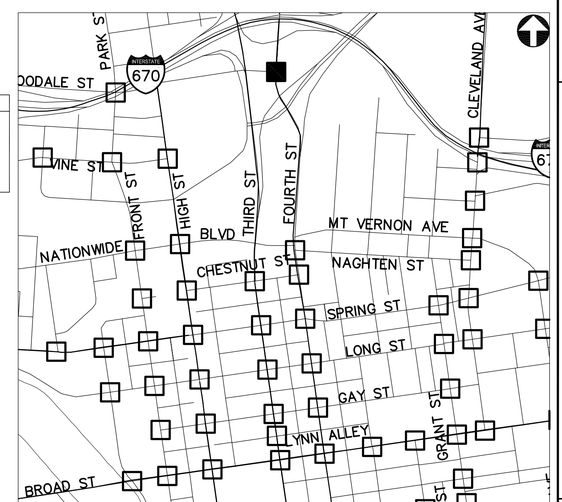
UNDERGROUND UTILITIES
TWO WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

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

INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 483 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 898 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN



KEY PLAN
NOT TO SCALE

FOURTH ST AT GOODALE ST - 3168

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

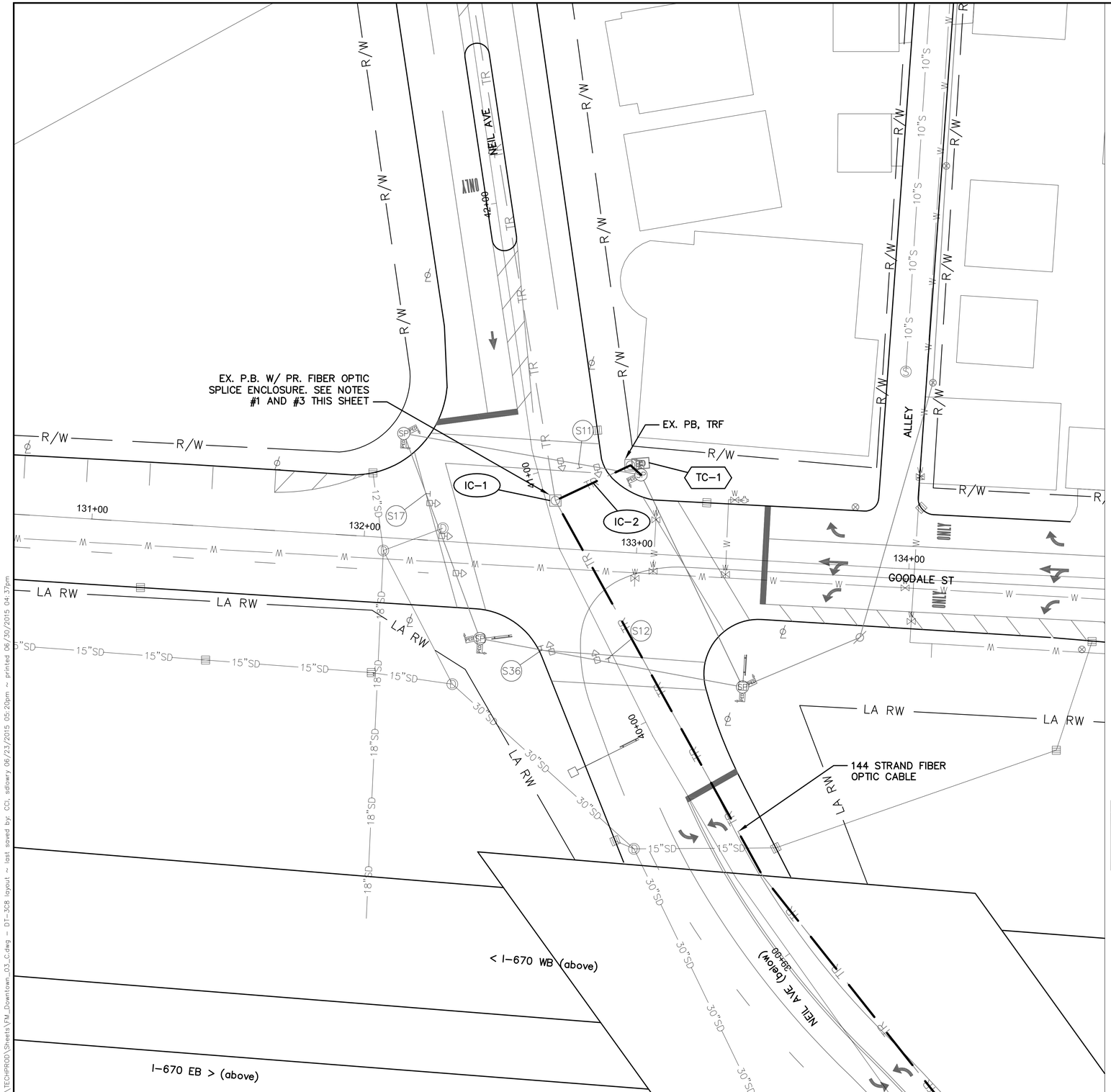
PID NUMBER 13034

FOURTH ST AT GOODALE ST
INTERSECTION 3168

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

191
1107

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GOODALE ST AT NEIL ST - 4068

INTERSECTION COMMUNICATIONS

INT #4068 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 499

NOTES:

1. SEE SHEET 499 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 918 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

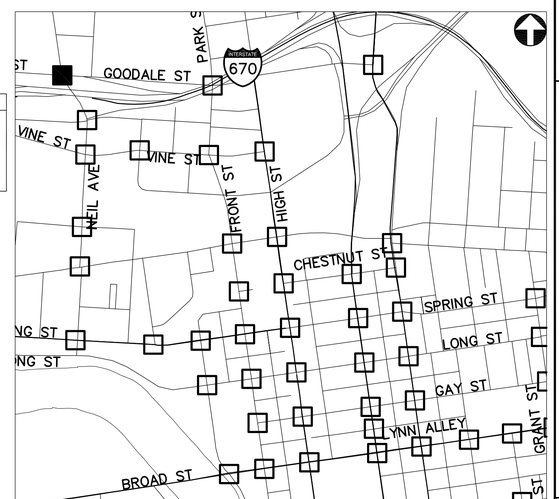
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

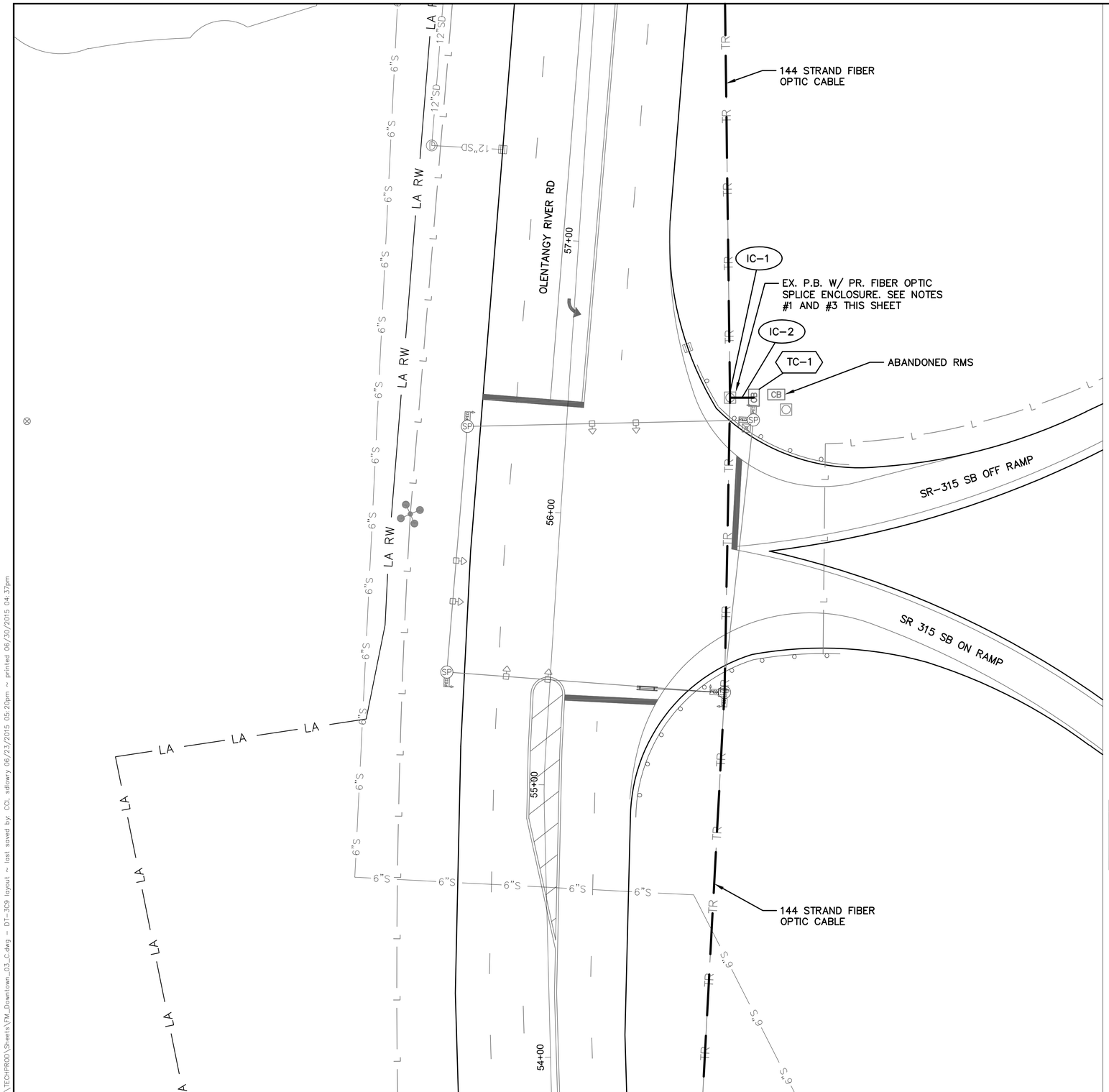
PID NUMBER 13034

GOODALE ST AT NEIL ST
INTERSECTION 4068

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

192
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 503

INT #4085 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 503

NOTES:

1. SEE SHEET 503 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 922 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

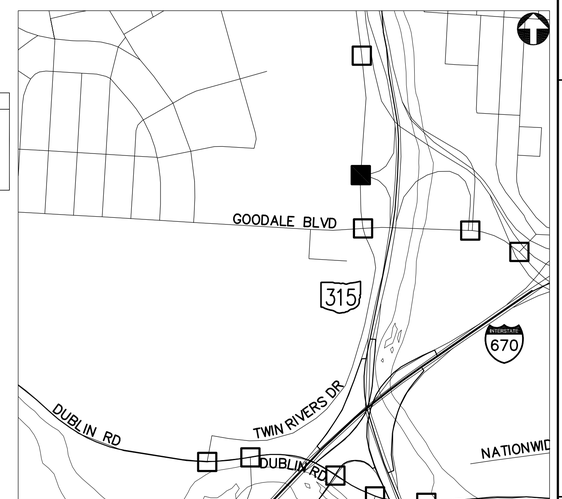
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

OLENTANGY RIVER RD AT SR-315 SB RAMPS - 4085

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

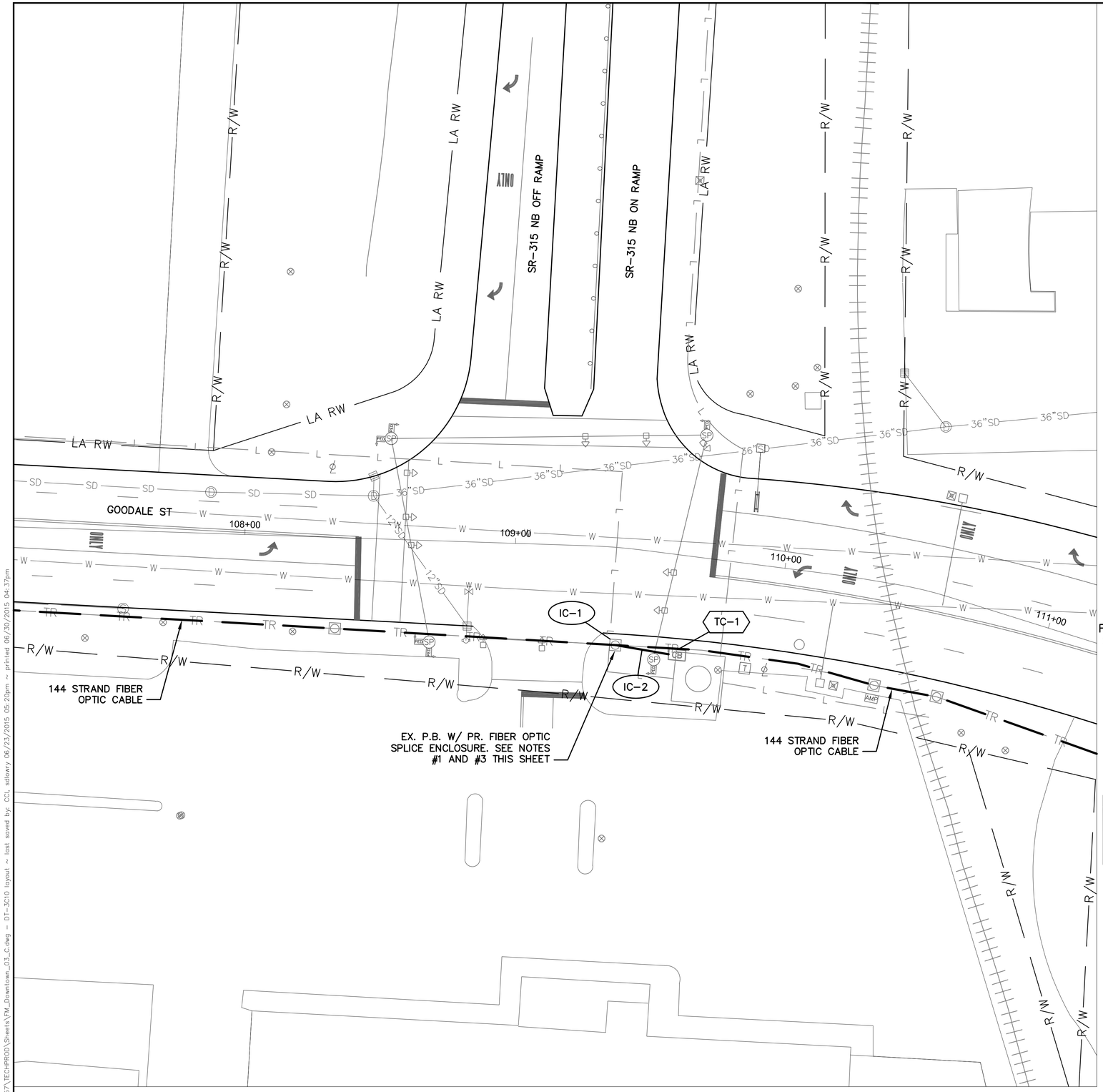
PID NUMBER 13034

OLENTANGY RIVER RD AT SR-315 SB RAMPS INTERSECTION 4085

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

193
1107

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GOODALE ST AT SR-315 NB RAMPS - 4070

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 505 — INT #4070 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 505

NOTES:

1. SEE SHEET 505 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 919 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

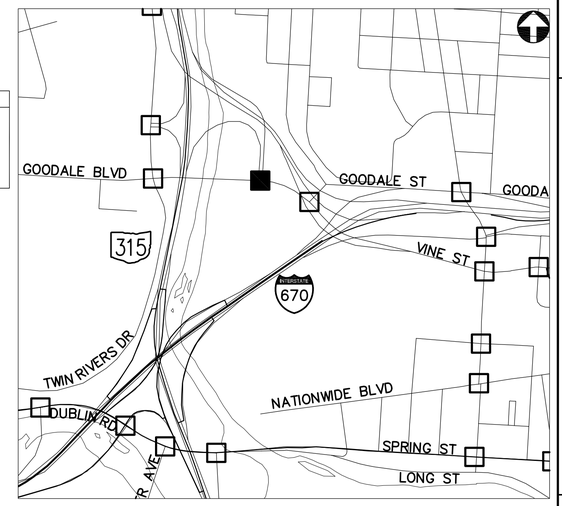
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

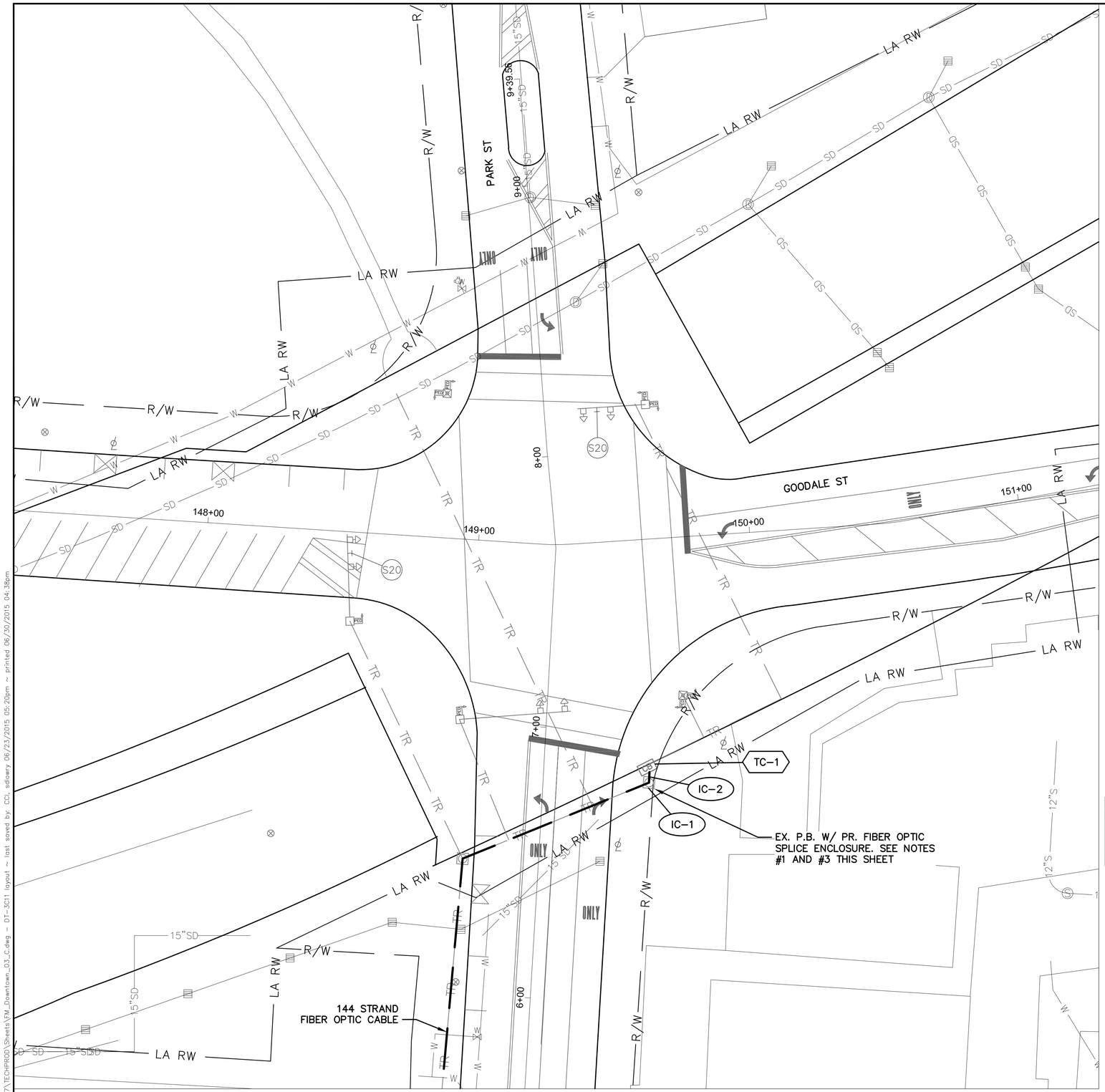
PID NUMBER 13034

GOODALE ST AT SR-315 NB RAMPS
INTERSECTION 4070

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

194
1107

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GOODALE ST AT PARK ST - 4067

INTERSECTION COMMUNICATIONS

INT #4067 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 507

NOTES:

1. SEE SHEET 507 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 196 FOR INTERSECTION QUANTITIES
3. SEE SHEET 917 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

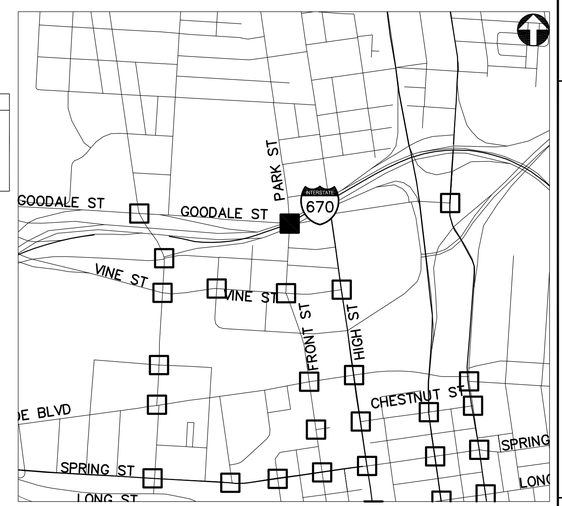
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GOODALE ST AT PARK ST
INTERSECTION 4067

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

195
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE FT	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION EACH
INTERSECTION 4246: GOODALE ST. AT VINE ST. & MICHIGAN AVE.								
190	IC-1	27+22, 38' LT					75	
190	IC-2	27+22, 38' LT	26+17, 47' LT				137	
190	TC-1	26+17, 47' LT		2	1	1		1
190	PULL BOX SLACK						20	
INTERSECTION 3168: FOURTH ST. AT GOODALE ST.								
191	IC-1	1120+76, 32' LT					75	
191	IC-2	1120+76, 32' LT	1120+79, 41' LT				20	
191	TC-1	1120+79, 41' LT		2	1	1		1
INTERSECTION 4068: GOODALE ST. AT NEIL AVE.								
192	IC-1	40+88, 03' RT					75	
192	IC-2	40+88, 03' RT	40+89, 36' RT				46	
192	TC-1	40+89, 36' RT		2	1	1		1
192	PULL BOX SLACK						10	
INTERSECTION 4085: OLENTANGY RIVER RD. AT SR-315 SB RAMPS								
193	IC-1	56+46, 59' RT					75	
193	IC-2	56+46, 59' RT	56+47, 68' RT				19	
193	TC-1	56+47, 68' RT		2	1	1		1
INTERSECTION 4070: GOODALE ST. AT SR-315 NB RAMPS								
194	IC-1	109+40, 36' RT					75	
194	IC-2	109+40, 36' RT	109+65, 37' RT				30	
194	TC-1	109+65, 37' RT		2	1	1		1
INTERSECTION 4067: GOODALE ST. AT PARK ST.								
195	IC-1	6+82, 39' RT					75	
195	IC-2	6+82, 39' RT	6+87, 38' RT				16	
195	TC-1	6+87, 38' RT		1	1	1		1
		SHEET TOTAL		11	6	6	748	6

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 4246, 3168, 4068, 4085, 4070 AND 4067

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

196
1107

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144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

EX. PB, TRF

OLENTANGY RIVER RD

GOODALE ST

RAILROAD (above)

TWIN RIVERS DRIVE

IC-1

IC-2

TC-1

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 503

INT #4071 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 505

NOTES:

1. SEE SHEETS 503 AND 505 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 920 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

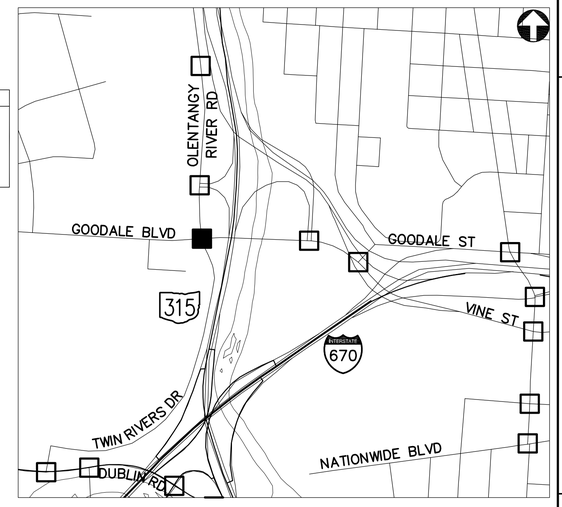
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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

GOODALE ST AT OLENTANGY RIVER RD AND TWIN RIVERS DR - 4071

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

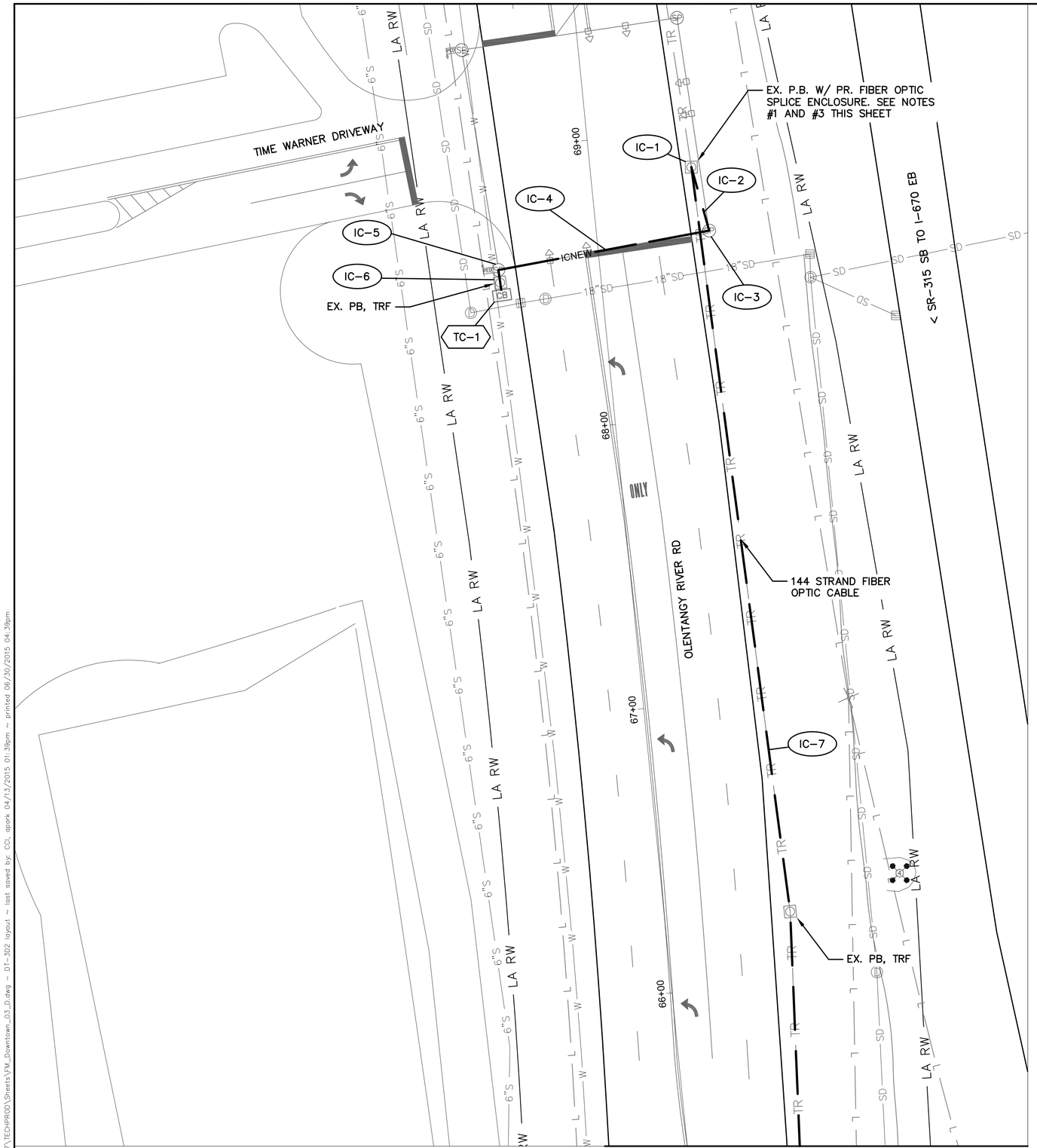
PID NUMBER 13034

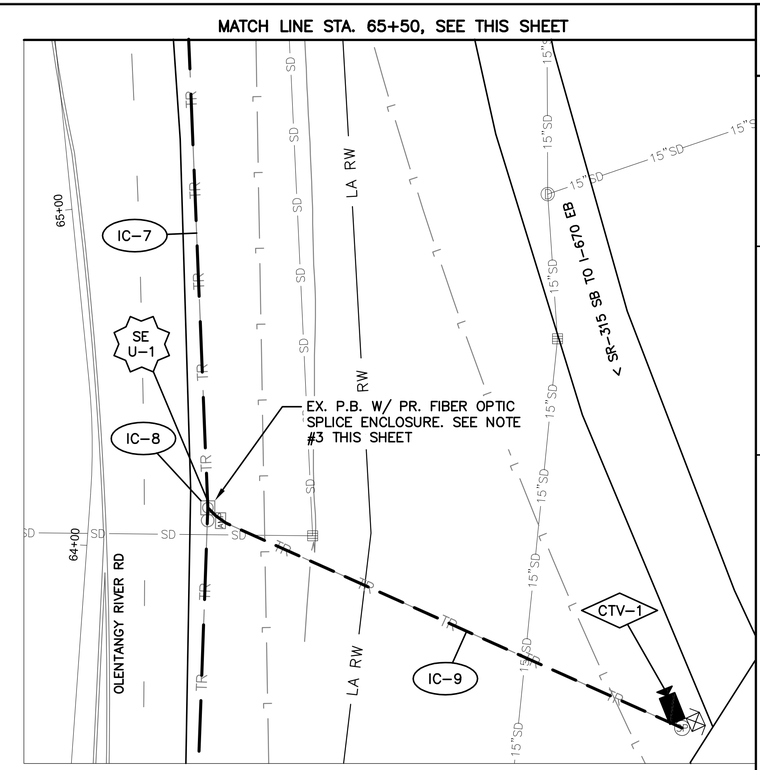
GOODALE ST AT OLENTANGY RIVER RD AND TWIN RIVERS DR INTERSECTION 4071

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

197
1107

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INTERSECTION COMMUNICATIONS

INT #4254 WITH EXISTING SIGNAL CONTROLLER

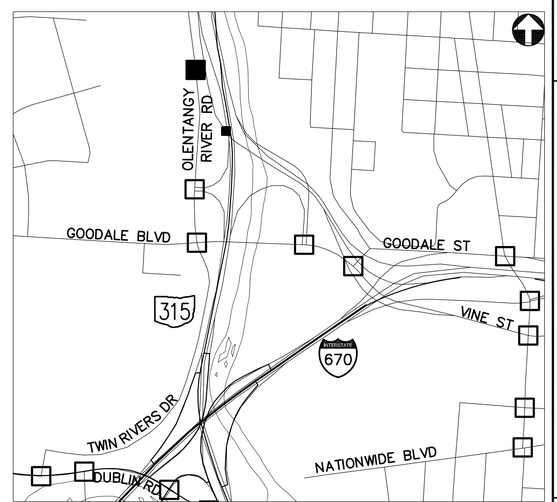
PROPOSED FIBER CABLE SEE SHEET 503

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND
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- WATER
- POWER
- LIGHTING

NOTES:

1. SEE SHEET 503 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 986 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.



KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

OLENTANGY RIVER RD AT GOWDY FIELD DR AND TIME WARNER DR
INTERSECTION 4254

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

198
1107

2762 DR. E

OLENTANGY RIVER RD AT GOWDY FIELD DR AND TIME WARNER DR - 4254

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INSTALL ADJACENT TO EX. AERIAL DoT SPLICE ENCLOSURES
(1) EA – SPLICE ENCLOSURE
(1) 75' – 24 STRAND FOC DROP
(2) 75' – 144 STRAND FOC SLACK
SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FOC OVERLASHED TO EX. DoT CABLE

144 STRAND FOC IN EX. CONDUIT

INSTALL
6' – MESSENGER WIRE
6' – 144 STRAND FOC
6' – 24 STRAND FOC DROP

INSTALL
(1) – 2" RISER
10' – 3" SCH. 80 CONDUIT
45' – 144 STRAND FOC
45' – 24 STRAND FOC DROP

INSTALL IN EX. CONDUIT
16' – 24 STRAND FOC DROP

OVERLASH TO
EXISTING DoT AERIAL SPAN
151' – 144 STRAND FOC
151' – 24 STRAND FOC DROP

LONG ST
JEFFERSON AVE
LA RW
R/W
ICOVL
TC–1
S11
S12
248+00
249+00
250+00
251+00

JEFFERSON AVE AT LONG ST - 0030

INTERSECTION COMMUNICATIONS

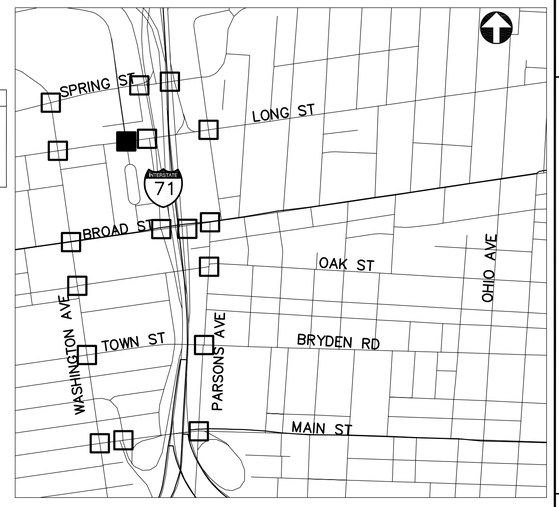
PROPOSED FIBER CABLE SEE SHEET 515 — INT #0030 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 518

NOTES:

1. SEE SHEETS 515 AND 518 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 789 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

JEFFERSON AVE AT LONG ST INTERSECTION 0030

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

199
1107

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PROPOSED FIBER CABLE SEE SHEET 518

INT #3052 WITH EXISTING SIGNAL CONTROLLER

INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 518 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 880 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. PROPOSED CONDUIT AND FIBER OPTIC CABLE WORK ON THIS SHEET WILL BE PERFORMED DURING ODOT PID 77369

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CITY OF COLUMBUS UTILITY LEGEND
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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

HAMILTON AVE AT LONG ST - 3052

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HAMILTON AVE AT LONG ST
INTERSECTION 3052

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

200
1107

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144 STRAND FIBER OPTIC CABLE

EX. PB, TRF

TC-1

IC-2

IC-1

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

LONG ST

WILLOW ST

LA RW

R/W

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 518

PROPOSED FIBER CABLE SEE SHEET 518

INT #0118 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 518

NOTES:

1. SEE SHEET 518 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 204 FOR INTERSECTION QUANTITIES

3. SEE SHEET 990 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. ~~PROPOSED CCTV LOCATION WILL BE DETERMINED BASED ON THE CONSTRUCTION OF FRA-71-17.76/FRA-670-4.19 PID 77369~~

5. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

6. PROPOSED CONDUIT ~~AND FIBER OPTIC~~ CABLE WORK ON THIS SHEET WILL BE PERFORMED DURING ODOT PID 77369

UNDERGROUND UTILITIES

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

LESTER DR AT LONG ST - 0118

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

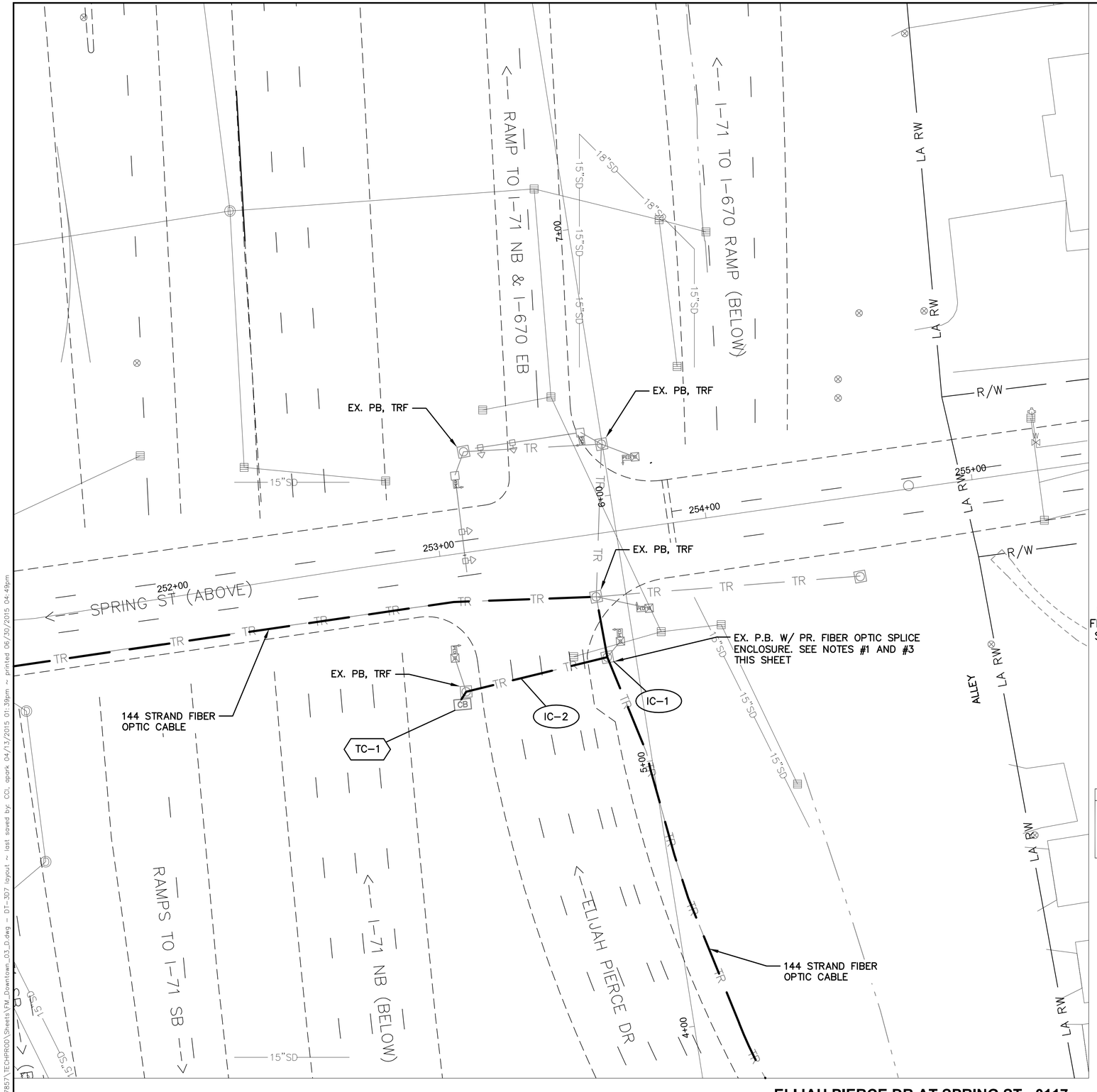
PID NUMBER 13034

LESTER DR AT LONG ST
INTERSECTION 0118

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

201
1107

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ELIJAH PIERCE DR AT SPRING ST - 0117

PROPOSED FIBER CABLE SEE SHEET 517

INT #0117 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 517

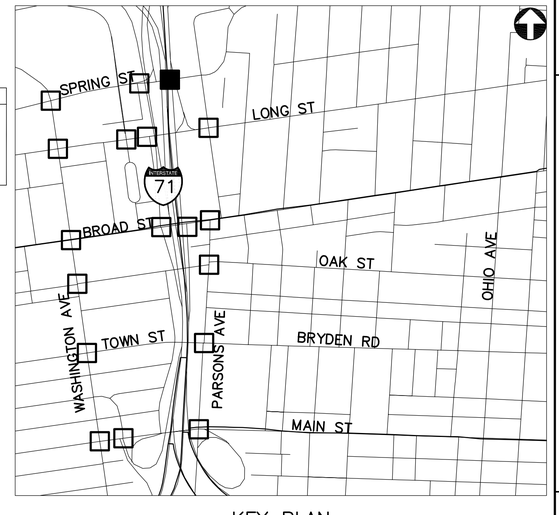
INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 517 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 989 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. ~~PROPOSED CCTV LOCATION WILL BE DETERMINED BASED ON THE CONSTRUCTION OF FRA-71-17.76/FRA-670-4.19 PID 77369~~
5. ~~PROPOSED CONDUIT AND FIBER OPTIC CABLE~~ WORK ON THIS SHEET WILL BE PERFORMED DURING ODOT PID 77369

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

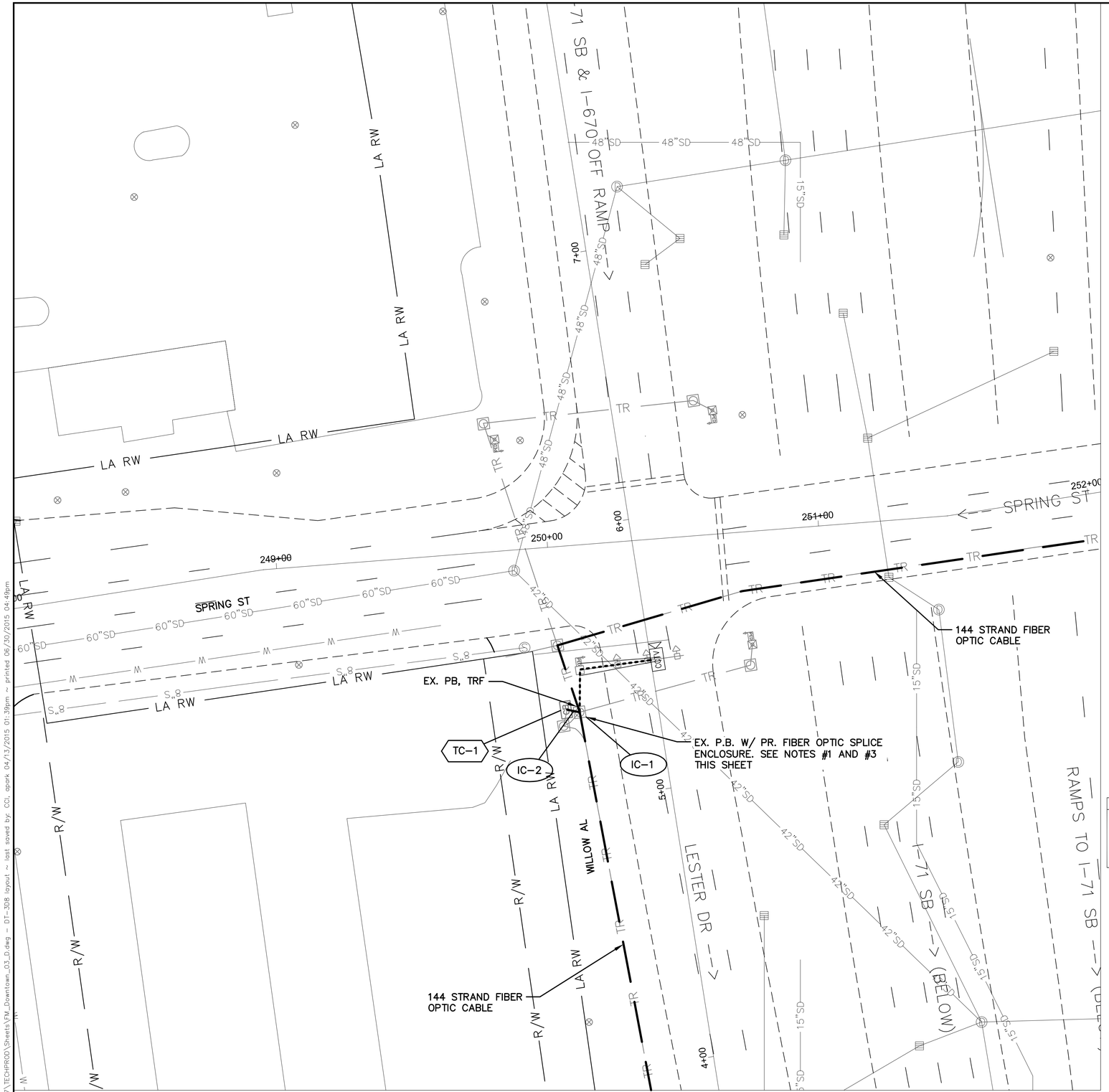
PID NUMBER 13034

ELIJAH PIERCE AT SPRING ST
INTERSECTION 0117

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

202
1107

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LESTER DR AT SPRING ST - 0116

NOTES:

1. SEE SHEET 517 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 204 FOR INTERSECTION QUANTITIES
3. SEE SHEET 991 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. PROPOSED CCTV LOCATION WILL BE DETERMINED BASED ON THE CONSTRUCTION OF FRA-71-17.76/FRA-670-4.19 PID 77369
5. PROPOSED CONDUIT AND FIBER OPTIC CABLE WORK ON THIS SHEET WILL BE PERFORMED DURING ODOT PID 77369

INTERSECTON COMMUNICATIONS

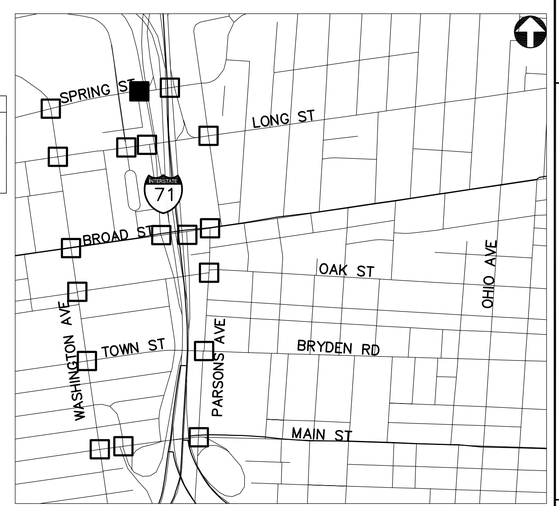
INT #0116 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 517

PROPOSED FIBER CABLE SEE SHEET 517

UNDERGROUND UTILITIES
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- SEWER
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- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

LESTER DR AT SPRING ST
INTERSECTION 0116

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

203
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, AS PER PLAN (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)	804 SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN (EACH)	FUSION SPLICE, AS PER PLAN *	633 CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER (EACH)							
INT. 4071: GOODALE ST. AT OLENTANGY RIVER RD. & TWIN RIVERS DR.																										
197	IC-1	50+62, 45' RT										75														
197	IC-2	50+62, 45' RT	50+61, 52' LT									107														
197	TC-1	50+61, 52' LT						2	1	1				1												
197	PULL BOX SLACK											10														
INT. 4254: OLENTANGY RIVER RD. AT GOWDY FIELD DR. & TIME WARNER DR.																										
198	IC-1	68+87, 35' RT										75														
198	IC-2	68+87, 35' RT	68+64, 39' RT									23														
198	IC-3	68+64, 39' RT										35														
198	IC-4	68+64, 39' RT	68+58, 35' LT			75					75	75														
198	IC-5	68+58, 35' LT										35														
198	IC-6	68+58, 35' LT	68+49, 35' LT									19														
198	TC-1	68+49, 35' LT						3	1	1				2												
198	IC-7	68+87, 35' RT	64+14, 35' RT									480														
198	IC-8	64+14, 35' RT										75						1	12							
198	IC-9	64+14, 35' RT	63+59, 180' RT	165								165														
198	CTV-1	63+59, 180' RT			1			1	1					1												
198	PULL BOX SLACK											20														
INTERSECTION 0030: JEFFERSON AVE. AT LONG ST.																										
199	IC-1	249+75, 36' RT										75														
199	IC-2	249+75, 36' RT	249+75, 28' RT									15														
199	TC-1	249+75, 28' RT						2	1	1				1												
INTERSECTION 3052: HAMILTON AVE. AT LONG ST.																										
200	IC-1	257+88, 33' RT										75														
200	IC-2	257+88, 33' RT	257+93, 24' RT									21														
200	TC-1	257+93, 24' RT						2	1					1												
INTERSECTION 0118: LESTER AT LONG ST.																										
201	IC-1	251+73, 33' RT											75													
201	IC-2	251+73, 33' RT	251+70, 60' LT										113													
201	TC-1	251+70, 60' LT						3	1						1											
201	CTV-1	251+70, 33' LT			1																					
201	PULL BOX SLACK												10													
INTERSECTION 0117: ELIJAH PIERCE AT SPRING ST.																										
202	IC-1	253+56, 46' RT										75														
202	IC-2	253+56, 46' RT	253+01, 56' RT									69														
202	TC-1	253+01, 56' RT						2	1					1												
202	CTV-1	253+00, 56' RT					1			1																
202	PULL BOX SLACK											10														
INTERSECTION 0116: LESTER AT SPRING ST.																										
203	IC-1	5+33, 29' LT										75														
203	IC-2	5+33, 29' LT	5+35, 34' LT									15														
203	TC-1	5+35, 34' LT						2	1					1												
INTERSECTION 0119: ELIJAH PIERCE AT LONG ST.																										
518	IC-9	255+82, 31' RT	255+83, 47' RT	21									21													
518	CTV-1	255+83, 47' RT							1	1					1					1						
		SHEET TOTAL		186	2	75	1	17	9	5	75	1624	219	8	2	1	12	1	-	-	-	-	-	-	-	-

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

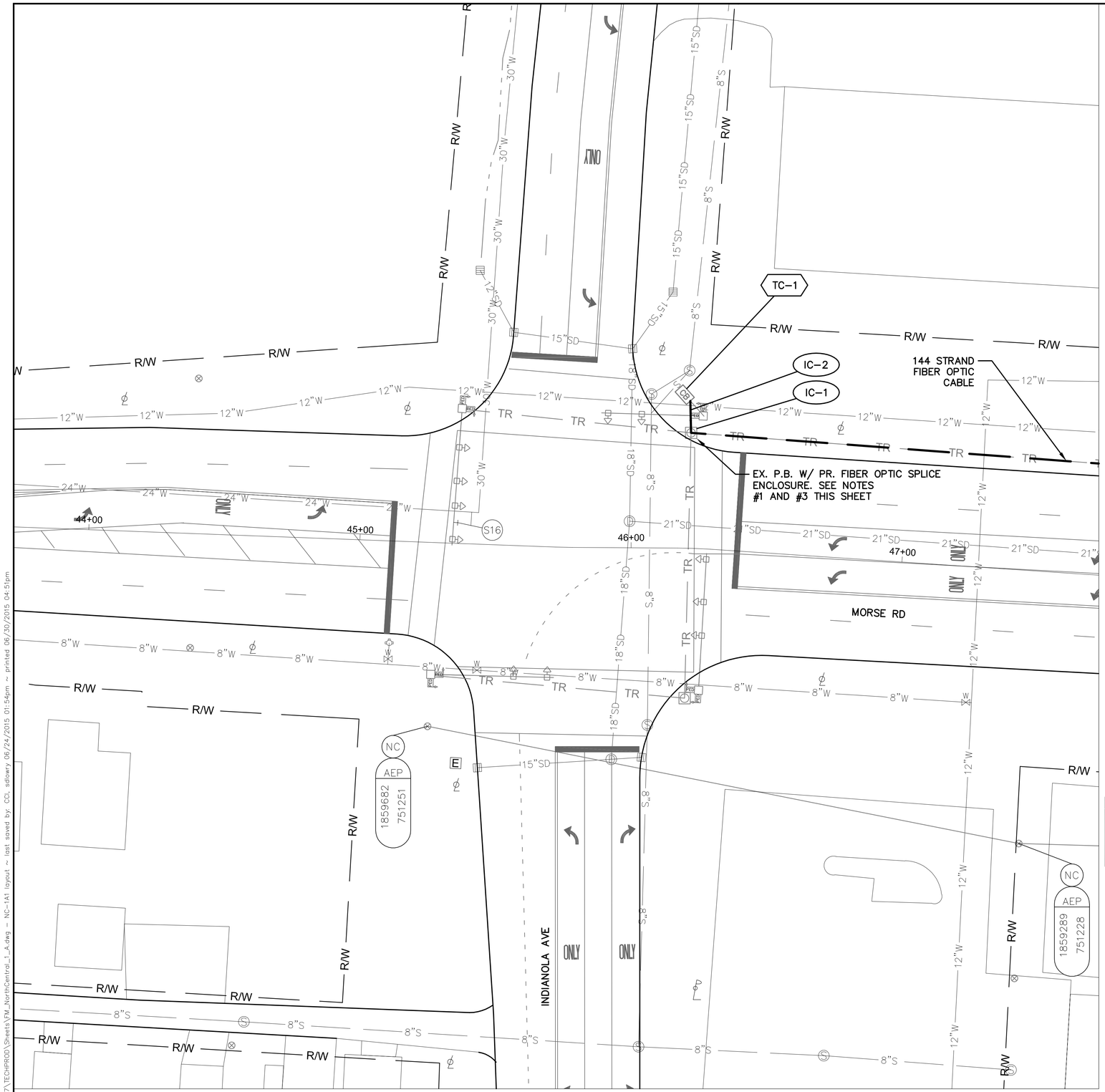
2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 4071, 4254, 0030, 3052, 0118, 0117 AND 0116

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

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INDIANOLA AVE AT MORSE RD- N005

INTERSECTION COMMUNICATIONS

INT #N005 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 537

NOTES:

1. SEE SHEET 537 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 210 FOR INTERSECTION QUANTITIES
3. SEE SHEET 992 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

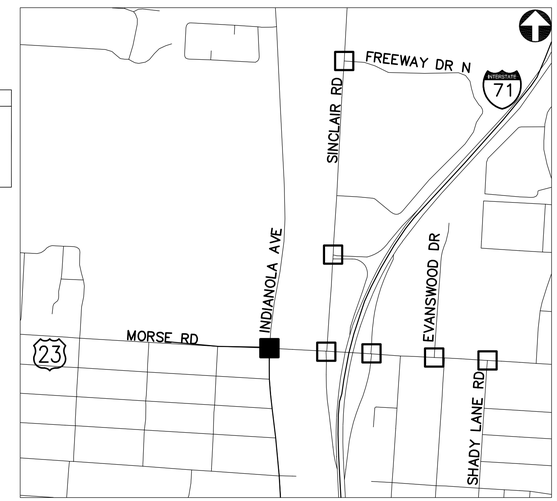
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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

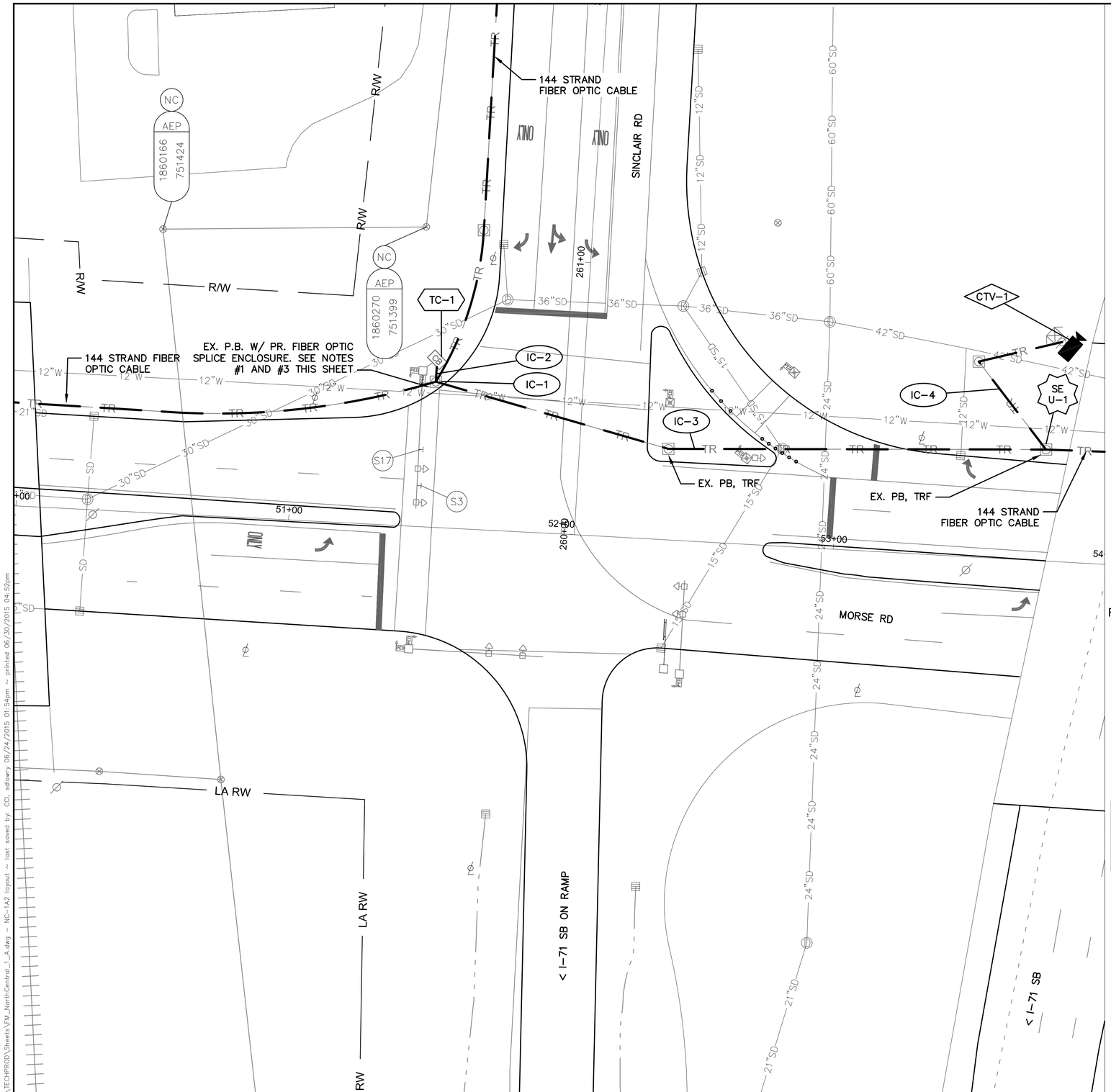
PID NUMBER 13034

INDIANOLA AVE AT MORSE RD
INTERSECTION N005

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

205
1107

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MORSE RD AT SINCLAIR RD - N007

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 535

PROPOSED FIBER CABLE SEE SHEET 537

INT #N007 WITH EXISTING SIGNAL CONTROLLER

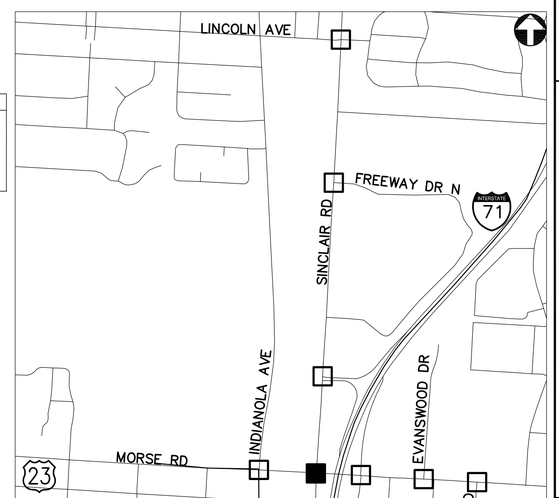
PROPOSED FIBER CABLE SEE SHEET 537

NOTES:

1. SEE SHEETS 535 AND 537 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 210 FOR INTERSECTION QUANTITIES
3. SEE SHEET 994 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MORSE RD AT SINCLAIR RD INTERSECTION N007

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

206
1107

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I-71 NB >

I-71 NB ON RAMP >

LA RW

DOPW

109177

144 STRAND FIBER OPTIC CABLE

TC-1

IC-2

IC-1

CB

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

ICRPL

R/W

MORSE RD

ONLY

55+00

56+00

57+00

58+00

S12

S11

I-71 NB OFF RAMP >

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 538

INT #N008 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 538

NOTES:

1. SEE SHEET 538 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 210 FOR INTERSECTION QUANTITIES

3. SEE SHEET 995 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

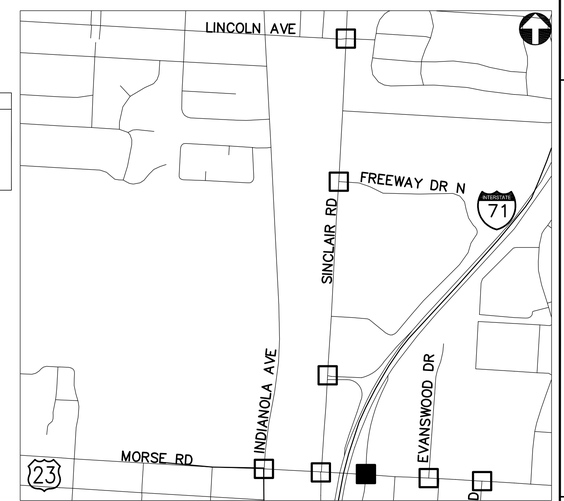
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

I-71 NB AT MORSE RD - N008

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

I-71 NB AT MORSE RD
INTERSECTION N008

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

207
1107

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PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

DOPW(P) OH PRIMARY

144 STRAND FIBER OPTIC CABLE

IC-1

IC-2

TC-1

EVANSWOOD DR

MORSE RD

N FOURTH ST

ONLY

DOPW 109174

DOPW 109173

144 STRAND FIBER OPTIC CABLE

62+00 63+00 64+00 65+00

S3 S21 S16 S43

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 538 — INT #N046 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 538

NOTES:

1. SEE SHEET 538 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 210 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1033 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

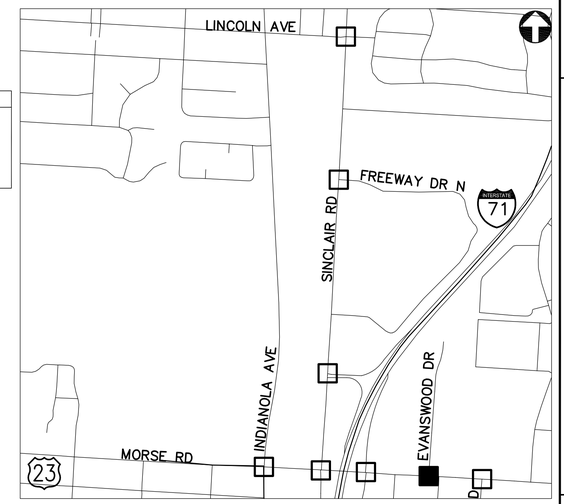
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

EVANSWOOD DR AT MORSE RD - N046

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

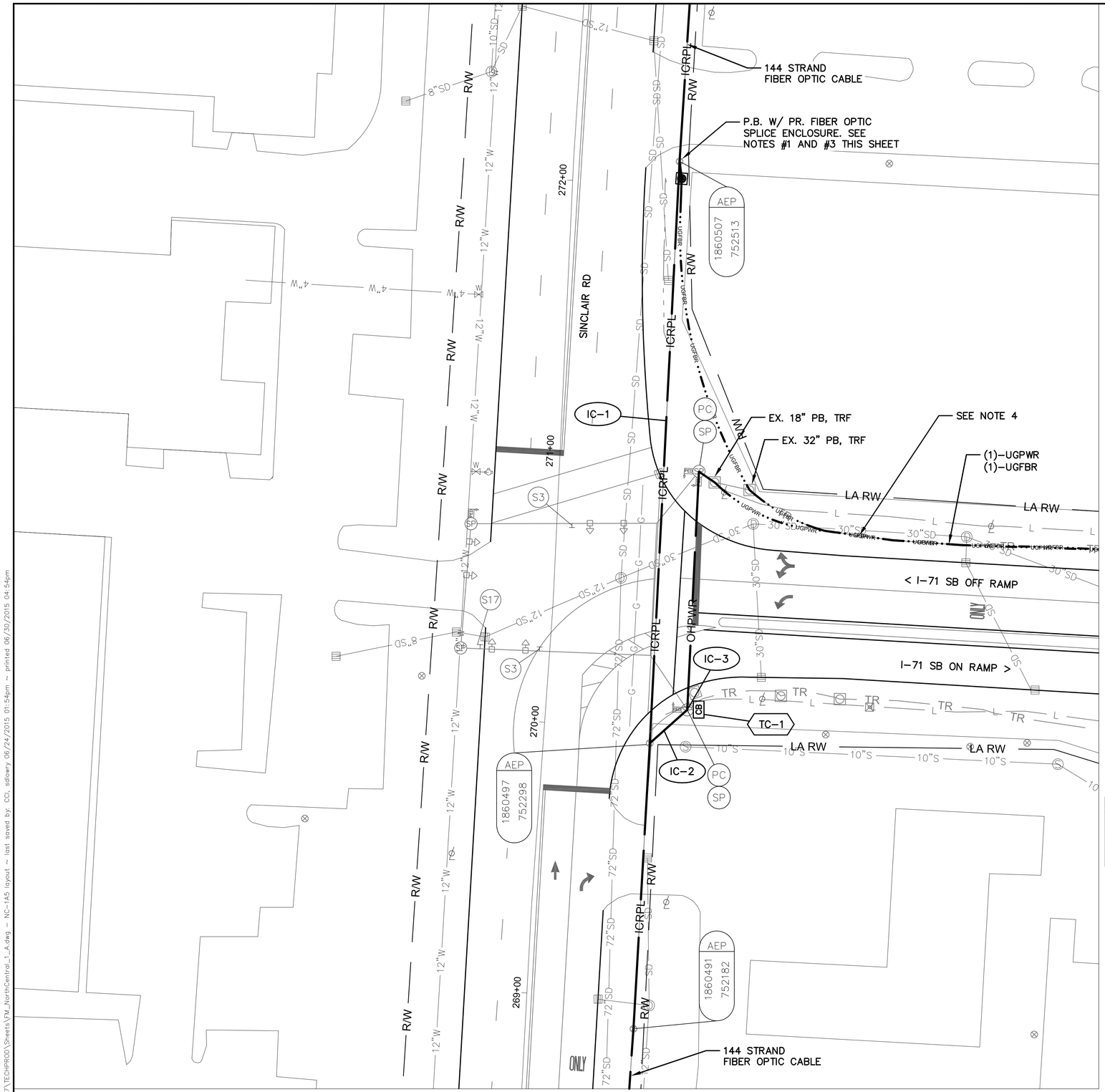
PID NUMBER 13034

EVANSWOOD DR AT MORSE RD
INTERSECTION N046

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

208
1107

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I-71 AT SINCLAIR RD - N006

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 535

INT #N006 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 535

PROPOSED FIBER CABLE SEE SHEET 535

NOTES:

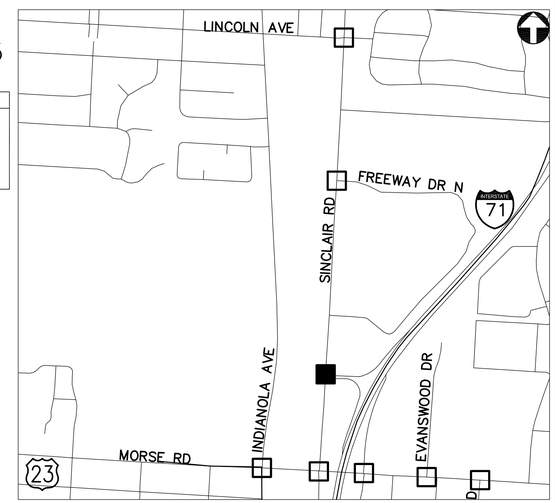
1. SEE SHEET 535 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 210 FOR INTERSECTION QUANTITIES
3. SEE SHEET 993 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 520 FOR COMM NODE DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

I-71 AT SINCLAIR RD
INTERSECTION N006

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

209
1107

2762 DR. E

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	632	632	633	633	633	633	633	804	804	804	804	804										
				CONDUIT: 2" RISER, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPLICE ENCLOSURE: UNDERGROUND, AS PER PLAN	FUSION SPLICE, AS PER PLAN *								
		FROM	TO	EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH										
INTERSECTION N005: INDIANOLA AVE. AT MORSE RD.																										
205	IC-1	46+21, 43' LT										75														
205	IC-2	46+21, 43' LT	46+19, 57' LT									24														
205	TC-1	46+19, 57' LT					1	1	1					1												
INTERSECTION N007: MORSE RD. AT SINCLAIR RD.																										
206	IC-1	51+51, 53' LT										150	75				12									
206	IC-2	51+51, 53' LT	51+51, 61' LT									18	18													
206	TC-1	51+51, 61' LT					4	1	1					1	1											
206	IC-3	51+51, 53' LT	53+76, 41' LT									227														
206	SE U-1	53+76, 41' LT										150				1	12									
206	IC-4	53+76, 41' LT	53+79, 81' LT									82														
206	CTV-1	53+79, 81' LT				1	1	1						1												
206	PULL BOX SLACK											20														
INTERSECTION N008: I-71 NB RAMPS AT MORSE RD.																										
207	IC-1	56+74, 47' LT										75														
207	IC-2	56+74, 47' LT	56+66, 64' LT									29														
207	TC-1	56+66, 64' LT					2	1	1					1												
INTERSECTION N046: EVANSWOOD DR. AT MORSE RD.																										
208	IC-1	63+63, 80' LT		1								110														
208	IC-2	63+63, 80' LT	63+55, 77' LT									19														
208	TC-1	63+55, 77' LT					2	1	1					1												
INTERSECTION N006: I-71 SB OFF RAMP AT SINCLAIR RD.																										
209	IC-1	269+95, 39' RT										75														
209	IC-2	269+95, 39' RT	270+08, 52' RT		19						19	19														
209	IC-3	270+08, 52' RT										35														
209	TC-1	270+08, 52' RT					2	1		1				1												
		SHEET TOTAL		1	19	1	12	6	4	1	19	1108	93	6	1	1	24	-	-	-	-	-	-	-	-	

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N005, N007, N008, N046 AND N006

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

210
1107

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144 STRAND
FIBER OPTIC CABLE

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

IC-1
IC-2
IC-3
TC-1

AEP 1860539 754620
AEP 1860607 754554
AEP 1860531 754454

FREEWAY DRIVE NORTH
SINCLAIR RD

294
293+00
292+00
291+00

R/W
ICRPL
8"S
60"SD
12"W
6"W
10"SD
8"SD
ONLY
RM
PC
SP

FREEWAY DR NORTH AT SINCLAIR RD - N018

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
536

INT #N018 WITH
PROPOSED SIGNAL
CONTROLLER

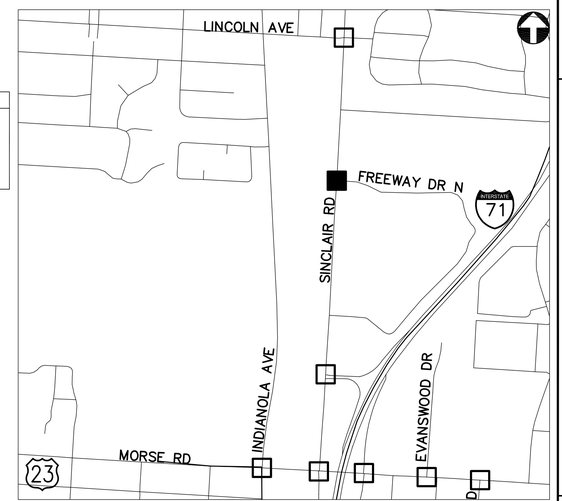
PROPOSED
FIBER CABLE
SEE SHEET
536

NOTES:

1. SEE SHEET 536 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 216 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1005 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

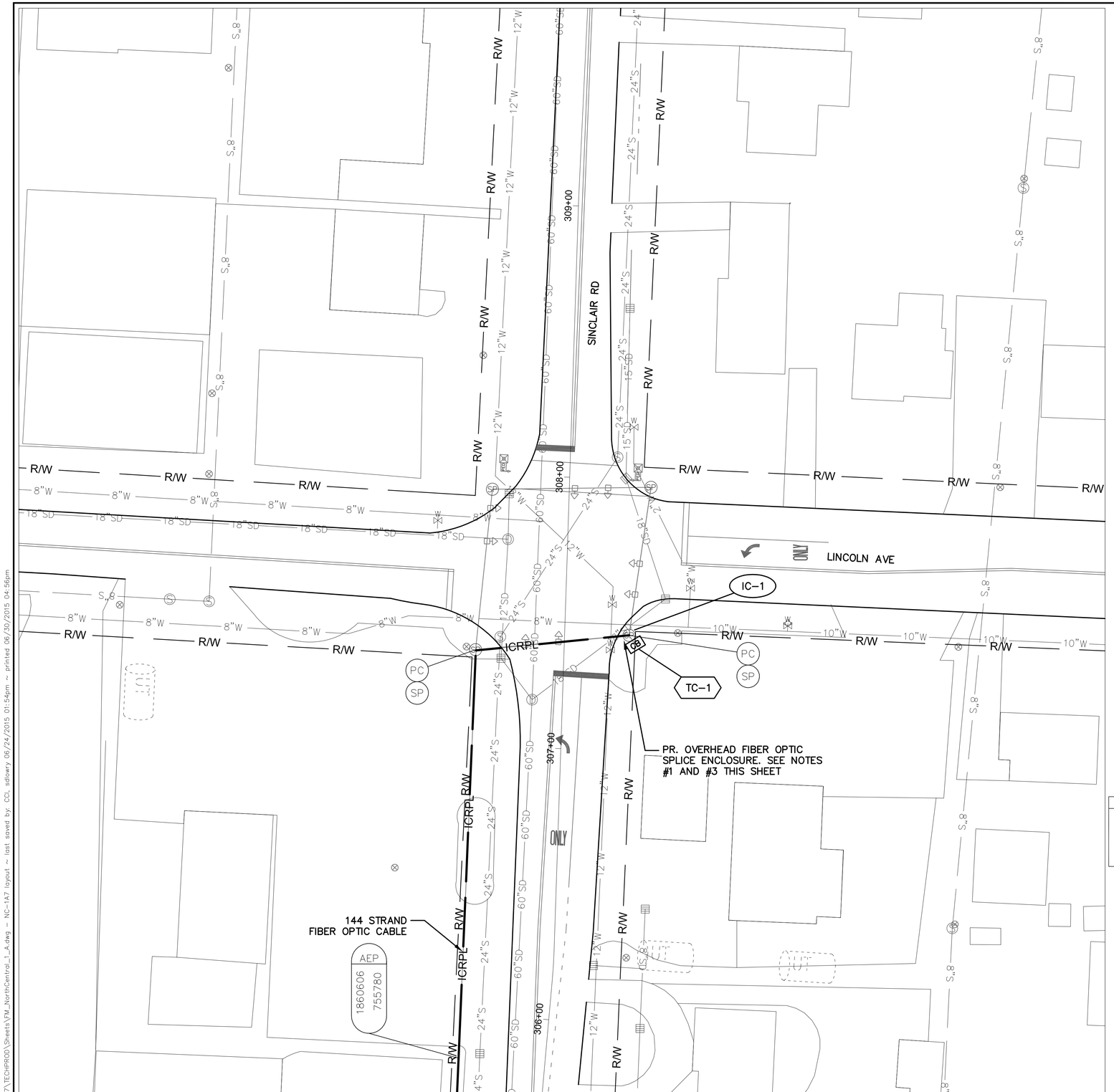
PID NUMBER
13034

FREEWAY DR NORTH AT SINCLAIR RD
INTERSECTION N018

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

211
1107

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LINCOLN AVE AT SINCLAIR RD - N019

INTERSECTION COMMUNICATIONS

INT #N019 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 537

NOTES:

1. SEE SHEET 537 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 216 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1006 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

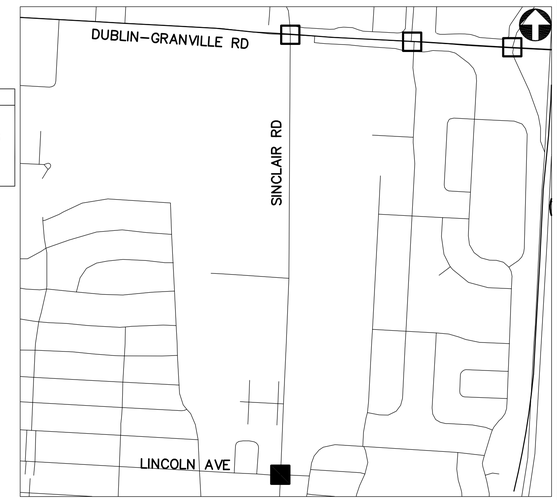
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

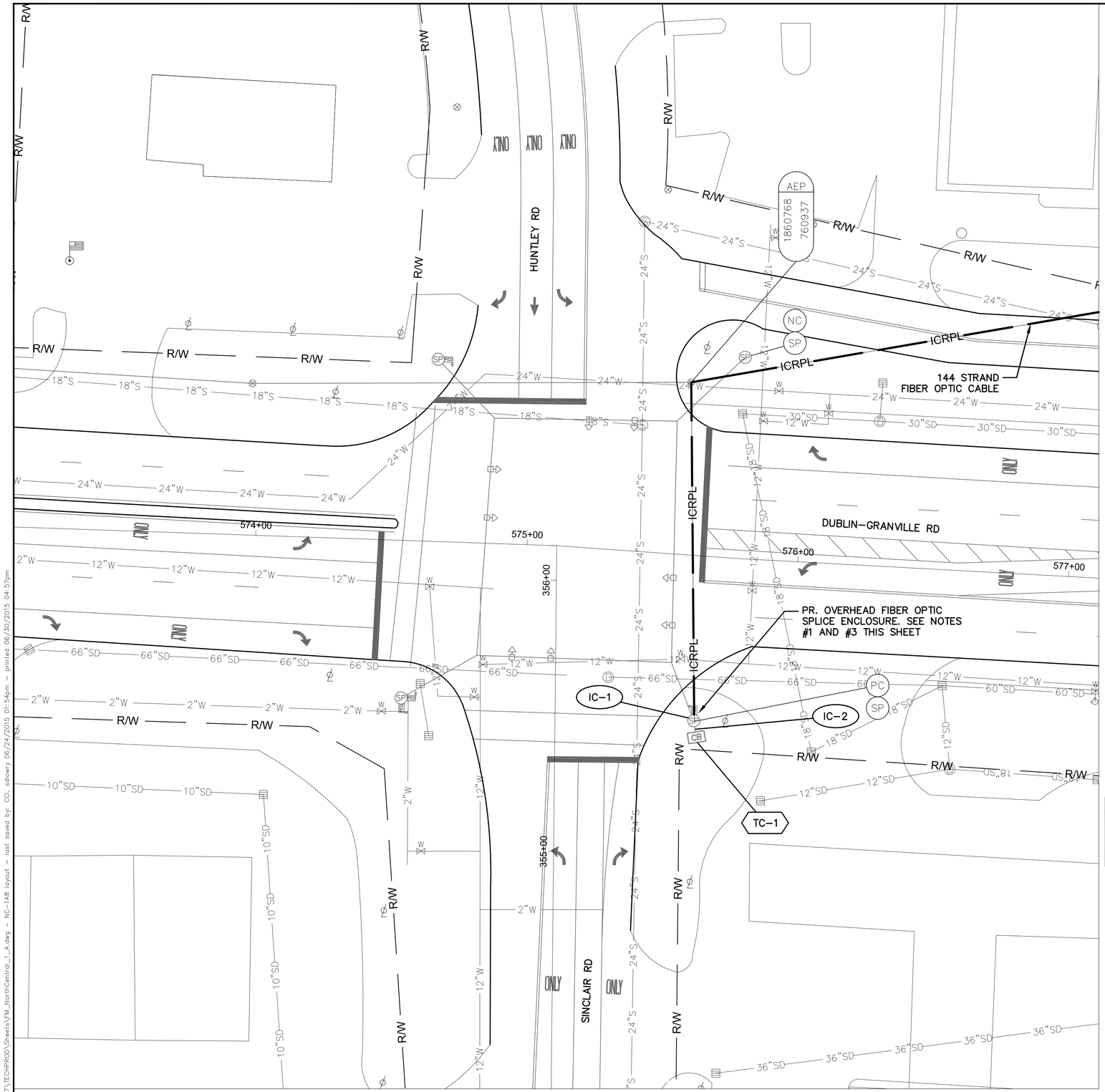
PID NUMBER 13034

LINCOLN AVE AT SINCLAIR RD INTERSECTION N019

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

212
1107

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INTERSECTION COMMUNICATIONS

INT #N026 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 572

NOTES:

1. SEE SHEET 572 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 216 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1013 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

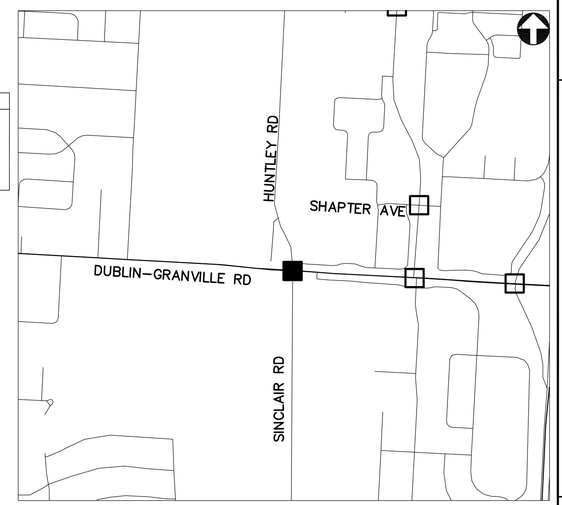
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

DUBLIN-GRANVILLE RD AT HUNTLEY RD AND SINCLAIR RD - N026

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

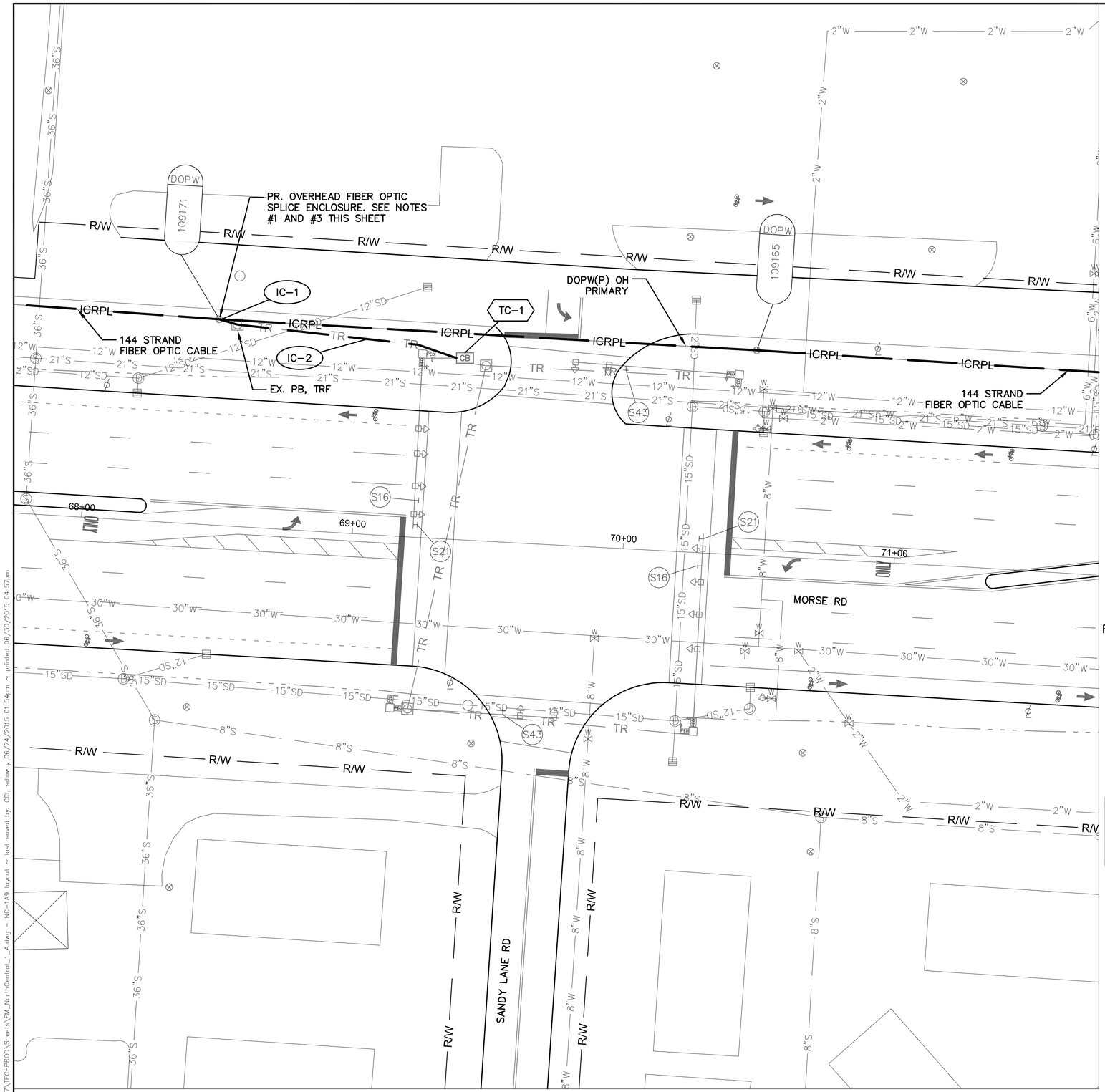
PID NUMBER 13034

DUBLIN–GRANVILLE RD AT HUNTLEY RD AND SINCLAIR RD INTERSECTION N026

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

213
1107

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MORSE RD AT SANDY LANE RD - N009

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 538 — INT #N009 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 538

NOTES:

1. SEE SHEET 538 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 216 FOR INTERSECTION QUANTITIES
3. SEE SHEET 996 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

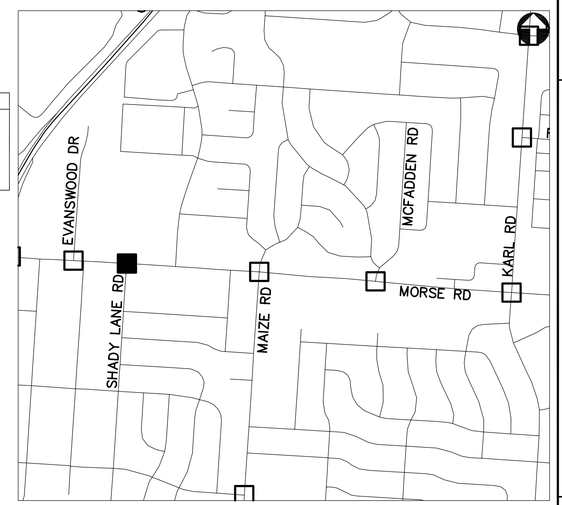
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

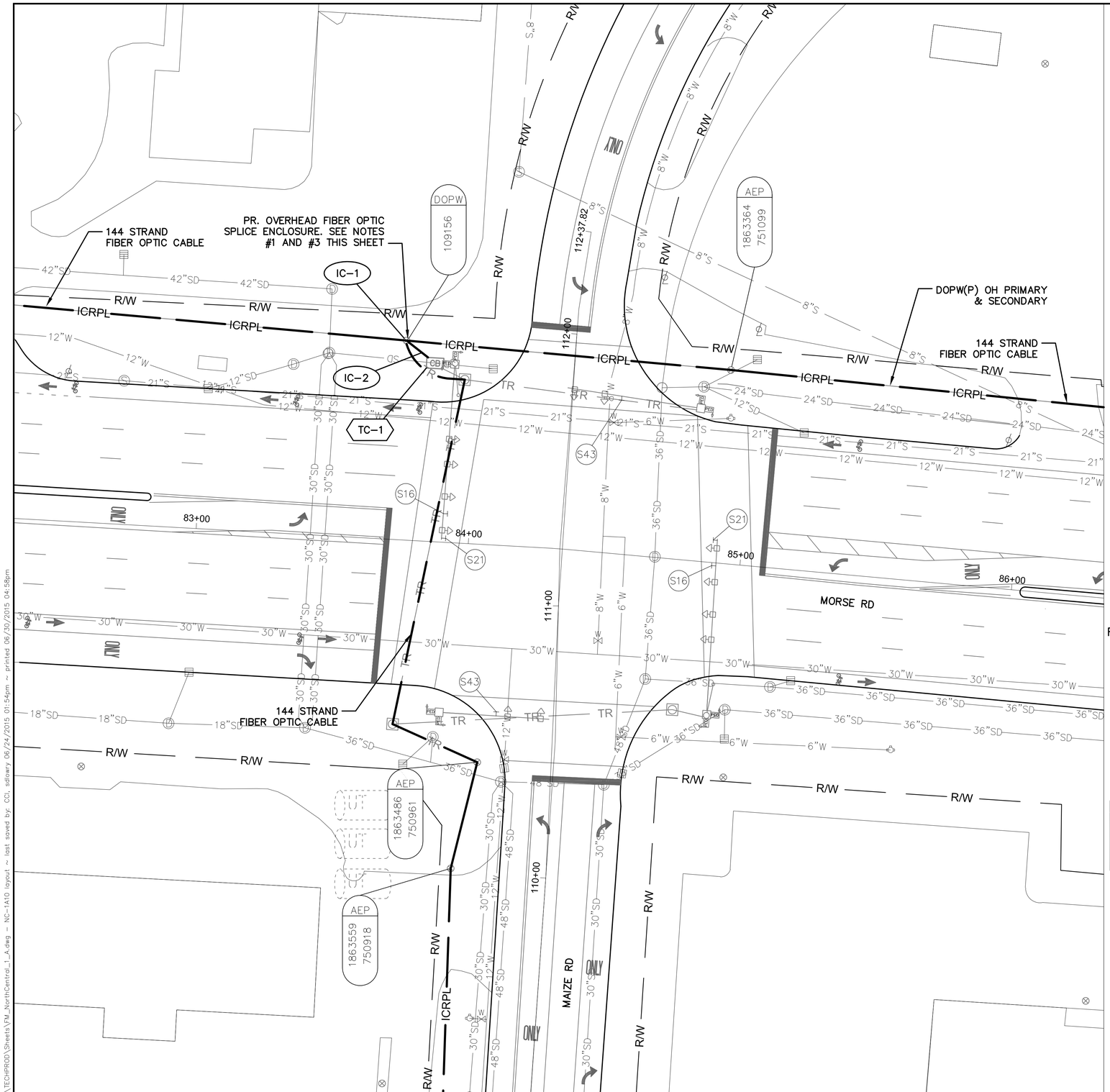
PID NUMBER 13036

MORSE RD AT SANDY LANE RD INTERSECTION N009

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

214
1107

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MAIZE RD AT MORSE RD - N010

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 539 — INT #N010 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 539

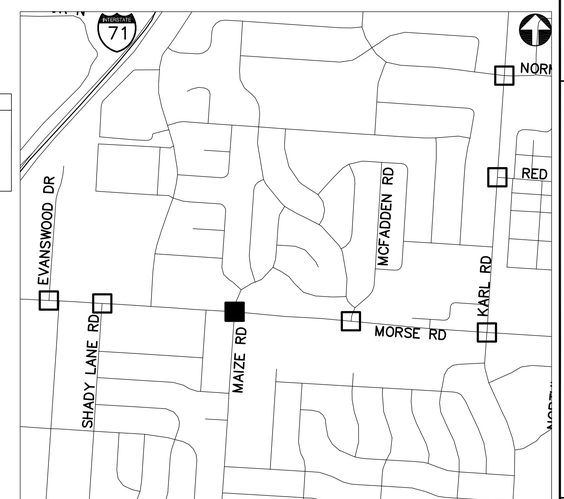
PROPOSED FIBER CABLE SEE SHEET 525

NOTES:

1. SEE SHEETS 525 AND 539 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 216 FOR INTERSECTION QUANTITIES
3. SEE SHEET 997 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MAIZE RD AT MORSE RD
INTERSECTION N010

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

215
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 CONDUIT: 2" RISER, AS PER PLAN (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)
INTERSECTION N018: FREEWAY DR. NORTH AT SINCLAIR RD.														
211	IC-1	293+23, 35' LT									75			
211	IC-2	293+23, 35' LT	292+41, 38' RT		113					113	113			
211	IC-3	292+41, 38' RT		1							35			
211	TC-1	292+41, 38' RT				2	1		1				1	
INTERSECTION N019: LINCOLN AVE. AT SINCLAIR RD.														
212	IC-1	307+43, 24' RT									110			
212	TC-1	307+43, 24' RT				1	1		1				1	
INTERSECTION N026: DUBLIN GRANVILLE RD. AT HUNTLEY RD. & SINCLAIR RD.														
213	IC-1	575+66, 61' RT									110			
213	IC-2	575+66, 61' RT	575+67, 67' RT								16			
213	TC-1	575+67, 67' RT				1	1	1					1	
INTERSECTION N009: MORSE RD. AT SANDY LN.														
214	IC-1	68+46, 76' LT		1							110			
214	IC-2	68+46, 76' LT	69+38, 67' LT								102			
214	TC-1	69+38, 67' LT				2	1	1					1	
214	PULL BOX SLACK										10			
INTERSECTION N010: MAIZE RD. AT MORSE RD.														
215	IC-1	83+73, 73' LT		1								110		
215	IC-2	83+73, 73' LT	83+85, 63' LT									26		
215	TC-1	83+85, 63' LT				4	1	1						1
SHEET TOTAL				3	113	10	5	3	2	113	681	136	4	1

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N018, N019, N026, N009 AND N010

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

216
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_NorthCentral_1_Quan.dwg – NC-1-Q02 layout ~ last saved by: CCL apark 03/26/2015 01:24pm ~ printed 06/30/2015 04:58pm



INTERSECTION COMMUNICATIONS

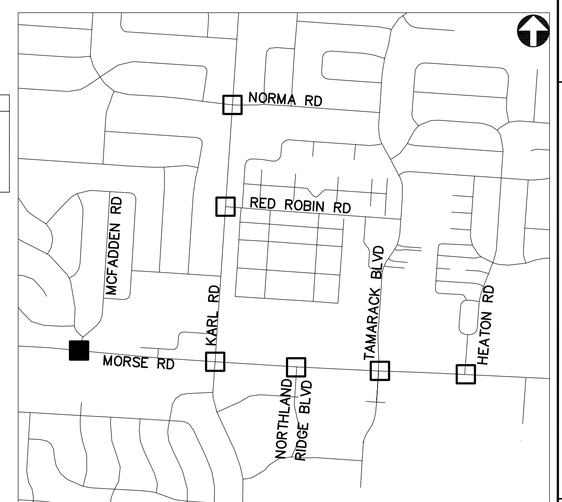
PROPOSED FIBER CABLE SEE SHEET 539 — INT #N011 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 539

NOTES:

1. SEE SHEET 539 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 222 FOR INTERSECTION QUANTITIES
3. SEE SHEET 998 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

ALMONT DR AT MORSE RD- N011

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

ALMONT DR AT MORSE RD INTERSECTION N011

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

217
1107

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KARL RD AT MORSE RD - N012

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 582

PROPOSED FIBER CABLE SEE SHEET 540 — INT #N012 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 540

NOTES:

1. SEE SHEETS 540 AND 582 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 222 FOR INTERSECTION QUANTITIES
3. SEE SHEET 999 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

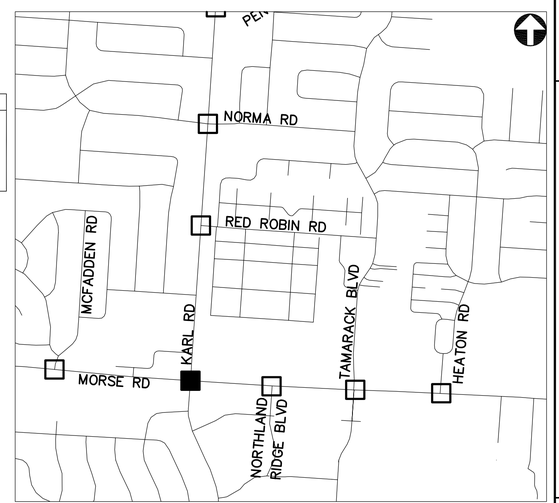
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

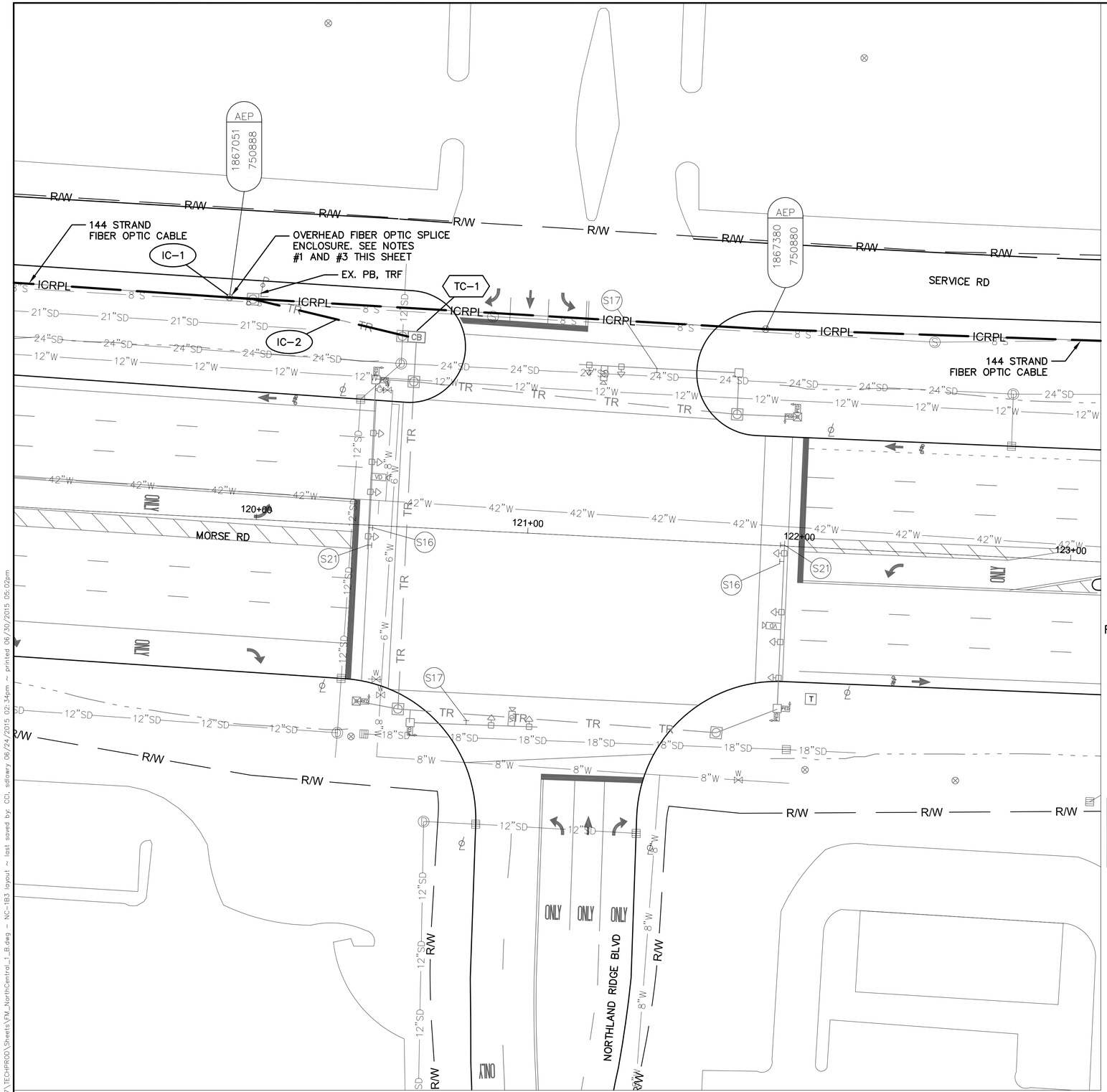
PID NUMBER 13034

KARL RD AT MORSE RD
INTERSECTION N012

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

218
1107

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MORSE RD AT NORTHLAND RIDGE BLVD - N013

INTERSECTION COMMUNICATION

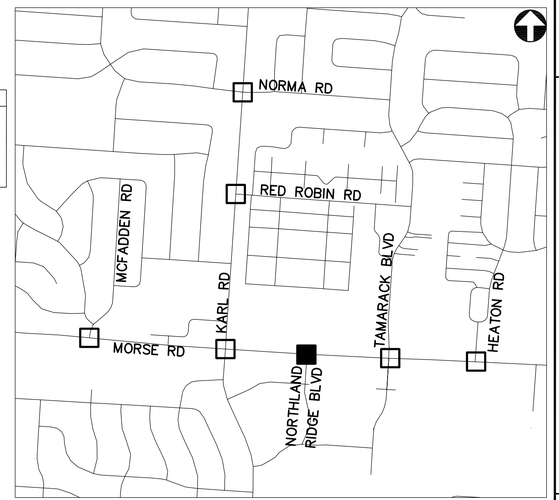
PROPOSED FIBER CABLE SEE SHEET 540 — INT #N013 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 541

NOTES:

1. SEE SHEETS 540 AND 541 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 222 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1000 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

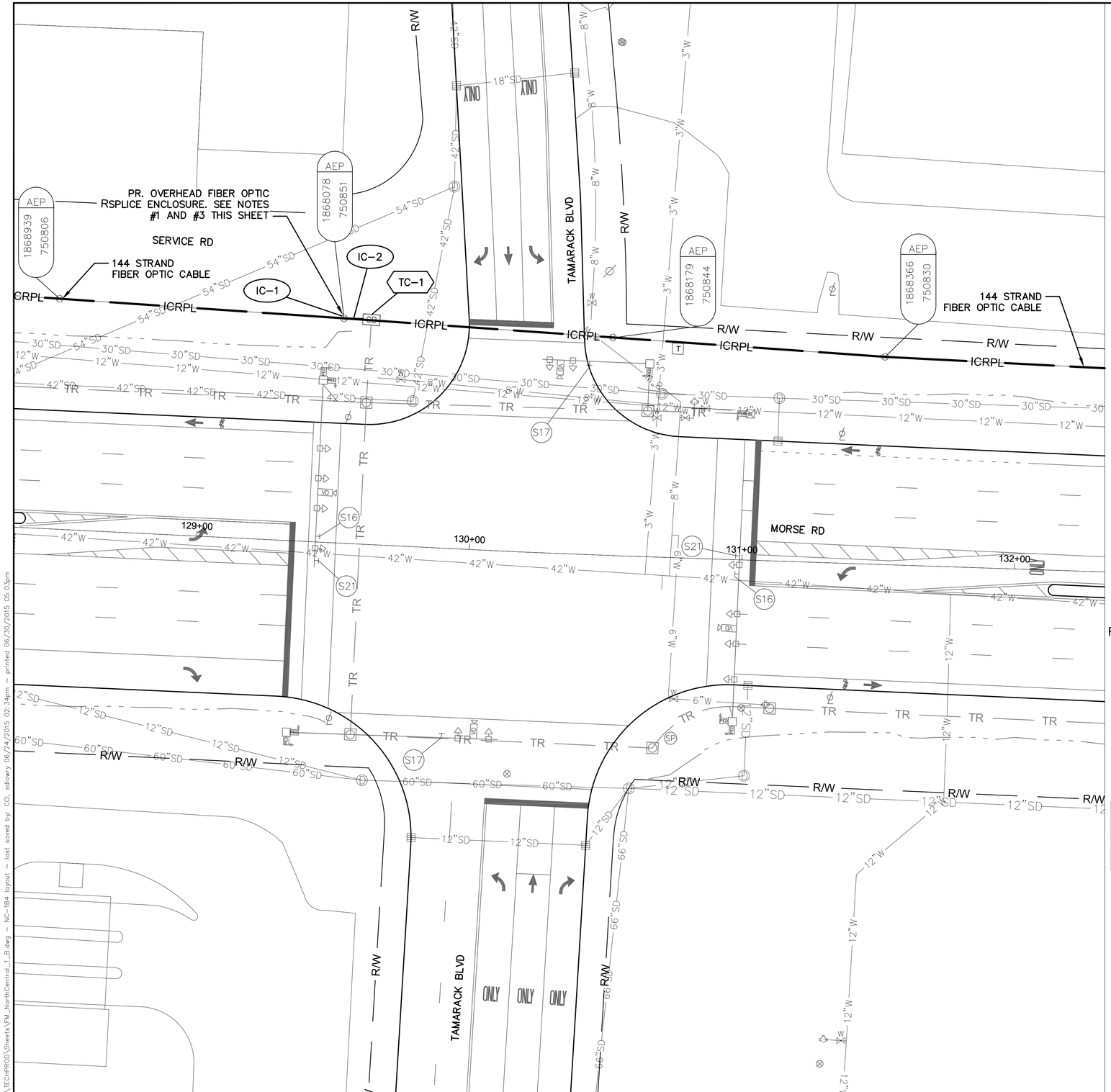
PID NUMBER 13034

MORSE RD AT NORTHLAND RIDGE BLVD
INTERSECTION N013

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

219
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_NorthCentral_1_B.dwg - NC-183 layout ~ last saved by: CCI, sdowry 06/24/2015 02:34pm ~ printed 06/30/2015 05:02pm



MORSE RD AT TAMARACK BLVD - N014

INTERSECTION COMMUNICATIONS

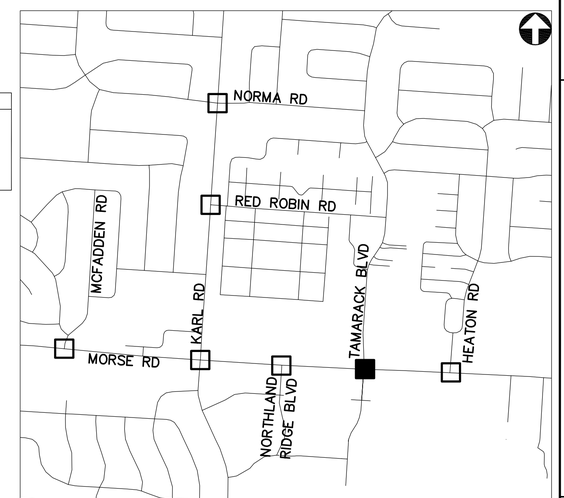
PROPOSED FIBER CABLE SEE SHEET 541 — INT #N014 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 541

NOTES:

1. SEE SHEET 541 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 222 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1001 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MORSE RD AT TAMARACK BLVD
INTERSECTION N014

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

220
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_NorthCentral_1_B.dwg – NC-1B4 layout ~ last saved by: COI, sdlowry 06/24/2015 02:34pm ~ printed 06/30/2015 05:03pm

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

AEP 1868897 750800

AEP 1869054 750795

AEP 1869261 750795

HEATON RD

MORSE RD

SERVICE RD

IC-1

IC-2

TC-1

S16

S17

S21

138+00

139+00

140+00

141+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 541 — INT #N015 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 541

NOTES:

1. SEE SHEET 541 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 222 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1002 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

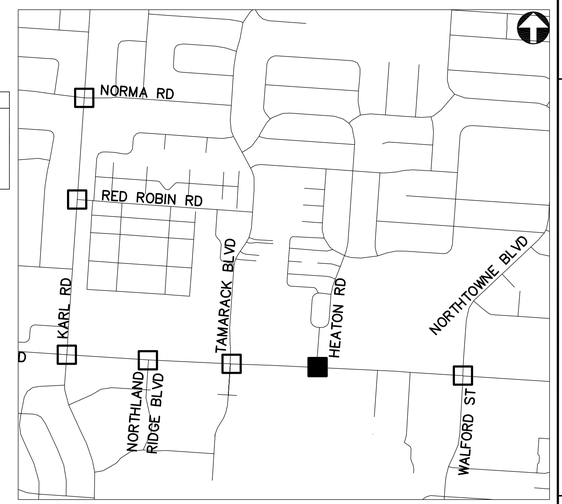
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

HEATON RD AT MORSE RD - N015

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HEATON RD AT MORSE RD INTERSECTION N015

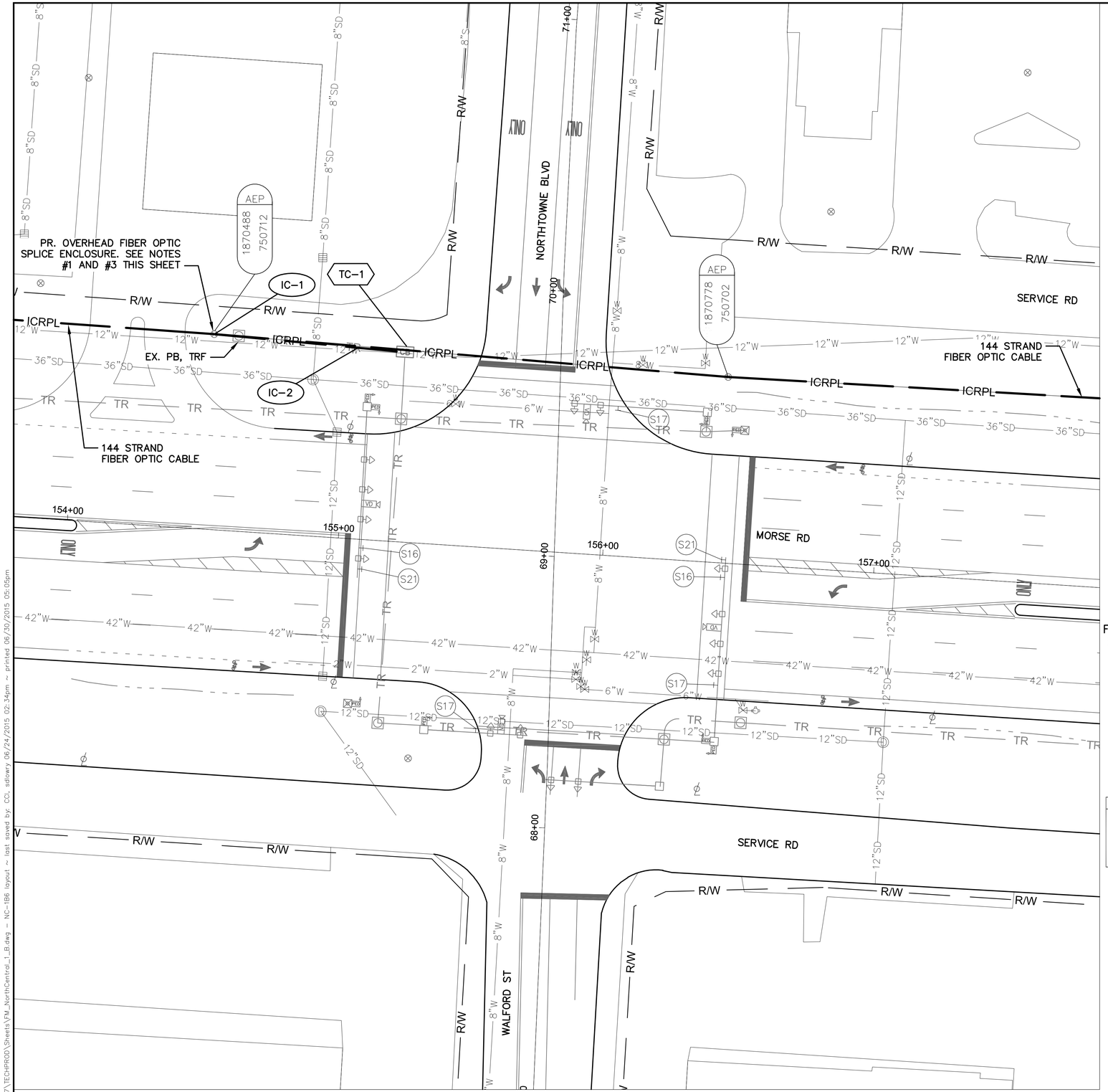
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

221
1107

J:\obs\47857\TECHPROD\Sheets\FM_NorthCentral_1_B.dwg — NC-185 layout — last saved by: CCI, sdlowry 06/24/2015 02:34pm — printed 06/30/2015 05:03pm

ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	632	633	633	633	633	633	633	633	804	804	804	804										
				CONDUIT: 2" RISER, AS PER PLAN	INTERCONNECT CABLE, MISC: RG-6 COAXIAL CABLE	CONTROLLER ITEM, MISC:: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC:: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC:: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC:: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC:: TERMINAL PORT SERVER	CONTROLLER ITEM, MISC:: VIDEO/PTZ DATA-COAX MEDIA CONVERTER	INTERCONNECT, MISC:: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC:: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC:: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC:: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC:: PATCH PANEL ENCLOSURE, 48 TERMINATION									
		FROM	TO	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH										
INTERSECTION N011: ALMONT RD. AT MORSE RD.																										
217	IC-1	96+89, 66' LT		1									110													
217	IC-2	96+89, 66' LT	96+80, 65' LT										24													
217	TC-1	96+80, 64' LT					2		1	1					1											
217	PULL BOX SLACK												10													
INTERSECTION N012: KARL RD. AT MORSE RD.																										
218	IC-1	111+69, 82' LT												75												
218	IC-2	111+69, 82' LT	111+73, 101' LT											29												
218	TC-1	111+73, 101' LT					4		1	1						1										
218	EC-1	111+73, 101' LT	112+73, 88' RT		325																					
218	EC-2	112+73, 88' RT	111+56, 97' RT									162														
218	CTV-1	112+73, 88' RT				1				1	1															
218	CTV-2	111+56, 97' RT				1			1	1	1															
218	PULL BOX SLACK				15							10														
INTERSECTION N013: MORSE RD. AT NORTHLAND RIDGE DR.																										
219	IC-1	119+86, 81' LT		1									110													
219	IC-2	119+86, 81' LT	120+56, 70' LT										81													
219	TC-1	120+56, 70' LT					2	1	1						1											
219	PULL BOX SLACK												20													
INTERSECTION N014: MORSE RD. AT TAMARACK BLVD.																										
220	IC-1	129+50, 82' LT		1									110													
220	IC-2	129+50, 82' LT	129+60, 82' LT										20													
220	TC-1	129+60, 82' LT					2	1	1						1											
INTERSECTION N015: HEATON RD. AT MORSE RD.																										
221	IC-1	139+35, 73' LT		1									110													
221	IC-2	139+35, 73' LT	139+20, 73' LT										25													
221	TC-1	139+20, 73' LT					2	1	1						1											



MORSE RD AT NORTHTOWNE BLVD AND WALFORD ST - N016

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 542 — INT #N016 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 542

NOTES:

1. SEE SHEET 542 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 228 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1003 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

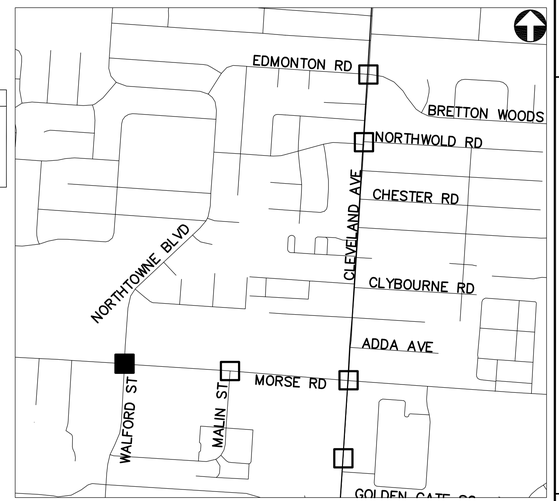
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

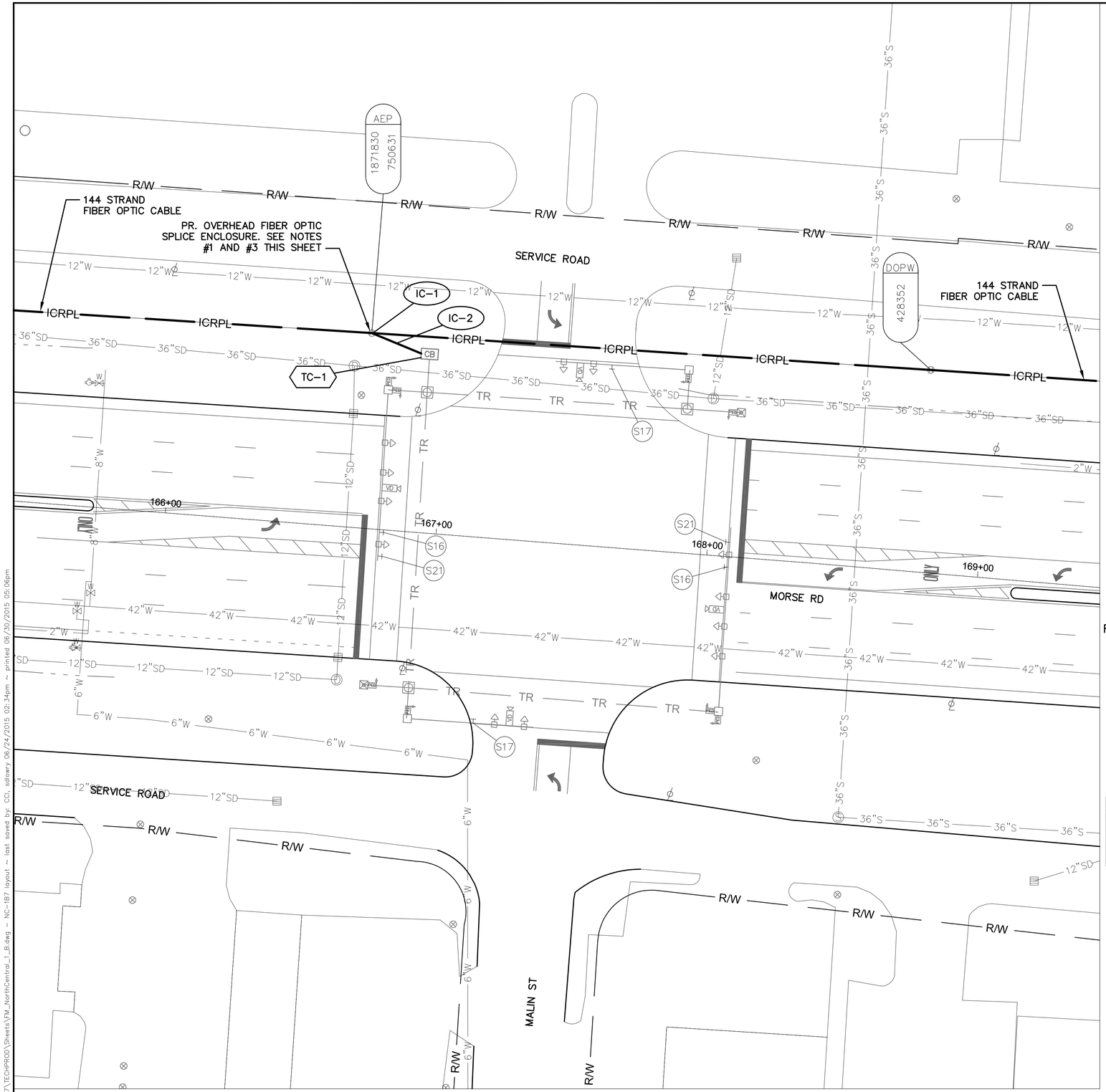
PID NUMBER 13034

MORSE RD AT NORTHTOWNE BLVD AND WALFORD ST INTERSECTION N016

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

223
1107

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MALIN ST AT MORSE RD - N017

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 543 — INT #N017 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 543

NOTES:

1. SEE SHEET 543 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 228 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1004 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

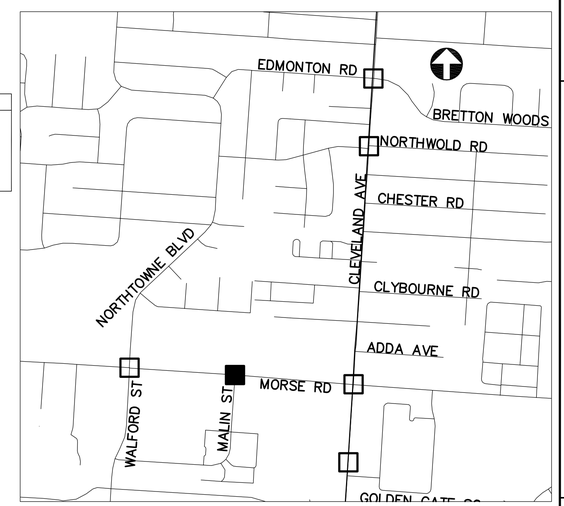
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MALIN RD AT MORSE RD
INTERSECTION N017

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

224
1107

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DOPW(P) OH ST LIGHTING

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

MORSE RD

CLEVELAND AVE

AEP 1873134 750517

AEP 1873236 750616

AEP 1872996 750323

AEP 1873236 750350

AEP 1873124 750255

IC-1 IC-2 TC-1 CTV-1 EC-1 EC-2 CTV-2

NC

179+00 180+00 181+00 182+00 132+00 133+00 134+00 135+00

S16

ICRPL ICNEW R/W TR SD CB

CLEVELAND AVE AT MORSE RD- N040

INTERSECTION COMMUNICAITONS

PROPOSED FIBER CABLE SEE SHEET 592

PROPOSED FIBER CABLE SEE SHEET 543

INT #N040 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 543

PROPOSED FIBER CABLE SEE SHEET 592

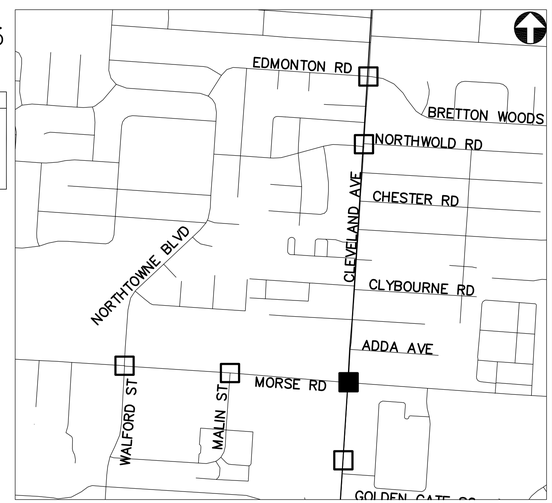
(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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

NOTES:

1. SEE SHEETS 543 AND 592 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 228 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1027 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

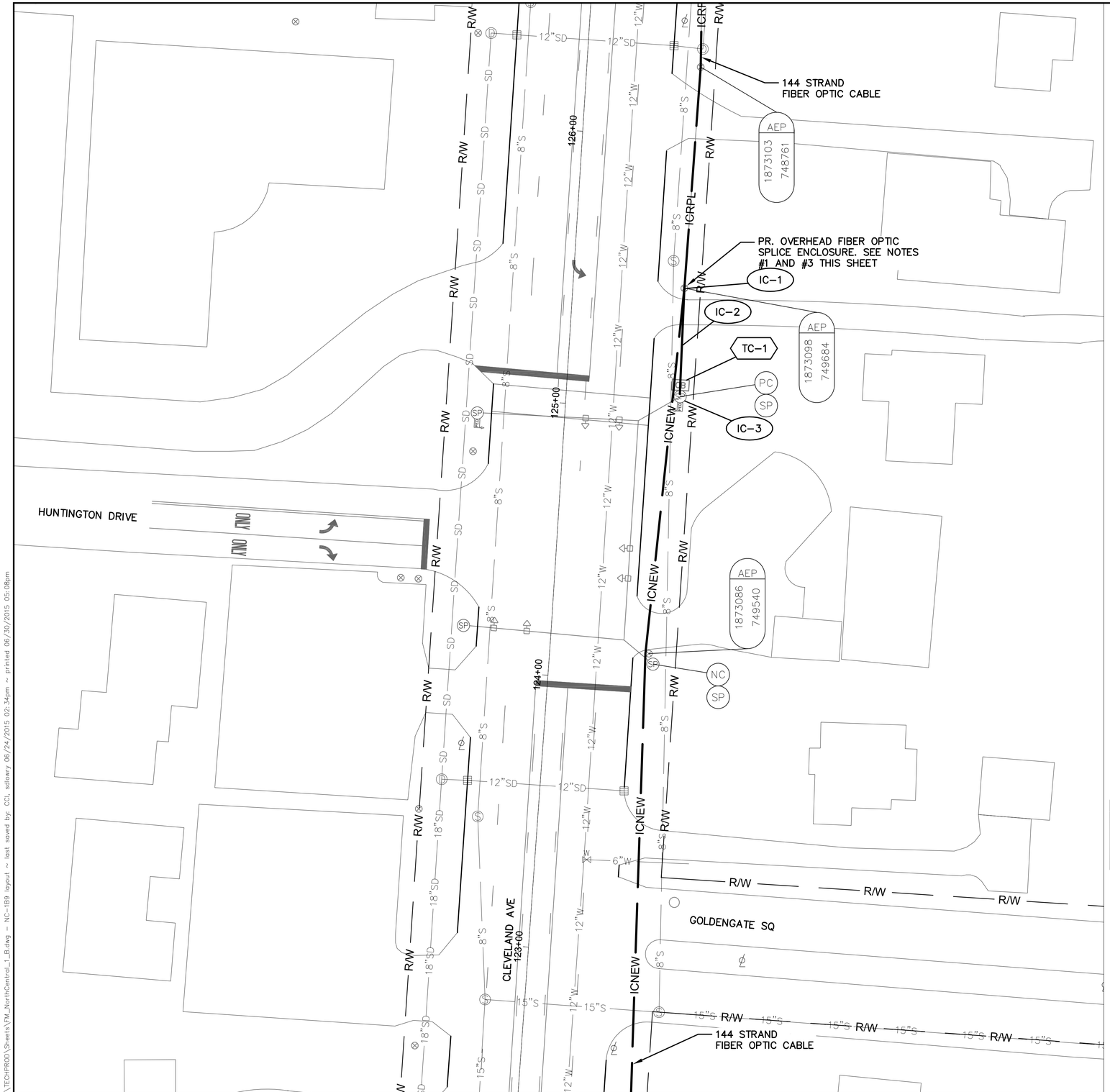
PID NUMBER 13034

CLEVELAND AVE AT MORSE RD INTERSECTION N040

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

225
1107

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CLEVELAND AVE AT HUNTINGTON DR - N062

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 592

INT #N062 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 591

NOTES:

1. SEE SHEETS 591 AND 592 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 228 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1049 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT HUNTINGTON DR
INTERSECTION N062

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

226
1107

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144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH PRIMARY
& ST LIGHTING

DOPW
109273

DOPW
109272

AEP
1866504
752462

RED ROBIN RD

KARL RD

TC-1

IC-3

IC-2

IC-1

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

85+00
84+00
83+00
82+00

KARL RD AT RED ROBIN DR - N020

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
582

INT #N020 WITH
PROPOSED SIGNAL
CONTROLLER

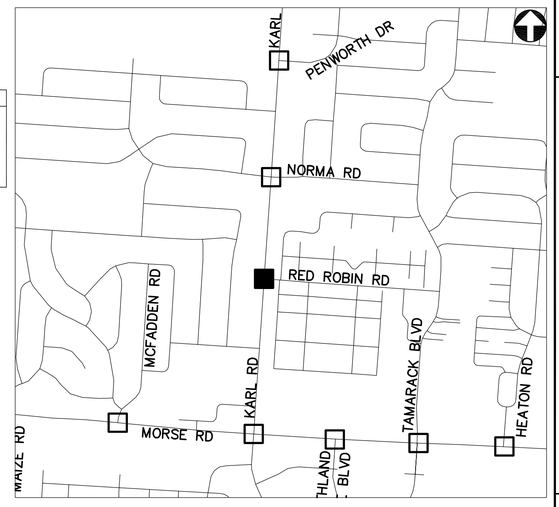
PROPOSED
FIBER CABLE
SEE SHEET
582

NOTES:

1. SEE SHEET 582 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 228 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1007 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

KARL RD AT RED ROBIN DR
INTERSECTION N020

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

227
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_NorthCentral_1_B.dwg - NC-1B10 layout ~ last saved by: COI, sdlowry 06/24/2015 02:34pm ~ printed 06/30/2015 05:09pm

ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	632	633	633	633	633	633	633	633	633	804	804	804	804	633								
				CONDUIT; 2" RISER, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: ANALOG/DIGITAL VIDEO ENCODER	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	CONTROLLER ITEM, MISC.: VIDEO PTZ DATA COAX MEDIA CONTROLLER								
		FROM	TO	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	EACH									
INTERSECTION N016: MORSE RD. AT NORTHTOWNE BLVD. & WALFORD ST.																										
223	IC-1	154+49, 72' LT		1										110												
223	IC-2	154+49, 72' LT	155+20, 70' LT											81												
223	TC-1	155+20, 70' LT					2	1	1							1										
223	PULL BOX SLACK													10												
INTERSECTION N017: MALIN DR. AT MORSE RD.																										
224	IC-1	166+68, 72' LT		1										110												
224	IC-2	166+68, 72' LT	166+90, 66' LT											33												
224	TC-1	166+90, 66' LT					2	1	1							1										
INTERSECTION N040: CLEVELAND AVE. AT MORSE RD.																										
225	IC-1	179+61, 69' RT													75											
225	IC-2	179+61, 69' RT	179+56, 77' RT												19											
225	TC-1	179+56, 77' RT					4	1	1									1								
225	EC-1	179+56, 77' RT	179+63, 77' RT									38														
225	CTV-1	179+63, 77' RT				1			1	1								1								
225	EC-2	179+63, 77' RT	181+55, 63' RT									235														
225	CTV-2	181+55, 63' RT				1			1	1								1								
225	PULL BOX SLACK											20														
INTERSECTION N062: CLEVELAND AVE. AT HUNTINGTON BANK DR.																										
226	IC-1	125+45, 41' RT												75												
226	IC-2	125+45, 41' RT	125+05, 42' RT		40									40												
226	IC-3	125+05, 42' RT												35												
226	TC-1	125+05, 42' RT					2		1	1						1										
INTERSECTION N020: KARL RD. AT RED ROBIN RD.																										
227	IC-1	82+95, 25' RT												75												
227	IC-2	82+95, 25' RT	83+56, 42' RT		63								63	63												
227	IC-3	83+56, 42' RT												35												
227	TC-1	83+56, 42' RT					2		1		1					1										
		SHEET TOTAL		2	103	2	12	3	7	3	1	293	63	667	94	4	1	2	-	-	-	-	-	-	-	-

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N016, N017, N040, N062 AND N020

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

228
1107

J:\Jobs\47857\TECH\ROD\Sheets\FM_NorthCentral_1_Quan.dwg – NC-1-Q04 layout ~ last saved by: COL dpark 03/26/2015 01:24pm ~ printed 06/30/2015 05:09pm

144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH PRIMARY
& OH ST LIGHTING

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

NORMA RD

KARL RD

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
583

INT #N021 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
582

NOTES:

1. SEE SHEETS 582 AND 583 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

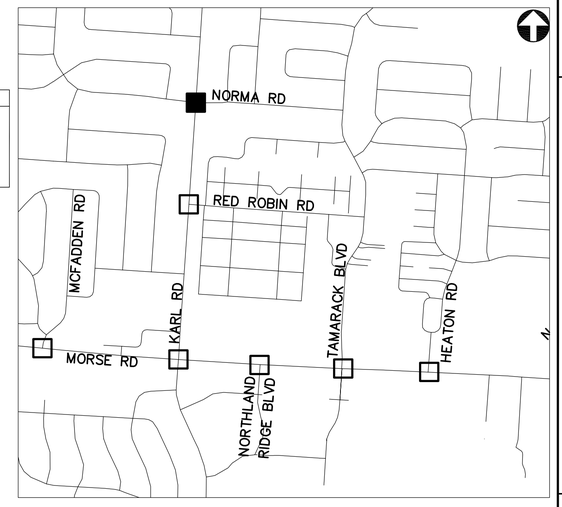
2. SEE SHEET 234 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1008 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

KARL RD AT NORMA RD - N021

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

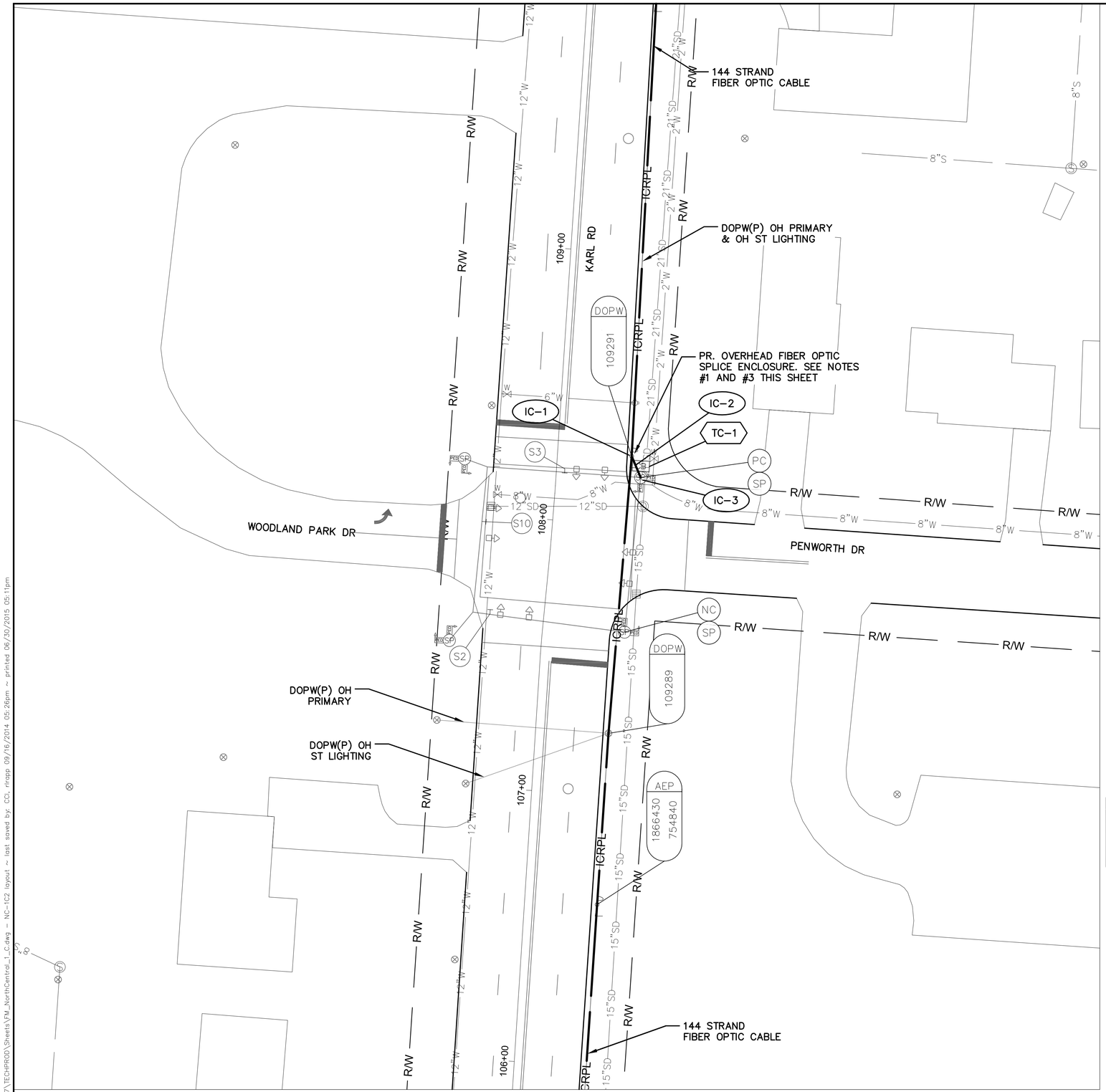
PID NUMBER
13034

KARL RD AT NORMA RD
INTERSECTION N021

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

229
1107

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KARL RD AT PENWORTH DR - N022

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 583

INT #N022 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 583

NOTES:

1. SEE SHEET 583 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 234 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1009 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

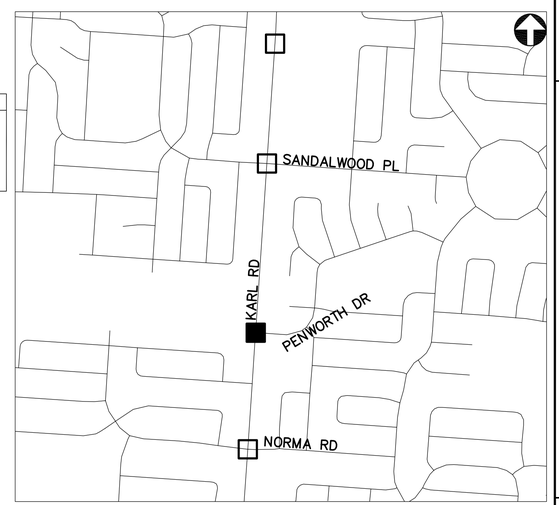
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

KARL RD AT PENWORTH DR
INTERSECTION N022

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

230
1107

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144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH PRIMARY
& OH ST LIGHTING

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

MAINTAIN LOOP HOMERUN CABLE.
DELASH FROM EXISTING CABLE AND
LASH WITH NEW 24 STRAND FIBER
OPTIC CABLE.

IC-1
IC-2
IC-3
IC-4
TC-1
PC
SP
NC
EB

DOPW
109304

DOPW
109303

128+00
127+00
126+00
125+00

SANDALWOOD PL

KARL RD

144 STRAND
FIBER OPTIC CABLE

KARL RD AT SANDALWOOD PL - N023

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
584

INT #023 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
584

NOTES:

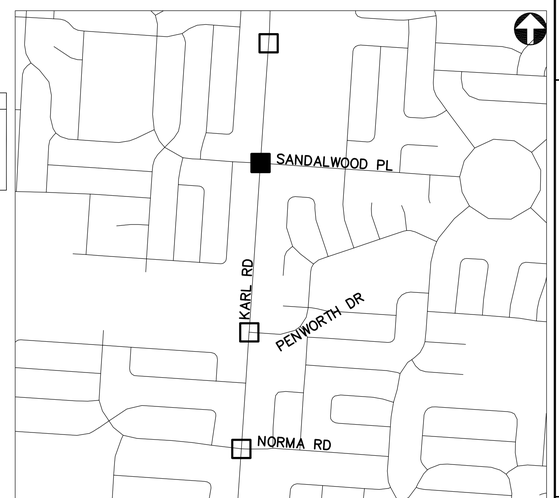
1. SEE SHEET 584 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 234 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1010 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

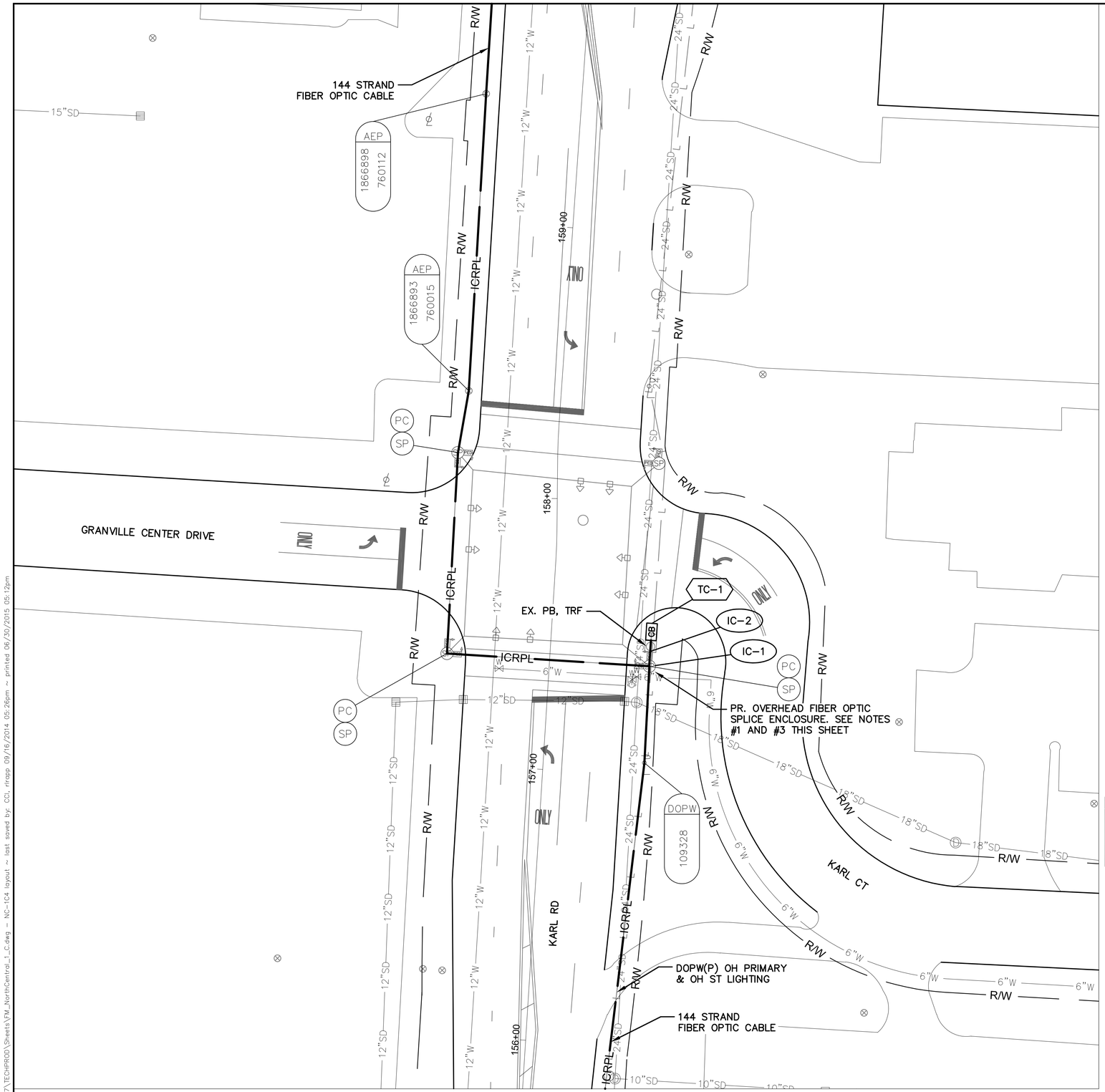
PID NUMBER
13034

KARL RD AT SANDALWOOD PL
INTERSECTION N023

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

231
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 585

INT #N024 WITH PROPOSED SIGNAL CONTROLLER

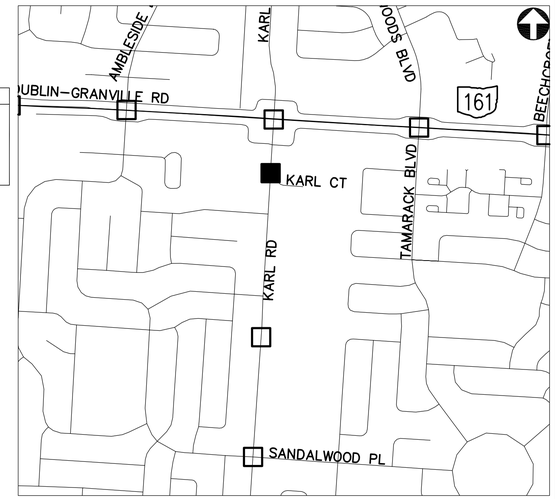
PROPOSED FIBER CABLE SEE SHEET 585

NOTES:

1. SEE SHEET 585 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 234 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1011 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

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



KEY PLAN
NOT TO SCALE

GRANVILLE CENTER DR AND KARL CT AT KARL RD - N024

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

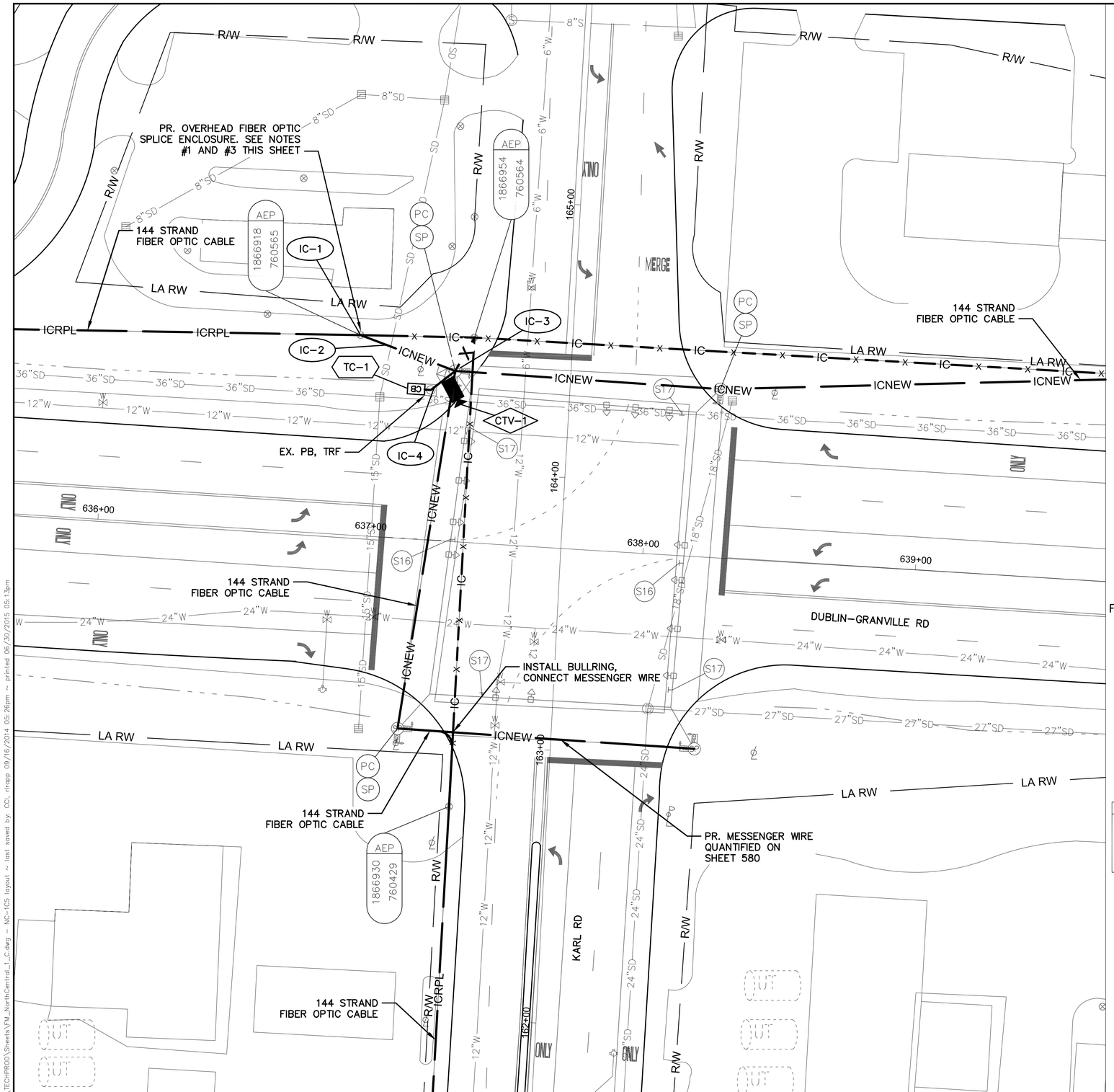
PID NUMBER 13034

GRANVILLE CENTER DR AND KARL CT AT KARL RD
INTERSECTION N024

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

232
1107

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DUBLIN-GRANVILLE RD AT KARL RD - N031

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 574 — INT #N031 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 575

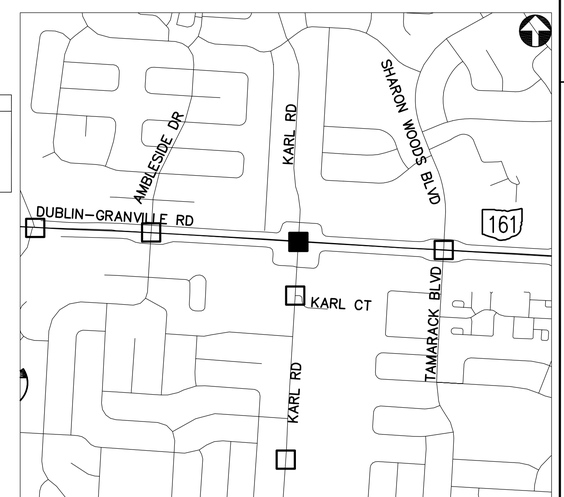
PROPOSED FIBER CABLE SEE SHEET 585

NOTES:

1. SEE SHEETS 574, 575 AND 585 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 234 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1018 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN-GRANVILLE RD AT KARL RD INTERSECTION N031

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

233
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)
INTERSECTION N021: KARL RD. AT NORMA RD.														
229	IC-1	94+71, 25' RT									75			
229	IC-2	94+71, 25' RT	94+75, 31' LT	56						56	56			
229	IC-3	94+75, 31' LT									35			
229	TC-1	94+75, 31' LT				2		1	1				1	
INTERSECTION N022: KARL RD. AT PENWORTH DR.														
230	IC-1	108+25, 27' RT									75			
230	IC-2	108+25, 27' RT	108+18, 31' RT	8						8	8			
230	IC-3	108+18, 31' RT									35			
230	TC-1	108+18, 31' RT				2	1	1					1	
INTERSECTION N023: KARL RD. AT SANDALWOOD PL.														
231	IC-1	127+32, 38' RT									75			
231	IC-2	127+32, 38' RT	127+14, 44' RT	20						20	20			
231	IC-3	127+14, 44' RT									35			
231	IC-4	127+14, 44' RT	127+16, 50' RT								17			
231	TC-1	127+16, 50' RT				2		1	1				1	
INTERSECTION N024: GRANVILLE CENTER DR. & KARL CT. AT KARL RD.														
232	IC-1	157+40, 37' RT									110			
232	IC-2	157+40, 37' RT	157+53, 37' RT								23			
232	TC-1	157+53, 37' RT				2		1	1				1	
232	PULL BOX SLACK										10			
INTERSECTION N031: DUBLIN GRANVILLE RD. AT KARL RD.														
233	IC-1	164+04, 78' LT										75		
233	IC-2	164+04, 78' LT	164+37, 42' LT	37								37		
233	IC-3	164+37, 42' LT										35		
233	IC-4	164+37, 42' LT	164+30, 56' LT									27		
233	TC-1	164+30, 56' LT				4		1	1					1
233	CTV-1	164+37, 42' LT			1									
233	PULL BOX SLACK											10		
SHEET TOTAL				121	1	12	1	5	4	84	574	184	4	1

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N021, N022, N023, N024 AND N031

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

234
1107

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144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH PRIMARY
& OH ST LIGHTING

REMOVE EXISTING
COAXIAL PLANT POWER SUPPLY

OVERHEAD FIBER OPTIC SPLICE
ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

KARL RD LIBRARY

KARL RD

DOPW 109313

DOPW 109312

DOPW 109311

TC-1

IC-3

IC-2

IC-1

PC

SP

ONLY

ONLY

141+00

140+00

139+00

138+00

R/W

IGRPL

12"W

2"W

6"W

21"SD

18"SD

15"SD

12"SD

10"SD

8"S

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
585

INT #N058 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
584

NOTES:

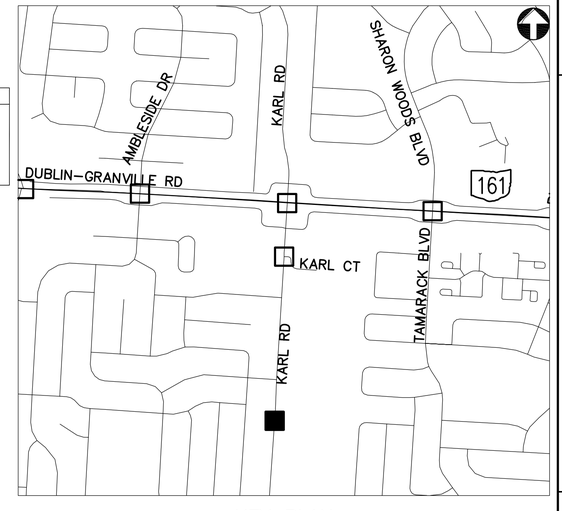
1. SEE SHEETS 584 AND 585 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 240 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1045 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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

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UTILITY LEGEND
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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

KARL RD AT KARL RD LIBRARY - N058

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

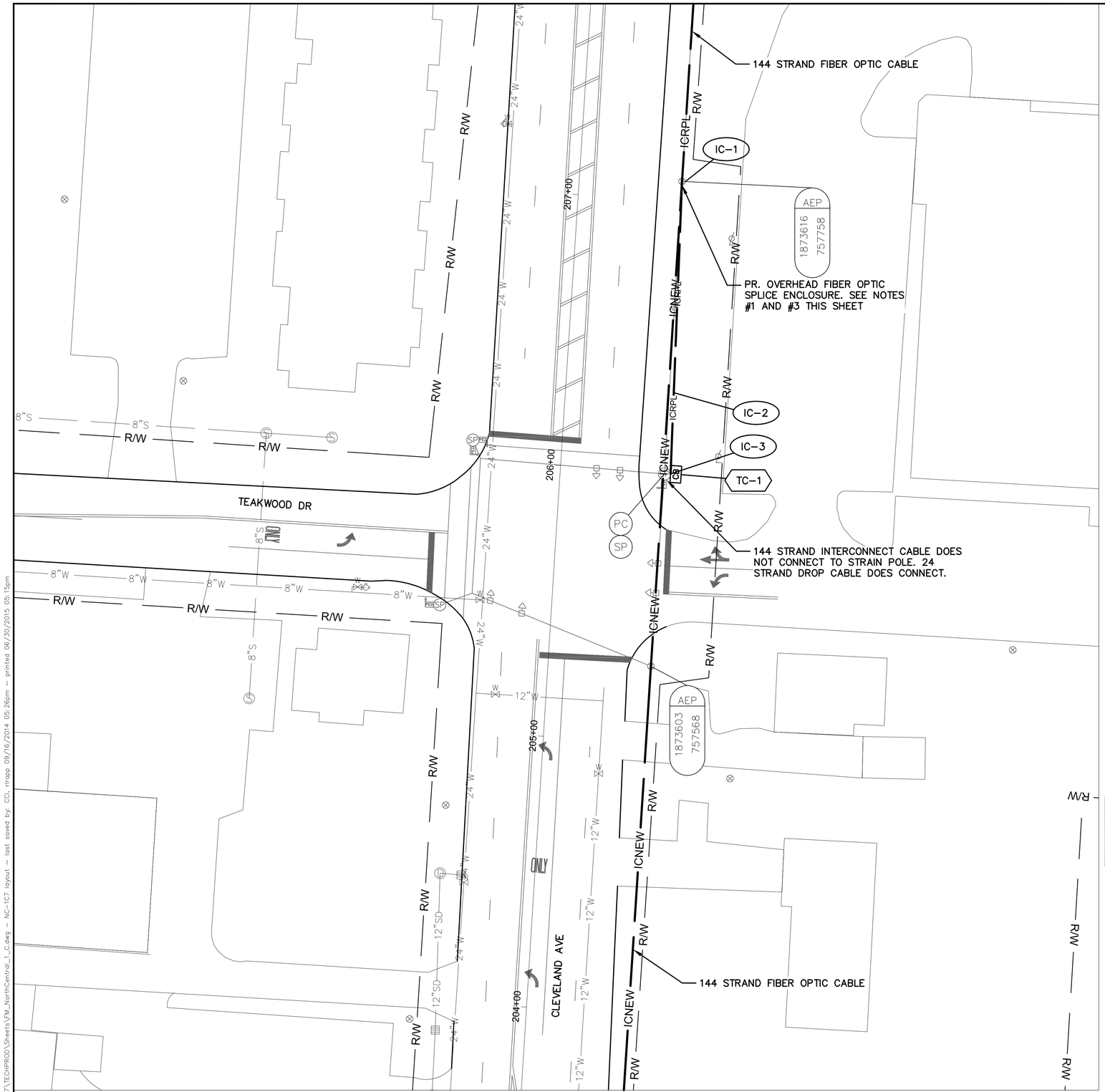
PID NUMBER
13034

KARL RD AT KARL RD LIBRARY
INTERSECTION N058

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

235
1107

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CLEVELAND AVE AT TEAKWOOD DR - N025

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 596

INT #N025 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 596

NOTES:

1. SEE SHEET 596 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 240 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1012 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

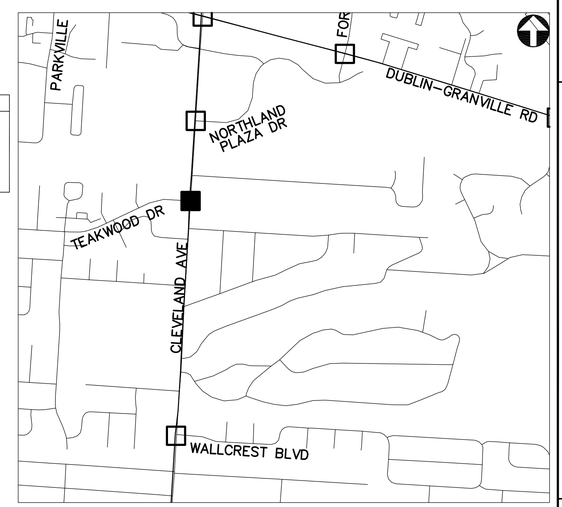
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT TEAKWOOD DR
INTERSECTION N025

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

236
1107

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144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH
ST LIGHTING

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

NORTHWOLD RD

TAYMOUTH RD

CLEVELAND AVE

ICRPL

AEP
1873317
753194

AEP
1873309
753070

AEP
1873300
752913

IC-1
IC-2
IC-3
TC-1
PC
SP
CB

161+00
160+00
159+00
158+00

ONLY

R/W
24"W
18"SD
15"SD
12"SD
42"SD
12"W
8"W
8"S
SD

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
593

INT #N041 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
593

NOTES:

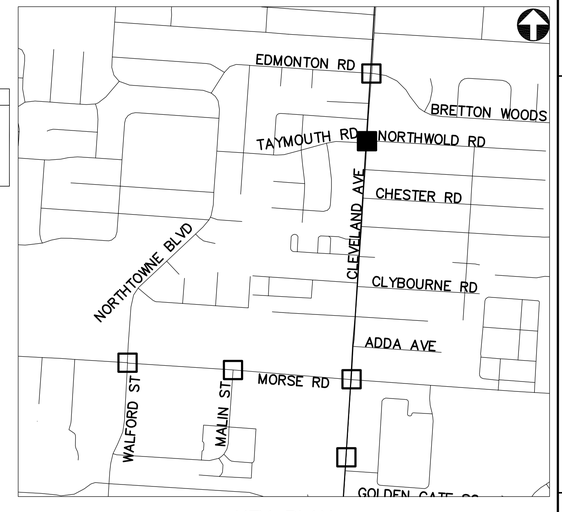
1. SEE SHEET 593 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 240 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1028 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT NORTHWOLD RD AND TAYMOUTH RD - N041

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

CLEVELAND AVE AT NORTHWOLD RD AND TAYMOUTH RD
INTERSECTION N041

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

237
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 594

INT #N060 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 593

NOTES:

1. SEE SHEETS 593 AND 594 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 240 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1047 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

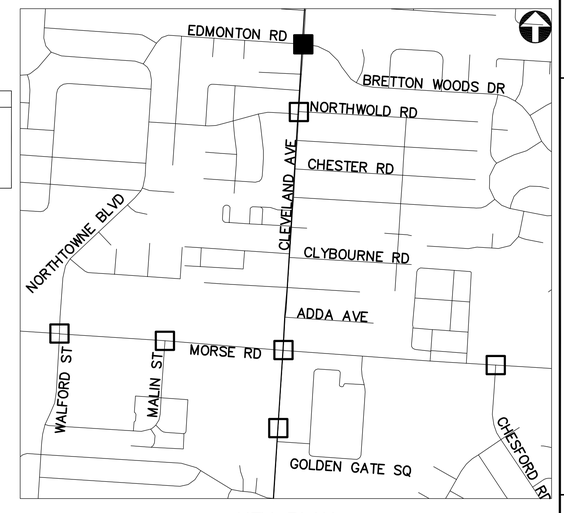
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BRETTON WOODS DR AND EDMONTON RD AT CLEVELAND AVE - N060

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

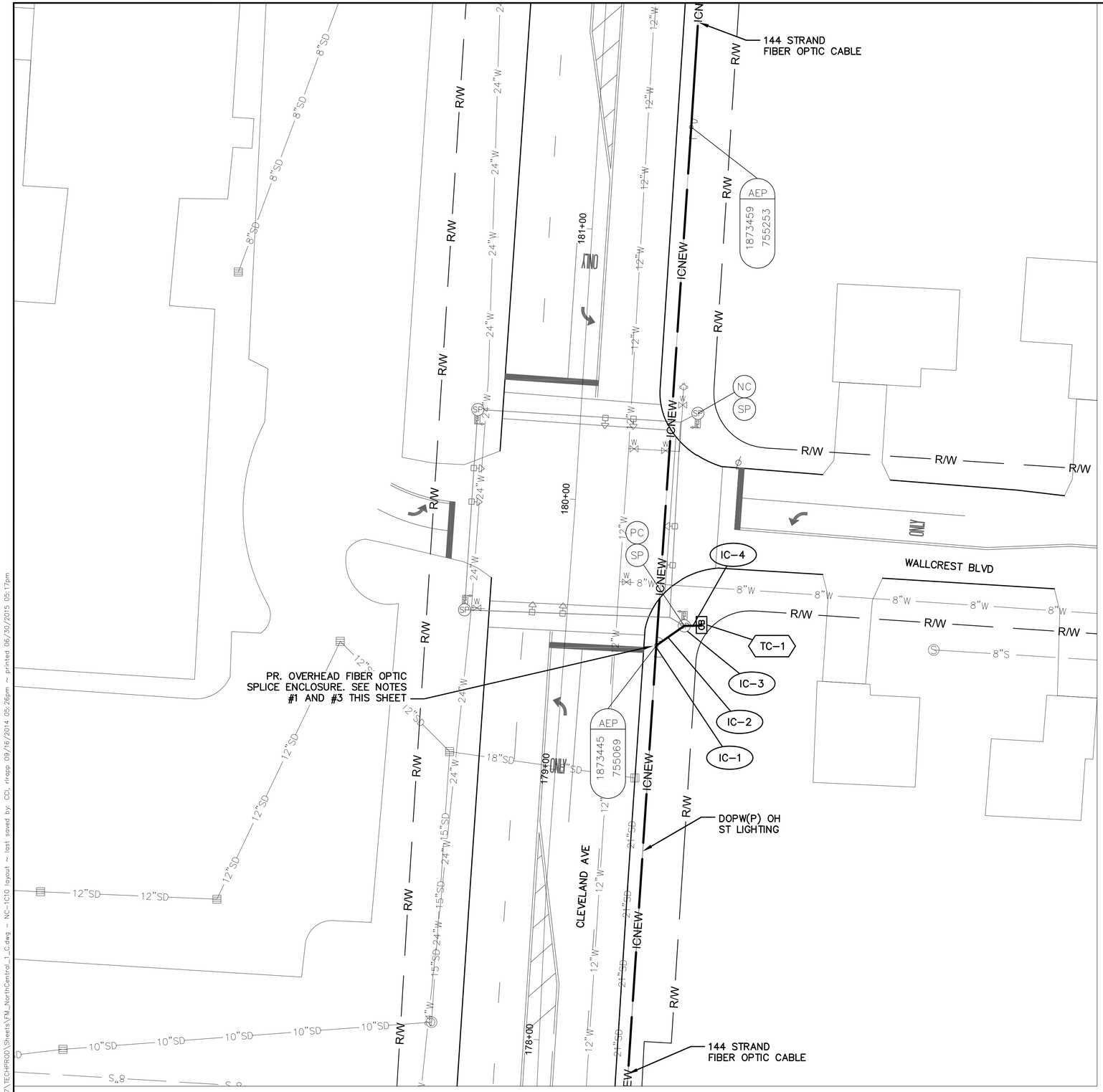
PID NUMBER 13034

BRETTON WOODS DR AND EDMONTON RD AT CLEVELAND AVE
INTERSECTION N060

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

238
1107

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CLEVELAND AVE AT WALLCREST BLVD - N061

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 594

INT #N061 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 594

NOTES:

1. SEE SHEET 594 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 240 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1048 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

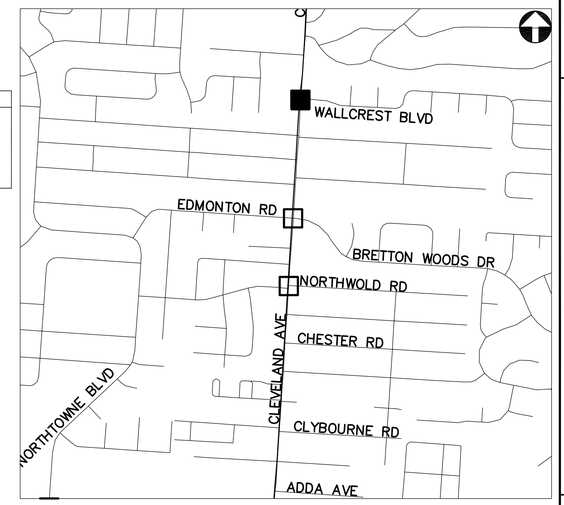
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT WALLCREST BLVD
INTERSECTION N061

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

239
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	804	804															
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION															
		FROM	TO	FT	EACH	EACH	EACH	FT	FT	EACH															
INTERSECTION N058: KARL RD. AT KARL RD. LIBRARY																									
235	IC-1	138+49, 27' LT							75																
235	IC-2	138+49, 27' LT	139+37, 39' LT	89				89	89																
235	IC-3	139+37, 39' LT							35																
235	TC-1	139+37, 39' LT			2	1	1			1															
INTERSECTION N025: CLEVELAND AVE. AT TEAKWOOD DR.																									
236	IC-1	207+07, 38' RT							75																
236	IC-2	207+07, 38' RT	205+99, 38 RT	108				108	108																
236	IC-3	205+99, 38 RT							35																
236	TC-1	205+99, 38 RT			2	1	1			1															
INTERSECTION N041: CLEVELAND AVE. AT NORTHWOLD RD. & TAYMOUTH RD.																									
237	IC-1	158+19, 33' RT							75																
237	IC-2	158+19, 33' RT	158+80, 43' LT	98				98	98																
237	IC-3	158+80, 43' LT							35																
237	TC-1	158+80, 43' LT			2	1	1			1															
INTERSECTION N060: BRETTON WOODS & EDMONTON AT CLEVELAND AVE.																									
238	IC-1	166+11, 31' RT							75																
238	IC-2	166+11, 31' RT	166+40, 51' LT	87				87	87																
238	IC-3	166+40, 51' LT							35																
238	IC-4	166+40, 51' LT	166+28, 56' LT						26																
238	TC-1	166+28, 56' LT			2	1	1			1															
238	PULL BOX SLACK								10																
INTERSECTION N061: CLEVELAND AVE. AT WALLCREST BLVD.																									
239	IC-1	179+48, 34' RT							75																
239	IC-2	179+48, 34' RT	179+56, 44' RT	13				0	13																
239	IC-3	179+56, 44' RT							35																
239	IC-4	179+56, 44' RT	179+57, 49' RT						16																
239	TC-1	179+57, 49' RT			2	1	1			1															
		SHEET TOTAL		395	10	5	5	382	997	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N058, N025, N041, N060 AND N061

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

240
1107

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PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

AEP 1862018 760878

AEP 1862217 760905

LA RW

BUSCH BLVD

IC-1

IC-2

IC-3

IC-4

TC-1

R/W

ICRPL

15"S

8"S

60"SD

12"SD

8"W

24"W

SERVICE ROAD

PC

SP

LCB

587+00

588+00

589+00

590+00

0+04.40

2+00

1+00

ONLY

DUBLIN–GRANVILLE RD

ROCHE DR

NORTH MEADOWS BLVD

36"SD

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 556

PROPOSED FIBER CABLE SEE SHEET 572

INT #N027 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 572

NOTES:

1. SEE SHEET 572 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 246 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1014 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

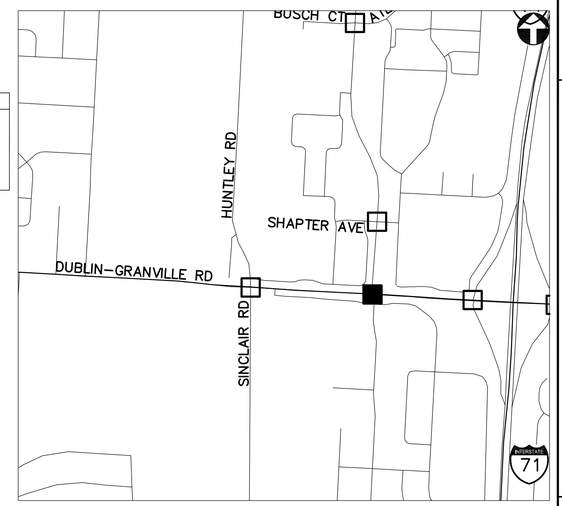
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

BUSCH BLVD AT DUBLIN-GRANVILLE RD - N027

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

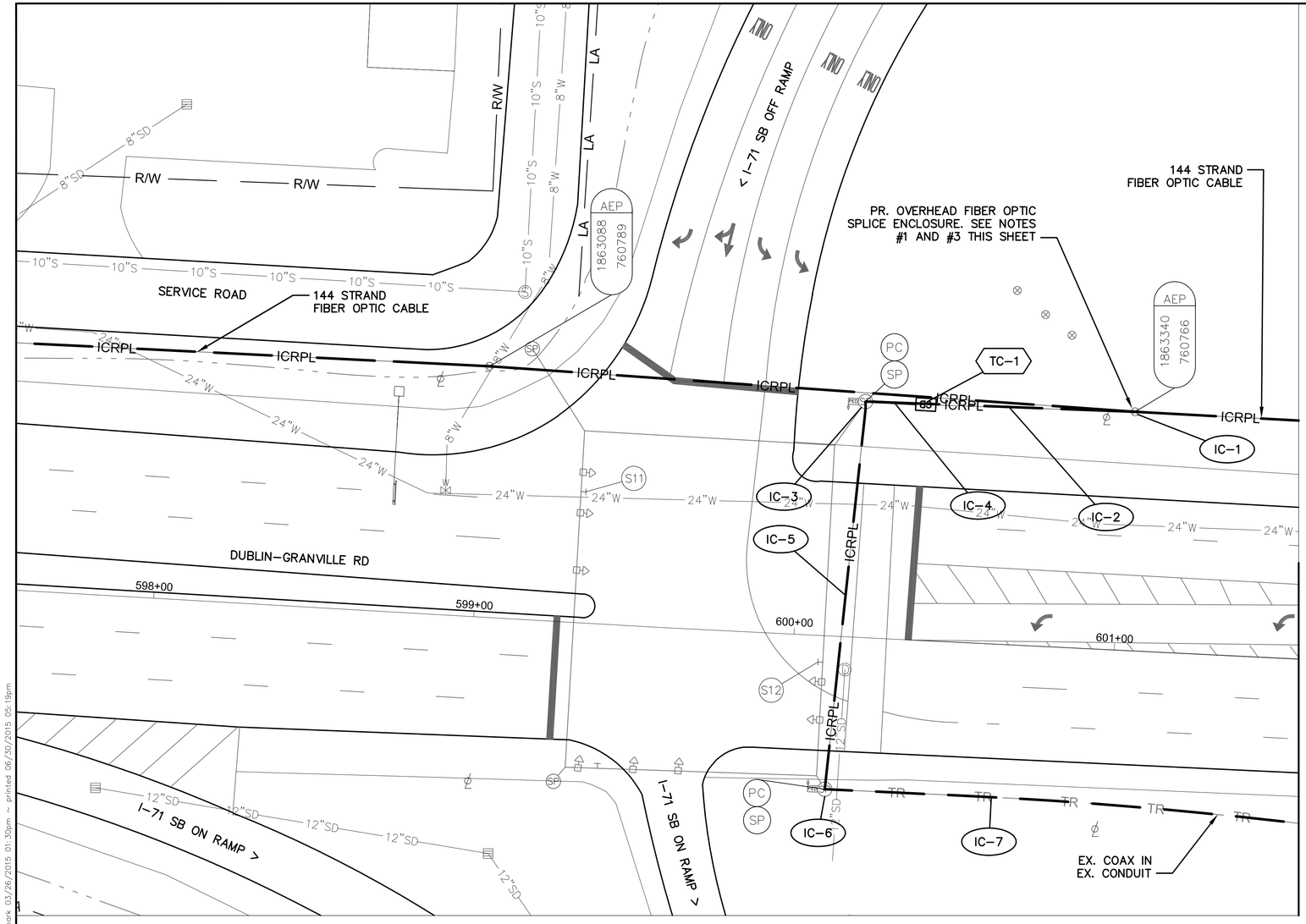
PID NUMBER 13034

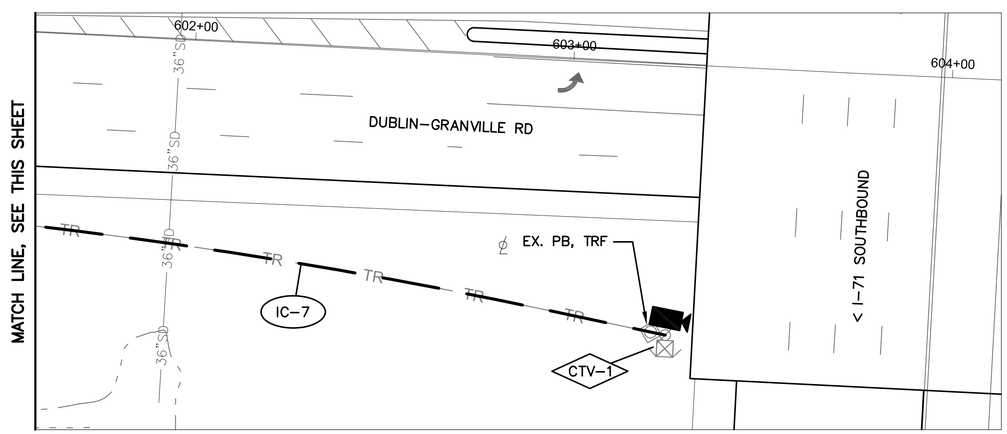
BUSCH BLVD AT DUBLIN–GRANVILLE RD
INTERSECTION N027

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

241
1107

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DUBLIN-GRANVILLE RD AT I-71 SB RAMPS - N028

INTERSECTION COMMUNICATIONS

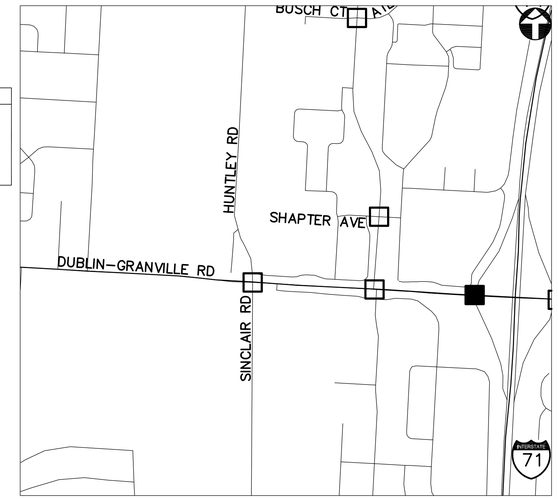
PROPOSED FIBER CABLE SEE SHEET 573 — INT #N028 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 573

NOTES:

1. SEE SHEET 573 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 246 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1015 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

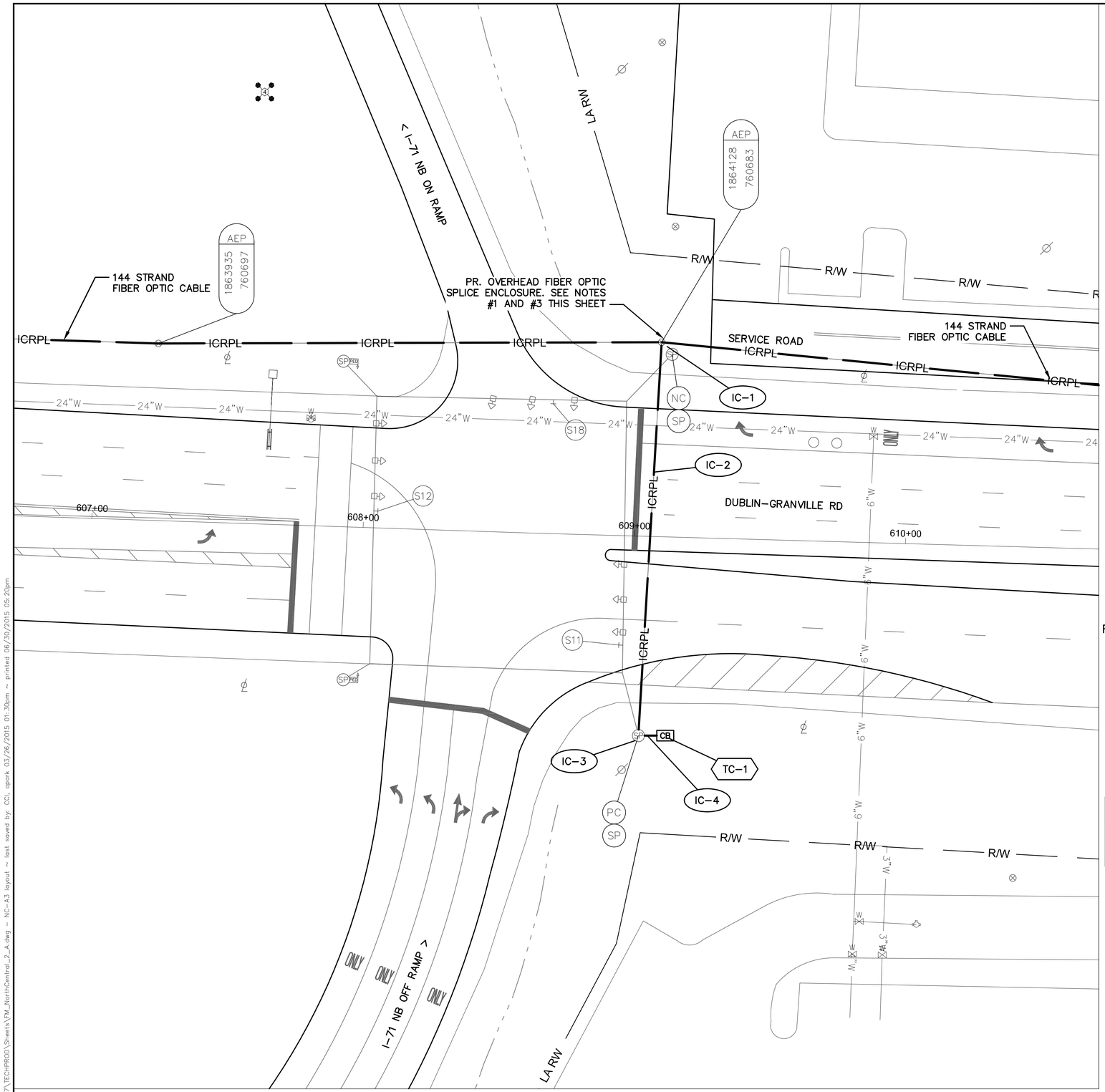
PID NUMBER 13034

DUBLIN-GRANVILLE RD AT I-71 SB RAMPS
INTERSECTION N028

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

242
1107

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DUBLIN-GRANVILLE RD AT I-71 NB RAMPS - N029

INTERSECTION COMMUNICATIONS

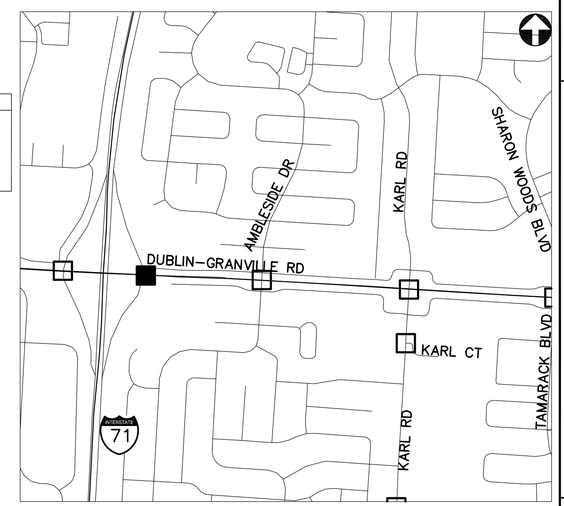
PROPOSED FIBER CABLE SEE SHEET 573 — INT #N029 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 573

NOTES:

1. SEE SHEET 573 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 246 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1016 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

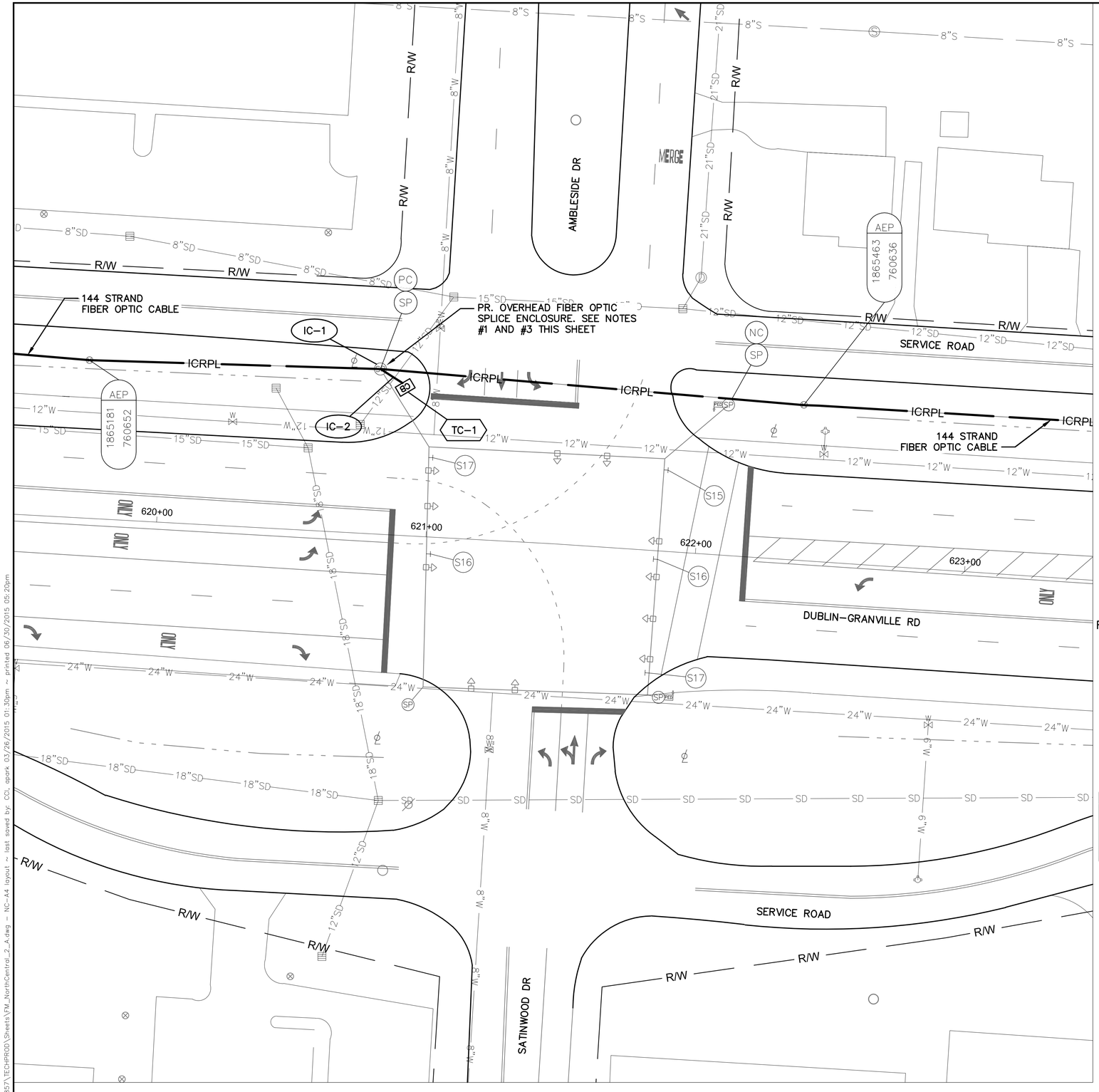
PID NUMBER
13034

DUBLIN-GRANVILLE RD AT I-71 NB RAMPS
INTERSECTION N029

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

243
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 574 — INT #N030 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 574

NOTES:

1. SEE SHEET 574 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 246 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1017 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

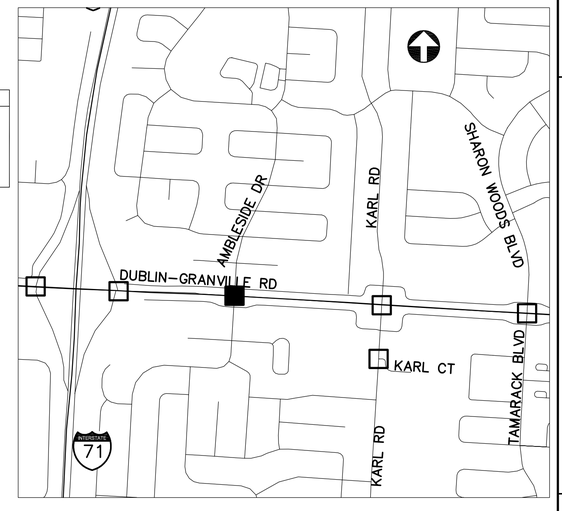
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

AMBLESIDE DR AND SATINWOOD DR AT DUBLIN-GRANVILLE RD - N030

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

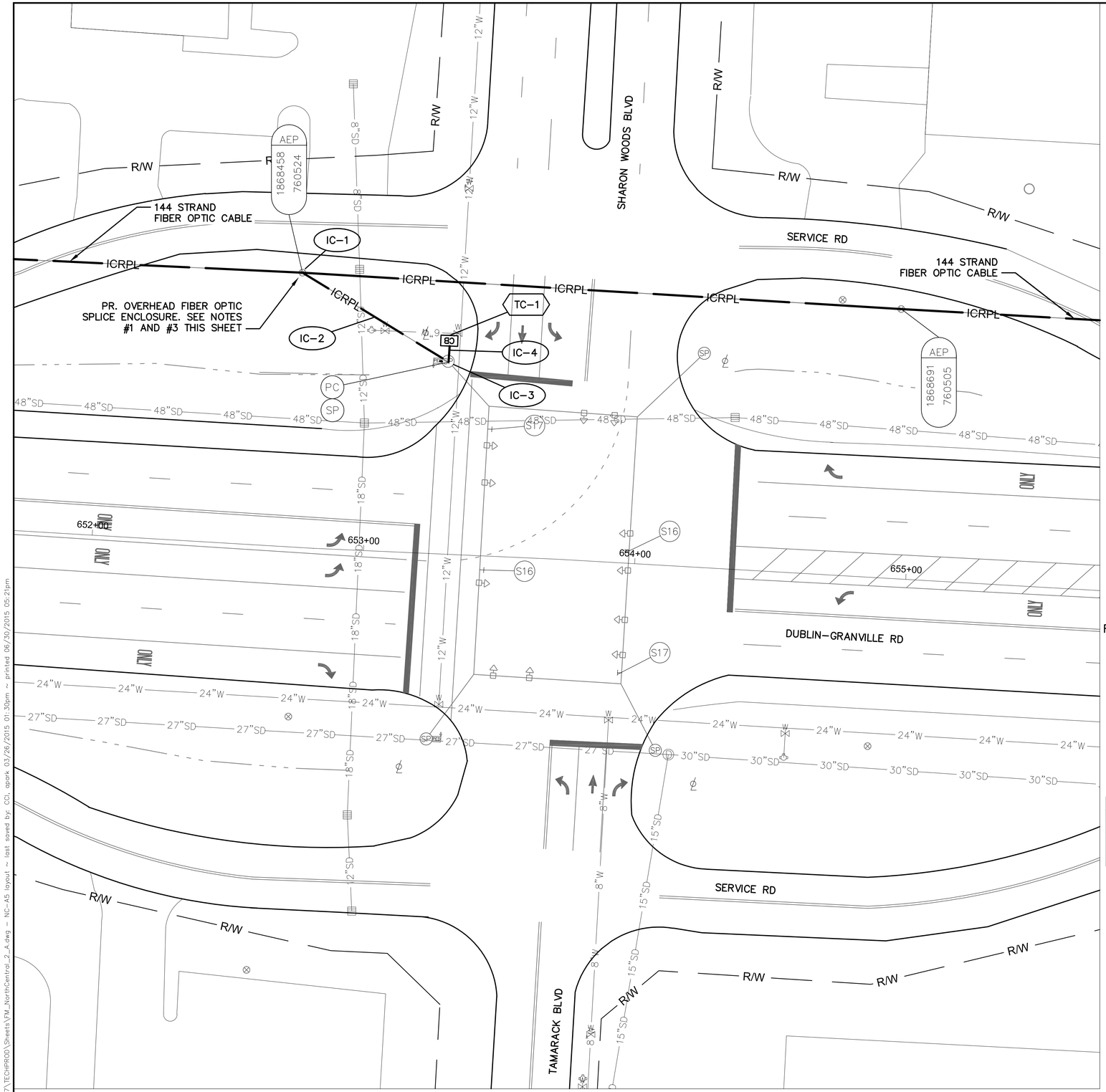
PID NUMBER 13034

AMBLESIDE DR AND SATINWOOD DR AT DUBLIN-GRANVILLE RD INTERSECTION N030

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

244
1107

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INTERSECTION COMMUNICATIONS

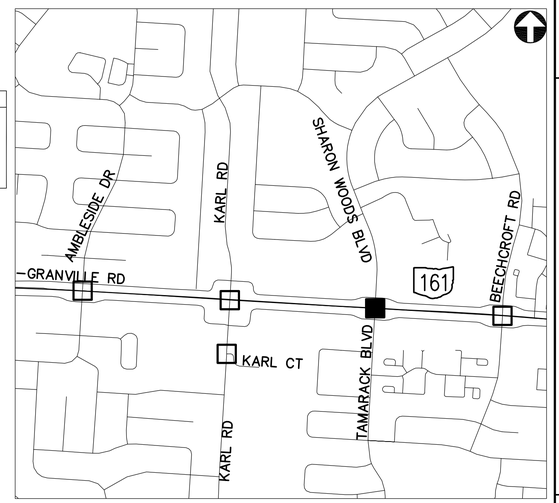
PROPOSED FIBER CABLE SEE SHEET 575 — INT #N032 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 575

NOTES:

1. SEE SHEET 575 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 246 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1019 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

DUBLIN-GRANVILLE RD AT SHARON WOODS BLVD AND TAMARACK BLVD - N032

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN–GRANVILLE RD AT SHARON WOODS BLVD AND TAMARACK BLVD
INTERSECTION N032

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

245
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES FT	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN EACH	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT FT	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE FT	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE FT	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION EACH	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION EACH	FUSION SPLICE, AS PER PLAN *
INTERSECTION N027: BUSCH BLVD. AT DUBLIN GRANVILLE RD.														
241	IC-1	587+19, 120' LT									75			
241	IC-2	587+19, 120' LT	587+99, 75' LT	92					92		92			
241	IC-3	587+99, 75' LT									35			
241	IC-4	587+99, 75' LT	587+93, 83' LT								20			
241	TC-1	587+93, 83' LT				3	1	1					1	
INTERSECTION N028: DUBLIN GRANVILLE RD. AT I-71 SB RAMPS														
242	IC-1	601+03, 75' LT								225				12
242	IC-2	601+03, 75' LT	600+19, 74' LT	84					84	168				
242	IC-3	600+19, 74' LT								35				
242	IC-4	600+19, 74' LT	600+37, 74' LT							29				
242	TC-1	600+37, 74' LT				3	1	1				2		
242	IC-5	600+19, 74' LT	600+12, 48' RT	122					122	122				
242	IC-6	600+12, 48' RT								35				
242	IC-7	600+12, 48' RT	603+28, 72'RT							326				
242	CTV-1	603+28, 72'RT			1	1	1					1		
242	PULL BOX SLACK									10				
INTERSECTION N029: DUBLIN GRANVILLE RD. AT I 71 NB RAMPS														
243	IC-1	609+08, 72' LT								75				
243	IC-2	609+08, 72' LT	609+04, 74' RT	146					146	146				
243	IC-3	609+04, 74' RT								35				
243	IC-4	609+04, 74' RT	609+13, 73' RT							20				
243	TC-1	609+13, 73' RT				2	1	1				1		
INT. N030: AMBLESIDE DR & SATINWOOD DR. AT DUBLIN GRANVILLE RD.														
244	IC-1	620+80, 61' LT								110				
244	IC-2	620+80, 61' LT	620+89, 55' LT							21				
244	TC-1	620+89, 55' LT				2	1	1				1		
INT. N032: DUBLIN GRANVILLE RD. AT SHARON WOODS & TAMARACK BLVD.														
245	IC-1	652+72, 101' LT								75				
245	IC-2	652+72, 101' LT	653+28, 71' LT	63					63	63				
245	IC-3	653+28, 71' LT								35				
245	IC-4	653+28, 71' LT	653+28, 79' LT							18				
245	TC-1	653+28, 79' LT				2	1	1				1		
		SHEET TOTAL		507	1	13	6	5	507	1548	222	6	1	12

* NOTE: FIBER OPTIC FUSION SPLICES ARE INCIDENTAL TO FIBER OPTIC CABLE COST AND QUANTITIES ARE FOR REFERENCE ONLY. QUANTITIES ARE NOT CARRIED TO QUANTITY SUMMARY SHEETS.

2762 DR. E

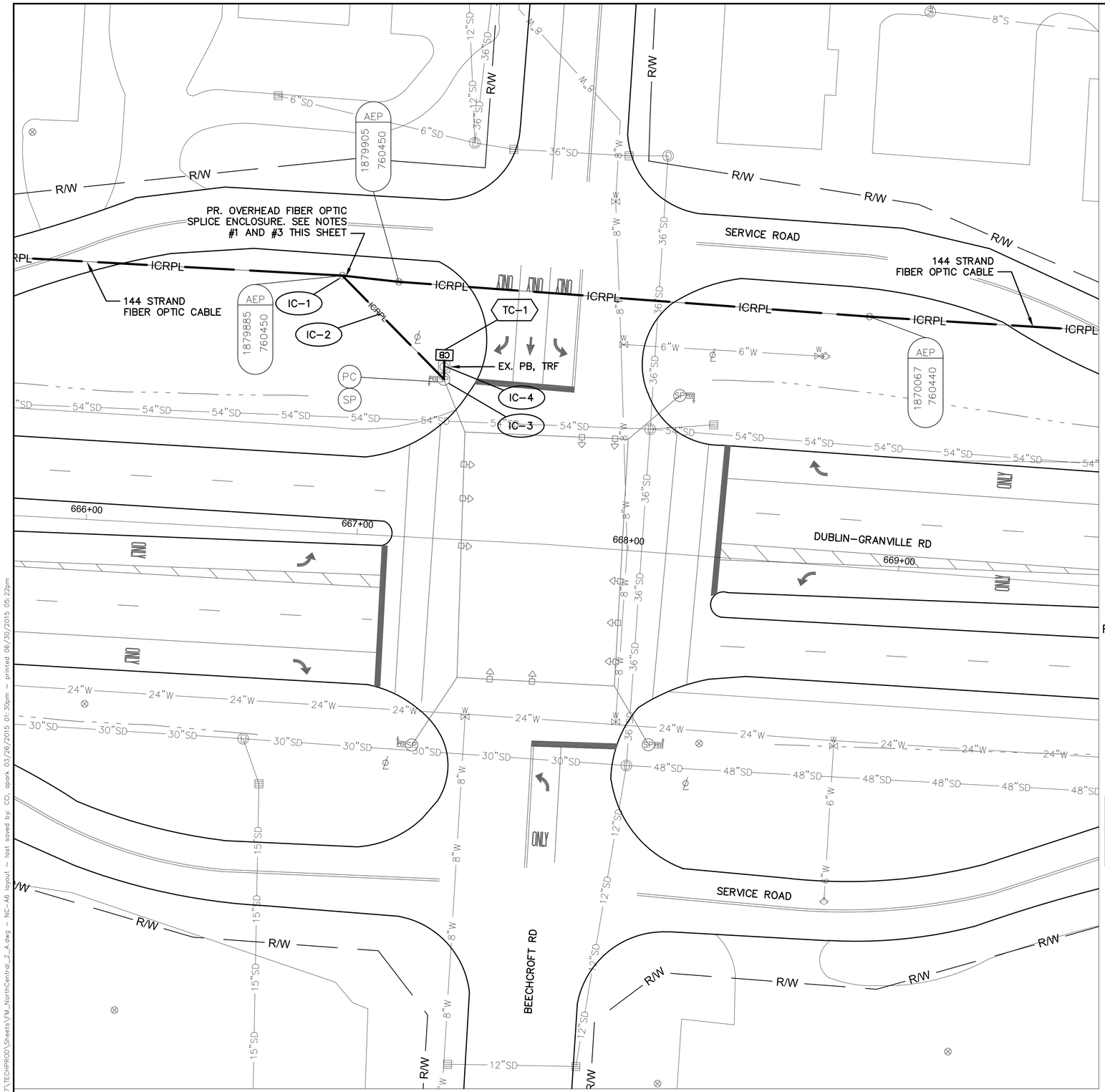
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N027, N028, N029, N030 AND N032

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

246
1107

J:\Jobs\47857\TECHPROD\Sheets\FM_NorthCentral_2_Quan.dwg – NC-2-Q01 layout ~ last saved by: COL rlrapp 09/16/2014 05:29pm ~ printed 06/30/2015 05:21pm



BEECHCROFT RD AT DUBLIN-GRANVILLE RD - N033

INTERSECTION COMMUNICATIONS

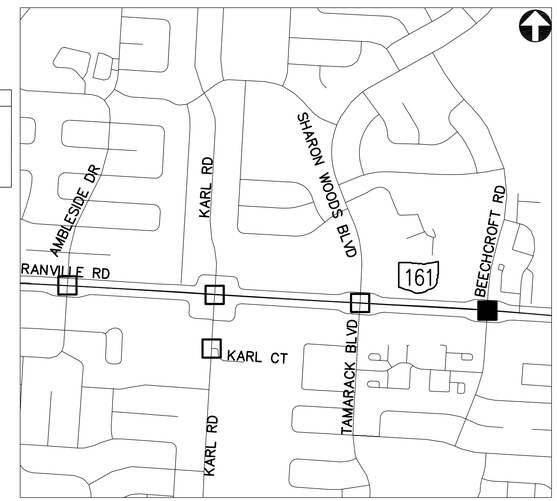
PROPOSED FIBER CABLE SEE SHEET 576 — INT #N033 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 576

NOTES:

1. SEE SHEET 576 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 252 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1020 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BEECHCROFT RD AT DUBLIN-GRANVILLE RD INTERSECTION N033

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

247
1107

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PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

2" FLEX. CONDUIT
2" RISER

IC-1
IC-2
IC-3
IC-4
TC-1

AEP 1871106 760374

AEP 1871293 760355

SERVICE ROAD

DUBLIN-GRANVILLE RD

MAPLE CANYON AVE

678+00
679+00
680+00
681+00

ONLY

R/W

ICRPL

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 576 — INT #N034 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 576

NOTES:

1. SEE SHEET 576 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 252 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1021 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

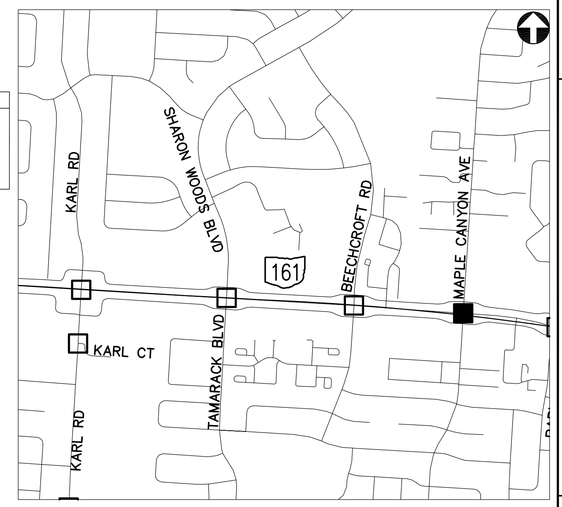
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

DUBLIN-GRANVILLE RD AT MAPLE CANYON AVE - N034

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

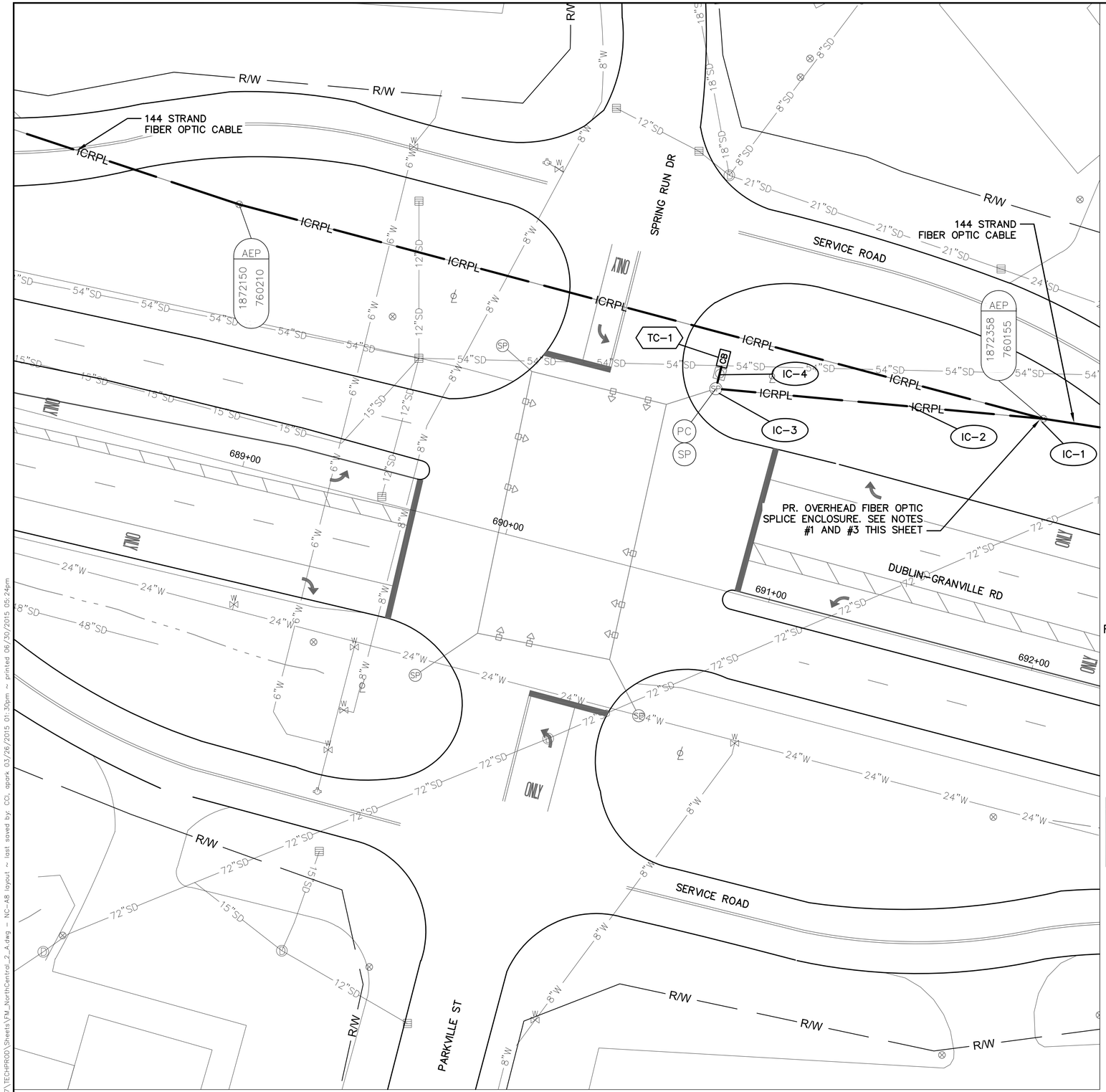
PID NUMBER 13034

DUBLIN-GRANVILLE RD AT MAPLE CANYON AVE
INTERSECTION N034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

248
1107

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DUBLIN-GRANVILLE RD AT PARKVILLE ST AND SPRING RUN DR - N035

INTERSECTION COMMUNICATIONS

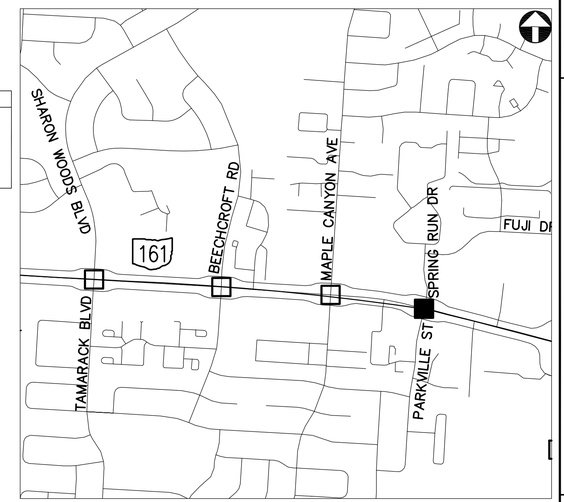
PROPOSED FIBER CABLE SEE SHEET 577 — INT #N035 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 577

NOTES:

1. SEE SHEET 577 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 252 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1022 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN-GRANVILLE RD AT PARKVILLE ST AND SPRING RUN DR INTERSECTION N035

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

249
1107

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(2)–144 STRAND FIBER OPTIC CABLE

IC–1
IC–2
IC–3
IC–4
IC–5

TC–1

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

REMOVE EX. COAX CABLE DROP TO CCTV.

CTV–1

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

AEP 1873672 759791

AEP 1873679 759636

AEP 1873770 759626

ICRPL

LA RW

R/W

ONLY

CLEVELAND AVE

DUBLIN–GRANVILLE RD

705+00
706+00
707+00
708+00
226+00
227+00
228+00
229+00

S16
S17

NC
SP
PC
CB
UT

12"SD
15"SD
18"SD
8"SD
24"W
36"W

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 597

PROPOSED FIBER CABLE SEE SHEET 577

INT #N036 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 578

PROPOSED FIBER CABLE SEE SHEET 596

NOTES:

1. SEE SHEETS 577, 578, 596, AND 597 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

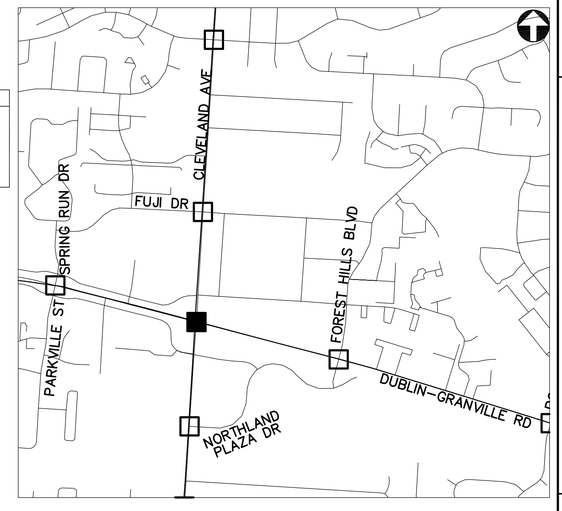
2. SEE SHEET 252 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1023 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP–CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES
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- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT DUBLIN-GRANVILLE RD- N036

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

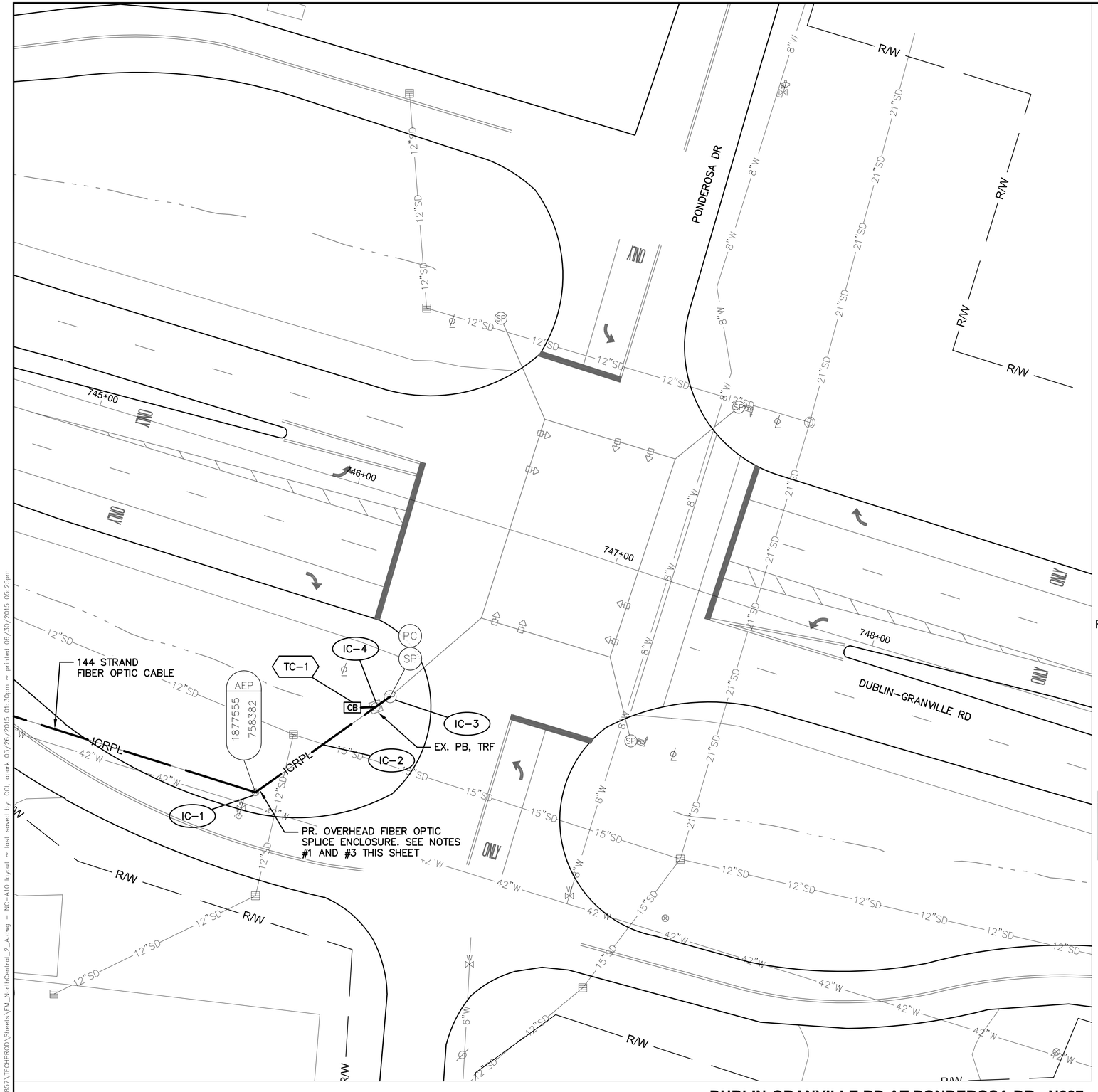
PID NUMBER 13034

CLEVELAND AVE AT DUBLIN–GRANVILLE RD INTERSECTION N036

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

250
1107

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INTERSECTION COMMUNICATIONS

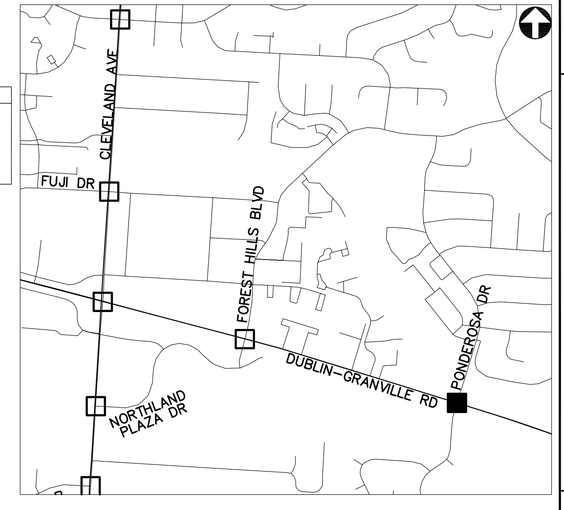
PROPOSED FIBER CABLE SEE SHEET 579 — INT #N037 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 579 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 252 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1024 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

DUBLIN-GRANVILLE RD AT PONDEROSA DR - N037

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN-GRANVILLE RD AT PONDEROSA DR
INTERSECTION N037

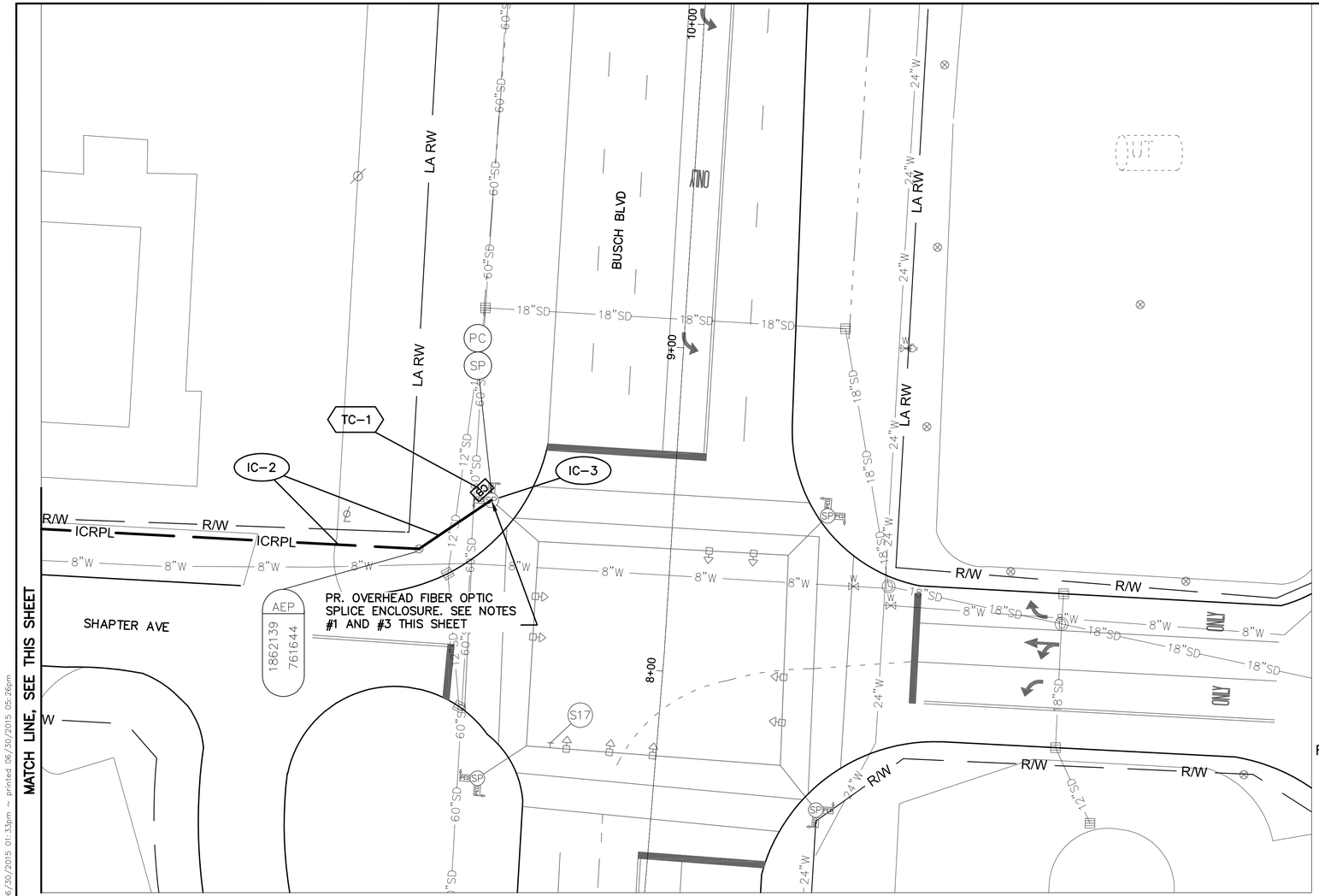
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

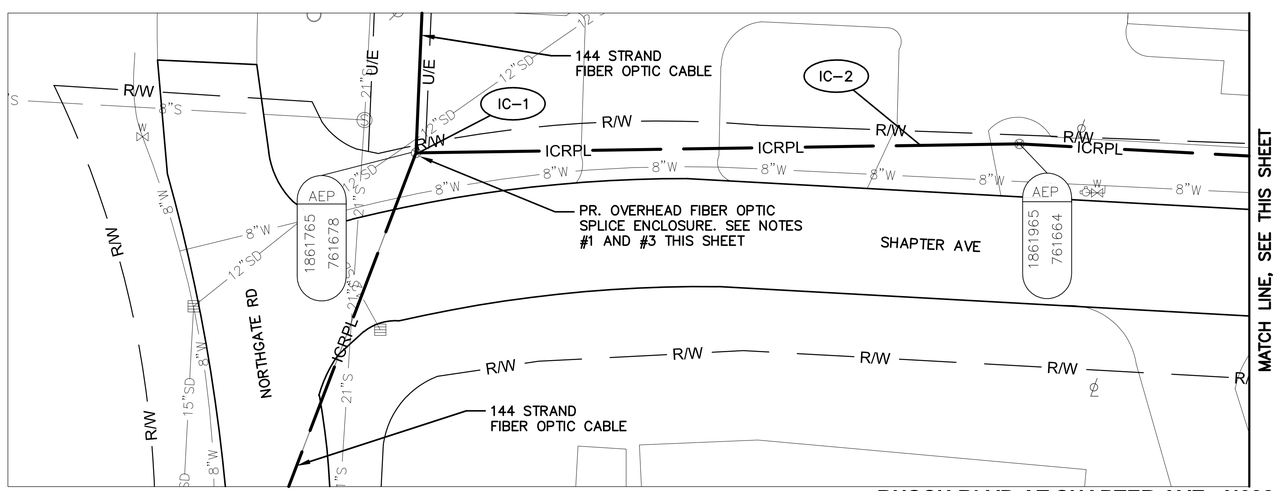
251
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)
INTERSECTION N033: DUBLIN GRANVILLE RD. AT BEECHCROFT RD.														
247	IC-1	666+89, 95' LT									75			
247	IC-2	666+89, 95' LT	667+29, 59' LT	53						53	53			
247	IC-3	667+29, 59' LT									35			
247	IC-4	667+29, 59' LT	667+29, 68' LT								19			
247	TC-1	667+29, 68' LT				2	1		1				1	
233	PULL BOX SLACK										10			
INTERSECTION N034: DUBLIN GRANVILLE RD. AT MAPLE CANYON AVE.														
248	IC-1	679+22, 103' LT									75			
248	IC-2	679+22, 103' LT	679+39, 61' LT	45						45	45			
248	IC-3	679+39, 61' LT									35			
248	IC-4	679+39, 61' LT	679+36, 69' LT								18			
248	TC-1	679+36, 69' LT				2	1	1					1	
INT. N035: DUBLIN GRANVILLE RD. AT PARKVILLE ST. & SPRING RUN DR.														
249	IC-1	691+81, 91' LT									75			
249	IC-2	691+81, 91' LT	690+61, 71' LT	121						121	121			
249	IC-3	690+61, 71' LT									35			
249	IC-4	690+61, 71' LT	690+62, 83' LT								22			
249	TC-1	690+62, 83' LT				2	1		1				1	
249	PULL BOX SLACK										10			
INTERSECTION N036: CLEVELAND AVE. AT DUBLIN GRANVILLE RD.														
250	IC-1	705+65, 77' LT										75		
250	IC-2	705+65, 77' LT	705+52, 65' LT	18						18		18		
250	IC-3	705+52, 65' LT										35		
250	IC-4	705+52, 65' LT	705+40, 62' LT									23		
250	IC-5	705+65, 77' LT	706+68, 70' LT	103						103				
250	CTV-1	706+68, 70' LT			1									
250	TC-1	705+40, 62' LT				4	1		1					1
INTERSECTION N037: DUBLIN GRANVILLE RD. AT PONDEROSA DR.														
251	IC-1	745+97, 121' RT									75			
251	IC-2	745+97, 121' RT	746+34, 72' RT	61						61	61			
251	IC-3	746+34, 72' RT									35			
251	IC-4	746+34, 72' RT	746+22, 80' RT								25			
251	TC-1	746+22, 80' RT				2	1		1				1	
251	PULL BOX SLACK										10			





BUSCH BLVD AT SHAPTER AVE - N038

INTERSECTION COMMUNICATIONS

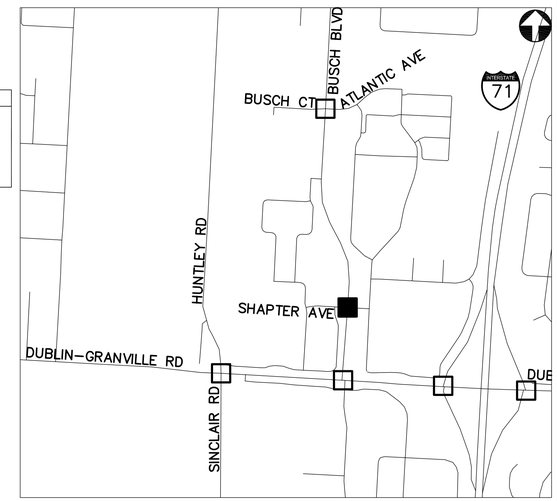
PROPOSED FIBER CABLE SEE SHEET 556 — INT #N038 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 556 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 258 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1025 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

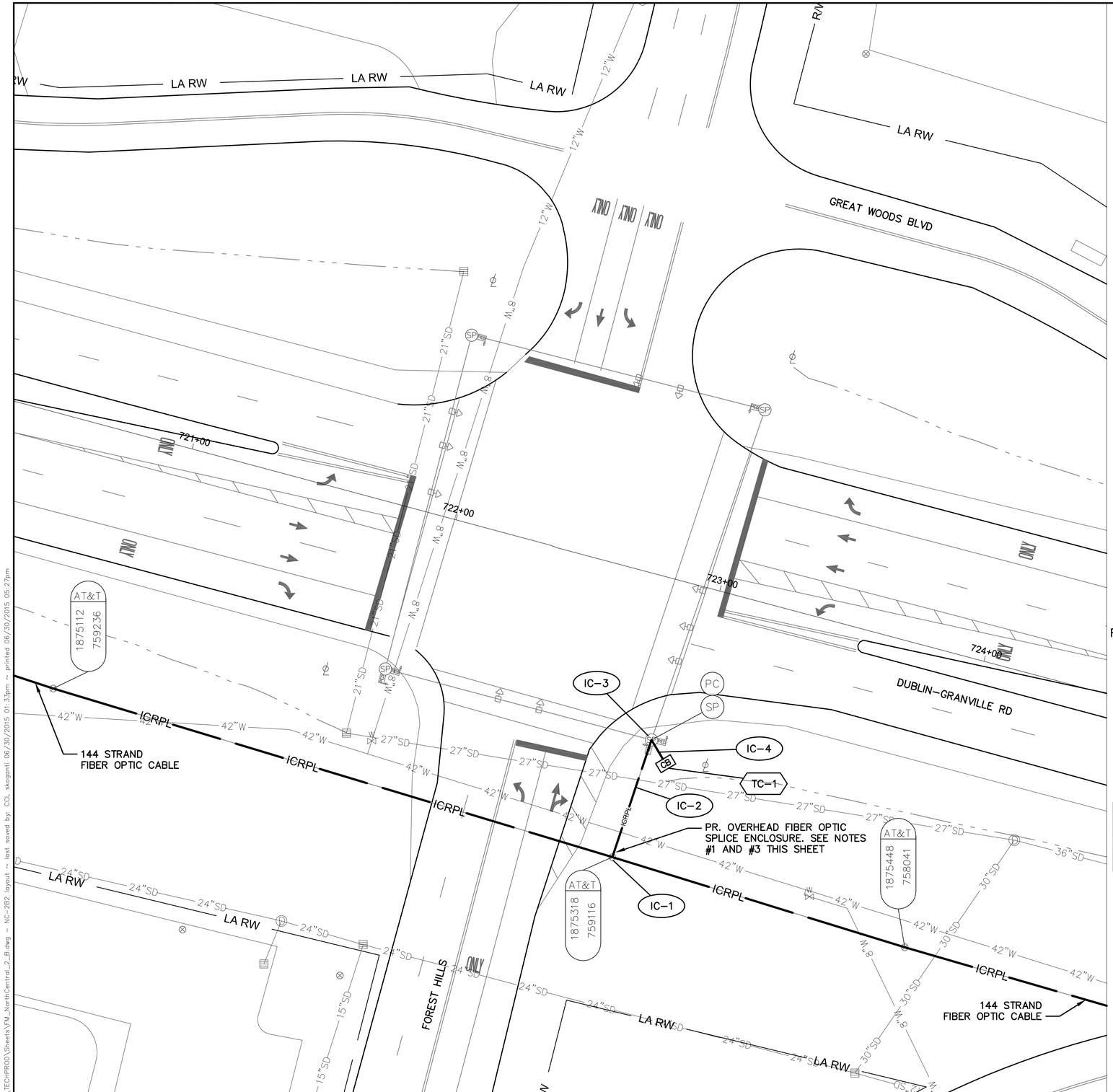
PID NUMBER 13034

BUSCH BLVD AT SHAPTER AVE
INTERSECTION N038

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

253
1107

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DUBLIN-GRANVILLE RD AT FOREST HILLS BLVD - N039

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 578 — INT #N039 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 578

NOTES:

1. SEE SHEET 578 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 258 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1026 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN–GRANVILLE RD AT FOREST HILLS BLVD
INTERSECTION N039

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

254
1107

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144 STRAND
FIBER OPTIC CABLE

144 STRAND
FIBER OPTIC CABLE

EX. PB W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

TC-1

IC-2

IC-1

PC

SP

LA RW

R/W

TR

ONLY

IGRPL

BUSCH BLVD

KINGSMILL PKWY

47+00

46+00

45+00

44+00

8"W

12"W

10"S

15"SD

18"SD

24"SD

36"SD

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
559

INT #N042 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
559

NOTES:

1. SEE SHEET 559 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

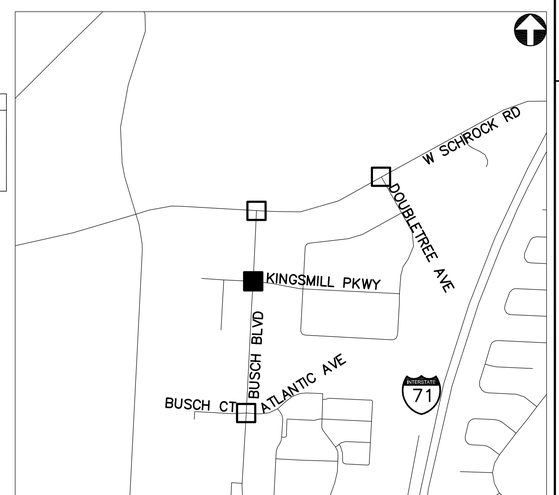
2. SEE SHEET 258 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1029 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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CITY OF COLUMBUS
UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

BUSCH BLVD AT KINGSMILL PKWY - N042

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

BUSCH BLVD AT KINGSMILL PKWY
INTERSECTION N042

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

255
1107

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BUSCH BLVD AT SCHROCK RD- N043

INTERSECTION COMMUNICATIONS

INT #N043 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 560

PROPOSED FIBER CABLE SEE SHEET 559

NOTES:

1. SEE SHEETS 559 AND 560 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 258 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1030 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

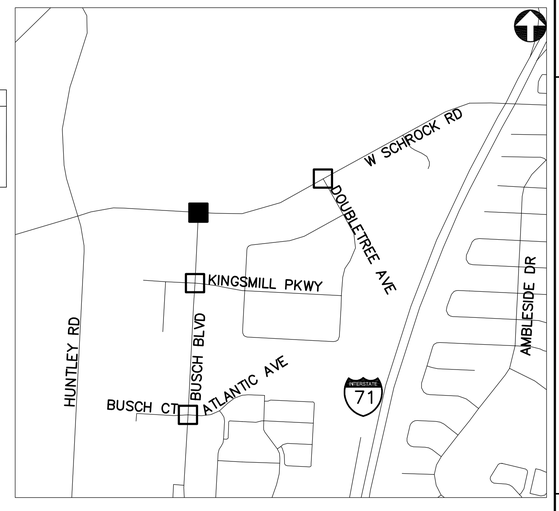
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BUSCH BLVD AT SCHROCK RD INTERSECTION N043

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

256
1107

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DOUBLETREE AVE AT SCHROCK RD - N044

INTERSECTION COMMUNICATIONS

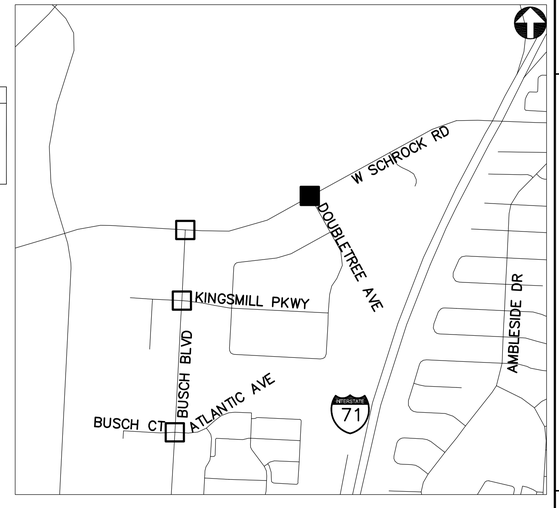
PROPOSED FIBER CABLE SEE SHEET 560 — INT #N044 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 560

NOTES:

1. SEE SHEET 560 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 258 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1031 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DOUBLETREE AVE AT SCHROCK RD INTERSECTION N044

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

257
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	804	804															
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION															
		FROM	TO	FT	FT	EACH	EACH	EACH	FT	EACH															
INTERSECTION N038: BUSCH BLVD. AT SHAPTER AVE.																									
253	IC-1	8+19, 414' LT							75																
253	IC-2	8+19, 414' LT	8+49, 56' LT	364	364				364																
253	IC-3	8+49, 56' LT							35																
253	TC-1	8+49, 56' LT				2	1	1		1															
INTERSECTION N039: DUBLIN GRANVILLE RD. AT FOREST HILLS BLVD.																									
254	IC-1	722+87, 104' RT							75																
254	IC-2	722+87, 104' RT	722+90, 59' RT	45	45				45																
254	IC-3	722+90, 59' RT							35																
254	IC-4	722+90, 59' RT	722+97, 66' RT						20																
254	TC-1	722+97, 66' RT				2	1	1		1															
INTERSECTION N042: BUSCH BLVD. AT KINGSMILL PKWY.																									
255	IC-1	44+12, 53' LT							75																
255	IC-2	44+12, 53' LT	44+51, 55' LT						48																
255	TC-1	44+51, 55' LT				2	1	1		1															
INTERSECTION N043: BUSCH BLVD. AT SCHROCK RD.																									
256	IC-1	53+68, 53' LT							75																
256	IC-2	53+68, 53' LT	53+45, 66' LT						26																
256	IC-3	53+45, 66' LT							35																
256	IC-4	53+45, 66' LT	53+45 ,54' RT						120																
256	IC-5	53+45 ,54' RT							35																
256	IC-6	53+45 ,54' RT	53+53, 61' RT						20																
256	TC-1	53+53, 61' RT				2	1	1		1															
256	PULL BOX SLACK								10																
INTERSECTION N044: DOUBLETREE AVE. AT SCHROCK RD.																									
257	IC-1	66+72, 67' LT							75																
257	IC-2	66+72, 67' LT	66+65, 67' LT						17																
257	TC-1	66+65, 67' LT				2	1	1		1															

144 STRAND
FIBER OPTIC CABLE AND
24 STRAND FIBER OPTIC
DROP CABLE TO CCTV SITE

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

AEP 1866128 767273

AEP 1866217 767267

AEP 1866357 767258

IC-1

IC-2

IC-3

IC-4

TC-1

PC

SP

CB

96+00

97+00

98+00

99+00

WEST SCHROCK RD

AMBLESIDE DR

ONLY

ONLY

R/W

ICRPL

6"W

8"W

12"SD

15"SD

36"W

INTERSECTION COMMUNICATIONS

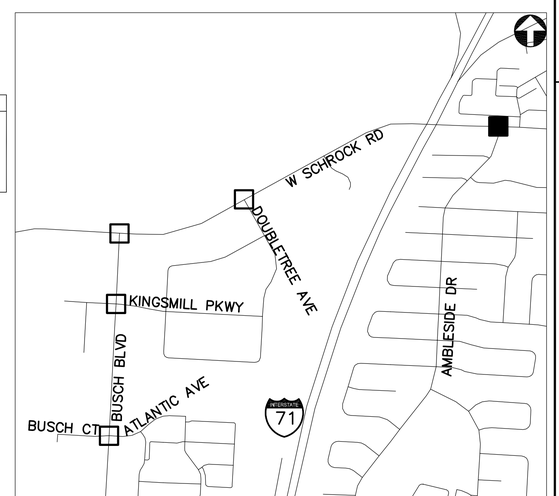
PROPOSED FIBER CABLE SEE SHEET 561 — INT #N045 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 562

NOTES:

1. SEE SHEETS 561 AND 562 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 264 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1032 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. FOR CONNECTED CCTV SITE SEE SHEET 561

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



KEY PLAN
NOT TO SCALE

AMBLESIDE DR AT SCHROCK RD - N045

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

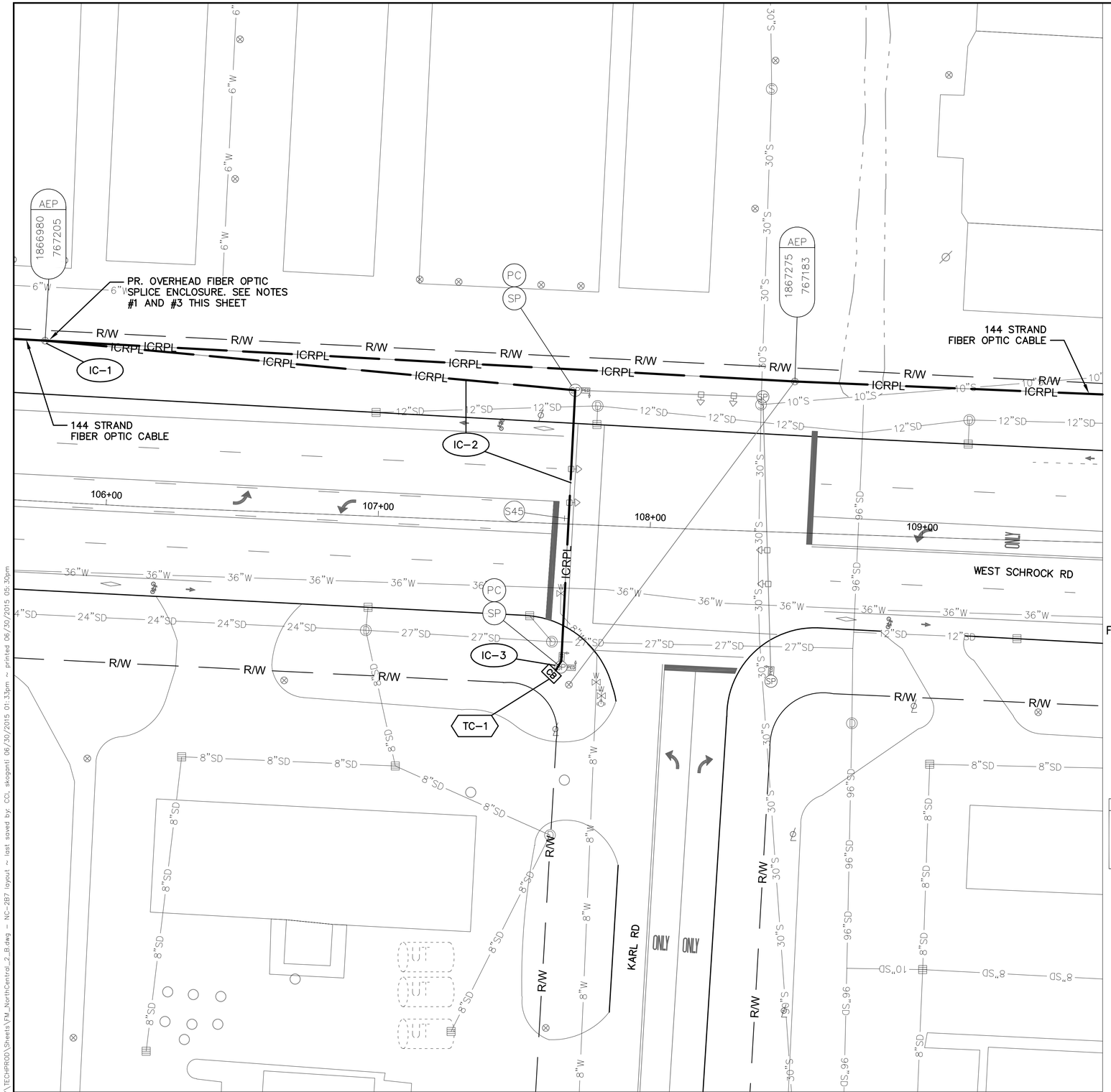
PID NUMBER 13034

AMBLESIDE DR AT SCHROCK RD
INTERSECTION N045

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

259
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 562 — INT #N047 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 562

NOTES:

1. SEE SHEET 562 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 264 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1034 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

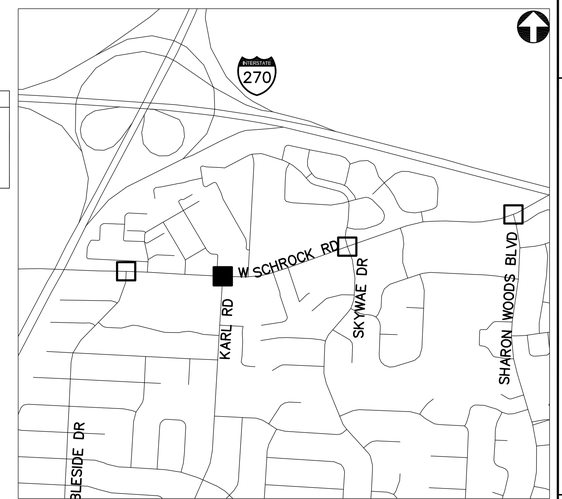
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

KARL RD AT SCHROCK RD - N047

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

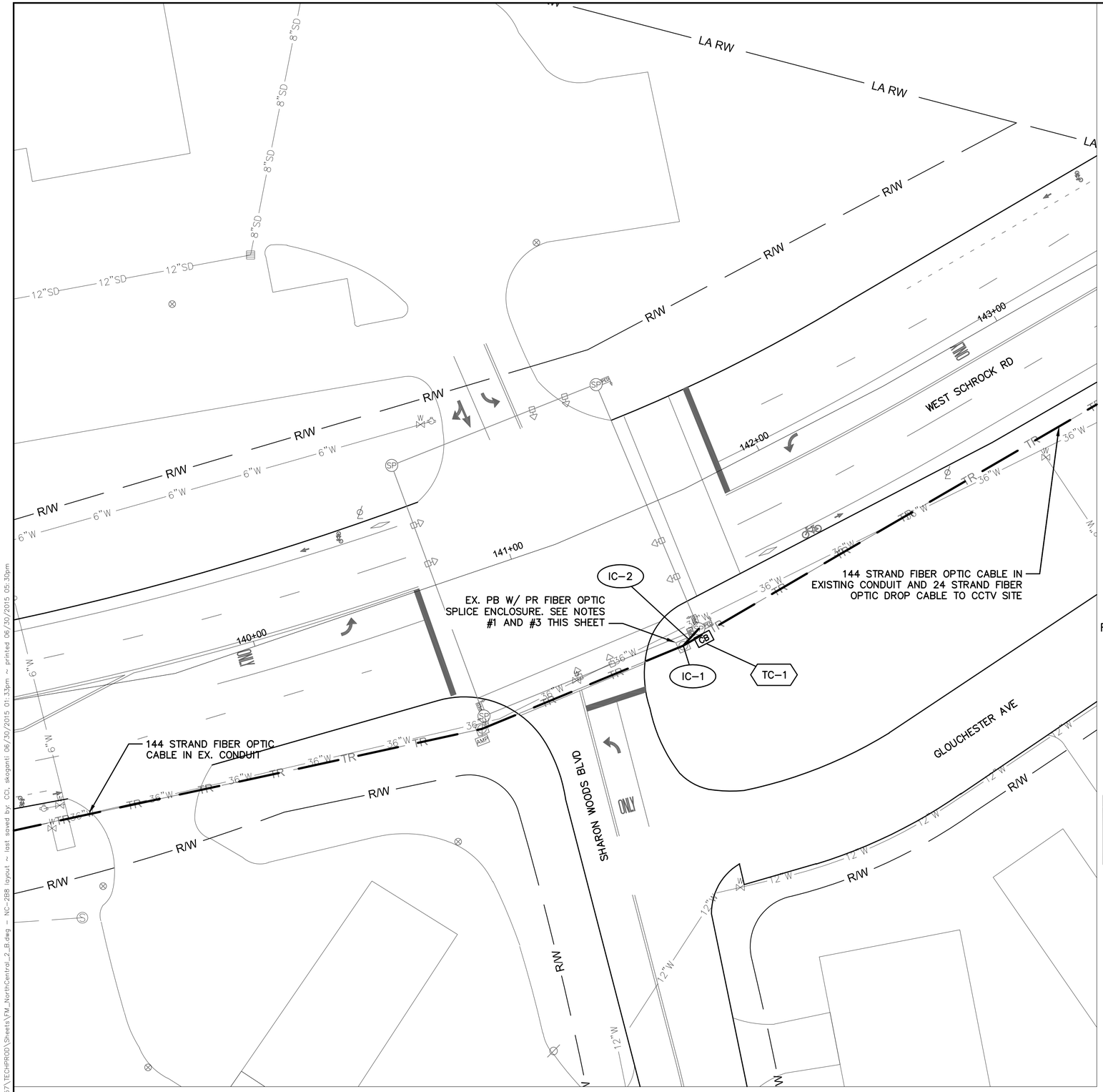
PID NUMBER 13034

KARL RD AT SCHROCK RD
INTERSECTION N047

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

260
1107

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SCHROCK RD AT SHARON WOODS BLVD - N048

INTERSECTION COMMUNICATIONS

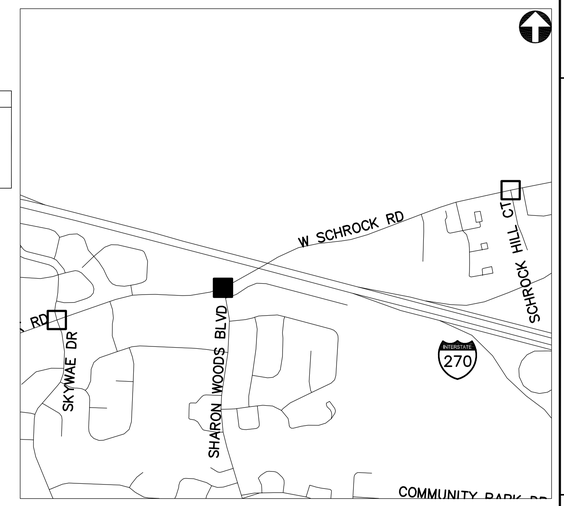
PROPOSED FIBER CABLE SEE SHEET 563 — INT #N048 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 564

NOTES:

1. SEE SHEETS 563 AND 564 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 264 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1035 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. FOR CONNECTED CCTV SITE SEE SHEET 564

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

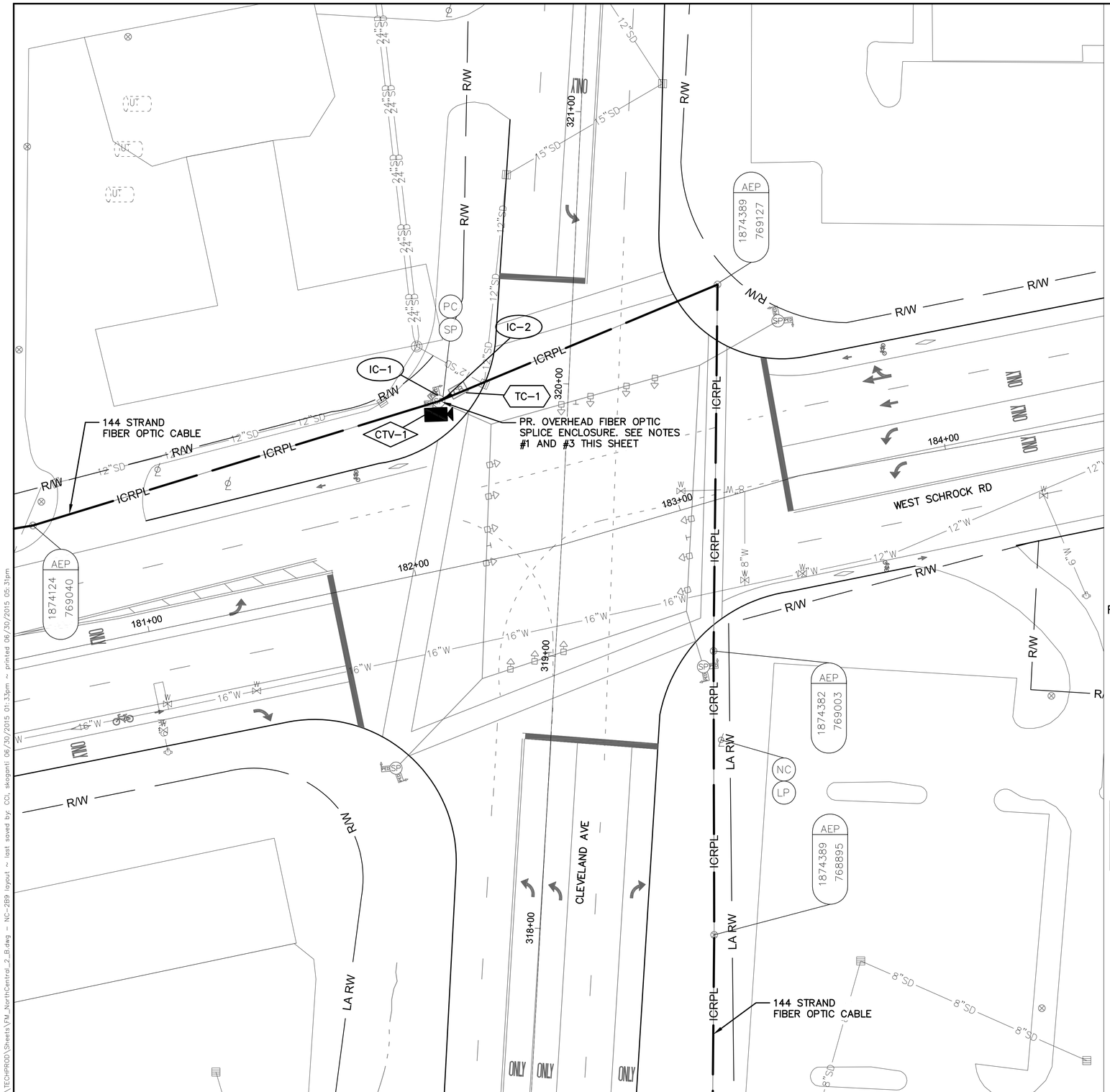
PID NUMBER 13034

SCHROCK RD AT SHARON WOODS BLVD INTERSECTION

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

261
1107

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INTERSECTION COMMUNICATIONS

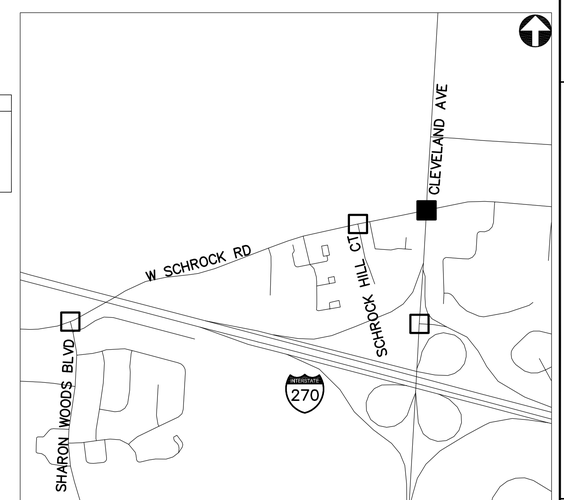
PROPOSED FIBER CABLE SEE SHEET 565 — INT #N049 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 566

NOTES:

1. SEE SHEETS 565 AND 566 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 264 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1036 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP–CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT SCHROCK RD - N049

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

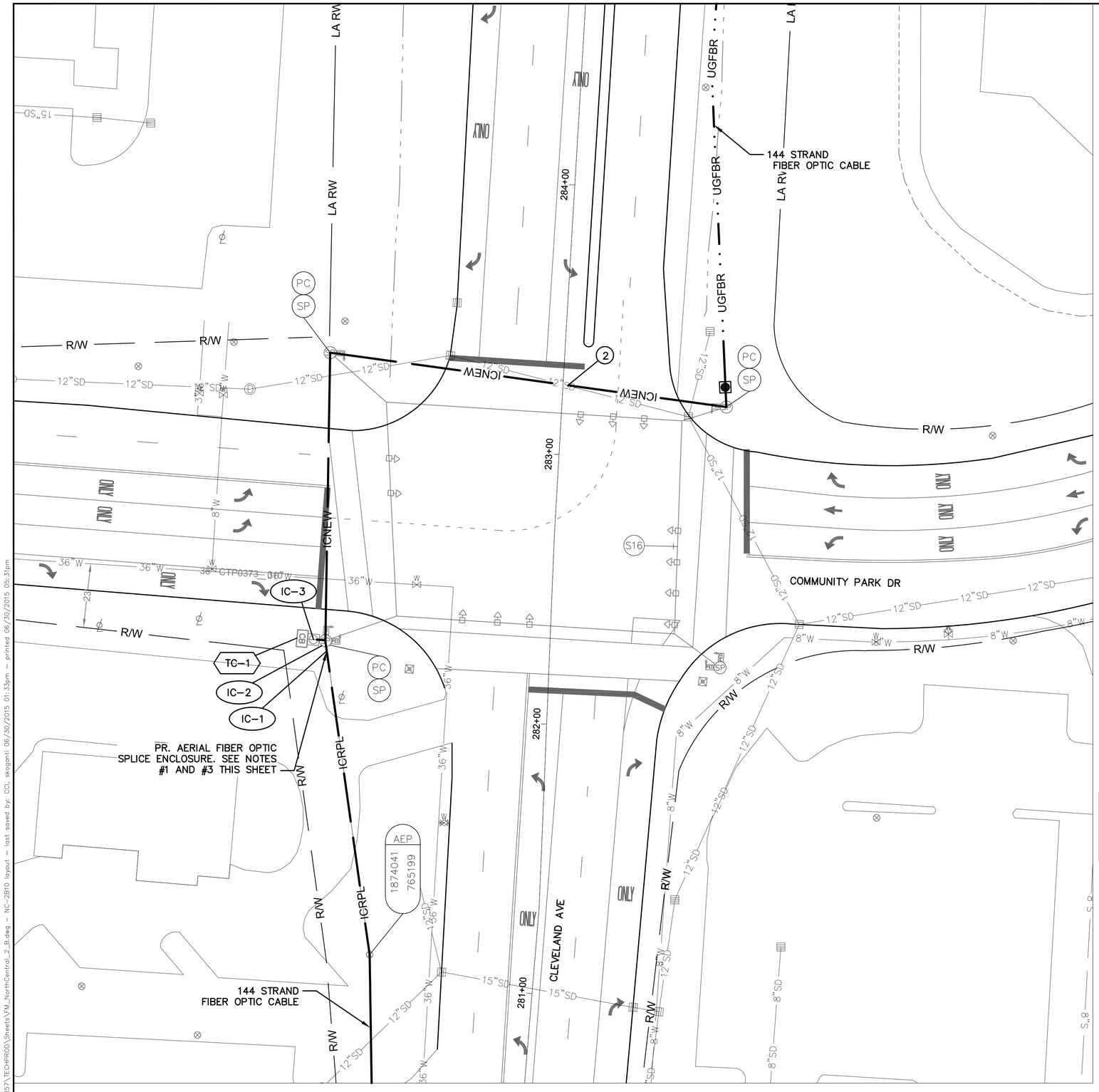
PID NUMBER 13034

CLEVELAND AVE AT SCHROCK RD
INTERSECTION N049

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

262
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 599

INT #N050 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 599

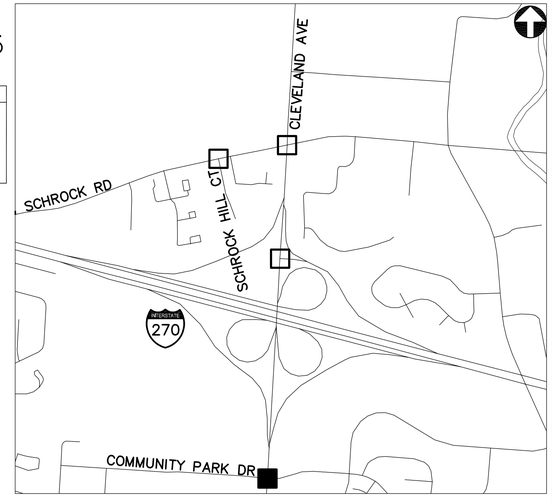
NOTES:

1. SEE SHEET 599 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 264 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1037 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT COMMUNITY PARK - N050

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT COMMUNITY PARK INTERSECTION N050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

263
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	632	633	633	633	633	633	804	804													
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION												
		FROM	TO	FT	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH													
INTERSECTION N045: AMBLESIDE DR. AT SCHROCK RD.																									
259	IC-1	97+92, 57' LT									75														
259	IC-2	97+92, 57' LT	97+87, 53' RT	111		111					111														
259	IC-3	97+87, 53' RT									35														
259	IC-4	97+87, 53' RT	97+99, 53' RT								23														
259	TC-1	97+99, 53' RT					2	1		1		1													
INTERSECTION N047: KARL RD. AT SCHROCK RD.																									
260	IC-1	105+75, 59' LT									75														
260	IC-2	105+75, 59' LT	107+69, 53' RT	297		297					297														
260	IC-3	107+69, 53' RT									35														
260	TC-1	107+69, 53' RT					2	1		1		1													
INTERSECTION N048: SCHROCK RD. AT SHARON WOODS BLVD.																									
261	IC-1	141+46, 53' RT									75														
261	IC-2	141+46, 53' RT	141+53, 50' RT								28														
261	TC-1	141+53, 50' RT					2	1		1		1													
INTERSECTION N049: CLEVELAND AVE. AT SCHROCK RD.																									
262	IC-1	182+21, 61' LT									110														
262	IC-2	182+21, 61' LT	182+29, 63' LT								18														
262	CTV-1	182+21, 61' LT			1																				
262	TC-1	182+29, 63' LT					2	1	1			1													
INTERSECTION N050: CLEVELAND AVE. AT COMMUNITY PARK DR.																									
263	IC-1	282+28, 88' LT									75														
263	IC-2	282+28, 88' LT	282+28, 92' LT								14														
263	TC-1	282+28, 92' LT					2	1	1			1													

144 STRAND FIBER OPTIC CABLE

AEP 1874030 765033

AEP 1874028 764995

AEP 1874017 764828

NC

SP

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

IC-3

IC-4

TC-1

PC

SP

144 STRAND FIBER OPTIC CABLE

CORPORATE EXCHANGE DR

CLEVELAND AVE

ONLY

279+00

278+00

277+00

276+00

R/W

IGRPL

36"W

8"W

10"SD

12"SD

15"SD

18"SD

24"SD

8"SD

8"S

CLEVELAND AVE AT CORPORATE EXCHANGE DR - N051

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 599

INT #N051 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 599

NOTES:

1. SEE SHEET 599 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 269 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1038 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

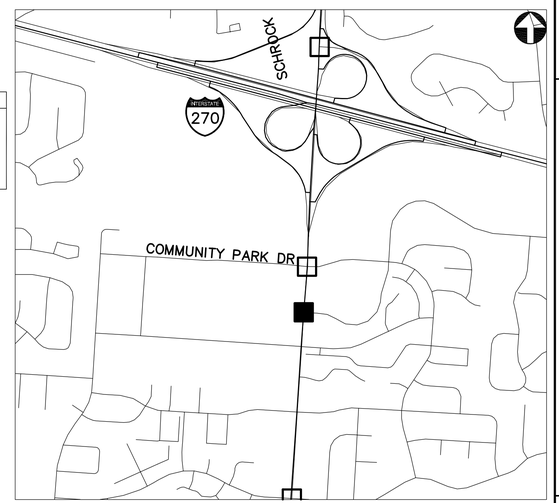
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

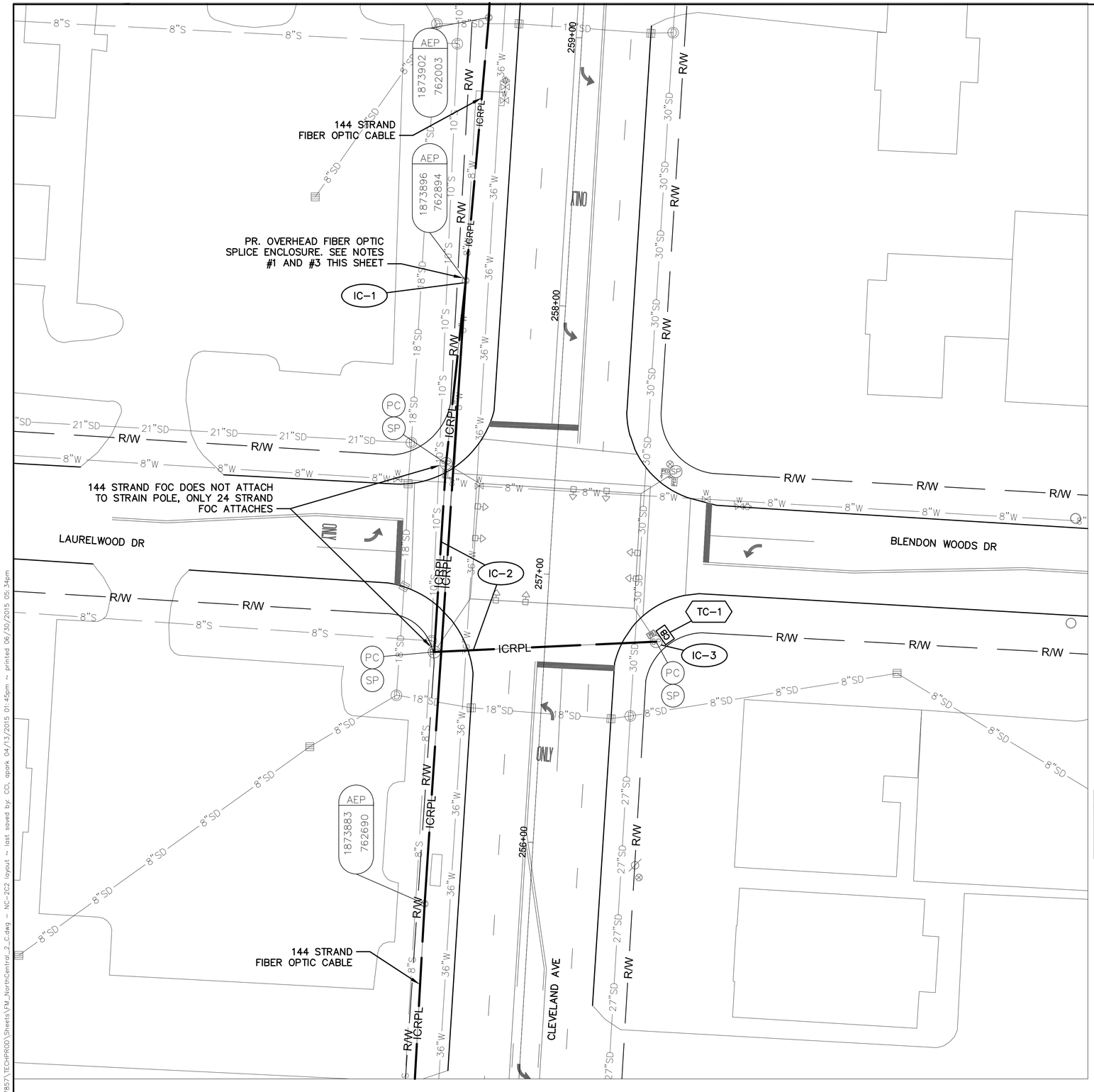
PID NUMBER 13034

CLEVELAND AVE AT CORPORATE EXCHANGE DR INTERSECTION N051

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

265
1107

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BLENDON WOODS DR AND LAURELWOOD DR AT CLEVELAND AVE - N052

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 598

INT #N052 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 598

NOTES:

1. SEE SHEET 598 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 269 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1039 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

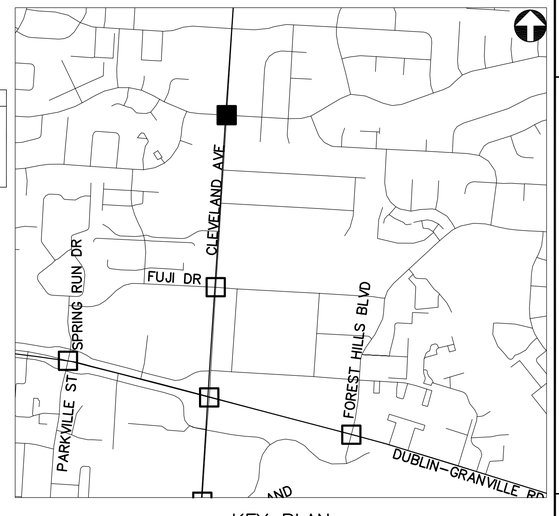
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BLENDON WOODS DR AND LAURELWOOD DR AT CLEVELAND AVE INTERSECTION N052

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

266
1107

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144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1
IC-2
IC-3
IC-4
TC-1
EX. PB, TRF

AEP 1873773 761025
AEP 1873765 760923
AEP 1873835 760765
AEP 1873753 760745

FUJI DR
COLUMBUS SQ
CLEVELAND AVE

240+00
239+00
238+00
237+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 597

INT #N053 WITH PROPOSED SIGNAL CONTROLLER

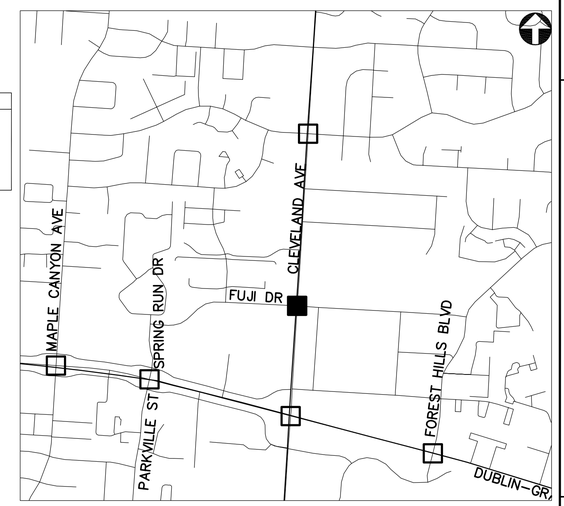
PROPOSED FIBER CABLE SEE SHEET 597

NOTES:

1. SEE SHEET 597 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 269 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1040 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT COLUMBUS SQ AND FUJI DR - N053

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

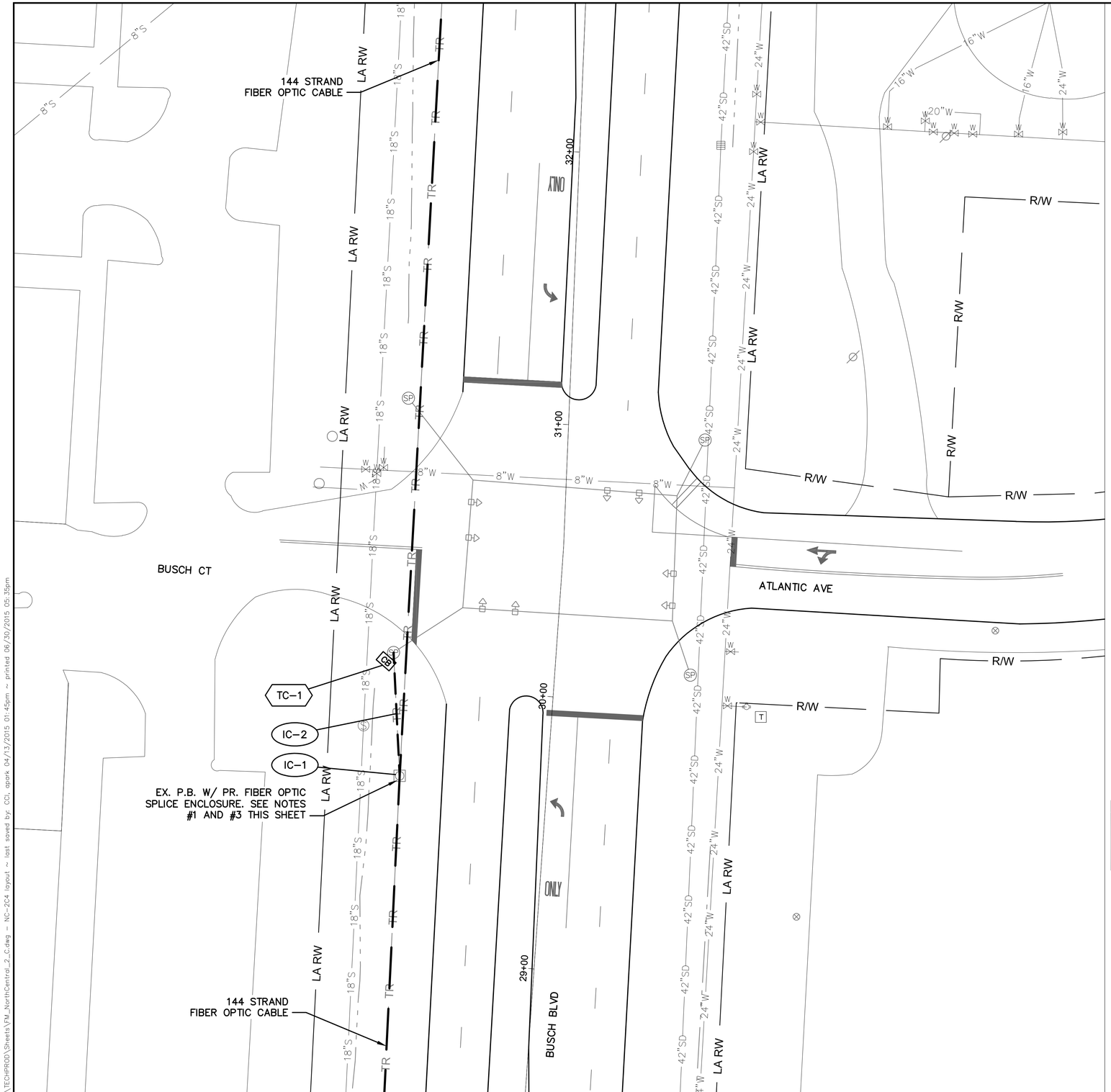
PID NUMBER 13034

CLEVELAND AVE AT COLUMBUS SQ AND FUJI DR
INTERSECTION N053

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

267
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 558

INT #N054 WITH PROPOSED SIGNAL CONTROLLER

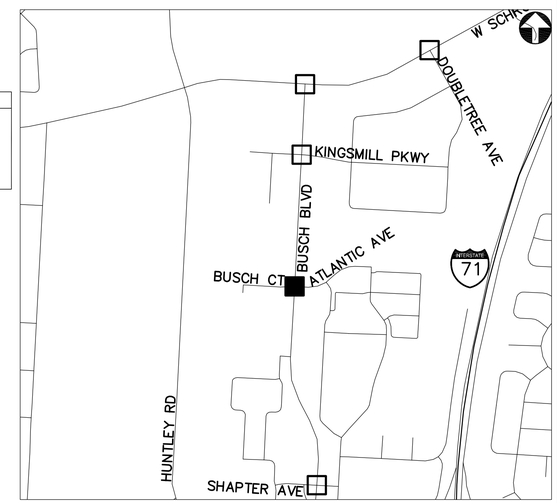
PROPOSED FIBER CABLE SEE SHEET 558

NOTES:

1. SEE SHEET 558 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 269 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1041 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

ATLANTIC AVE AT BUSCH BLVD - N054

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

ATLANTIC AVE AT BUSCH BLVD
INTERSECTION N054

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

268
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)
INTERSECTION N051: CLEVELAND AVE. AT CORPORATE EXCHANGE DR.											
265	IC-1	277+35, 40' LT								75	
265	IC-2	277+35, 40' LT	277+28, 36' LT	8					8	8	
265	IC-3	277+28, 36' LT								35	
265	IC-4	277+28, 36' LT	277+19, 36' LT							19	
265	TC-1	277+19, 36' LT			2	1	1				1
265	PULL BOX SLACK									10	
INT. N052: BLENDON WOODS DR.& LAURELWOOD DR. AT CLEVELAND AVE.											
266	IC-1	258+07, 38' LT								75	
266	IC-2	258+07, 38' LT	256+77, 41' RT	221					221	221	
266	IC-3	256+77, 41' RT								35	
266	TC-1	256+77, 41' RT			2	1		1			1
INTERSECTION N053: CLEVELAND AVE. AT COLUMBUS SQUARE DR. & FUJI DR.											
267	IC-1	237+55, 35' LT								75	
267	IC-2	237+55, 35' LT	237+74, 40' LT	20					20	20	
267	IC-3	237+74, 40' LT								35	
267	IC-4	237+74, 40' LT	237+64, 40' LT							20	
267	TC-1	237+64, 40' LT			2	1		1			1
267	PULL BOX SLACK									10	
INTERSECTION N054: ATLANTIC AVE. AT BUSCH BLVD.											
268	IC-1	29+67, 54' LT								75	
268	IC-2	29+67, 54' LT	30+12, 59' LT							125	
268	TC-1	30+12, 59' LT			2	1		1			1
		SHEET TOTAL		249	8	4	1	3	249	838	4

2762 DR. E

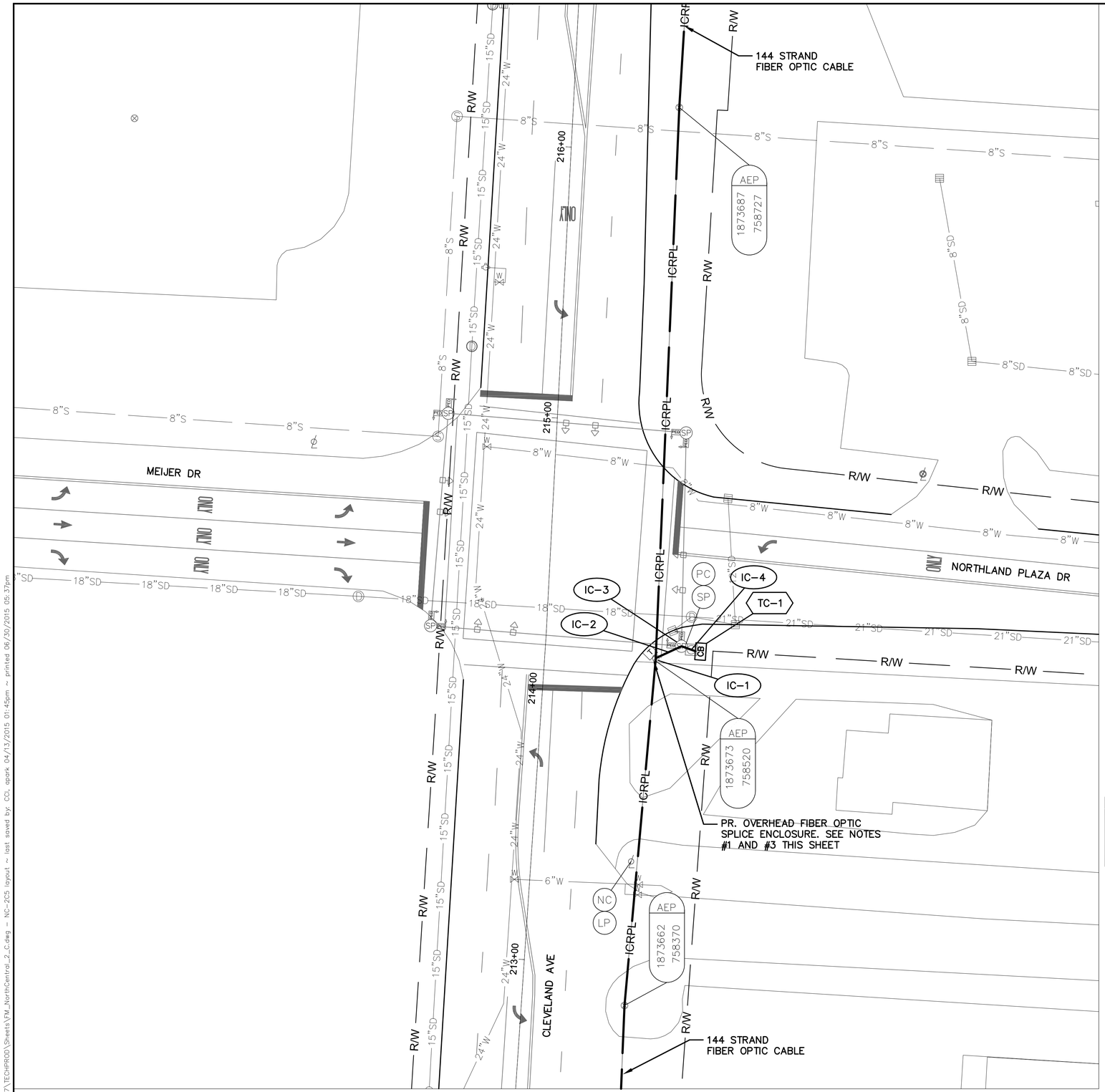
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS N051, N052, N053 AND N054

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

269
1107

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CLEVELAND AVE AT MEIJER DR AND NORTHLAND PLAZA DR - N055

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 596

INT #N055 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 596

NOTES:

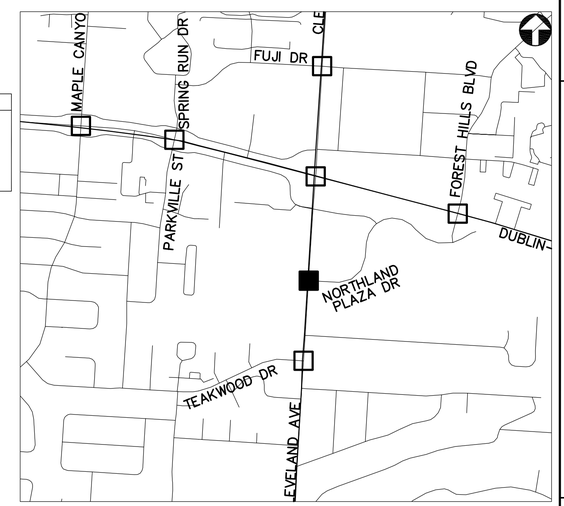
1. SEE SHEET 596 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 274 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1042 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 40 80

PID NUMBER 13034

CLEVELAND AVE AT MEIJER DR AND NORTHLAND PLAZA DR INTERSECTION N055

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

270
1107

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144 STRAND FIBER OPTIC CABLE AND 24 STRAND FIBER OPTIC DROP CABLE

PR 18" PB, ELECTRIC

PR. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

24 STRAND FIBER OPTIC DROP CABLE

TC-1

ICNEW

UGFBR

LA RW

< I-270 WB OFF RAMP

I-270 WB ON RAMP>

CLEVELAND AVE

308+00

307+00

306+00

305+00

IC

S11

S12

SP

12"S

15"SD

27"SD

30"SD

42"S

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 566

INT #N056 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 566

NOTES:

1. SEE SHEET 566 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 274 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1043 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. SEE SHEET 570 FOR COMMUNICATION NODE #270027.7 DETAILS.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

UNDERGROUND UTILITIES

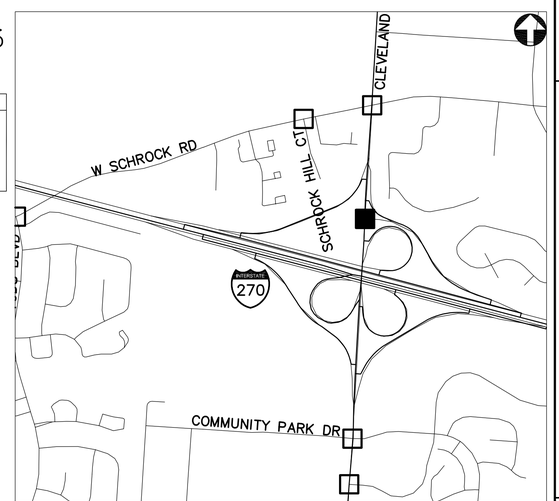
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT I-270 WB RAMPS - N056

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

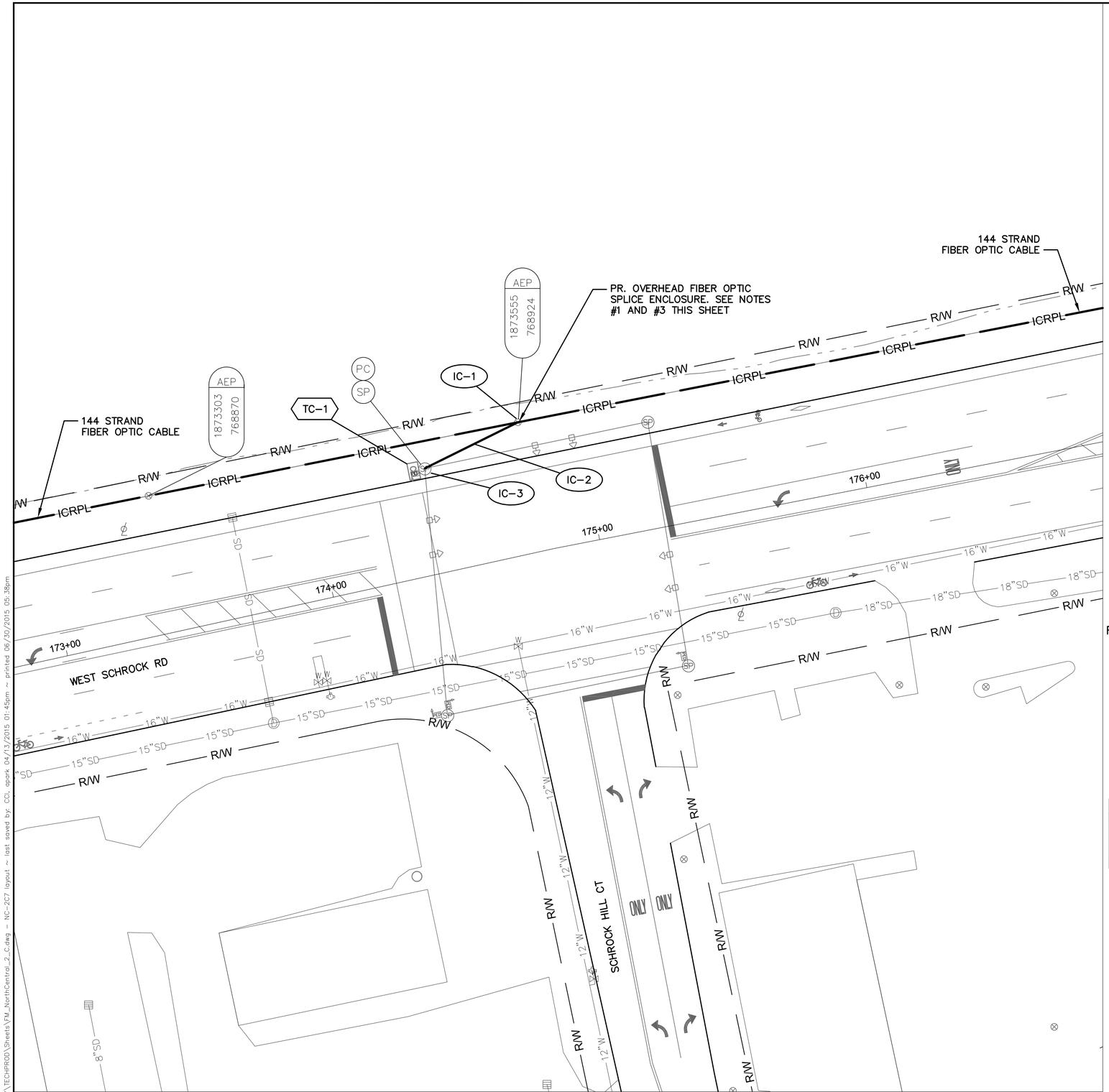
PID NUMBER 13034

CLEVELAND AVE AT I-270 WB RAMPS
INTERSECTION N056

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

271
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 565 — INT #N057 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 565

NOTES:

1. SEE SHEET 565 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 274 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1044 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

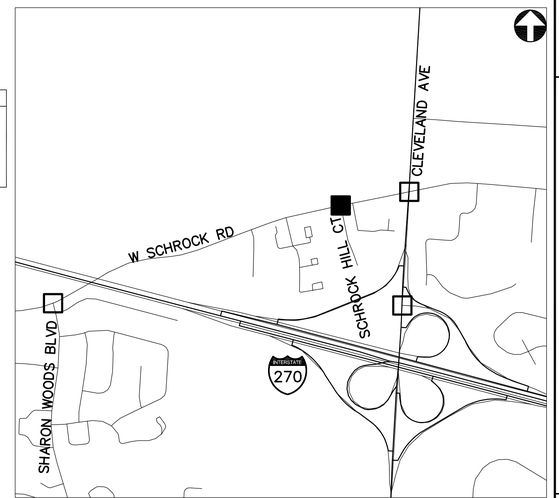
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

SCHROCK HILL CT AT SCHROCK RD - N057

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

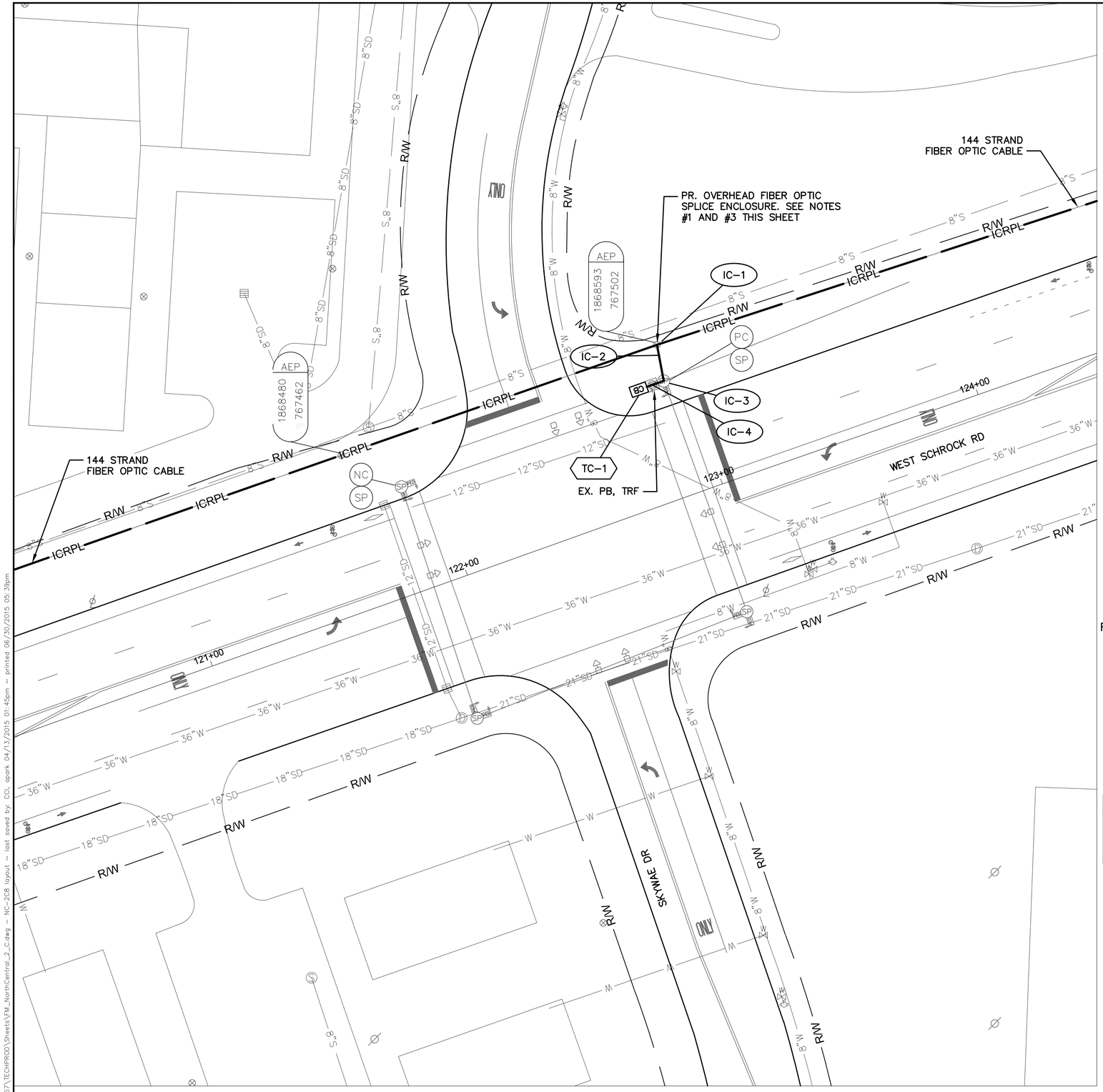
PID NUMBER 13034

SCHROCK HILL CT AT SCHROCK RD
INTERSECTION N057

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

272
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 563 — INT #N059 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 563

NOTES:

1. SEE SHEET 563 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 274 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1046 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

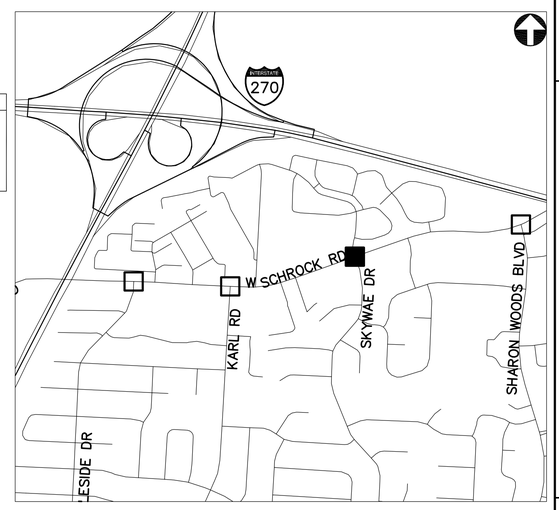
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

SCHROCK RD AT SKYWAE DR - N059

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

SCHROCK RD AT SKYWAE DR
INTERSECTION N059

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

273
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED (FT)	633 INTERCONNECT, MISC.; REMOVE EXISTING OVERHEAD INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)												
INTERSECTION N055: CLEVELAND AVE. AT MEIJER'S & NORTHLAND PL.																										
270	IC-1	214+14, 41' RT									75															
270	IC-2	214+14, 41' RT	214+19, 50' RT	10						10	10															
270	IC-3	214+19, 50' RT									35															
270	IC-4	214+19, 50' RT	214+18, 57' RT								17															
270	TC-1	214+18, 57' RT			2	1		1				1														
270	PULL BOX SLACK										10															
INTERSECTION N056: CLEVELAND AVE. AT I-270 WB OFF RAMPS																										
271	EC-1	307+54, 222' RT	307+51, 230' RT						9																	
271	EC-2	307+51, 230' RT	307+32, 211' RT						27																	
271	EC-3	307+32, 211' RT	307+07, 173' RT						43																	
271	EC-4	307+07, 173' RT	307+07, 58' RT						115																	
271	EC-5	307+07, 58' RT	307+14, 53' RT						18																	
271	TC-1	307+14, 53' RT				1	1																			
271	PULL BOX SLACK								20																	
INTERSECTION N057: SCHROCK RD. AT SCHROCK HILL CT.																										
272	IC-1	174+80, 48' LT									75															
272	IC-2	174+80, 48' LT	174+43, 39' LT	38						38	38															
272	IC-3	174+43, 39' LT									35															
272	TC-1	174+43, 39' LT			2	1	1					1														
INTERSECTION N059: SCHROCK RD. AT SKYWAE DR.																										
273	IC-1	122+95, 57' LT									75															
273	IC-2	122+95, 57' LT	122+92, 43' LT	14						14	14															
273	IC-3	122+92, 43' LT									35															
273	IC-4	122+92, 43' LT	122+83, 43' LT								20															
273	TC-1	122+83, 43' LT			2	1		1				1														
273	PULL BOX SLACK										10															

PR. P.B. INTERCEPTING EX. CONDUIT W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

TC-1

IC-1

IC-2

IC-3

CTV-1

ICNEW

UGFBR

LA RW

R/W

WS R/W

BETHEL RD

OLENTANGY RIVER RD

174+00

175+00

176+00

177+00

41+00

42+00

43+00

44+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 694 — INT #4118 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 694

NOTES:

1. SEE SHEET 694 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 281 FOR INTERSECTION QUANTITIES

3. SEE SHEET 934 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

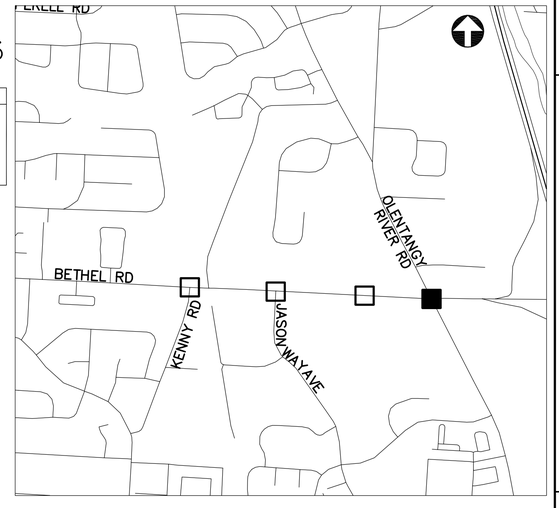
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

BETHEL RD AT OLENTANGY RIVER RD - 4118

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BETHEL RD AT OLENTANGY RIVER RD
INTERSECTION 4118

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

275
1107

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144 STRAND FIBER OPTIC CABLE

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

AEP 1844053 752178

AEP 1844225 752172

AEP 1844305 752167

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

GOWDOWN RD

BETHEL RD

ICNEW

XTNO

ONLY

MERGE

ICOVL

TC-1

IC-1

IC-2

IC-3

CTV-1

84+00

85+00

83+00

82+00

120+00

121+00

122+00

123+00

BETHEL RD AT GODOWN RD - 4120

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 696

PROPOSED FIBER CABLE SEE SHEET 691

INT #4120 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 691

NOTES:

1. SEE SHEETS 691, AND 696 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

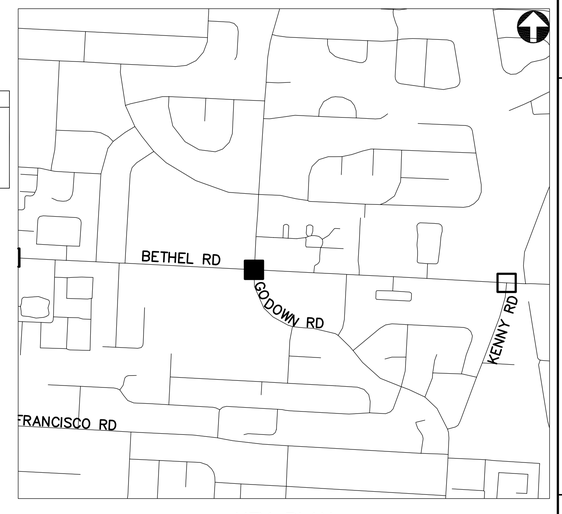
2. SEE SHEET 281 FOR INTERSECTION QUANTITIES

3. SEE SHEET 935 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

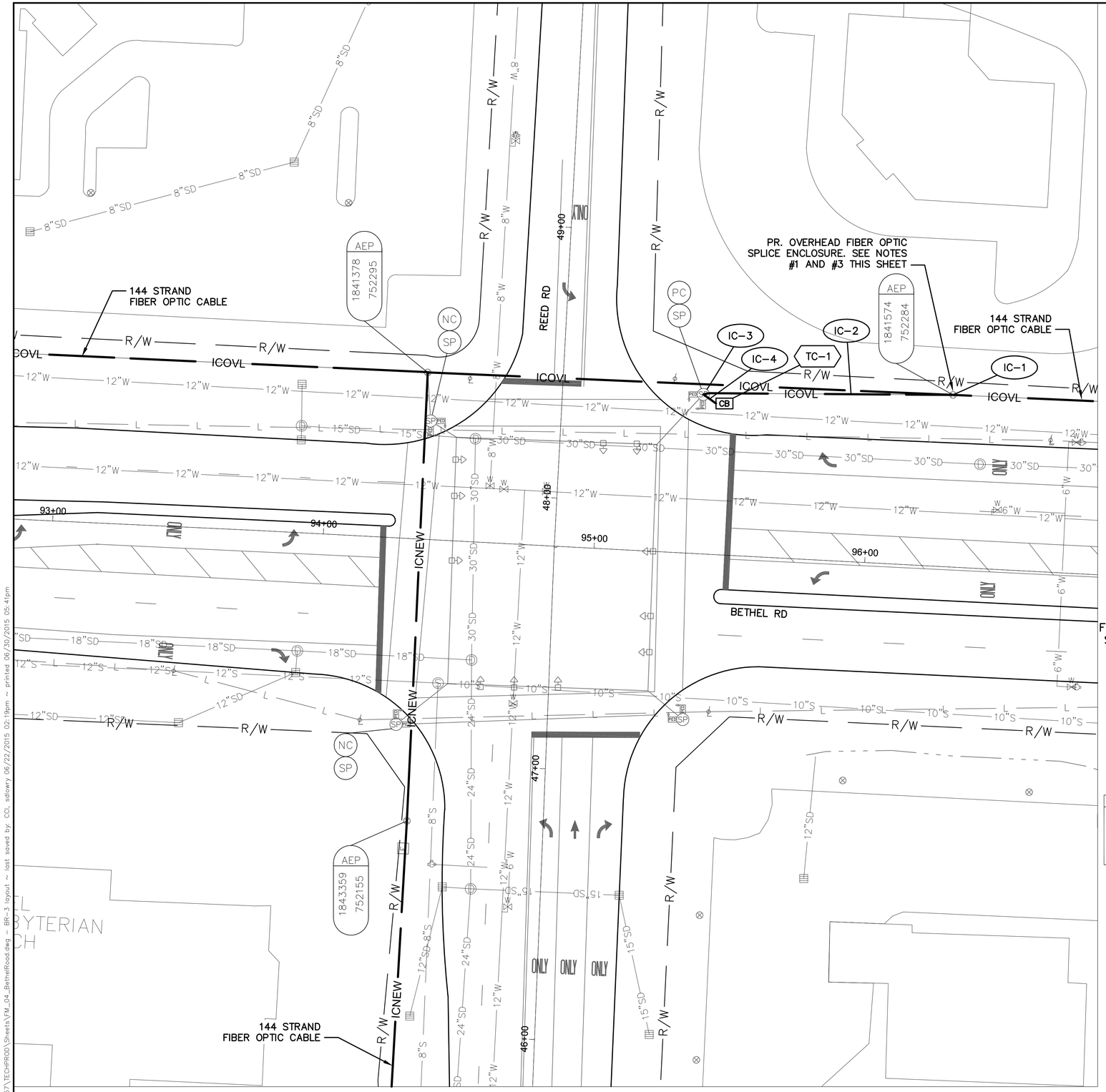
PID NUMBER 13034

BETHEL RD AT GODOWN RD
INTERSECTION 4120

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

276
1107

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BETHEL RD AT REED RD - 4121

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 690 — INT #4121 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 690

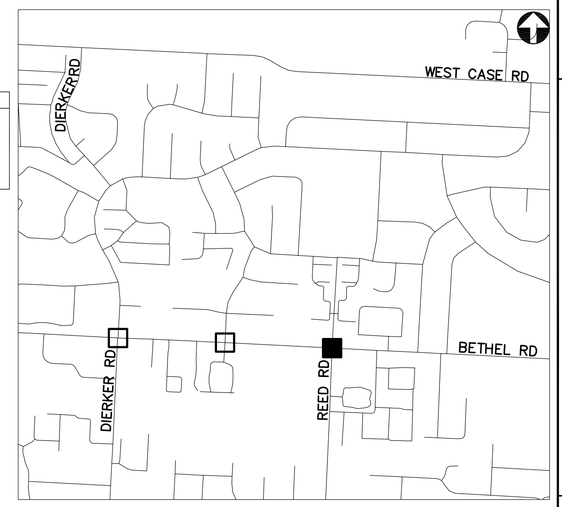
PROPOSED FIBER CABLE SEE SHEET 702

NOTES:

1. SEE SHEETS 690 AND 702 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 281 FOR INTERSECTION QUANTITIES
3. SEE SHEET 936 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

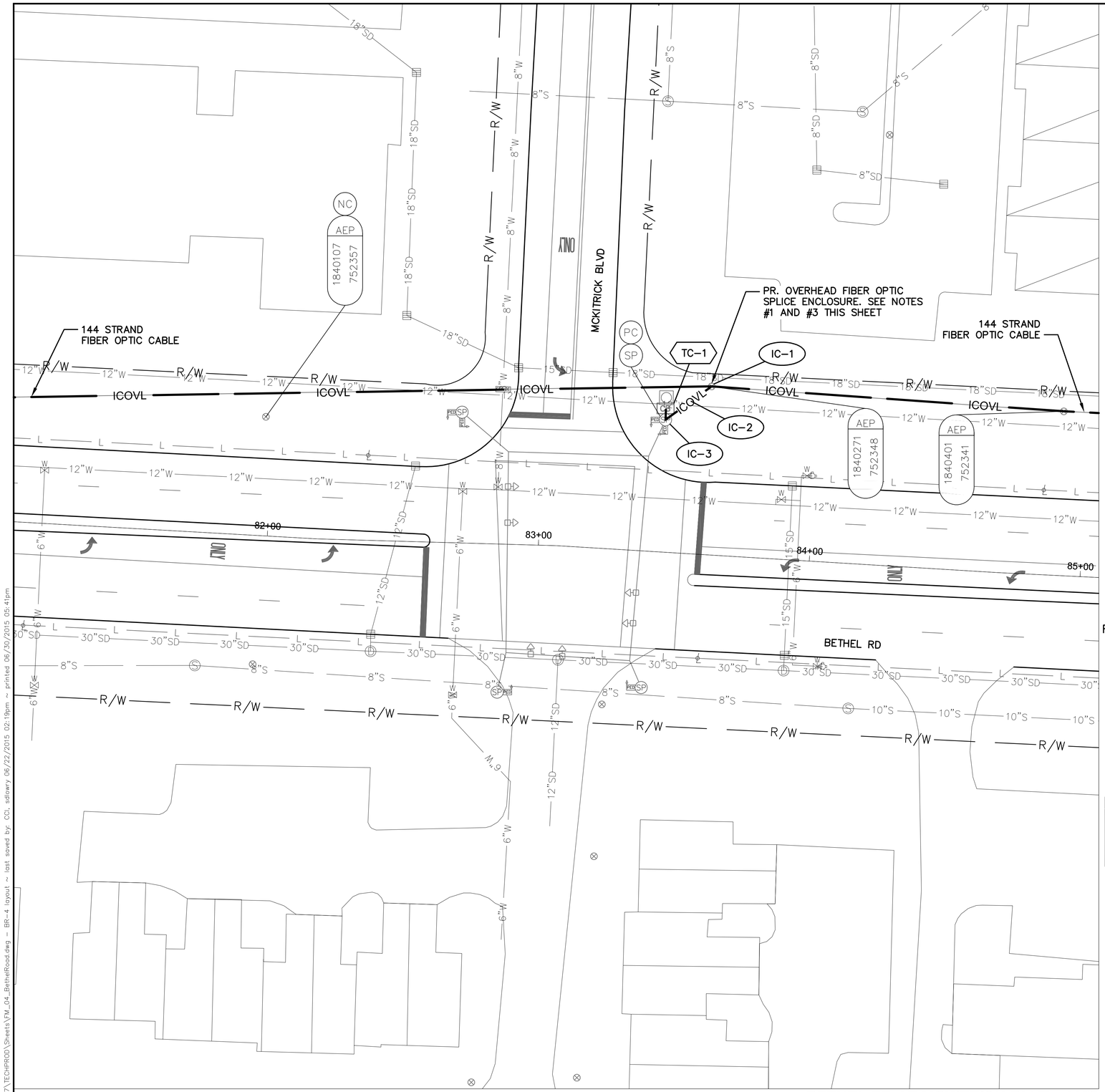
PID NUMBER 13034

BETHEL RD AT REED RD INTERSECTION 4121

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

277
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 690 — INT #4122 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 690

NOTES:

1. SEE SHEET 690 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 281 FOR INTERSECTION QUANTITIES
3. SEE SHEET 937 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

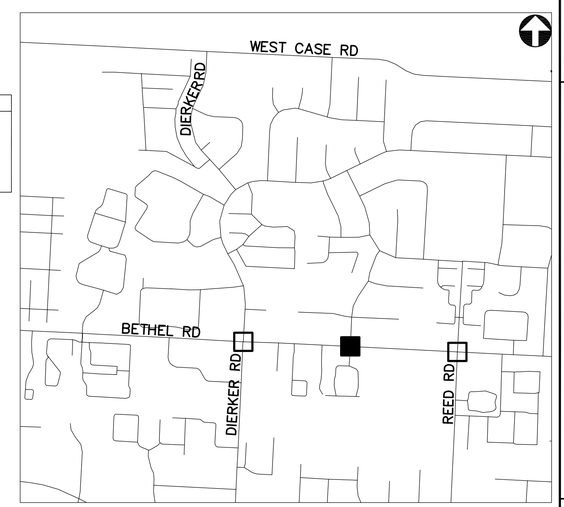
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

BETHEL RD AT MCKITRICK BLVD - 4122

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

BETHEL RD AT MCKITRICK BLVD
INTERSECTION 4122

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

278
1107

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OLENTANGY PLAZA

AEP 1848658 751950

AEP 1848829 751944 NC

144 STRAND FIBER OPTIC CABLE

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1 PC SP

IC-2

IC-3 PC SP

144 STRAND FIBER OPTIC CABLE

CB

TC-1

IC-4

EX. PB, TRF

BETHEL RD

167+00 168+00 169+00 170+00

ONLY

OLENTANGY SQUARE

BETHEL RD AT OLENTANGY PLAZA AND OLENTANGY SQUARE - 4141

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 693 — INT #4141 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 694

NOTES:

1. SEE SHEETS 693 AND 694 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 281 FOR INTERSECTION QUANTITIES
3. SEE SHEET 940 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

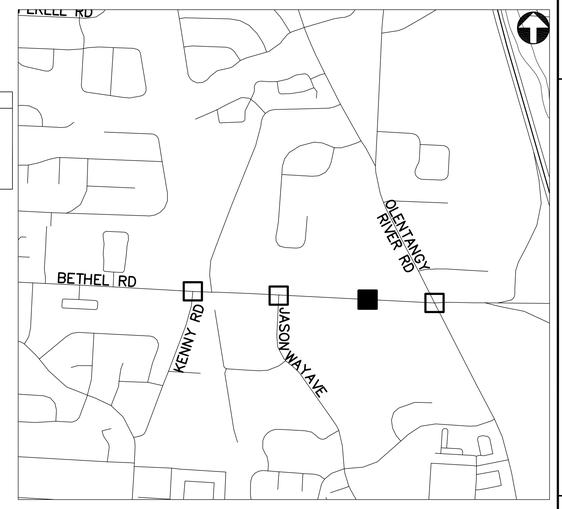
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BETHEL RD AT OLENTANGY PLAZA AND OLENTANGY SQUARE INTERSECTION 4141

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

279
1107

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144 STRAND FIBER OPTIC CABLE

AEP 1846715 752045

AEP 1846811 751045

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

TC-1

IC-2

IC-1

144 STRAND FIBER OPTIC CABLE

BETHEL RD

KENNY RD

148+00

149+00

150+00

151+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 693

INT #4142 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 693

NOTES:

1. SEE SHEET 693 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 281 FOR INTERSECTION QUANTITIES
3. SEE SHEET 941 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

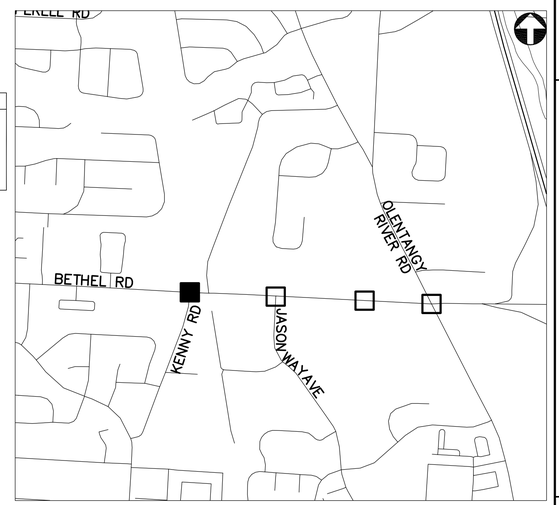
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BETHEL RD AT KENNY RD - 4142

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BETHEL RD AT KENNY RD INTERSECTION 4142

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

280
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	625 BRACKET ARM, 30', AS PER PLAN (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)
INTERSECTION 4118: BETHEL RD. AT OLENTANGY RIVER RD.															
275	IC-1	174+66, 54' LT										75			
275	IC-2	174+66, 54' LT	174+85, 62' LT									51			
275	TC-1	174+85, 62' LT					2	1		1				1	
275	IC-3	174+95, 61' LT	176+72, 51' RT		237										
275	CTV-1	176+72, 51' RT		1		1									
INTERSECTION 4120: BETHEL RD. AT GODOWN RD.															
276	IC-1	121+25, 59' LT											110		
276	IC-2	121+25, 59' LT	121+08, 56' LT										27		
276	TC-1	121+08, 56' LT					3	1	1						
276	IC-3	122+17, 59' LT	122+12, 54' RT		113										1
276	CTV-1	122+12, 54' RT		1		1									
INTERSECTION 4121: BETHEL RD. AT REED DR.															
277	IC-1	96+29, 63' LT											75		
277	IC-2	96+29, 63' LT	95+37, 59' LT								92		92		
277	IC-3	95+37, 59' LT											35		
277	IC-4	95+37, 59' LT	95+45, 56' LT										18		
277	TC-1	95+45, 56' LT					3	1		1					1
INTERSECTION 4122: BETHEL RD. AT MCKITRICK BLVD.															
278	IC-1	83+60, 62' LT										75			
278	IC-2	83+60, 62' LT	83+44, 49' LT								21	21			
278	IC-3	83+44, 49' LT										35			
278	TC-1	83+44, 49' LT					2	1	1					1	
INTERSECTION 4141: BETHEL RD. AT OLENTANGY PLAZA & OLENTANGY SQ.															
279	IC-1	168+25, 64' LT										75			
279	IC-2	168+25, 64' LT	169+40, 63' LT									115			
279	IC-3	169+40, 63' LT										35			
279	IC-4	169+40, 63' LT	169+22, 60' LT									30			
279	TC-1	169+22, 60' LT					2	1		1				1	
279	PULLBOX SLACK											10			
INTERSECTION 4142: BETHEL RD. AT KENNY RD.															
280	IC-1	148+90, 42' LT										110			
280	IC-2	148+90, 42' LT	148+77, 42' LT									23			
280	TC-1	148+77, 42' LT					2	1	1					1	
SHEET TOTAL				2	350	2	14	6	3	3	113	655	357	4	2

2762 DR. E

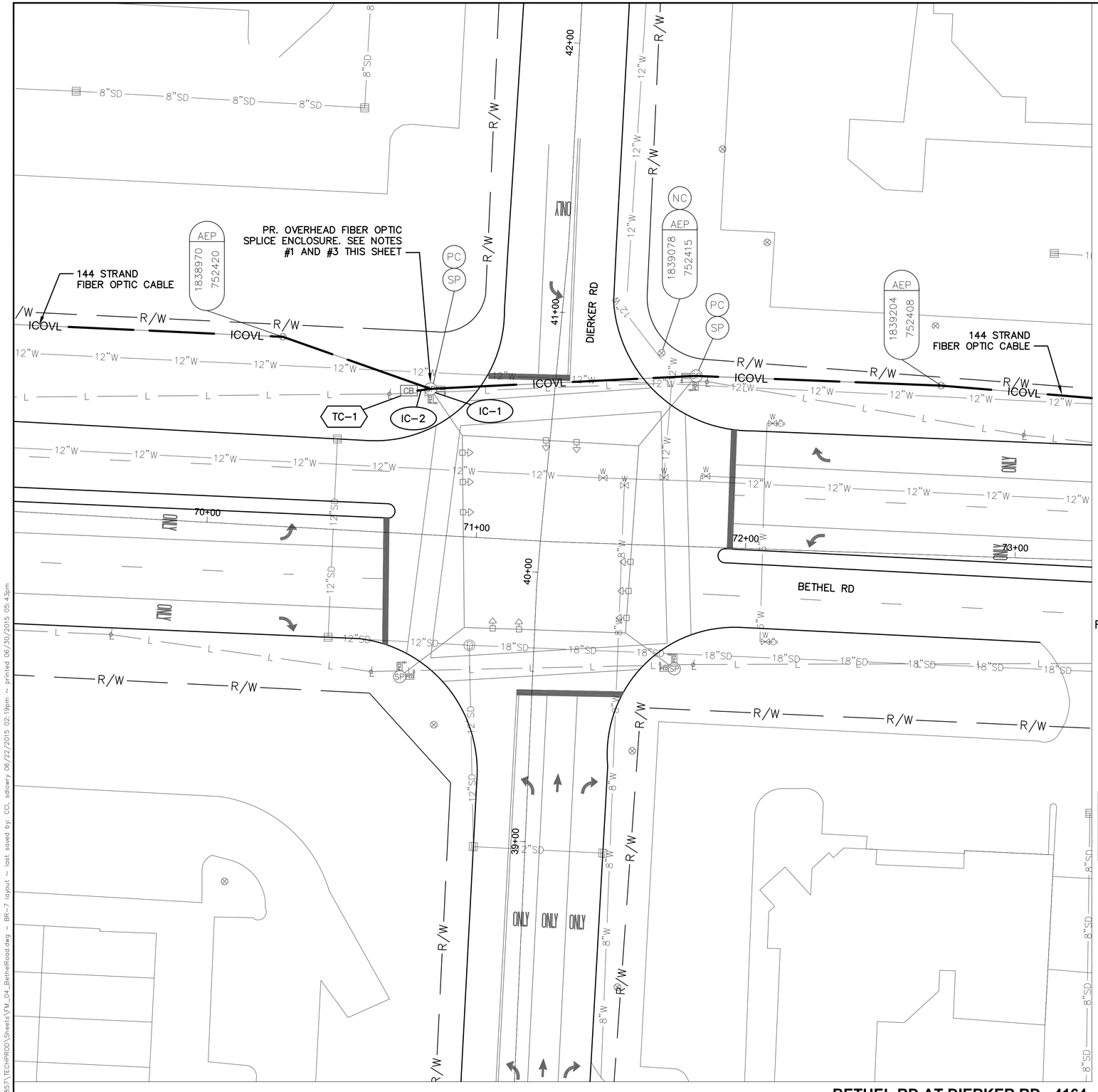
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 4118, 4120, 4121, 4122, 4141 AND 4142

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

281
1107

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INTERSECTION COMMUNICATIONS

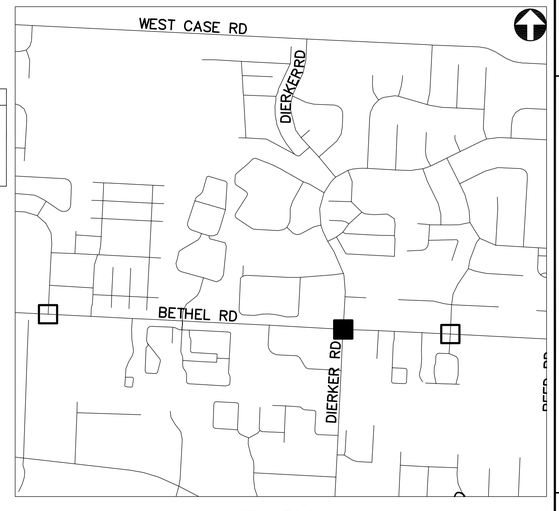
PROPOSED FIBER CABLE SEE SHEET 689 — INT #4164 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 689

NOTES:

1. SEE SHEET 689 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 287 FOR INTERSECTION QUANTITIES
3. SEE SHEET 945 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

BETHEL RD AT DIERKER RD - 4164

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

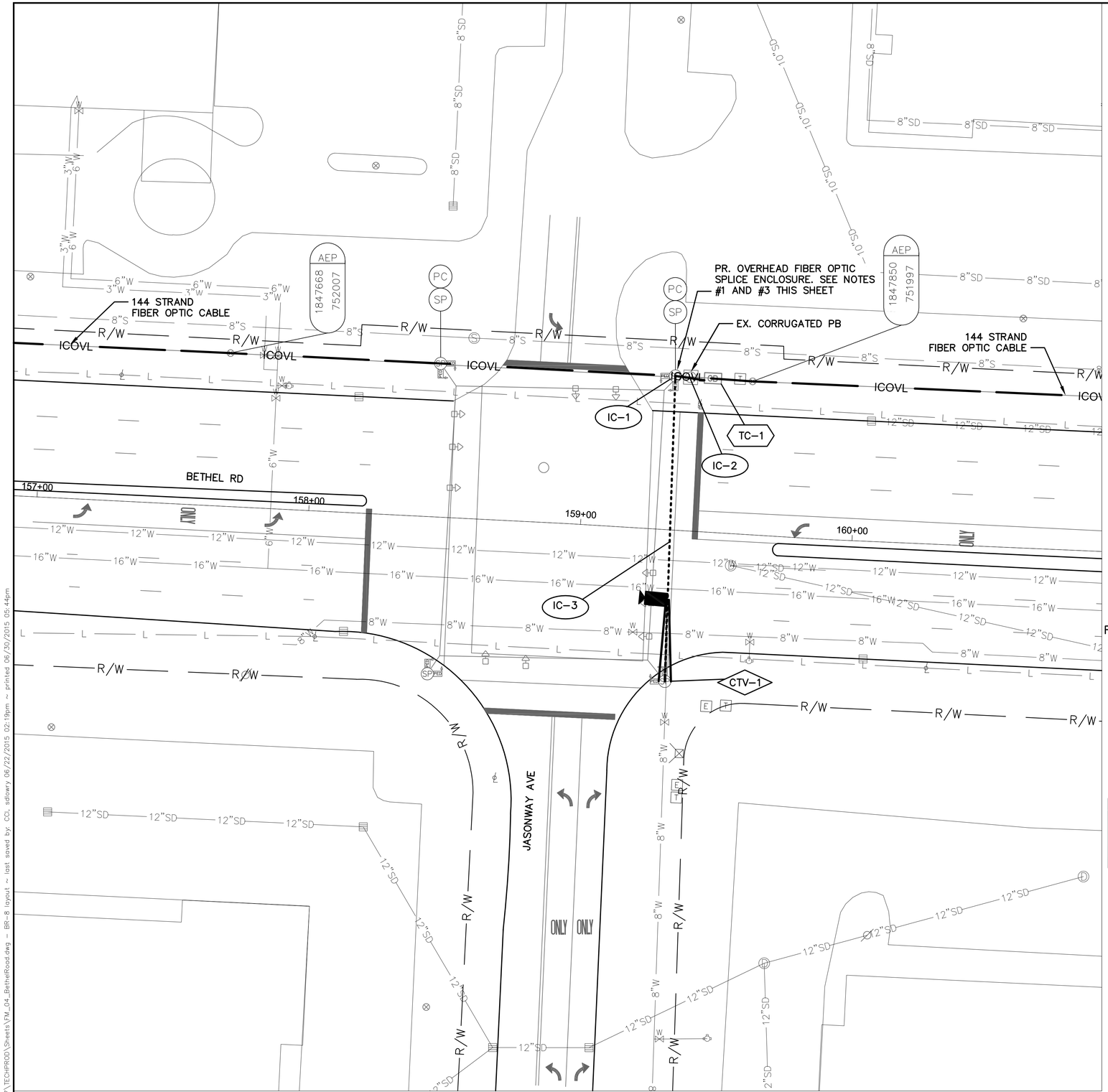
PID NUMBER 13034

BETHEL RD AT DIERKER RD
INTERSECTION 4164

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

282
1107

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BETHEL RD AT JASONWAY AVE - 4192

INTERSECTION COMMUNICATIONS

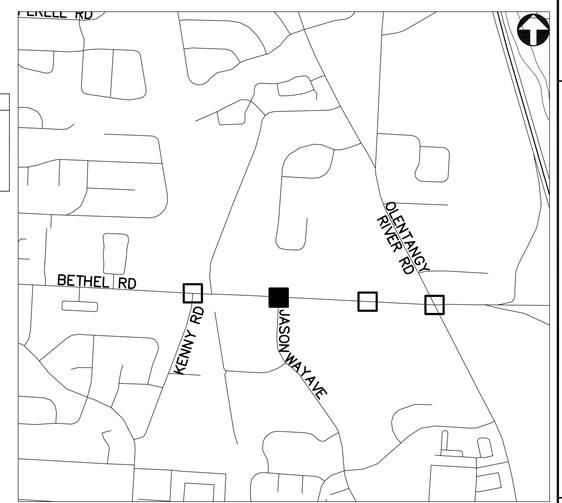
PROPOSED FIBER CABLE SEE SHEET 693 — INT #4192 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 693

NOTES:

1. SEE SHEET 693 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 287 FOR INTERSECTION QUANTITIES
3. SEE SHEET 962 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP–CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

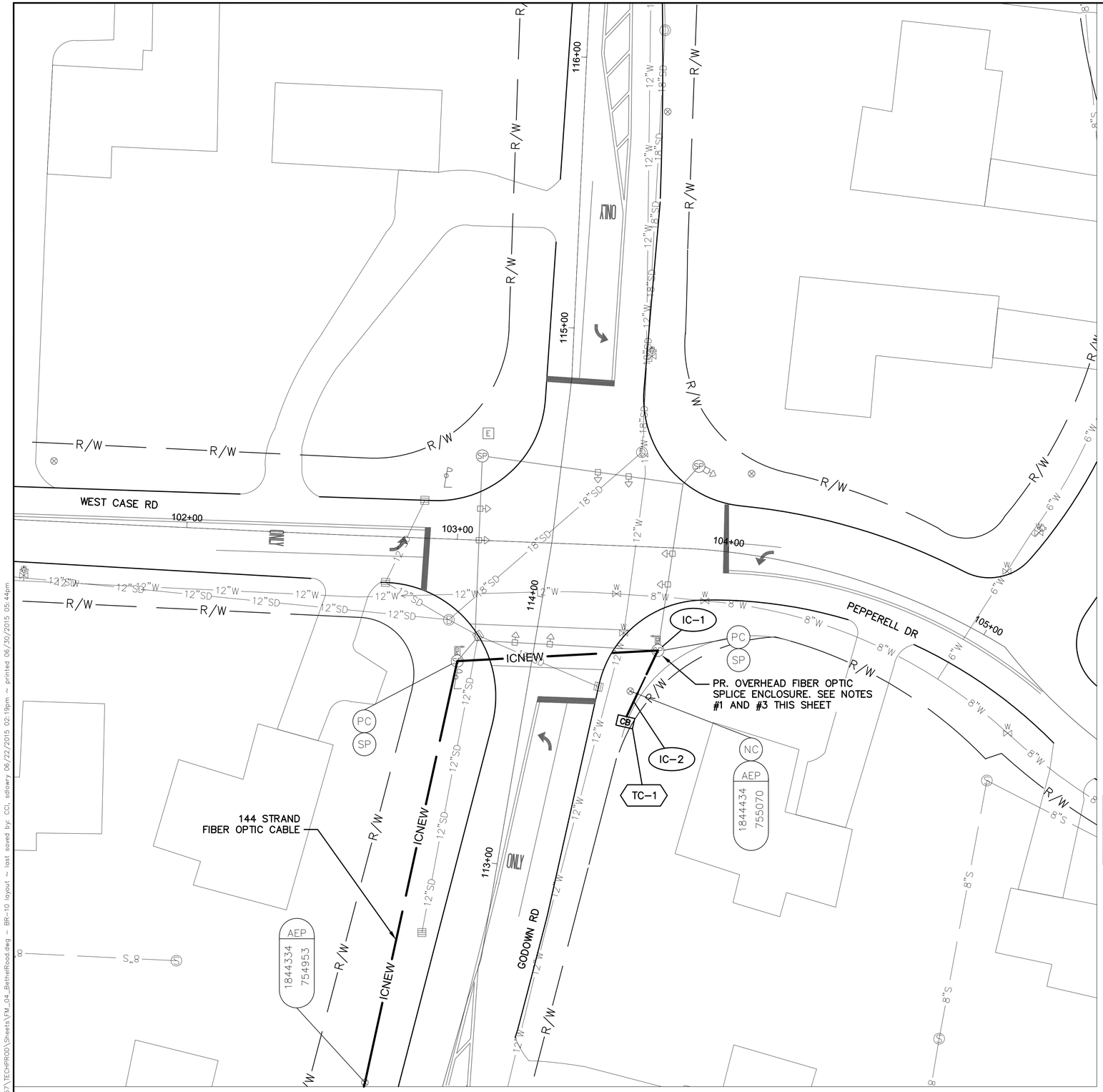
PID NUMBER 13034

BETHEL RD AT JASONWAY AVE INTERSECTION 4192

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

283
1107

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INTERSECTION COMMUNICATIONS

NOTES:

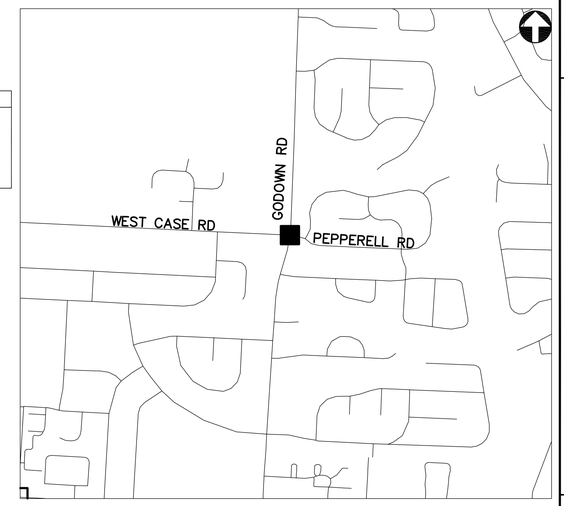
1. SEE SHEET 697 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 287 FOR INTERSECTION QUANTITIES
3. SEE SHEET 981 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

INT #4235 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 697

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

GODOWN RD AT PEPPERELL DR AND WEST CASE RD - 4235

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GODOWN RD AT PEPPERELL DR AND WEST CASE RD
INTERSECTION 4235

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

284
1107

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EX. 32" PB WITH UNDERGROUND FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-4

IC-3

EX. PB, TRF, 32"

IC-2

IC-1

IC-5

IC-6

IC-7

TC-1

144 STRAND FIBER OPTIC CABLE

PR. PB, PWR, 18"

PR. 32" PB WITH UNDERGROUND FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

PR. PB, TRF, 32"

PR. PB, PWR, 18"

PR. PB, TRF, 32"

OHPWR

UGFBR

UGPWR

SR 315 NB ON RAMP 7

SR 315 NB OFF RAMP 7

BETHEL RD

EX. ODOT D-6 TRAFFIC SIGNAL

DOPW(P) UG ST LIGHTING

192+00

193+00

194+00

194+62.28

12"W

15"SD

36"SD

42"SD

30"W

66"S

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 695

INT #BTH315NB WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 695 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS.

2. SEE SHEET 287 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1072 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

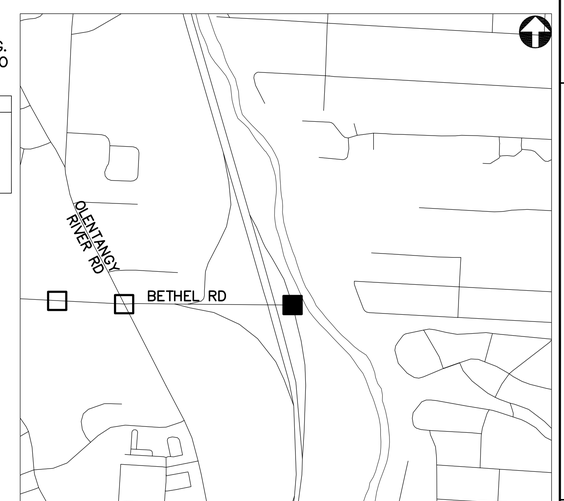
4. SEE SHEET 695 FOR COMMUNICATION NODE #315008.6 DETAILS

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BETHEL RD AT SR-315 NB RAMPS - BTH315NB

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BETHEL RD AT SR-315 NB RAMPS
INTERSECTION BTH315NB

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

285
1107

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144 STRAND FIBER OPTIC CABLE

AEP 1841344 750589

AEP 1841308 750456

IC-1

IC-2

TC-1

IC-3

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

ICNEW

ONLY

31+00

30+00

29+00

28+00

FRANCISCO RD

REED RD

144 STRAND FIBER OPTIC CABLE

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 701

INT #4167 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 701

NOTES:

1. SEE SHEET 701 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 287 FOR INTERSECTION QUANTITIES

3. SEE SHEET 948 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

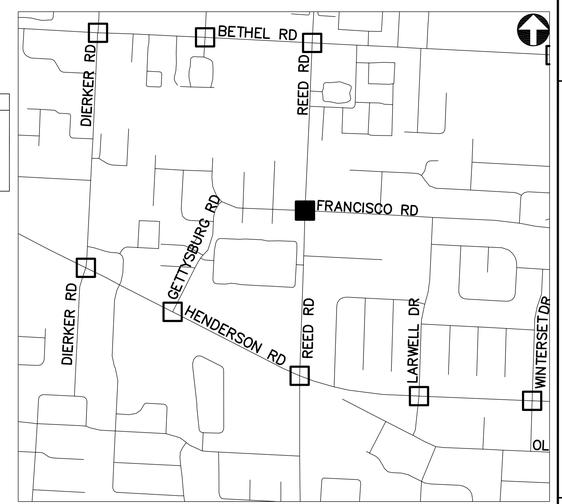
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CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

FRANCISCO RD AT REED RD - 4167

2762 DR. E

HORIZONTAL SCALE IN FEET

PID NUMBER 13034

FRANCISCO RD AT REED RD INTERSECTION 4167

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

286
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		202	625	625	625	625	625	632	632	633	633	633	633	804	804								
				EXISTING CONDUIT CLEANED, APP	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 3", 725.05, AS PER PLAN	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 725.05, 3", AS PER PLAN	PULL BOX, MISC.: CONCRETE, 32"	TRENCH, 36" DEEP, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION								
		FROM	TO	FT	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH								
INTERSECTION 4164: BETHEL RD. AT DIERKER RD.																									
282	IC-1	70+80, 54' LT														110									
282	IC-2	70+80, 54' LT	70+72, 53' LT													18									
282	TC-1	70+72, 53' LT										2	1	1			1								
INTERSECTION 4192: BETHEL RD. AT JASONWAY AVE.																									
283	IC-1	159+32, 57' LT														110									
283	IC-2	159+32, 57' LT	159+45, 57' LT													23									
283	TC-1	159+45, 57' LT										2	1	1			1								
283	IC-3	159+32, 57' LT	159+35, 56' RT							112															
283	CTV-1	159+35, 56' RT			1						1														
INTERSECTION 4235: GODOWN RD. AT PEPPERELL DR. & WEST CASE RD.																									
284	IC-1	103+76, 38' RT														110									
284	IC-2	103+76, 38' RT	103+65, 65' RT													39									
284	TC-1	103+65, 65' RT										1	1		1		1								
INTERSECTION BTH315NB: BETHEL RD. AT SR-315 NB RAMPS																									
285	IC-1	192+93, 102' LT														150									
285	IC-2	192+93, 102' LT	192+74, 145' LT			47			47							47									
285	IC-3	192+74, 145' LT	192+71, 160' LT	15												15									
285	IC-4	192+71, 160' LT														75									
285	IC-5	192+93, 102' LT	193+80, 43' LT			112		2	112							112									
285	IC-6	193+80, 43' LT	194+03, 47' RT				92	1								92									
285	IC-7	194+03, 47' RT	194+22, 47' RT			18			18							28									
285	TC-1	194+22, 47' RT										2	1		1		1								
285	PULL BOX SLACK															40									
INTERSECTION 4167: FRANCISCO AT REED RD.																									
286	IC-1	29+76, 28' LT														75									
286	IC-2	29+76, 28' LT	29+72, 33' LT							6						6									
286	IC-3	29+72, 33' LT														35									
286	TC-1	29+72, 33' LT										2	1	1			1								

144 STRAND
FIBER OPTIC CABLE

DOPW(P) OH ST LIGHTING
& SECONDARY

EX. PB, TRF

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

TC-1
IC-2
IC-1
PC
SP
BC

AEP
1870034
740277

AEP
1869934
740146

NC

OUT
OUT
OUT

ONLY
ONLY
ONLY

CLEVELAND AVE

OAKLAND PARK AVE

24+00
23+00
22+00
21+00

S20
S17
S5
S6
S9

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
587

INT #3154 WITH
EXISTING SIGNAL
CONTROLLER

NOTES:

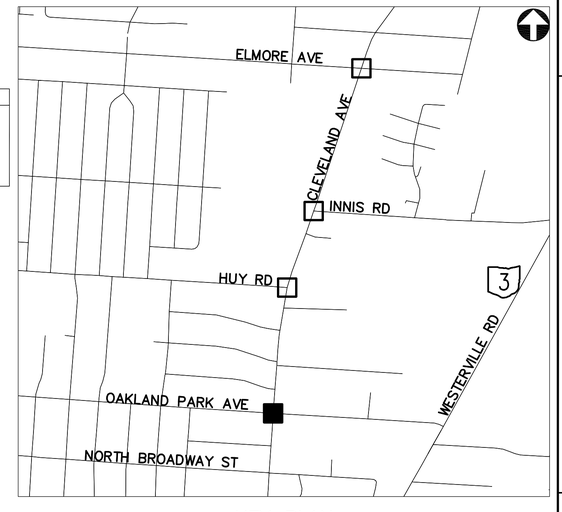
1. SEE SHEET 587 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 293 FOR INTERSECTION QUANTITIES

3. SEE SHEET 890 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT OAKLAND PARK AVE - 3154

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

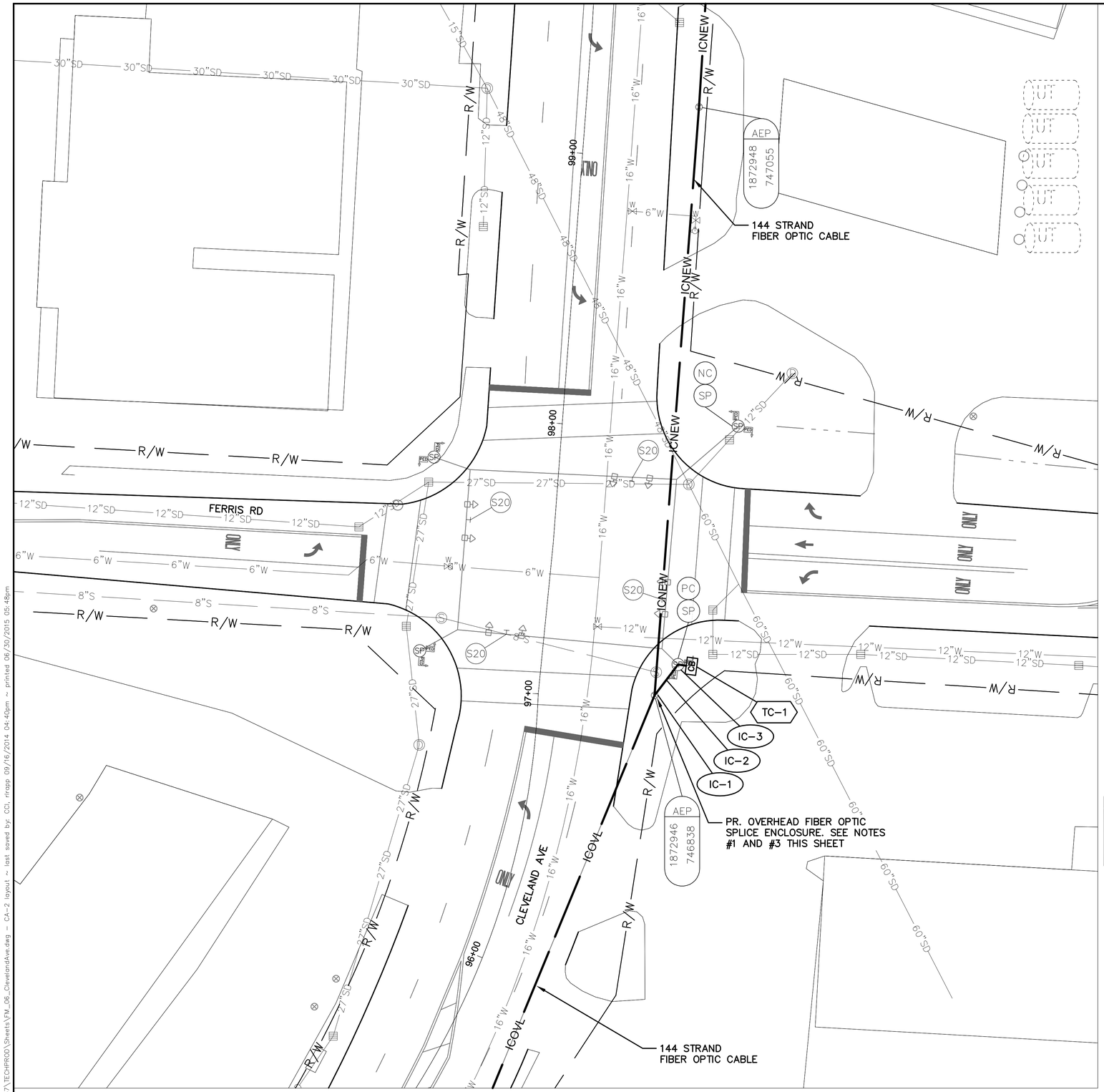
PID NUMBER
13034

CLEVELAND AVE AT OAKLAND PARK AVE
INTERSECTION 3154

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

288
1107

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CLEVELAND AVE AT FERRIS RD - 3159

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 590

INT #3159 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 590

NOTES:

1. SEE SHEET 590 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 293 FOR INTERSECTION QUANTITIES
3. SEE SHEET 891 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

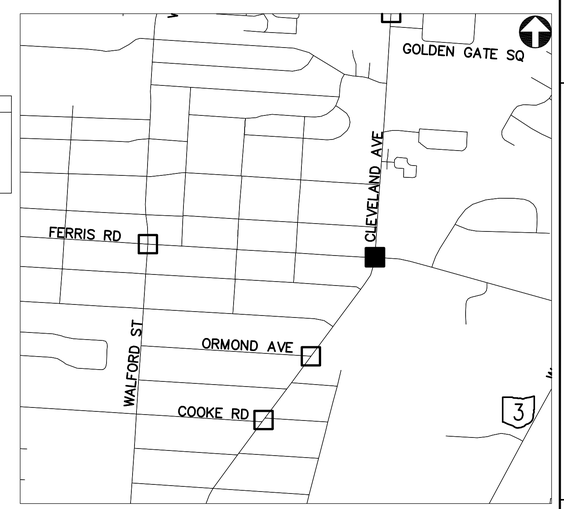
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

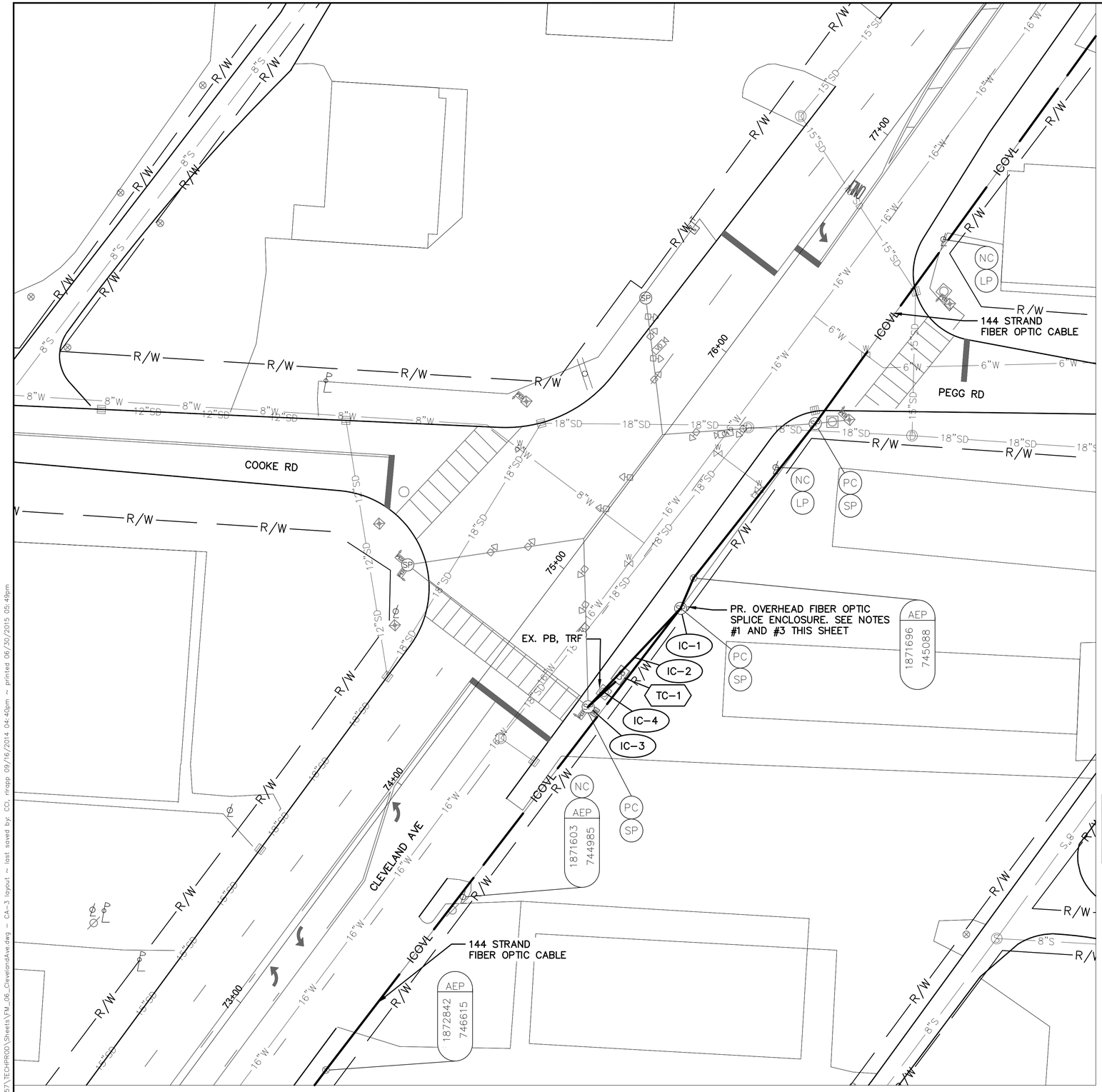
PID NUMBER 13034

CLEVELAND AVE AT FERRIS RD
INTERSECTION 3159

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

289
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 589

INT #SIG4055 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 589

NOTES:

1. SEE SHEET 589 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 293 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1051 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT COOKE RD AND PEGG RD -SIG4055

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT COOKE RD AND PEGG RD
INTERSECTION SIG4055

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

290
1107

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HUY RD/COUNTY RD 79

CLEVELAND AVE

38+00

37+00

36+00

35+00

TC-1

IC-1

IC-2

EX. PB, TRF

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

AEP 1870226 741579

AEP 1870187 741425

AEP 1870168 741334

PC

SP

R/W

ICOVL

ONLY

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 587

INT #SIG4060 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 587

NOTES:

1. SEE SHEET 587 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 293 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1052 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

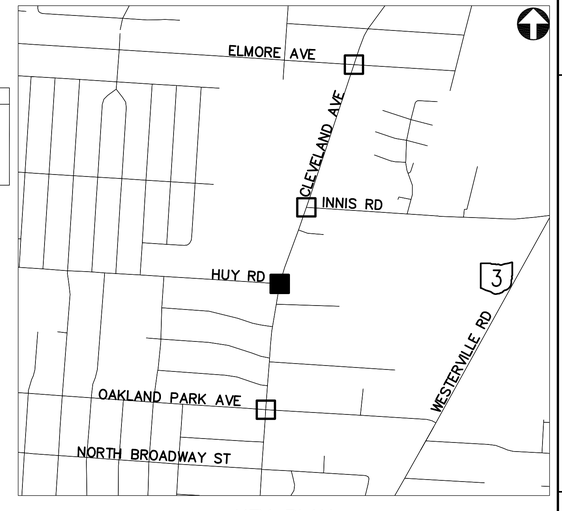
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT HUY RD -SIG4060

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

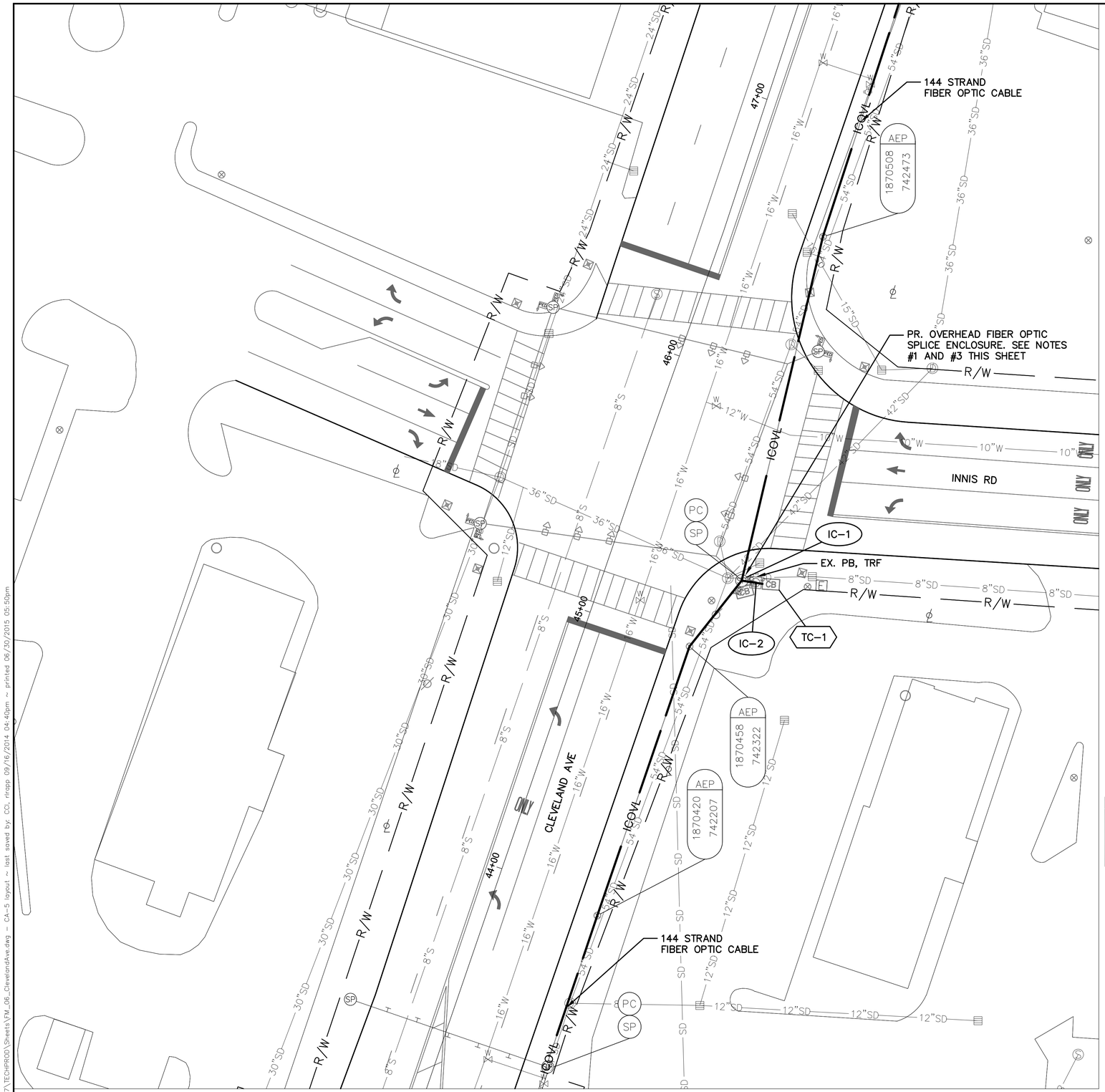
PID NUMBER 13034

CLEVELAND AVE AT HUY RD
INTERSECTION SIG4060

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

291
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 588

INT #SIG4085 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 588

NOTES:

1. SEE SHEET 588 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 293 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1053 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

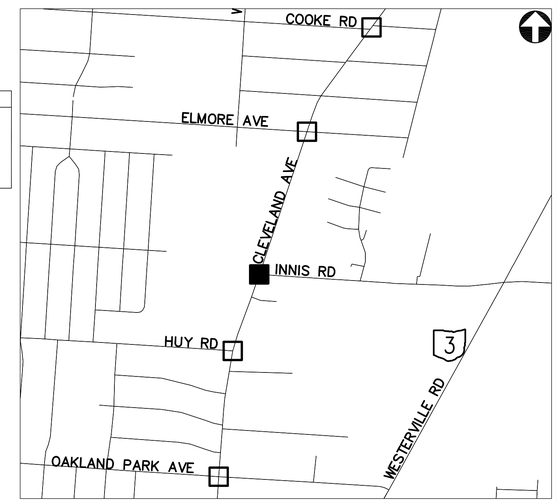
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT INNIS RD - SIG4065

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT INNIS RD
INTERSECTION SIG4065

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

292
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	202 EXISTING CONDUIT CLEANED, APP (FT)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (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)	633 INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)
INTERSECTION 3154: CLEVELAND AVE. AT OAKLAND PARK AVE.											
288	IC-1	23+14, 41' RT								110	
288	IC-2	23+14, 41' RT	23+24, 37' RT							21	
288	TC-1	23+24, 37' RT			2	1		1			1
288	PULL BOX SLACK									10	
INTERSECTION 3159: CLEVELAND AVE. AT FERRIS RD.											
289	IC-1	97+04, 43' RT								75	
289	IC-2	97+04, 43' RT	97+16, 50' RT						14	14	
289	IC-3	97+16, 50' RT								35	
289	TC-1	97+16, 50' RT			2	1	1				1
INTERSECTION SIG4055: CLEVELAND AVE. AT COOKE RD. & PEGG RD.											
290	IC-1	75+14, 43' RT								75	
290	IC-2	75+14, 43' RT	74+65, 38' RT						50	50	
290	IC-3	74+65, 38' RT								35	
290	IC-4	74+65, 38' RT	74+81, 40' RT							27	
290	TC-1	74+81, 40' RT			2	1	1				1
INTERSECTION SIG4060: CLEVELAND AVE. AT HUY RD.											
291	IC-1	36+99, 42' RT								110	
291	IC-2	36+99, 42' RT	37+02, 42' LT	104						104	
291	TC-1	37+02, 42' LT			2	1	1				1
291	PULL BOX SLACK									20	
INTERSECTION SIG4065: CLEVELAND AVE. AT INNIS RD											
292	IC-1	45+29, 49' RT								110	
292	IC-2	45+29, 49' RT	45+31, 60' RT	21						21	
292	TC-1	45+31, 60' RT			2	1	1				1
292	PULL BOX SLACK									10	

144 STRAND
FIBER OPTIC CABLE

AEP
18710561
744141

AEP
18710251
744034

PR. OVERHEAD FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

ELMORE AVE

IC-1

PC

SP

TC-1

NC

SP

AEP
18709691
743855

144 STRAND
FIBER OPTIC CABLE

CLEVELAND AVE

63+00

62+00

61+00

60+00

ONLY

R/W

6"W

8"S

12"SD

15"SD

18"SD

16"W

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
588

INT #SIG4070 WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
588

NOTES:

1. SEE SHEET 588 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

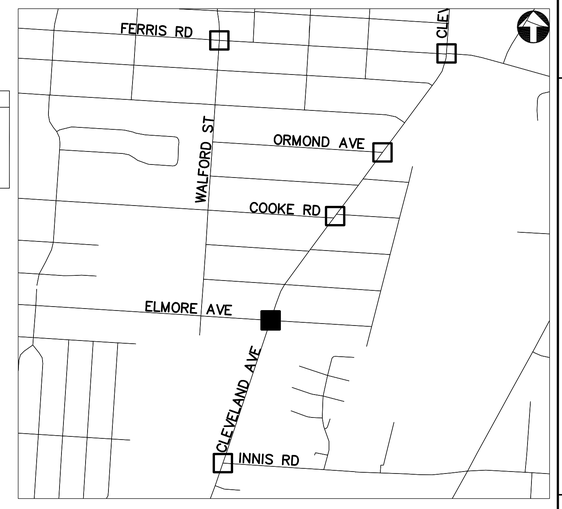
2. SEE SHEET 296 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1054 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

CLEVELAND AVE AT ELMORE AVE - SIG4070

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

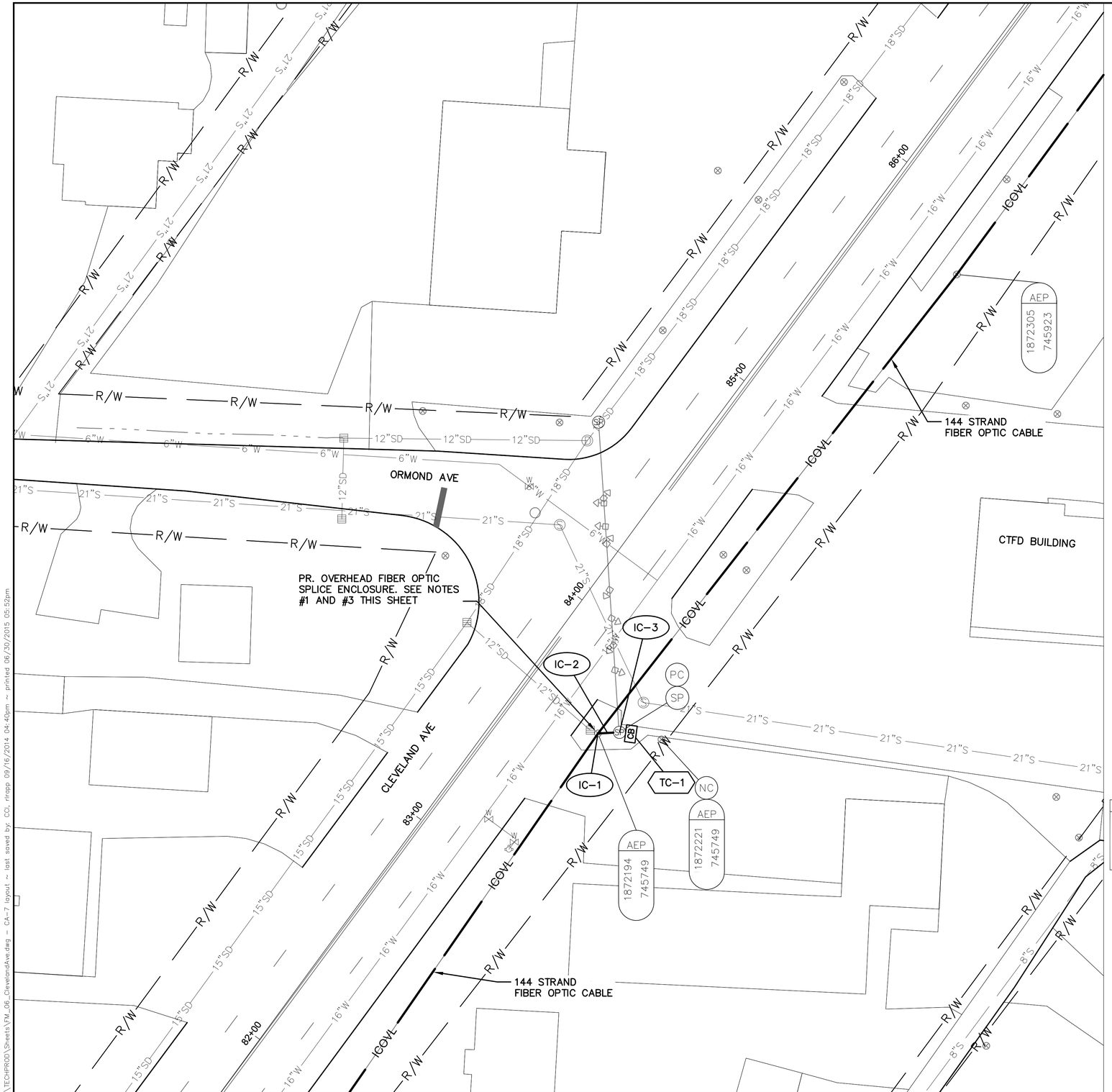
PID NUMBER
13034

CLEVELAND AVE AT ELMORE AVE
INTERSECTION SIG4070

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

294
1107

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CLEVELAND AVE AT CTFD - SIG4360

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 589

INT #SIG4360 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 589

NOTES:

1. SEE SHEET 589 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 296 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1058 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CONTACT FCEO AND PROJECT ENGINEER AT LEAST ONE WEEK IN ADVANCE OF INTERSECTION WORK TO COORDINATE CONFIGURATION OF SIGNAL CONTROLLER

UNDERGROUND UTILITIES

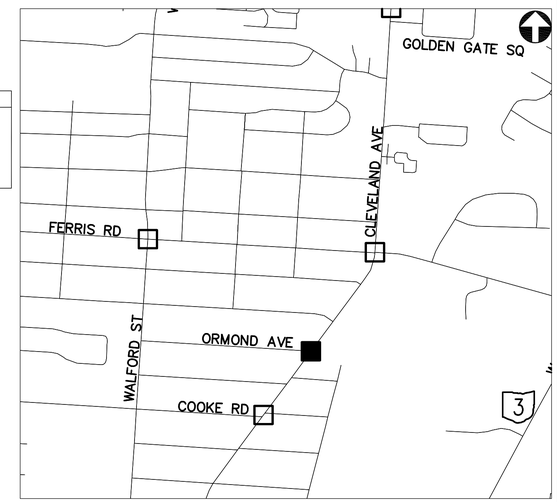
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLEVELAND AVE AT CTFD INTERSECTION SIG4360

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

295
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	804	804																
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION																
		FROM	TO	FT	EACH	EACH	EACH	FT	EACH																
INTERSECTION SIG4070: CLEVELAND AVE. AT ELMORE AVE																									
294	IC-1	61+96, 44' RT						110																	
294	TC-1	61+96, 44' RT			2	1	1		1																
INTERSECTION SIG4360: CLEVELAND AVE. AT CTFD																									
295	IC-1	83+64, 34' RT						75																	
295	IC-2	83+64, 34' RT	83+69, 40' RT	8				8																	
295	IC-3	83+69, 40' RT						35																	
295	TC-1	83+69, 40' RT			2	1	1		1																
SHEET TOTAL				8	4	2	2	228	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2762 DR. E

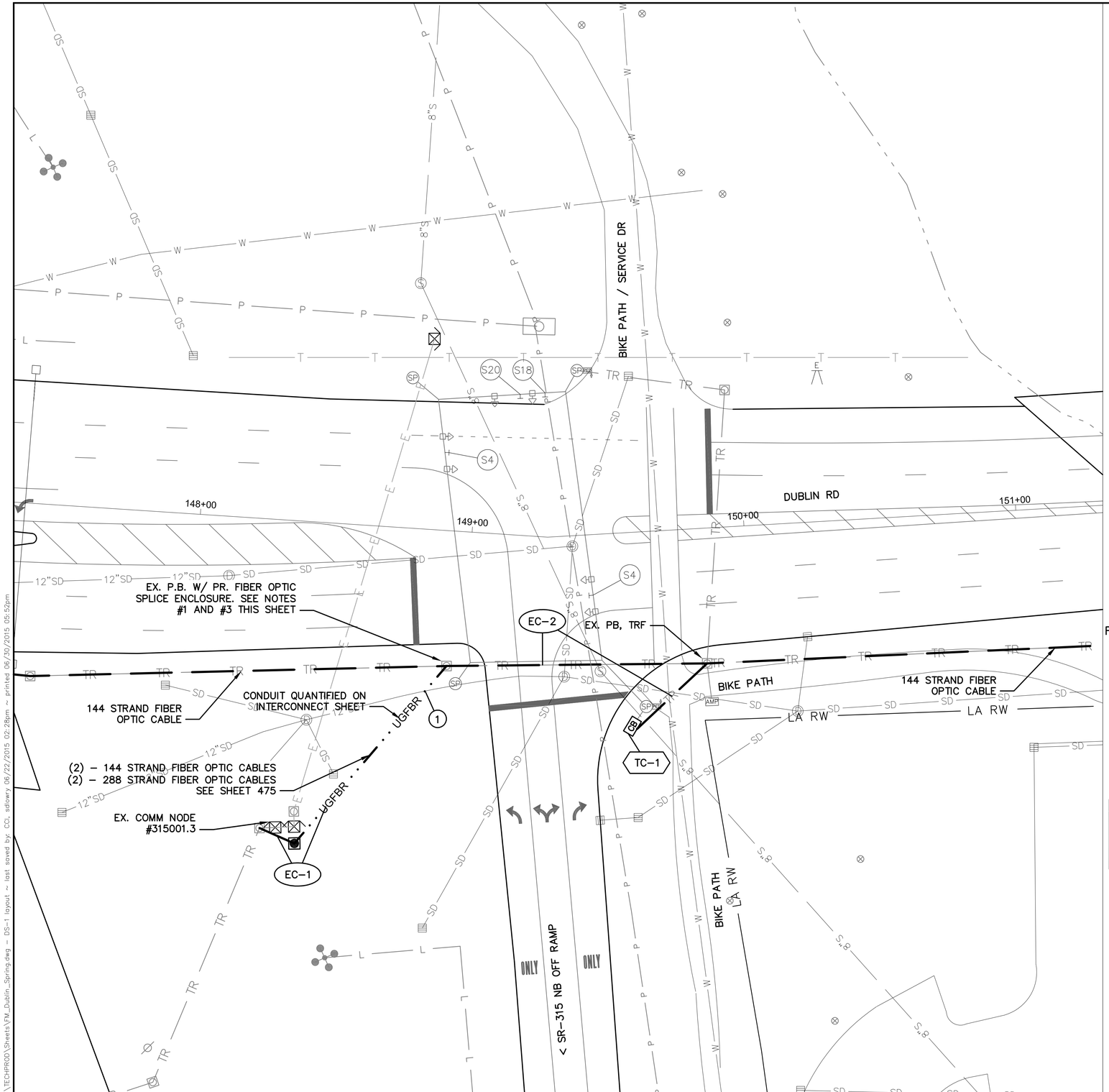
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS SIG4070 AND SIG4360

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

296
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 475 — INT #0101 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 475

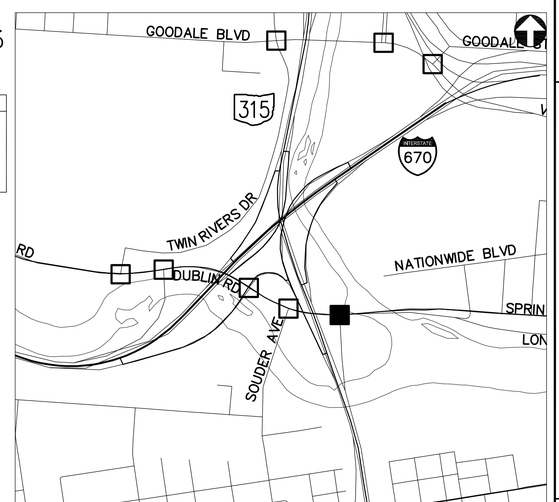
NOTES:

1. SEE SHEET 475 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 302 FOR INTERSECTION QUANTITIES
3. SEE SHEET 855 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

DUBLIN RD AT SR-315 NB RAMP - 0101

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

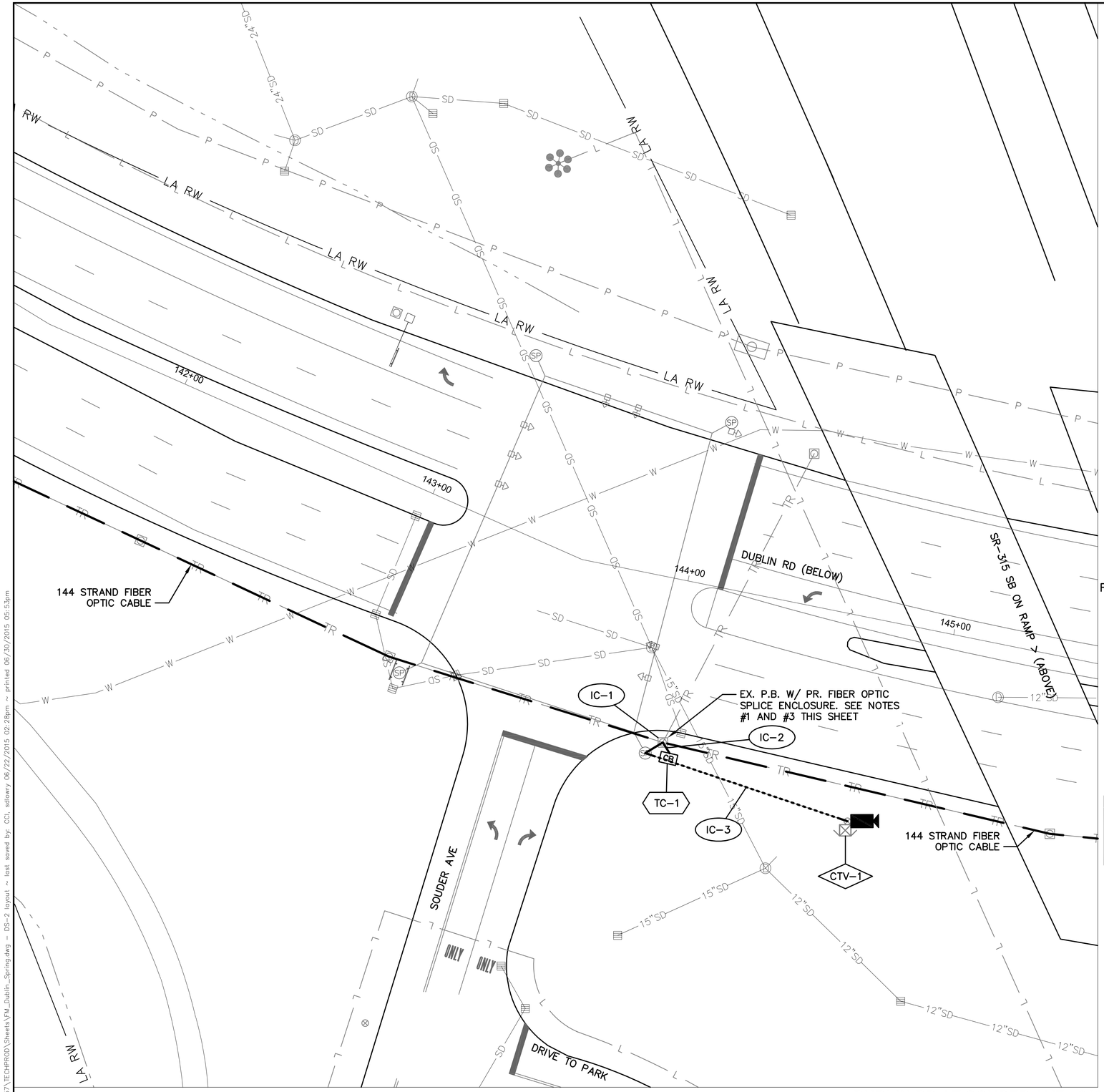
PID NUMBER 13034

DUBLIN RD AT SR315 NB RAMP INTERSECTION 0101

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

297
1107

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DUBLIN RD AT SOUDER AVE - 0102

INTERSECTION COMMUNICATIONS

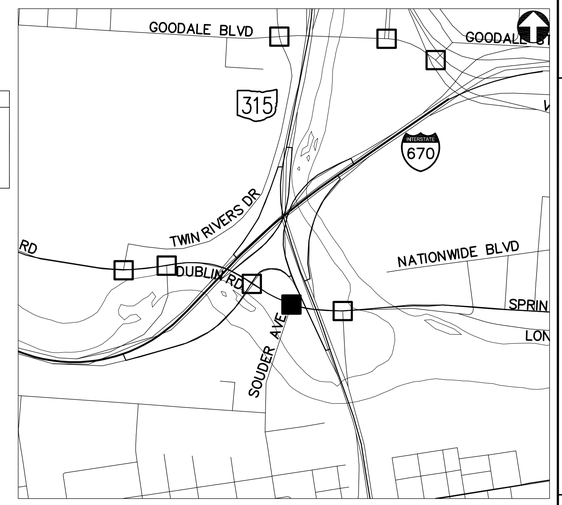
PROPOSED FIBER CABLE SEE SHEET 475 — INT #0102 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 475

NOTES:

1. SEE SHEET 475 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 302 FOR INTERSECTION QUANTITIES
3. SEE SHEET 856 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES
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OHIO UTILITIES PROTECTION SERVICE

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

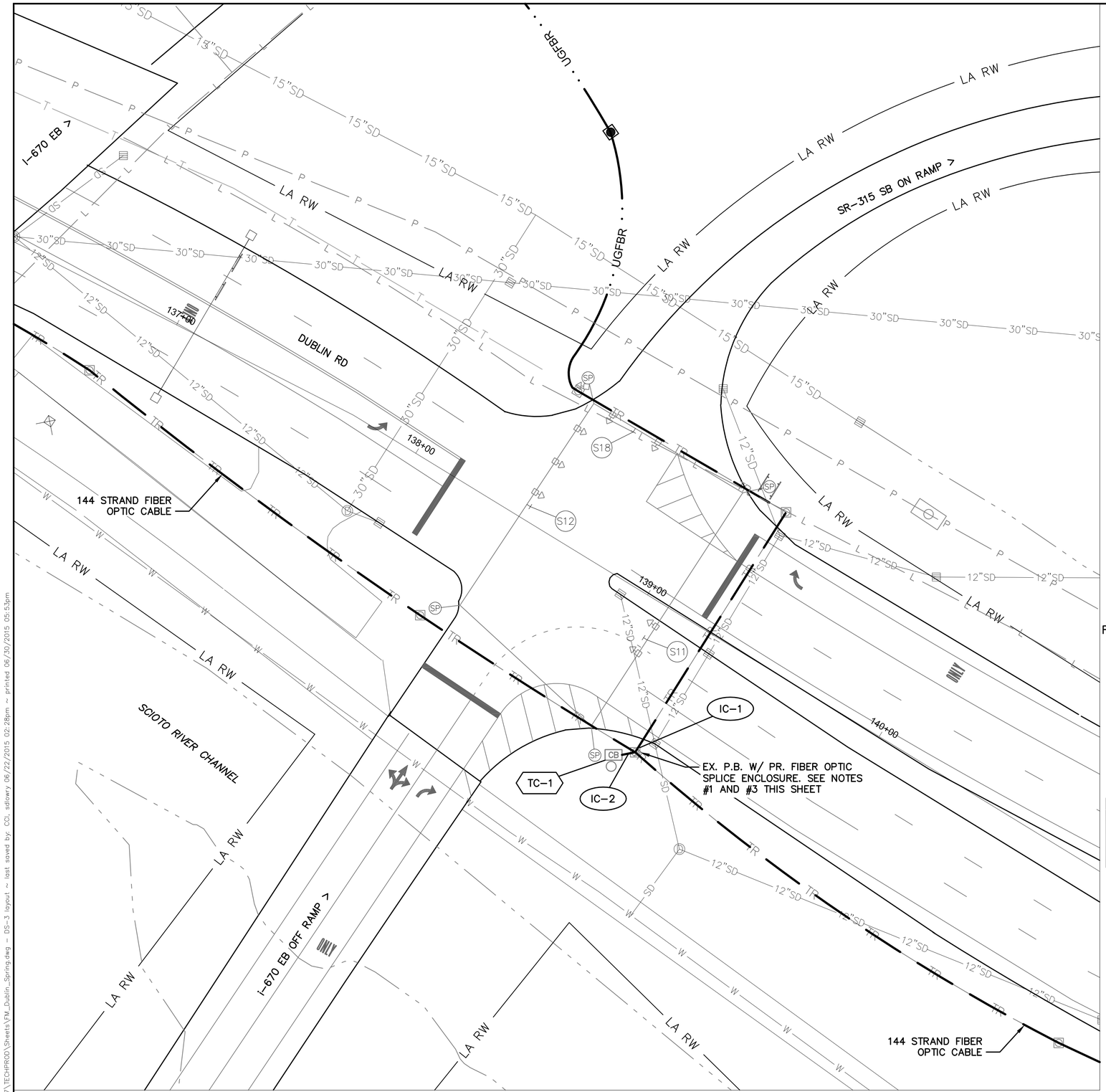
PID NUMBER 13034

DUBLIN RD AT SOUDER AVE INTERSECTION 0102

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

298
1107

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INTERSECTION COMMUNICATIONS

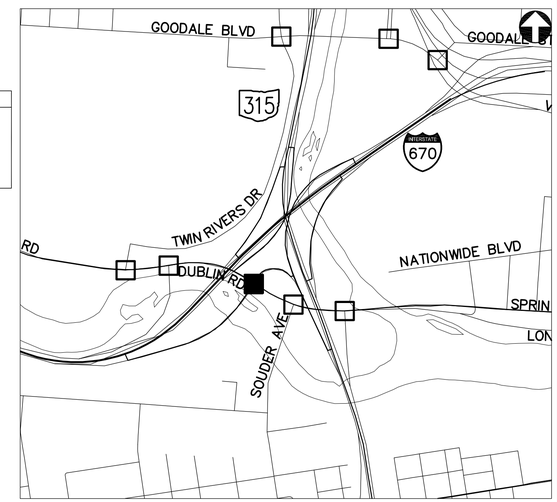
PROPOSED FIBER CABLE SEE SHEET 474 — INT #0103 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 475

NOTES:

1. SEE SHEETS 474 AND 475 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 302 FOR INTERSECTION QUANTITIES
3. SEE SHEET 857 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

DUBLIN RD AT SR-315 SB ON RAMP AND I-670 EB OFF RAMP - 0103

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

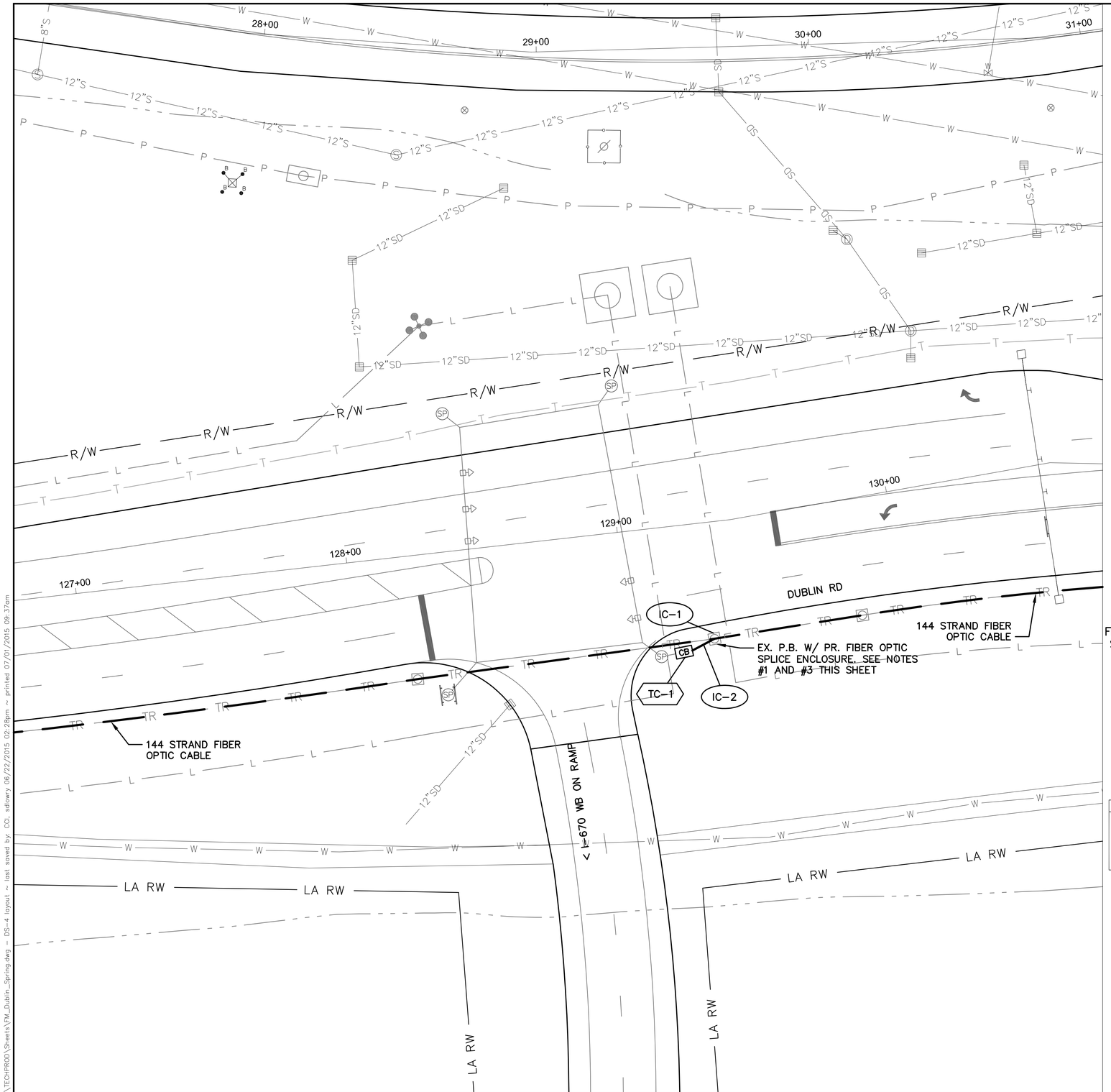
PID NUMBER 13034

DUBLIN RD AT SR-315 SB ON RAMP AND I-670 EB OFF RAMP
INTERSECTION 0103

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

299
1107

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DUBLIN RD AT I-670 WB ON RAMP - 0104

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 474 — INT #0104 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 474

NOTES:

1. SEE SHEET 474 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 302 FOR INTERSECTION QUANTITIES
3. SEE SHEET 858 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

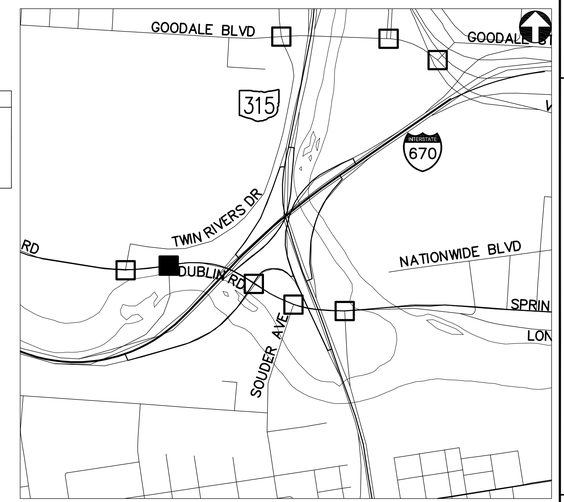
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

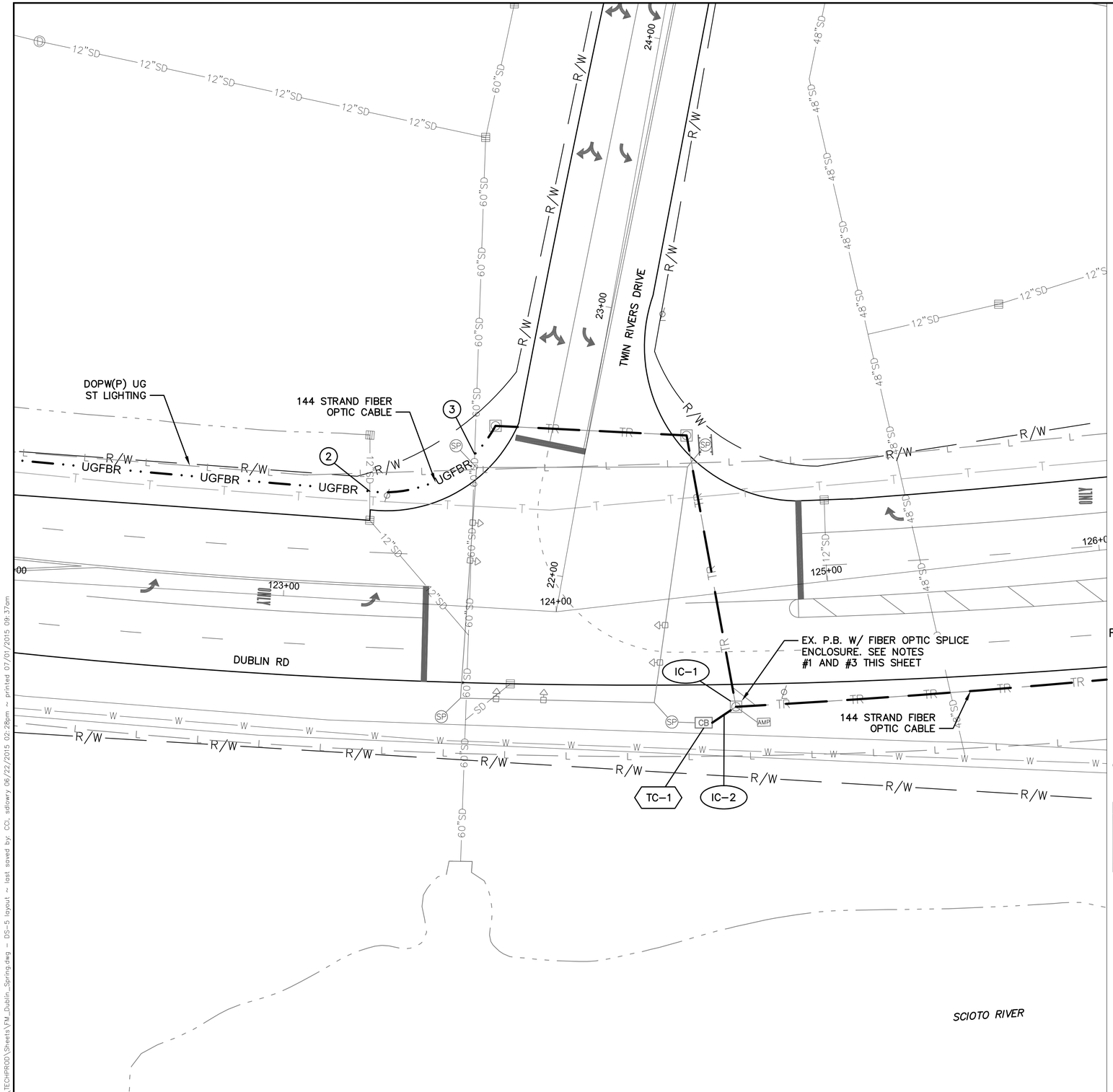
PID NUMBER 13034

DUBLIN RD AT I-670 WB ON RAMP
INTERSECTION 0104

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

300
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 474 — INT #0105 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 474

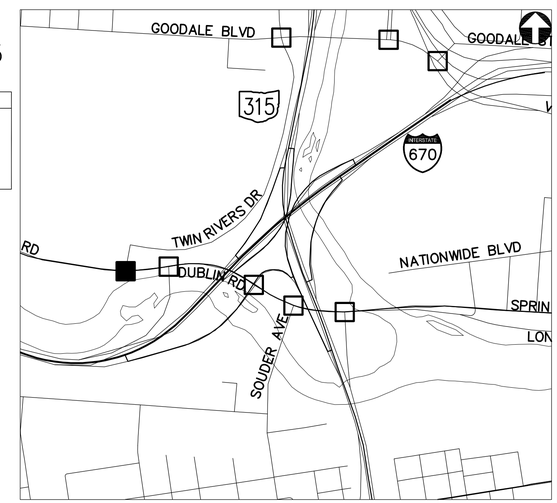
NOTES:

1. SEE SHEET 474 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 302 FOR INTERSECTION QUANTITIES
3. SEE SHEET 859 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

DUBLIN RD AT TWIN RIVERS DR - 0105

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN RD AT TWIN RIVERS DR
INTERSECTION 0105

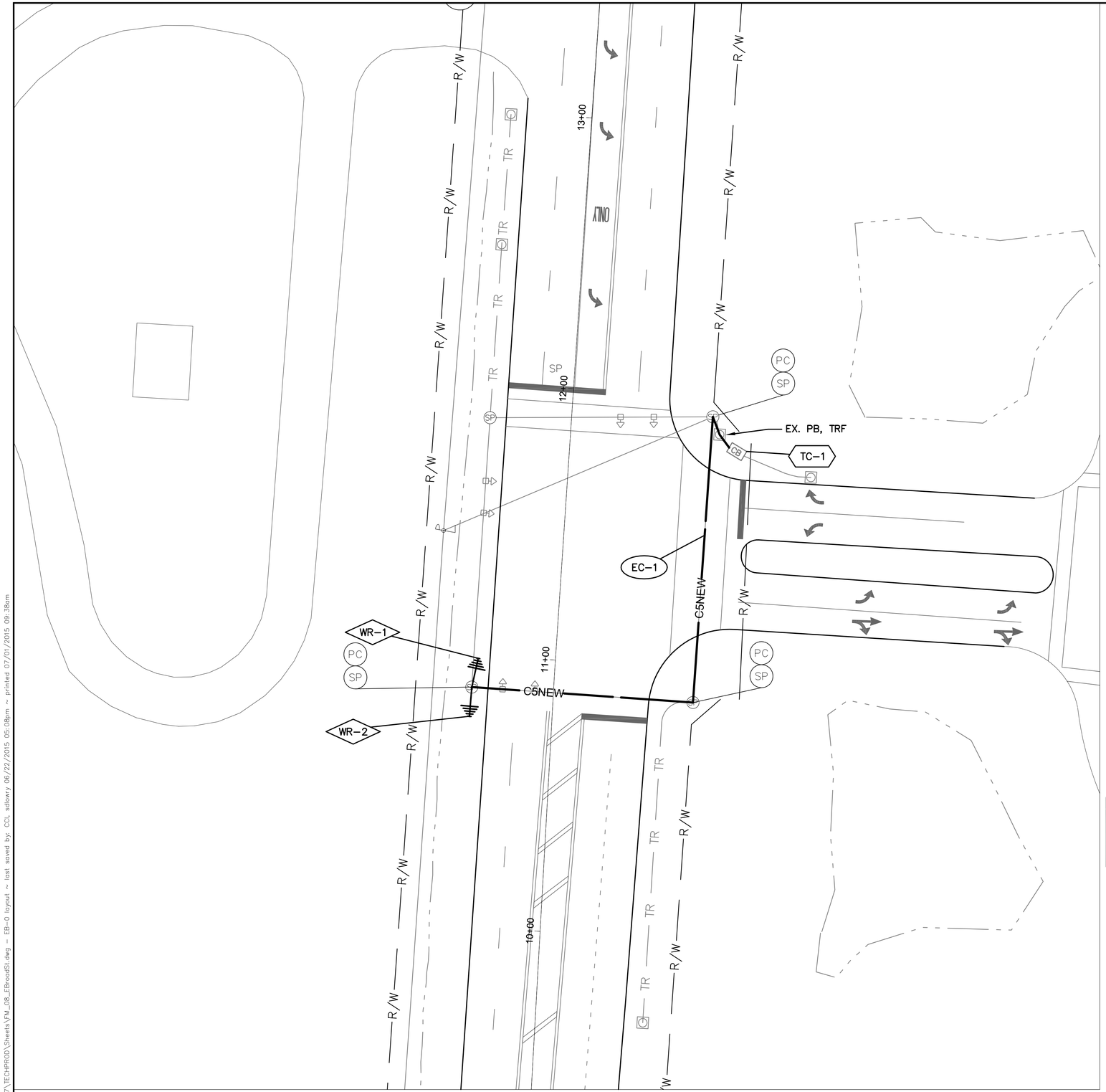
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

301
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	804	804													
				SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION											
		FROM	TO	EACH	EACH	EACH	FT	FT	EACH	EACH	FT	EACH													
INTERSECTION 0101: DUBLIN RD. AT SR-315 NB																									
297	EC-1	148+35, 113' RT	148+94, 50' RT						116																
297	EC-2	148+94, 50' RT	149+55, 71' RT						143																
297	TC-1	149+55, 71' RT				1		1																	
297	PB SLACK								20																
INTERSECTION 0102: DUBLIN RD. AT SOUDER AVE.																									
298	IC-1	144+03, 60' RT									75														
298	IC-2	144+03, 60' RT	144+03, 66' RT								16														
298	TC-1	144+03, 66' RT			2	1		1				1													
298	IC-3	143+97, 65' RT	144+75, 75' RT							79															
298	CTV-1	144+75, 75' RT		1																					
INT. 0103: DUBLIN RD. AT SR 315 SB ON RAMP & I-670 EB OFF RAMP																									
299	IC-1	139+26, 52' RT									75														
299	IC-2	139+26, 52' RT	139+23, 55' RT								15														
299	TC-1	139+23, 55' RT			2	1	1					1													
INTERSECTION 0104: DUBLIN RD. AT I-670 WB ON RAMP																									
300	IC-1	129+31, 43' RT									75														
300	IC-2	129+31, 43' RT	129+23, 46' RT								19														
300	TC-1	129+23, 46' RT			2	1		1				1													
INTERSECTION 0105: DUBLIN RD. AT TWIN RIVERS RD.																									
301	IC-1	124+61, 42' RT									75														
301	IC-2	124+61, 42' RT	124+52, 47' RT								20														
301	TC-1	124+52, 47' RT			3	1	1					1													



INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 619

INT #3072 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 619

NOTES:

1. SEE SHEET 619 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 308 FOR INTERSECTION QUANTITIES
3. SEE SHEET 882 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

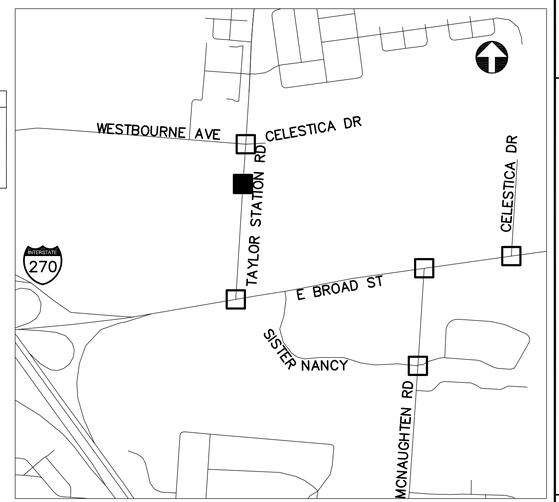
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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

MEDICAL CENTER DRIVE AT TAYLOR STATION RD - 3072

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

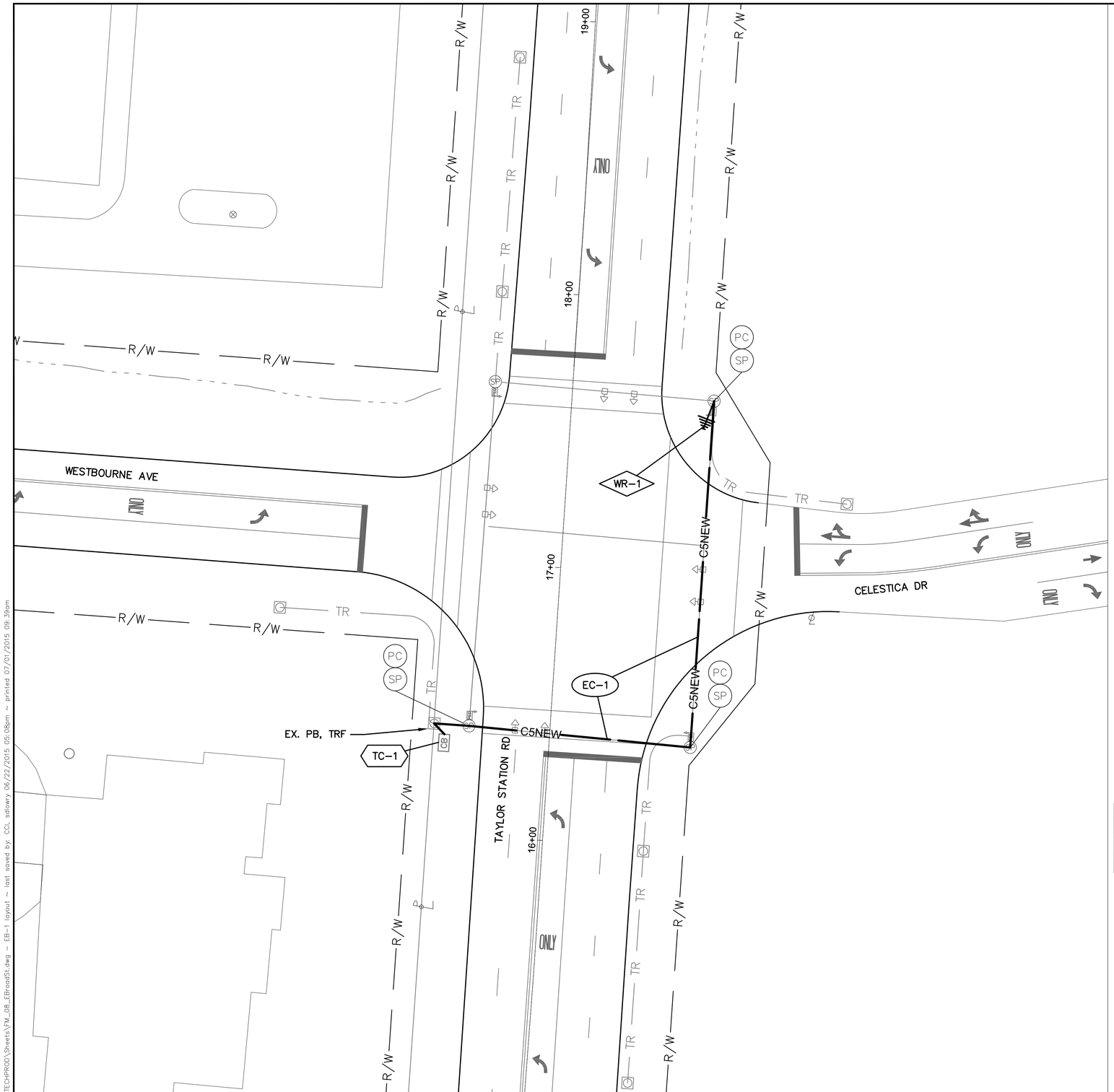
PID NUMBER 13034

MEDICAL CENTER DRIVE AT TAYLOR STATION RD
INTERSECTION 3072

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

303
1107

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CELESTICA DR AND WESTBOURNE AVE AT TAYLOR STATION RD - 3071

INTERSECTION COMMUNICATIONS

INT #3071 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 619

NOTES:

1. SEE SHEET 619 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 308 FOR INTERSECTION QUANTITIES
3. SEE SHEET 881 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

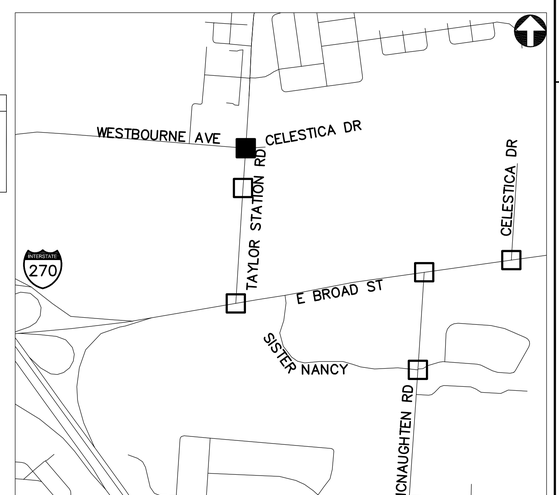
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- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CELESTICA DR AND WESTBOURNE AVE AT TAYLOR STATION RD INTERSECTION 3071

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

304
1107

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TAYLOR STATION RD

E BROAD ST

ICOVL

ICNEW

UGFBR

TC-1

WR-1

IC-1

IC-2

IC-3

IC-4

IC-5

IC-6

EX. PB, TRF

DOPW(P) UG ST LIGHTING

PR. P.B. W/ PR. FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

144 STRAND FIBER OPTIC CABLE

AEP 1803611 721087

ONLY

171+00

172+00

170+00

169+00

0+00

1+00

2+

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 619

PROPOSED FIBER CABLE SEE SHEET 606

INT #3080 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 606

NOTES:

1. SEE SHEETS 606 AND 619 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 308 FOR INTERSECTION QUANTITIES

3. SEE SHEET 883 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

UNDERGROUND UTILITIES

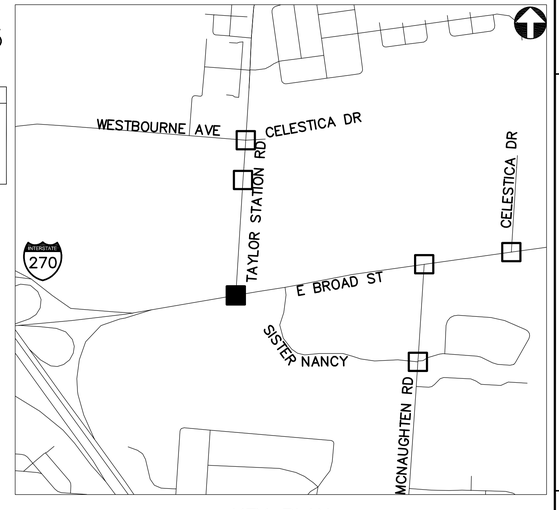
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
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KEY PLAN
NOT TO SCALE

E BROAD ST AT TAYLOR STATION RD - 3080

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT TAYLOR STATION RD
INTERSECTION 3080

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

305
1107

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IC-1
IC-2
IC-3
IC-4
IC-5
CTV-1
TC-1
PC
SP
NC
OB
SH
ICOVL
R/W
ONLY
190+00
191+00
192+00
193+00
113+00
114+00
E BROAD ST
MCNAUGHTEN RD
PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET
144 STRAND FIBER OPTIC CABLE
AEP 1905564 721396
AEP 1905694 721411
AEP 1905741 721370
AEP 1905860 721446

E BROAD ST AT MCNAUGHTEN RD - 3081

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 607 — INT #3081 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 607

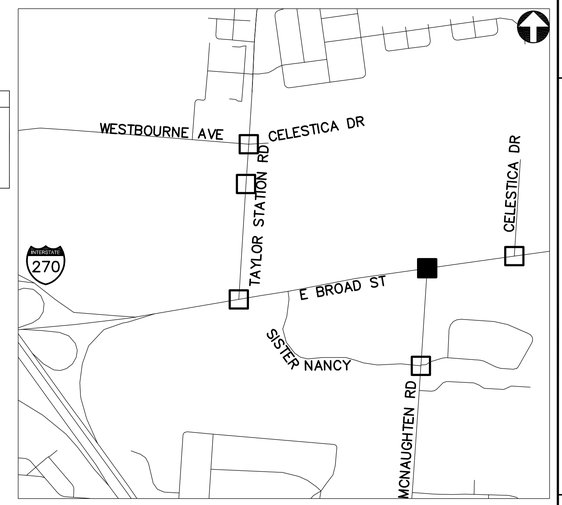
PROPOSED FIBER CABLE SEE SHEET 615

NOTES:

1. SEE SHEETS 607 AND 615 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 308 FOR INTERSECTION QUANTITIES
3. SEE SHEET 884 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES
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CITY OF COLUMBUS UTILITY LEGEND
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- WATER
- POWER
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KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

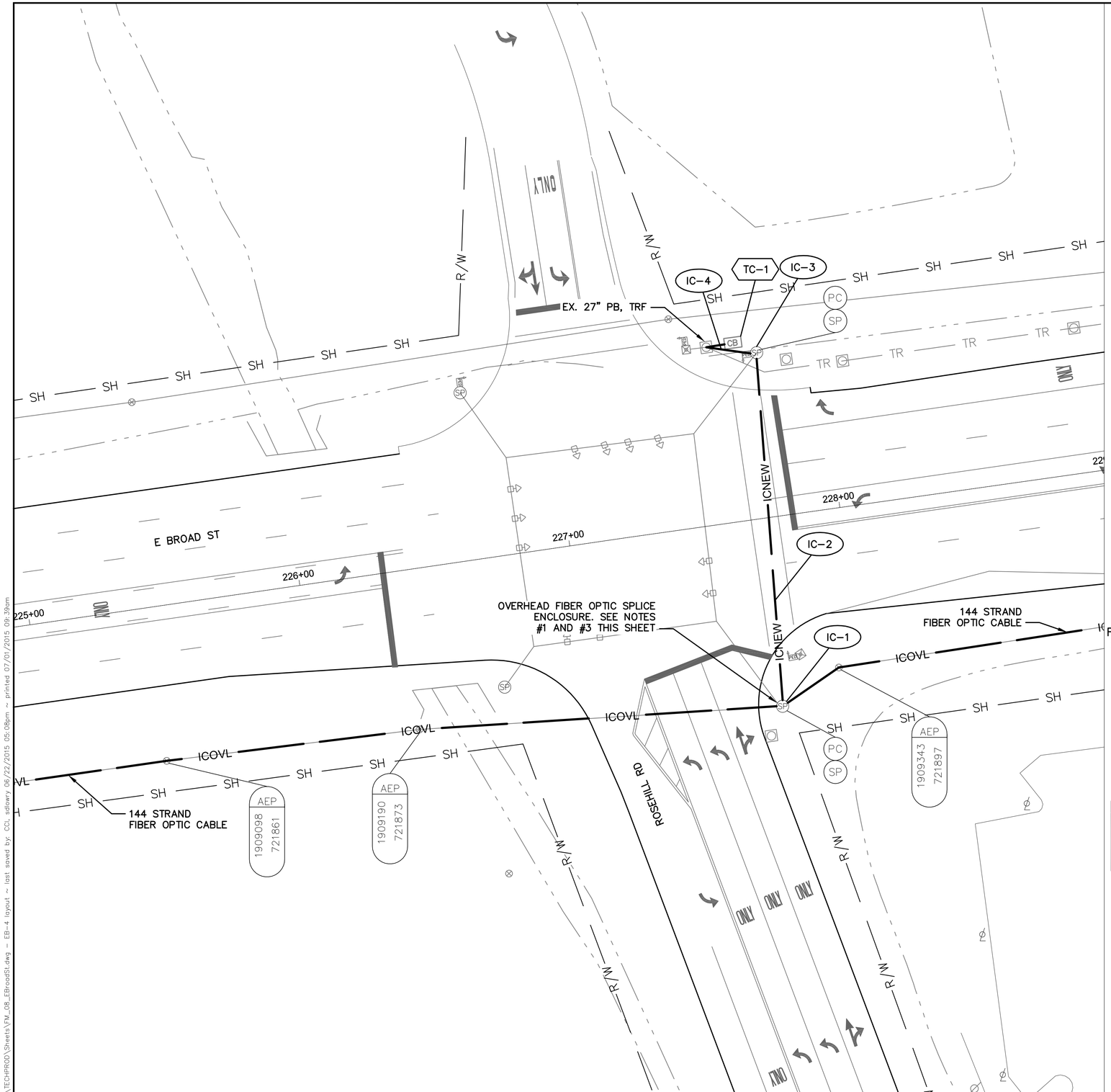
PID NUMBER 13034

E BROAD ST AT MCNAUGHTEN RD
INTERSECTION 3081

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

306
1107

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INTERSECTION COMMUNICATIONS

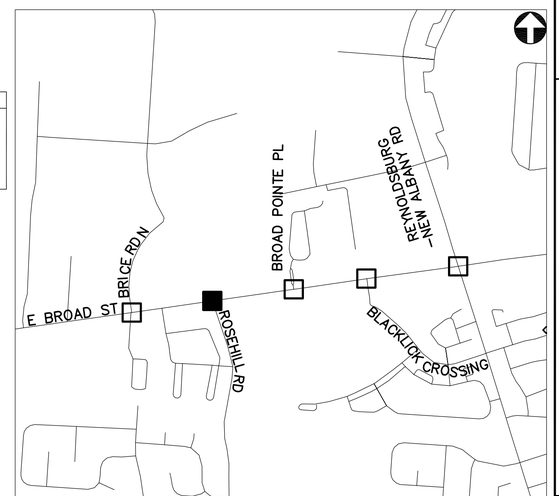
PROPOSED FIBER CABLE SEE SHEET 608 — INT #3082 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 609

NOTES:

1. SEE SHEETS 608 AND 609 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 308 FOR INTERSECTION QUANTITIES
3. SEE SHEET 885 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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KEY PLAN
NOT TO SCALE

E BROAD ST AT ROSEHILL RD - 3082

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT ROSEHILL RD
INTERSECTION 3082

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

307
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)
INTERSECTION 3072: MEDICAL CENTER DR. AT TAYLOR STATION RD.														
303	IC-1	11+45, 44' LT									75			
303	IC-2	11+45, 44' LT	11+93, 52' RT							127	127			
303	IC-3	11+93, 52' RT									35			
303	IC-4	11+93, 52' RT	11+81, 67' RT								29			
303	TC-1	11+81, 67' RT				2	1	1					1	
303	PULL BOX SLACK										10			
INT. 3071: CELESTICA & WESTBOURNE RD. AT TAYLOR STATION RD.														
304	IC-1	15+73, 43' LT									75			
304	IC-2	15+73, 43' LT	16+40, 30' LT	68							68			
304	IC-3	16+40, 30' LT									35			
304	IC-4	16+40, 30' LT	16+30, 38' LT								31			
304	TC-1	16+33, 38' LT				2	1	1					1	
304	PULL BOX SLACK										10			
INTERSECTION 3080: E. BROAD ST. AT TAYLOR STATION RD.														
305	IC-1	169+77, 78' RT										75		
305	IC-2	169+77, 78' RT	170+01, 81' RT									25		
305	IC-3	170+01, 81' RT										35		
305	IC-4	170+01, 81' RT	170+29, 79' LT									163		
305	IC-5	170+29, 79' LT										35		
305	IC-6	170+29, 79' LT	170+30, 90' LT									39		
305	TC-1	170+30, 90' LT				4		1	1					1
305	PULL BOX SLACK											10		
INTERSECTION 3081: E. BROAD ST. AT MCNAUGHTEN RD.														
306	IC-1	191+06, 54' RT										75		
306	IC-2	191+06, 54' RT	191+36, 53' LT							111		111		
306	IC-3	191+36, 53' LT										35		
306	IC-4	191+36, 53' LT	191+30, 45' LT									22		
306	TC-1	191+28, 43' LT				3		1	1					1
306	IC-5	191+36, 53' LT	192+09, 59' LT	88										
306	CTV-1	192+09, 59' LT			1									
INTERSECTION 3082: E. BROAD ST. AT ROSEHILL RD.														
307	IC-1	227+69, 69' RT									75			
307	IC-2	227+69, 69' RT	227+78, 60' LT	130							130			
307	IC-3	227+78, 60' LT									35			
307	IC-4	227+78, 60' LT	227+70, 65' LT								41			
307	TC-1	227+70, 65' LT				2		1					1	
307	PULL BOX SLACK										10			

144 STRAND FIBER OPTIC CABLE

R/W ICNEW

ONLY

1002+00

REYNOLDSBURG-NEW ALBANY RD

DOPW 438868

SH — SH — SH — SH — SH — SH — SH — SH — SH — SH

1001+00

AEP 1911989 722388

PC SP

CTV-1

IC-3

E SP

ONLY

256+00

255+00

1000+00

NC

AEP 1912143 722279

AEP 1912163 722279

254+00

253+00

E BROAD ST

ONLY

IC-1

ICOVL

144 STRAND FIBER OPTIC CABLE

CB

OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-2

TC-1

ICOVL — SH — SH — SH — SH — SH — SH

144 STRAND FIBER OPTIC CABLE

PC SP

HS

SH

999+00

R/W

998+00

OUT

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 626

PROPOSED FIBER CABLE SEE SHEET 610

INT #3083 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 610

NOTES:

1. SEE SHEETS 610 AND 626 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 314 FOR INTERSECTION QUANTITIES
3. SEE SHEET 886 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

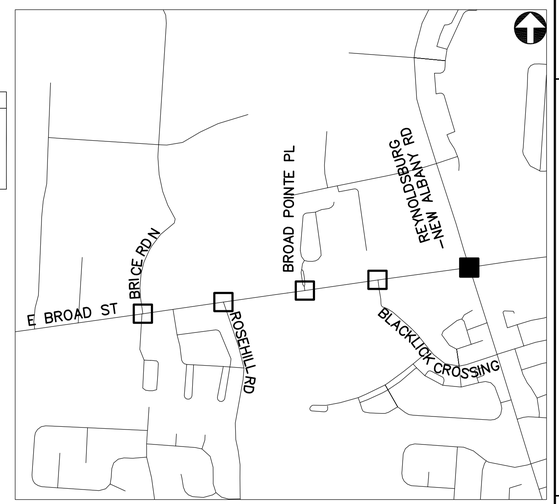
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KEY PLAN
NOT TO SCALE

E BROAD ST AT REYNOLDSBURG-NEW ALBANY RD - 3083

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

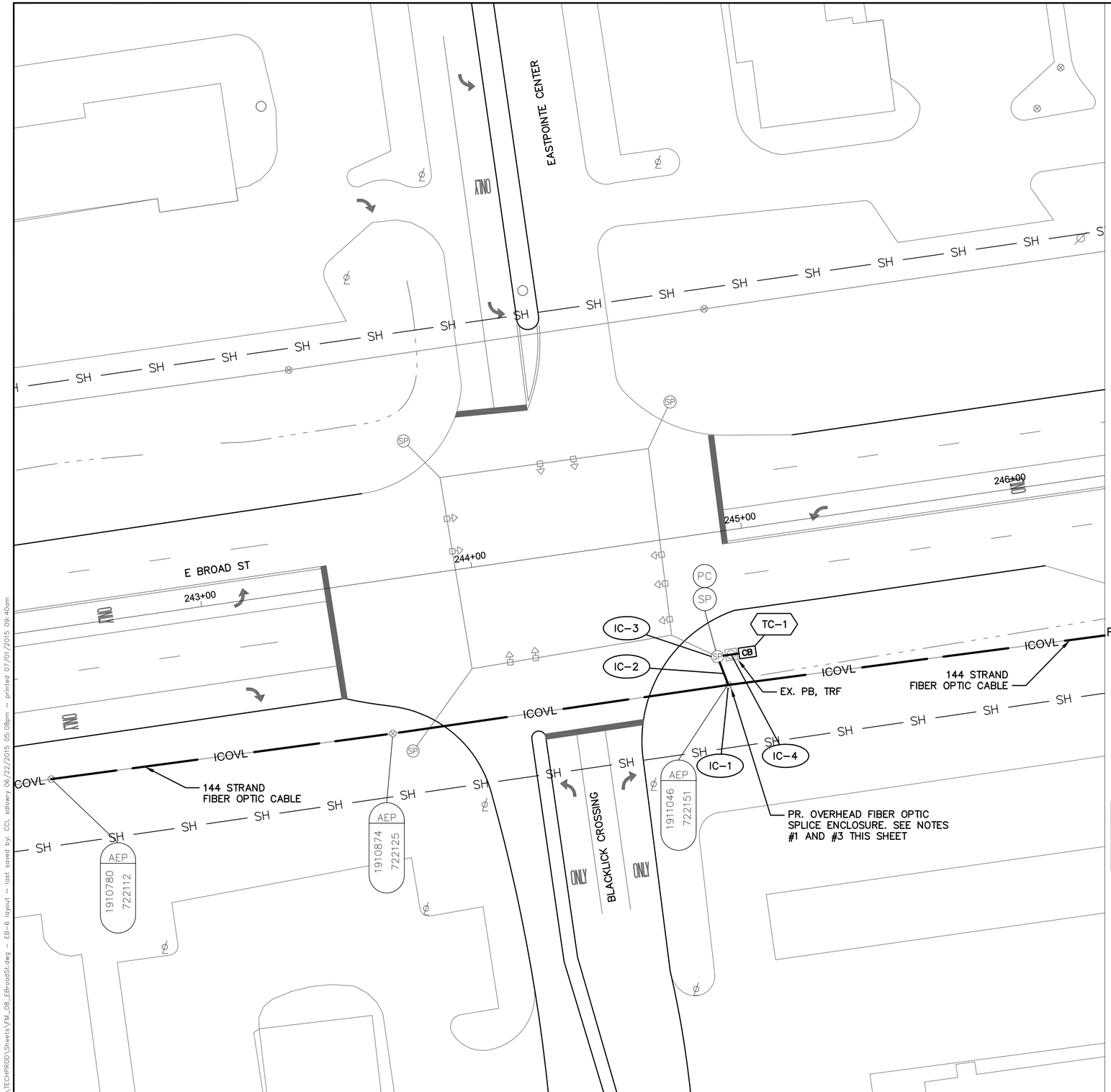
PID NUMBER 13034

E BROAD ST AT REYNOLDSBURG-NEW ALBANY RD
INTERSECTION 3083

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

309
1107

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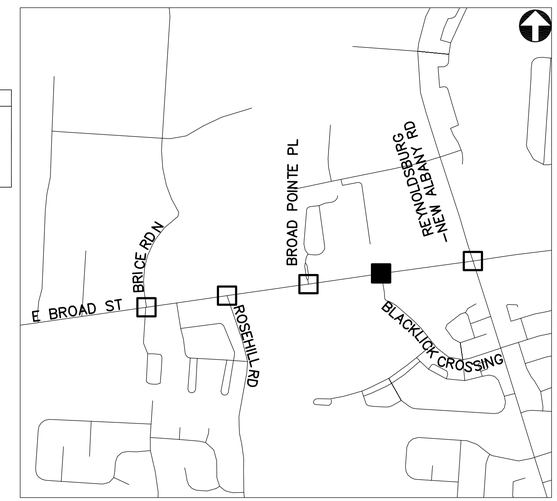
PROPOSED FIBER CABLE SEE SHEET 609 — INT #3084 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 609

NOTES:

1. SEE SHEETS 609 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 314 FOR INTERSECTION QUANTITIES
3. SEE SHEET 887 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

BLACKLICK CROSSING & EASTPOINTE CENTER AT E BROAD ST - 3084

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BLACKLICK CROSSING & EASTPOINTE CENTER AT E BROAD ST
INTERSECTION 3084

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

310
1107

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INTERSECTION COMMUNICATIONS

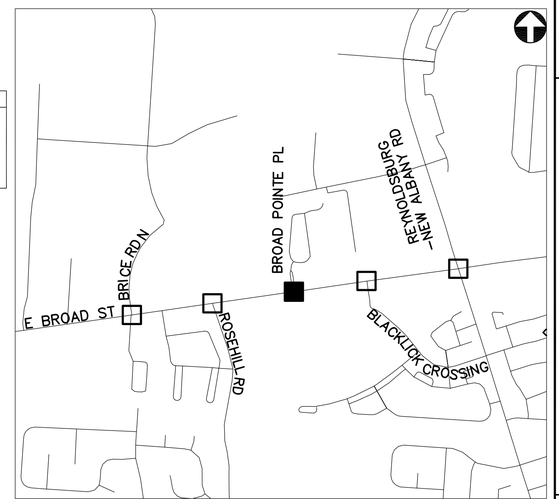
PROPOSED FIBER CABLE SEE SHEET 609 — INT #3085 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 609

NOTES:

1. SEE SHEET 609 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 314 FOR INTERSECTION QUANTITIES
3. SEE SHEET 888 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

E BROAD ST AT GIANT EAGLE CENTER - 3085

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

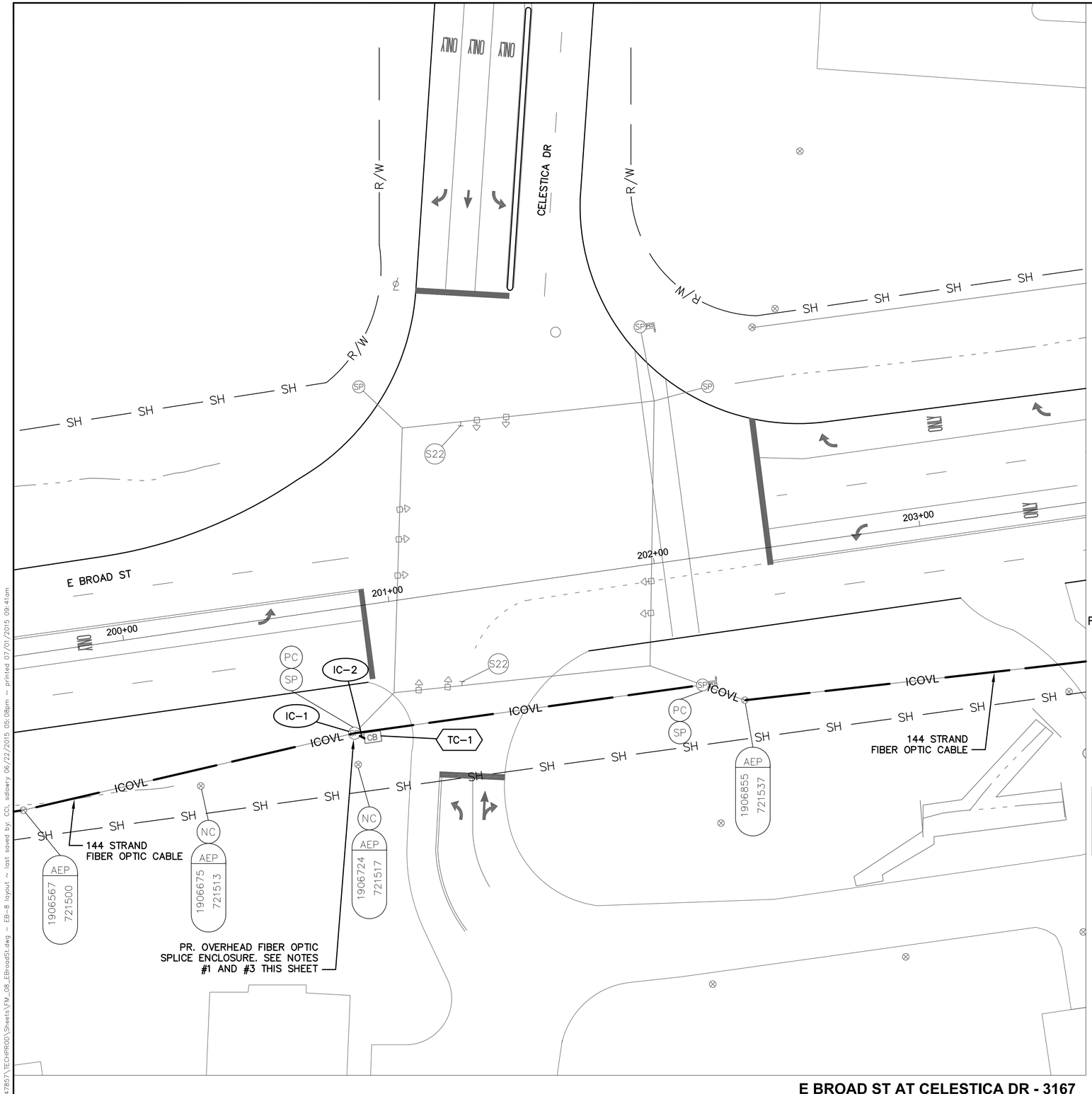
PID NUMBER 13034

E BROAD ST AT GIANT EAGLE CENTER
INTERSECTION 3085

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

311
1107

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INTERSECTION COMMUNICATIONS

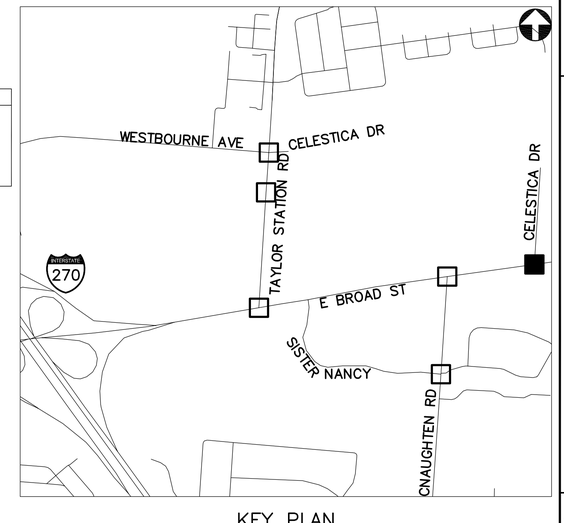
PROPOSED FIBER CABLE SEE SHEET 607 — INT #3167 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 607

NOTES:

1. SEE SHEET 607 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 314 FOR INTERSECTION QUANTITIES
3. SEE SHEET 897 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

E BROAD ST AT CELESTICA DR - 3167

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT CELESTICA DR
INTERSECTION 3167

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

312
1107

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E BROAD ST AT MEIJER DR - 3263

INTERSECTION COMMUNICATIONS

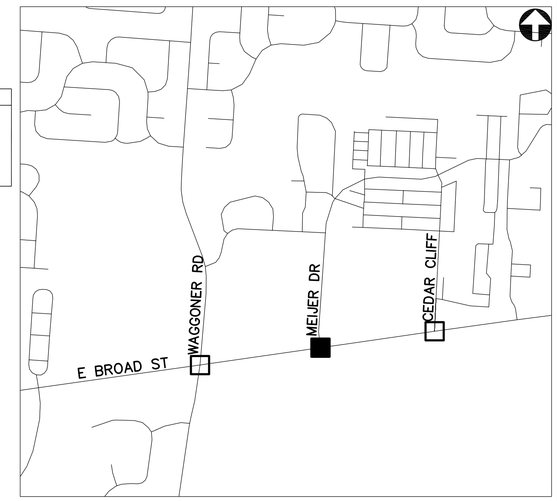
PROPOSED FIBER CABLE SEE SHEET 613 — INT #3263 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 613

NOTES:

1. SEE SHEET 613 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 314 FOR INTERSECTION QUANTITIES
3. SEE SHEET 904 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES
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KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT MEIJER DR
INTERSECTION 3263

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

313
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 CONDUIT; 2" RISER, AS PER PLAN	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	632 SIGNALIZATION, MISC.; CCTV IP-CAMERA SYSTEM	633 CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	633 CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	633 CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	633 INTERCONNECT, MISC.; OVERLASH TO EXISTING INTERCONNECT	804 FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	804 FIBER OPTIC CABLE, MISC.; 48 STRAND CABLE	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 48 TERMINATION
				EACH	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH
INTERSECTION 3083: E. BROAD ST. AT REYNOLDSBURG NEW ALBANY RD.															
309	IC-1	255+37, 67' RT		1									110		
309	IC-2	255+37, 67' RT	255+34, 78' RT										59		
309	TC-1	255+34, 78' RT					4	1	1						1
309	IC-3	255+24, 75' RT	253+97, 70' LT		236										
309	CTV-1	253+98, 70' LT				1									
309	PULL BOX SLACK												10		
INTERSECTION 3084: E. BROAD ST. AT EASTPOINT CENTER															
310	IC-1	244+87, 56' RT										75			
310	IC-2	244+87, 56' RT	244+85, 45' RT								11	11			
310	IC-3	244+85, 45' RT										35			
310	IC-4	244+85, 45' RT	244+96, 45' RT									21			
310	TC-1	244+96, 45' RT					2	1		1				1	
310	PULL BOX SLACK											10			
INTERSECTION 3085: E. BROAD ST. AT GIANT EAGLE CENTER															
311	IC-1	237+37, 52' RT										75			
311	IC-2	237+37, 52' RT	236+70, 56' RT								68	68			
311	IC-3	236+70, 56' RT										35			
311	IC-4	236+70, 56' RT	236+80, 60' RT									22			
311	TC-1	236+80, 60' RT					2	1	1					1	
311	PULL BOX SLACK											10			
INTERSECTION 3167: E. BROAD ST. AT CELESTICA DR.															
312	IC-1	200+80, 47' RT										110			
312	IC-2	200+80, 47' RT	200+87, 49' RT									17			
312	TC-1	200+87, 49' RT					2	1	1					1	
INTERSECTION 3263: E. BROAD ST. AT MEIJER															
313	IC-1	332+06, 66' RT										75			
313	IC-2	332+06, 66' RT	332+26, 54' RT								23	23			
313	IC-3	332+26, 54' RT										35			
313	IC-4	332+26, 54' RT	332+26, 65' RT									21			
313	TC-1	332+26, 65' RT					2	1	1					1	
		SHEET TOTAL		1	236	1	12	5	4	1	102	643	179	4	1

2762 DR. E

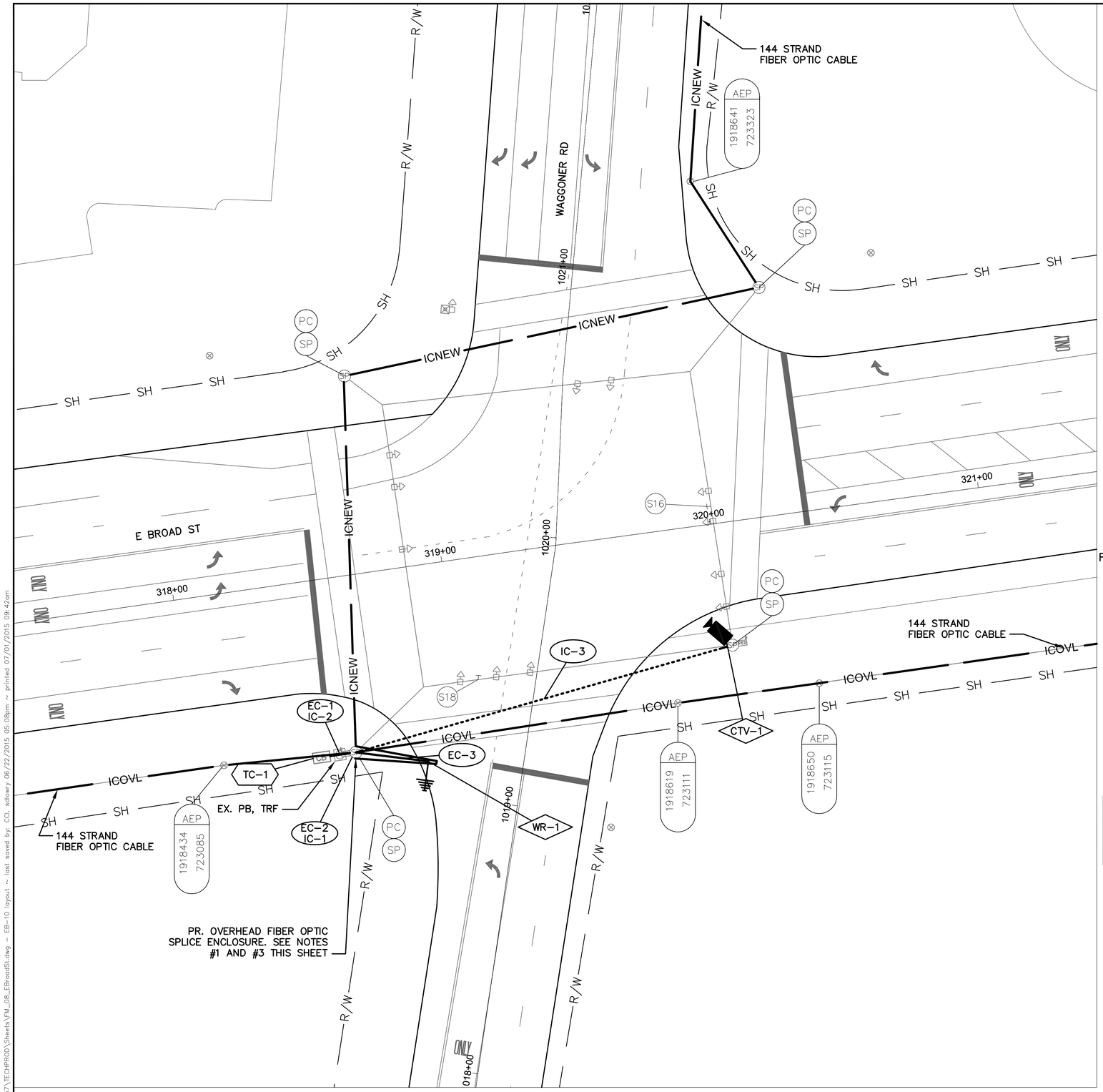
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 3083, 3084, 3085, 3167 AND 3263

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

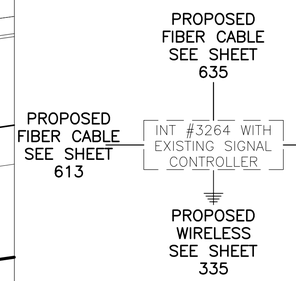
314
1107

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E BROAD ST AT WAGGONER RD - 3264

INTERSECTION COMMUNICATIONS

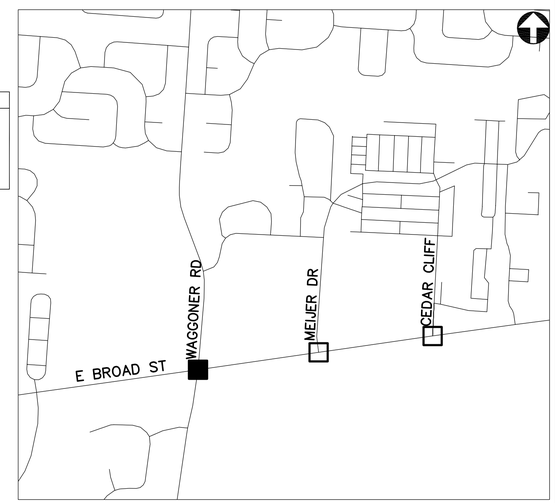


NOTES:

1. SEE SHEETS 613 AND 635 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 320 FOR INTERSECTION QUANTITIES
3. SEE SHEET 905 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC
5. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP–CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

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- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

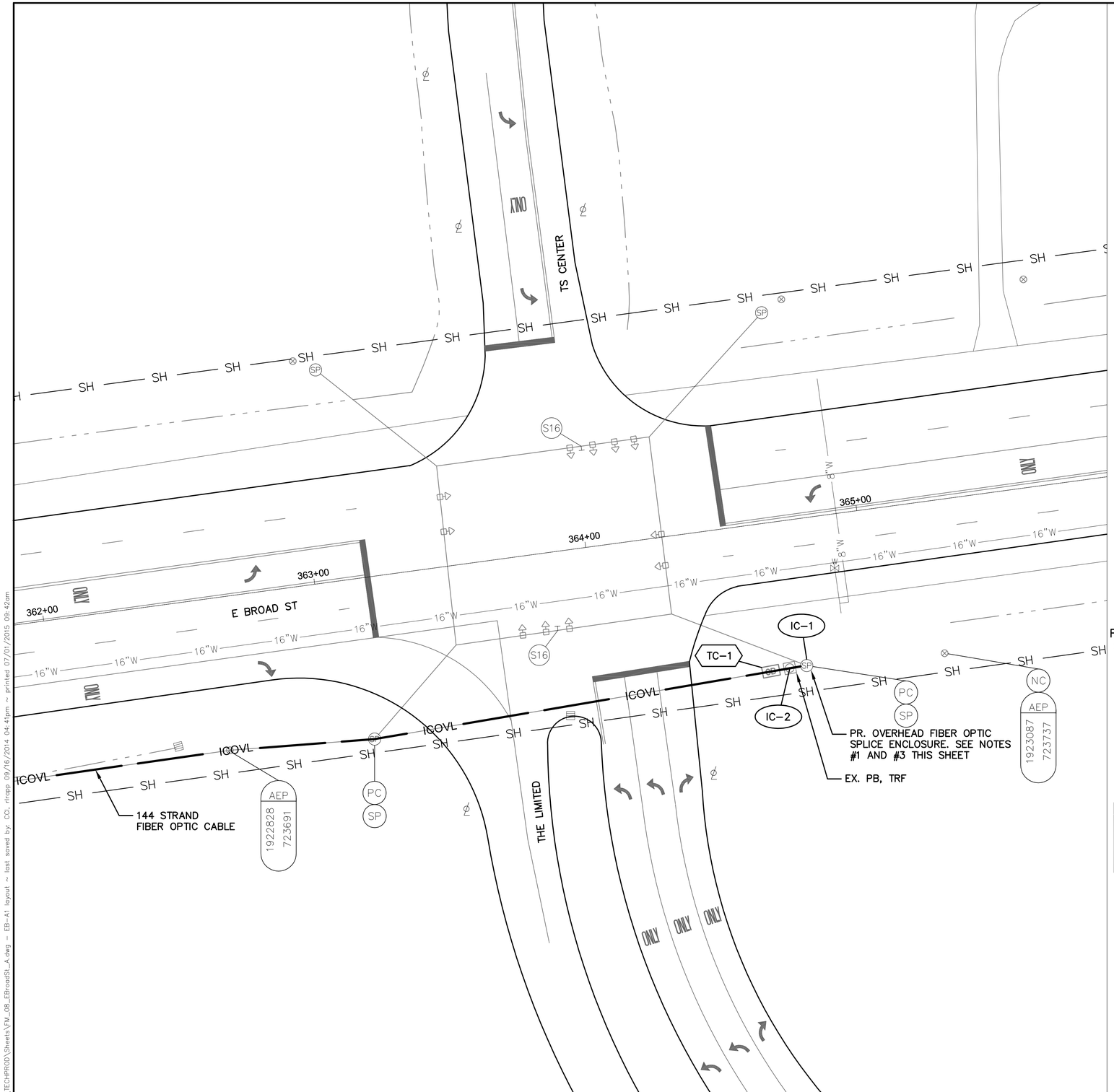
PID NUMBER
13034

E BROAD ST AT WAGGONER RD
INTERSECTION 3264

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

315
1107

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PROPOSED FIBER CABLE SEE SHEET 615

INT #3265 WITH EXISTING SIGNAL CONTROLLER

INTERSECTION COMMUNICATIONS

NOTES:

1. SEE SHEET 615 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 320 FOR INTERSECTION QUANTITIES
3. SEE SHEET 906 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

E BROAD ST AT THE LIMITED AND TS CENTER - 3265

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT THE LIMITED AND TS CENTER
INTERSECTION 3265

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

316
1107

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INTERSECTION COMMUNICATIONS

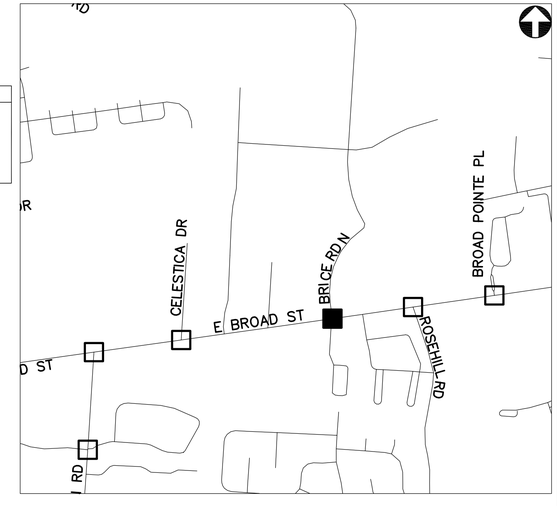
PROPOSED FIBER CABLE SEE SHEET 608 — INT #3267 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 608

NOTES:

1. SEE SHEET 608 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 320 FOR INTERSECTION QUANTITIES
3. SEE SHEET 907 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BRICE RD AT E BROAD ST - 3267

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

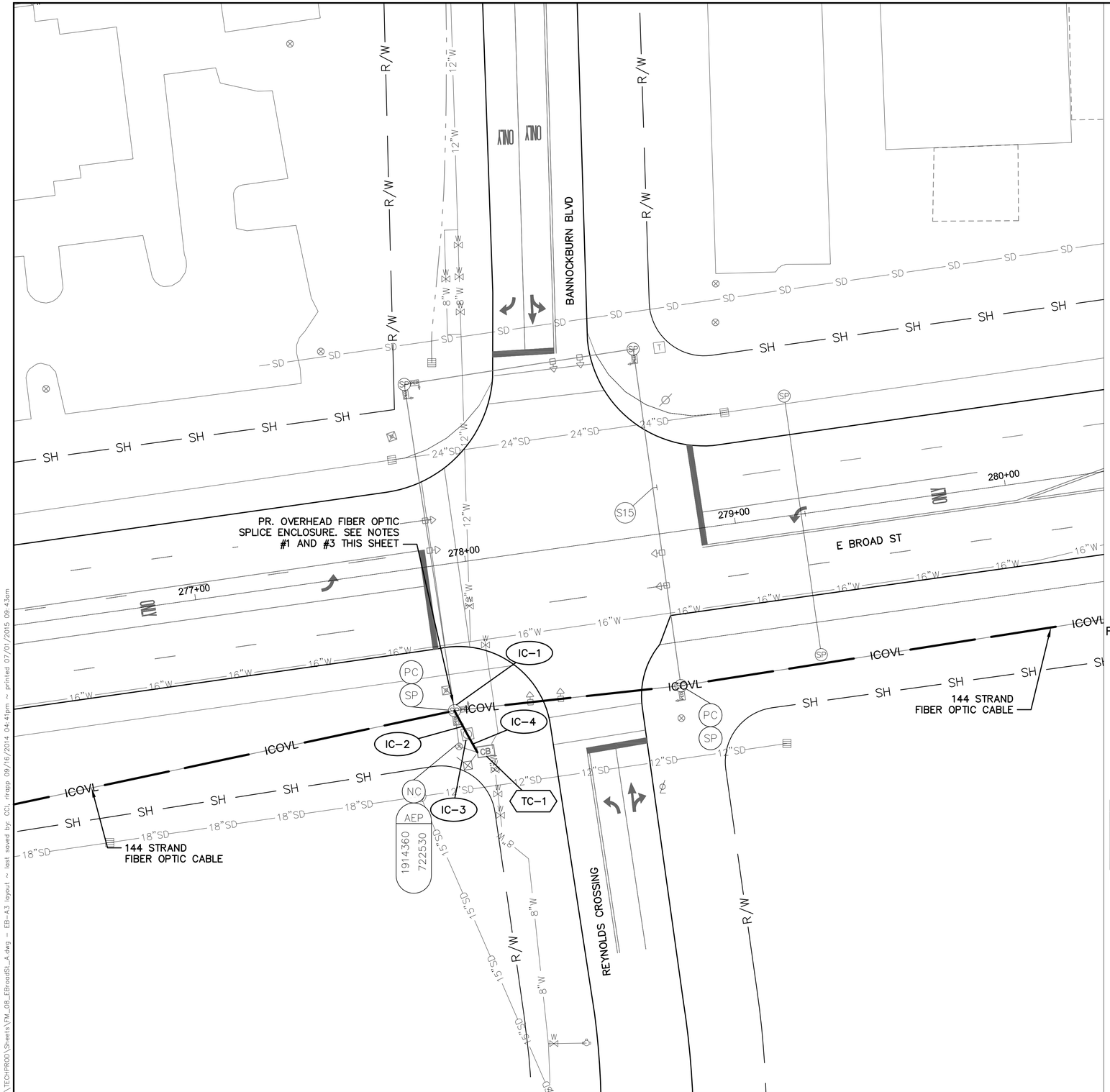
PID NUMBER 13034

BRICE RD AT E BROAD ST
INTERSECTION 3267

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

317
1107

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INTERSECTION COMMUNICATIONS

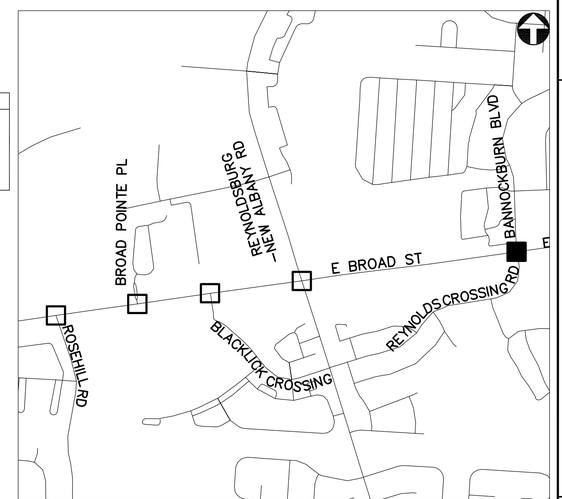
PROPOSED FIBER CABLE SEE SHEET 611 — INT #3274 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 611

NOTES:

1. SEE SHEET 611 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 320 FOR INTERSECTION QUANTITIES
3. SEE SHEET 908 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BANNOCKBURN BLVD AT E BROAD ST - 3274

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

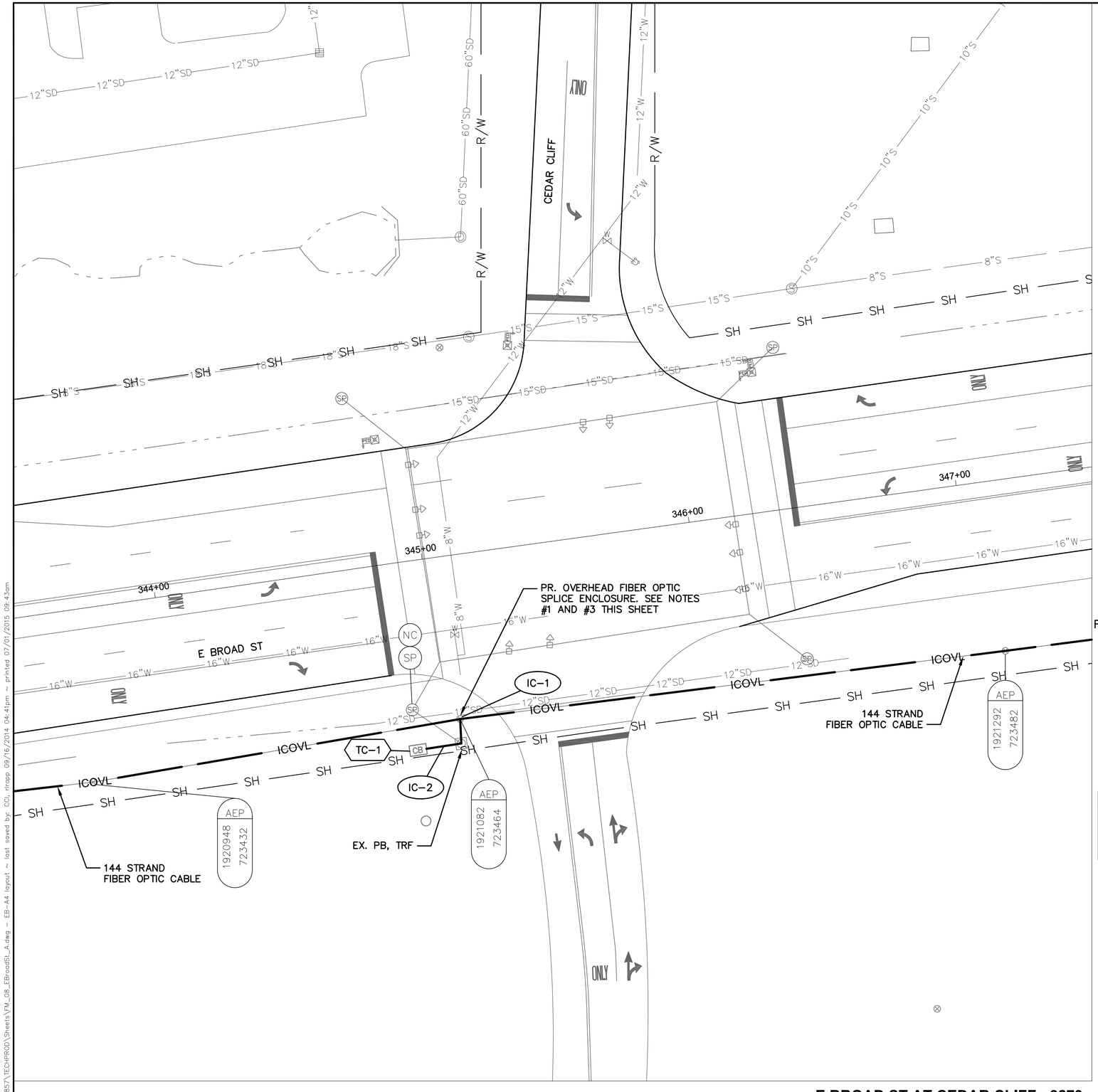
PID NUMBER 13034

BANNOCKBURN BLVD AT E BROAD ST
INTERSECTION 3274

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

318
1107

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INTERSECTION COMMUNICATIONS

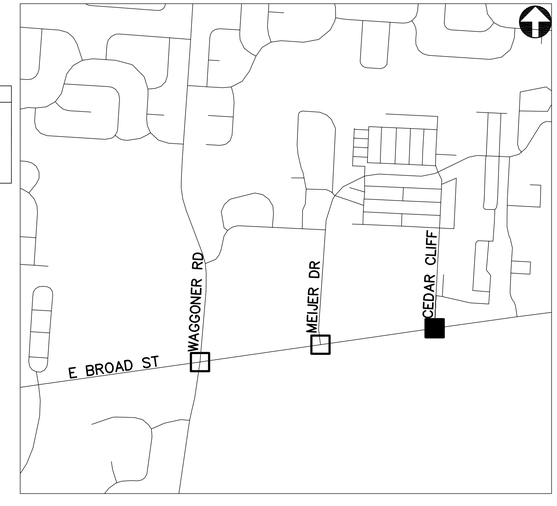
PROPOSED FIBER CABLE SEE SHEET 614 — INT #3279 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 614

NOTES:

1. SEE SHEET 614 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 320 FOR INTERSECTION QUANTITIES
3. SEE SHEET 909 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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- LIGHTING



KEY PLAN
NOT TO SCALE

E BROAD ST AT CEDAR CLIFF - 3279

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

E BROAD ST AT CEDAR CLIFF
INTERSECTION 3279

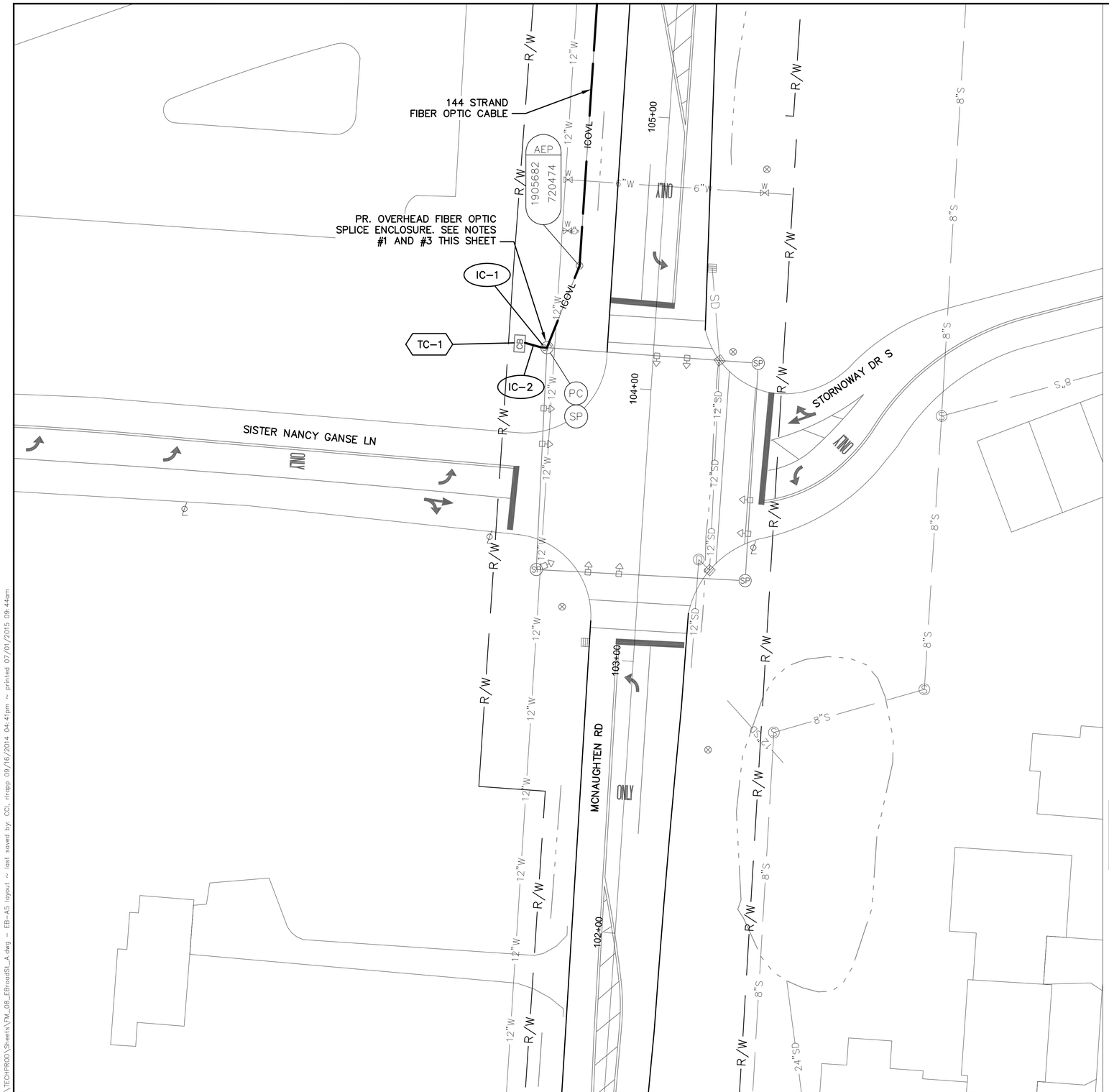
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

319
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	625 BRACKET ARM, 30', AS PER PLAN (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM (EACH)	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER (EACH)	633 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED (FT)	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION (EACH)	815 SPREAD SPECTRUM RADIO, AS PER PLAN (EACH)
INTERSECTION 3264: E. BROAD ST. AT WAGGONER RD.															
315	IC-1	318+59, 65' RT										110			
315	IC-2	318+59, 65' RT	318+46, 65' RT									23			
315	TC-1	318+46, 65' RT					3	1	1					1	
315	EC-1	318+46, 65' RT	318+59, 65' RT							23					
315	EC-2	318+59, 65' RT								35					
315	EC-3	318+59, 65' RT	318+85, 72' RT	1						27					
315	WR-1	318+85, 72' RT													1
315	IC-3	318+59, 65' RT	320+02, 45' RT		145										
315	CTV-1	320+02, 45' RT				1									
315	PULL BOX SLACK									5		10			
INTERSECTION 3265: E. BROAD ST. AT THE LIMITED & TS CENTER															
316	IC-1	364+74, 54' RT									110				
316	IC-2	364+74, 54' RT	364+61, 54' RT								23				
316	TC-1	364+61, 54' RT					2	1	1				1		
316	PULL BOX SLACK										10				
INTERSECTION 3267: BRICE RD. AT E. BROAD ST.															
317	IC-1	218+55, 45' RT									110				
317	IC-2	218+55, 45' RT	218+67, 48' RT								23				
317	TC-1	218+67, 48' RT					2	1	1				1		
317	PULL BOX SLACK										10				
INTERSECTION 3274: BANNOCKBURN BLVD. AT E. BROAD ST.															
318	IC-1	277+88, 54' RT									110				
318	IC-2	277+88, 54' RT	277+88, 67' RT		13						10				
318	IC-3	277+88, 67' RT													
318	IC-4	277+88, 67' RT	277+98, 70' RT								18				
318	TC-1	277+98, 70' RT					2	1	1				1		
318	PULL BOX SLACK										10				
INTERSECTION 3279: E. BROAD ST. AT CEDAR CLIFF															
319	IC-1	345+06, 61' RT									110				
319	IC-2	345+06, 61' RT	344+88, 70' RT								35				
319	TC-1	344+88, 70' RT					2	1	1				1		
319	PULL BOX SLACK										10				



INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 615

INT #SIG4790 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 615 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 324 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1060 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

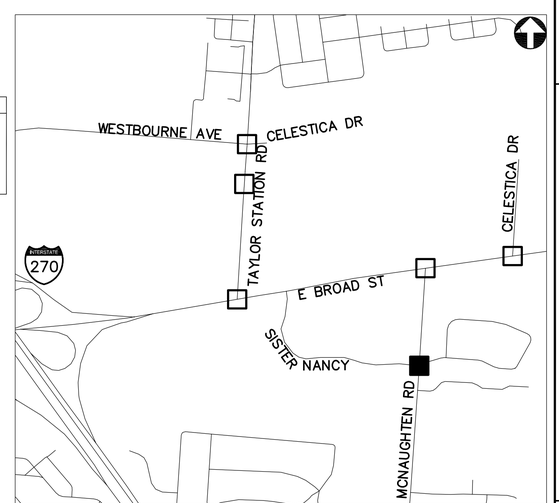
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KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

MCNAUGHTEN RD AT SISTER NANCY GANSE LN AND STORNOWAY DR
INTERSECTION SIG4790

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

321
1107

MCNAUGHTEN RD AT SISTER NANCY GANSE LN AND STORNOWAY DR - SIG4790

2762 DR. E

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PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

NC
AEP
1918344
727919

IC-1
IC-2
IC-3
EC-1
IC-4
EC-2
TC-1
EX. PB, TRF
WR-1
EC-3

WAGGONER RD
CHAPEL STONE RD
ICNEW
C5NEW
ONLY
1068+00
1067+00
1066+00
1065+00

R/W
30"W
12"W
12"SD
18"SD
24"SD
8"S
PC
SP
FES
TB

CHAPEL STONE RD AT WAGGONER RD - 3303

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 323

INT #3303 WITH EXISTING SIGNAL CONTROLLER

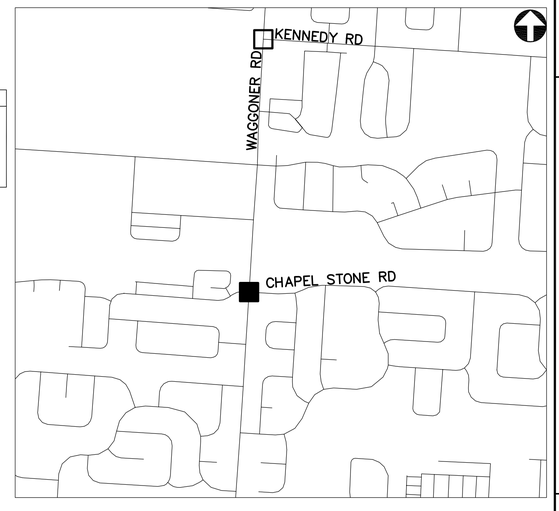
PROPOSED FIBER CABLE SEE SHEET 636

NOTES:

1. SEE SHEET 636 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 324 FOR INTERSECTION QUANTITIES
3. SEE SHEET 912 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES
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KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

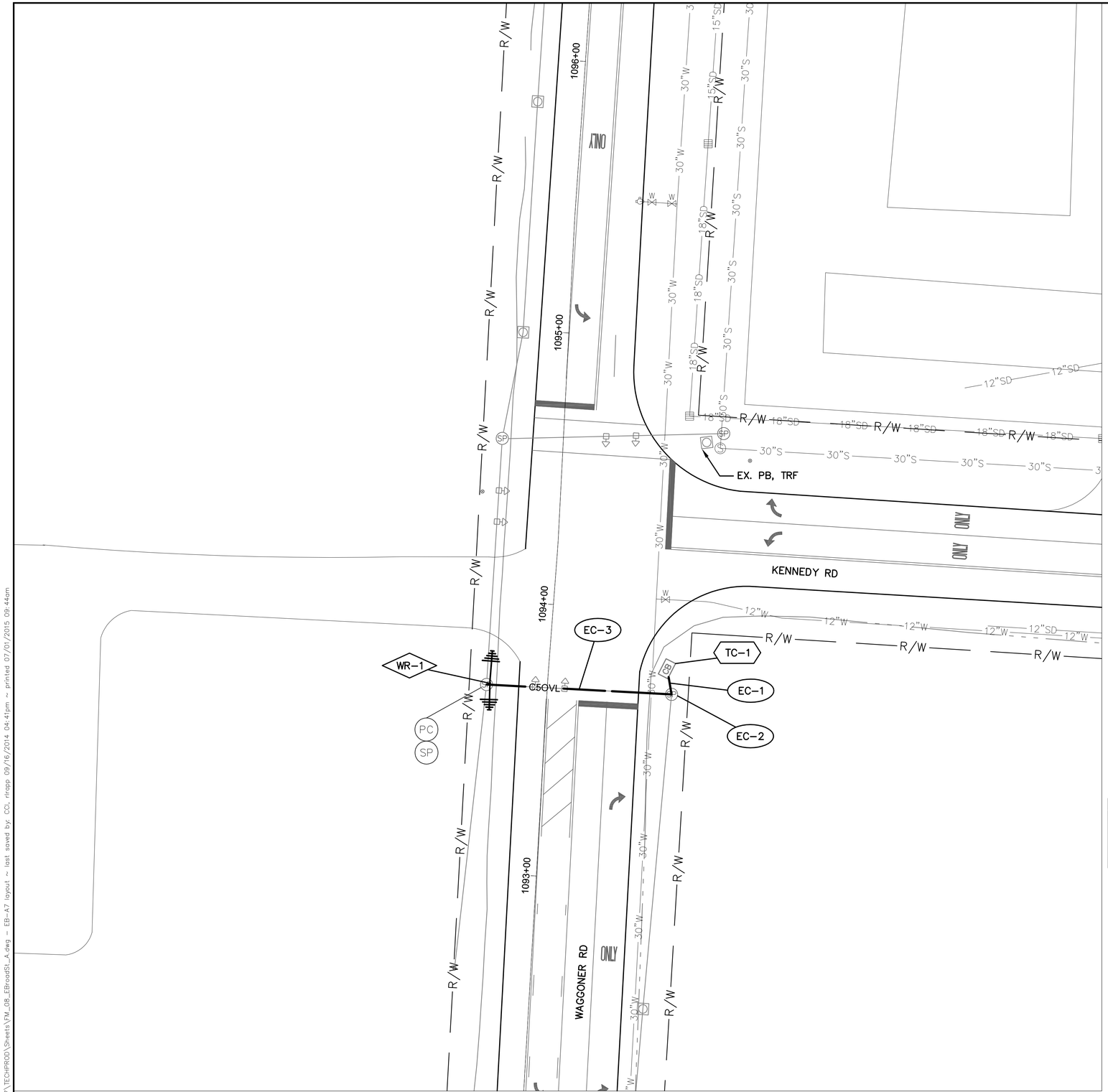
PID NUMBER 13034

CHAPEL STONE RD AT WAGGONER RD
INTERSECTION 3303

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

322
1107

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KENNEDY RD AT WAGGONER RD - 3306

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 333

INT #3306 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 322

NOTES:

1. SEE SHEET 324 FOR INTERSECTION QUANTITIES
2. SEE SHEET 913 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

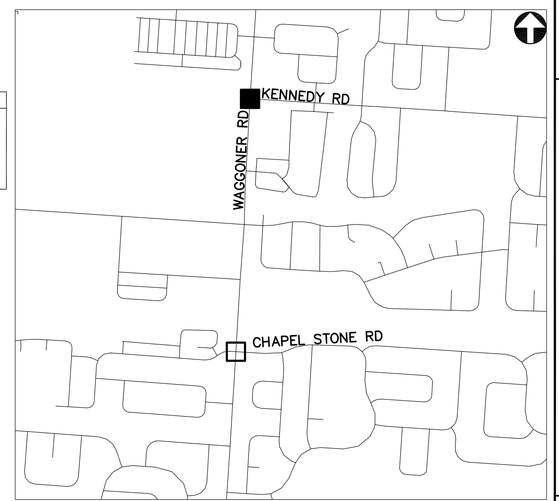
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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

KENNEDY RD AT WAGGONER RD INTERSECTION 3306

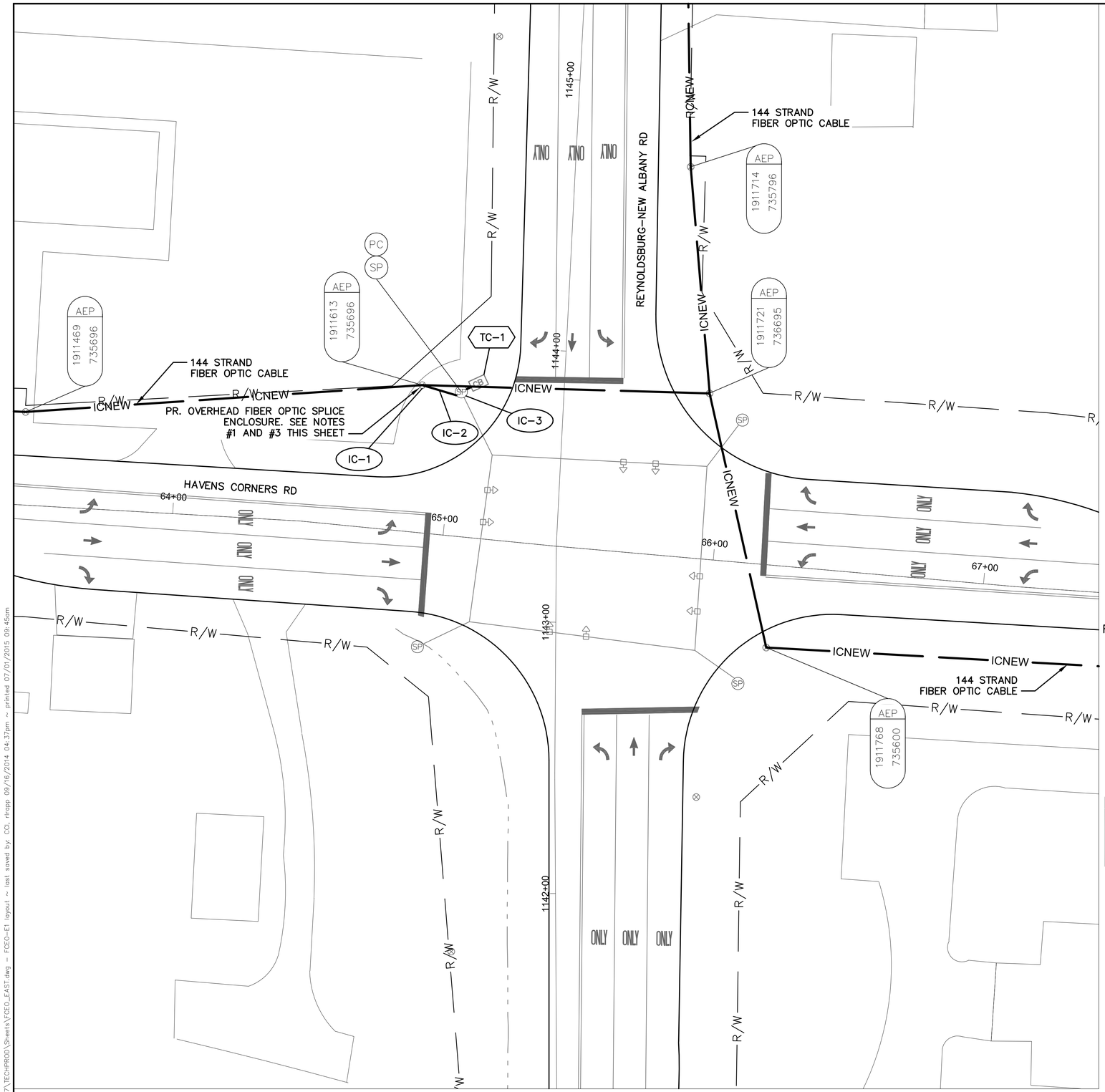
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

323 / 1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	804	804	815												
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: OVERLASH TO EXISTING INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN										
		FROM	TO	FT	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH												
INT. SIG4790: MC NAUGHTEN RD. AT SISTER N GANSE LN. & STORNOWAY DR.																									
321	IC-1	104+13, 43' LT									110														
321	IC-2	104+13, 43' LT	104+13, 55' LT								23														
321	TC-1	104+13, 55' LT			1		1	1				1													
INTERSECTION 3303: CHAPLE STONE RD. AT WAGGONER RD.																									
322	IC-1	1066+82, 32' LT									75														
322	IC-2	1066+82, 32' LT	1066+81, 27' RT	58							58														
322	IC-3	1066+81, 27' RT									35														
322	IC-4	1066+81, 27' RT	1066+94, 30' RT								28														
322	TC-1	1066+94, 30' RT			1		1	1				1													
322	EC-1	1066+94, 30' RT	1066+81, 27' RT						28																
322	EC-2	1066+81, 27' RT							35																
322	EC-3	1066+81, 27' RT	1065+86, 36' LT	157					157																
322	WR-1	1065+86, 36' LT											1												
322	PULL BOX SLACK								5		10														
INTERSECTION 3306: KENNEDY RD. AT WAGGONER RD.																									
323	TC-1	1093+80, 43' RT				1	1																		
323	EC-1	1093+80, 43' RT	1093+70, 46' RT						40																
323	EC-2	1093+70, 46' RT							70																
323	EC-3	1093+70, 46' RT	1093+69, 22' LT						136	68															
323	WR-1	1093+69, 22' LT											2												



INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 640 — INT #SIG4180 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 640

PROPOSED FIBER CABLE SEE SHEET 630

NOTES:

1. SEE SHEETS 640 AND 630 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 330 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1057 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

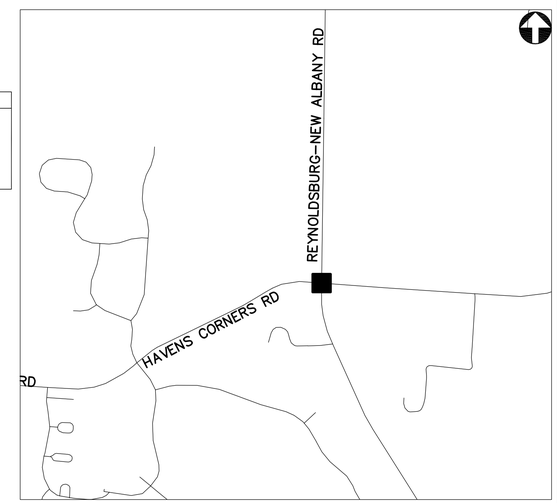
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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

HAVENS CORNERS RD AT REYNOLDSBURG-NEW ALBANY RD - SIG4180

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

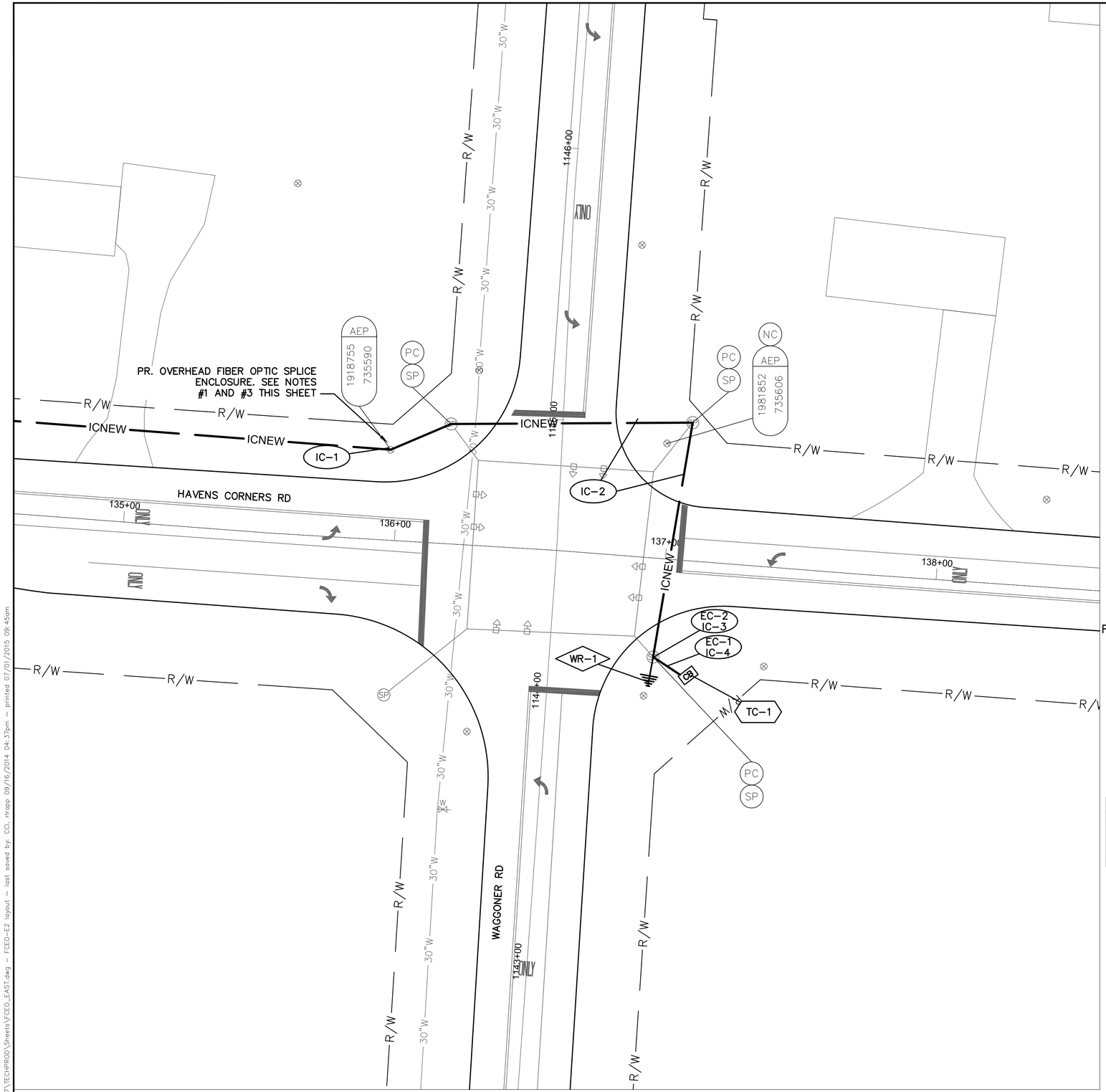
PID NUMBER 13034

HAVENS CORNERS RD AT REYNOLDSBURG-NEW ALBANY RD INTERSECTION SIG4180

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

325
1107

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INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 643

INT #SIG4795 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 333

NOTES:

1. SEE SHEET 643 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 330 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1061 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

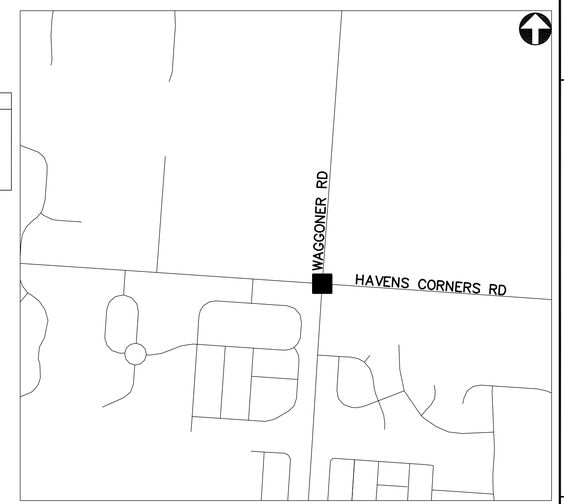
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- ☐ WATER
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KEY PLAN
NOT TO SCALE

HAVENS CORNERS RD AT WAGGONER RD - SIG4795

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HAVENS CORNERS RD AT WAGGONER RD INTERSECTION SIG4795

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

326
1107

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144 STRAND FIBER OPTIC CABLE

TAYLOR RD

PR. OVERHEAD FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

TAYLOR STATION RD

EX. PB, TRF

AEP 1906176 729333

AEP 1906278 729199

IC-1 IC-2 IC-3 IC-4 TC-1

ICNEW

R/W

PC SP NC

18"S

ONLY

89+00 88+00 87+00

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 622

INT #SIG4815 WITH PROPOSED SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 622

NOTES:

1. SEE SHEETS 622 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 330 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1062 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

TAYLOR RD AT TAYLOR STATION RD - SIG4815

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

TAYLOR RD AT TAYLOR STATION RD
INTERSECTION SIG4815

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

327
1107

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INTERSECTION COMMUNICATIONS

INT #SIG4820 WITH PROPOSED SIGNAL CONTROLLER

- PROPOSED FIBER CABLE SEE SHEET 638
- PROPOSED FIBER CABLE SEE SHEET 624

NOTES:

1. SEE SHEETS 624 AND 638 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 330 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1063 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

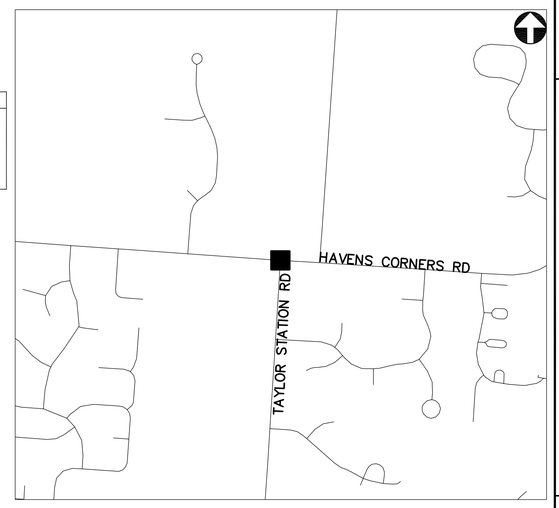
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OHIO UTILITIES PROTECTION SERVICE

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

HAVENS CORNERS RD AT TAYLOR STATION RD - SIG4820

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

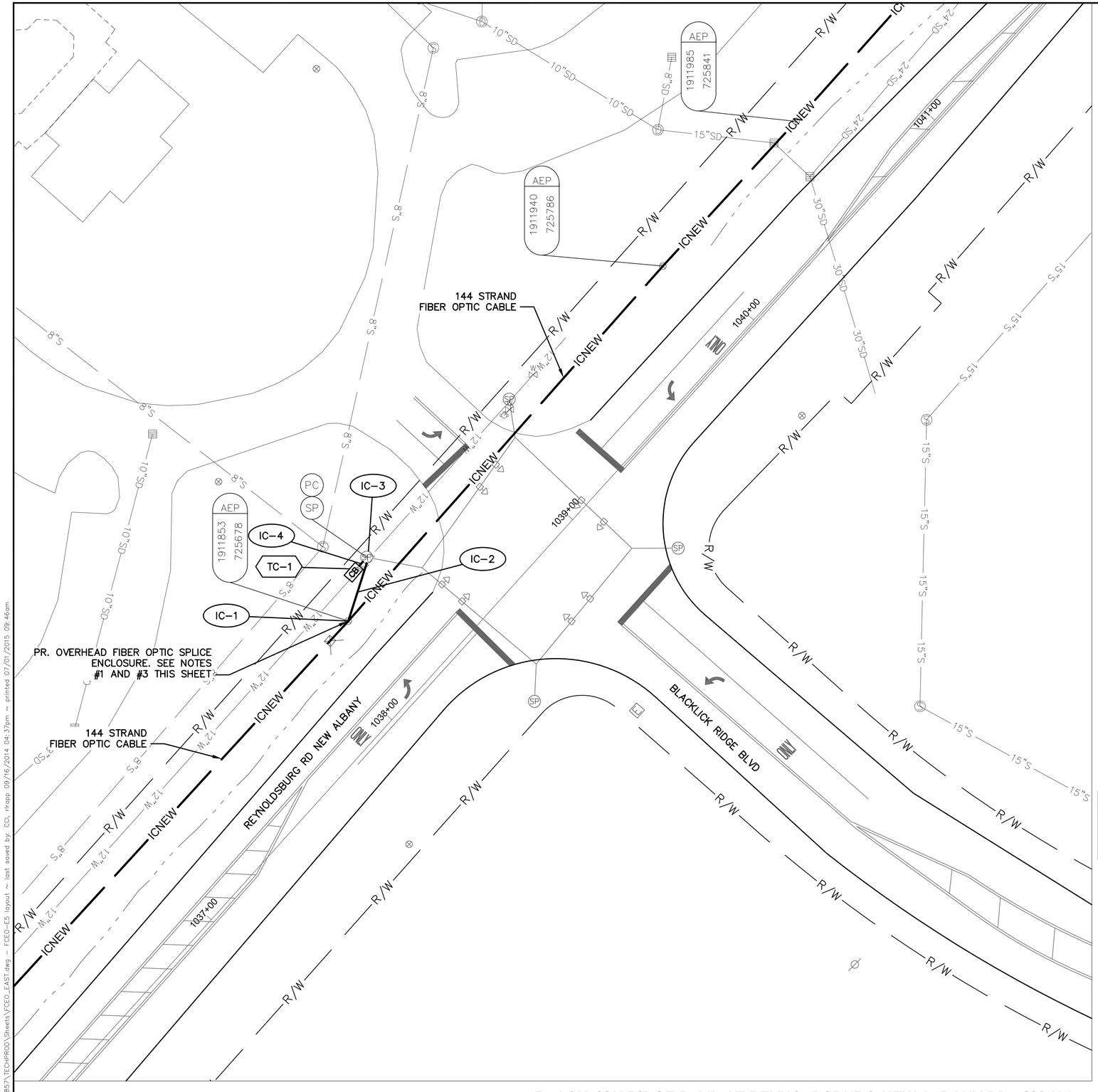
PID NUMBER 13034

HAVENS CORNERS RD AT TAYLOR STATION RD INTERSECTION SIG4820

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

328
1107

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INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
627

INT #SIG4845 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
627

NOTES:

1. SEE SHEET 627 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 330 FOR INTERSECTION QUANTITIES

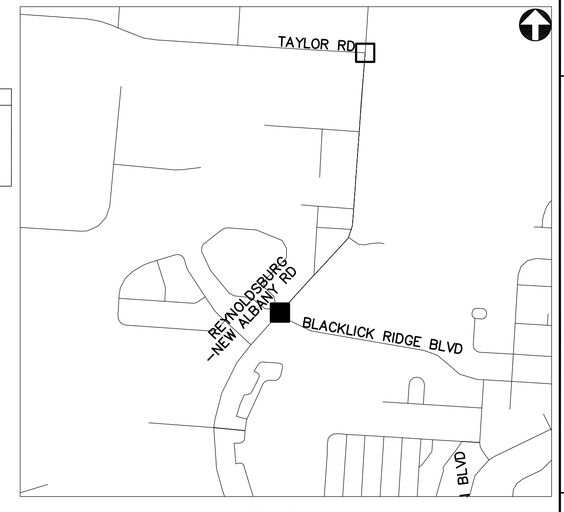
3. SEE SHEET 1065 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CONTACT FCEO AND PROJECT ENGINEER AT LEAST ONE WEEK IN ADVANCE OF INTERSECTION WORK TO COORDINATE CONFIGURATION OF SIGNAL CONTROLLER AND FOR PROPOSED CABINET WIRE DIAGRAM.

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KEY PLAN
NOT TO SCALE

BLACKLICK RIDGE BLVD AT REYNOLDSBURG-NEW ALBANY RD - SIG4845

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

BLACKLICK RIDGE BLVD AT REYNOLDSBURG-NEW ALBANY RD
INTERSECTION SIG4845

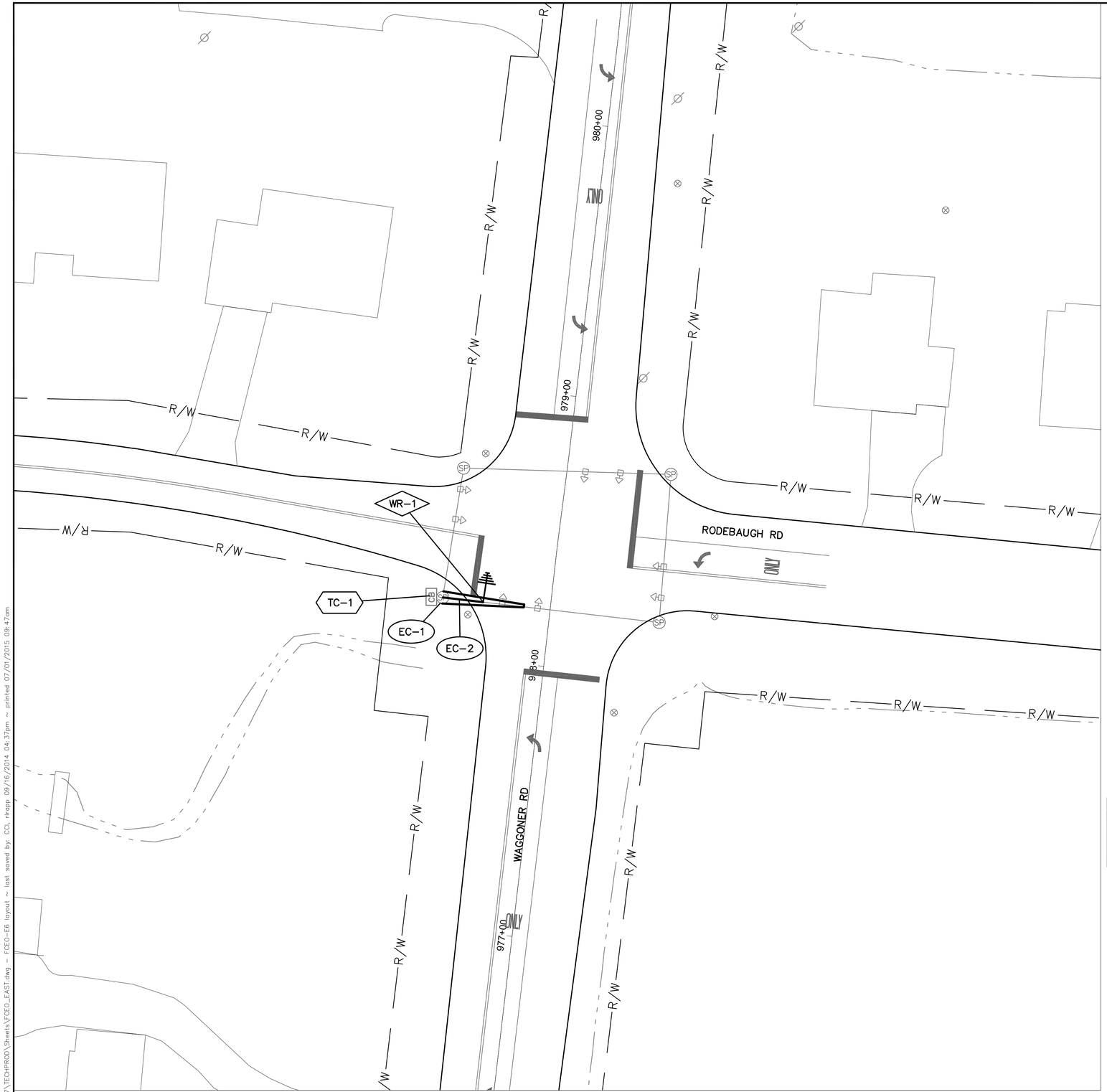
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

329
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	804	804	804	804	815												
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: 48 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 48 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN											
		FROM	TO	FT	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH												
INT. SIG4180: HAVENS CORNERS RD. AT REYNOLDSBURG NEW ALBANY RD.																										
325	IC-1	64+87, 54' LT									75															
325	IC-2	64+87, 54' LT	65+02, 53' LT	15							15															
325	IC-3	65+02, 53' LT									35															
325	TC-1	65+02, 53' LT			3	1	1						1													
INTERSECTION SIG4795: HAVENS CORNERS RD. AT WAGGONER RD.																										
326	IC-1	135+97, 33' LT								75																
326	IC-2	135+97, 33' LT	136+98, 36' RT	201						201																
326	IC-3	136+98, 36' RT								35																
326	IC-4	136+98, 36' RT	137+12, 42' RT							25																
326	TC-1	137+12, 42' RT			2	1		1				1														
326	EC-1	137+12, 42' RT	136+98, 36' RT						25																	
326	EC-2	136+98, 36' RT							35																	
326	WR-1	136+98, 36' RT												1												
INTERSECTION SIG4815: TAYLOR RD. AT TAYLOR STATION RD.																										
327	IC-1	88+07, 60' LT								75																
327	IC-2	88+07, 60' LT	88+06, 51' RT	111						111																
327	IC-3	88+06, 51' RT								35																
327	IC-4	88+06, 51' RT	88+01, 57' RT							25																
327	TC-1	88+01, 57' RT			2	1		1				1														
327	PULL BOX SLACK									10																
INTERSECTION SIG4820: HAVENS CORNERS RD. AT TAYLOR STATION RD.																										
328	IC-1	141+36, 45' LT								75																
328	IC-2	141+36, 45' LT	141+39, 70' LT	25						25																
328	IC-3	141+39, 70' LT								35																
328	IC-4	141+39, 70' LT	141+35, 61' LT							20																
328	TC-1	141+35, 61' LT			2	1		1				1														
INT. SIG4845: BLACKLICK RIDGE BLVD. AT REYNOLDSBURG NEW ALBANY RD.																										
329	IC-1	1038+16, 37' LT								75																
329	IC-2	1038+16, 37' LT	1038+38, 47' LT	25						25																
329	IC-3	1038+38, 47' LT								35																
329	IC-4	1038+38, 47' LT	1038+31, 47' LT							17																
329	TC-1	1038+31, 47' LT			2	1		1				1														



INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 335

INT #SIG4855 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 336 FOR INTERSECTION QUANTITIES
2. SEE SHEET 1066 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

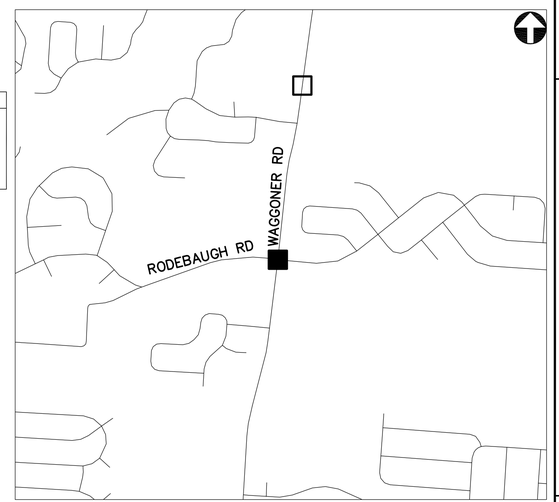
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KEY PLAN
NOT TO SCALE

RODEBAUGH RD AT WAGGONER RD - SIG4855

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

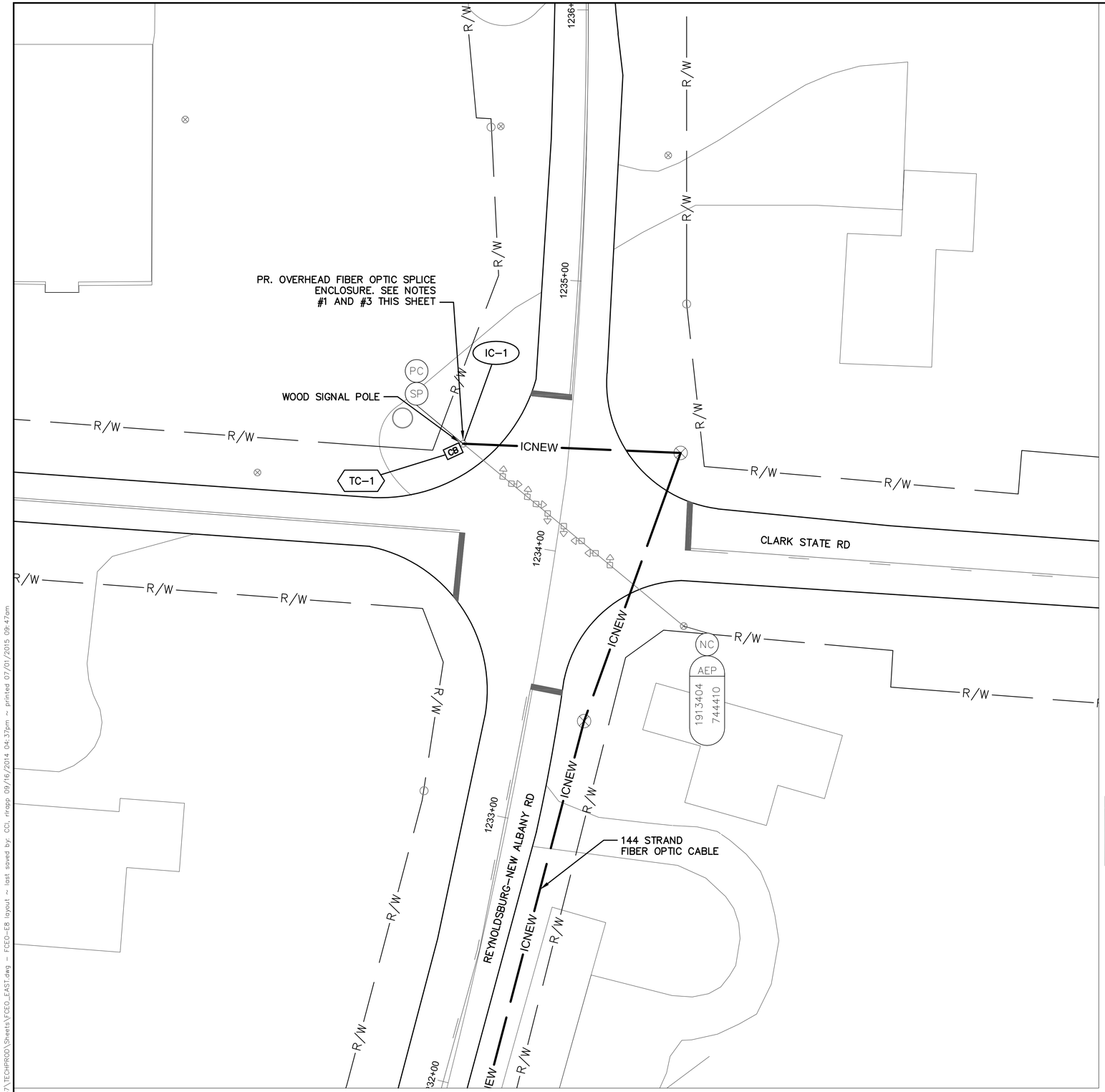
PID NUMBER 13034

RODEBAUGH RD AT WAGGONER RD INTERSECTION SIG4855

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

331
1107

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INTERSECTION COMMUNICATIONS

INT #SIG4050 WITH PROPOSED SIGNAL CONTROLLER

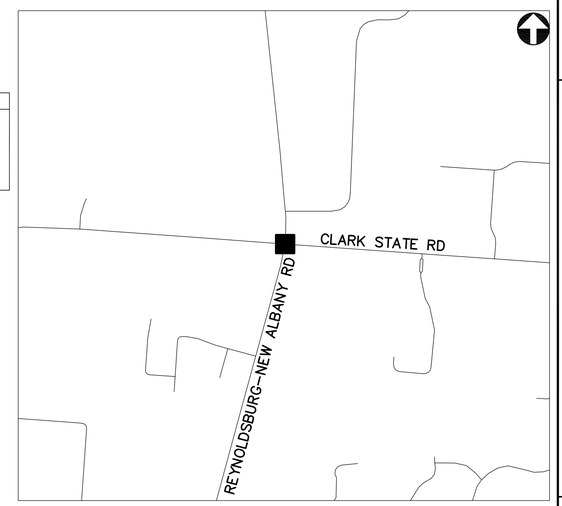
PROPOSED FIBER CABLE SEE SHEET 633

NOTES:

1. SEE SHEET 633 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 336 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1050 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. CONTACT FCEO AND PROJECT ENGINEER AT LEAST ONE WEEK IN ADVANCE OF INTERSECTION WORK TO COORDINATE CONFIGURATION OF SIGNAL CONTROLLER AND FOR PROPOSED CABINET WIRE DIAGRAM

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KEY PLAN
NOT TO SCALE

CLARK STATE RD AT REYNOLDSBURG-NEW ALBANY RD - SIG4050

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

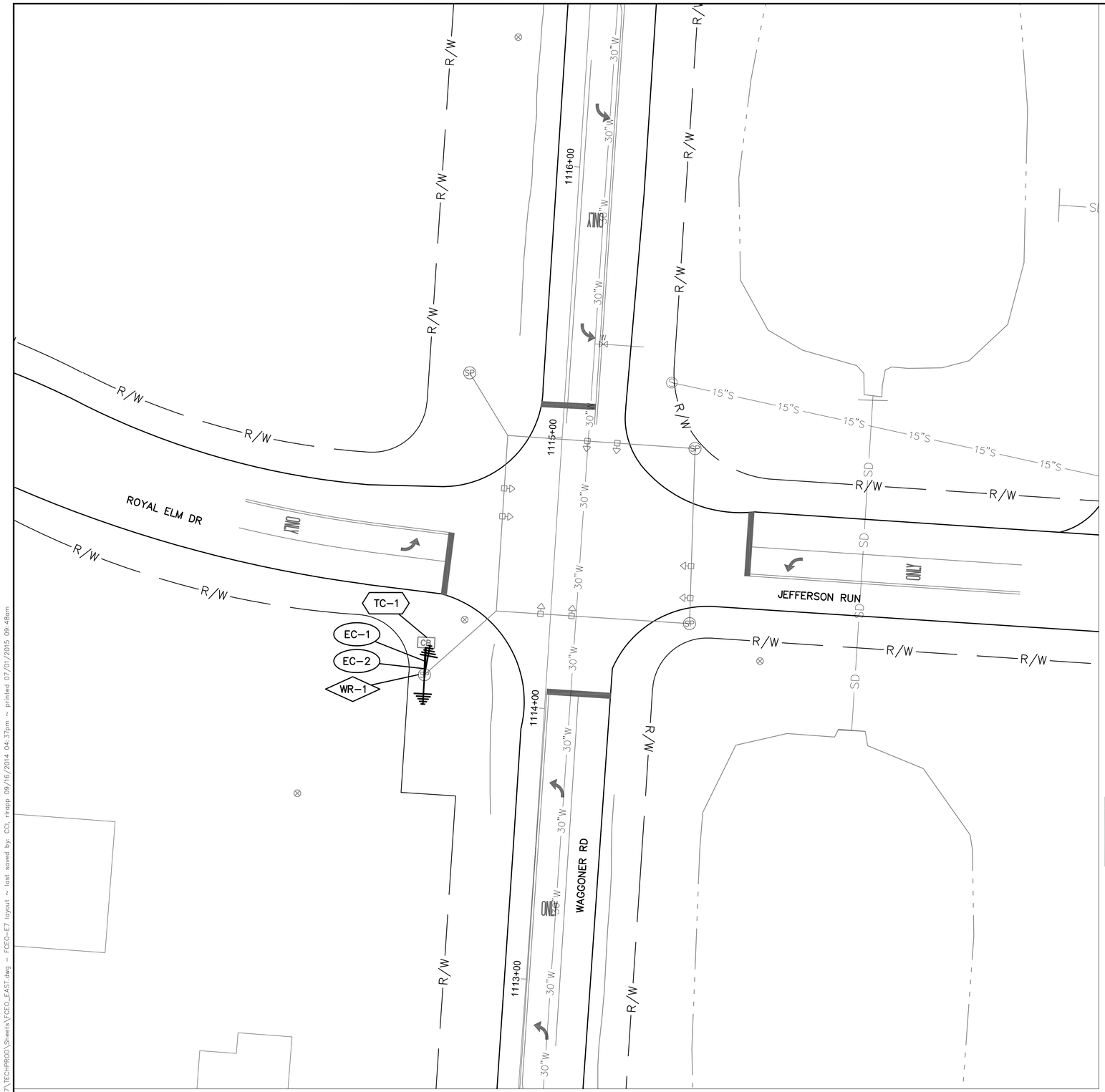
PID NUMBER 13034

CLARK STATE RD AT REYNOLDSBURG-NEW ALBANY RD INTERSECTION SIG4050

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

332
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 326

INT #SIG4840 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 323

NOTES:

1. SEE SHEET 336 FOR INTERSECTION QUANTITIES
2. SEE SHEET 1064 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

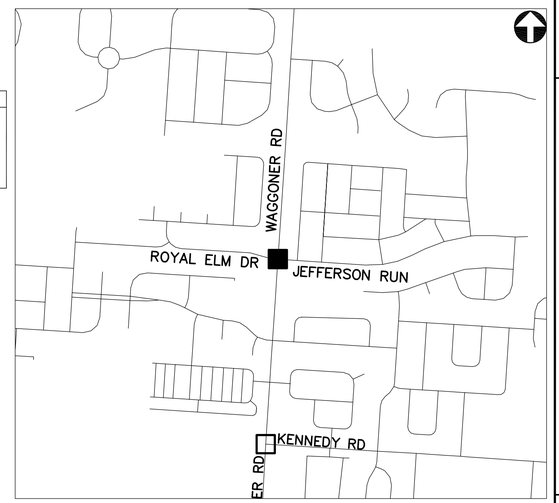
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CITY OF COLUMBUS UTILITY LEGEND

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- ☐ WATER
- ☐ POWER
- ☐ LIGHTING



KEY PLAN
NOT TO SCALE

JEFFERSON RUN AND ROYAL ELM DR AT WAGGONER RD - SIG4840

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

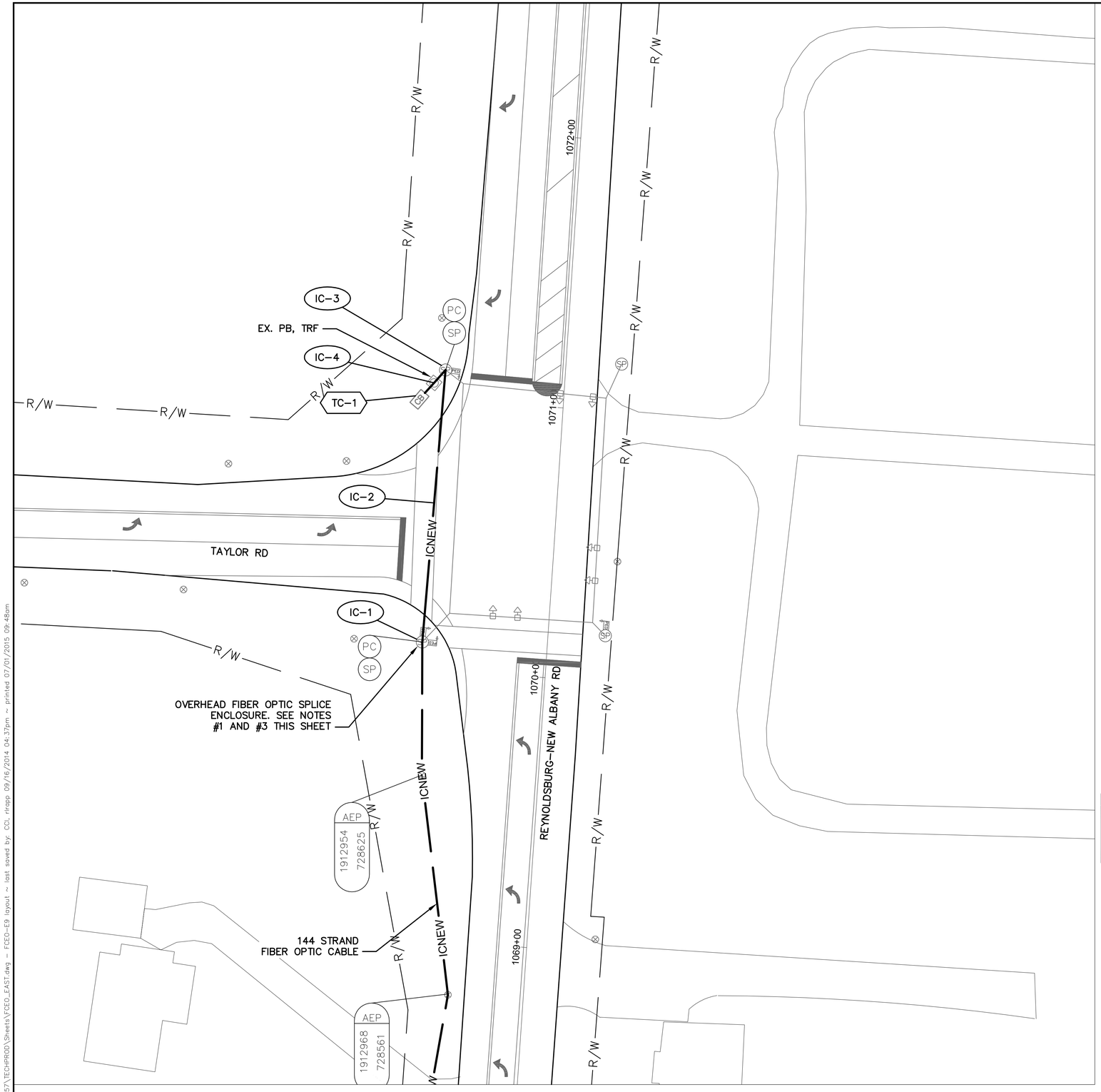
PID NUMBER 13034

JEFFERSON RUN AND ROYAL ELM DR AT WAGGONER RD INTERSECTION SIG4840

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

333
1107

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INTERSECTION COMMUNICATIONS

INT #SIG4875 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 629

NOTES:

1. SEE SHEET 629 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 336 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1067 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

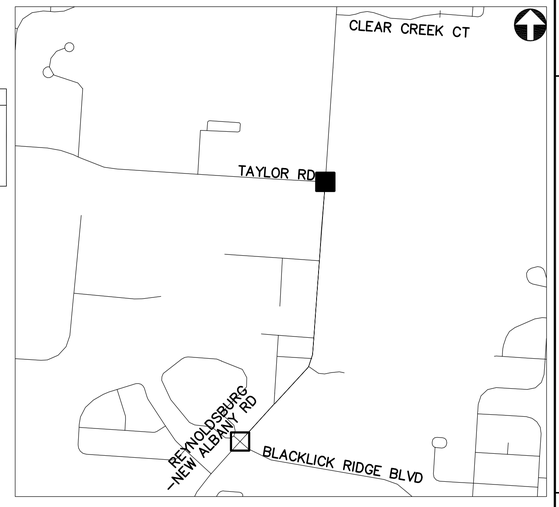
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

REYNOLDSBURG-NEW ALBANY RD AT TAYLOR RD - SIG4875

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

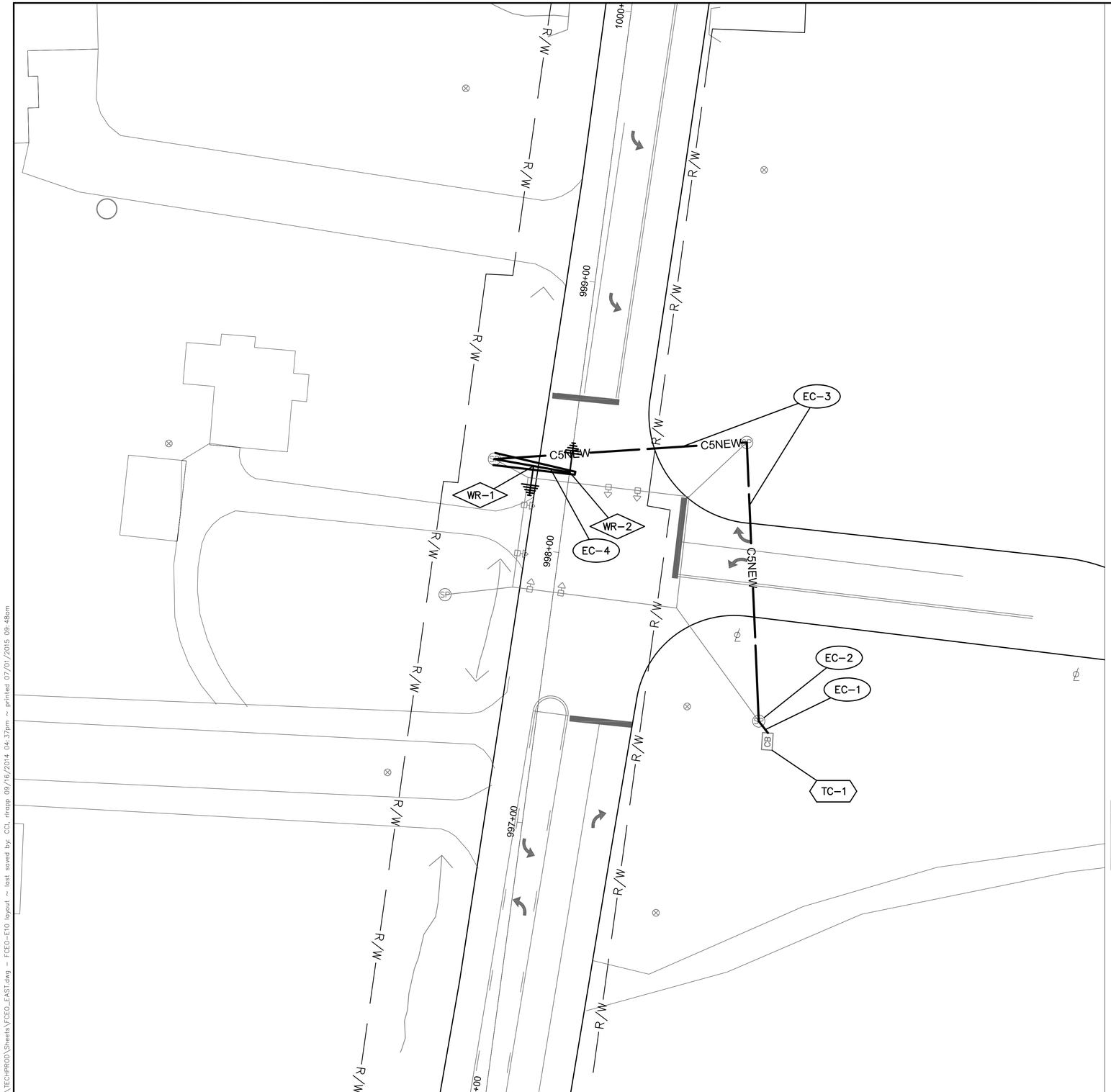
PID NUMBER 13034

REYNOLDSBURG-NEW ALBANY RD AT TAYLOR RD
INTERSECTION SIG4875

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

334
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 315

INT #SIG4890 WITH EXISTING SIGNAL CONTROLLER

PROPOSED WIRELESS SEE SHEET 310

NOTES:

1. SEE SHEET 336 FOR INTERSECTION QUANTITIES
2. SEE SHEET 1078 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

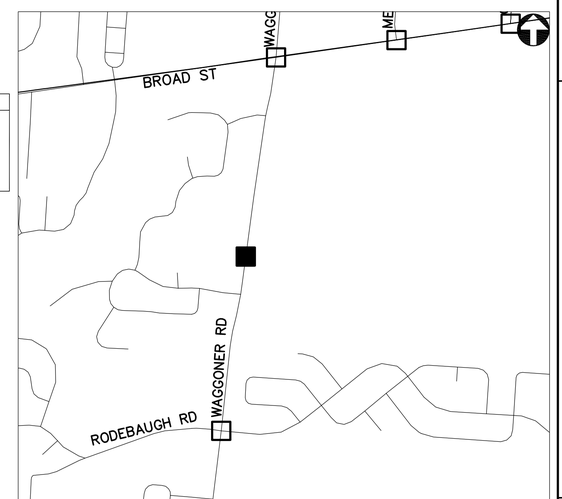
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

WAGGONER RD AT WAGGONER RD SCHOOL - SIG4890

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

WAGGONER RD AT WAGGONER RD SCHOOL INTERSECTION SIG4890

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

335
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	625 BRACKET ARM, 30', AS PER PLAN (EACH)	632 CONDUIT, 2" RISER, AS PER PLAN (EACH)	632 MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES (FT)	633 CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER (EACH)	633 CONTROLLER ITEM, MISC.; INTERNAL ETHERNET MODULE (EACH)	633 CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH (EACH)	633 CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER (EACH)	633 CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN (EACH)	633 INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED (FT)	804 FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE (FT)	804 FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION (EACH)	815 SPREAD SPECTRUM RADIO, AS PER PLAN (EACH)
INTERSECTION SIG4855: RODEBAUGH RD. AT WAGGONER RD.															
331	TC-1	978+21, 44' LT						1	1						
331	EC-1	978+21, 44' LT										35			
331	EC-2	978+21, 44' LT	978+21, 25' LT									15			
331	WR-1	978+21, 25' LT		1											1
INT. SIG4050: CLARK STATE RD. AT REYNOLDSBURG NEW ALBANY RD.															
332	IC-1	1234+36, 39' LT			1								110		
332	TC-1	1234+36, 39' LT					1		1		1			1	
INT. SIG4840: JEFFERSON RUN & ROYAL ELM DR. AT WAGGONER RD.															
333	TC-1	1114+21, 45' LT							1	1					
333	EC-1	1114+21, 45' LT	1114+10, 45' LT									42			
333	EC-2	1114+10, 45' LT										70			
333	WR-1	1114+10, 45' LT													2
INTERSECTION SIG4875: REYNOLDSBURG-NEW ALBANY RD AT TAYLOR RD															
334	IC-1	1070+10, 46' LT											75		
334	IC-2	1070+10, 46' LT	1071+11, 44' LT			101							101		
334	IC-3	1071+11, 44' LT											35		
334	IC-4	1071+11, 44' LT	1071+00, 53' LT										24		
334	TC-1	1071+00, 53' LT					2	1	1					1	
334	PULL BOX SLACK												10		
INTERSECTION SIG4890: WAGGONER RD. AT WAGGONER RD. SCHOOL															
335	TC-1	997+41, 85' RT							1	1					
335	EC-1	997+41, 85' RT	997+49, 81' RT									38			
335	EC-2	997+49, 81' RT										70			
335	EC-3	997+49, 81' RT	998+30, 13' LT			195						420			
335	WR-1	998+30, 13' LT		1											1
335	EC-4	998+30, 13' LT	998+30, 00'									14			
335	WR-2	998+30, 00'													1
SHEET TOTAL				2	1	296	3	2	5	2	1	704	355	2	5

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS SIG4855, SIG4840, SIG4050 AND SIG4875

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

336
1107

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PR. COMBINATION STRAIN POLE W/BRACKET ARM AND FOUNDATION

EC-2
EC-1
TC-1
IC-1
IC-2
IC-3
EC-3
WR-1
EX. PB, TRF

P.B. W/ FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

144 STRAND FIBER OPTIC CABLE

FISHINGER RD

DUBLIN RD

UGFBR

12"W CTR0708 007

100+00 101+00 102+00 103+00

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 338

PROPOSED FIBER CABLE SEE SHEET 717

INT #SIG4100 WITH PROPOSED SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 717 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 339 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1055 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC
5. SEE SHEET 44 FOR PAVEMENT DETAILS
6. CONTACT FCEO AND PROJECT ENGINEER AT LEAST ONE WEEK IN ADVANCE OF INTERSECTION WORK TO COORDINATE CONFIGURATION OF SIGNAL CONTROLLER

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN RD AT FISHINGER RD
INTERSECTION - SIG4100

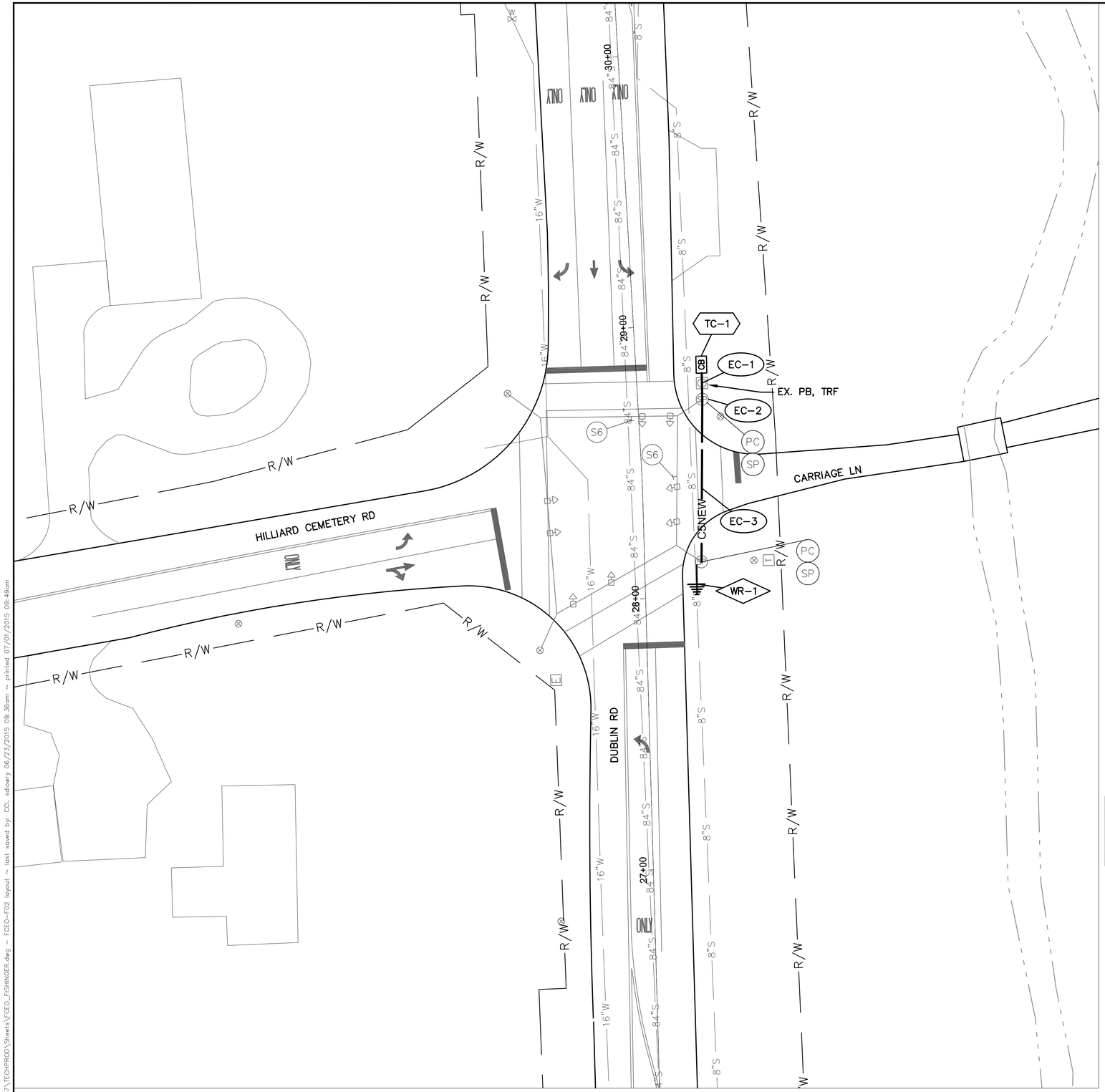
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

337
1107

DUBLIN RD AT FISHINGER RD - SIG4100

2762 DR. E

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INTERSECTION COMMUNICATIONS

INT #SIG4105 WITH PROPOSED SIGNAL CONTROLLER

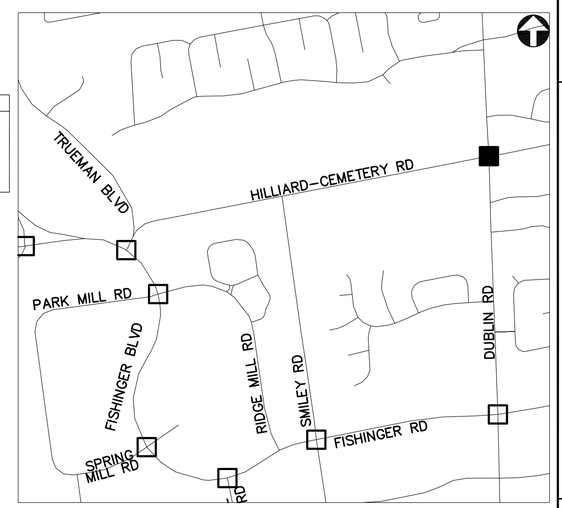
PROPOSED WIRELESS SEE SHEET 337

NOTES:

1. SEE SHEET 339 FOR INTERSECTION QUANTITIES
2. SEE SHEET 1056 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

DUBLIN RD AT HILLIARD CEMETERY RD - SIG4105

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

DUBLIN RD AT HILLIARD CEMETERY RD
INTERSECTION - SIG4105

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

338
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		202	625	625	625	632	632	632	633	633	633	633	804	804	815								
				EXISTING CONDUIT CLEANED, APP	BRACKET ARM, 30', AS PER PLAN	CONDUIT, 3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	STRAIN POLE FOUNDATION	STRAIN POLE, TYPE TC-81.10, DESIGN 6	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN								
		FROM	TO	FT	EACH	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH								
INTERSECTION SIG4100: DUBLIN RD. AT FISHINGER RD.																									
337	IC-1	101+27, 30' LT													75										
337	IC-2	101+27, 30' LT	101+72, 56' LT			51	51								51										
337	IC-3	101+72, 56' LT	101+54, 42' LT	19											29										
337	TC-1	101+54, 42' LT									2	1	1			1									
337	EC-1	101+54, 42' LT	101+59, 47' LT											16											
337	EC-2	101+59, 47' LT												35											
337	EC-3	101+59, 47' LT	101+63, 95' RT					142						142											
337	EC-4	101+63, 95' RT	101+93, 95' RT											30											
337	WR-1	101+93, 95' RT			1				1	1							1								
337	PULL BOX SLACK														10										
INTERSECTION SIG4105: DUBLIN RD. AT HILLIARD CEMETERY RD.																									
338	TC-1	28+82, 24' RT										1	1												
338	EC-1	28+82, 24' RT	28+72, 24' RT											20											
338	EC-2	28+72, 24' RT												35											
338	EC-3	28+72, 24' RT	28+13, 21' RT					60						60											
338	WR-1	28+13, 21' RT															1								
338	PULL BOX SLACK													5											

144 STRAND FIBER OPTIC CABLE

EX. P.B. W/ FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

CTV-1

FRANTZ ROAD

HAYDEN RUN RD

DUBLIN RD

56+00

57+00

58+00

59+00

0+00

1+00

R/W

ONLY

12"SD

16"W

8"W

12"W

72"S

24"SD

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 659

INT #4145 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 659 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 345 FOR INTERSECTION QUANTITIES

3. SEE SHEET 943 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

4. CCTV COMPOSITE CABLE AND CCTV FIELD CONTROLLER ARE INCIDENTAL TO ITEM 632: SIGNALIZATION MISC.: CCTV IP-CAMERA SYSTEM. COMPOSITE CABLE SHALL BE FREE OF SPLICES FROM THE CCTV CAMERA UNIT TO THE CCTV FIELD CONTROLLER UNIT.

UNDERGROUND UTILITIES

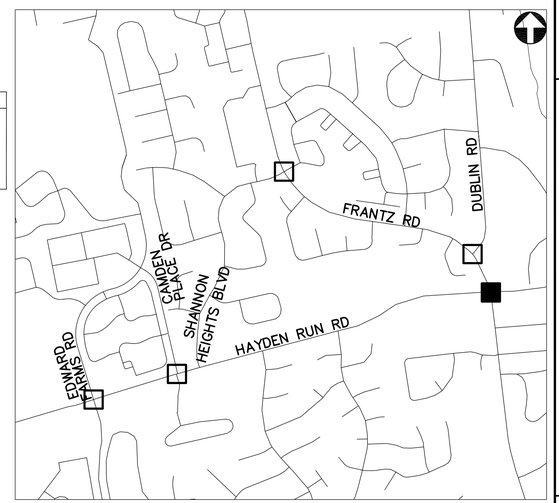
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

DUBLIN RD AND FRANTZ RD AT HAYDEN RUN RD - 4145

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

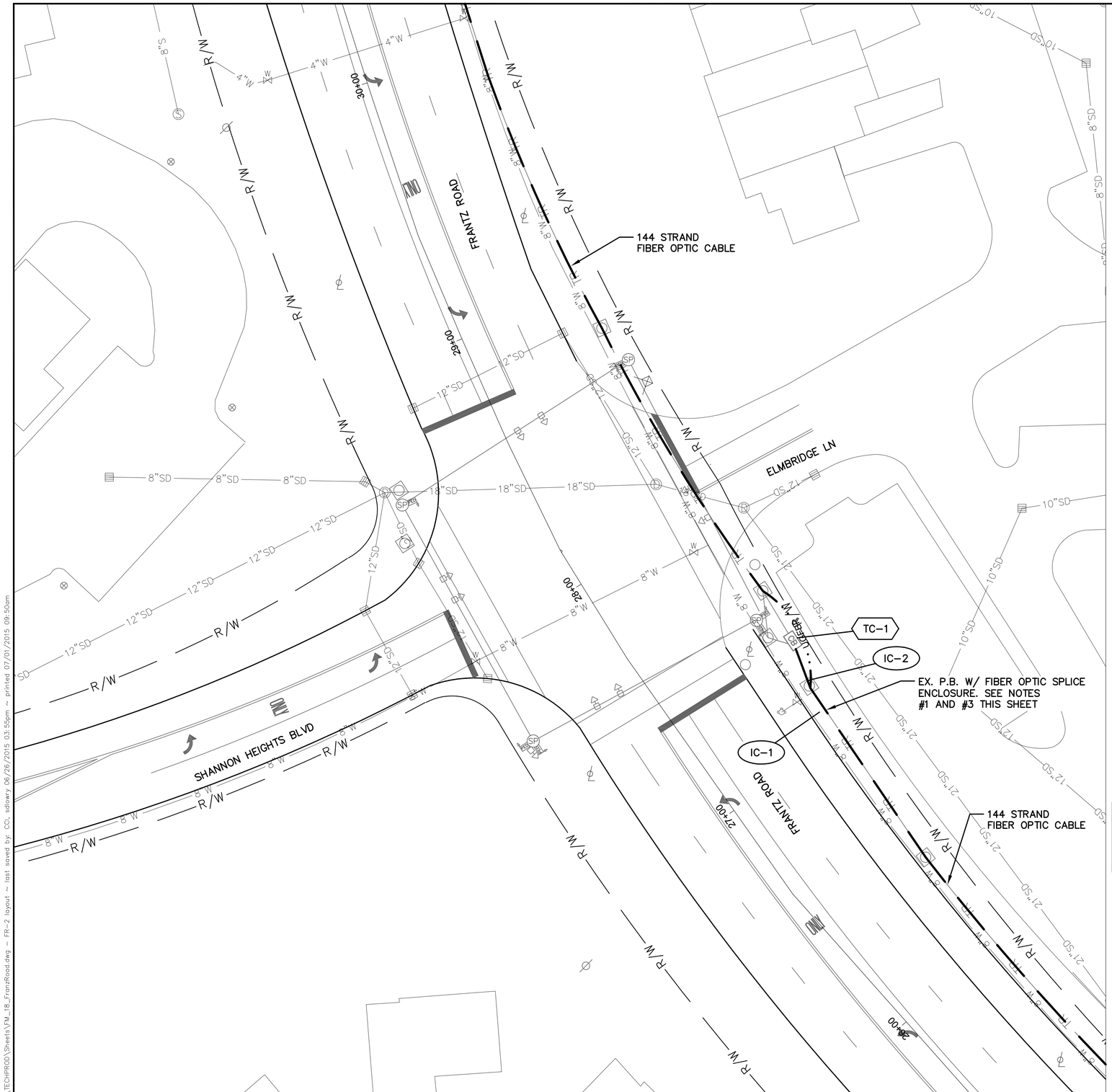
PID NUMBER 13034

DUBLIN RD AND FRANTZ RD AT HAYDEN RUN RD
INTERSECTION 4145

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

340
1107

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FRANTZ RD AT SHANNON HEIGHTS BLVD - 4211

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 660

INT #4211 WITH EXISTING SIGNAL CONTROLLER

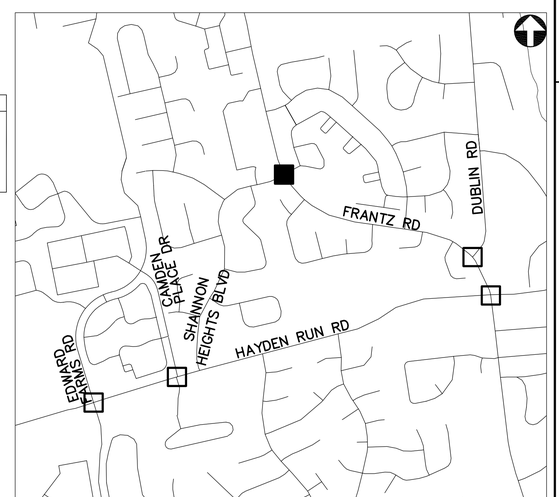
PROPOSED FIBER CABLE SEE SHEET 660

NOTES:

1. SEE SHEET 660 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 345 FOR INTERSECTION QUANTITIES
3. SEE SHEET 970 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES
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- SEWER
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- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FRANTZ RD AT SHANNON HEIGHTS BLVD INTERSECTION 4211

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

341
1107

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144 STRAND
FIBER OPTIC CABLE

DUBLIN RD

EX. P.B. W/ FIBER OPTIC SPLICE
ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

IC-1

IC-2

TC-1

FRANTZ ROAD

144 STRAND
FIBER OPTIC CABLE

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
659

INT #4221 WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
659

NOTES:

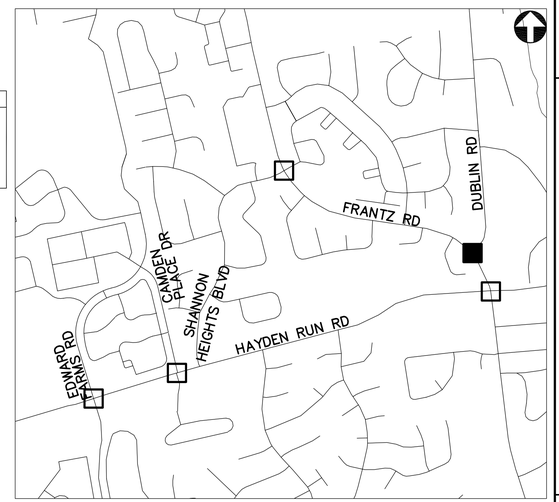
1. SEE SHEET 659 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 345 FOR INTERSECTION QUANTITIES

3. SEE SHEET 976 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

DUBLIN RD AT FRANTZ RD - 4221

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

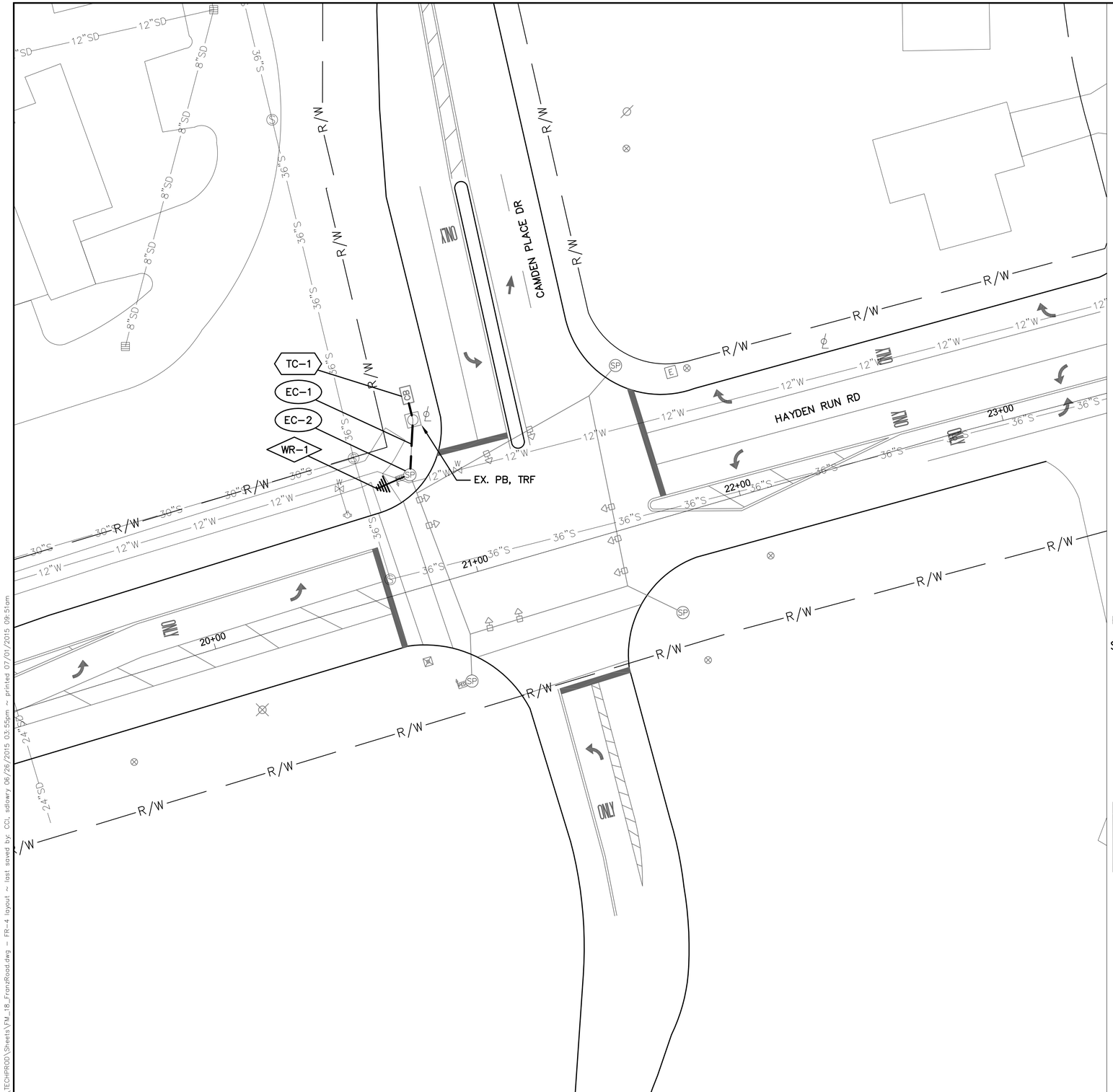
PID NUMBER
13034

DUBLIN RD AT FRANTZ RD
INTERSECTION 4221

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

342
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 344

INT #4288 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 345 FOR INTERSECTION QUANTITIES
2. SEE SHEET 978 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

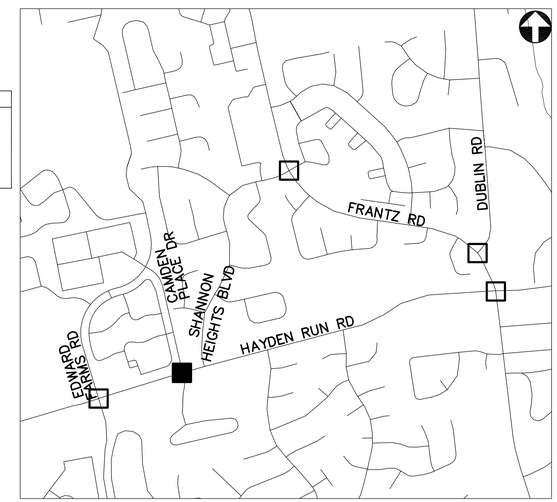
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

CAMDEN PLACE DR AT HAYDEN RUN RD - 4228

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

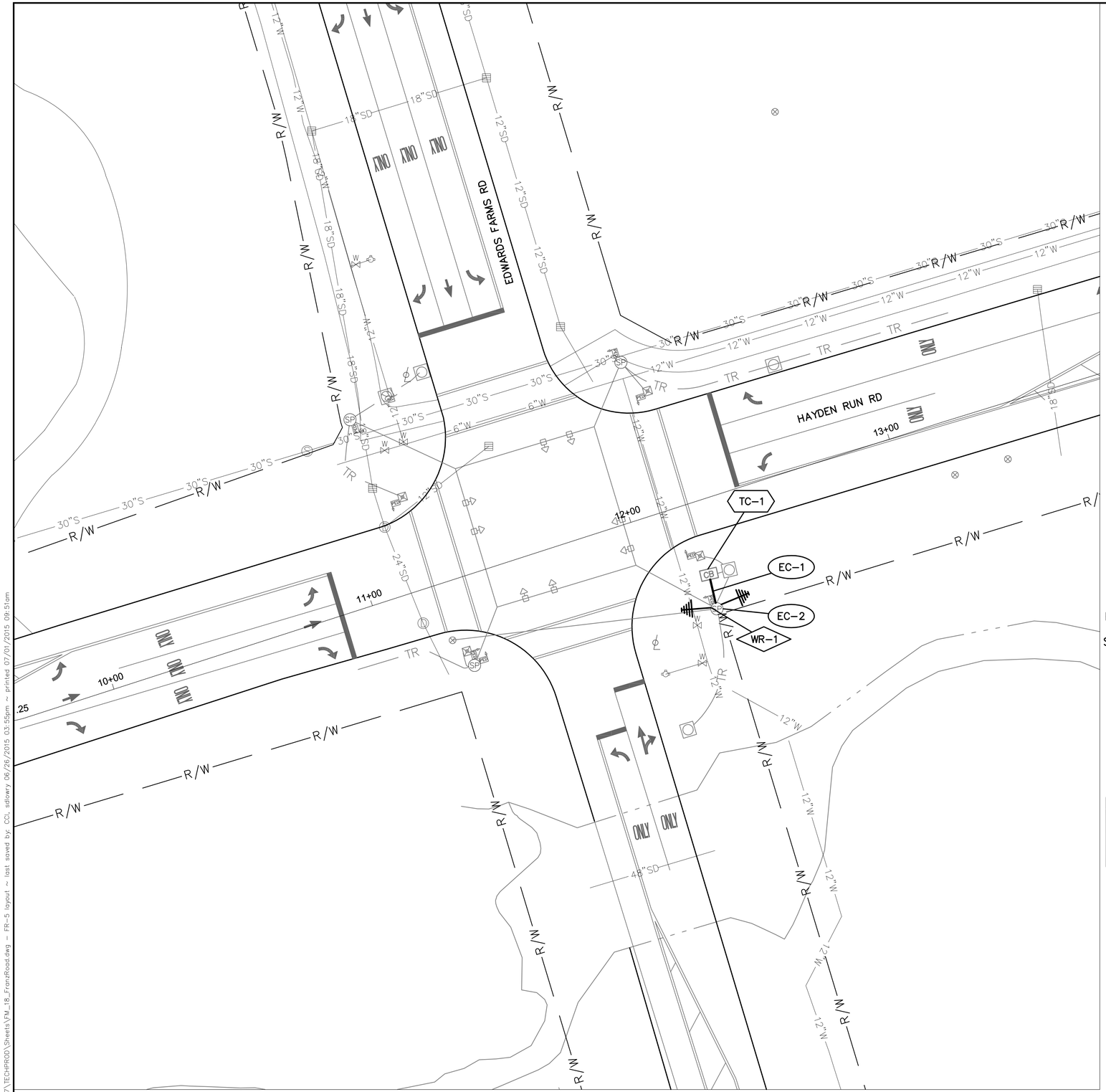
PID NUMBER 13034

CAMDEN PLACE DR AT HAYDEN RUN RD
INTERSECTION 4228

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

343
1107

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INTERSECTION COMMUNICATIONS

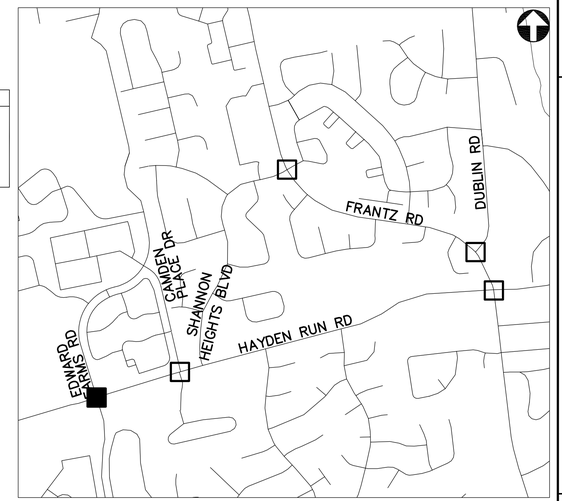
PROPOSED WIRELESS SEE SHEET 663 — INT #4258 WITH EXISTING SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 343

NOTES:

1. SEE SHEET 345 FOR INTERSECTION QUANTITIES
2. SEE SHEET 988 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

EDWARDS FARMS RD AT HAYDEN RUN RD - 4258

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

EDWARDS FARM RD AT HAYDEN RUN RD
INTERSECTION 4258

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

344
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION FROM	STATION TO	632 SIGNALIZATION, MISC.: CCTV IP-CAMERA SYSTEM EACH	633 CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER EACH	633 CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH EACH	633 CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER EACH	633 INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED FT	804 FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE FT	804 FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION EACH	815 SPREAD SPECTRUM RADIO, AS PER PLAN EACH
INTERSECTION 4145: DUBLIN RD. & FRANTZ RD. AT HAYDEN RUN RD.											
340	IC-1	0+95, 47' RT							75		
340	IC-2	0+95, 47' RT	0+57, 57' RT						52		
340	TC-1	0+57, 57' RT			2	1	1			1	
340	CTV-1	0+46, 65' RT		1							
340	PULL BOX SLACK										
INTERSECTION 4211: FRANTZ RD AT SHANNON HEIGHTS BLVD.											
341	IC-1	27+11, 46' RT							75		
341	IC-2	27+11, 46' RT	27+35, 53' RT						35		
341	TC-1	27+35, 53' RT			2	1	1			1	
INTERSECTION 4221: DUBLIN RD. AT FRANTZ RD.											
342	IC-1	4+35, 57' RT							75		
342	IC-2	4+35, 57' RT	4+22, 51' RT						24		
342	TC-1	4+22, 51' RT			2	1	1			1	
INTERSECTION 4228: CAMDEN PLACE DR. AT HAYDEN RUN RD.											
343	TC-1	20+93, 66' LT				1	1				
343	EC-1	20+93, 66' LT	20+86, 41' LT					36			
343	EC-2	20+86, 41' LT						35			
343	WR-1	20+86, 41' LT									1
343	PULL BOX SLACK							5			
INTERSECTION 4258: EDWARDS FARM RD. AT HAYDEN RUN RD.											
344	TC-1	12+21, 29' RT				1	1				
344	EC-1	12+21, 29' RT	12+20, 40' RT					42			
344	EC-2	12+20, 40' RT						70			
344	WR-1	12+20, 40' RT									2
SHEET TOTAL				1	6	5	5	188	336	3	3

2762 DR. E

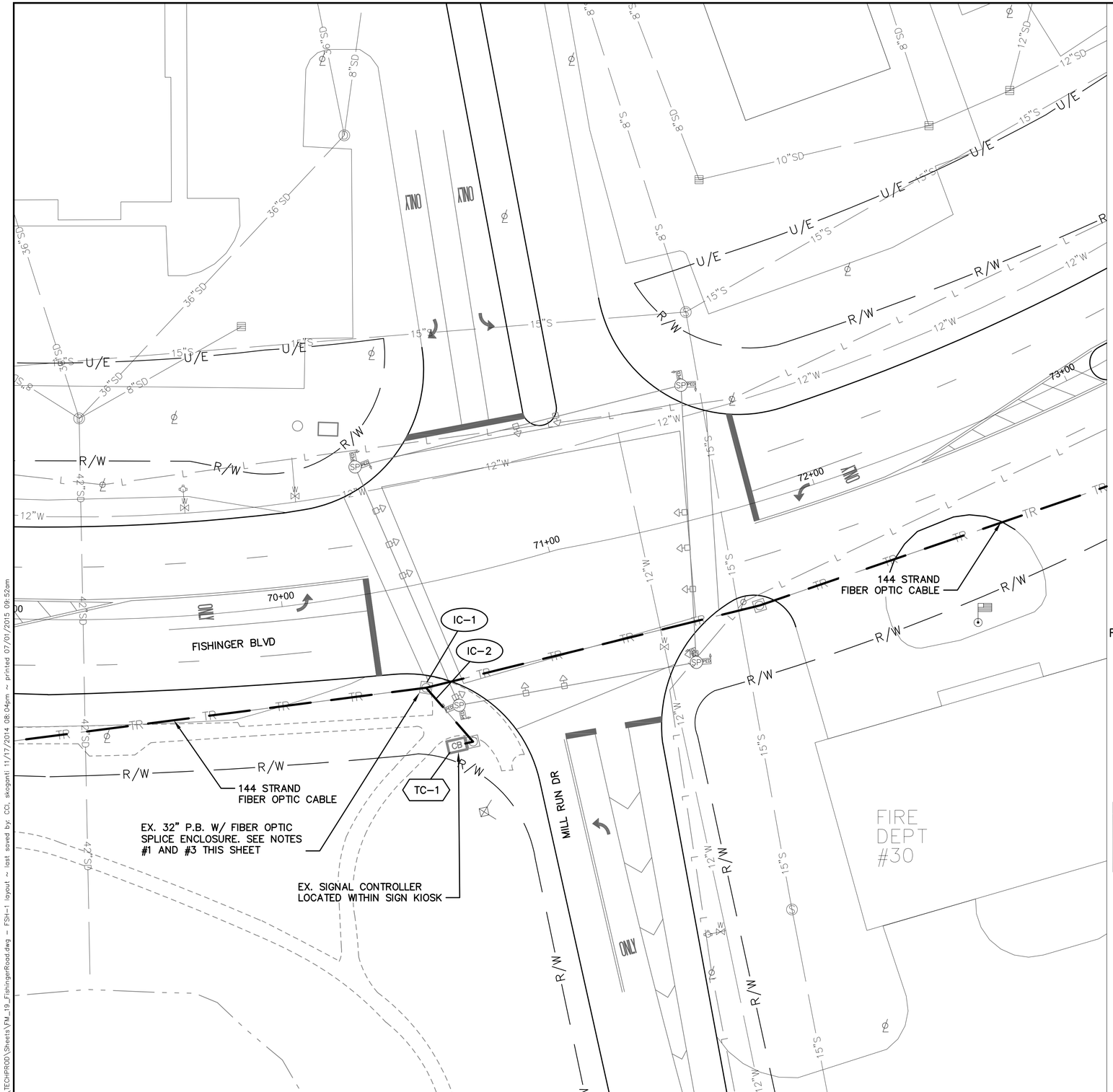
PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS 4145, 4211, 4221, 4228 AND 4258

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

345
1107

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INTERSECTION COMMUNICATIONS

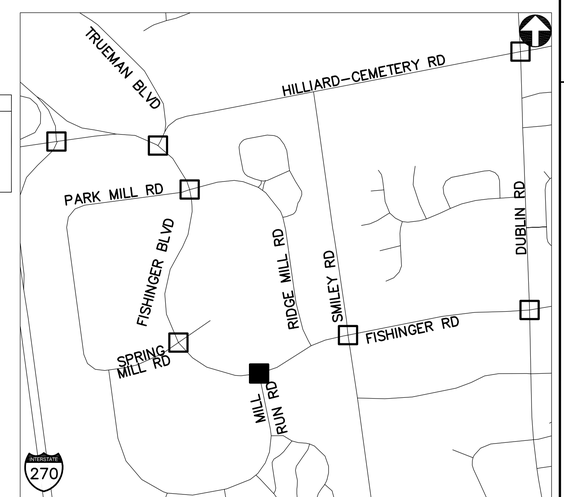
PROPOSED FIBER CABLE SEE SHEET 716 — INT #4213 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 716

NOTES:

1. SEE SHEET 716 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 349 FOR INTERSECTION QUANTITIES
3. SEE SHEET 971 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

FISHINGER BLVD AT MILL RUN DR - 4213

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FISHINGER BLVD AT MILL RUN DR
INTERSECTION 4213

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

346
1107

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144 STRAND
FIBER OPTIC CABLE

SPRING MILL DR

MILL RUN SHOPPING CENTER DRIVEWAY

FISHINGER BLVD

59+00

60+00

61+00

62+00

63+00

IC-1

IC-2

TC-1

EX. 32" P.B. W/ FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

FISHINGER BLVD AT SPRING MILL DR - 4214

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
716

INT #SIG4214 WITH
PROPOSED SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
716

NOTES:

1. SEE SHEET 716 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

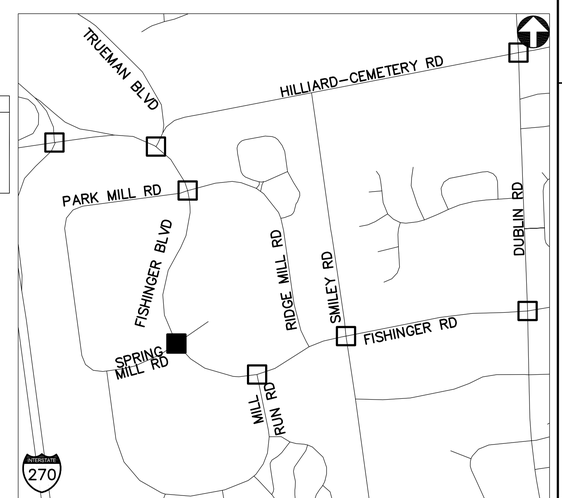
2. SEE SHEET 349 FOR INTERSECTION QUANTITIES

3. SEE SHEET 972 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

FISHINGER BLVD AT SPRING MILL DR
INTERSECTION 4214

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

347
1107

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144 STRAND
FIBER OPTIC CABLE

24 FIBER TERMINATION PANEL
W/ FIBER OPTIC DROP CABLE

LAYER 2 NETWORK SWITCH

IC-1

IC-2

TC-1

EX. 32" P.B.
W/ FIBER OPTIC SPLICE
ENCLOSURE. SEE NOTES
#1 AND #2 THIS SHEET

144 STRAND
FIBER OPTIC CABLE

RIDGE MILL RD

PARK MILL RUN RD

FISHINGER BLVD

42+00

43+00

45+00

ONLY

R/W

U/E

12"W

8"S

12"SD

10"SD

42"SD

8"SD

TR

T

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
715

INT #7001 WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
715

NOTES:

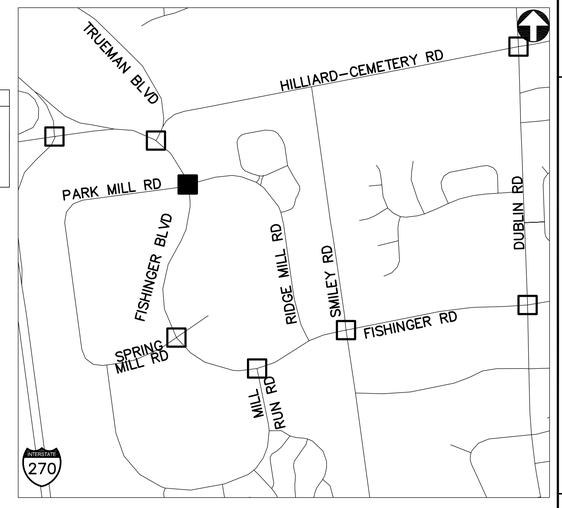
1. SEE SHEET 715 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS

2. SEE SHEET 972A FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

FISHINGER BLVD AT PARK MILL RD AND RIDGE MILL RD - 7001

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

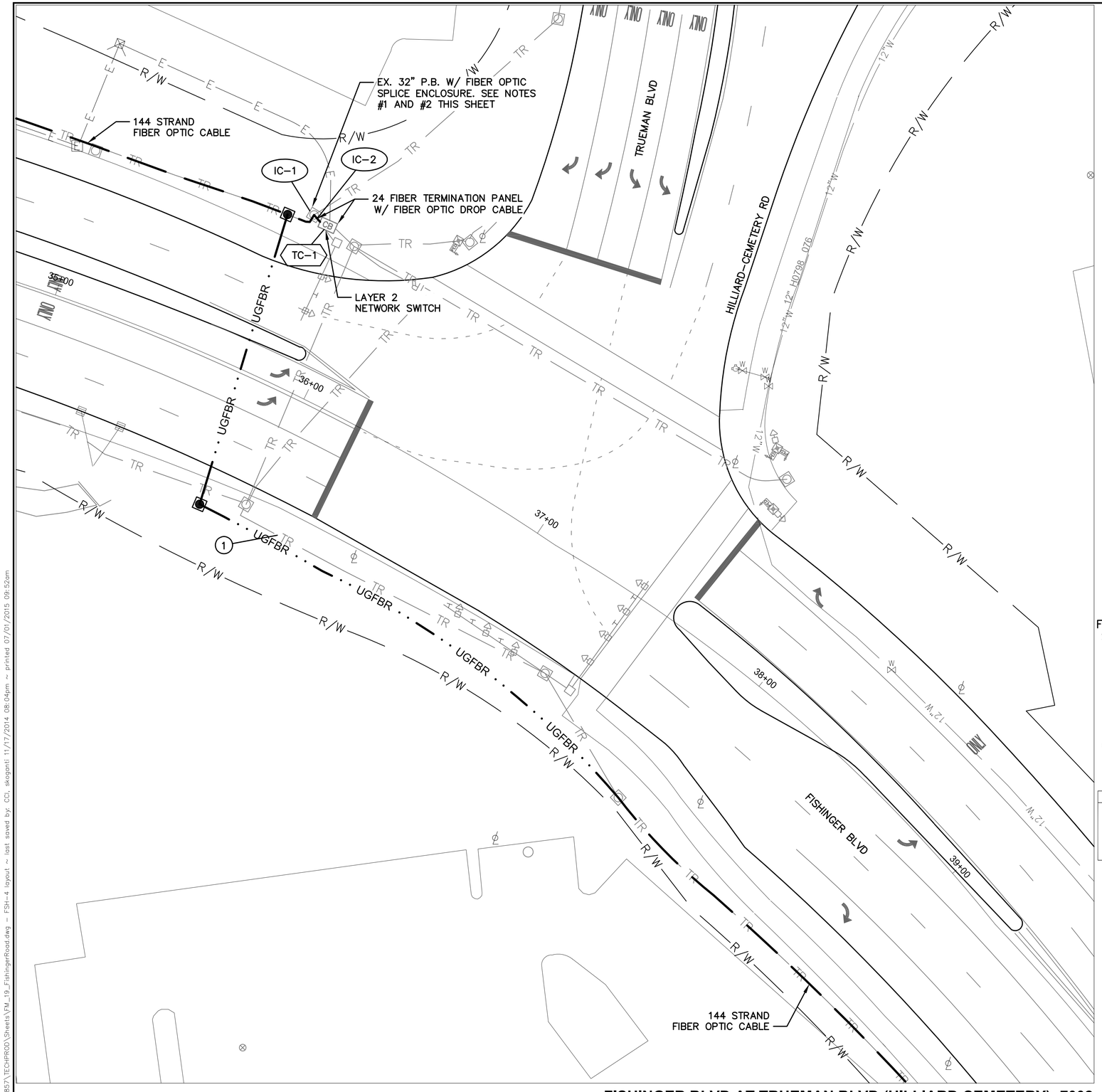
PID NUMBER
13034

FISHINGER BLVD AT PARK MILL RD AND RIDGE MILL RD
INTERSECTION 7001

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

347A
1107

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FISHINGER BLVD AT TRUEMAN BLVD (HILLIARD CEMETERY) -7002

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 714 — INT #7002 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 715

NOTES:

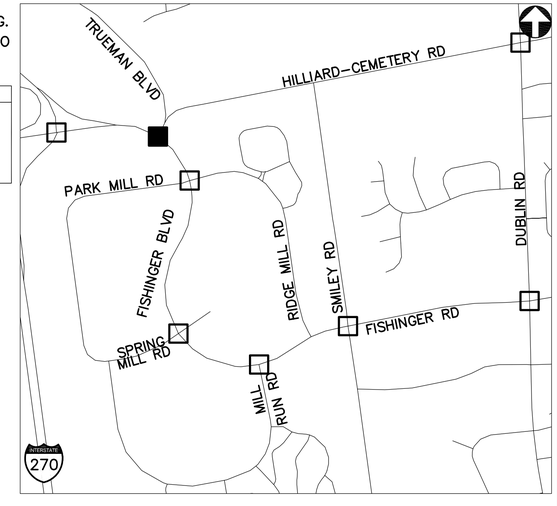
1. SEE SHEETS 714 AND 715 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 972B FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

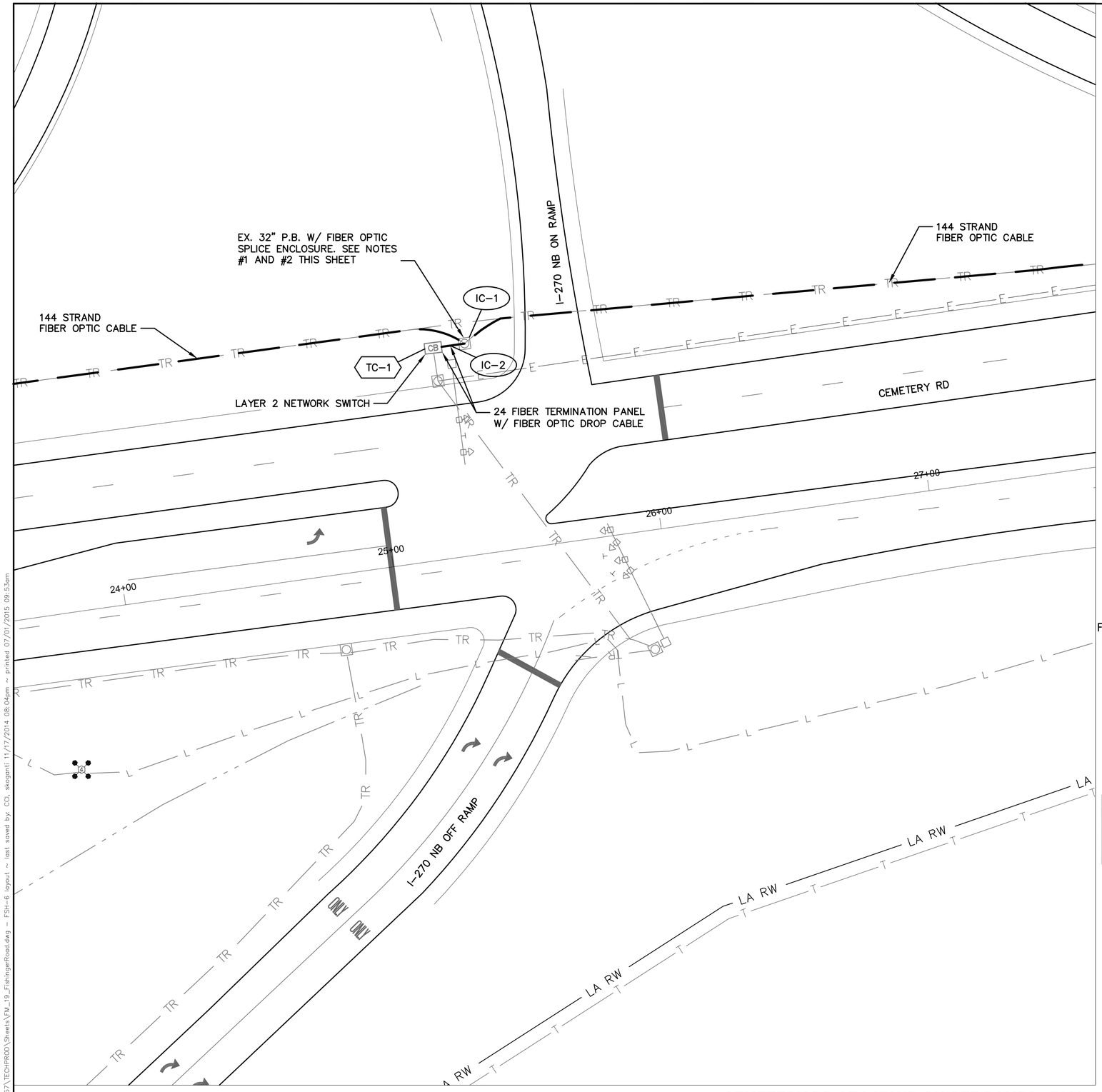
PID NUMBER 13034

FISHINGER BLVD AT TRUEMAN BLVD INTERSECTION 7002

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

347B
1107

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INTERSECTION COMMUNICATIONS

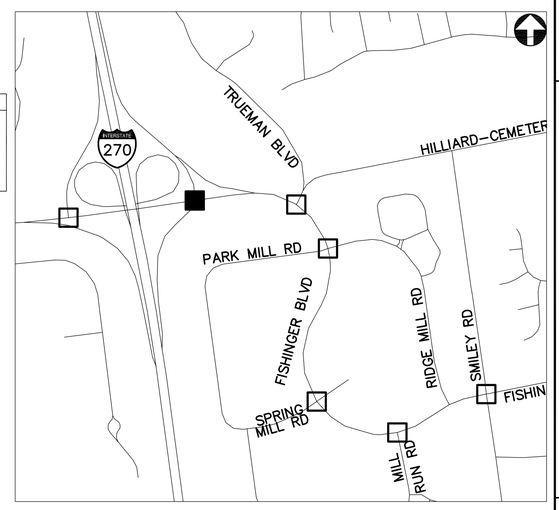
PROPOSED FIBER CABLE SEE SHEET 714 — INT #7003 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 714

NOTES:

1. SEE SHEET 714 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 972C FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

CEMETERY RD AT I-270NB ON/OFF RAMPS - 7003

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

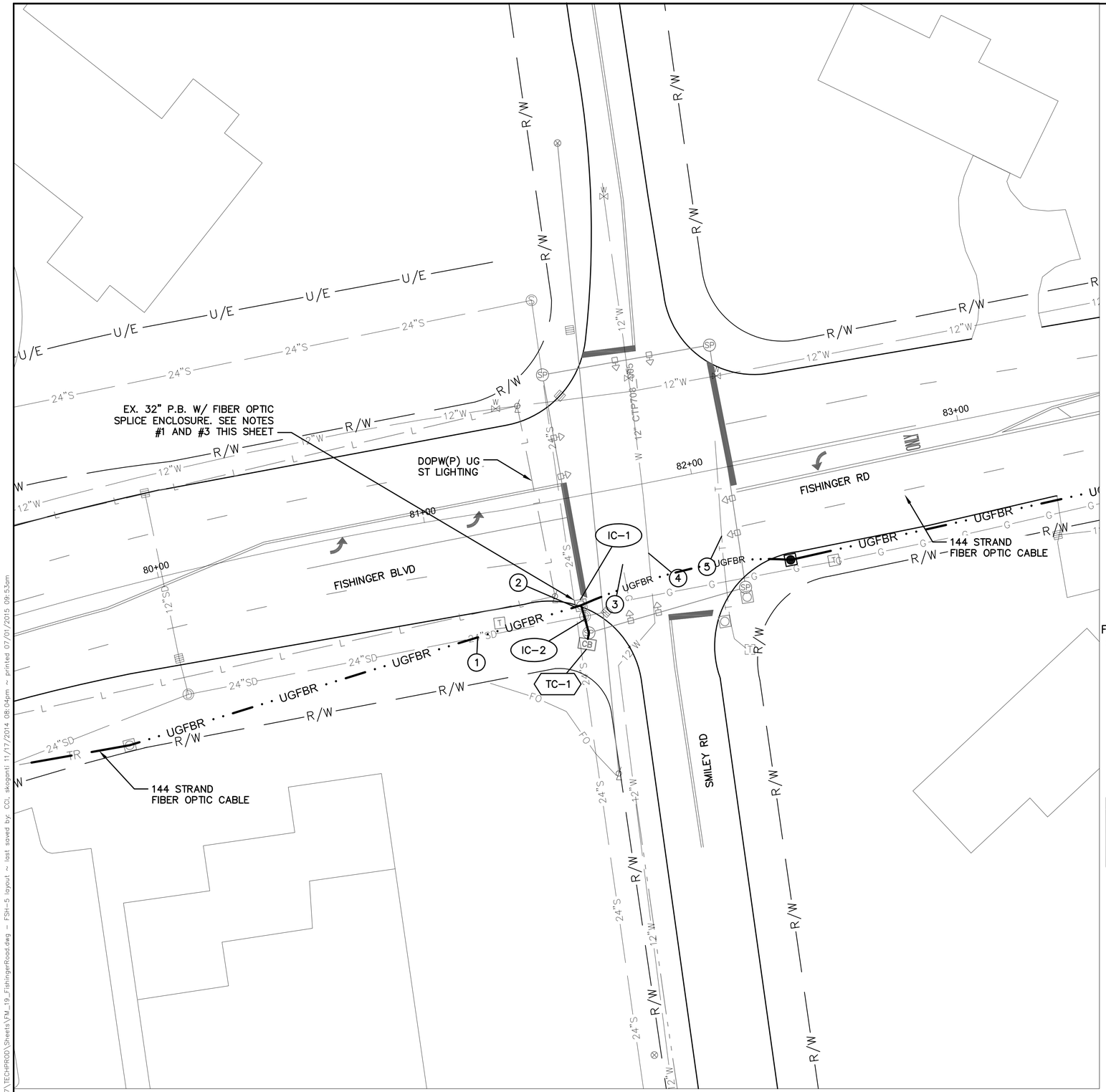
PID NUMBER 13034

CEMETERY RD AT I-270NB ON/OFF RAMPS INTERSECTION 7003

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

347C
1107

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FISHINGER BLVD AT SMILEY RD - SIG4720

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 717 — INT #SIG4720 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 717

NOTES:

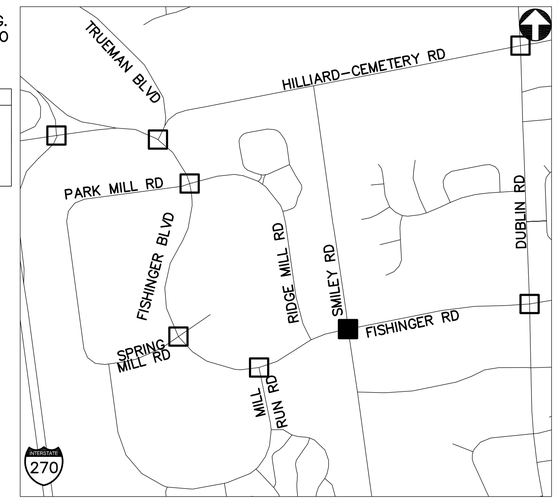
1. SEE SHEET 717 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 349 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1059 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 44 FOR PAVEMENT DETAILS
5. CONTACT FCEO AND PROJECT ENGINEER AT LEAST ONE WEEK IN ADVANCE OF INTERSECTION WORK TO COORDINATE CONFIGURATION OF SIGNAL CONTROLLER

(#) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

FISHINGER BLVD AND FISHINGER RD AT SMILEY RD
INTERSECTION SIG4720

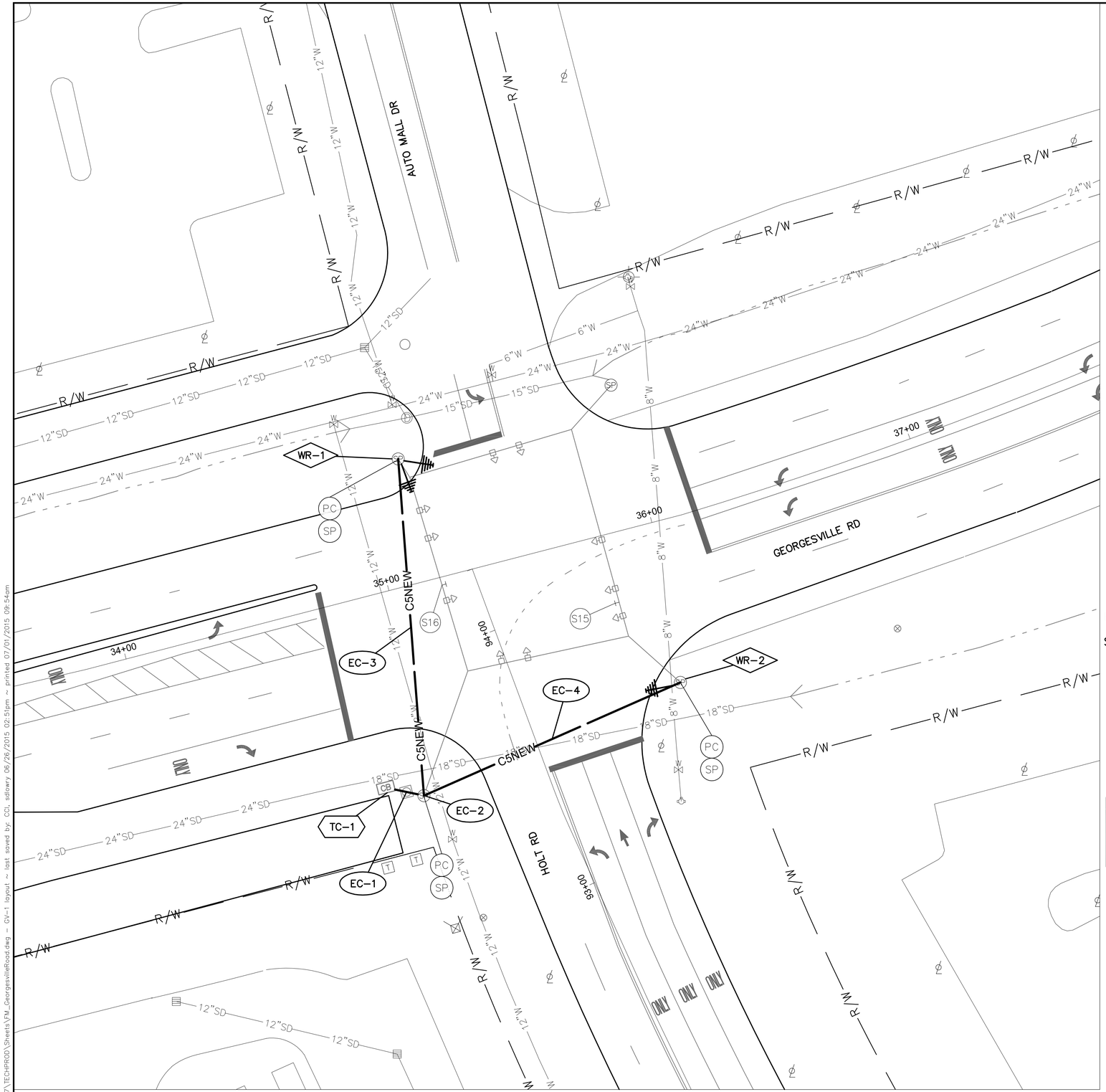
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

348
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		633	633	633	633	804	804																
				CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION															
		FROM	TO	EACH	EACH	EACH	EACH	FT	EACH																
INTERSECTION 4213: FISHINGER BLVD. AT MILL RUN DR.																									
346	IC-1	70+46, 38' RT						75																	
346	IC-2	70+46, 38' RT	70+55, 61' RT					39																	
346	TC-1	70+55, 61' RT		2	1	1			1																
346	PULL BOX SLACK							10																	
INTERSECTION 4214: FISHINGER BLVD. AT SPRING MILLS DR.																									
347	IC-1	61+48, 34' RT						75																	
347	IC-2	61+48, 34' RT	61+48, 58' RT					34																	
347	TC-1	61+48, 58' RT		2	1		1		1																
INTERSECTION SIG4720: FISHINGER RD. AT SMILEY RD.																									
348	IC-1	81+51, 40' RT						75																	
348	IC-2	81+51, 40' RT	81+52, 50' RT					21																	
348	TC-1	81+52, 50' RT		2	1	1			1																



INTERSECTION COMMUNICATIONS

NOTES:

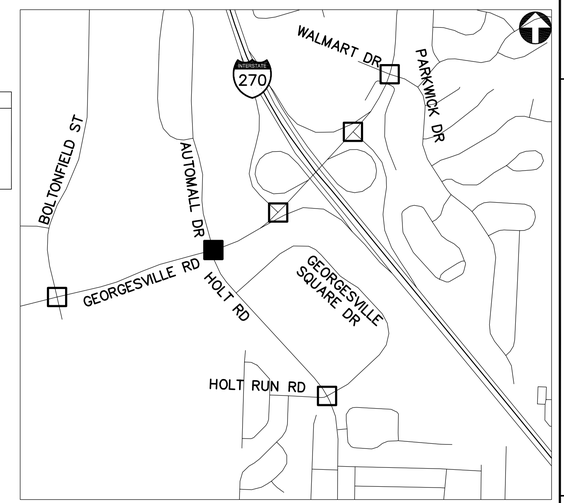
1. SEE SHEET 355 FOR INTERSECTION QUANTITIES
2. SEE SHEET 871 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

PROPOSED WIRELESS SEE SHEET 353 — INT #SIG1096 WITH EXISTING SIGNAL CONTROLLER — PROPOSED WIRELESS SEE SHEET 352

PROPOSED WIRELESS SEE SHEET 364

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



KEY PLAN
NOT TO SCALE

AUTOMALL DR AND HOLT RD AT GEORGESVILLE RD - 1096

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

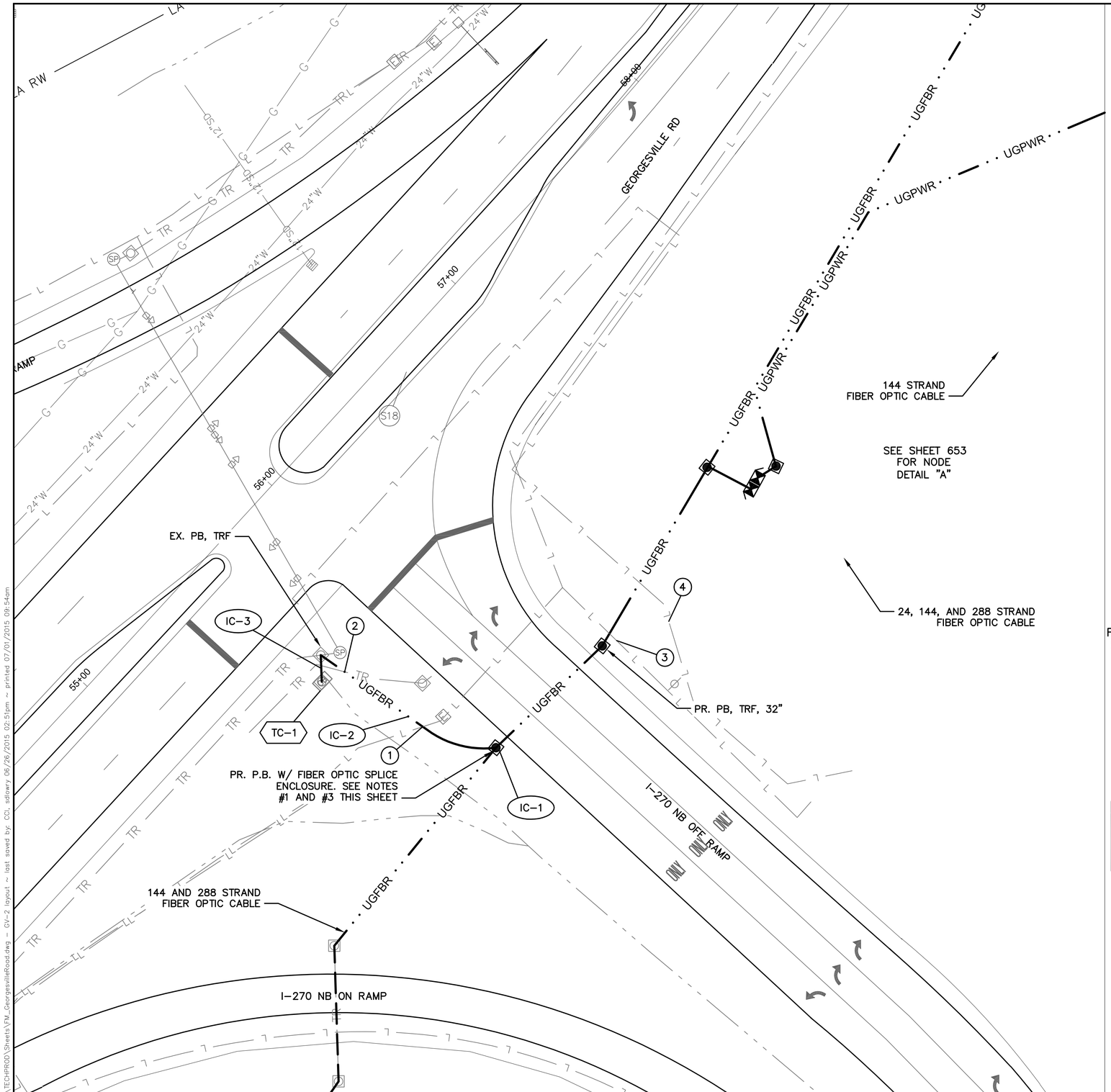
PID NUMBER 13034

AUTOMALL DR AND HOLT RD AT GEORGESVILLE RD INTERSECTION 1096

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

350
1107

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GEORGESVILLE RD AT I-270 NB OFF RAMP - 1099

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 646 — INT #SIG1099 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 646

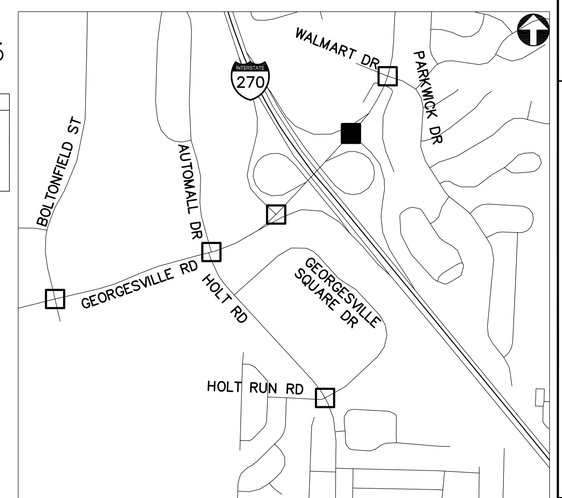
NOTES:

1. SEE SHEET 646 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 355 FOR INTERSECTION QUANTITIES
3. SEE SHEET 872 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(XX) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

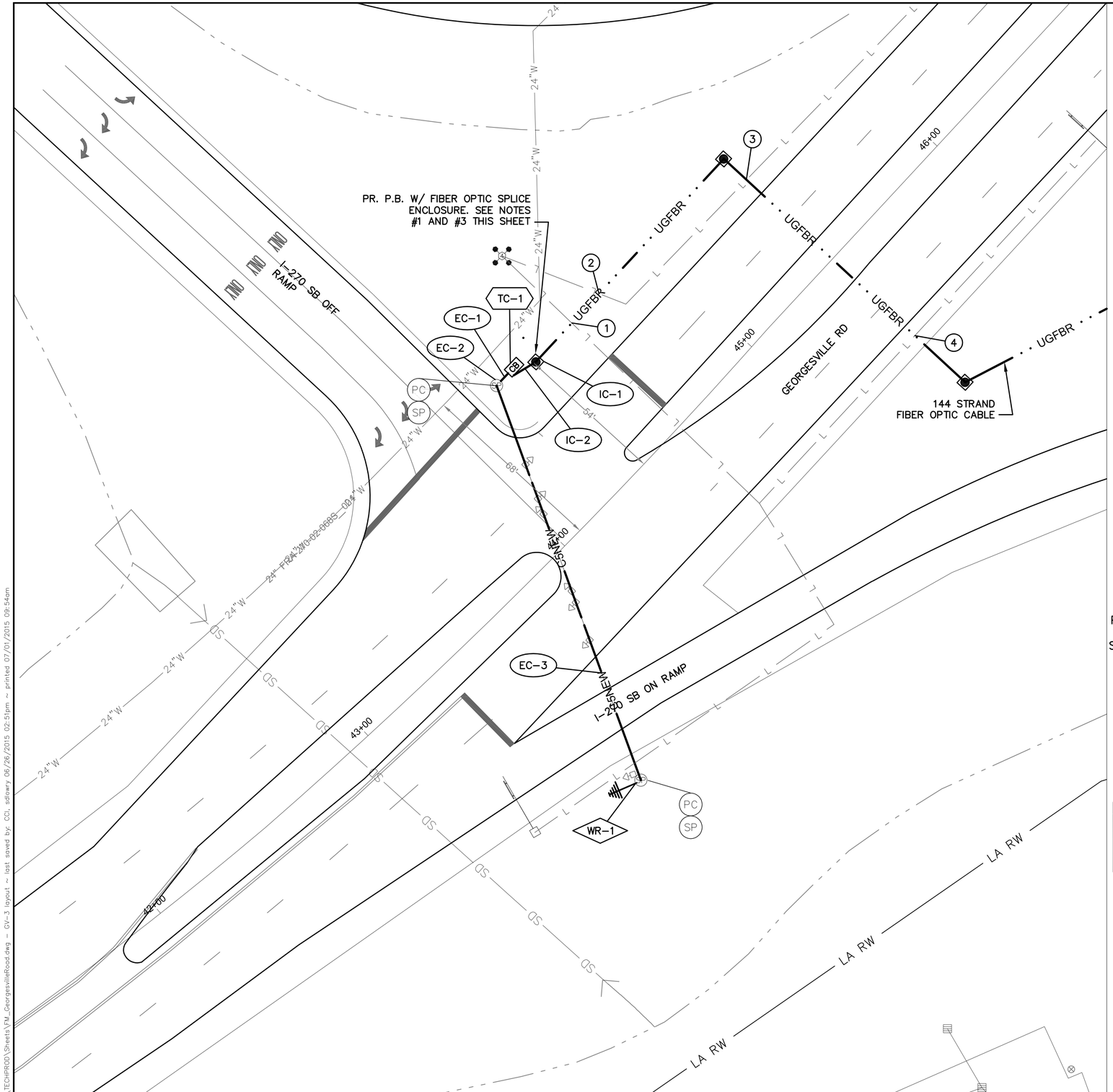
PID NUMBER 13034

GEORGESVILLE RD AT I-270 NB OFF RAMP
INTERSECTON 1099

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

351
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 350 — INT #SIG1100 WITH PROPOSED SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 645

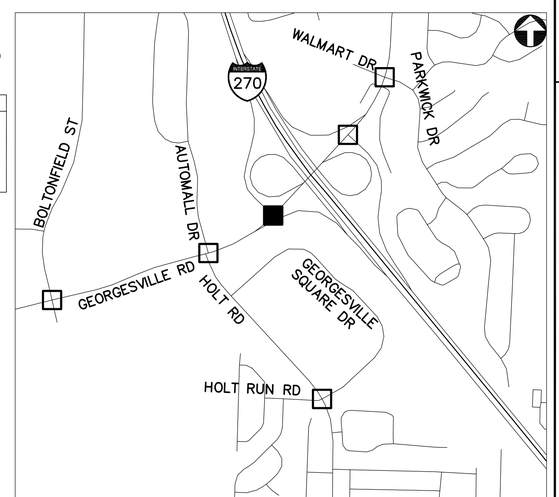
NOTES:

1. SEE SHEET 645 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 355 FOR INTERSECTION QUANTITIES
3. SEE SHEET 873 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN
4. SEE SHEET 466 FOR WIRELESS SCHEMATIC

(XX) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT I-270 EB OFF RAMP - 1100

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GEORGESVILLE RD AT I-270 EB OFF RAMP INTERSECTION 1100

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B – AS BUILT (DRAFT)

352
1107

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BOLTONFIELD ST

SERVICE RD

GEORGESVILLE RD

EX. PB, TRF

EC–1

EC–2

EC–3

TC–1

C5NEW

WR–1

PC

SP

CB

ONLY

18+00

19+00

17+00

16+00

R/W

24"SD

21"SD

15"SD

12"SD

8"S

12"W

8"W

24"W

INTERSECTION COMMUNICATIONS

INT #SIG1105 WITH EXISTING SIGNAL CONTROLLER — PROPOSED FIBER CABLE SEE SHEET 350

NOTES:

1. SEE SHEET 355 FOR INTERSECTION QUANTITIES
2. SEE SHEET 877 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

UNDERGROUND UTILITIES

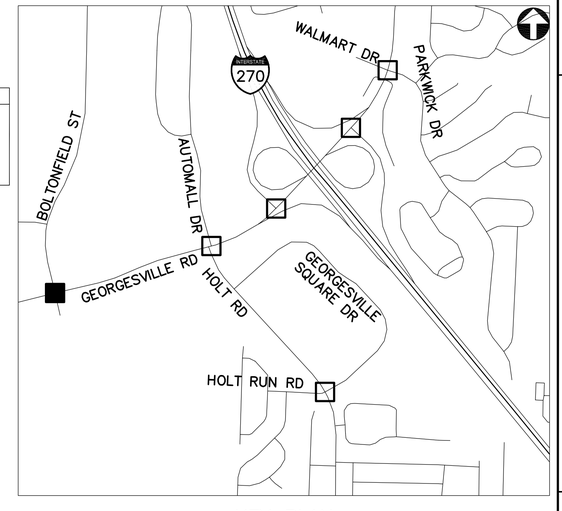
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800–362–2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

BOLTONFIELD ST AT GEORGESVILLE RD - 1105

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

BOLTONFIELD ST AT GEORGESVILLE RD
INTERSECTION 1105

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

353
1107

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144 STRAND FIBER OPTIC CABLE

PR. FIBER AERIAL 144 STRAND FIBER OPTIC AND DROP CABLES LASHED TO PR. MESSENGER

IC-1

PR. AERIAL FIBER OPTIC SPLICE ENCLOSURE. SEE NOTES #1 AND #3 THIS SHEET

AEP
1827446
704596

IC-2

IC-3

TC-1

PR. 144 STRAND FIBER OPTIC DROP CABLE LASHED TO PR. MESSENGER

PR. FIBER OPTIC DROP CABLE IN EXISTING CONDUIT

EX. PB, TRF

CONDUIT 2" RISER AS PER PLAN

PR PB, 32"

144 STRAND FIBER OPTIC CABLE

CLIME RD

GEORGESVILLE RD

ICNEW

R/W

TR

UGFBR

ONLY

12"SD

8"SD

87+00

88+00

86+00

24"W

12"W

6"W

55'

PC

SP

CB

CLIME RD AT GEORGESVILLE RD- 1053

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 647

INT #SIG1053 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 647

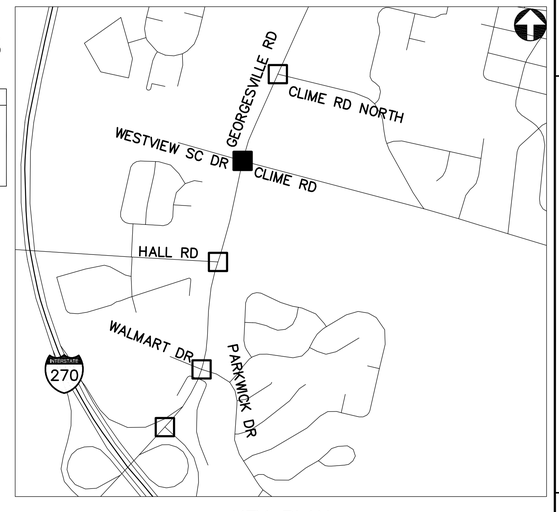
NOTES:

1. SEE SHEET 647 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 355 FOR INTERSECTION QUANTITIES
3. SEE SHEET 870 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(XX) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

CLIME RD AT GEORGESVILLE RD
INTERSECTION 1053

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

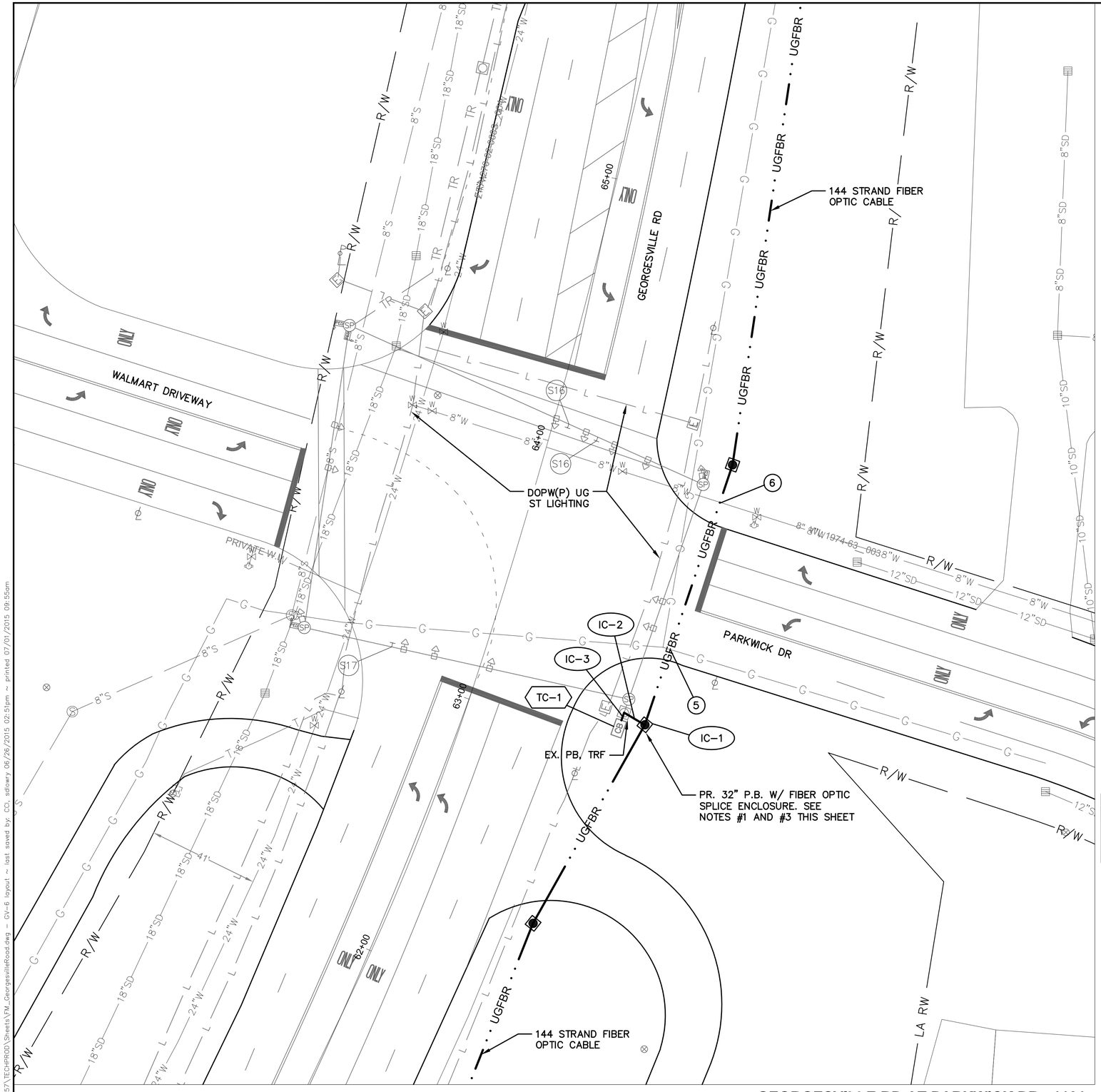
354
1107

2762 DR. E

J:\Jobs\47857\TECHPROD\Sheets\FM_GeorgesvilleRoad.dwg – GV-5 layout ~ last saved by: COI, sdlowry 06/26/2015 02:51pm ~ printed 07/01/2015 09:55am

ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	632	633	633	633	633	633	804	804	815												
				CONDUIT, 3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.; CAT 5E CABLE, OUTDOOR RATED	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN											
		FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH												
INTERSECTION 1096: AUTOMALL DR. & HOLT RD. AT GEORGESVILLE RD.																										
350	TC-1	34+81, 70' RT						1	1																	
350	EC-1	34+81, 70' RT	34+94, 76' RT								72															
350	EC-2	34+94, 76' RT									105															
350	EC-3	34+94, 76' RT	35+15, 46' LT			124					248															
350	WR-1	35+15, 46' LT												2												
350	EC-4	34+94, 76' RT	35+95, 60' RT			103					103															
350	WR-2	35+95, 60' RT												1												
350	PULL BOX SLACK										15															
INTERSECTION 1099: GEORGESVILLE RD. AT I-270 NB OFF RAMP																										
351	IC-1	55+85, 125' RT										75														
351	IC-2	55+85, 125' RT	55+66, 55' RT	74	74							74														
351	IC-3	55+66, 55' RT	55+59, 62' RT									20														
351	TC-1	55+59, 62' RT					2	1	1				1													
351	PULL BOX SLACK											10														
INTERSECTION 1100: GEORGESVILLE RD. AT I-270 EB OFF RAMP																										
352	IC-1	44+29, 54' LT										75														
352	IC-2	44+29, 54' LT	44+34, 59' LT									17														
352	TC-1	44+34, 59' LT					1	1		1			1													
352	EC-1	44+34, 59' LT	44+25, 59' LT								19															
352	EC-2	44+25, 59' LT									35															
352	EC-3	44+25, 59' LT	43+60, 80' RT			154					154															
352	WR-1	43+60, 80' RT												1												
INTERSECTION 1105: BOLTONFIELD ST. AT GEORGESVILLE RD.																										
353	TC-1	18+27, 64' LT						1	1																	
353	EC-1	18+27, 64' LT	18+13, 64' LT								24															
353	EC-2	18+13, 64' LT									35															
353	EC-3	18+13, 64' LT	17+28, 62' LT			84					84															
353	WR-1	17+28, 62' LT												1												
353	PULL BOX SLACK										5															
INTERSECTION 1053: CLIME RD. AT GEORGESVILLE RD.																										
354	IC-1	87+61, 55' RT										75														
354	IC-2	87+61, 55' RT	87+56, 74' RT	20	20							20														
354	IC-3	87+56, 74' RT	87+53, 81' RT									18														
354	TC-1	87+53, 81' RT					2	1					1													
354	PULL BOX SLACK											10														



GEORGESVILLE RD AT PARKWICK DR - 1101

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 646

INT #SIG1101 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 646

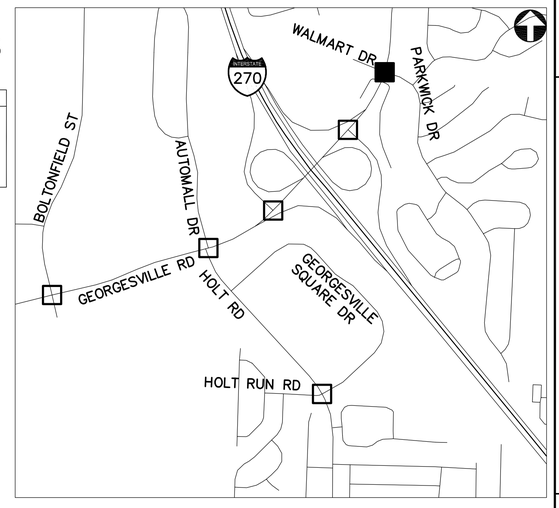
NOTES:

1. SEE SHEET 646 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 361 FOR INTERSECTION QUANTITIES
3. SEE SHEET 874 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(XX) EXISTING UTILITY CROSSING. SEE UTILITY CROSSING INFO SHEET 15.

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GEORGESVILLE RD AT PARKWICK DR
INTERSECTION 1101

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

356
1107

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144 STRAND
FIBER OPTIC CABLE

32" P.B. W/ PR. FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

IC-2

IC-1

TC-1

8

7

6

5

HALL RD

GEORGESVILLE RD

R/W

UGFBR

TR

24"W

12"W

77+00

76+00

75+00

74+00

ONLY

DOPW(P) UG
ST LIGHTING

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
647

INT #SIG1103 WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
646

NOTES:

1. SEE SHEETS 646 AND 647 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

2. SEE SHEET 361 FOR INTERSECTION QUANTITIES

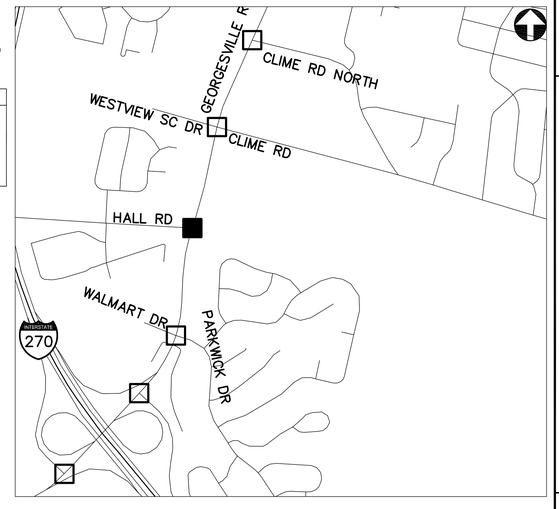
3. SEE SHEET 875 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

(XX) EXISTING UTILITY CROSSING.
SEE UTILITY CROSSING INFO
SHEET 15.

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS
UTILITY LEGEND

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT HALL RD - 1103

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

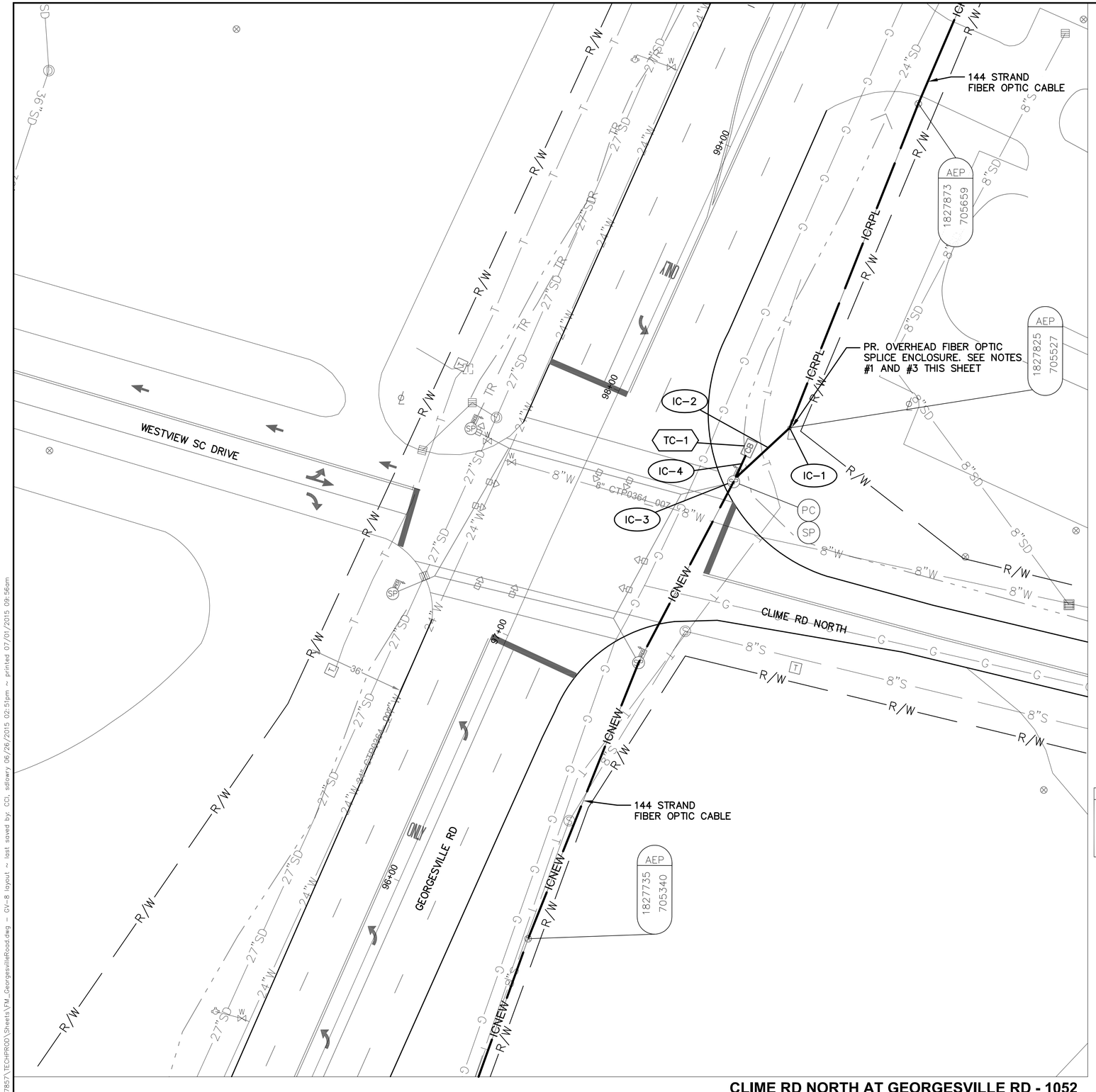
PID NUMBER
13034

GEORGESVILLE RD AT HALL RD
INTERSECTION 1103

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

357
1107

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CLIME RD NORTH AT GEORGESVILLE RD - 1052

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 648

INT #SIG1052 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 647

NOTES:

1. SEE SHEETS 647 AND 648 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS
2. SEE SHEET 361 FOR INTERSECTION QUANTITIES
3. SEE SHEET 869 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

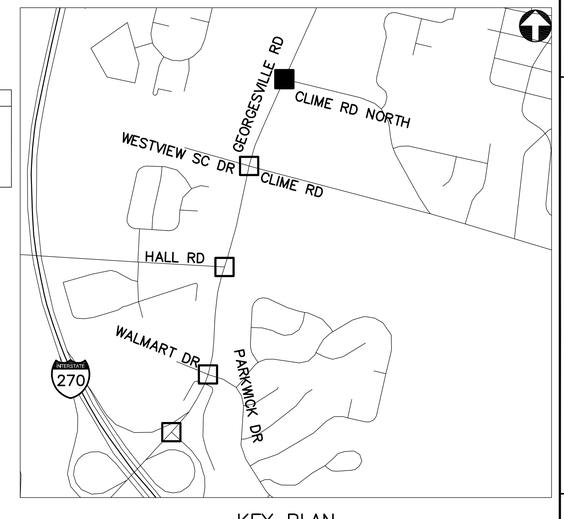
TWO WORKING DAYS BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

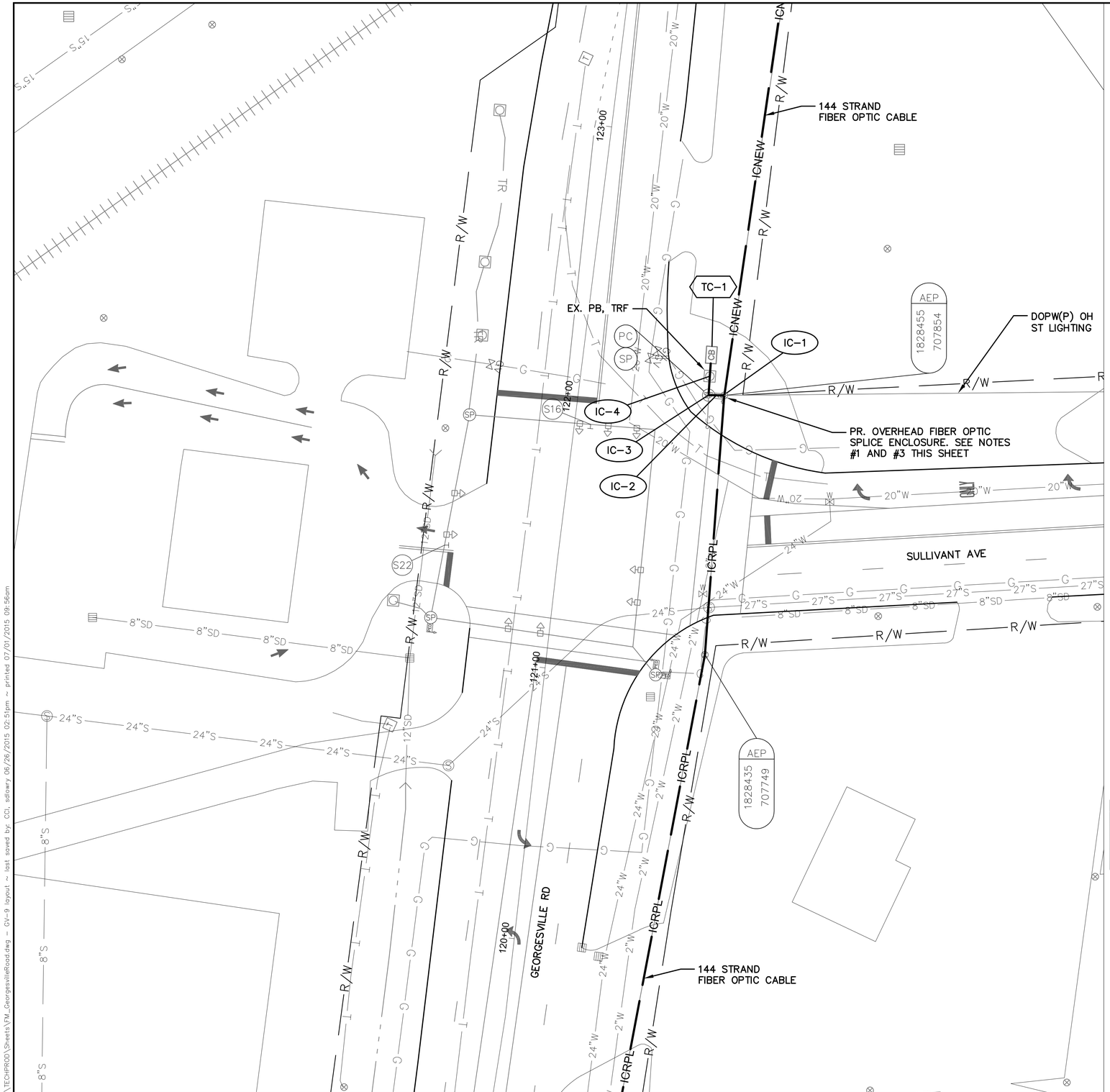
PID NUMBER 13034

CLIME RD NORTH AT GEORGESVILLE RD INTERSECTION 1052

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS) PHASE B - AS BUILT (DRAFT)

358
1107

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GEORGESVILLE RD AT SULLIVANT AVE (NORTH) - 1034

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 649

INT #SIG1034 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 649

NOTES:

1. SEE SHEET 649 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 361 FOR INTERSECTION QUANTITIES
3. SEE SHEET 866 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

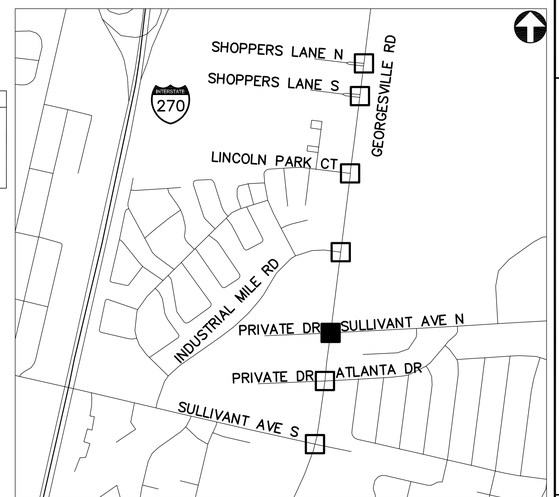
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

GEORGESVILLE RD AT SULLIVANT AVE NORTH
INTERSECTION 1034

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

359
1107

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ATLANTA DR AT GEORGESVILLE RD - 1035

INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 649

INT #SIG1035 WITH EXISTING SIGNAL CONTROLLER

PROPOSED FIBER CABLE SEE SHEET 648

NOTES:

1. SEE SHEETS 648 AND 649 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 361 FOR INTERSECTION QUANTITIES
3. SEE SHEET 867 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

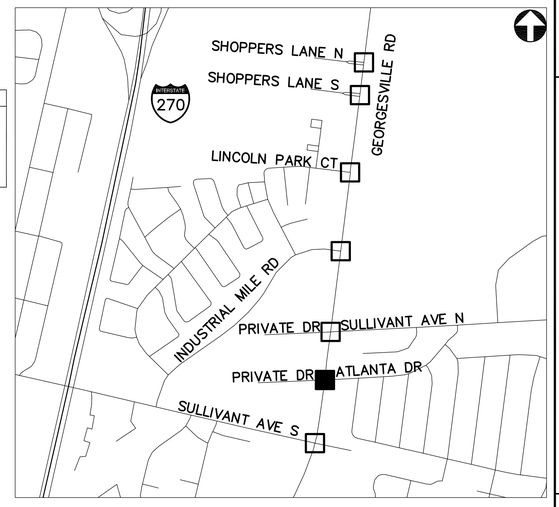
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

ATLANTA DR AT GEORGESVILLE RD
INTERSECTION 1035

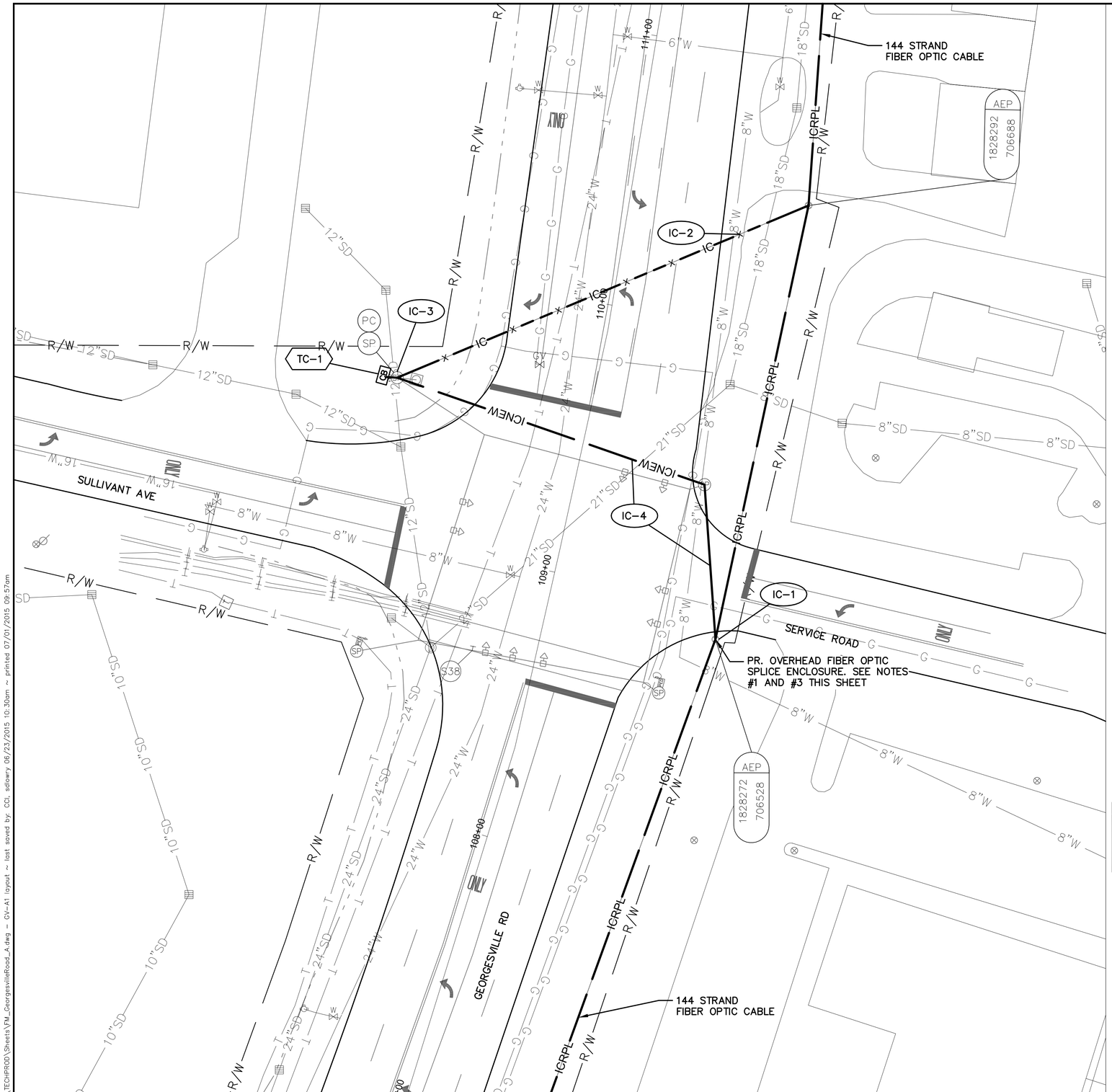
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

360
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		625	625	632	633	633	633	633	633	804	804												
				CONDUIT, 3", 725.05, AS PER PLAN	TRENCH, 36" DEEP, AS PER PLAN	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.; FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.; INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.; LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.; TERMINAL PORT SERVER	INTERCONNECT, MISC.; REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.; 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.; PATCH PANEL ENCLOSURE, 24 TERMINATION											
		FROM	TO	FT	FT	FT	EACH	EACH	EACH	EACH	FT	FT	EACH												
INTERSECTION 1101: GEORGESVILLE RD. AT PARKWICK DR.																									
356	IC-1	63+11, 65' RT										75													
356	IC-2	63+11, 65' RT	63+13, 56' RT	9	9							9													
356	IC-3	63+13, 56' RT	63+07, 56' RT									16													
356	TC-1	63+07, 56' RT					2		1	1			1												
356	PULL BOX SLACK											10													
INTERSECTION 1103: GEORGESVILLE RD. AT HALL RD.																									
357	IC-1	76+09, 35' LT										75													
357	IC-2	76+09, 35' LT	76+06, 53' LT	19	19							29													
357	TC-1	76+06, 53' LT					2		1	1			1												
INTERSECTION 1052: CLIME RD. NORTH AT GEORGESVILLE RD.																									
358	IC-1	98+14, 64' RT										75													
358	IC-2	98+14, 64' RT	97+87, 53' RT			29						29													
358	IC-3	97+87, 53' RT										35													
358	IC-4	97+87, 53' RT	98+01, 53' RT	14	14							24													
358	TC-1	98+01, 53' RT					2		1	1			1												
INTERSECTION 1034: GEORGESVILLE RD. AT SULLIVANT AVE. (NORTH)																									
359	IC-1	122+07, 53' RT										75													
359	IC-2	122+07, 53' RT	122+07, 48' RT			6					6	6													
359	IC-3	122+07, 48' RT										35													
359	IC-4	122+07, 48' RT	122+22, 47' RT									25													
359	TC-1	122+22, 47' RT					2	1	1				1												
359	PULL BOX SLACK											10													
INTERSECTION 1035: ATLANTA DR. AT GEORGESVILLE RD.																									
360	IC-1	115+69, 44' RT										75													
360	IC-2	115+69, 44' RT	115+85, 32' RT			19					19	19													
360	IC-3	115+85, 32' RT										35													
360	TC-1	115+85, 32' RT					2		1	1			1												



INTERSECTION COMMUNICATIONS

PROPOSED FIBER CABLE SEE SHEET 648

INT #1036 WITH PROPOSED SIGNAL CONTROLLER

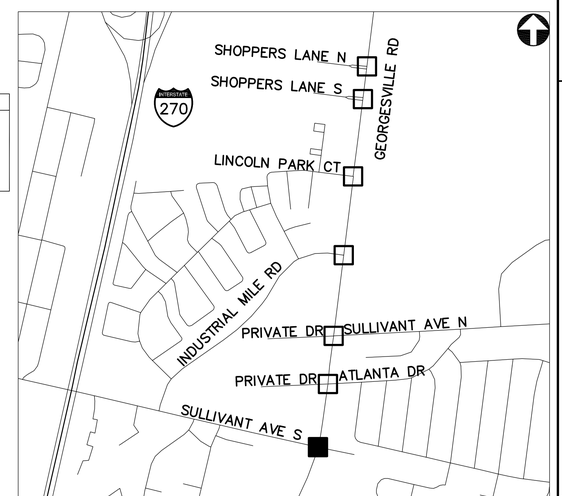
PROPOSED FIBER CABLE SEE SHEET 648

NOTES:

1. SEE SHEET 648 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 367 FOR INTERSECTION QUANTITIES
3. SEE SHEET 868 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES
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- WATER
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KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT SULLIVANT AVE (SOUTH) - 1036

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

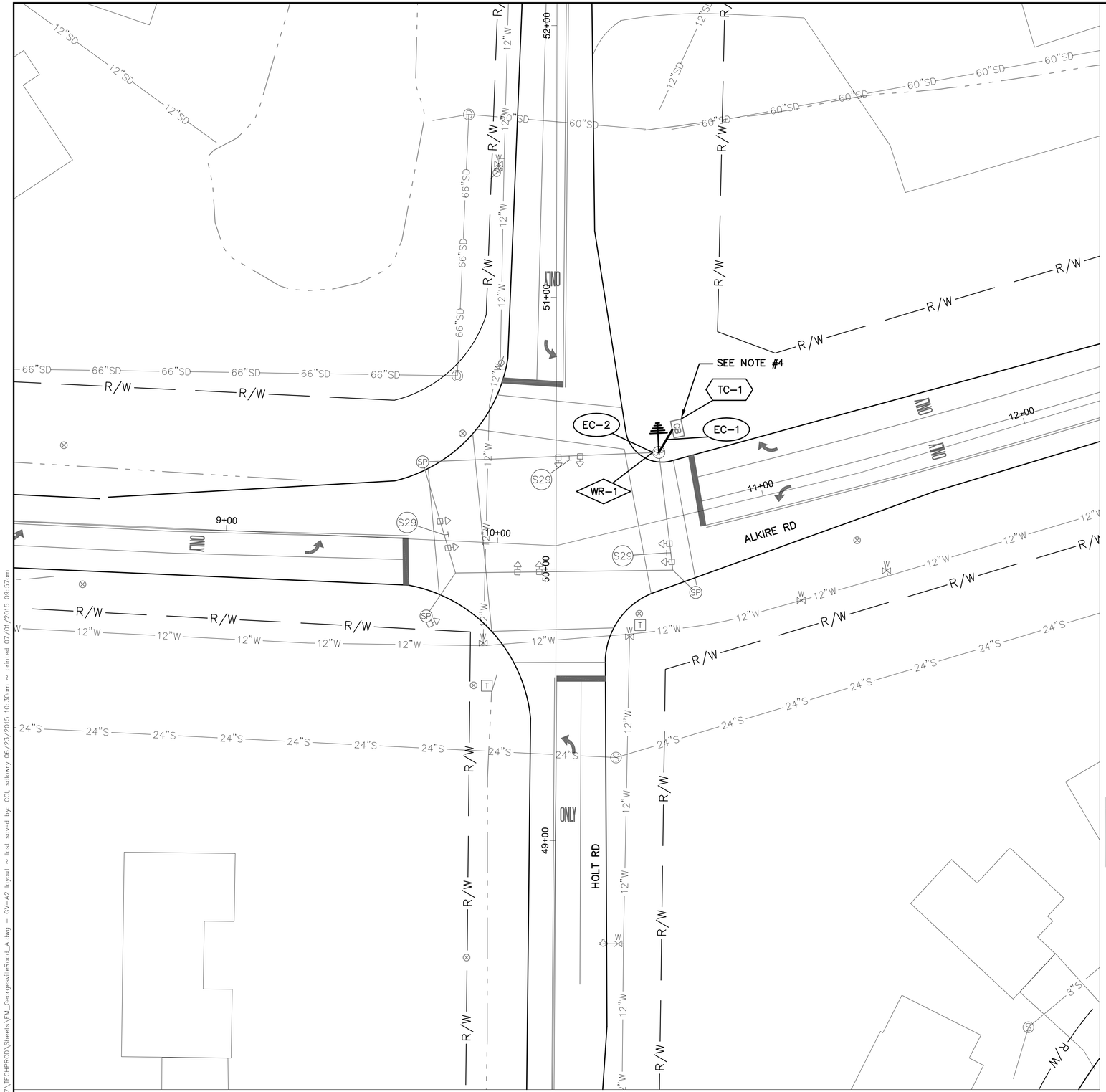
PID NUMBER 13034

GEORGESVILLE RD AT SULLIVANT AVE S
INTERSECTION 1036

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

362
1107

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INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 364

INT #SIG1104 WITH EXISTING SIGNAL CONTROLLER

NOTES:

1. SEE SHEET 367 FOR INTERSECTION QUANTITIES
2. SEE SHEET 876 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC
4. INTERSECTION CONFIGURATION WAS UPDATED PER 1958 DR E AFTER THE INSTALLATION OF THE WIRELESS RADIO. THE LOCATION OF THE CONTROL BOX IS APPROXIMATE.

UNDERGROUND UTILITIES

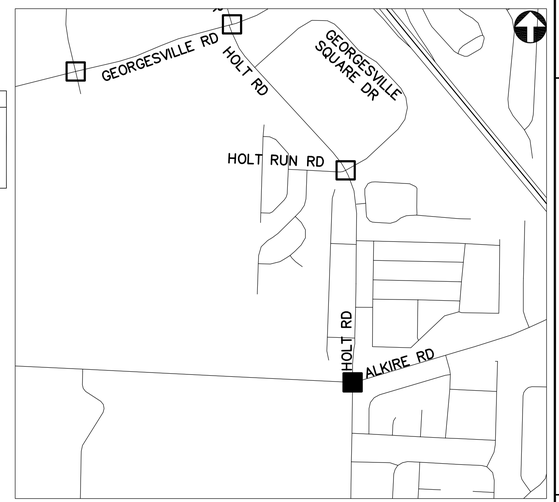
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OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

ALKIRE RD AT HOLT RD - 1104

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

ALKIRE RD AT HOLT RD
INTERSECTION 1104

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

363
1107

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EX. 24" PB, TRF
TC-1
EC-1
EC-2
EC-3
WR-1
PC
SP
GEORGESVILLE SQUARE DR
HOLT RUN DR
HOLT RD
GENEW
ONE WAY
R/W
74+00
75+00
76+00
23+00
22+00
12"SD
15"SD
24"SD
36"SD
42"SD
48"SD
8"W
12"W
8"S
10"S
15"S
12"S

INTERSECTION COMMUNICATIONS

PROPOSED WIRELESS SEE SHEET 350

INT #SIG1107 WITH EXISTING SIGNAL CONTROLLER

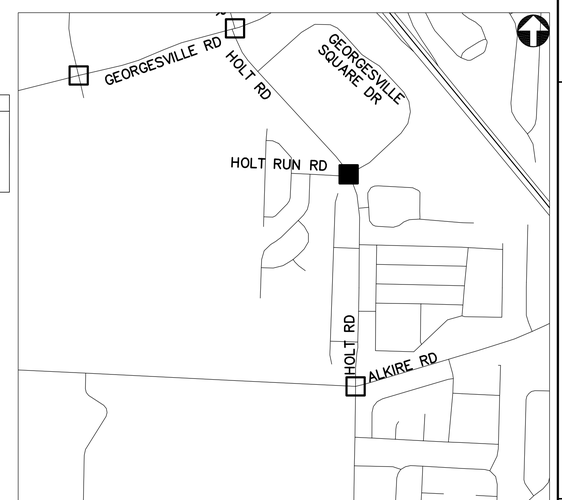
PROPOSED WIRELESS SEE SHEET 363

NOTES:

1. SEE SHEET 367 FOR INTERSECTION QUANTITIES
2. SEE SHEET 878 FOR COMMUNICATION DETAILS
3. SEE SHEET 466 FOR WIRELESS SCHEMATIC

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



KEY PLAN
NOT TO SCALE

HOLT RD AT HOLT RUN DR - 1107

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER 13034

HOLT RD AT HOLT RUN DR
INTERSECTION 1107

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

364
1107

J:\Jobs\47857\TECHPRO0\Sheets\FM_GeorgesvilleRood_A.dwg ~ GV-A3 layout ~ last saved by: CCI, sdlowry 06/23/2015 10:30am ~ printed 07/01/2015 09:57am

144 STRAND
FIBER OPTIC CABLE

EX. P.B. W/ PR. FIBER OPTIC
SPLICE ENCLOSURE. SEE NOTES
#1 AND #3 THIS SHEET

IC-1

TC-1

IC-2

LINCOLN PARK CT

GEORGESVILLE RD

144 STRAND
FIBER OPTIC CABLE

S16

140+00

139+00

138+00

137+00

GEORGESVILLE RD AT LINCOLN PARK CT - SIG4140

INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
650

INT #SIG4140 WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
649

NOTES:

1. SEE SHEETS 649 AND 650 FOR INTERCONNECT PLANS BETWEEN INTERSECTIONS

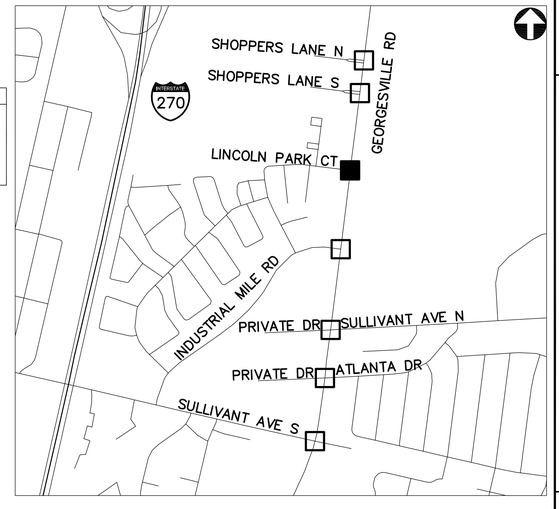
2. SEE SHEET 367 FOR INTERSECTION QUANTITIES

3. SEE SHEET 1069 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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

- SEWER
- WATER
- POWER
- LIGHTING



KEY PLAN
NOT TO SCALE

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

GEORGESVILLE RD AT LINCOLN PARK CT
INTERSECTION SIG4140

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

365
1107

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INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
650

INT #SIG4146 WITH
EXISTING SIGNAL
CONTROLLER

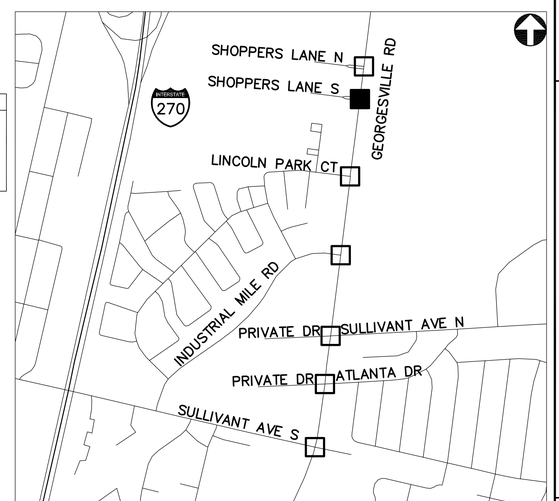
PROPOSED
FIBER CABLE
SEE SHEET
650

NOTES:

1. SEE SHEET 650 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 367 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1070 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT SHOPPERS LN SOUTH - SIG4146

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

GEORGESVILLE RD AT SHOPPERS LN SOUTH
INTERSECTION SIG4146

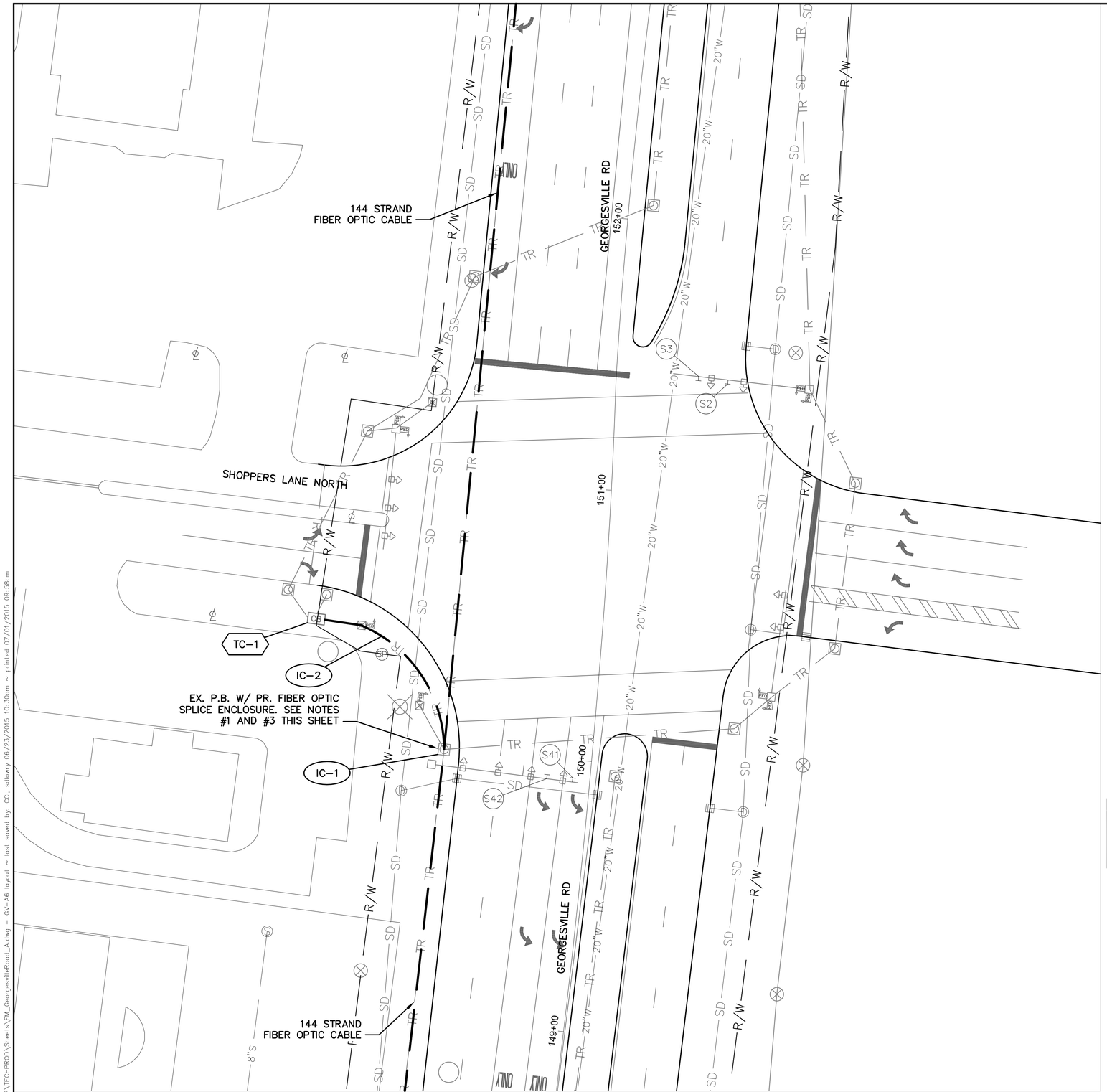
CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

366
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		632	633	633	633	633	633	633	633	804	804	815												
				MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	CONTROLLER ITEM, MISC.: TERMINAL PORT SERVER	CONTROLLER UNIT, TYPE TS2/A2, AS PER PLAN	INTERCONNECT, MISC.: CAT 5E CABLE, OUTDOOR RATED	INTERCONNECT, MISC.: REMOVE EXISTING OVERHEAD INTERCONNECT	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION	SPREAD SPECTRUM RADIO, AS PER PLAN											
		FROM	TO	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH												
INTERSECTION 1036: GEORGESVILLE RD. AT SULLIVANT AVE. (SOUTH)																										
362	IC-1	110+48, 65' RT										75														
362	IC-2	110+48, 65' RT	109+57, 72' LT	163							163	163														
362	IC-3	109+57, 72' LT										35														
362	TC-1	109+57, 72' LT			2		1		1				1													
INTERSECTION 1104: ALKIRE RD. AT HOLT RD.																										
363	TC-1	50+42, 52' LT					1	1																		
363	EC-1	50+39, 49' LT								35																
363	EC-2	50+39, 49' LT	50+43, 38' RT	87						87																
363	WR-1	50+43, 38' RT												1												
INTERSECTION 1107: HOLT RD. AT HOLT RUN DR.																										
364	TC-1	74+78, 73' LT					1	1																		
364	EC-1	74+78, 73' LT	73+92, 21' LT							206																
364	EC-2	73+92, 21' LT								70																
364	EC-3	73+92, 21' LT	73+07, 52' RT	163						326																
364	WR-1	73+07, 52' RT												2												
364	PULL BOX SLACK									20																
INTERSECTION SIG4140: GEORGESVILLE RD. AT LINCOLN PARK CT.																										
365	IC-1	139+68, 53' LT										75														
365	IC-2	139+68, 53' LT	139+69, 60' LT									18														
365	TC-1	139+69, 60' LT			2	1	1						1													
INTERSECTION SIG4146: GEORGESVILLE RD. AT SHOPPERS LN. SOUTH																										
366	IC-1	146+67, 58' LT										75														
366	IC-2	146+67, 58' LT	146+68, 74' LT									26														
366	TC-1	146+68, 74' LT			2	1	1						1													



INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
650

INT #SIG4145 WITH
EXISTING SIGNAL
CONTROLLER

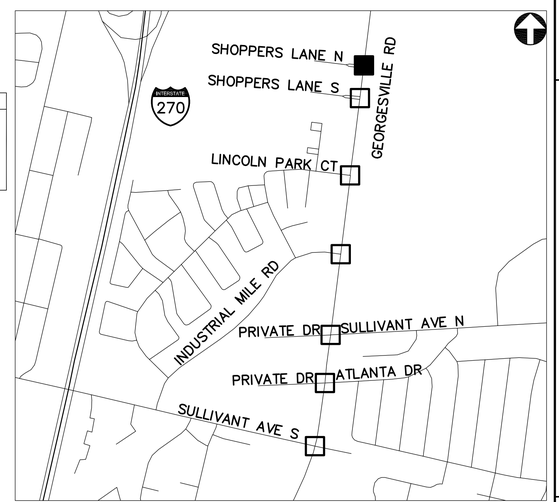
PROPOSED
FIBER CABLE
SEE SHEET
650

NOTES:

1. SEE SHEET 650 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 370 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1071 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

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



KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT SHOPPERS LN NORTH - SIG 4145

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

GEORGESVILLE RD AT SHOPPERS LN NORTH
INTERSECTION SIG4145

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

368
1107

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INTERSECTION COMMUNICATIONS

PROPOSED
FIBER CABLE
SEE SHEET
649

INT #GEOIND WITH
EXISTING SIGNAL
CONTROLLER

PROPOSED
FIBER CABLE
SEE SHEET
649

NOTES:

1. SEE SHEET 649 FOR INTERCONNECT PLAN BETWEEN INTERSECTIONS
2. SEE SHEET 370 FOR INTERSECTION QUANTITIES
3. SEE SHEET 1068 FOR COMMUNICATION DETAILS AND FIBER OPTIC SPLICING PLAN

UNDERGROUND UTILITIES

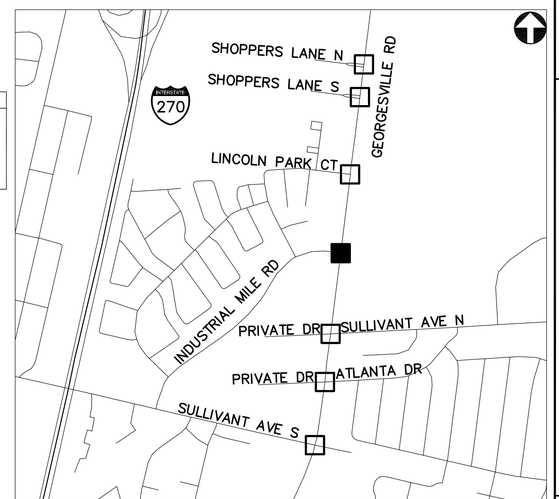
TWO WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

CITY OF COLUMBUS
UTILITY LEGEND

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



KEY PLAN
NOT TO SCALE

GEORGESVILLE RD AT INDUSTRIAL MILE RD - GEOIND

2762 DR. E

HORIZONTAL SCALE IN FEET
0 20 40

PID NUMBER
13034

GEORGESVILLE RD AT INDUSTRIAL MILE RD
INTERSECTION GEOIND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B - AS BUILT (DRAFT)

369
1107

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ESTIMATED QUANTITIES

SHEET NUMBER	REFERENCE NUMBER	STATION		633	633	633	804	804																
				CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER	CONTROLLER ITEM, MISC.: INTERNAL ETHERNET MODULE	CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH	FIBER OPTIC CABLE, MISC.: 24 STRAND CABLE	FIBER OPTIC CABLE, MISC.: PATCH PANEL ENCLOSURE, 24 TERMINATION																
		FROM	TO	EACH	EACH	EACH	FT	EACH																
INTERSECTION SIG4145: GEORGESVILLE RD. AT SHOPPERS LN. NORTH																								
368	IC-1	150+00, 54' LT					75																	
368	IC-2	150+00, 54' LT	150+45, 105' LT				85																	
368	TC-1	150+45, 105' LT		2	1	1		1																
INTERSECTION GEOIND: INDUSTRIAL MILE RD. AT GEORGESVILLE RD.																								
369	IC-1	129+73, 36' LT					75																	
369	IC-2	129+73, 36' LT	129+88, 61' LT				39																	
369	TC-1	129+88, 61' LT		2	1	1		1																
		SHEET TOTAL		4	2	2	274	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2762 DR. E

PID NUMBER 13034

INTERSECTION QUANTITIES
INTERSECTIONS SIG4145 AND GEOIND

CITY OF COLUMBUS TRAFFIC SIGNAL SYSTEM
(CTSS) PHASE B – AS BUILT (DRAFT)

370
1107

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