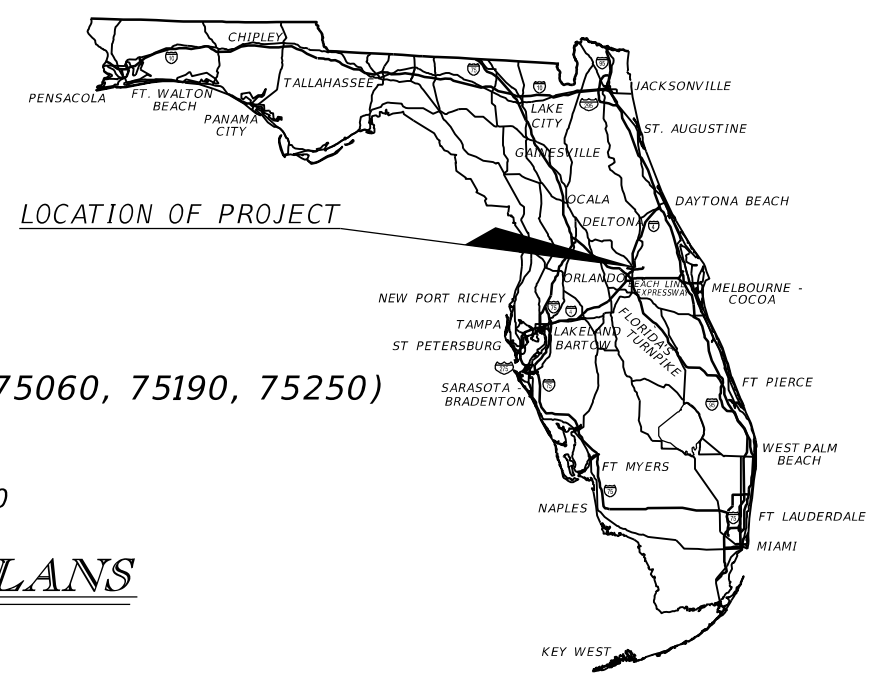


COMPONENTS OF CONTRACT PLANS SET
ITS PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS



A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

FINANCIAL PROJECT ID 435446-1-52-02

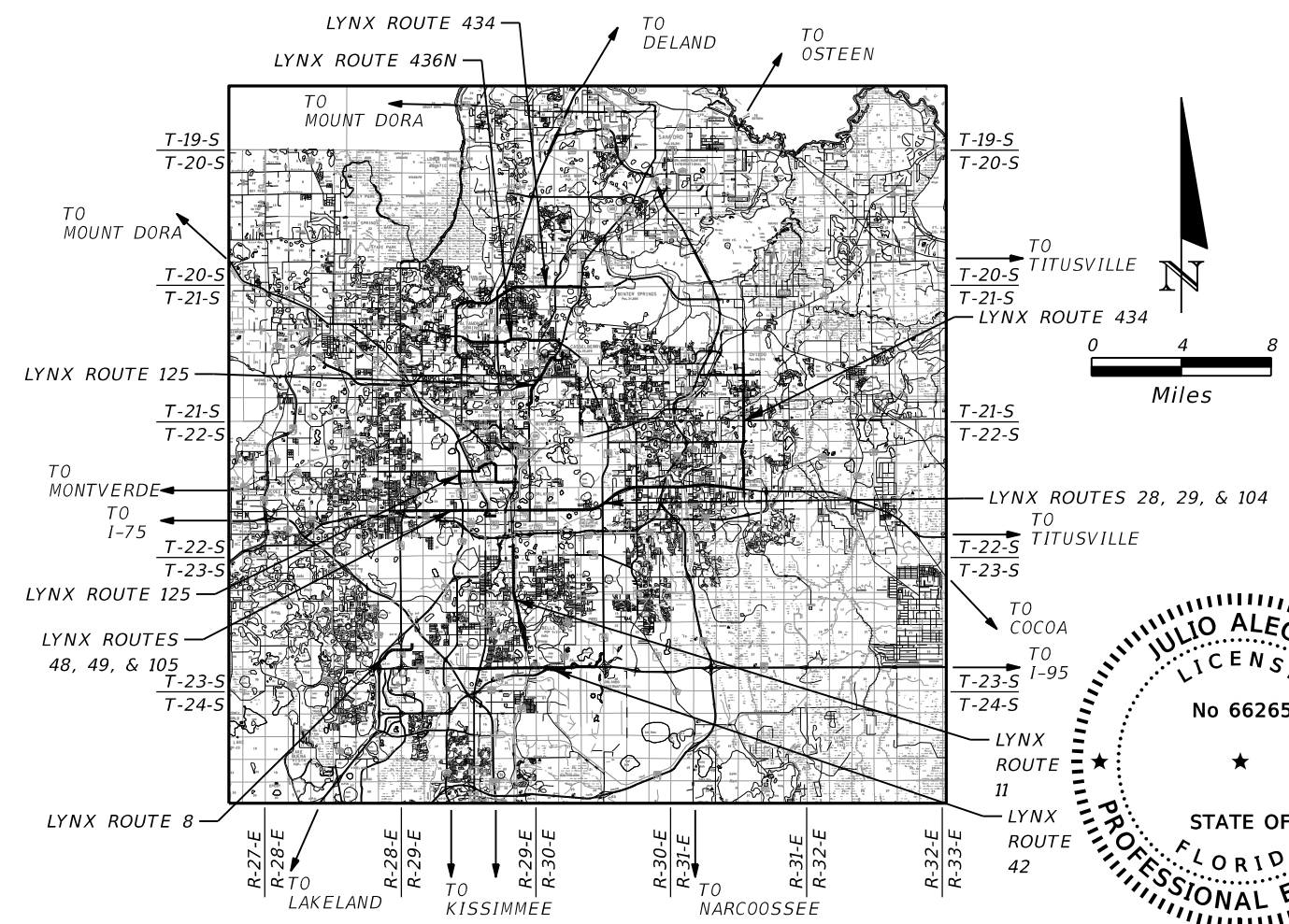
ORANGE COUNTY (75002, 75003, 75010, 75030, 75037, 75040, 75040-101, 75050, 75060, 75190, 75250)
SEMINOLE COUNTY (77010, 77080, 77120, 77120-001, 77170)

STATE ROAD NOS. 15, 50, 416, 423, 434, 436, 482, 500, 527, 600

INDEX OF ITS PLANS

| SHEET NO. | SHEET DESCRIPTION |
|---------------|-------------------------|
| IT-1 | KEY SHEET |
| IT-2 | SUMMARY OF PAY ITEMS |
| IT-3 - IT-13 | SUMMARY OF QUANTITIES |
| IT-14 - IT-15 | PROJECT NOTES |
| IT-17 - IT-56 | PLAN SHEETS |
| IT-57 - IT-70 | ANTENNA MOUNTING DETAIL |
| IT-71 | BUS DETAILS |
| IT-72 - IT-73 | WIRING DIAGRAMS |

INTELLIGENT TRANSPORTATION SYSTEMS PLANS



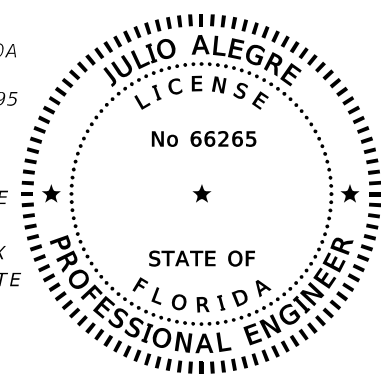
GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, Jan. 2016 Design Standards and revised Index Drawings as appended herein, and Jan. 2016 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

ITS SHOP DRAWINGS
TO BE SUBMITTED TO:
JULIO A. ALEGRE, P.E.
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FL 32746

PLANS PREPARED BY:
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
FLORIDA CERT. NO. EB-0002294
VENDOR NO. F-59-1685550
CONTRACT NO. C-9420



NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

PROJECT LENGTH IS BASED ON Q OF CONSTRUCTION

| LENGTH OF PROJECT | | |
|-------------------------|-------------|-------|
| | LINEAR FEET | MILES |
| ROADWAY | N/A | N/A |
| NET LENGTH OF PROJECT | N/A | N/A |
| EXCEPTIONS | N/A | N/A |
| GROSS LENGTH OF PROJECT | N/A | N/A |

| KEY SHEET REVISIONS | |
|---------------------|-------------|
| DATE | DESCRIPTION |
| | |

INTELLIGENT TRANSPORTATION SYSTEMS PLANS
ENGINEER OF RECORD: JULIO A. ALEGRE, P.E.

P.E. NO.: 66265

| FISCAL YEAR | SHEET NO. |
|-------------|-----------|
| 16 | IT-1 |

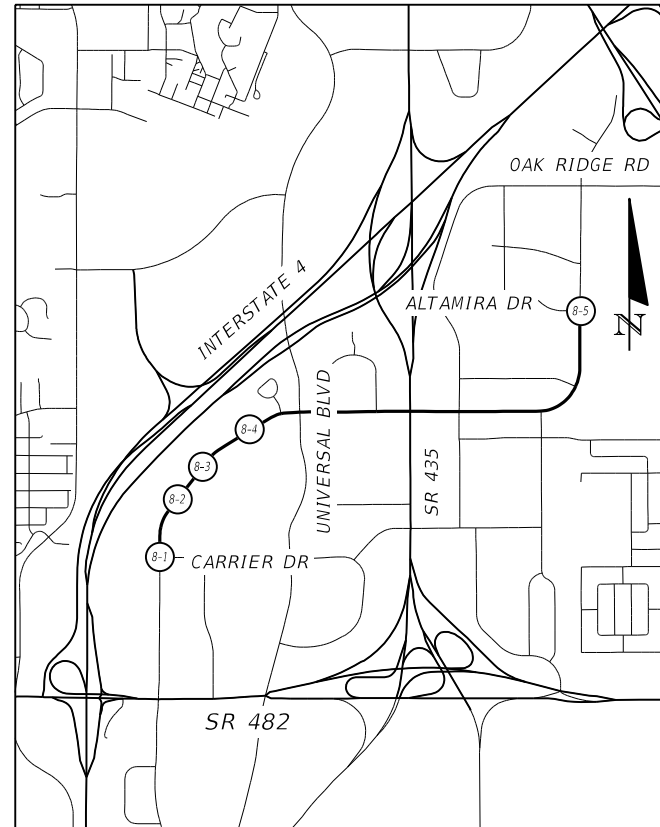
FDOT PROJECT MANAGER: MARK HERRING

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

| FLORIDA DEPARTMENT OF TRANSPORTATION PROPOSAL SUMMARY OF PAY ITEMS FOR PROPOSAL: T5577 | | | | | | |
|--|-----|-------------|--|------------------|-------------|----------------|
| LEAD PROJECT : 435446-1-52-02 | | | DISTRICT : 05 | COUNTY/SECTION : | | |
| PROJECT(S) : 43544615202 | | | | COUNTY : ORANGE | | |
| 0010 SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM | | | | | | |
| SPC | ALT | ITEM NUMBER | ITEM DESCRIPTION | UNIT | 43544615202 | QUANTITY TOTAL |
| | | 0101- 1- | MOBILIZATION 43544615202 | LS | 1.000 | 1.000 |
| | | 0102- 1- | MAINTENANCE OF TRAFFIC 43544615202 | (LS) | 1.000 | 1.000 |
| | | 0102- 60- | WORK ZONE SIGN | ED | 1920.000 | 1920.000 |
| | | 0102- 74- 1 | CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD | ED | 4800.000 | 4800.000 |
| | | 0102- 74- 6 | CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE) | ED | 960.000 | 960.000 |
| | | 0102- 76- | ARROW BOARD / ADVANCE WARNING ARROW PANEL | ED | 240.000 | 240.000 |
| | | 0102- 99- | PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY | ED | 240.000 | 240.000 |
| | | 0630- 2- 11 | CONDUIT, FURNISH & INSTALL, OPEN TRENCH | LF | 96.000 | 96.000 |
| | | 0630- 2- 12 | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE | LF | 15.000 | 15.000 |
| | | 0630- 2- 14 | CONDUIT, FURNISH & INSTALL, ABOVEGROUND | LF | 100.000 | 100.000 |
| T | | 0633- 8- 1 | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL | LF | 8491.000 | 8491.000 |
| | | 0635- 2- 13 | PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE | EA | 3.000 | 3.000 |
| P | | 0663- 1-120 | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM | EA | 148.000 | 148.000 |
| A | | 0663- 1-129 | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, EMITTER FOR BUS *** ITEM IS OBSOLETE AS OF 2015-06-30 00:00:00 FOR LEAD PROJECT SCHEDULED LETTING DATE 2016-01-27 00:00:00 ** | EA | 85.000 | 85.000 |
| | | 0663- 1-600 | SIGNAL PRIORITY & PREEMPTION SYSTEM, REMOVE | EA | 34.000 | 34.000 |
| | | 0671- 2- 11 | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA | EA | 2.000 | 2.000 |
| D | | 0671- 2- 40 | TRAFFIC CONTROLLER, MODIFY | EA | 147.000 | 147.000 |
| | | 0671- 2- 60 | TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN | EA | 2.000 | 2.000 |
| | | 0684- 1- 1 | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL | EA | 14.000 | 14.000 |
| | | 0999- 25- | INITIAL CONTINGENCY AMOUNT, DO NOT BID 43544615202 | LS | 1.000 N | 1.000 |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. SUMMARY OF PAY ITEMS IT-2 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

LYNX ROUTE 8



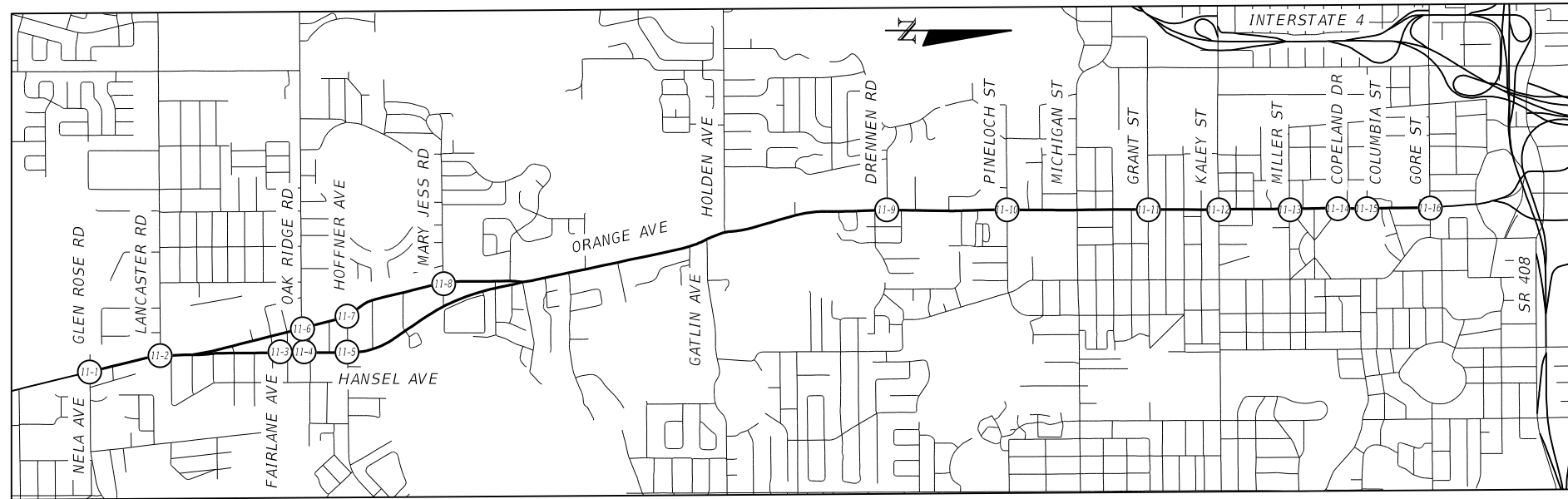
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 8 | 8-1 | INTERNATIONAL DRIVE @ CARRIER DRIVE | IT-16 | IT-58 | ORANGE COUNTY | EAGLE | | | | 50 | | 1 | | | | | 1 |
| 8 | 8-2 | INTERNATIONAL DRIVE @ RAMADA PLAZA CROSS WALK (6550 INTERNATIONAL DRIVE) | IT-16 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 8 | 8-3 | INTERNATIONAL DRIVE @ ROSEN INN (6327 INTERNATIONAL DRIVE) | IT-16 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 8 | 8-4 | INTERNATIONAL DRIVE @ WET N' WILD PED CROSSING (6233 INTERNATIONAL DRIVE) | IT-16 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 8 | 8-5 | INTERNATIONAL DRIVE @ ALTAMIRA DRIVE | IT-17 | N/A | ORLANDO | NAZTEC | | | | | | | | | 1 | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 8 | | | | | | | | 50 | | 4 | 3 | | 5 | | 1 |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-3 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|------------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 11



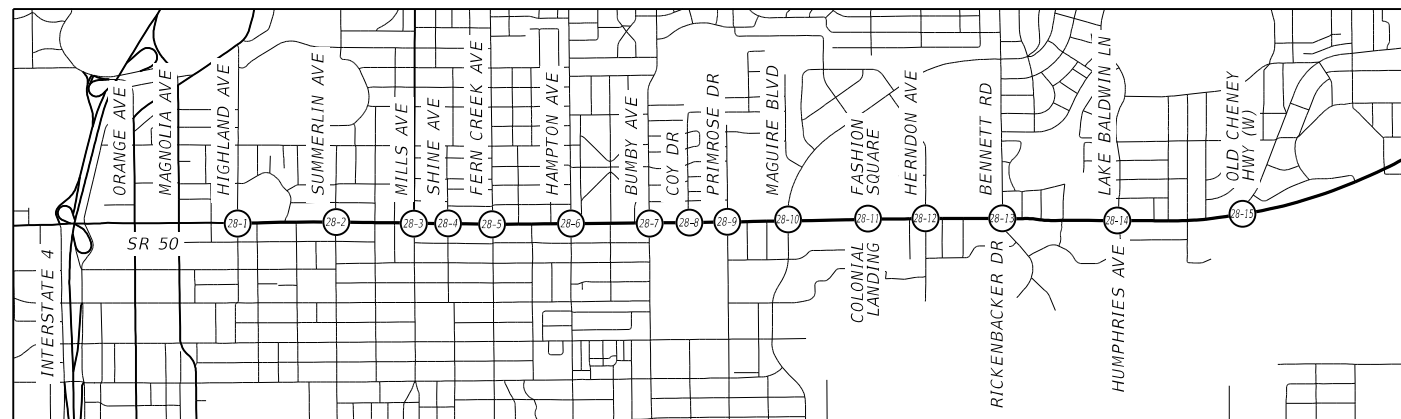
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|--|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 11 | 11-1 | ORANGE AVENUE @ GLEN ROSE ROAD/NELA AVENUE | IT-18 | IT-61 | ORANGE COUNTY | EAGLE | | | | 50 | | | | | | | |
| 11 | 11-2 | ORANGE AVENUE @ LANCASTER ROAD | IT-18 | IT-67 | ORANGE COUNTY | EAGLE | 25 | | 20 | 60 | 1 | 1 | | | 1 | | |
| 11 | 11-3 | HANSEL AVENUE @ FAIRLANE AVENUE | IT-18 | N/A | BELLE ISLE | SEE 11-4 | | | | | | | | | | | |
| 11 | 11-4 | HANSEL AVENUE @ OAK RIDGE ROAD | IT-18 | IT-63 | BELLE ISLE | EAGLE | | | | 95 | | 1 | | 1 | | 1 | 1 |
| 11 | 11-5 | HANSEL AVENUE @ HOFFNER AVENUE | IT-19 | IT-63 | ORANGE COUNTY | EAGLE | | | | 50 | | 1 | | | 1 | | 1 |
| 11 | 11-6 | ORANGE AVENUE @ OAK RIDGE ROAD | IT-19 | IT-62 | ORANGE COUNTY | EAGLE | | | | 50 | | 1 | | | 1 | | |
| 11 | 11-7 | ORANGE AVENUE @ HOFFNER AVENUE | IT-19 | IT-63 | ORANGE COUNTY | EAGLE | | | | 65 | | 1 | | | 1 | | 1 |
| 11 | 11-8 | ORANGE AVENUE @ MARY JESS ROAD | IT-19 | IT-66 | EDGEWOOD | EAGLE | 6 | | 20 | 46 | | 1 | | | 1 | | |
| 11 | 11-9 | ORANGE AVENUE @ DRENNEN ROAD | IT-20 | IT-60 | ORANGE COUNTY | EAGLE | | | | 45 | | 1 | | | 1 | | |
| 11 | 11-10 | ORANGE AVENUE @ PINELOCH AVENUE | IT-20 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | 1 | | |
| 11 | 11-11 | ORANGE AVENUE @ GRANT STREET | IT-20 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | 1 | | |
| 11 | 11-12 | ORANGE AVENUE @ KALEY STREET | IT-20 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 11 | 11-13 | ORANGE AVENUE @ MILLER STREET | IT-21 | IT-58 | ORLANDO | NAZTEC | | | | 70 | | 1 | | | 1 | | |
| 11 | 11-14 | ORANGE AVENUE @ COPELAND DRIVE | IT-21 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | 1 | | |
| 11 | 11-15 | ORANGE AVENUE @ COLUMBIA STREET | IT-21 | IT-61 | ORLANDO | NAZTEC | | | | 65 | | 1 | | | 1 | | |
| 11 | 11-16 | ORANGE AVENUE @ GORE STREET | IT-21 | IT-61 | ORLANDO | NAZTEC | | | | 65 | | 1 | | | 1 | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 11 | | | | | 31 | | 40 | 661 | 1 | 15 | 1 | 1 | 14 | 1 | 3 |
| | | FINAL TOTAL FOR ROUTE 11 | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-4 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|------------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

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LYNX ROUTE 28



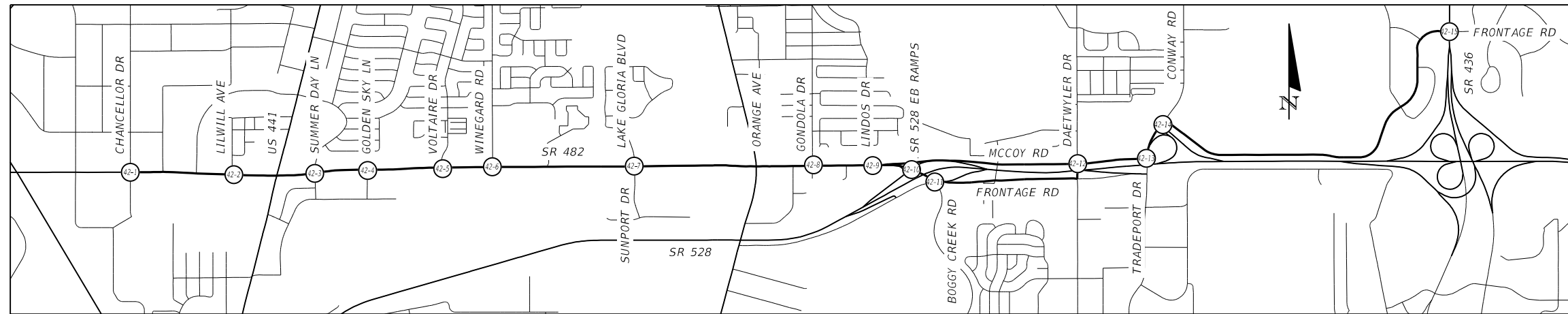
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 28 | 28-1 | SR 50 @ HIGHLAND AVENUE | IT-22 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-2 | SR 50 @ SUMMERLIN AVENUE | IT-22 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-3 | SR 50 @ MILLS AVENUE | IT-22 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-4 | SR 50 @ SHINE AVENUE | IT-22 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-5 | SR 50 @ FERN CREEK AVENUE | IT-23 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-6 | SR 50 @ HAMPTON AVENUE | IT-23 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-7 | SR 50 @ BUMBY AVENUE | IT-23 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-8 | SR 50 @ COY DRIVE | IT-23 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-9 | SR 50 @ PRIMROSE DRIVE | IT-24 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-10 | SR 50 @ MAGUIRE BOULEVARD | IT-24 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-11 | SR 50 @ FASHION SQUARE/COLONIAL LANDING | IT-24 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-12 | SR 50 @ HERNDON AVENUE | IT-24 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-13 | SR 50 @ BENNETT ROAD/RICKENBACKER DRIVE | IT-25 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-14 | SR 50 @ LAKE BALDWIN LANEN/HUMPHRIES AVENUE | IT-25 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | 1 | | |
| 28 | 28-15 | SR 50 @ OLD CHENEY HIGHWAY (W) | IT-25 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | 1 | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 28 | | | | | | | | | | 15 | 14 | | 15 | | |
| | | FINAL TOTAL FOR ROUTE 28 | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-5 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-----------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 42



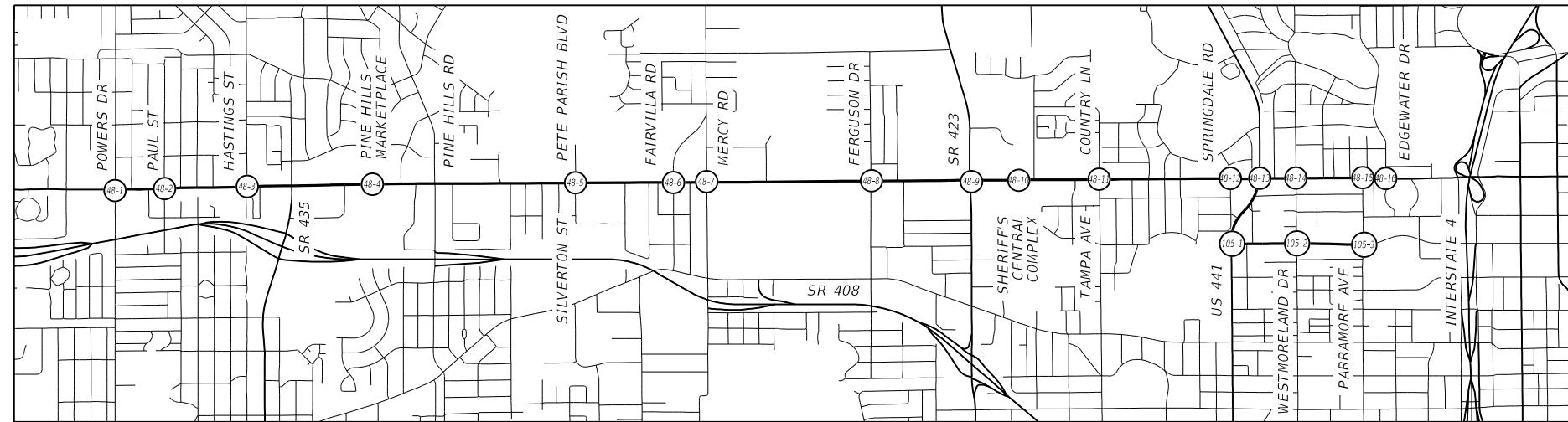
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|--|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 42 | 42-1 | SR 482 @ CHANCELLOR DRIVE | IT-26 | IT-58 | ORANGE COUNTY | EAGLE | | | | 60 | 1 | 1 | 1 | | | | |
| 42 | 42-2 | SR 482 @ LILWILL AVENUE | IT-26 | IT-57 | ORANGE COUNTY | EAGLE | | | | 70 | 1 | 1 | 1 | | | | |
| 42 | 42-3 | SR 482 @ SUMMER DAY LANE | IT-26 | IT-63 | ORANGE COUNTY | EAGLE | | | | 50 | 1 | 1 | 1 | | | | |
| 42 | 42-4 | SR 482 @ GOLDEN SKY LANE | IT-26 | IT-60 | ORANGE COUNTY | EAGLE | | | | 45 | 1 | 1 | 1 | | | | |
| 42 | 42-5 | SR 482 @ VOLTAIRE DRIVE | IT-27 | IT-60 | ORANGE COUNTY | EAGLE | | | | 50 | 1 | 1 | 1 | | | | |
| 42 | 42-6 | SR 482 @ WINEGARD ROAD | IT-27 | IT-57 | ORANGE COUNTY | EAGLE | | | | 55 | 1 | 1 | 1 | | | | |
| 42 | 42-7 | SR 482 @ LAKE GLORIA BLVD/SUNPORT DRIVE | IT-27 | IT-61 | ORANGE COUNTY | EAGLE | | | | 55 | 1 | 1 | 1 | | | | |
| 42 | 42-8 | SR 482 @ GONDOLA DRIVE | IT-27 | IT-57 | ORANGE COUNTY | EAGLE | | | | 50 | 1 | 1 | 1 | | | | |
| 42 | 42-9 | MCCOY ROAD @ LINDOS DRIVE | IT-28 | IT-57 | ORANGE COUNTY | EAGLE | | | | 55 | 1 | 1 | 1 | | | | |
| 42 | 42-10 | JETPORT DRIVE/MCCOY ROAD @ SR 528 WB RAMPS | IT-28 | IT-60 | ORANGE COUNTY | EAGLE | | | | 45 | 1 | 1 | 1 | | | | |
| 42 | 42-11 | BOGGY CREEK ROAD @ JETPORT DRIVE | IT-28 | IT-60 | ORANGE COUNTY | EAGLE | | | | 45 | 1 | 1 | 1 | | | | |
| 42 | 42-12 | MCCOY ROAD @ DAETWYLER DRIVE | IT-28 | IT-60 | ORANGE COUNTY | EAGLE | | | | 45 | 1 | 1 | 1 | | | | |
| 42 | 42-13 | TRADEPORT DRIVE @ MCCOY ROAD (S) | IT-29 | IT-70 | ORLANDO | NAZTEC | | | | | 1 | 1 | 1 | | | | |
| 42 | 42-14 | TRADEPORT DRIVE/CONWAY ROAD @ MCCOY ROAD (N) | IT-29 | IT-70 | ORLANDO | NAZTEC | | | | | 1 | 1 | 1 | | | | |
| 42 | 42-15 | SR 436 @ FRONTAGE ROAD | IT-29 | IT-70 | ORLANDO | NAZTEC | | | | | 1 | 1 | 1 | | | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 42 | | | | | | | | 625 | | 15 | | 15 | | | |
| | | FINAL TOTAL FOR ROUTE 42 | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-6 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-----------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTES 48 & 105



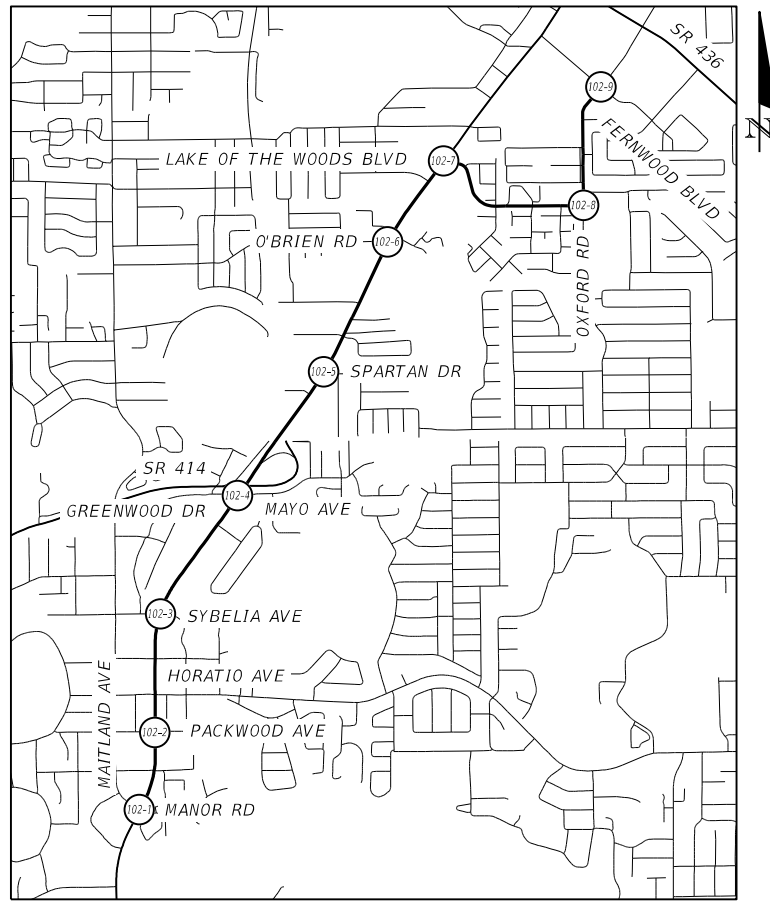
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------|--------------------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 48 | 48-1 | SR 50 @ POWERS DRIVE | IT-30 | IT-57 | ORANGE COUNTY | EAGLE | | | 55 | | | | | | | | |
| 48 | 48-2 | SR 50 @ PAUL STREET | IT-30 | IT-57 | ORANGE COUNTY | EAGLE | | | 50 | | | | | | | | |
| 48 | 48-3 | SR 50 @ HASTINGS STREET | IT-30 | IT-58 | ORANGE COUNTY | EAGLE | | | 50 | | | | | | | | |
| 48 | 48-4 | SR 50 @ PINE HILLS MARKETPLACE | IT-30 | IT-62 | ORANGE COUNTY | EAGLE | | | 55 | | | | | | | | |
| 48 | 48-5 | SR 50 @ PETE PARRISH BOULEVARD/SILVERTON STREET | IT-31 | IT-70 | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-6 | SR 50 @ FAIRVILLA ROAD | IT-31 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-7 | SR 50 @ MERCY ROAD | IT-31 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-8 | SR 50 @ FERGUSON DRIVE | IT-31 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-9 | SR 50 @ SR 423 | IT-32 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-10 | SR 50 @ SHERIFF'S CENTRAL COMPLEX | IT-32 | IT-70 | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-11 | SR 50 @ COUNTRY LN/TAMPA AVENUE | IT-32 | IT-70 | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-12 | SR 50 @ SPRINGDALE ROAD | IT-32 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-13 | SR 50 @ US 441 | IT-33 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-14 | SR 50 @ WESTMORELAND DRIVE | IT-33 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-15 | SR 50 @ PARRAMORE AVENUE | IT-33 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 48 | 48-16 | SR 50 @ EDGEWATER DRIVE | IT-33 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 105 | 105-1 | US 441 @ AMELIA STREET | IT-40 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 105 | 105-2 | AMELIA STREET @ WESTMORELAND DRIVE | IT-40 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| 105 | 105-3 | AMELIA STREET @ PARRAMORE AVENUE | IT-40 | N/A | ORLANDO | NAZTEC | | | | | | | | | | | |
| TOTAL | PLAN TOTAL FOR ROUTE 48 & 105 | | | | | | | | 210 | | 19 | 12 | | 19 | | | 4 |
| THIS SHEET | FINAL TOTAL FOR ROUTE 48 & 105 | | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-7 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-----------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 102

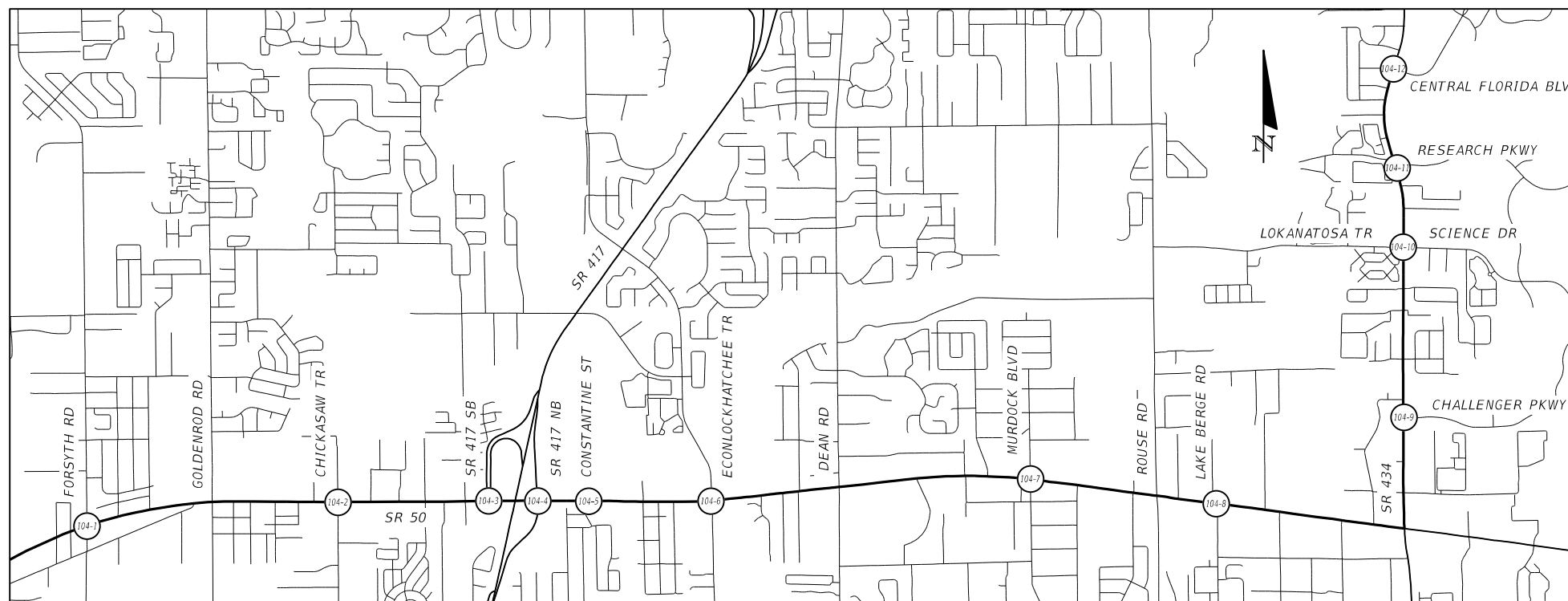


| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|--|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 102 | 102-1 | US 17/92 @ MAITLAND AVENUE/MANOR ROAD | IT-34 | IT-57 | MAITLAND | EAGLE | | | | 65 | | 1 | | | | | |
| 102 | 102-2 | US 17/92 @ PACKWOOD AVENUE | IT-34 | IT-57 | MAITLAND | EAGLE | | | | 65 | | 1 | | | | | |
| 102 | 102-3 | US 17/92 @ SYBELIA AVENUE | IT-34 | IT-57 | MAITLAND | EAGLE | | | | 50 | | 1 | | | | | |
| 102 | 102-4 | US 17/92 @ GREENWOOD DRIVE/MAYO AVENUE | IT-34 | IT-57 | MAITLAND | EAGLE | | | | 60 | | 1 | | | | | |
| 102 | 102-5 | US 17/92 @ SPARTAN DRIVE | IT-35 | IT-59 | SEMINOLE COUNTY | NAZTEC | | | | 205 | | 1 | | | | | |
| 102 | 102-6 | US 17/92 @ O'BRIEN ROAD | IT-35 | IT-59 | SEMINOLE COUNTY | NAZTEC | | | | 185 | | 1 | | | | | |
| 102 | 102-7 | US 17/92 @ LAKE OF THE WOODS BLVD | IT-35 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 60 | | 1 | | | | | |
| 102 | 102-8 | OXFORD ROAD @ LAKE OF THE WOODS BLVD | IT-35 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 55 | | 1 | | | | | |
| 102 | 102-9 | OXFORD ROAD @ FERNWOOD BLVD | IT-36 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 65 | | 1 | | | | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 102 | | | | | | | | 810 | | 9 | | 1 | 8 | 1 | |
| | | FINAL TOTAL FOR ROUTE 102 | | | | | | | | | | | | | | | |

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|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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LYNX ROUTE 104

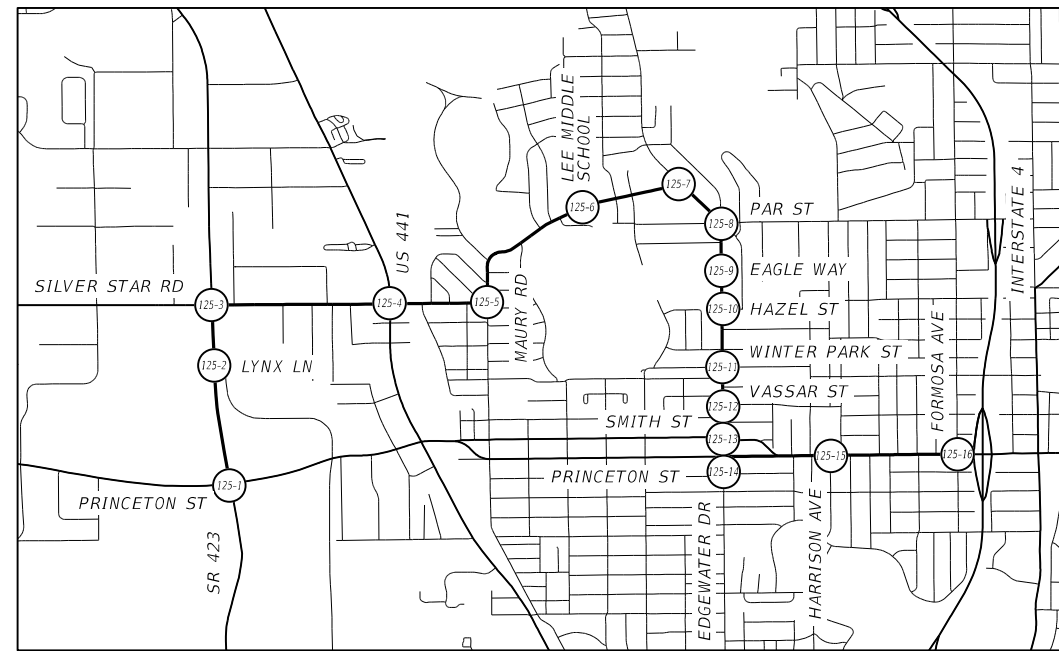


| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) | |
|------------|---------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|---|
| 104 | 104-1 | SR 50 @ FORSYTH ROAD | IT-37 | IT-57 | ORANGE COUNTY | EAGLE | | | | 50 | | | | | | | | 1 |
| 104 | 104-2 | SR 50 @ CHICKASAW TRAIL | IT-37 | IT-57 | ORANGE COUNTY | EAGLE | | | | 60 | | | | | | | | 1 |
| 104 | 104-3 | SR 50 @ SR 417 SB | IT-37 | IT-61 | ORANGE COUNTY | EAGLE | | | | 60 | | | | | | | | 1 |
| 104 | 104-4 | SR 50 @ SR 417 NB | IT-37 | IT-65 | ORANGE COUNTY | EAGLE | 15 | | | 75 | | | | | | | | 1 |
| 104 | 104-5 | SR 50 @ CONSTANTINE STREET | IT-38 | IT-57 | ORANGE COUNTY | EAGLE | | | | 50 | | | | | | | | 1 |
| 104 | 104-6 | SR 50 @ ECONLOCKHATCHEE TRAIL | IT-38 | IT-57 | ORANGE COUNTY | EAGLE | | | | 60 | | | | | | | | 1 |
| 104 | 104-7 | SR 50 @ MURDOCK BOULEVARD | IT-38 | IT-57 | ORANGE COUNTY | EAGLE | | | | 70 | | | | | | | | 1 |
| 104 | 104-8 | SR 50 @ LAKE BERGE ROAD | IT-38 | IT-57 | ORANGE COUNTY | EAGLE | | | | 90 | | | | | | | | 1 |
| 104 | 104-9 | SR 434 @ CHALLENGER PARKWAY | IT-39 | IT-63 | ORANGE COUNTY | EAGLE | | | | 70 | | | | | | | | 1 |
| 104 | 104-10 | SR 434 @ LOKANATOSA TRAIL/SCIENCE DRIVE | IT-39 | IT-63 | ORANGE COUNTY | EAGLE | | | | 50 | | | | | | | | 1 |
| 104 | 104-11 | SR 434 @ RESEARCH PARKWAY | IT-39 | IT-63 | ORANGE COUNTY | EAGLE | | | | 60 | | | | | | | | 1 |
| 104 | 104-12 | SR 434 @ CENTRAL FLORIDA BOULEVARD | IT-39 | IT-57 | ORANGE COUNTY | EAGLE | 20 | | | 55 | 1 | 1 | | | | | | 1 |
| TOTAL | | PLAN TOTAL FOR ROUTE 104 | | | | | 35 | | | 750 | 1 | 12 | | | 12 | | | 6 |
| THIS SHEET | | FINAL TOTAL FOR ROUTE 104 | | | | | | | | | | | | | | | | |

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|-----------|-------------|------|-------------|--|--|-----------------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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LYNX ROUTE 125



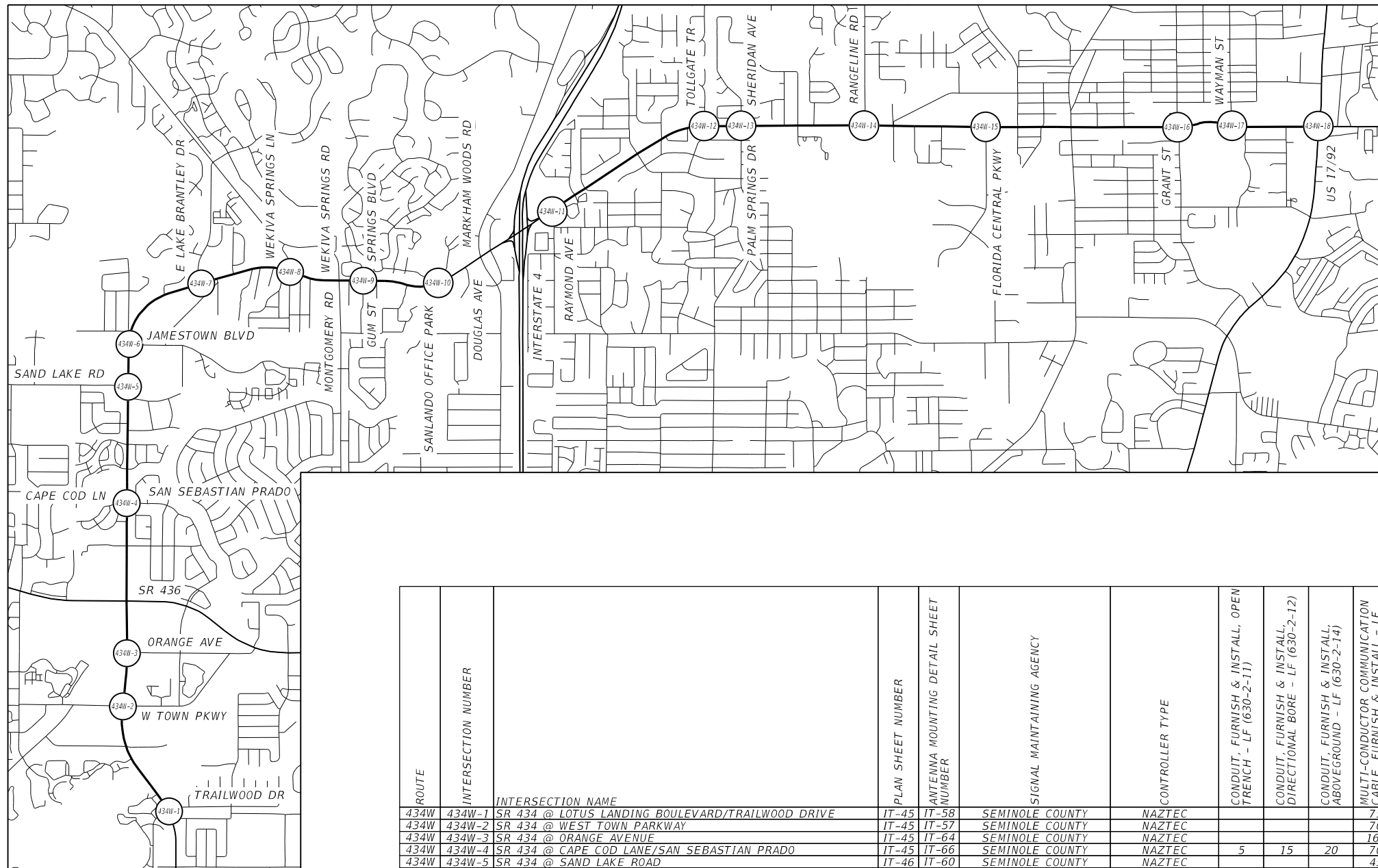
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------|---------------------|--------------------------------------|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 125 | 125-1 | SR 423 @ PRINCETON STREET | IT-41 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | | | |
| 125 | 125-2 | SR 423 @ LYNX LANE | IT-41 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | | | |
| 125 | 125-3 | SR 423 @ SILVER STAR ROAD | IT-41 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | | | |
| 125 | 125-4 | SILVER STAR ROAD @ US 441 | IT-41 | IT-63 | ORLANDO | NAZTEC | | | | 50 | | 1 | | | | | |
| 125 | 125-5 | SILVER STAR ROAD @ RIO GRANDE AVENUE | IT-42 | IT-60 | ORANGE COUNTY | EAGLE | | | | 70 | | 1 | | | | | |
| 125 | 125-6 | MAURY ROAD @ LEE MIDDLE SCHOOL | IT-42 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | | | |
| 125 | 125-7 | MAURY ROAD @ EDGEWATER DRIVE | IT-42 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | | | |
| 125 | 125-8 | EDGEWATER DRIVE @ PAR STREET | IT-42 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | | | |
| 125 | 125-9 | EDGEWATER DRIVE @ EAGLE WAY | IT-43 | N/A | ORLANDO | NAZTEC | | | | | | 1 | 1 | | | | |
| 125 | 125-10 | EDGEWATER DRIVE @ HAZEL STREET | IT-43 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | | | |
| 125 | 125-11 | EDGEWATER DRIVE @ WINTER PARK STREET | IT-43 | IT-62 | ORLANDO | NAZTEC | | | | 45 | | 1 | | | | | |
| 125 | 125-12 | EDGEWATER DRIVE @ VASSAR STREET | IT-43 | IT-58 | ORLANDO | NAZTEC | | | | 85 | | 1 | | | | | |
| 125 | 125-13 | EDGEWATER DRIVE @ SMITH STREET | IT-44 | IT-69 | ORLANDO | NAZTEC | | | | 70 | | 1 | | | | | |
| 125 | 125-14 | EDGEWATER DRIVE @ PRINCETON STREET | IT-44 | IT-70 | ORLANDO | NAZTEC | | | | | | 1 | | | | | |
| 125 | 125-15 | PRINCETON STREET @ HARRISON AVENUE | IT-44 | IT-62 | ORLANDO | NAZTEC | | | | 45 | | 1 | | | | | |
| 125 | 125-16 | PRINCETON STREET @ FORMOSA AVENUE | IT-44 | IT-63 | ORLANDO | NAZTEC | | | | 55 | | 1 | | | | | |
| TOTAL | | PLAN TOTAL FOR ROUTE 125 | | | | | | | | 420 | | 16 | 4 | | 16 | | |
| THIS SHEET | | FINAL TOTAL FOR ROUTE 125 | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-10 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 434W



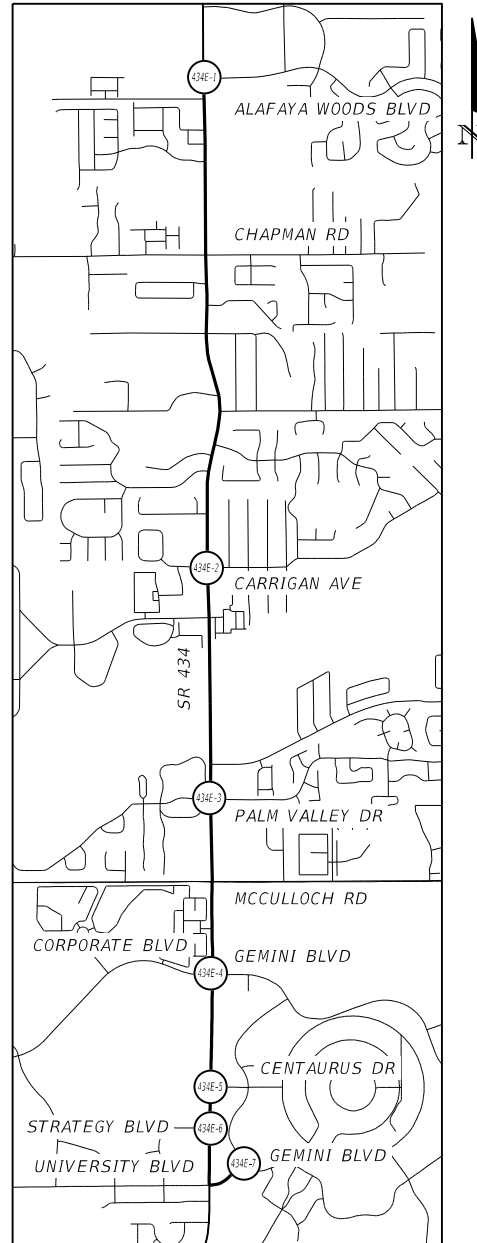
| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE - CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|--|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 434W | 434W-1 | SR 434 @ LOTUS LANDING BOULEVARD/TRAILWOOD DRIVE | IT-45 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 75 | 1 | | | | | | |
| 434W | 434W-2 | SR 434 @ WEST TOWN PARKWAY | IT-45 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | | 70 | 1 | | | | | | |
| 434W | 434W-3 | SR 434 @ ORANGE AVENUE | IT-45 | IT-64 | SEMINOLE COUNTY | NAZTEC | | | | 160 | 1 | | | | | | |
| 434W | 434W-4 | SR 434 @ CAPE COD LANE/SAN SEBASTIAN PRADO | IT-45 | IT-66 | SEMINOLE COUNTY | NAZTEC | 5 | 15 | 20 | 70 | 1 | | | | | | |
| 434W | 434W-5 | SR 434 @ SAND LAKE ROAD | IT-46 | IT-60 | SEMINOLE COUNTY | NAZTEC | | | | 45 | 1 | | | | | | |
| 434W | 434W-6 | SR 434 @ JAMESTOWN BOULEVARD | IT-46 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | | 45 | 1 | | | | | | |
| 434W | 434W-7 | SR 434 @ E. LAKE BRANTLEY DRIVE | IT-46 | IT-66 | SEMINOLE COUNTY | NAZTEC | 20 | | 20 | 65 | 1 | | | | | | |
| 434W | 434W-8 | SR 434 @ WEKIVA SPRINGS LANE | IT-46 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | | 55 | 1 | | | | | | |
| 434W | 434W-9 | SR 434 @ GUM STREET/SPRINGS BOULEVARD | IT-47 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 55 | 1 | | | | | | |
| 434W | 434W-10 | SR 434 @ SANLANDO OFFICE PARK | IT-47 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 80 | 1 | | | | | | |
| 434W | 434W-11 | SR 434 @ RAYMOND AVENUE | IT-47 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 55 | 1 | | | | | | |
| 434W | 434W-12 | SR 434 @ TOLLGATE TRAIL | IT-47 | IT-59 | SEMINOLE COUNTY | NAZTEC | | | | 250 | 1 | | | | | | |
| 434W | 434W-13 | SR 434 @ PALM SPRINGS DRIVE/SHERIDAN AVENUE | IT-48 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 60 | 1 | | | | | | |
| 434W | 434W-14 | SR 434 @ RANGELINE ROAD | IT-48 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | | 50 | 1 | | | | | | |
| 434W | 434W-15 | SR 434 @ FLORIDA CENTRAL PARKWAY | IT-48 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | | 60 | 1 | | | | | | |
| 434W | 434W-16 | SR 434 @ GRANT STREET | IT-48 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | | 50 | 1 | | | | | | |
| 434W | 434W-17 | SR 434 @ WAYMAN STREET | IT-49 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | | 65 | 1 | | | | | | |
| 434W | 434W-18 | SR 434 @ US 17/92 | IT-49 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | | 50 | 1 | | | | | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 434W | | | | | 25 | 15 | 40 | 1360 | 1 | 18 | | | 18 | | |
| | | FINAL TOTAL FOR ROUTE 434W | | | | | | | | | | | | | | | |

| <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | | DATE | DESCRIPTION | DATE | DESCRIPTION | | | | | <p>METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294</p> | | | <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>VARIES</td> <td>ORANGE SEMINOLE</td> <td>435446-1-52-02</td> </tr> </tbody> </table> | | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | <p>SHEET NO. IT-11</p> | |
|--|-----------------|----------------------|-------------|------|-------------|------|-------------|--|--|--|--|---|--|--|--|--|--|----------|--------|----------------------|--------|-----------------|----------------|-----------------------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | | | | | | | | | | | | | |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 434E

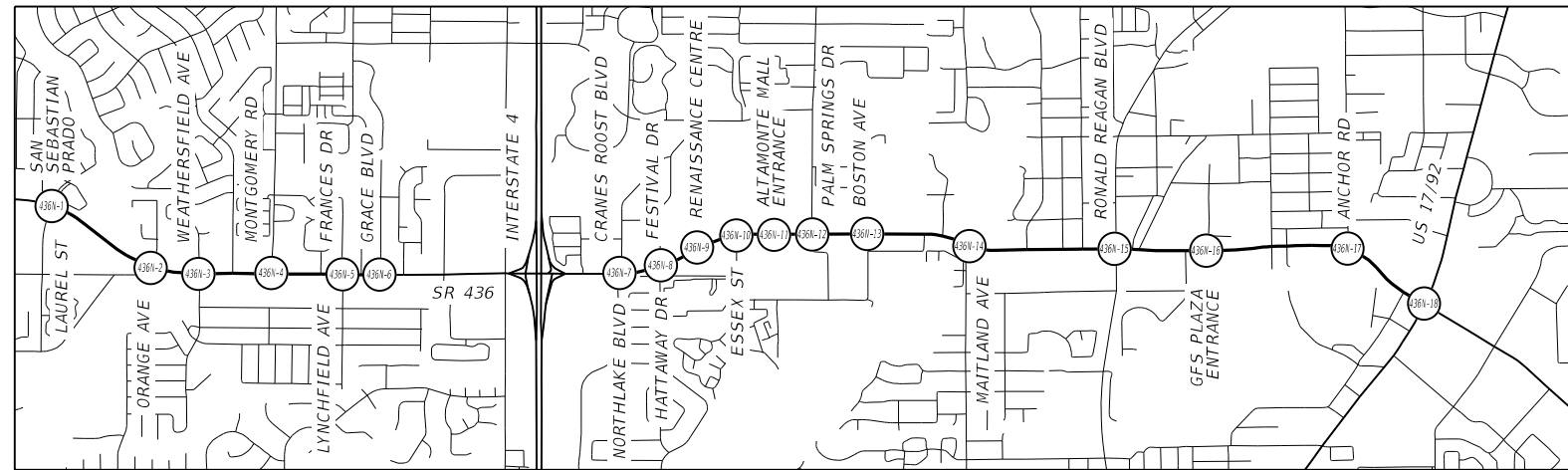


| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------|---------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 434E | 434E-1 | SR 434 @ ALAFAYA WOODS BOULEVARD | IT-50 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | | 65 | | 1 | | | 1 | | |
| 434E | 434E-2 | SR 434 @ CARRIGAN AVENUE | IT-50 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | | 50 | | 1 | | | 1 | | |
| 434E | 434E-3 | SR 434 @ PALM VALLEY DRIVE | IT-50 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | | 50 | | 1 | | | 1 | | |
| 434E | 434E-4 | SR 434 @ CORPORATE BOULEVARD/GEMINI BOULEVARD | IT-50 | IT-66 | ORANGE COUNTY | EAGLE | 5 | | 20 | 50 | | 1 | | | 1 | | |
| 434E | 434E-5 | SR 434 @ CENTAURUS DRIVE | IT-51 | IT-63 | ORANGE COUNTY | EAGLE | | | | 50 | | 1 | | | 1 | | |
| 434E | 434E-6 | SR 434 @ STRATEGY BOULEVARD | IT-51 | IT-57 | ORANGE COUNTY | EAGLE | | | | 80 | | 1 | | | 1 | | |
| 434E | 434E-7 | UNIVERSITY BOULEVARD @ GEMINI BOULEVARD | IT-51 | IT-58 | ORANGE COUNTY | EAGLE | | | | 65 | | 1 | | | 1 | | |
| TOTAL | | PLAN TOTAL FOR ROUTE 434E | | | | | 5 | | 20 | 410 | | 7 | | | 7 | | |
| THIS SHEET | | FINAL TOTAL FOR ROUTE 434E | | | | | | | | | | | | | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. SUMMARY OF QUANTITIES IT-12 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LYNX ROUTE 436N



| ROUTE | INTERSECTION NUMBER | INTERSECTION NAME | PLAN SHEET NUMBER | ANTENNA MOUNTING DETAIL SHEET NUMBER | SIGNAL MAINTAINING AGENCY | CONTROLLER TYPE | CONDUIT, FURNISH & INSTALL, OPEN TRENCH - LF (630-2-11) | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE - LF (630-2-12) | CONDUIT, FURNISH & INSTALL, ABOVEGROUND - LF (630-2-14) | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL - LF (633-8-1) | PULL & SPLICE BOX, F&I, 36" ROUND SPLICE VAULT - EA (635-2-13) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM - EA (663-1-120) | SIGNAL PRIORITY AND PREEMPTION SYSTEM, REMOVE - EA (663-1-600) | TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA - EA (671-2-11) | TRAFFIC CONTROLLER, MODIFY - EA (671-2-40) | TRAFFIC CONTROLLER, REMOVE-CABINET TO REMAIN - EA (671-2-60) | MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL - EA (684-1-1) |
|------------------|---------------------|---|-------------------|--------------------------------------|---------------------------|-----------------|---|--|---|---|--|---|--|---|--|--|---|
| 436N | 436N-1 | SR 436 @ LAUREL STREET/SAN SEBASTIAN PRADO | IT-52 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | 50 | | 1 | | | | | | |
| 436N | 436N-2 | SR 436 @ ORANGE AVENUE | IT-52 | IT-68 | SEMINOLE COUNTY | NAZTEC | | | 65 | | 1 | | | | | | |
| 436N | 436N-3 | SR 436 @ WEATHERSFIELD AVENUE | IT-52 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | 60 | | 1 | | | | | | |
| 436N | 436N-4 | SR 436 @ MONTGOMERY ROAD | IT-52 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | 65 | | 1 | | | | | | |
| 436N | 436N-5 | SR 436 @ FRANCES DRIVE/LYNCHFIELD AVENUE | IT-53 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | 55 | | 1 | | | | | | |
| 436N | 436N-6 | SR 436 @ GRACE BOULEVARD | IT-53 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | 55 | | 1 | | | | | | |
| 436N | 436N-7 | SR 436 @ CRANES ROOST BOULEVARD/NORTHLAKE BOULEVARD | IT-53 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | 70 | | 1 | | | | | | |
| 436N | 436N-8 | SR 436 @ FESTIVAL DRIVE/HATTAWAY DRIVE | IT-53 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | 55 | | 1 | | | | | | |
| 436N | 436N-9 | SR 436 @ RENAISSANCE CENTRE | IT-54 | IT-61 | SEMINOLE COUNTY | NAZTEC | | | 85 | | 1 | | | | | | |
| 436N | 436N-10 | SR 436 @ ESSEX STREET | IT-54 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | 70 | | 1 | | | | | | |
| 436N | 436N-11 | SR 436 @ ALTAMONTE MALL ENTRANCE | IT-54 | IT-63 | SEMINOLE COUNTY | NAZTEC | | | 50 | | 1 | | | | | | |
| 436N | 436N-12 | SR 436 @ PALM SPRINGS DRIVE | IT-54 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | 50 | | 1 | | | | | | |
| 436N | 436N-13 | SR 436 @ BOSTON AVENUE | IT-55 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | 75 | | 1 | | | | | | |
| 436N | 436N-14 | SR 436 @ MAITLAND AVENUE | IT-55 | IT-62 | SEMINOLE COUNTY | NAZTEC | | | 50 | | 1 | | | | | | |
| 436N | 436N-15 | SR 436 @ RONALD REAGAN BOULEVARD | IT-55 | IT-58 | SEMINOLE COUNTY | NAZTEC | | | 65 | | 1 | | | | | | |
| 436N | 436N-16 | SR 436 @ GFS PLAZA | IT-55 | IT-62 | SEMINOLE COUNTY | NAZTEC | | | 45 | | 1 | | | | | | |
| 436N | 436N-17 | SR 436 @ ANCHOR ROAD | IT-56 | IT-62 | SEMINOLE COUNTY | NAZTEC | | | 45 | | 1 | | | | | | |
| 436N | 436N-18 | SR 436 @ US 17/92 | IT-56 | IT-57 | SEMINOLE COUNTY | NAZTEC | | | 60 | | 1 | | | | | | |
| TOTAL THIS SHEET | | PLAN TOTAL FOR ROUTE 436N | | | | | | | 1070 | | 18 | | | | 18 | | |
| | | FINAL TOTAL FOR ROUTE 436N | | | | | | | | | | | | | | | |
| TOTAL BUS DETAIL | | PLAN TOTAL FOR BUSES (IT-71) | | | | | | | 2125 | | | | | | | | |
| | | FINAL TOTAL FOR BUSES (IT-71) | | | | | | | | | | | | | | | |
| GRAND TOTAL | | PLAN TOTAL | | | | | 96 | 15 | 100 | 8491 | 3 | 148 | 34 | 2 | 147 | 2 | 14 |
| | | FINAL TOTAL | | | | | | | | | | | | | | | |

| PAY ITEM NO. | PAY ITEM DESCRIPTION | UNIT | QUANTITY | | TOTAL | | DESIGN NOTES | CONSTRUCTION REMARKS |
|--------------|---|------|----------|---|-------|---|--------------|----------------------|
| | | | P | F | P | F | | |
| 101-1 | MOBILIZATION | LS | 1 | | 1 | | | |
| 102-1 | MAINTENANCE OF TRAFFIC | LS | 1 | | 1 | | | |
| 663-1-129 | SIGNAL PRIORITY AND PREEMPTION SYSTEM (F&I, GPS, EMITTER FOR BUS) | EA | 85 | | 85 | | | |

| PAY ITEM NO. | PAY ITEM DESCRIPTION | UNIT | PHASE I | | | TOTAL | | DESIGN NOTES | CONSTRUCTION REMARKS |
|--------------|--|------|---------------|----------|---|-------|---|--------------|----------------------|
| | | | DURATION DAYS | QUANTITY | | P | F | | |
| | | | | P | F | | | | |
| 102-60 | WORK ZONE SIGNS | ED | 240 | 8 | | 1920 | | | |
| 102-74-1 | CHANNELIZING DEVICE, (TYPE 1, 11, VP, DRUM, VEHICULAR LONG, CHANNEL, DEVICE) | ED | 240 | 20 | | 4800 | | | |
| 102-74-6 | CHANNELIZING DEVICE, (PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE) | ED | 240 | 4 | | 960 | | | |
| 102-76 | ARROWBOARD/ADVANCE WARNING ARROW PANEL | ED | 240 | 1 | | 240 | | | |
| 102-99 | PORTABLE CHANGEABLE MESSAGE SIGN - TEMPORARY | ED | 240 | 1 | | 240 | | | |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-13 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

SUMMARY OF QUANTITIES

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

GENERAL:

1. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE AS NOTED ON THE GENERAL NOTES.
2. RIGHT OF WAY LINES ARE APPROXIMATE THEREFORE ANY DEVIATIONS FROM THE PLANS OR ENCROACHMENT SHALL BE APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY SIGNAL ISSUES RELATED TO THE SIGNAL WORK DURING THIS PROJECT. WORK AT EACH TRAFFIC SIGNAL IS ANTICIPATED TO LAST 4-8 HOURS.
4. THE CONTRACTOR SHALL COMPLETE EQUIPMENT AND AVL SOFTWARE INSTALLATION AND TESTING FOR ONE BUS WITHIN 30 DAYS OF NTP. UPON SUCCESSFUL COMPLETION OF SYSTEM TESTING USING INITIAL BUS, THE CONTRACTOR SHALL COMPLETE EQUIPMENT AND AVL SOFTWARE INSTALLATION AND TESTING ON REMAINING BUSES TO ENSURE A FULLY OPERATIONAL AND COMPLETE AND FUNCTIONING TRANSIT SIGNAL PRIORITY SYSTEM.
5. SPECIAL EVENTS INCLUDE, BUT ARE NOT LIMITED TO:

MAGIC BASKETBALL GAMES
CITRUS BOWL
ORLANDO ARENA EVENTS

SYSTEM INTEGRATION:

1. TSP CENTRAL SOFTWARE AND SERVERS TO BE SUPPLIED BY OTHERS.
2. THE FOLLOWING IS REQUIRED (ALL EQUIPMENT, SOFTWARE, PERSONNEL, ETC. ARE INCLUSIVE):
 - A. AVL SYSTEM COMMUNICATES TO BUS EMITTER.
 - B. BUS EMITTER COMMUNICATES TO TSP INTERSECTION EQUIPMENT.
 - C. INTERSECTION TSP EQUIPMENT COMMUNICATES TO CONTROLLER. CONTRACTOR IS TO NOTE THAT 17 INTERSECTIONS ARE EQUIPPED WITH INSYNC ADAPTIVE SIGNAL EQUIPMENT AND TWO INTERSECTIONS ARE EQUIPPED WITH SCOOT ADAPTIVE SIGNAL EQUIPMENT AND WILL REQUIRE ADDITIONAL PROGRAMMING.
 - D. INTERSECTION TSP EQUIPMENT COMMUNICATES TO TSP CENTRAL SOFTWARE.

FIELD TESTING, CERTIFICATE OF INSURANCE & CERTIFICATION:

1. SUBJECT THE SYSTEM TO FIELD ACCEPTANCE TESTS (FATS). DEVELOP AND SUBMIT A TEST PLAN FOR FATS TO THE ENGINEER FOR APPROVAL WITHIN 30 DAYS OF NTP. THE ENGINEER RESERVES THE RIGHT TO WITNESS ALL FATS. DEVELOP, DOCUMENT, AND IMPLEMENT A FIELD UNIT VERIFICATION/VALIDATION PERFORMANCE TEST PLAN. THE VERIFICATION PORTION OF THE PLAN SHALL DEMONSTRATE SYSTEM PERFORMANCE TO THE SPECIFICATIONS GUARANTEED BY THE EQUIPMENT PROVIDER AND INSURE THAT THE INSTALLATIONS ARE COMPLETED PER MANUFACTURER DOCUMENTED INSTALLATION PROCEDURES. THE VALIDATION PORTION OF THE PLAN SHALL DEMONSTRATE THAT THE SYSTEM MEETS USER EXPECTATIONS AS DEFINED IN THE CONTRACT DOCUMENT(S) AND INSURE THAT ANY/ALL PERFORMANCE ISSUES HAVE BEEN ADDRESSED.

TEMPORARY TRAFFIC CONTROL:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEXES 600, 604, 605, 615, 616, 617, AND 660.
2. NO LANE CLOSURES ALLOWED BETWEEN 6 AM AND 9 PM.
3. WORK ZONE SPEED SHALL BE THE SAME AS THE EXISTING POSTED SPEED.
4. THE CONTRACTOR IS ONLY ALLOWED TO CLOSE ONE QUADRANT OF A SIGNALIZED INTERSECTION AT A TIME.
5. WHEN WORK ACTIVITIES REQUIRE THE TEMPORARY CLOSURE OF A SIDEWALK, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED PER DESIGN STANDARD INDEX 660. A SIDEWALK MAY ONLY BE CLOSED DURING ACTIVE WORK PERIODS AND MUST BE REOPENED TO PEDESTRIANS AT THE END OF THE WORK PERIOD.
6. PORTABLE MESSAGE SIGN DISPLAYS AND LOCATIONS:
"ONE LANE ROAD AHEAD" + "BE PREPARED TO STOP" AND "LT/RT LANE CLOSED AHEAD" + "MERGE RT/LT"
PLACED 500' IN ADVANCE OF THE LANE CLOSURE.

PAY ITEM NOTES:

1. PAY ITEM 633-8-1 INCLUDES ALL OPTICOM™ MODEL 1070 GPS INSTALLATION CABLING NEEDED TO CONNECT THE OPTICOM™ MODEL 3100 GPS RADIO UNIT TO THE OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR LOCATED IN THE TRAFFIC SIGNAL CABINET AS SHOWN IN THE WIRING DIAGRAMS, AND THE OPTICOM™ MODEL 2171 VEHICLE INTERFACE CABLE FROM OPTICOM™ MODEL 1050 GPS/RADIO ANTENNA TO THE OPTICOM™ MODEL 2101 LOW PRIORITY RADIO/GPS CONTROL UNIT AS SHOWN IN THE BUS DETAILS. CONTRACTOR TO VERIFY LINEAR FEET OF OPTICOM™ MODEL 1070 GPS INSTALLATION CABLE REQUIRED AT INTERSECTIONS AND OPTICOM™ MODEL 2171 VEHICLE INTERFACE CABLE IN THE BUSES. THIS ITEM ALSO INCLUDES ANY OTHER MISCELLANEOUS EQUIPMENT OR MATERIALS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
2. PAY ITEM 663-1-120 INCLUDES FURNISHING AND INSTALLATION OF THE OPTICOM™ MODEL 3100 GPS RADIO UNIT AS SHOWN IN THE WIRING DIAGRAMS WITH THE MOUNTING BRACKET SHOWN IN THE ANTENNA MOUNTING DETAILS FOR OVERHEAD MOUNTING OR THE OPTICOM™ MODEL 1050 GPS/RADIO ANTENNA AS SHOWN IN THE WIRING DIAGRAMS WITH THE OPTICOM™ MODEL 3101 GPS RADIO UNIT AND CABLING FOR CABINET MOUNTING. ALSO INCLUDED WITH OVERHEAD OR CABINET MOUNTING IS THE OPTICOM™ MODEL 760 CARD RACK (WITH REMOVAL OF CARD RACK WHERE EXISTING) AND 9 PIN HARNESS, THE OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR (WITH REMOVAL OF GPS OR INFRARED PHASE SELECTOR WHERE EXISTING), THE OPTICOM™ MODEL 768 AUXILIARY INTERFACE PANEL AND CABLE, ANY ETHERNET CABLE (LENGTH TO BE DETERMINED BY THE CONTRACTOR) TO CONNECT THE OPTICOM™ MODEL 764 PHASE SELECTOR TO THE ETHERNET SWITCH, AND ANY ADDITIONAL WIRING TO CONNECT THE EXISTING INFRARED EQUIPMENT TO THE NEW OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR. THE PAY ITEM SHALL ALSO INCLUDE THE COST OF ALL NECESSARY TREE TRIMMING AROUND SIGNAL POLE OR SIGNAL CABINET AND A FULLY FUNCTIONAL OPTICOM™. THIS ITEM ALSO INCLUDES ANY OTHER MISCELLANEOUS EQUIPMENT OR MATERIALS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
3. PAY ITEM 663-1-129 INCLUDES FURNISHING AND INSTALLATION OF THE OPTICOM™ MODEL 2101 LOW PRIORITY RADIO/GPS CONTROL UNIT, MOUNTING HARDWARE, AND OPTICOM™ MODEL 1050 GPS/RADIO ANTENNA AS SHOWN IN THE BUS DETAILS. THIS ITEM ALSO INCLUDES ANY OTHER MISCELLANEOUS EQUIPMENT OR MATERIALS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
4. PAY ITEM 663-1-600 INCLUDES REMOVAL OF EXISTING GPS SIGNAL PRIORITY AND PREEMPTION SYSTEMS ONLY. ALL INFRARED SIGNAL PRIORITY AND PREEMPTION SYSTEMS ARE TO REMAIN.
5. PAY ITEM 671-2-11 INCLUDES A CONTROLLER READILY EQUIPPED TO HANDLE GPS TRANSIT SIGNAL PRIORITY CAPABILITY AS WELL AS THE TRANSFER OF ALL EXISTING SIGNAL TIMING AND ALL OTHER CONTROLLER INFORMATION INTO THE NEW CONTROLLER. THIS ITEM ALSO INCLUDES ANY OTHER MISCELLANEOUS EQUIPMENT OR MATERIALS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
6. PAY ITEM 671-2-40 INCLUDES THE COST OF CONTROLLER FIRMWARE UPGRADE TO HANDLE TRANSIT SIGNAL PRIORITY, ANY COST TO INTEGRATE TSP WITH INSYNC ADAPTIVE SIGNAL EQUIPMENT, AND ANY COST TO INTEGRATE TSP WITH SCOOT ADAPTIVE SIGNAL EQUIPMENT.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-14 |
|-----------|-------------|------|-------------|--|--|--------------------|----------------------|---------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

PROJECT NOTES

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MAINTAINING AGENCY:
CITY OF BELLE ISLE
1600 NELA AVENUE
BELLE ISLE, FL 32809
407-851-7730

SIGNAL MAINTENANCE CONTRACTOR:
CONTROL SPECIALISTS
707 NICOLET AVENUE
SUITE 100
WINTER PARK, FL 32789
407-628-1965

MAINTAINING AGENCY:
ORANGE COUNTY TRAFFIC OPERATIONS
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FL 32839-9205
407-836-7830

MAINTAINING AGENCY:
UNIVERSITY OF CENTRAL FLORIDA
3528 NORTH PERSEUS LOOP, BUILDING 16
P.O. BOX 163020
ORLANDO, FL 32816-3020
407-823-3893

MAINTAINING AGENCY:
SEMINOLE COUNTY PUBLIC WORKS
TRAFFIC ENGINEERING
140 BUSH LOOP
SANFORD, FL 32773
(407) 665-5677

UTILITY COMPANY

AT&T CORP/PEA-TRANSMISSION
AT&T FLORIDA DISTRIBUTION
AT&T LOCAL/TCG/LNS
BRIGHTHOUSE NETWORKS
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
LEVEL 3 COMMUNICATIONS
ORANGE COUNTY UTILITIES
ORLANDO UTILITIES COMMISSION-WATER
TECO-PEOPLES GAS
VERIZON BUSINESS f/k/a MCI

TELEPHONE NUMBERS

407-578-8000
407-351-8180
813-342-0512
407-532-8509
352-459-4671
813-909-1210
720-888-4988
407-254-9718
407-434-2560
407-420-2678
972-729-6240

UTILITY COMPANY

AT&T CORP/PEA-TRANSMISSION
AT&T FLORIDA DISTRIBUTION
AT&T LOCAL/TCG/LNS
BRIGHTHOUSE NETWORKS
CENTRAL FLORIDA EXPRESSWAY AUTHORITY
CENTURY LINK
CITY OF ORLANDO - BUREAU OF WASTEWATER
CITY OF ORLANDO TRAFFIC ENG SIGNAL FIBER
COMCAST COMMUNICATIONS
CROWN CASTLE f/k/a NEXT G COMMUNICATION
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
FLORIDA GAS TRANSMISSION
FPL FIBERNET
LEVEL 3 COMMUNICATIONS
ORANGE COUNTY UTILITIES
ORLANDO TELEPHONE COMPANY d/b/a SUMMIT BROADBAND
ORLANDO UTILITIES COMMISSION-WATER
TECO-PEOPLES GAS
TOWER CLOUD INC.
VERIZON BUSINESS f/k/a MCI

TELEPHONE NUMBERS

407-578-8000
407-351-8180
813-342-0512
407-532-8509
407-316-3800
407-830-3458
407-246-3525
407-246-2636
407-849-3611
724-416-2028
352-459-4671
813-909-1210
407-838-7171
305-552-2931
720-888-4988
407-254-9718
407-595-7329
407-434-2560
407-420-2678
727-471-5640
972-729-6240

UTILITY COMPANY

AT&T FLORIDA DISTRIBUTION
AT&T CORP/PEA-TRANSMISSION
AT&T LOCAL/TCG/LNS
BRIGHTHOUSE NETWORKS
CENTURY LINK
CITY OF ALTAMONTE SPRINGS
CITY OF CASSELBERRY
CITY OF LONGWOOD
CITY OF ORLANDO-BUREAU OF WASTEWATER
CITY OF OVIEDO-WATER/SEWER
CITY OF SANFORD PUBLIC WORKS
CITY OF SANFORD UTILITIES DEPARTMENT
COMCAST COMMUNICATIONS
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
FLORIDA GAS TRANSMISSION
FLORIDA PUBLIC UTILITIES
FPL FIBERNET
LEVEL 3 COMMUNICATIONS
SANLAND UTILITIES
TECO-PEOPLES GAS
TOWER CLOUD INC.
LEVEL 3 COMMUNICATIONS
UTILITIES INC OF LONGWOOD
VERIZON BUSINESS f/k/a MCI

MAINTAINING AGENCY:
CITY OF EDGEWOOD
405 LARUE AVENUE
EDGEWOOD, FL 32809
407-851-2920

TELEPHONE NUMBERS

MAINTAINING AGENCY:
CITY OF ORLANDO TRANSPORTATION ENGINEERING DIVISION
P.O. BOX 4990
ORLANDO, FL 32802-4990
407-246-2281

UTILITY COMPANY

TELEPHONE NUMBERS

UTILITY COMPANY

AT&T CORP/PEA-TRANSMISSION
AT&T FLORIDA DISTRIBUTION
AT&T LOCAL/TCG/LNS
BRIGHTHOUSE NETWORKS
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
LEVEL 3 COMMUNICATIONS
ORANGE COUNTY UTILITIES
ORLANDO UTILITIES COMMISSION-WATER
TECO-PEOPLES GAS
VERIZON BUSINESS f/k/a MCI

407-578-8000
407-351-8180
813-342-0512
407-532-8509
352-459-4671
813-909-1210
720-888-4988
407-254-9718
407-434-2560
407-420-2678
972-729-6240

AT&T CORP/PEA-TRANSMISSION
AT&T FLORIDA DISTRIBUTION
AT&T LOCAL/TCG/LNS
BRIGHTHOUSE NETWORKS
CENTURY LINK
CITY OF ORLANDO - BUREAU OF WASTEWATER
CITY OF ORLANDO TRAFFIC ENG SIGNAL FIBER
COMCAST COMMUNICATIONS
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
FLORIDA GAS TRANSMISSION
FPL FIBERNET
ORANGE COUNTY UTILITIES
ORLANDO TELEPHONE COMPANY d/b/a SUMMIT BROADBAND
ORLANDO UTILITIES COMMISSION-DISTRIBUTION
ORLANDO UTILITIES COMMISSION-TRANSMISSION
ORLANDO UTILITIES COMMISSION-WATER
TOWER CLOUD INC.
VERIZON BUSINESS f/k/a MCI
WINDSTREAM FLORIDA INC.

407-578-8000
407-351-8180
813-342-0512
407-532-8509
407-830-3458
407-246-3525
407-246-3626
407-849-3611
352-459-4671
813-909-1210
407-838-7171
305-552-2931
407-254-9718
407-595-7329
407-434-4151
407-434-4134
407-434-2560
727-471-5640
972-729-6240
386-462-6530

MAINTAINING AGENCY:
CITY OF MAITLAND PUBLIC WORKS
1776 INDEPENDENCE LANE
MAITLAND, FL 32751
407-539-6217

SIGNAL MAINTENANCE CONTRACTOR:
CONTROL SPECIALISTS
707 NICOLET AVENUE
SUITE 100
WINTER PARK, FL 32789
407-628-1965

TELEPHONE NUMBERS

UTILITY COMPANY

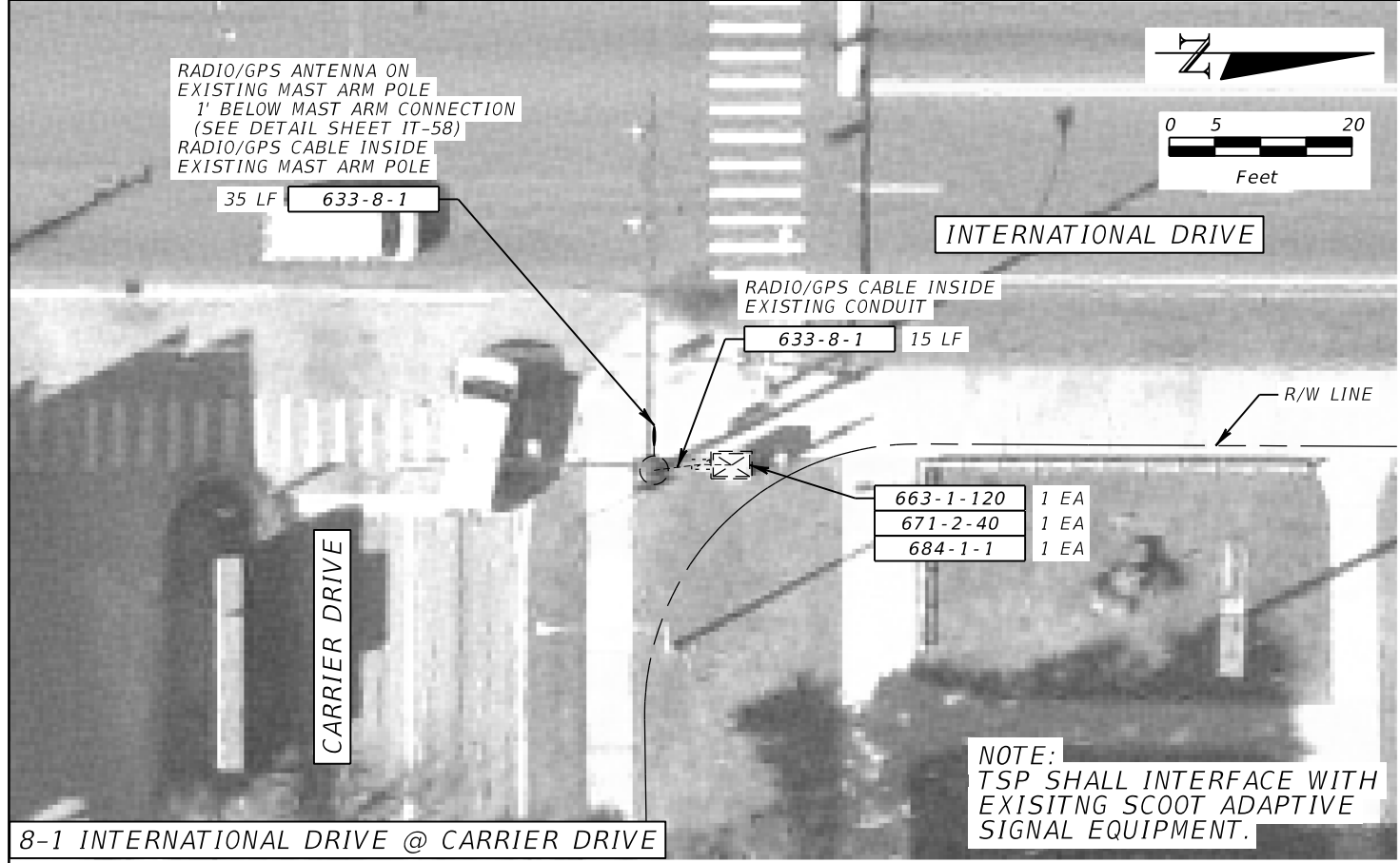
AT&T FLORIDA DISTRIBUTION
BRIGHTHOUSE NETWORKS
CENTURY LINK
CITY OF CASSELBERRY
CITY OF MAITLAND
DUKE ENERGY-DISTRIBUTION
DUKE ENERGY-TRANSMISSION
LEVEL 3 COMMUNICATIONS
TECO-PEOPLES GAS
TOWER CLOUD INC.
VERIZON BUSINESS f/k/a MCI

407-351-8180
407-532-8509
407-830-3458
407-262-7725 x-1234
352-539-6216
352-459-4671
813-909-1210
720-888-4988
407-420-2678
727-471-5640
972-729-6240

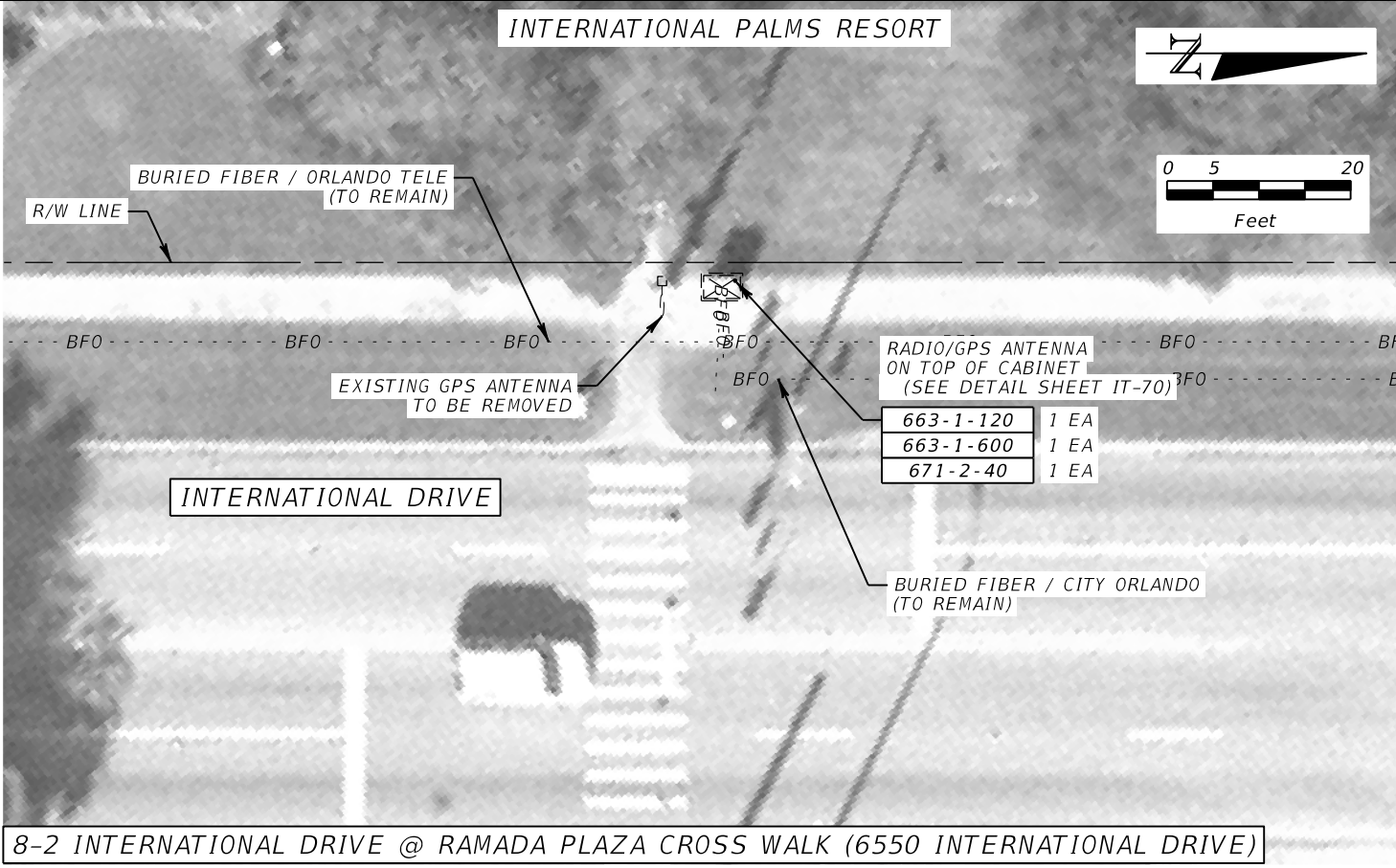
* SEE SUMMARY OF QUANTITY SHEETS FOR APPROPRIATE MAINTAINING AGENCY.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PROJECT NOTES | SHEET NO. |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|---------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | IT-15 |

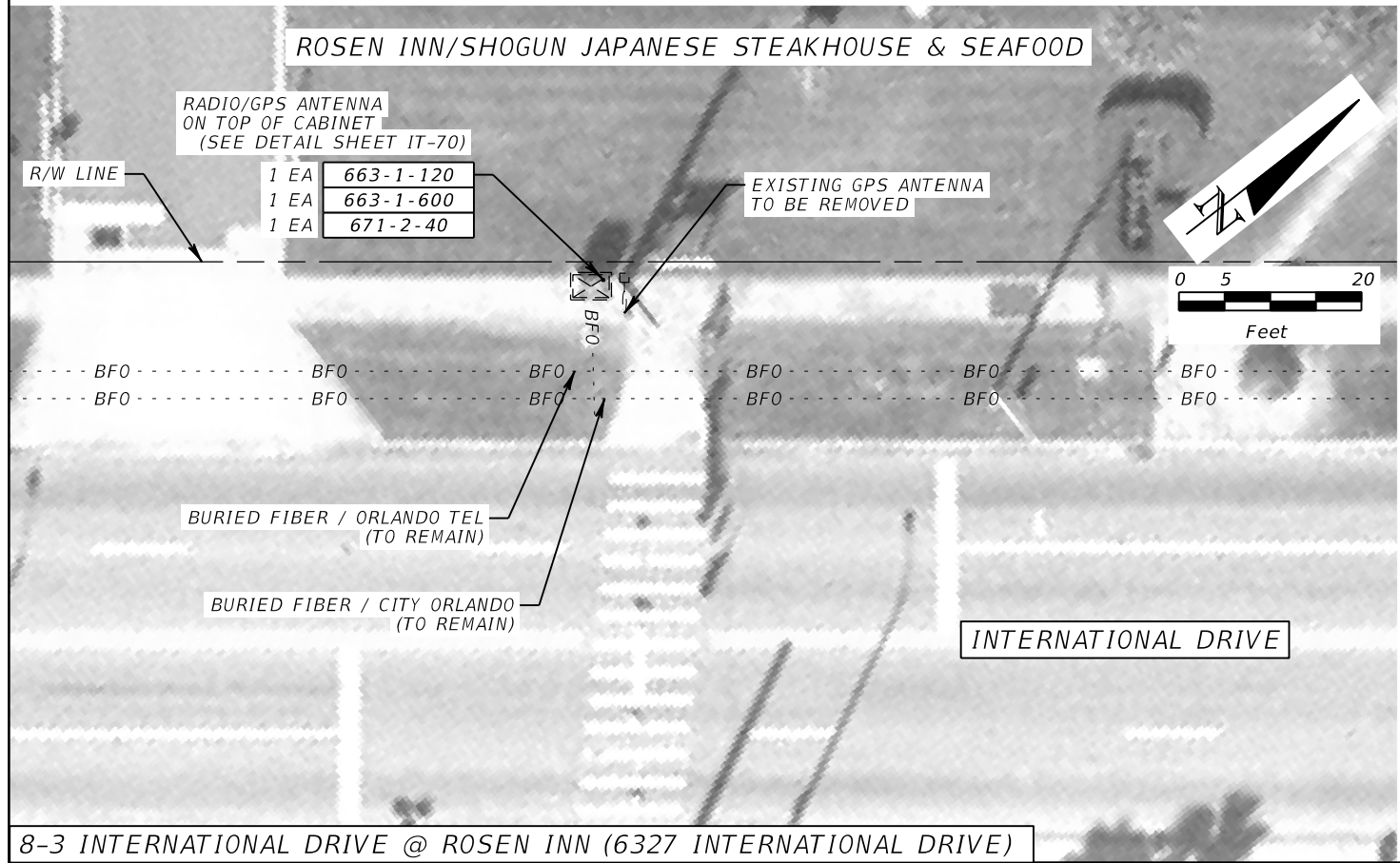
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



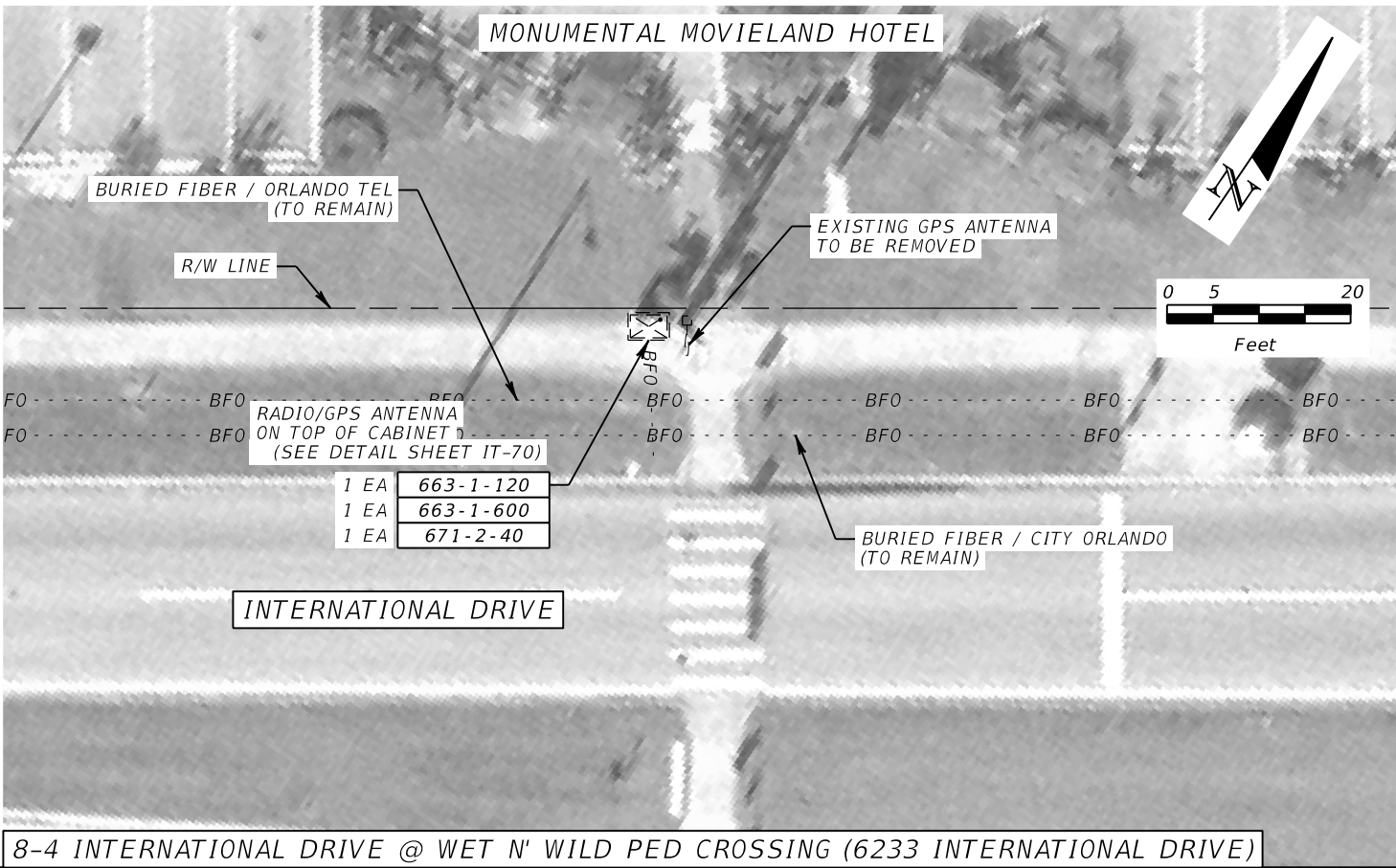
8-1 INTERNATIONAL DRIVE @ CARRIER DRIVE



8-2 INTERNATIONAL DRIVE @ RAMADA PLAZA CROSS WALK (6550 INTERNATIONAL DRIVE)



8-3 INTERNATIONAL DRIVE @ ROSEN INN (6327 INTERNATIONAL DRIVE)



8-4 INTERNATIONAL DRIVE @ WET N' WILD PED CROSSING (6233 INTERNATIONAL DRIVE)

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

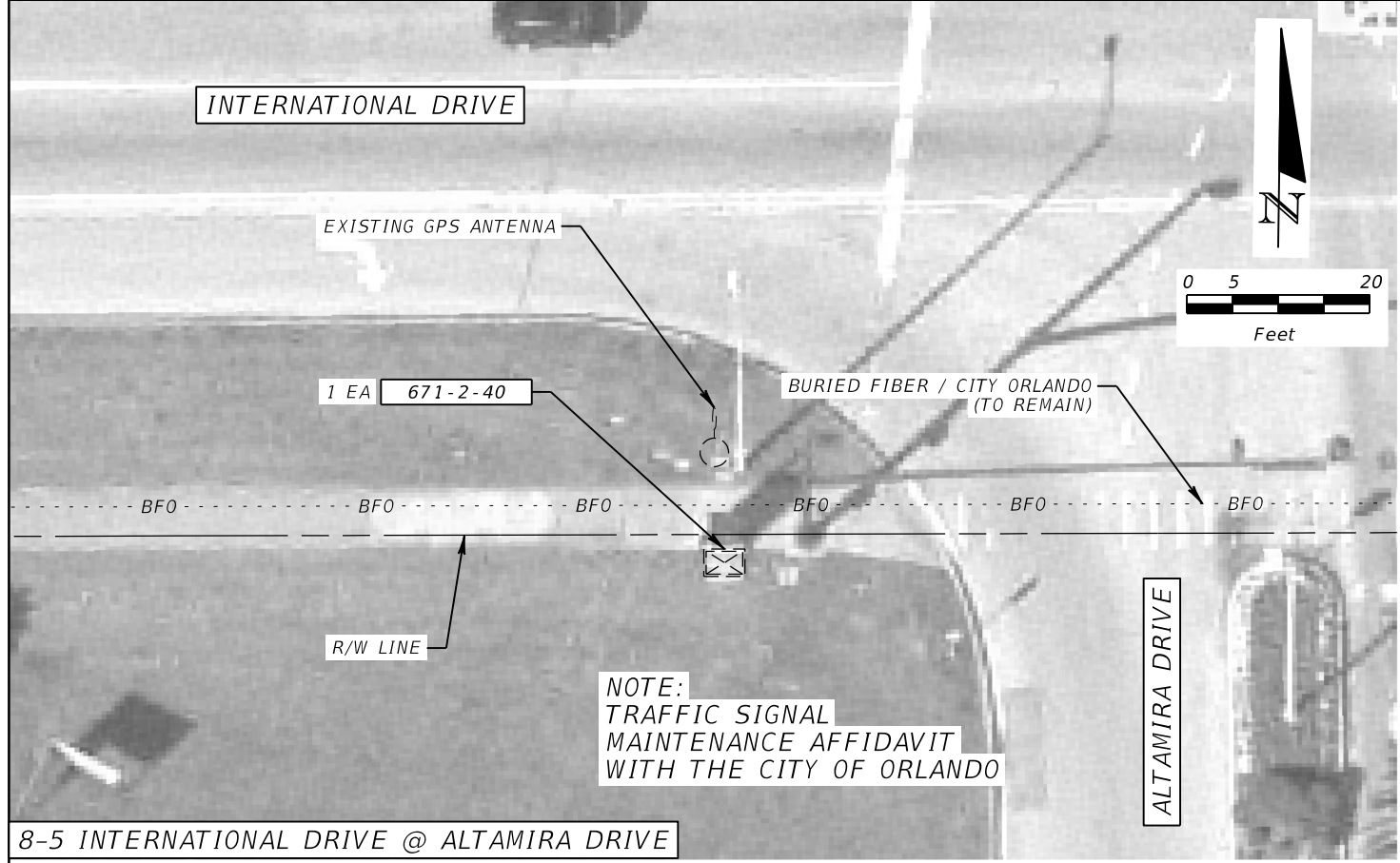
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| | | |
|--|--------------------|----------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-16

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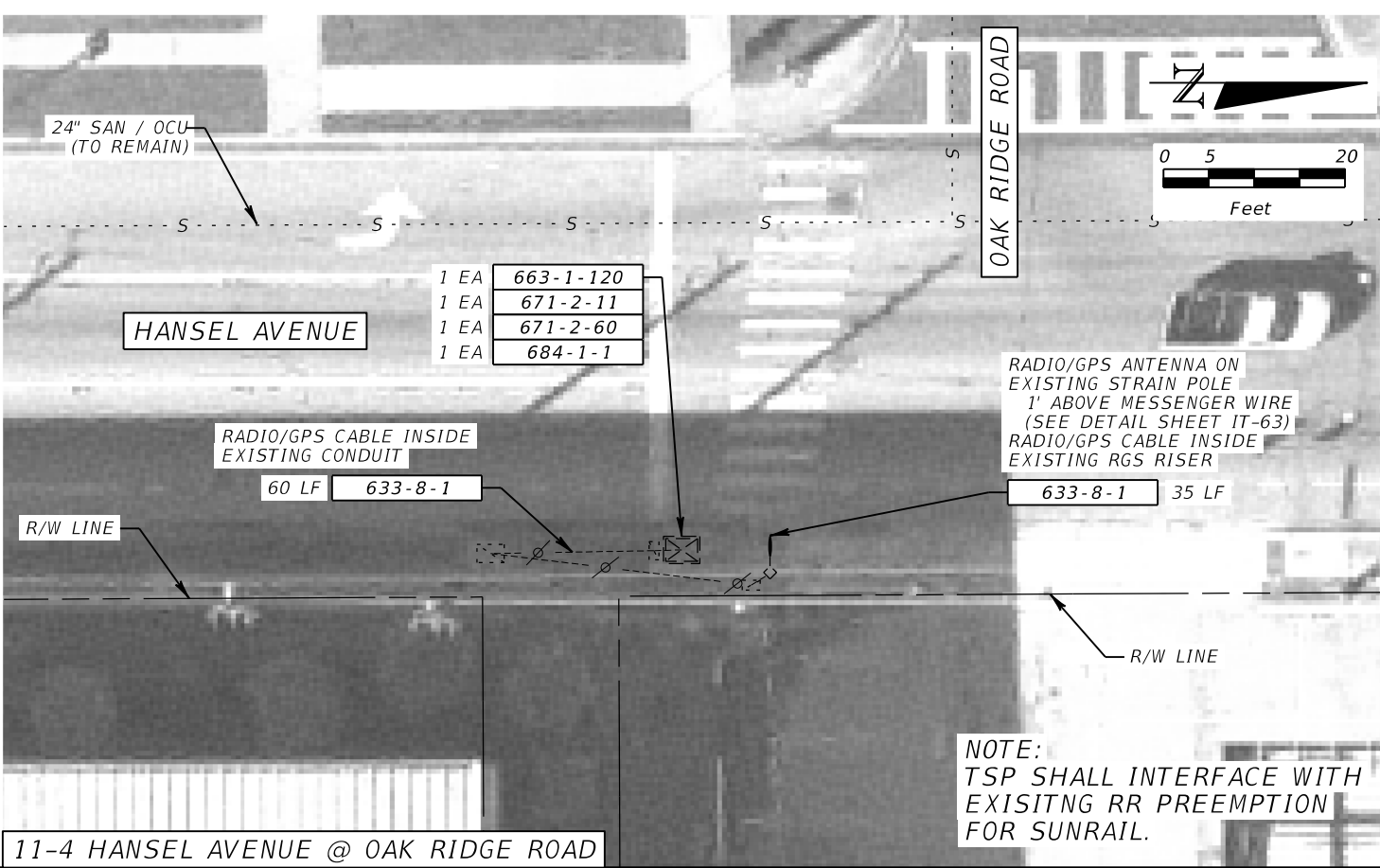
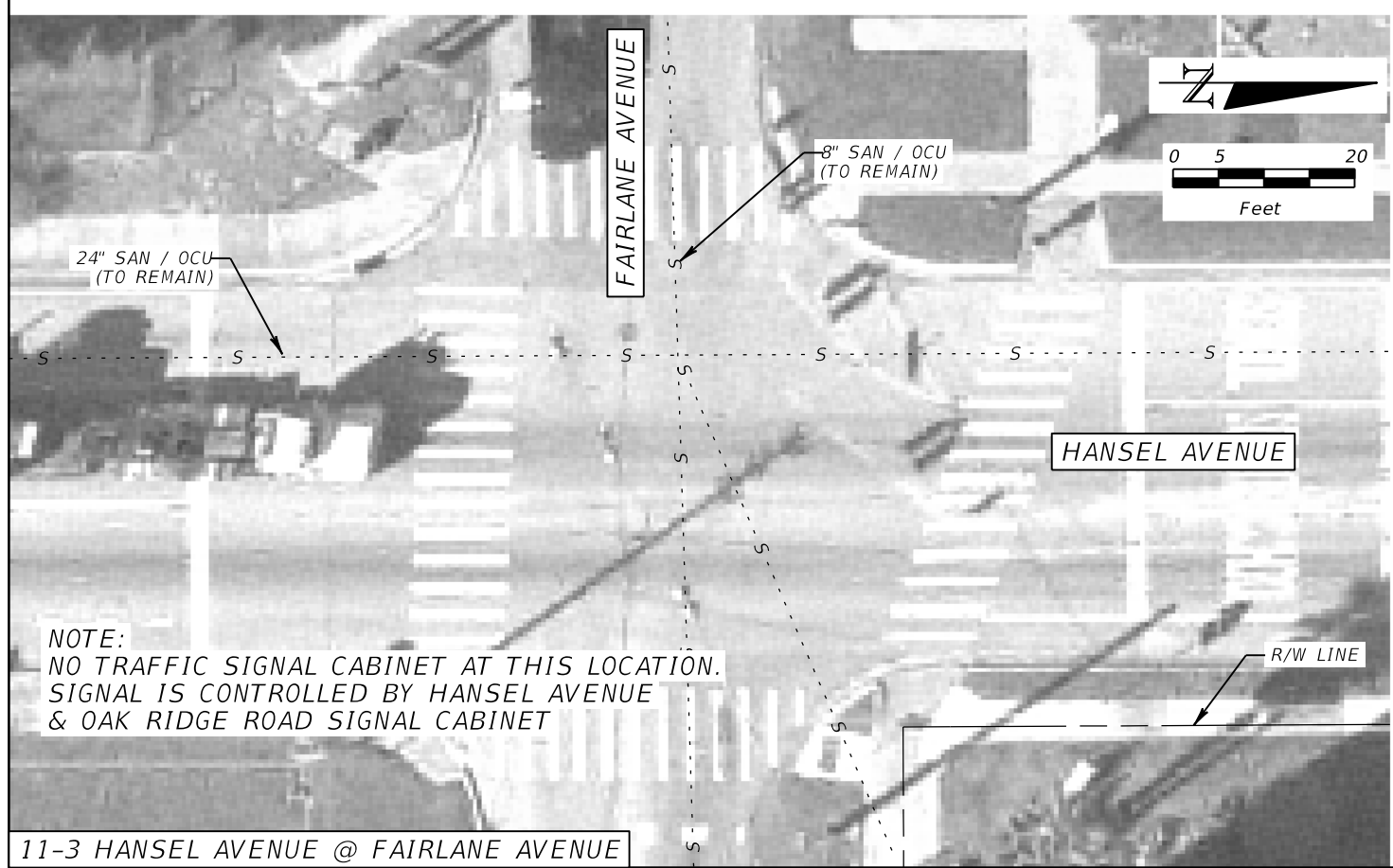
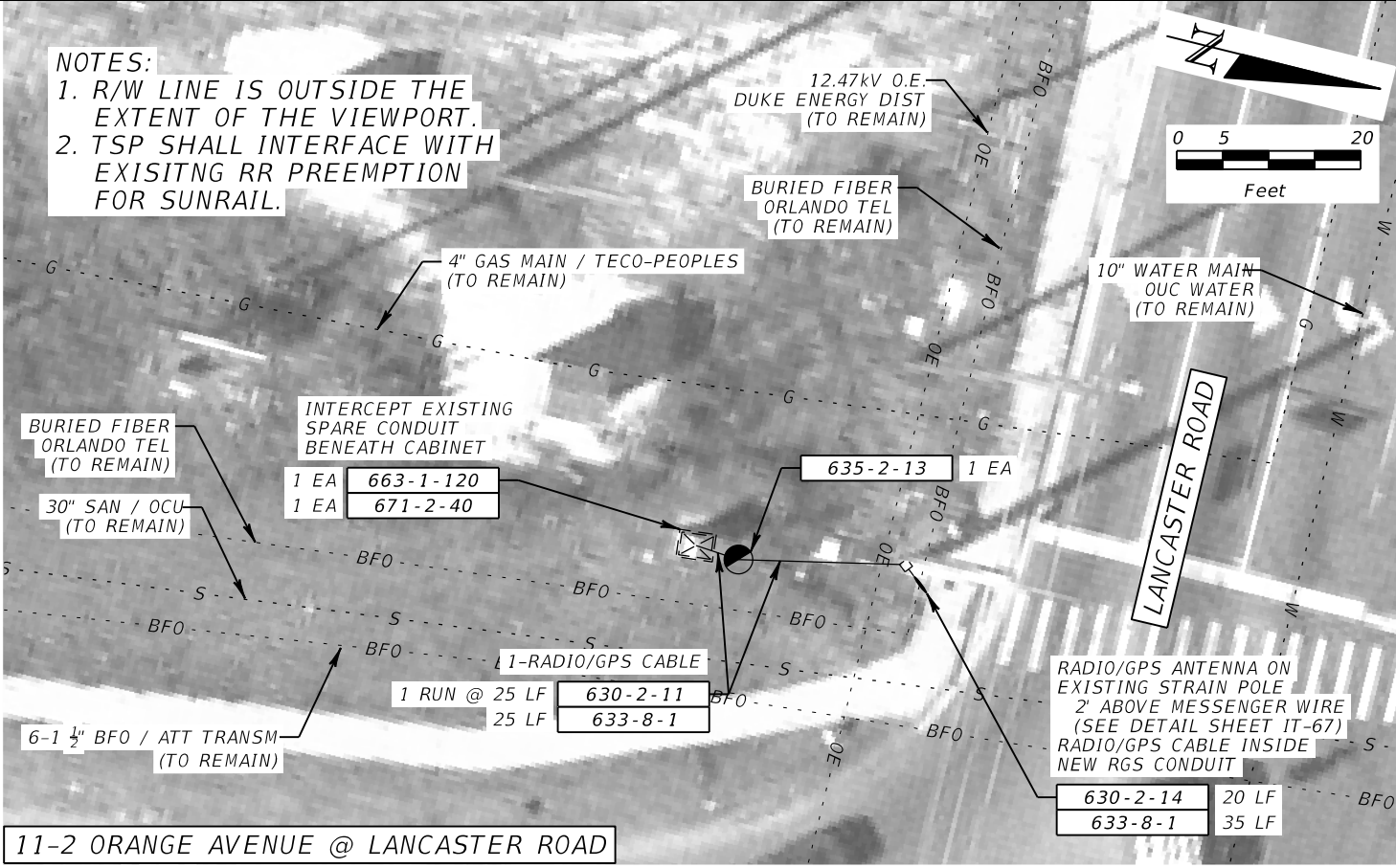
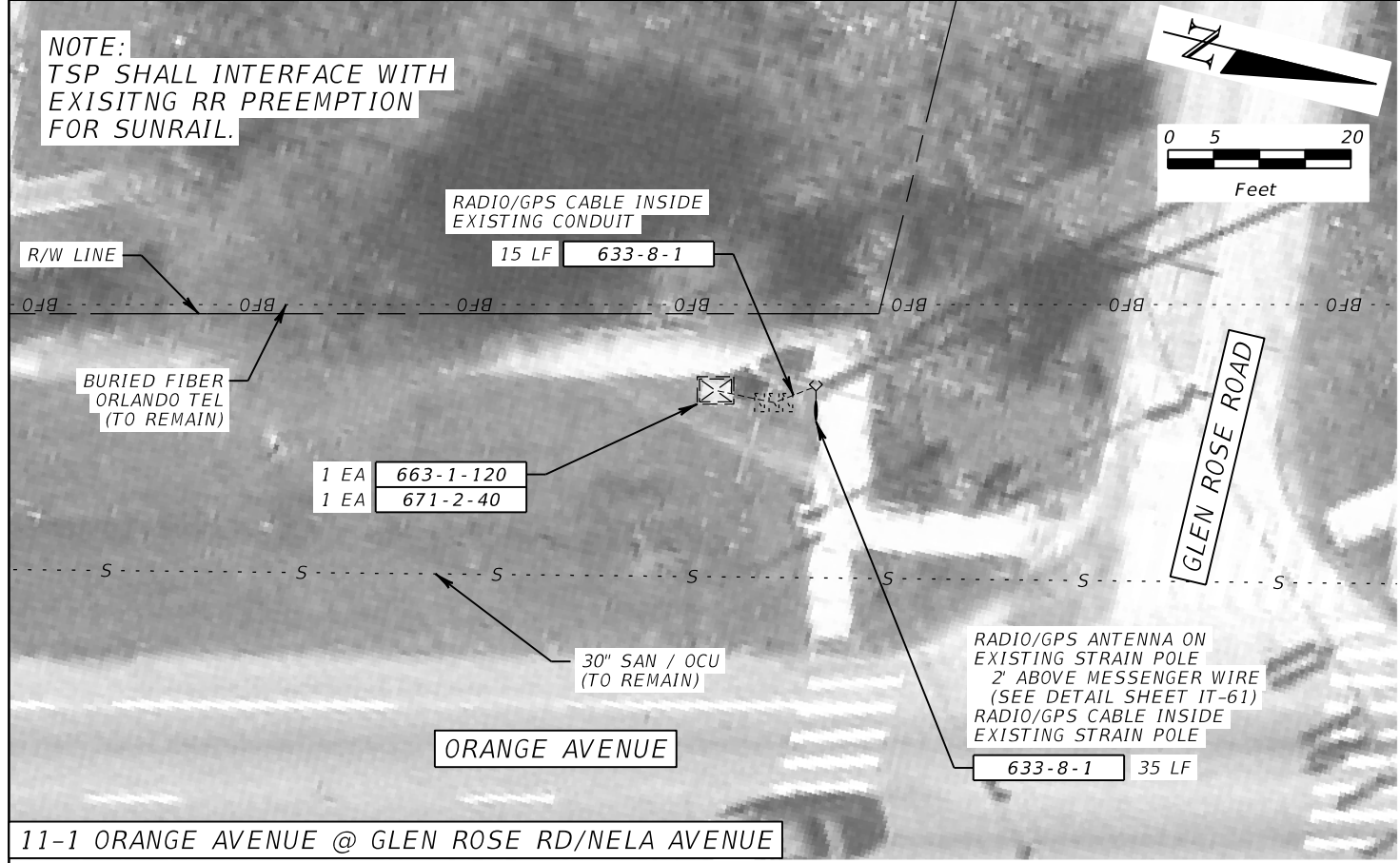
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| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | <i>PLAN SHEET</i> | SHEET NO. IT-17 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-------------------|------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

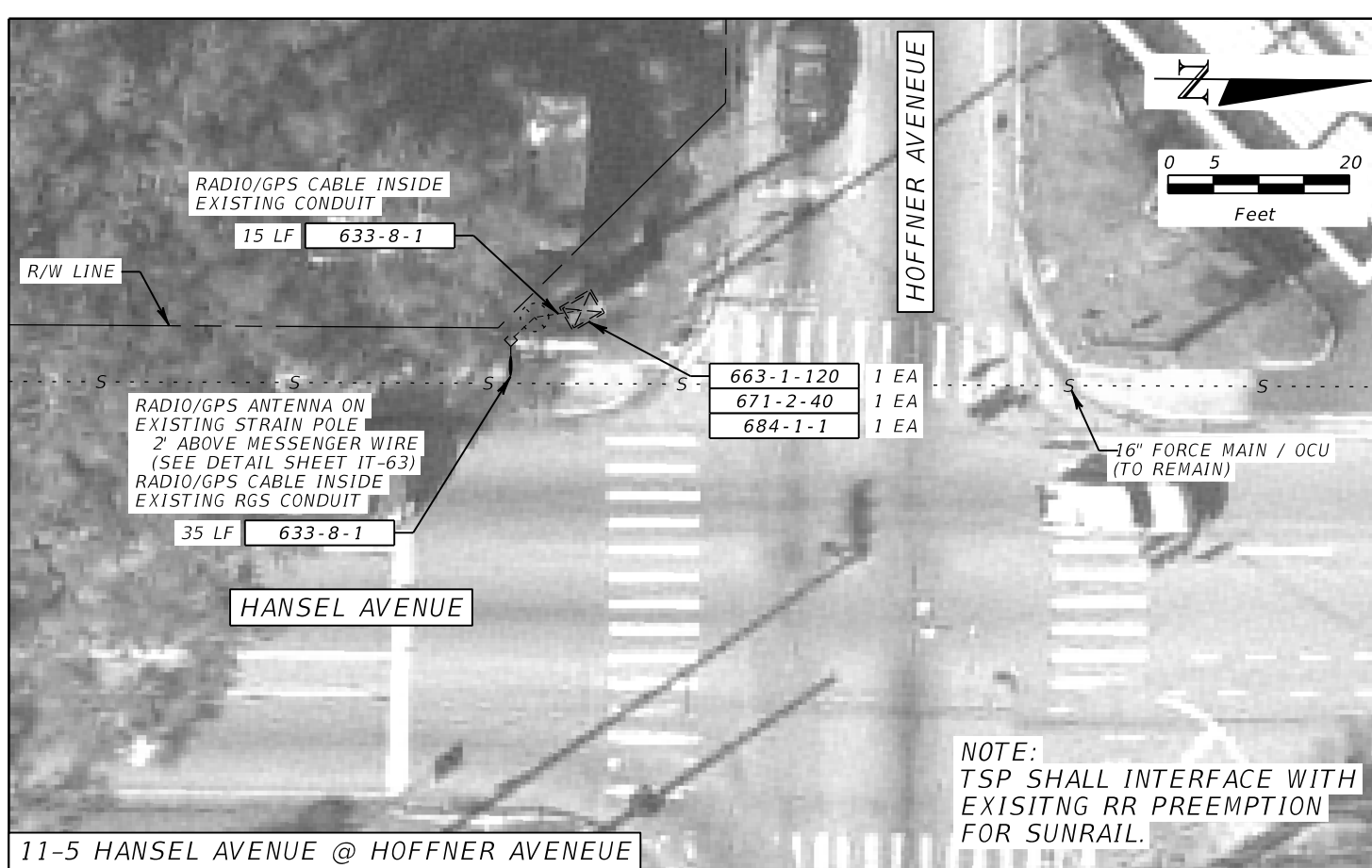


| REVISIONS | | REVISIONS | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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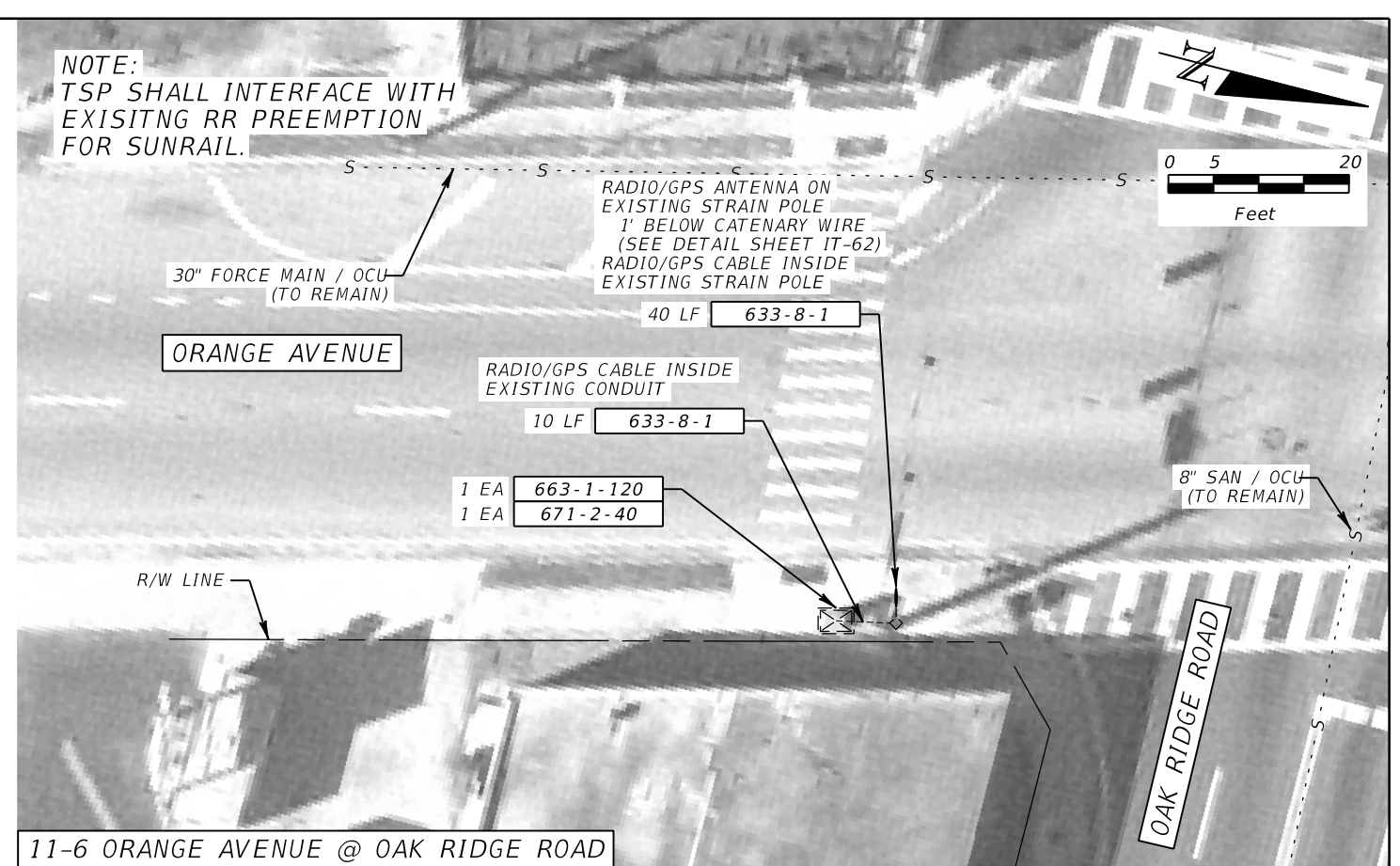
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| METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | SHEET NO. | | |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 | IT-18 | | |

PLAN SHEET

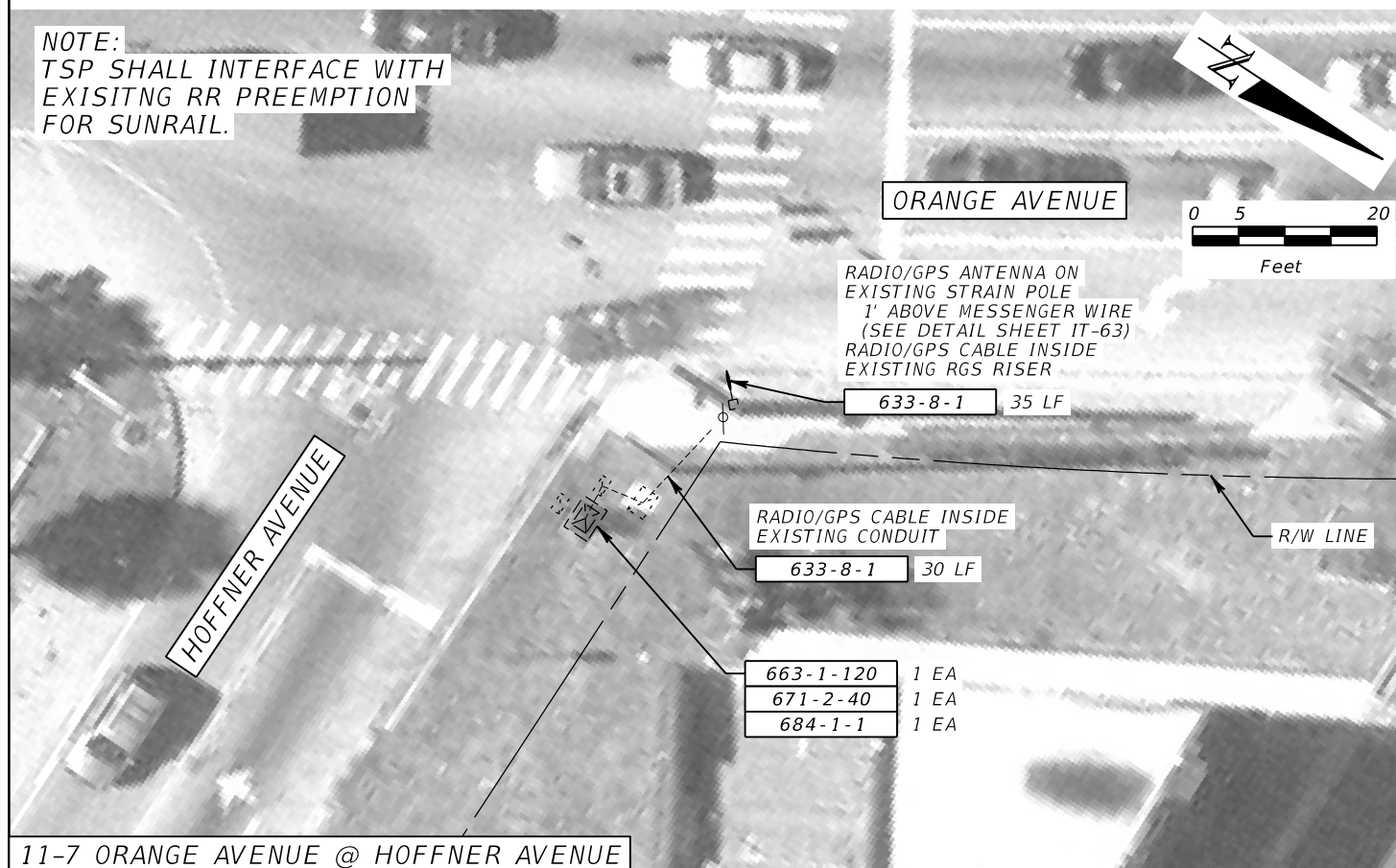
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



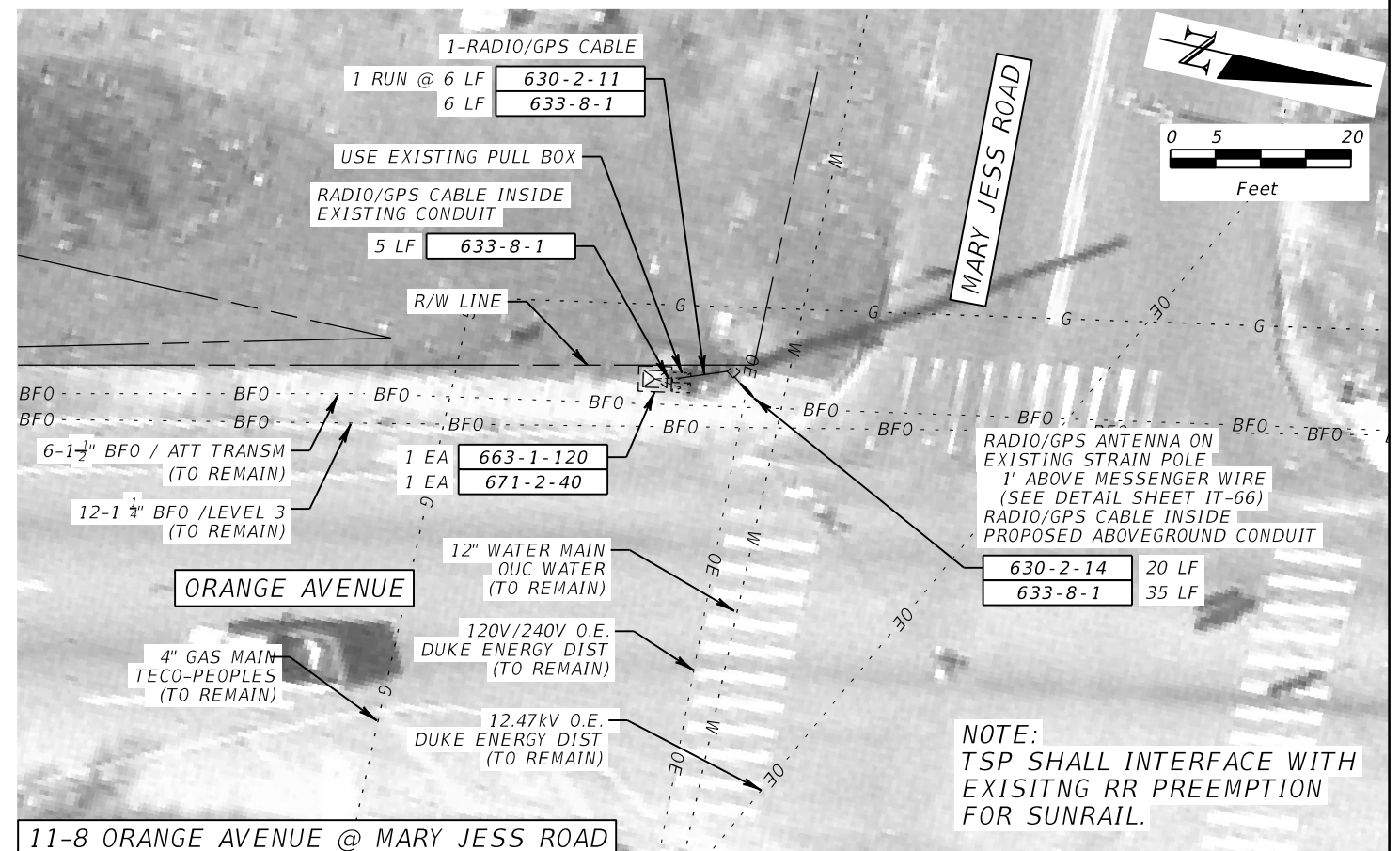
11-5 HANSEL AVENUE @ HOFFNER AVENUE



11-6 ORANGE AVENUE @ OAK RIDGE ROAD



11-7 ORANGE AVENUE @ HOFFNER AVENUE



11-8 ORANGE AVENUE @ MARY JESS ROAD

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

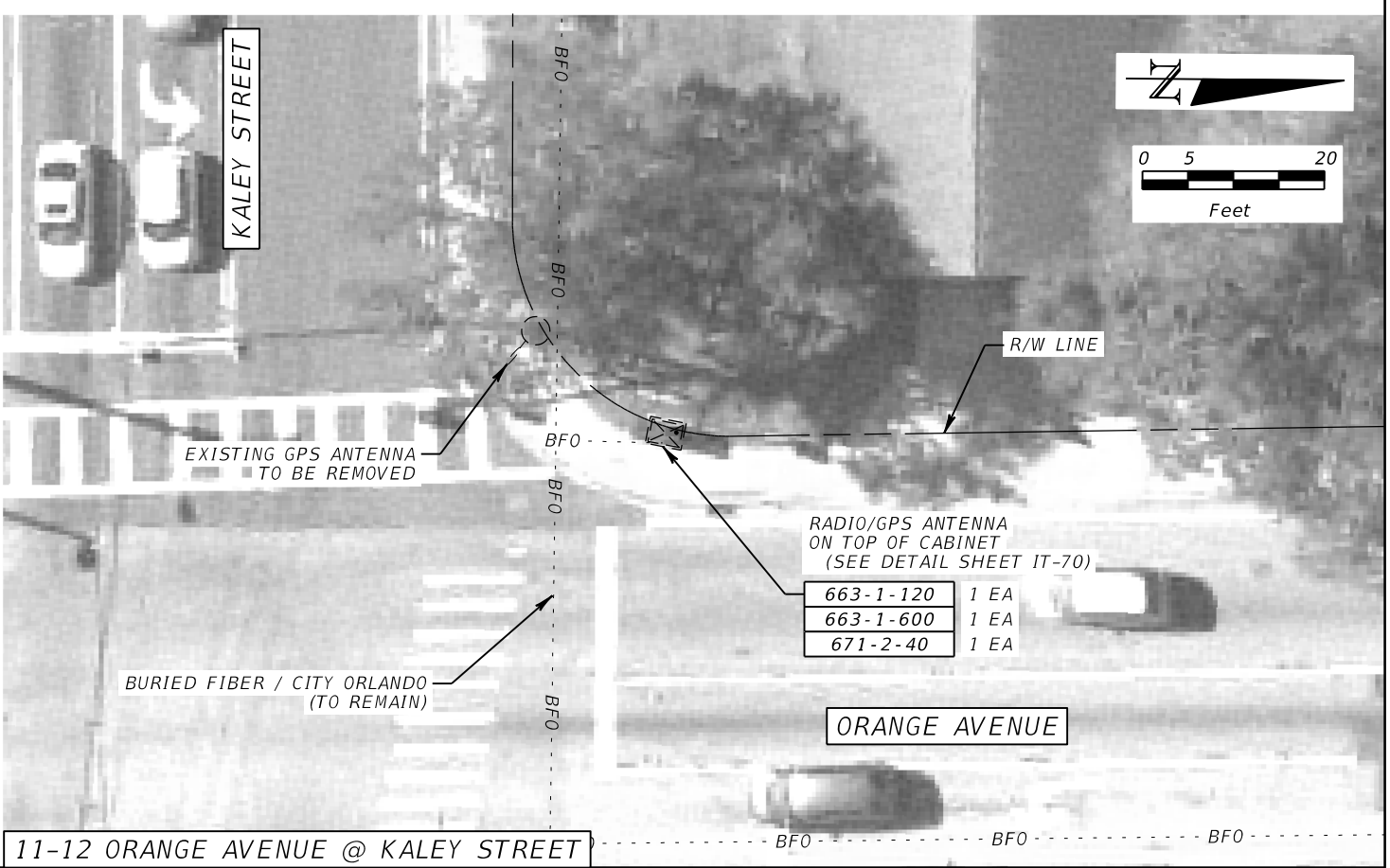
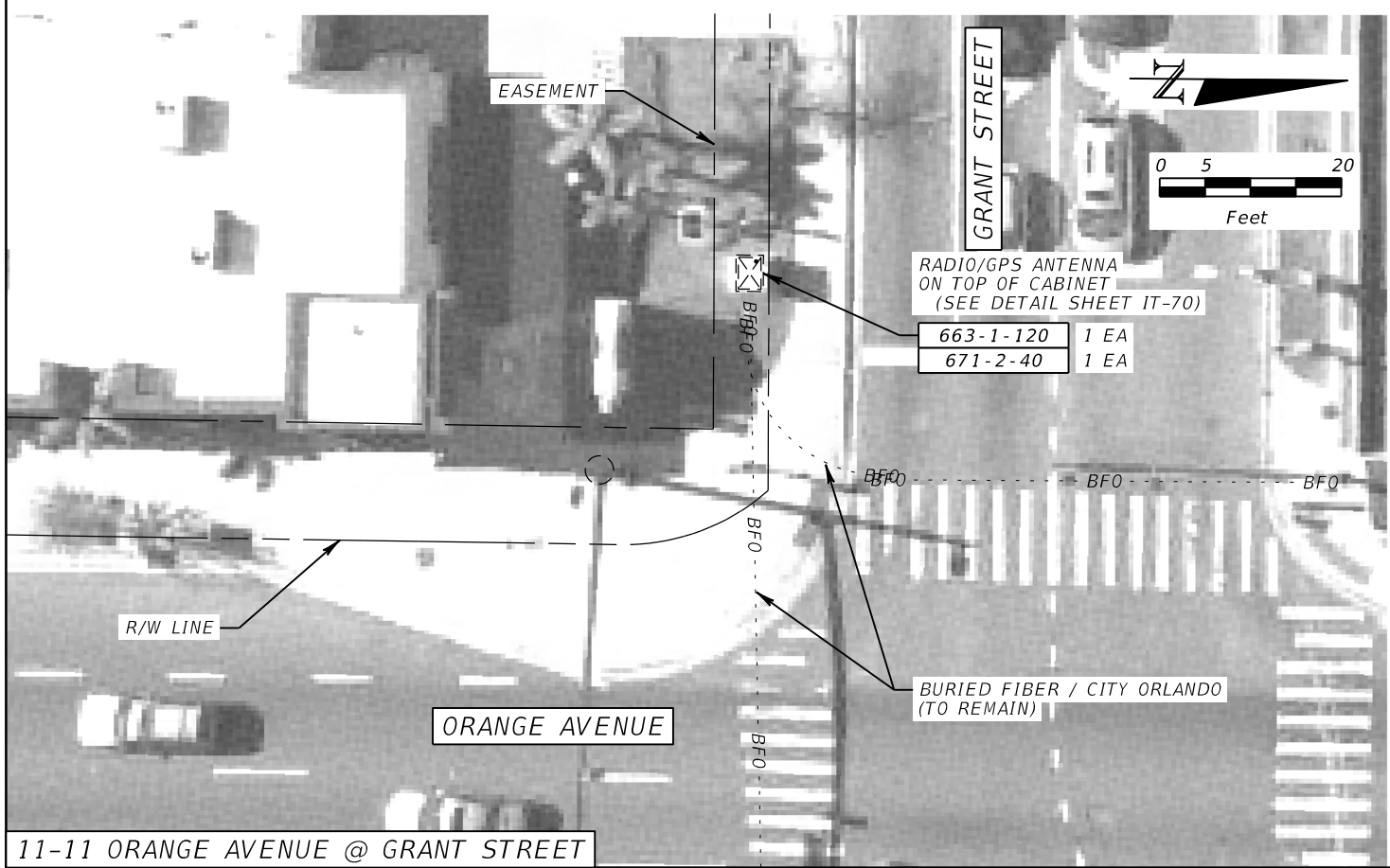
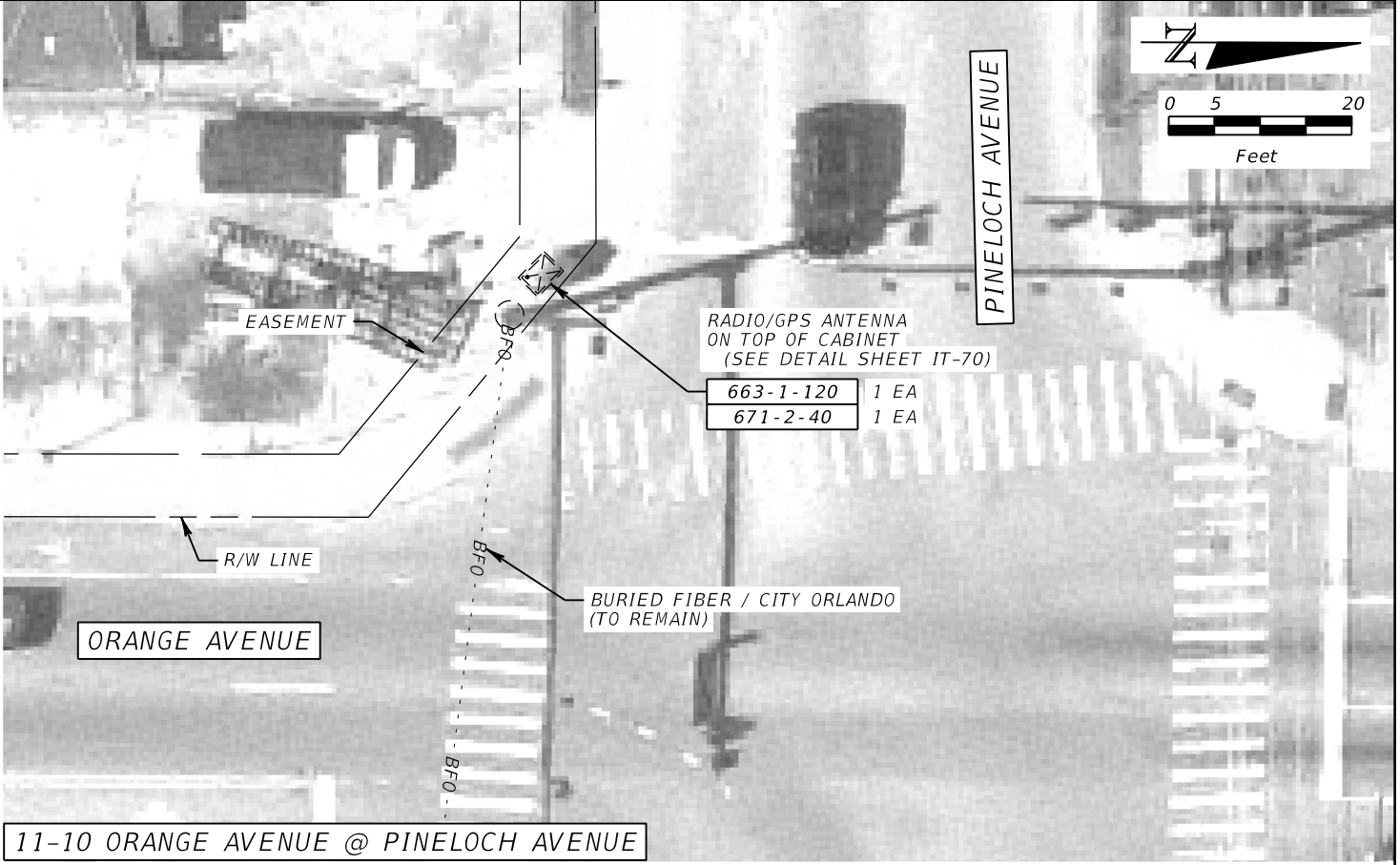
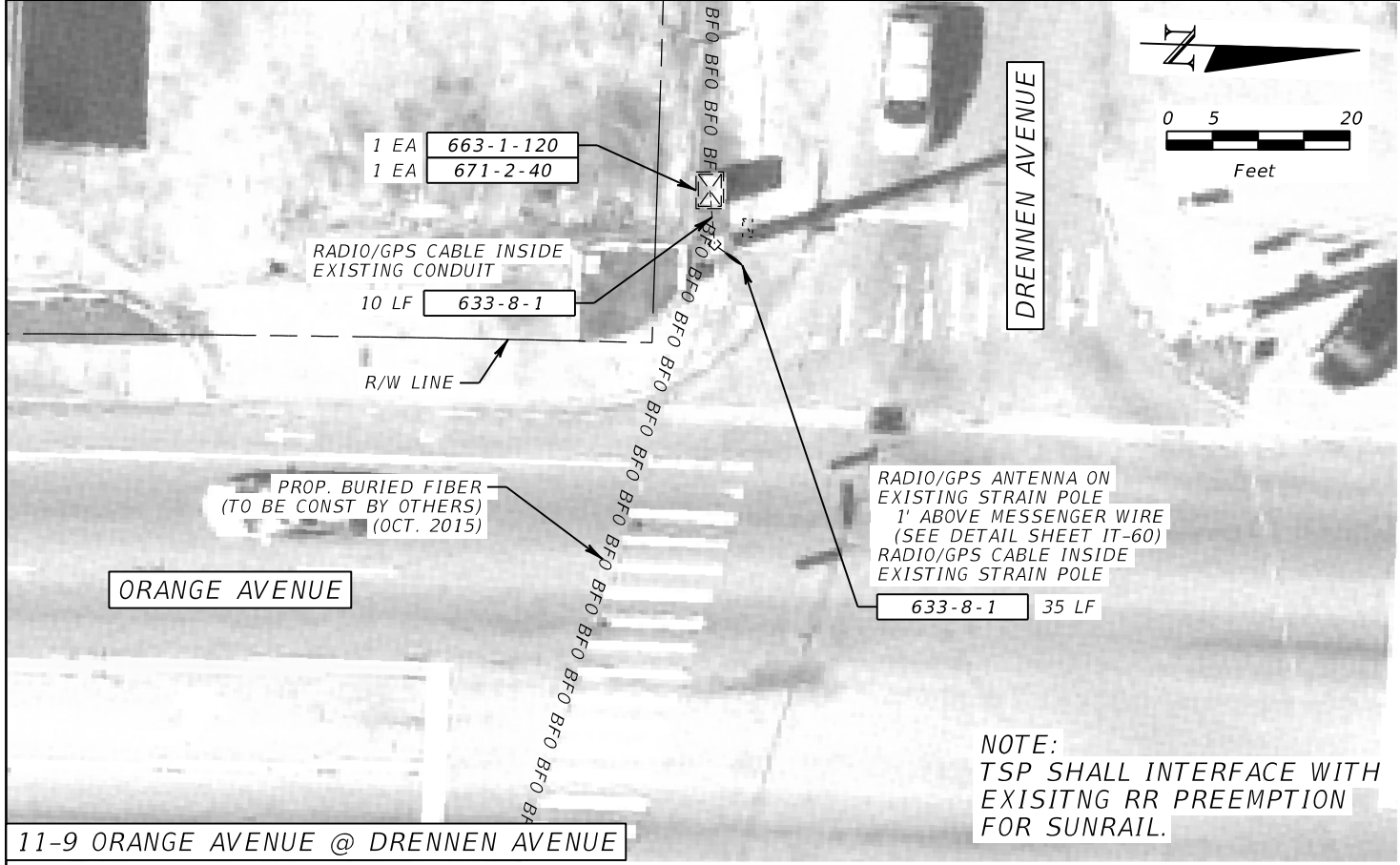
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|-----------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-19

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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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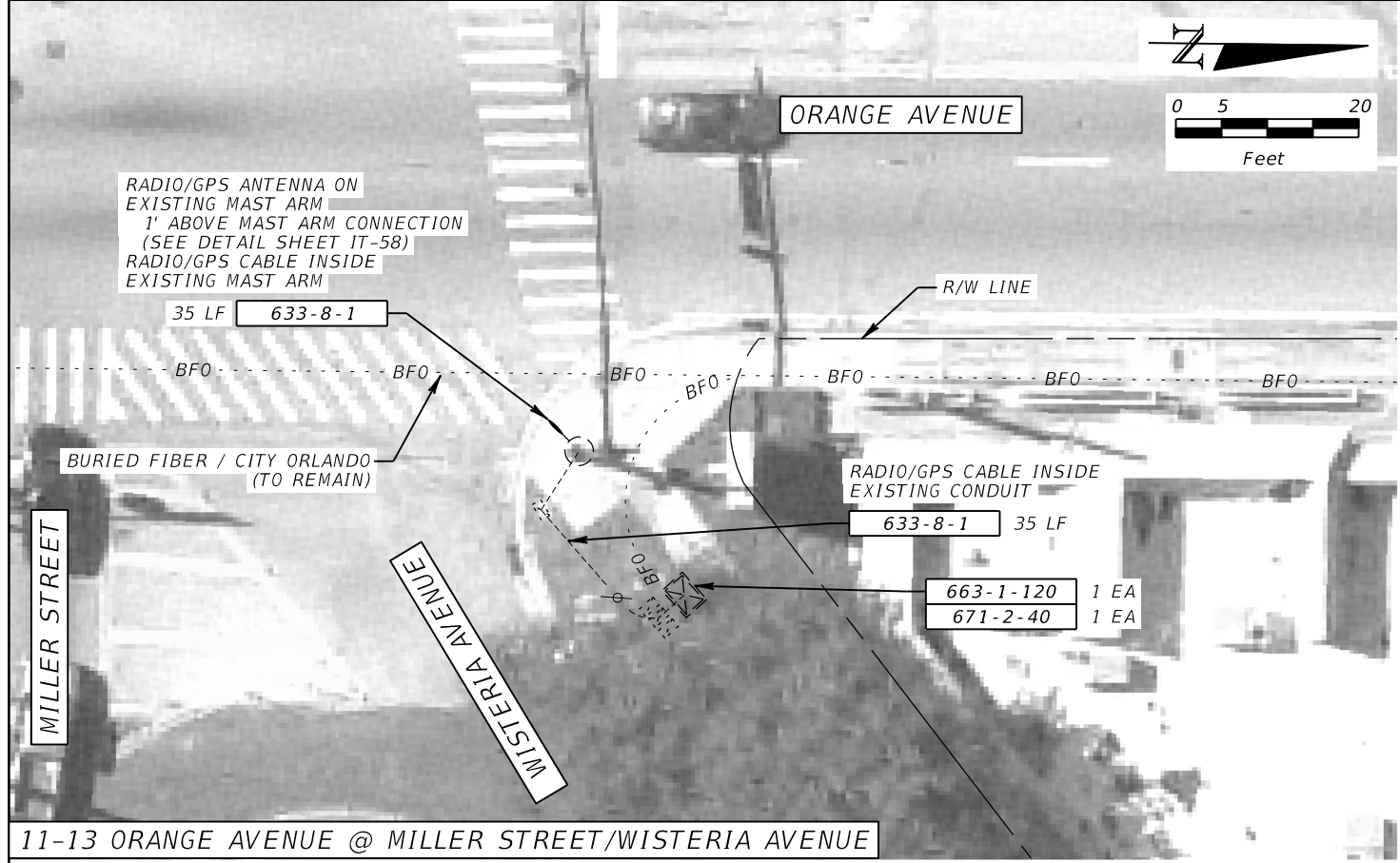
METRIC ENGINEERING, INC.
JULIO A. ALEGRE, P.E. # 66265
615 CRESCENT EXECUTIVE CT
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|-----------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

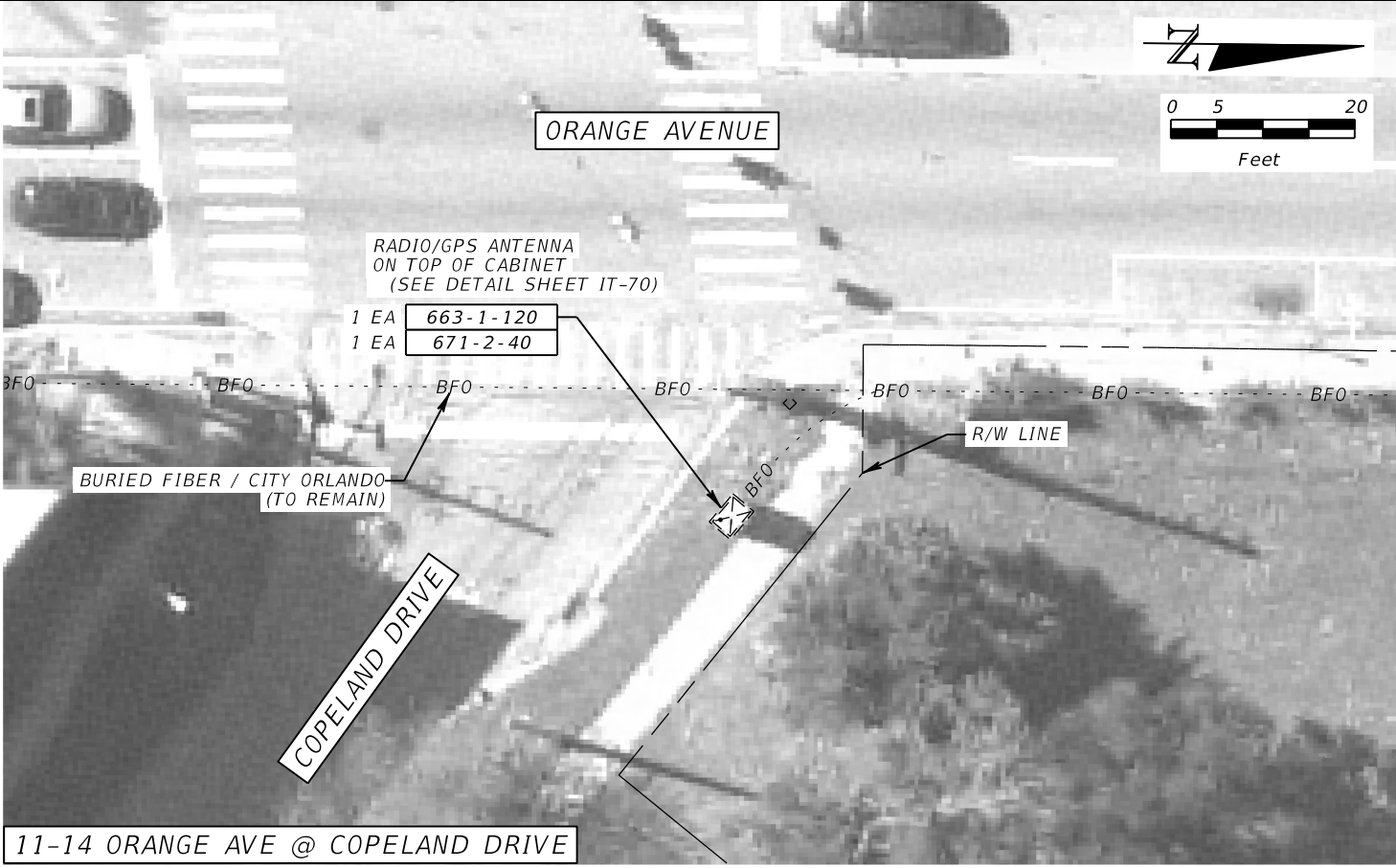
PLAN SHEET

SHEET NO.
IT-20

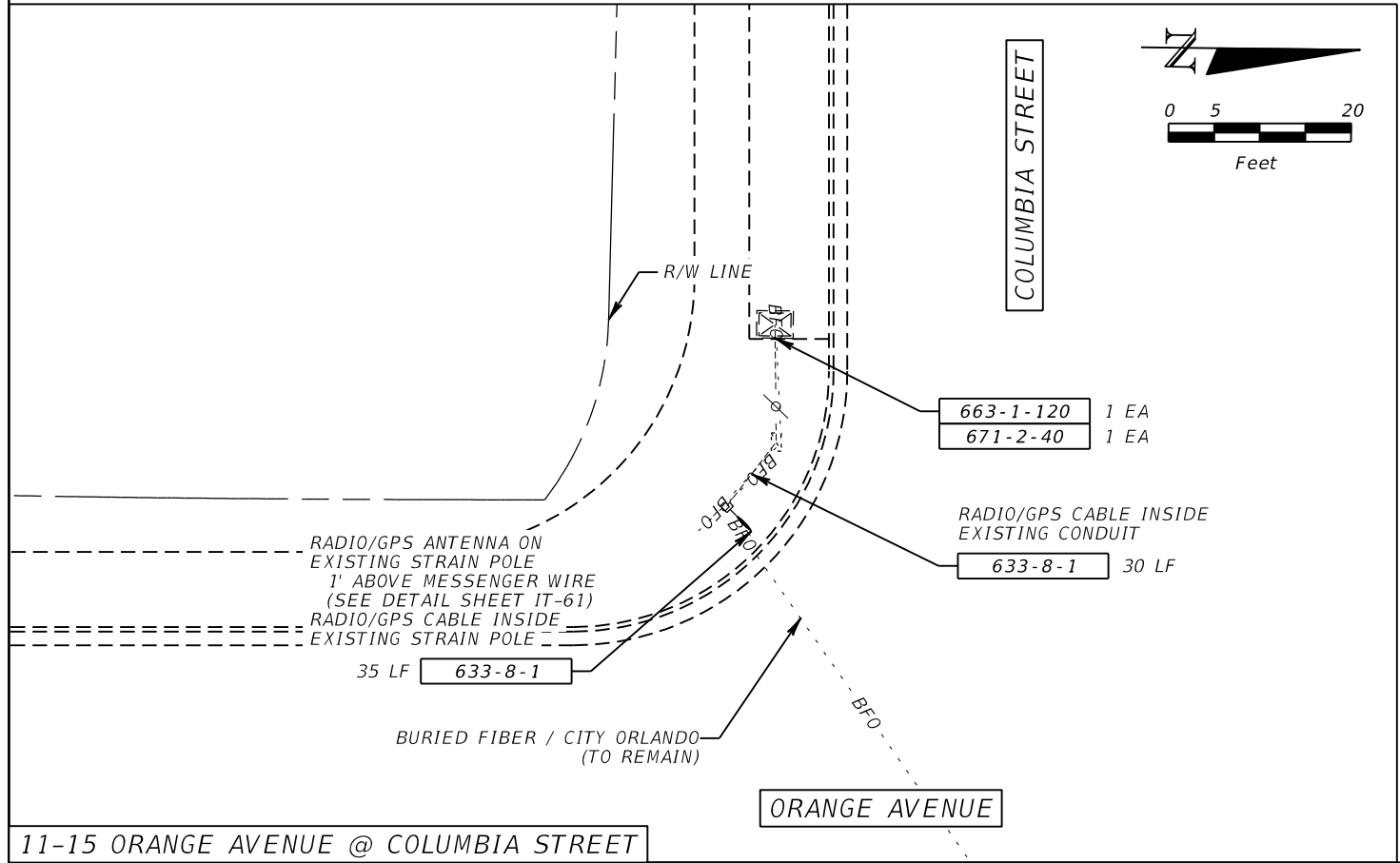
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



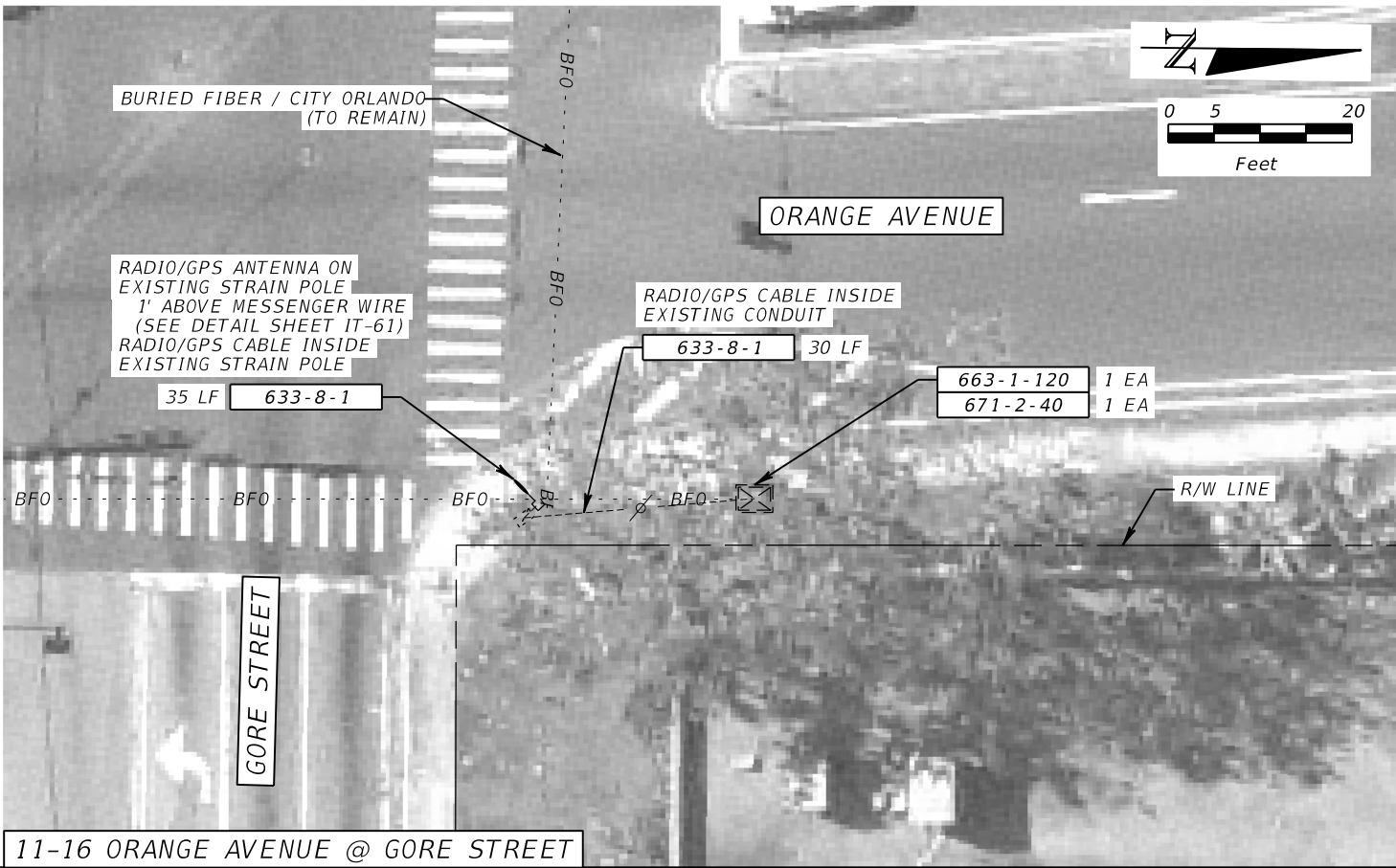
11-13 ORANGE AVENUE @ MILLER STREET/WISTERIA AVENUE



11-14 ORANGE AVE @ COPELAND DRIVE



11-15 ORANGE AVENUE @ COLUMBIA STREET



11-16 ORANGE AVENUE @ GORE STREET

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
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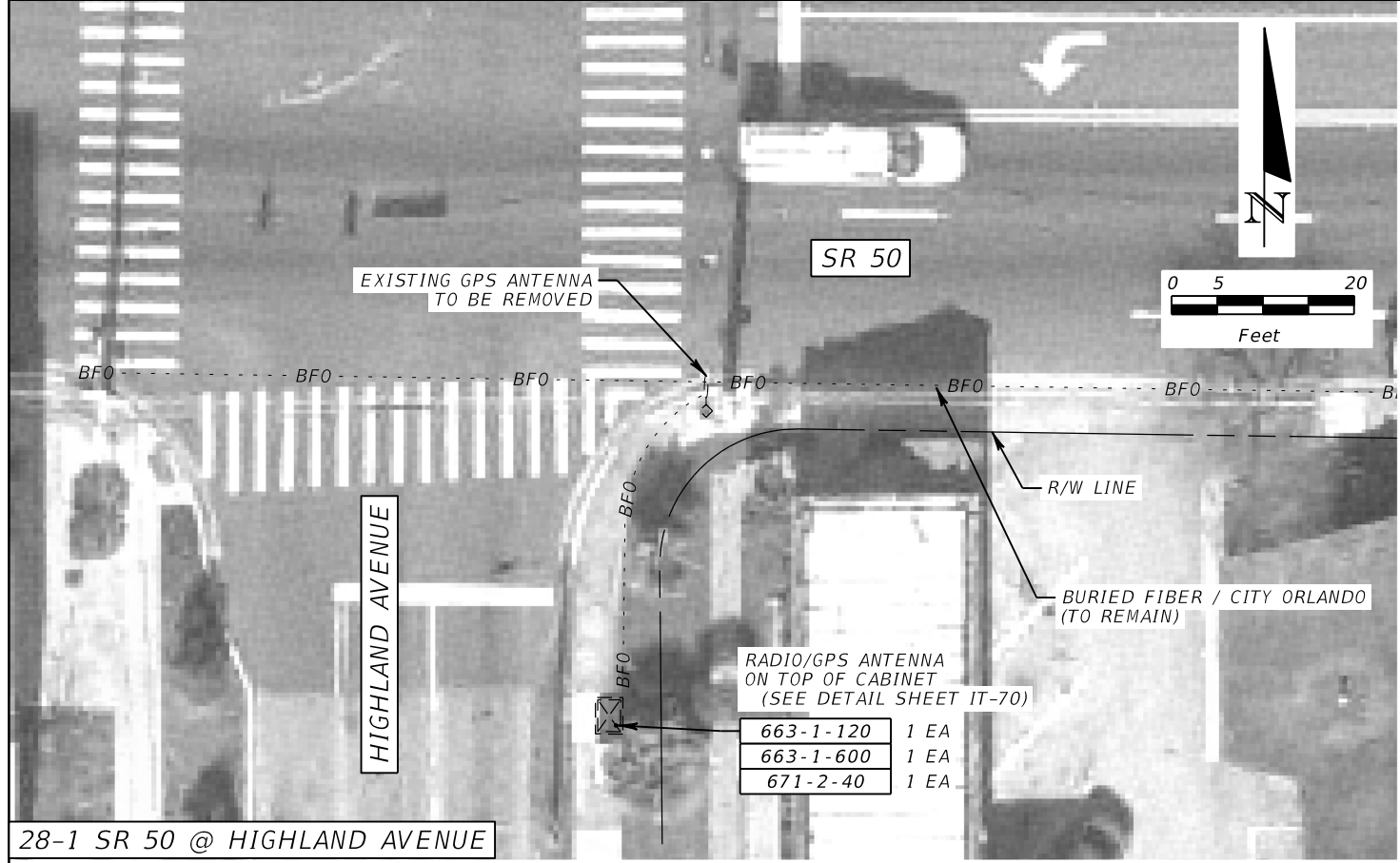
METRIC ENGINEERING, INC.
JULIO A. ALEGRE, P.E. # 66265
615 CRESCENT EXECUTIVE CT
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|-----------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

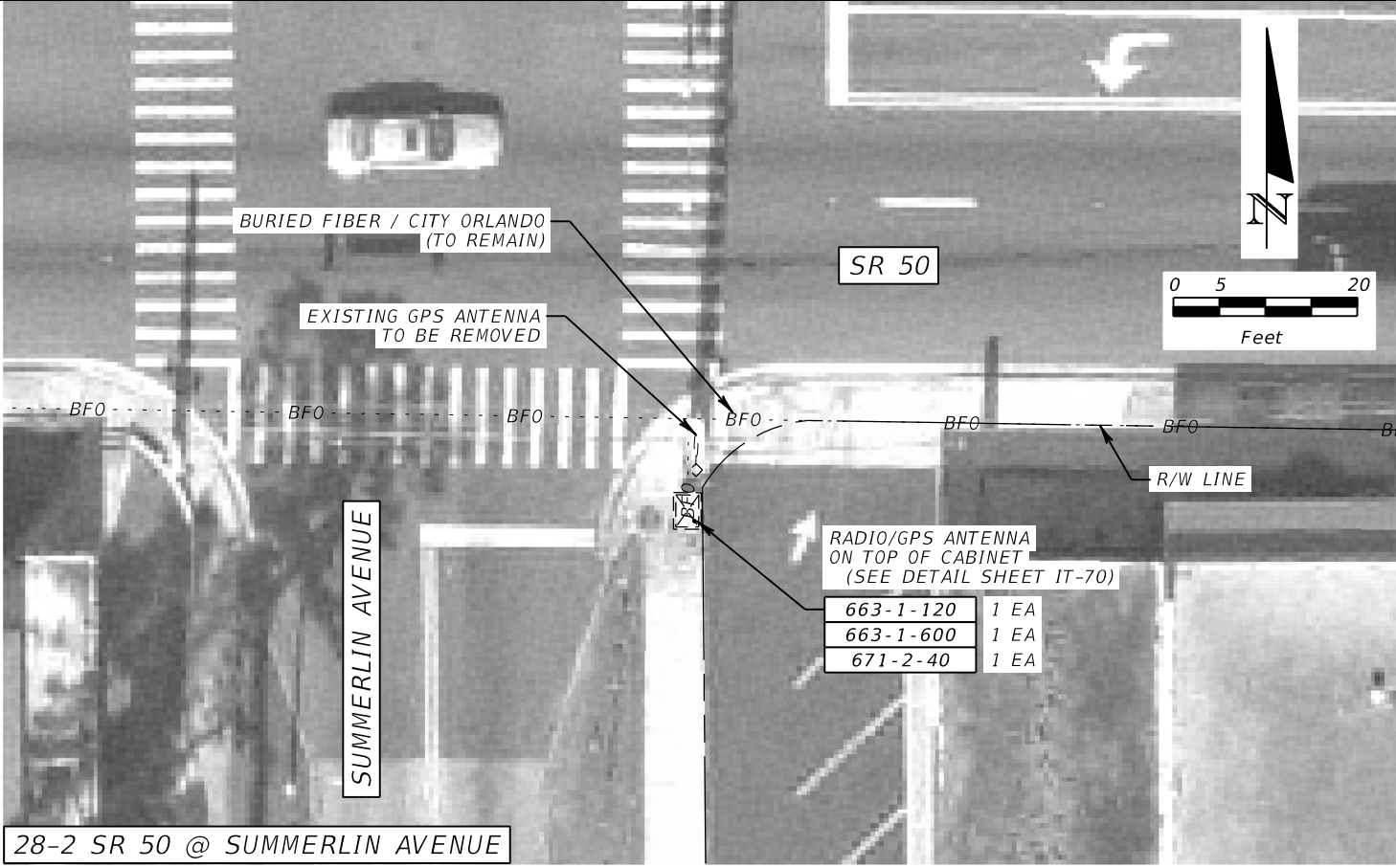
PLAN SHEET

SHEET NO.
IT-21

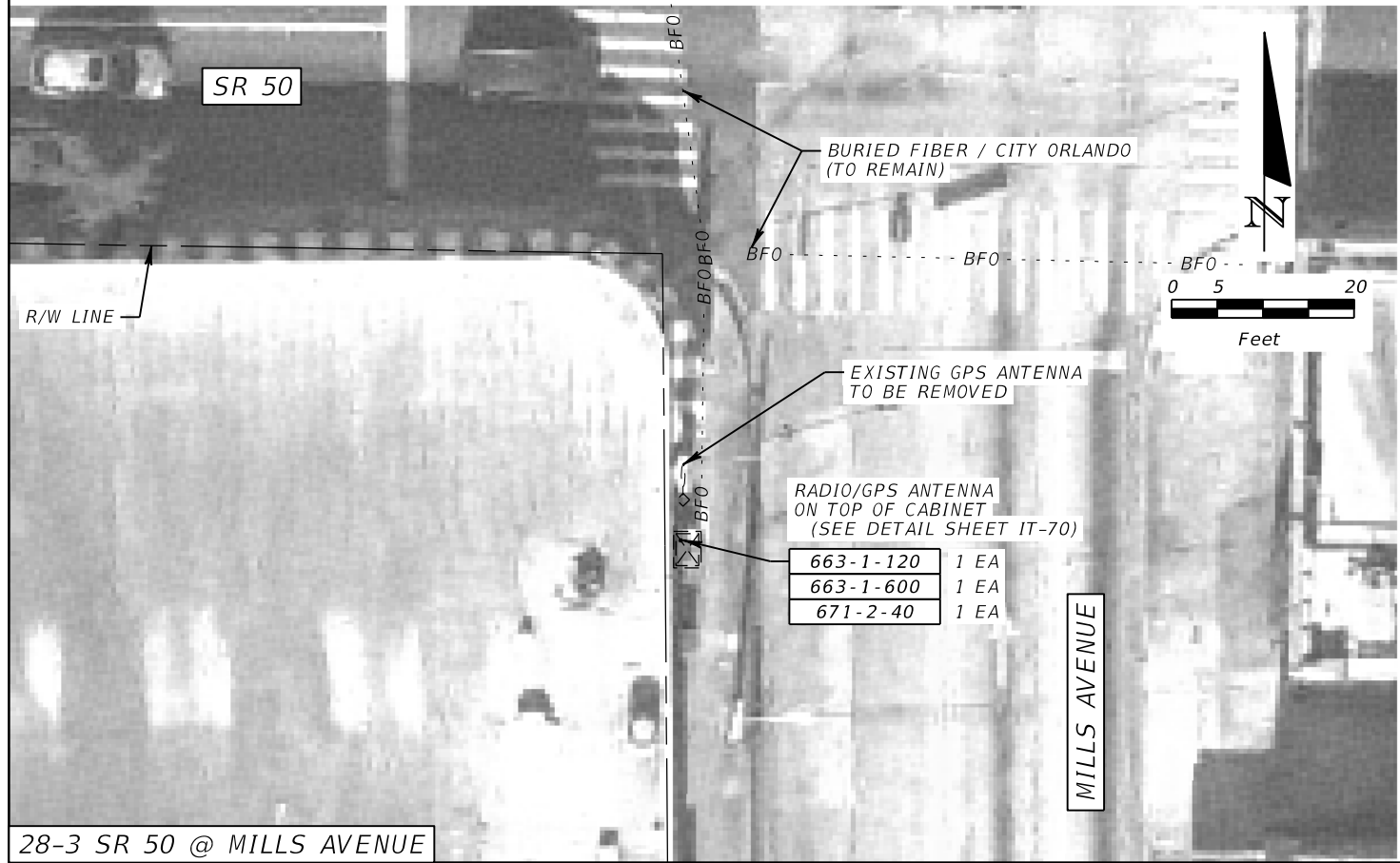
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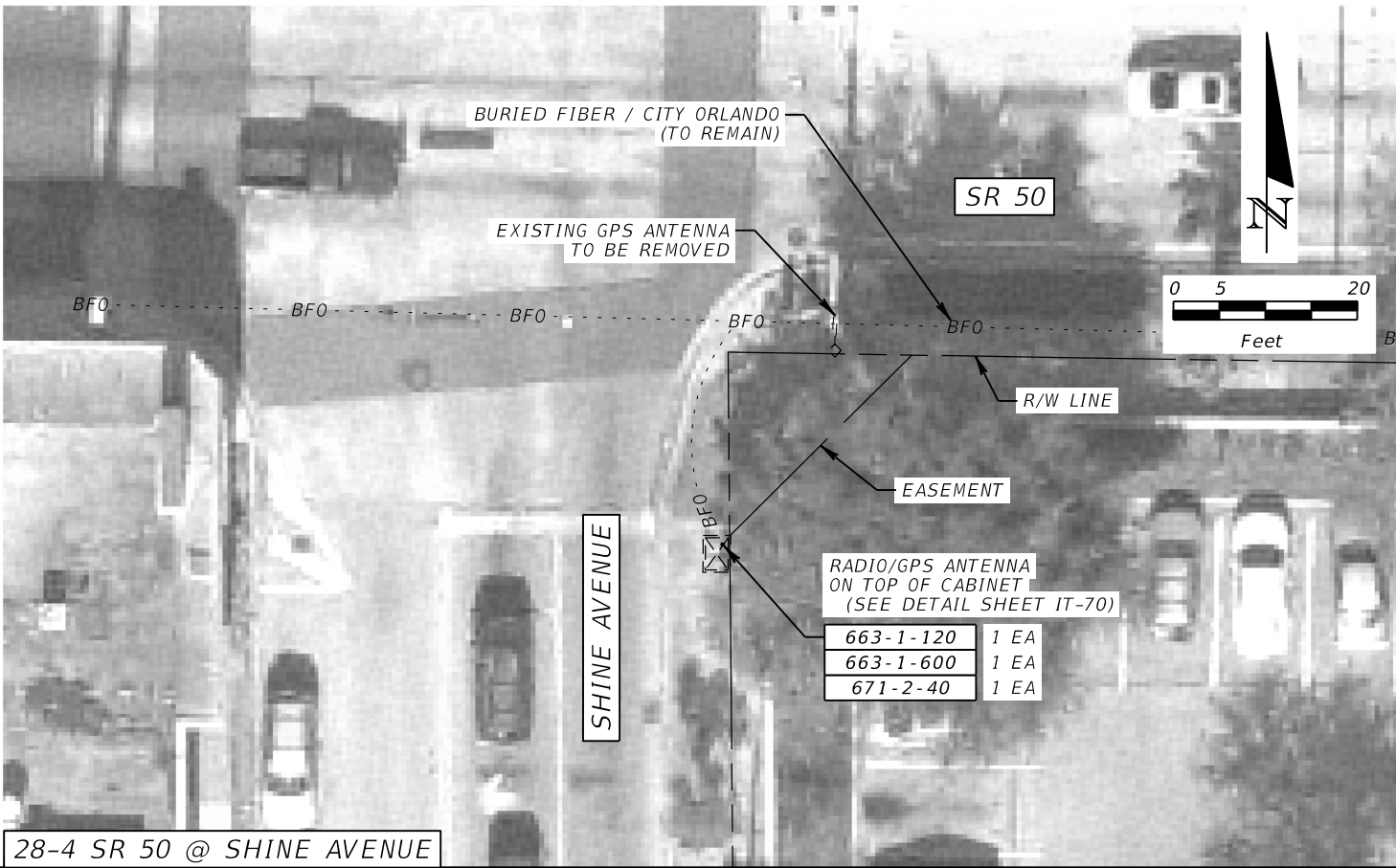
28-1 SR 50 @ HIGHLAND AVENUE



28-2 SR 50 @ SUMMERLIN AVENUE



28-3 SR 50 @ MILLS AVENUE



28-4 SR 50 @ SHINE AVENUE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

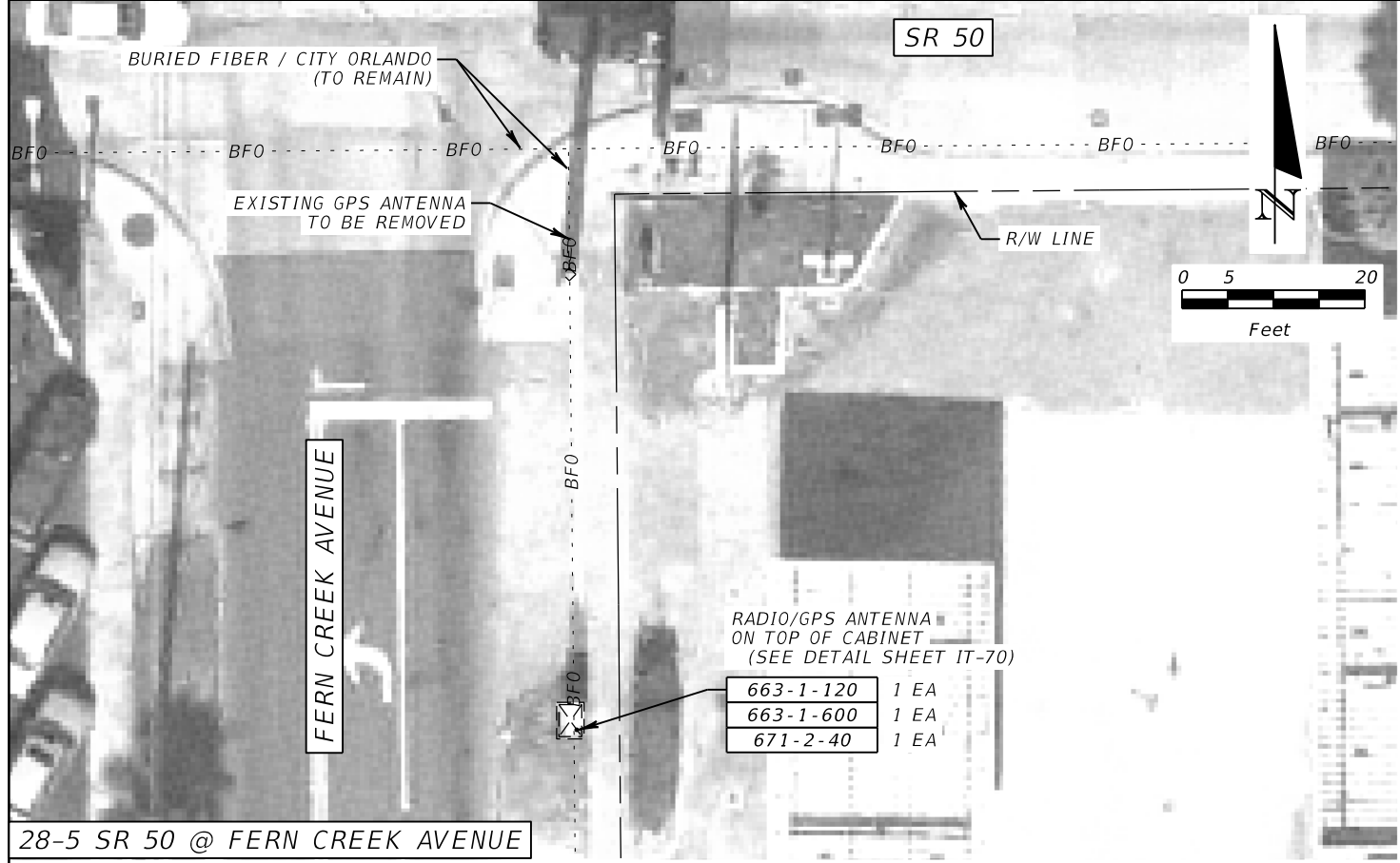
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

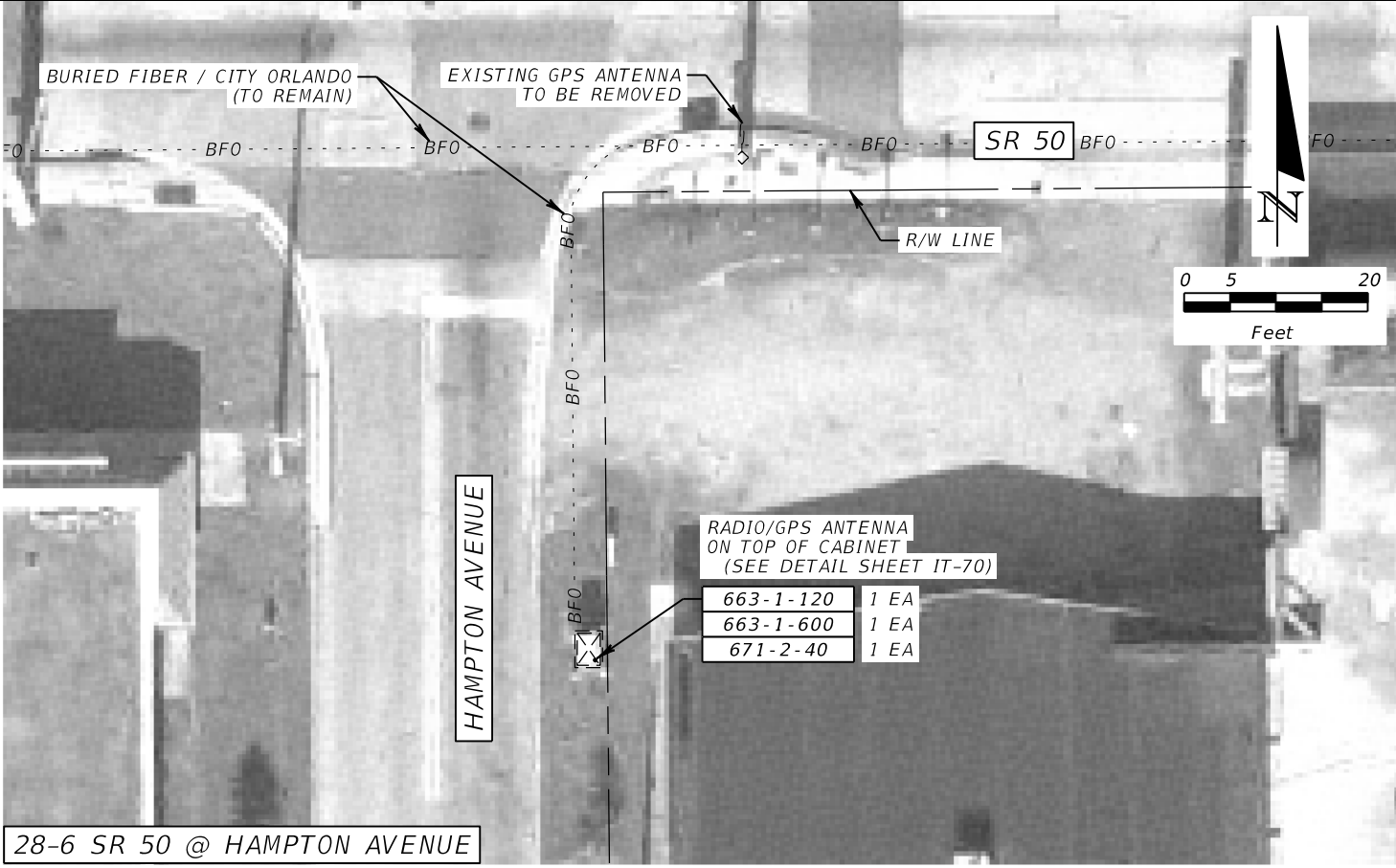
PLAN SHEET

SHEET NO.
IT-22

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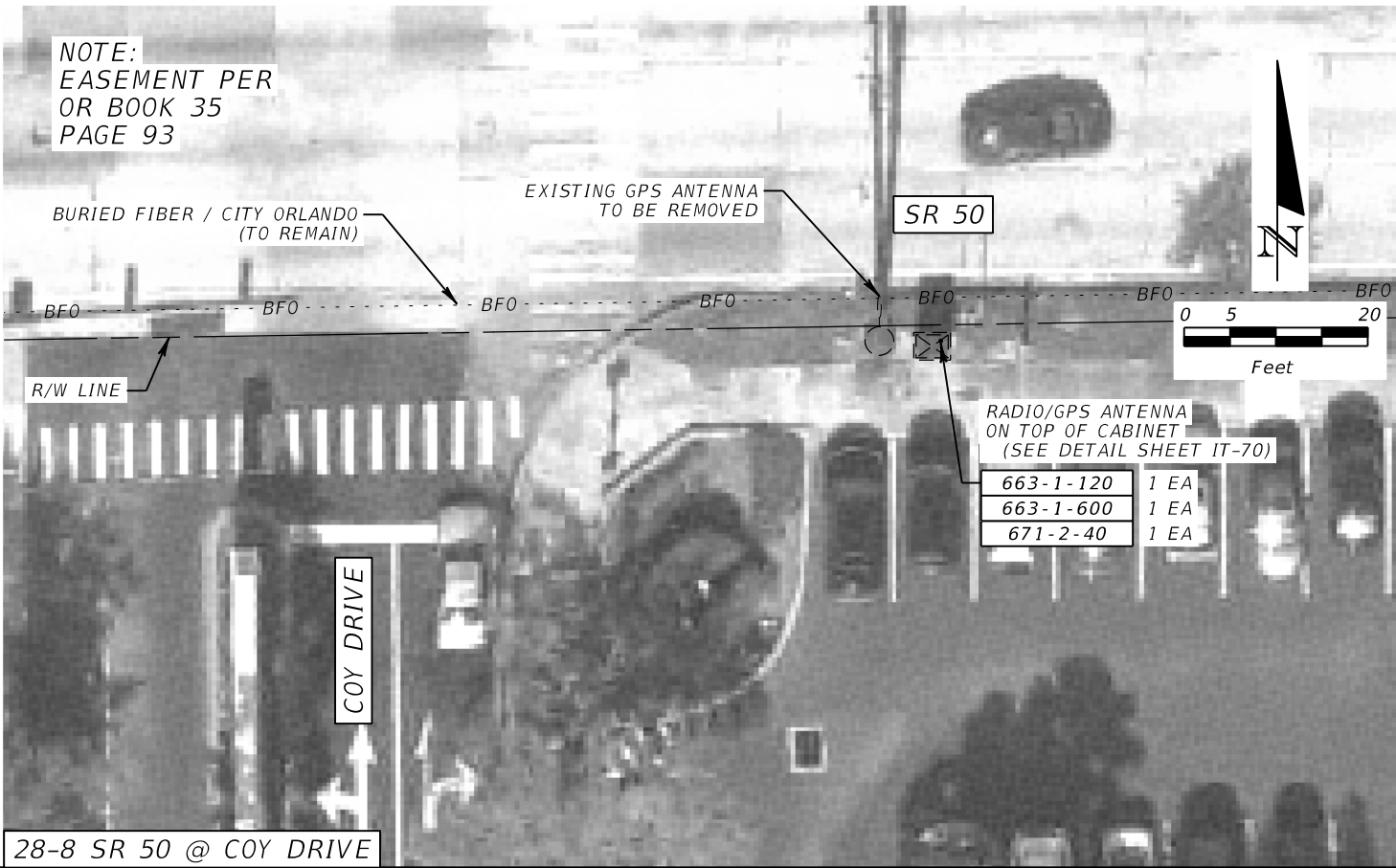
28-5 SR 50 @ FERN CREEK AVENUE



28-6 SR 50 @ HAMPTON AVENUE



28-7 SR 50 @ BUMBY AVENUE



28-8 SR 50 @ COY DRIVE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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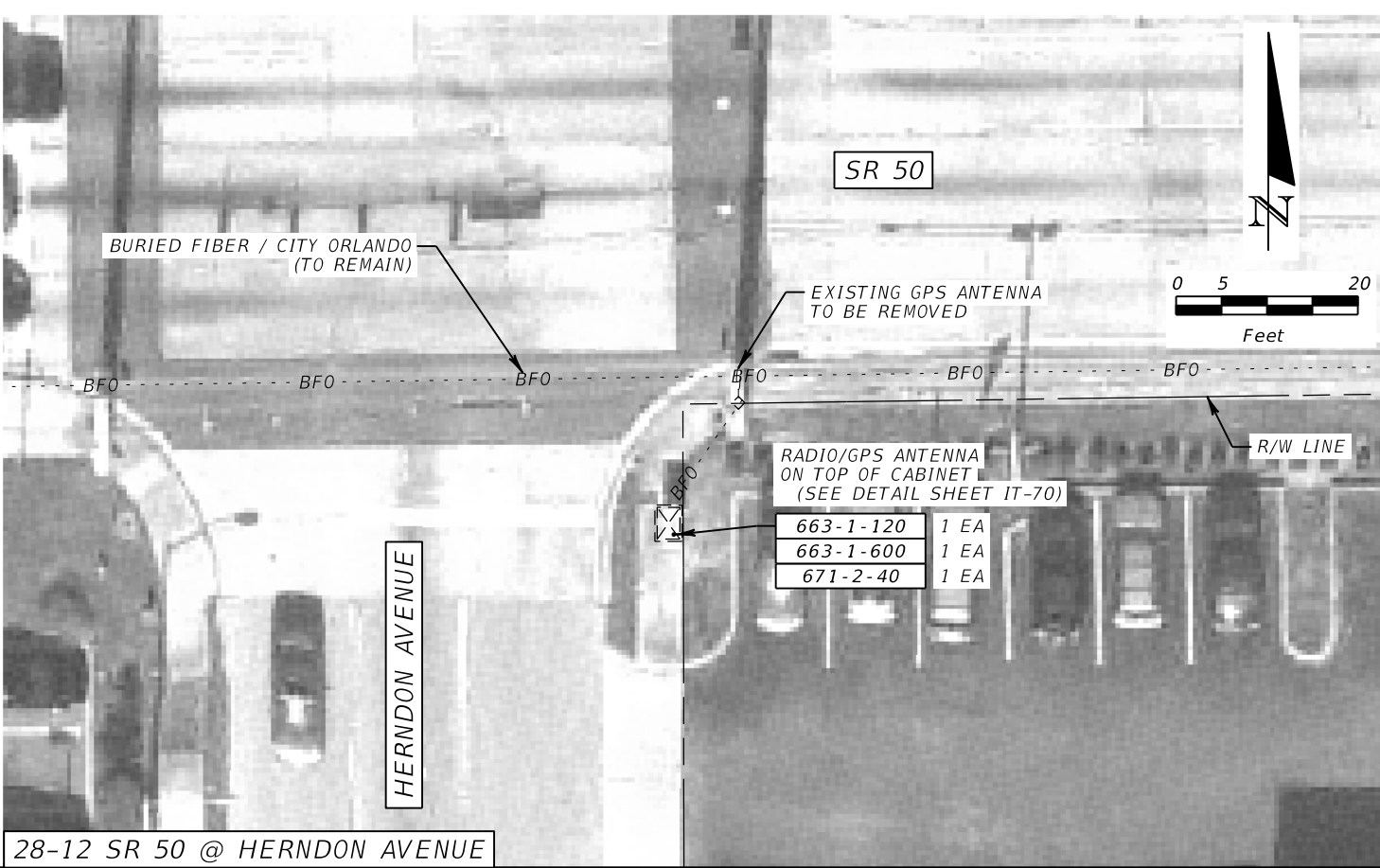
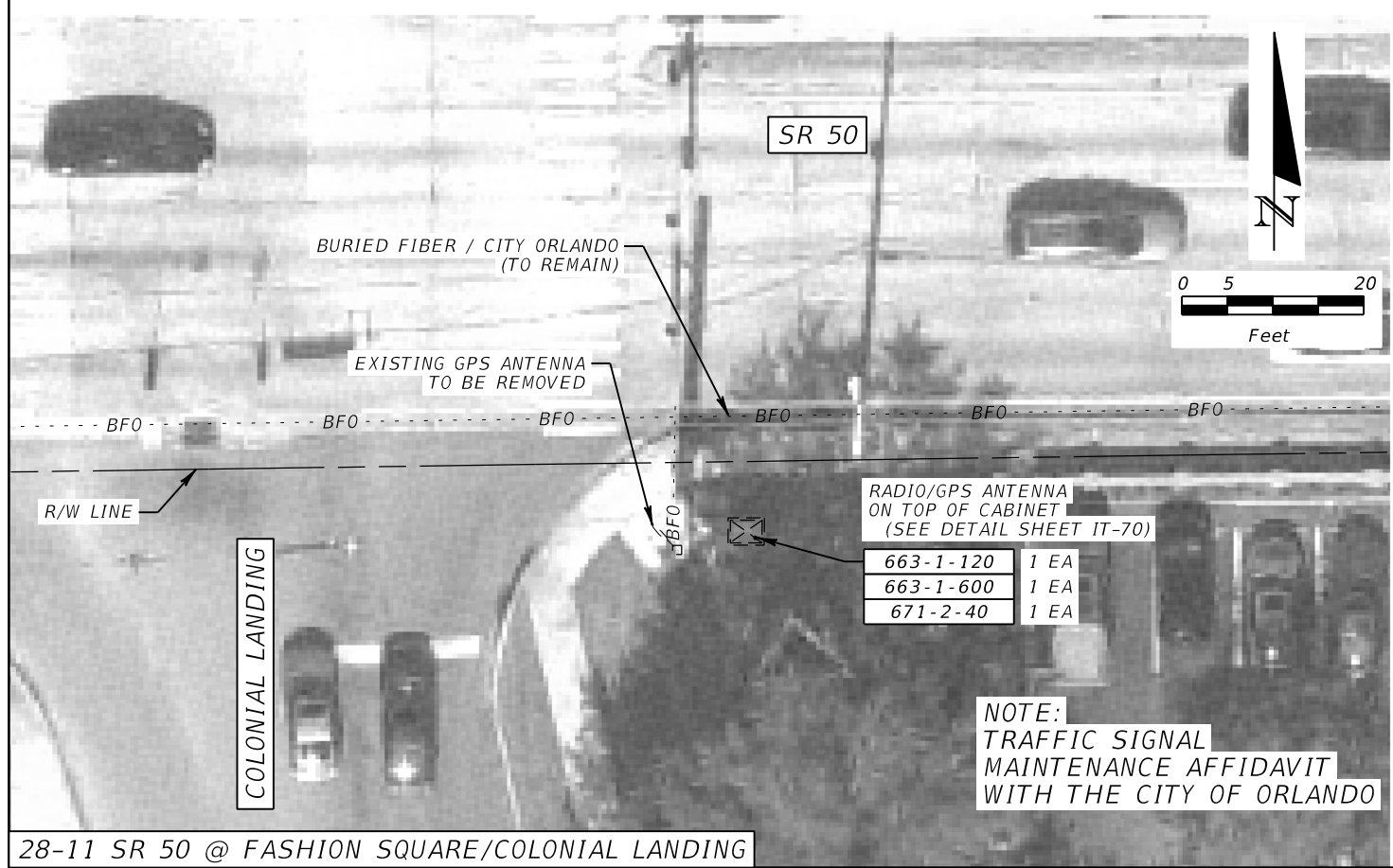
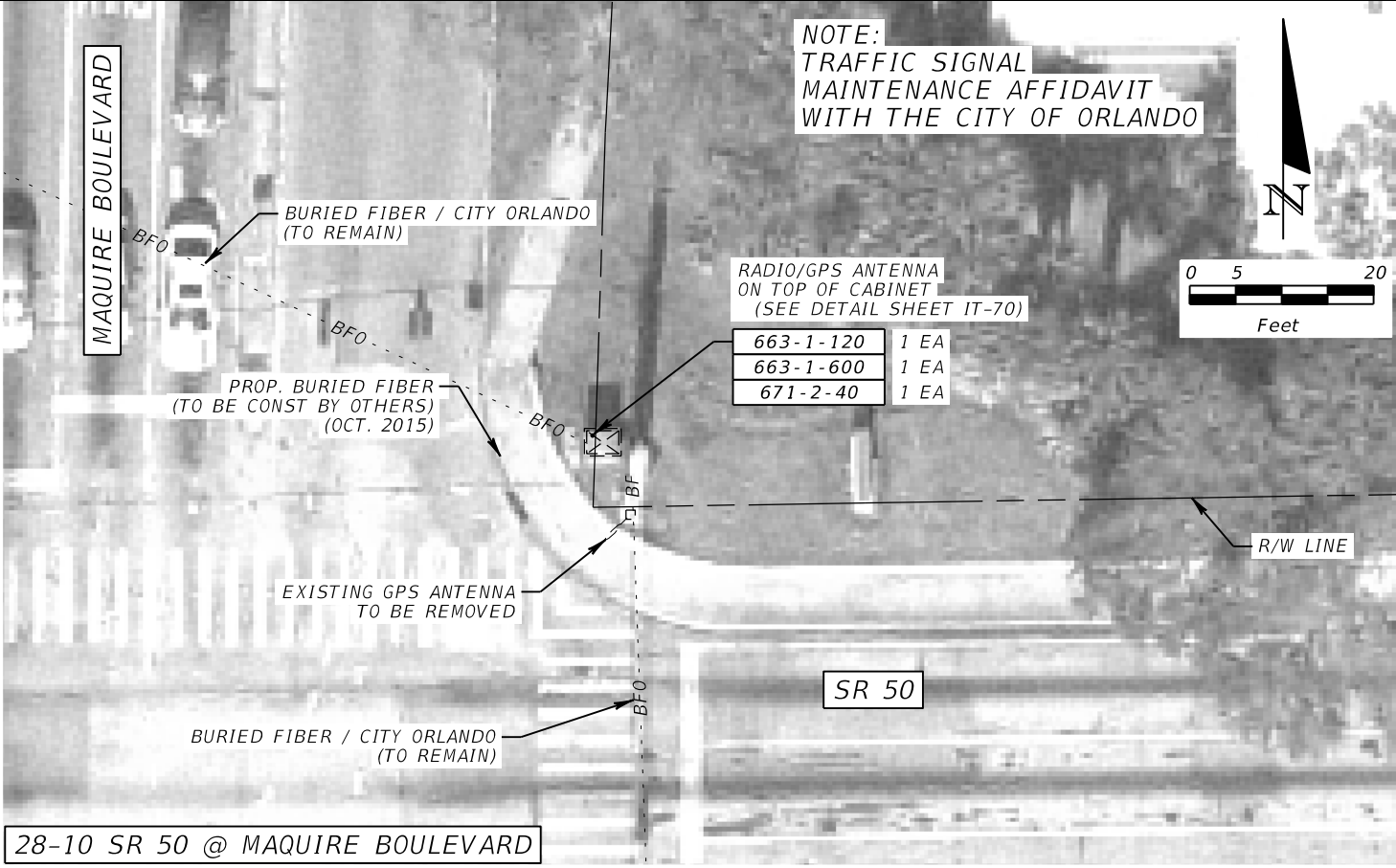
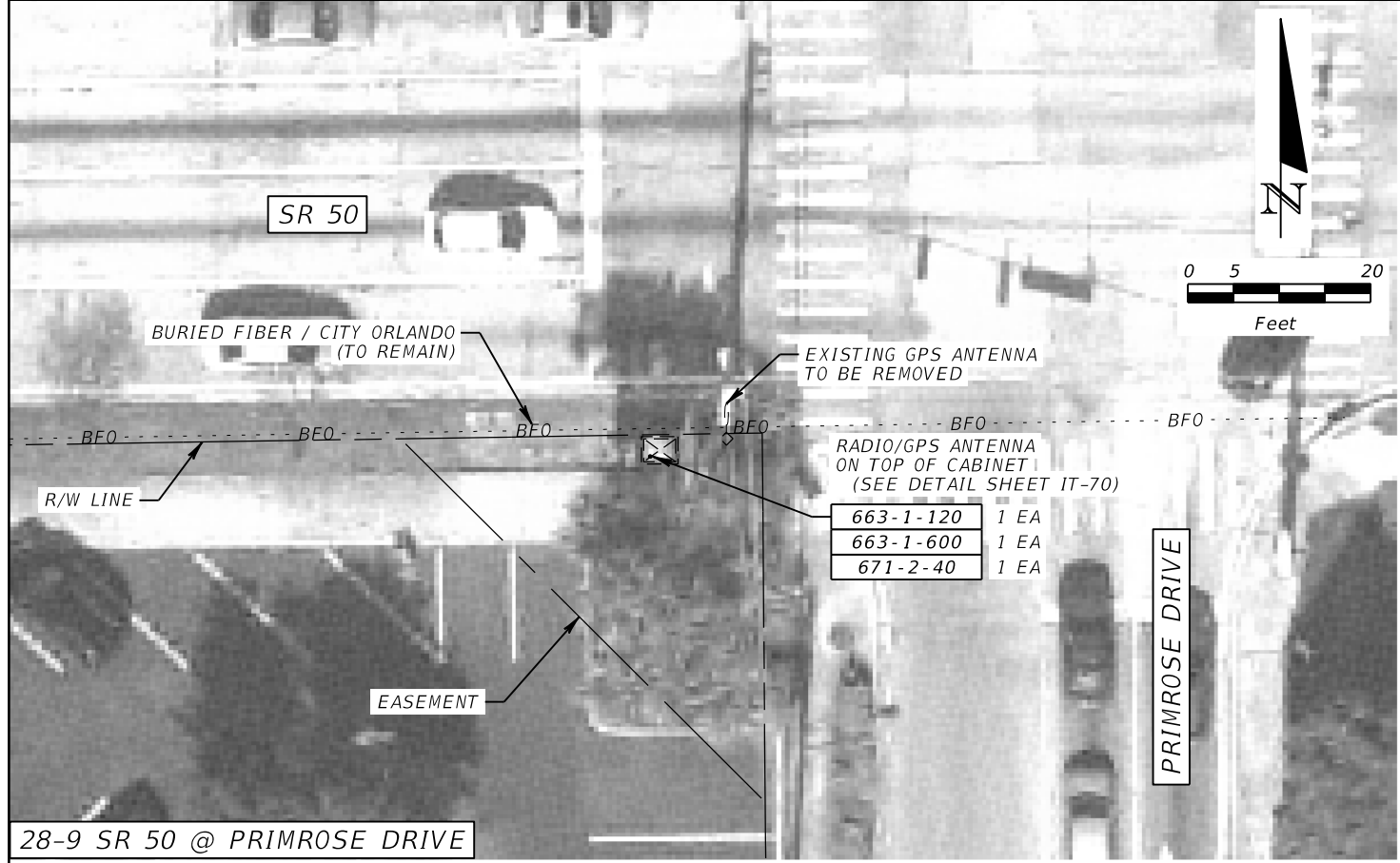
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-23

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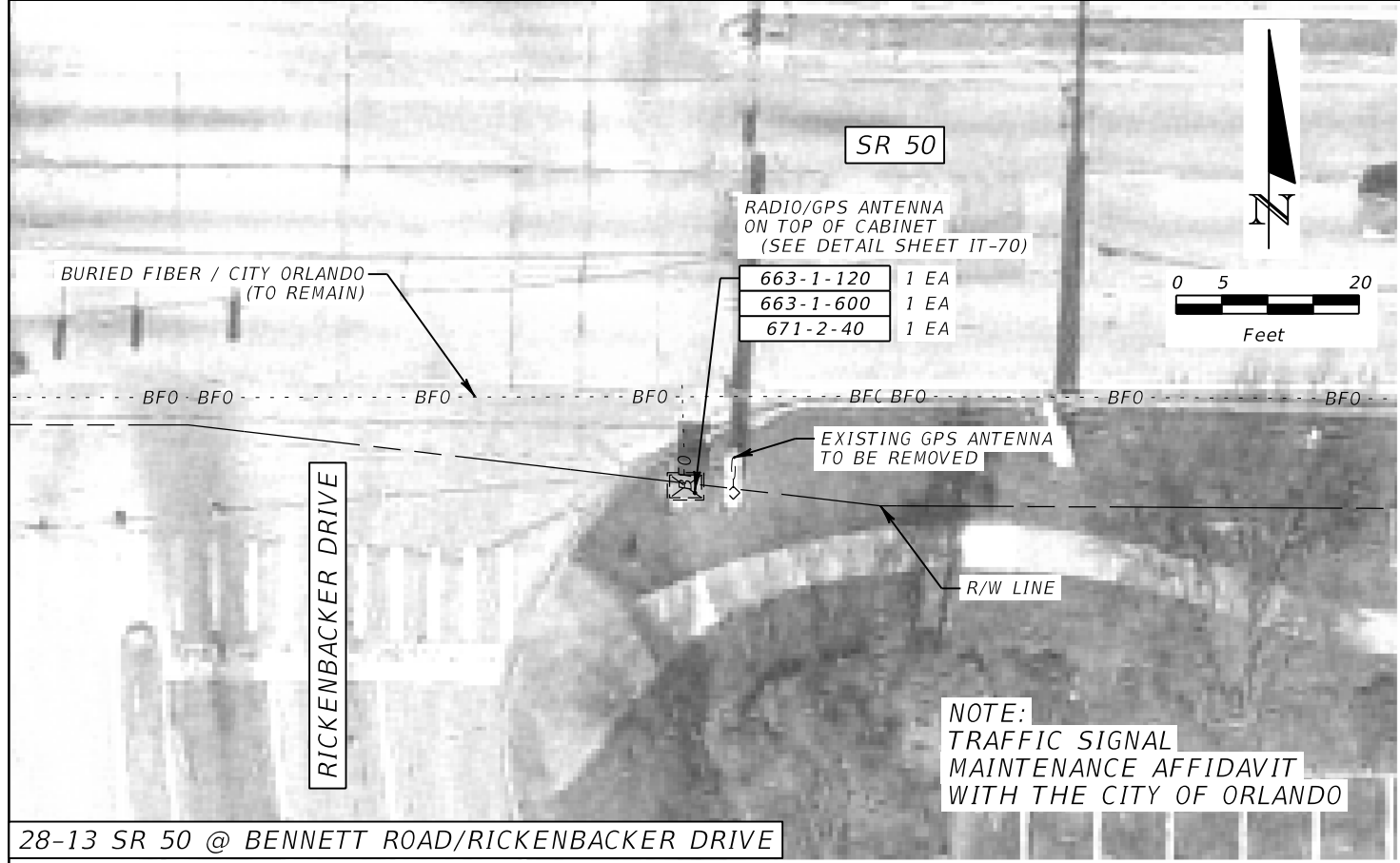
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

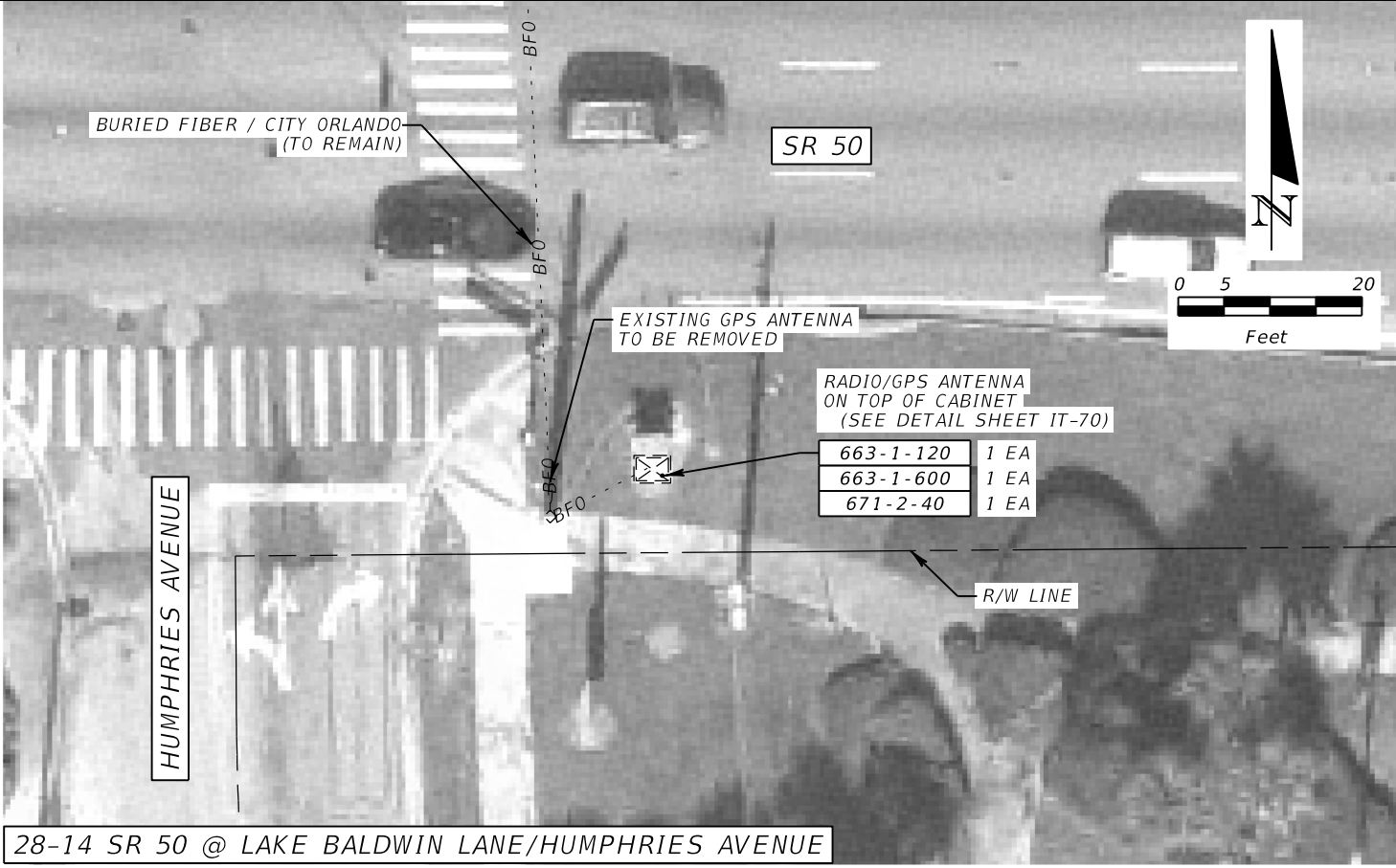
PLAN SHEET

SHEET NO.
IT-24

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28-13 SR 50 @ BENNETT ROAD/RICKENBACKER DRIVE



28-14 SR 50 @ LAKE BALDWIN LANE/HUMPHRIES AVENUE



28-15 SR 50 @ OLD CHENEY HIGHWAY (W)

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| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

METRIC ENGINEERING, INC.
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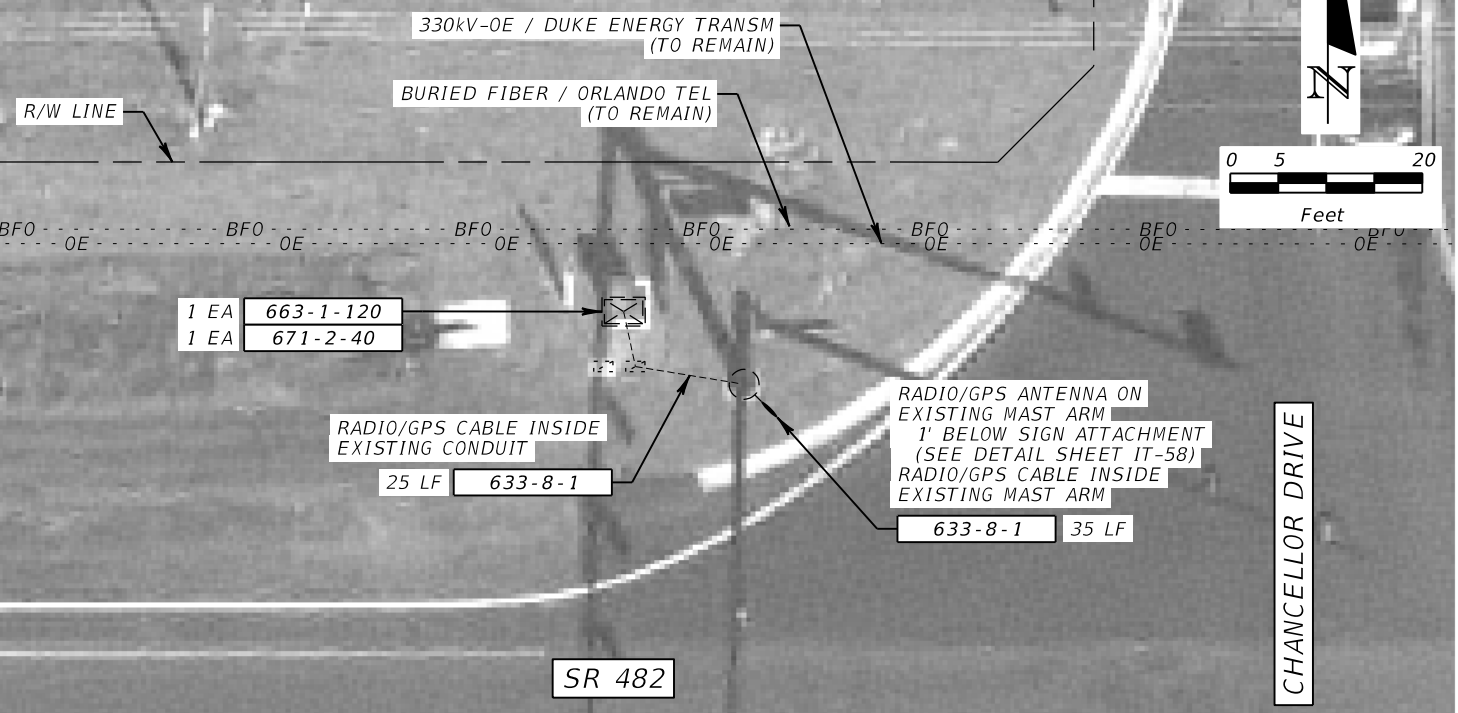
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-25

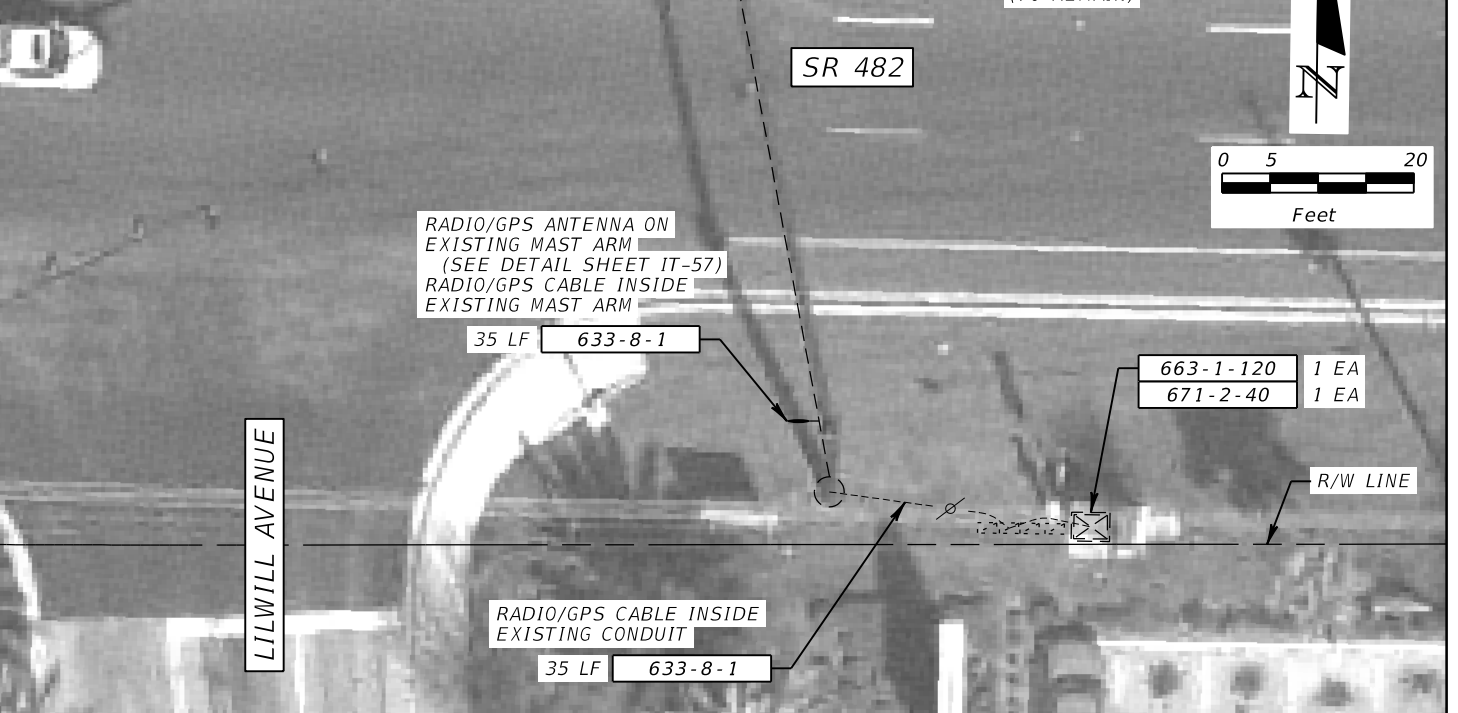
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NOTE:
TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.

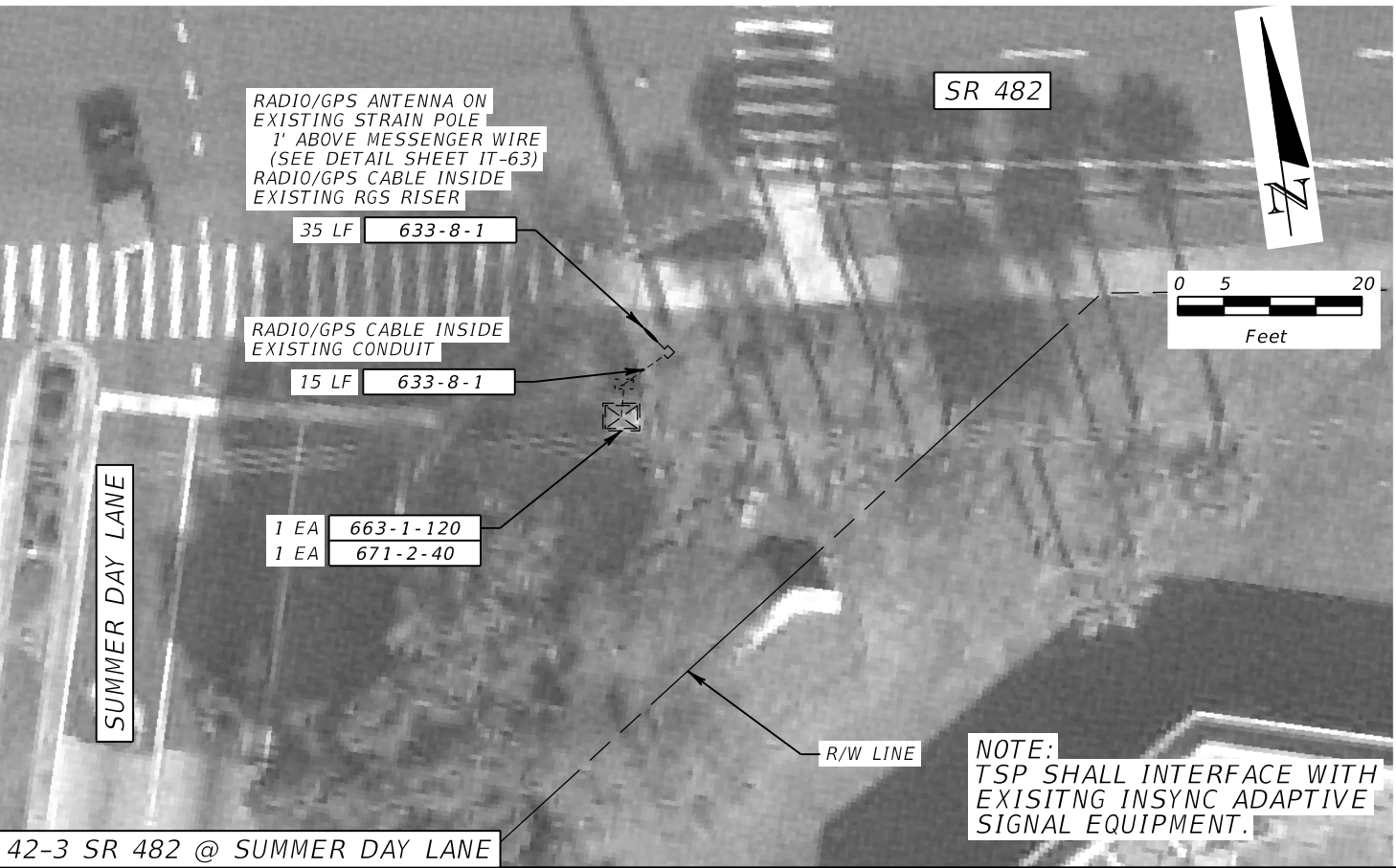


42-1 SR 482 @ CHANCELLOR DRIVE

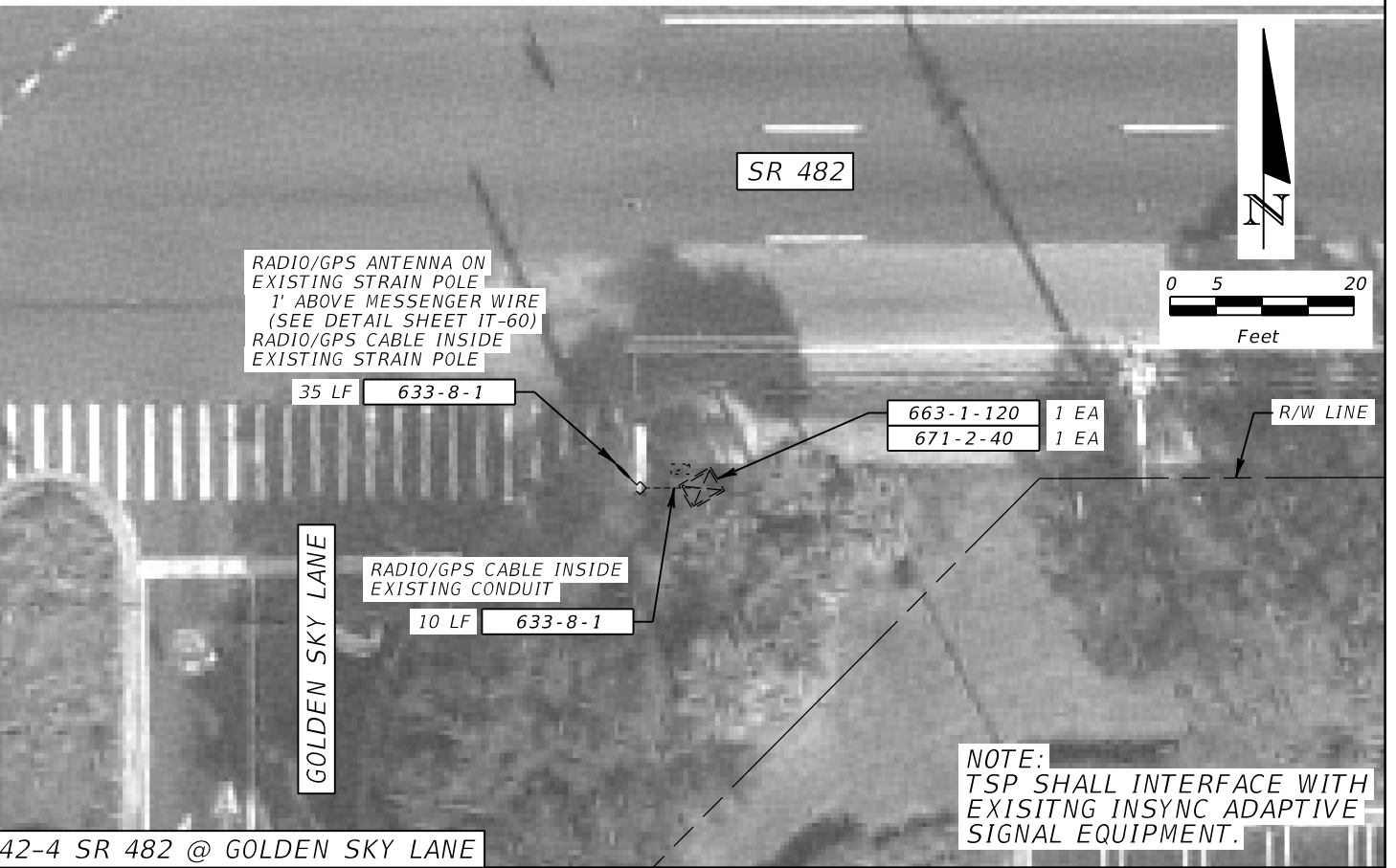
NOTE:
TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.



42-2 SR 482 @ LILWILL AVENUE



42-3 SR 482 @ SUMMER DAY LANE



42-4 SR 482 @ GOLDEN SKY LANE

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

METRIC ENGINEERING, INC.
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CERTIFICATE OF AUTHORIZATION 2294

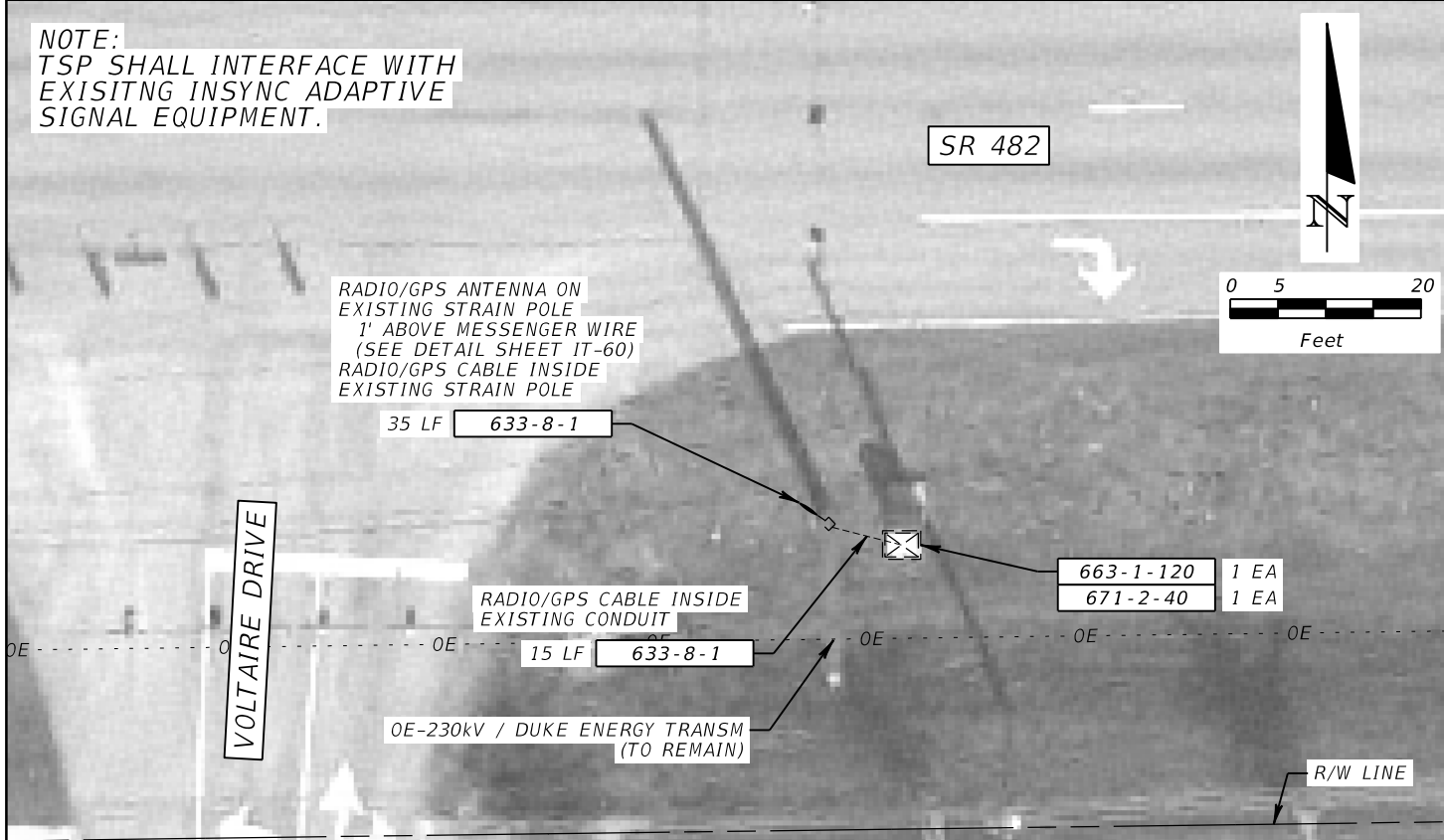
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-26

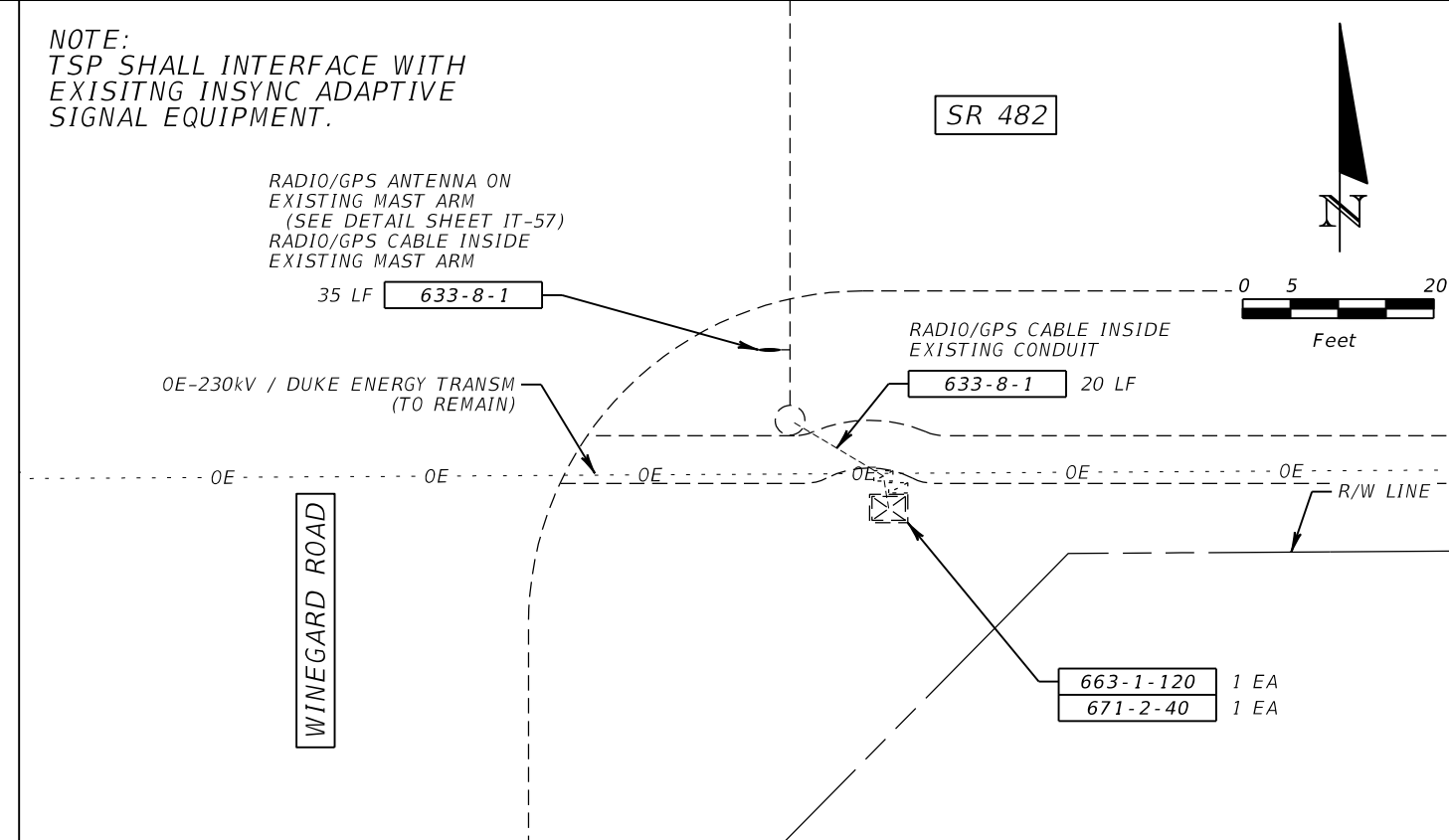
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NOTE:
TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.

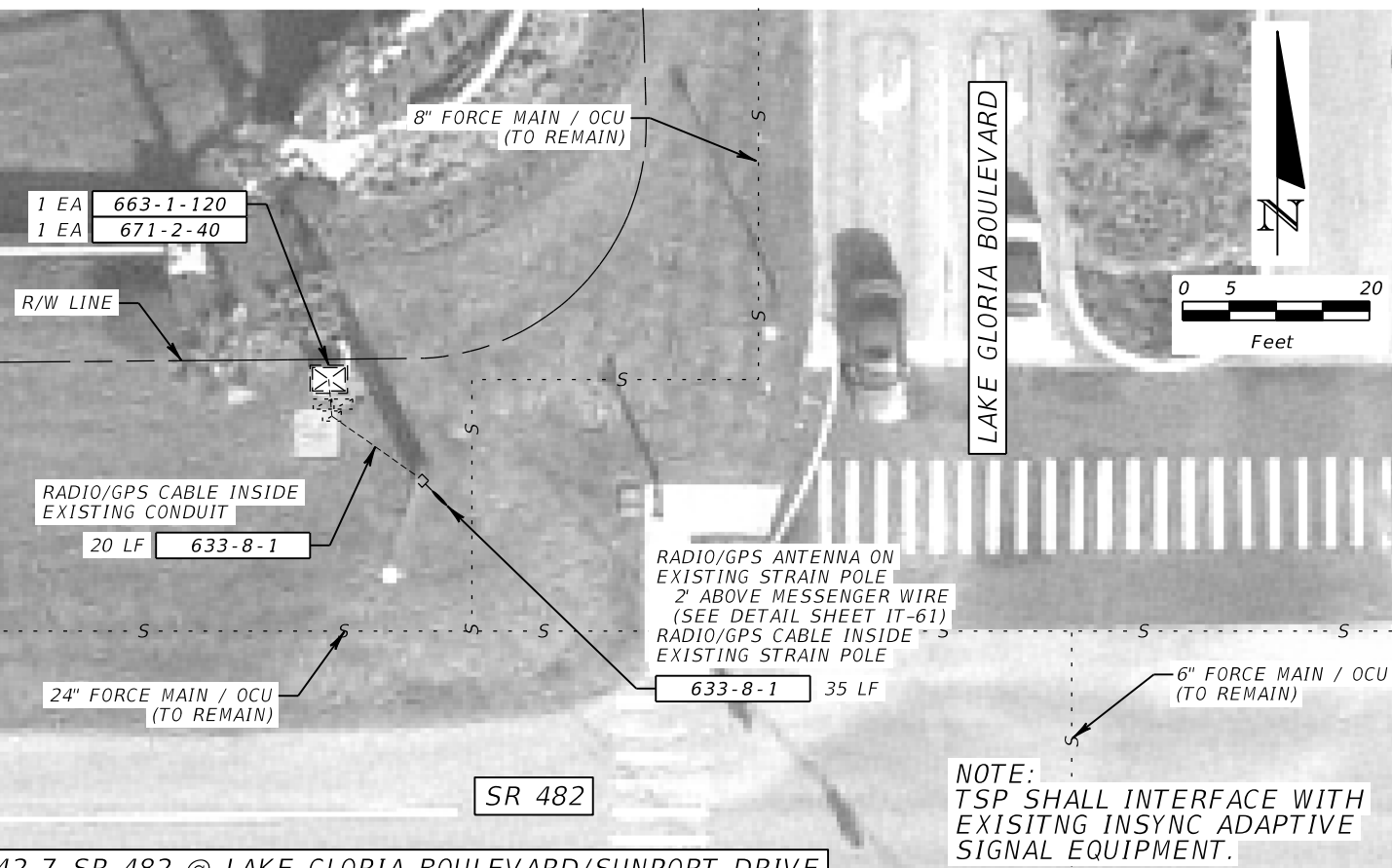


42-5 SR 482 @ VOLTAIRE DRIVE

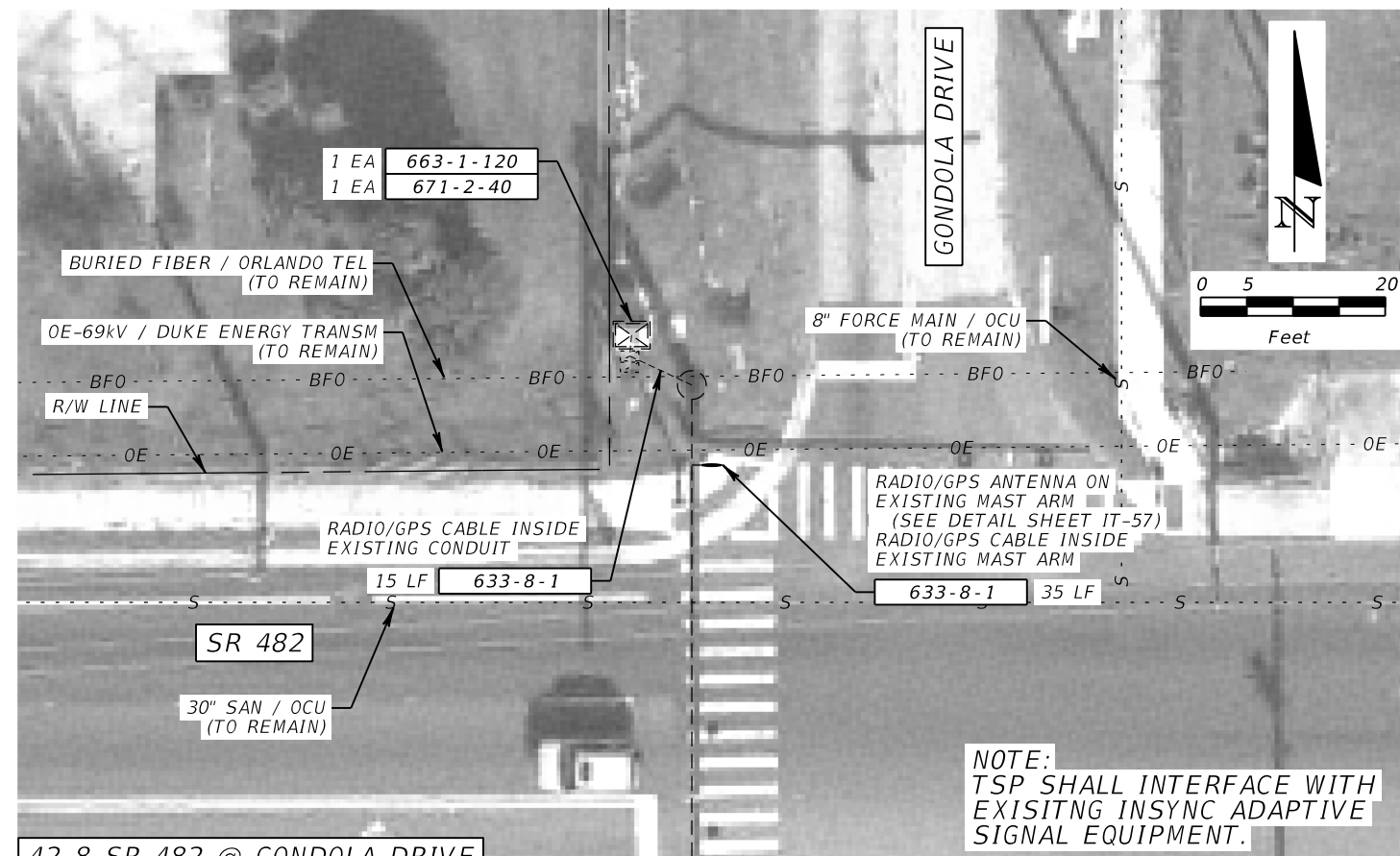
NOTE:
TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.



42-6 SR 482 @ WINEGARD ROAD



42-7 SR 482 @ LAKE GLORIA BOULEVARD/SUNPORT DRIVE



42-8 SR 482 @ GONDOLA DRIVE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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SUITE 524
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FAX. (407) 644-2376
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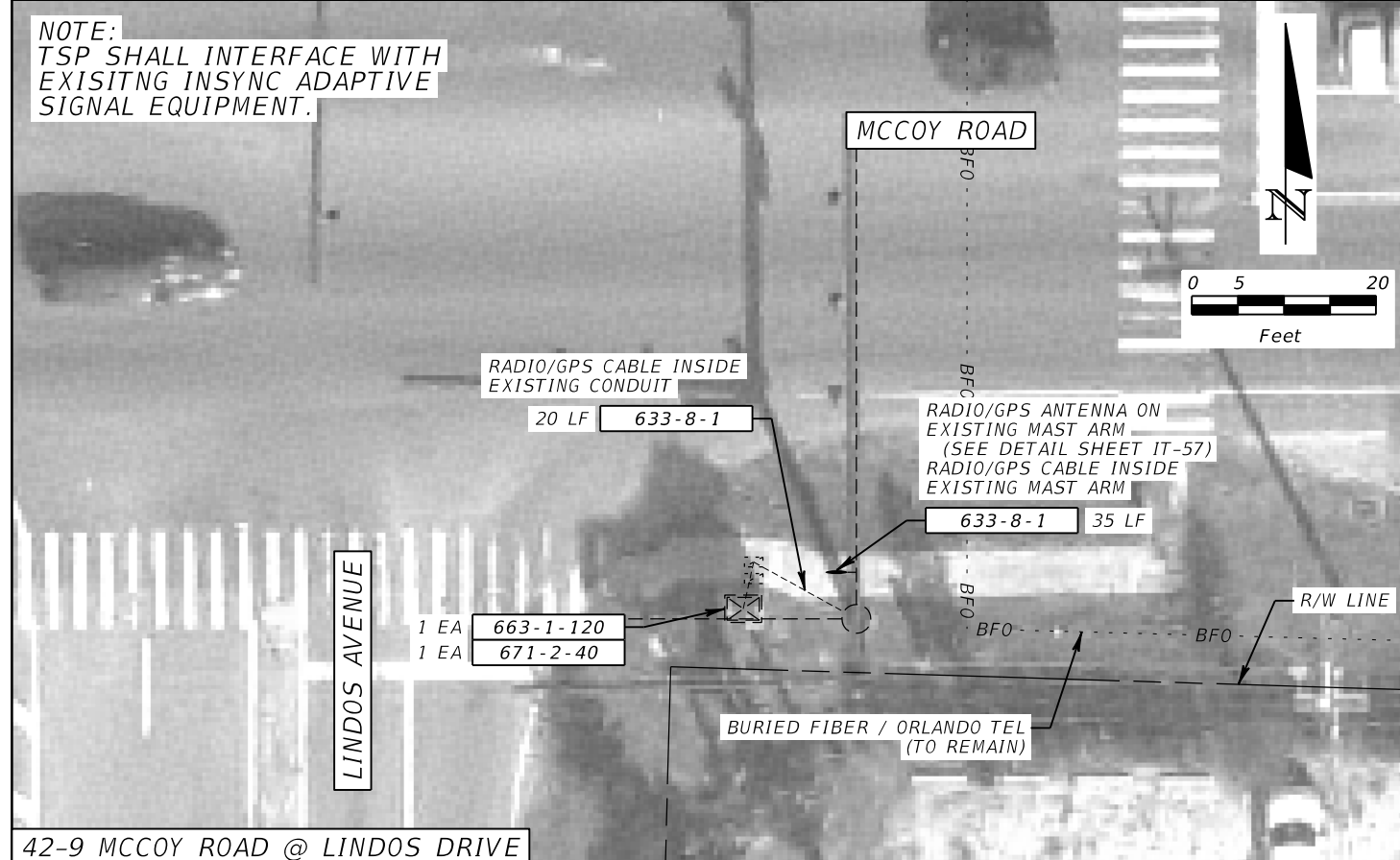
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-27

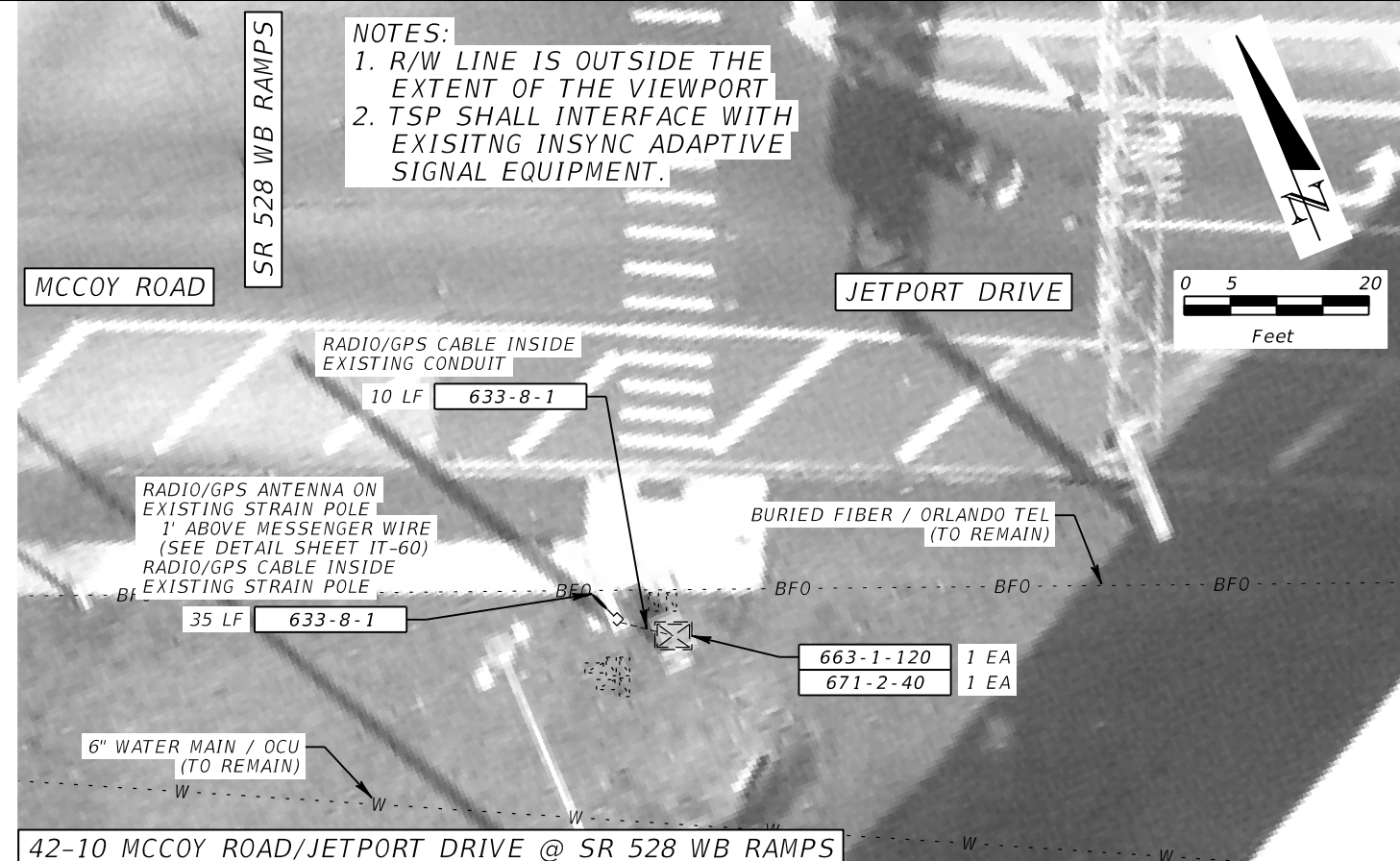
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NOTE:
TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.



42-9 MCCOY ROAD @ LINDOS DRIVE

NOTES:
1. R/W LINE IS OUTSIDE THE
EXTENT OF THE VIEWPORT
2. TSP SHALL INTERFACE WITH
EXISTING INSYNC ADAPTIVE
SIGNAL EQUIPMENT.

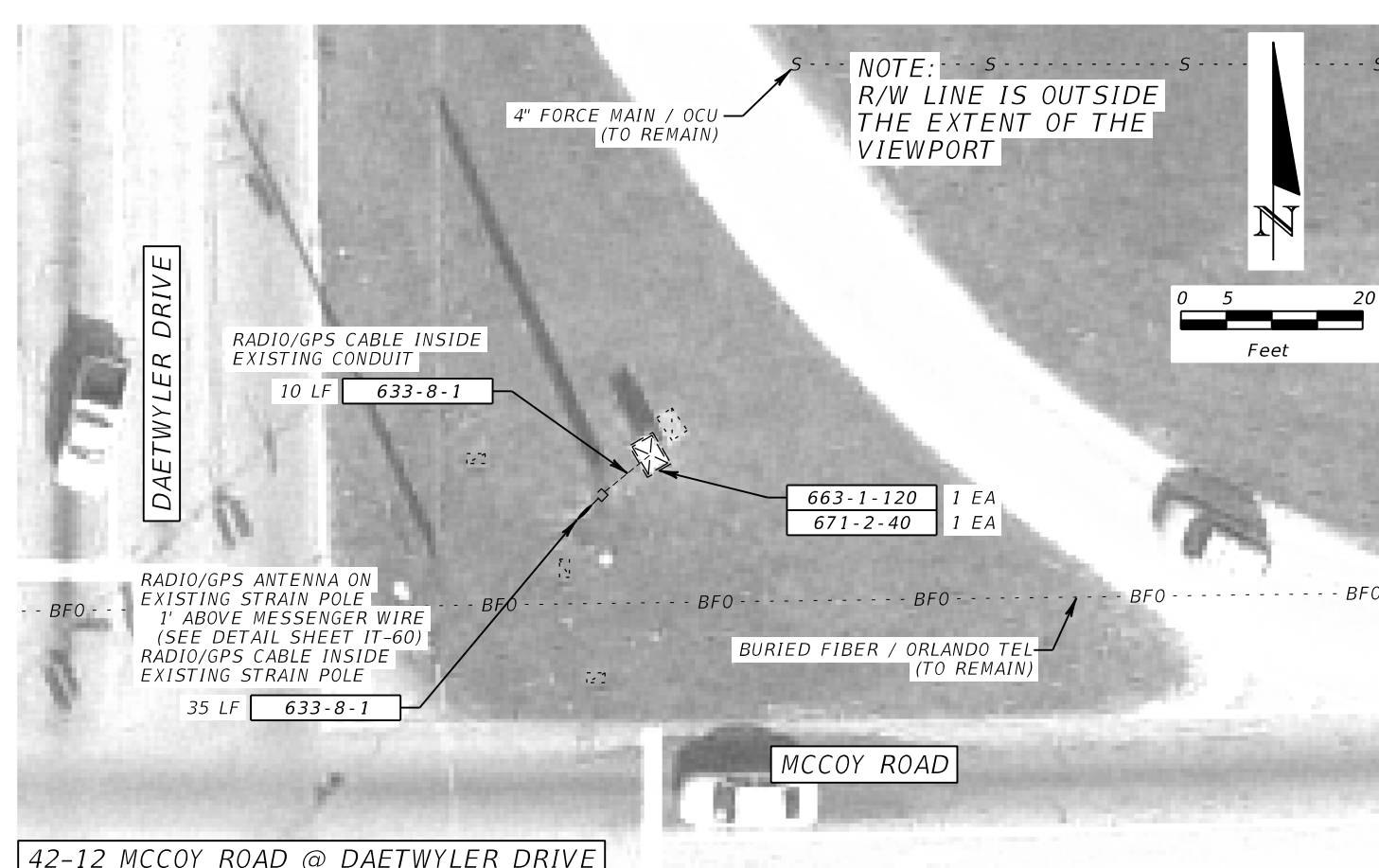


42-10 MCCOY ROAD/JETPORT DRIVE @ SR 528 WB RAMPS



42-11 BOGGY CREEK ROAD @ JETPORT DRIVE

NOTE:
R/W LINE IS OUTSIDE
THE EXTENT OF THE
VIEWPORT



42-12 MCCOY ROAD @ DAETWYLER DRIVE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

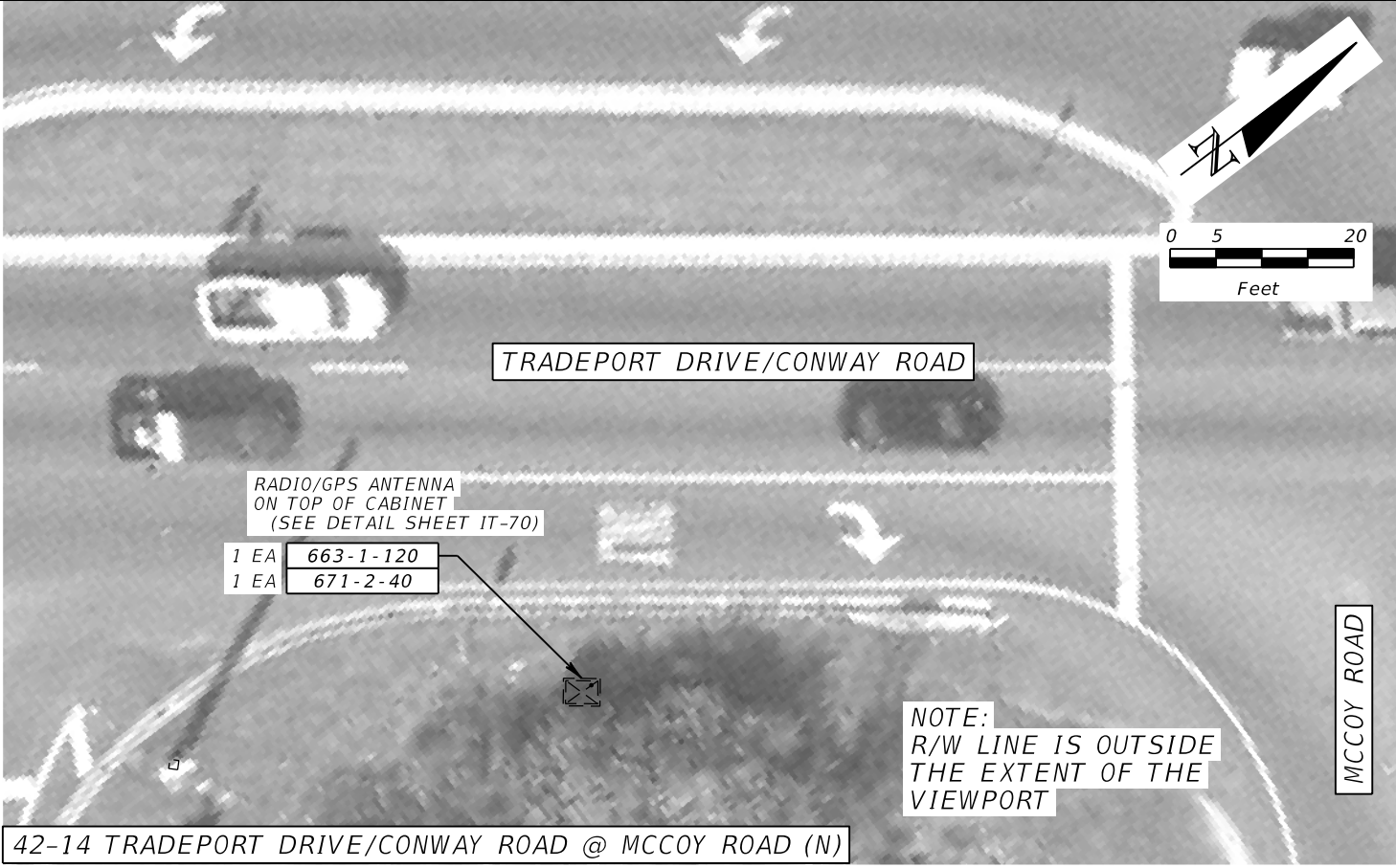
METRIC ENGINEERING, INC.
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PLAN SHEET

SHEET
NO.
IT-28

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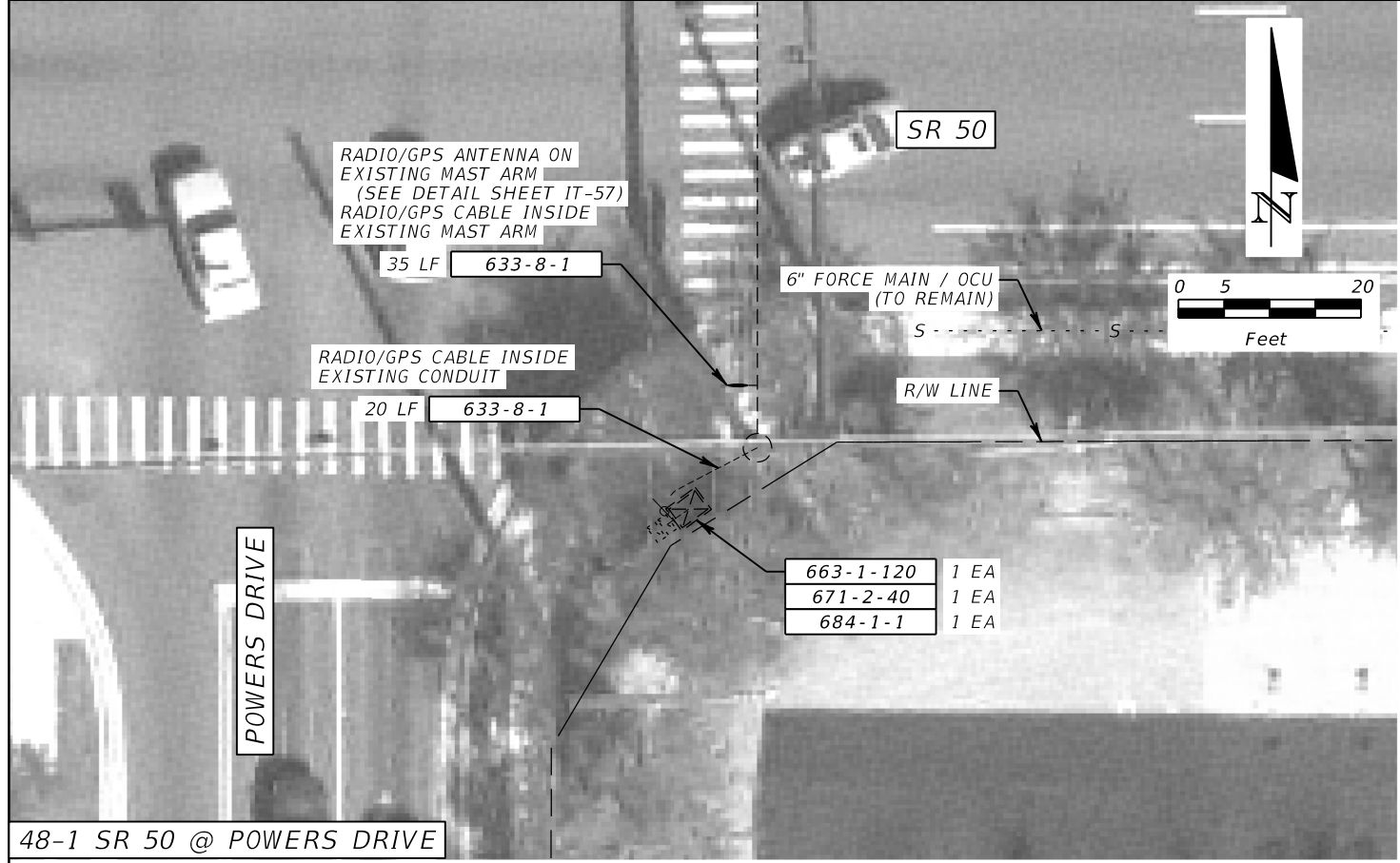
METRIC ENGINEERING, INC.
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

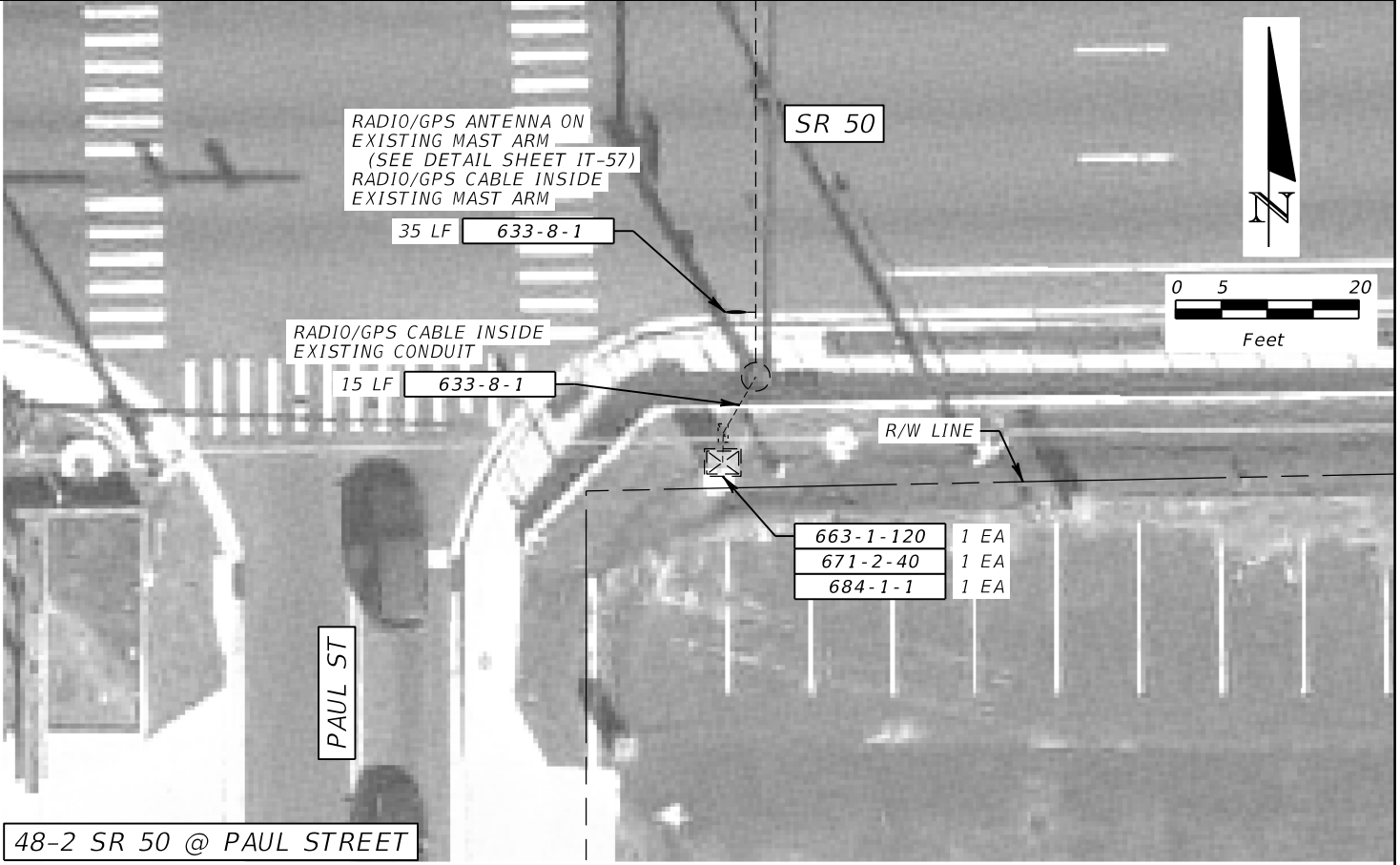
PLAN SHEET

SHEET NO.
IT-29

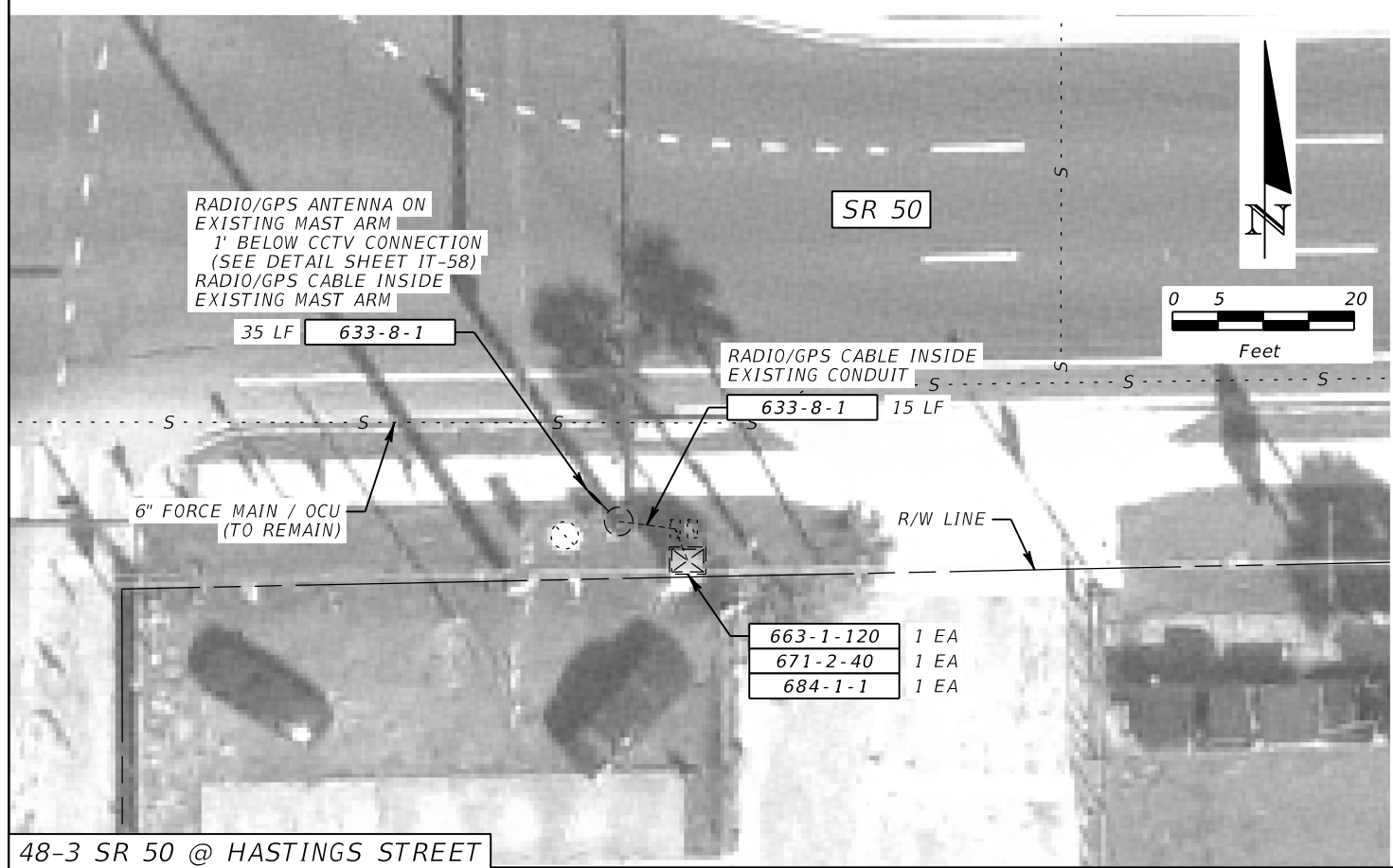
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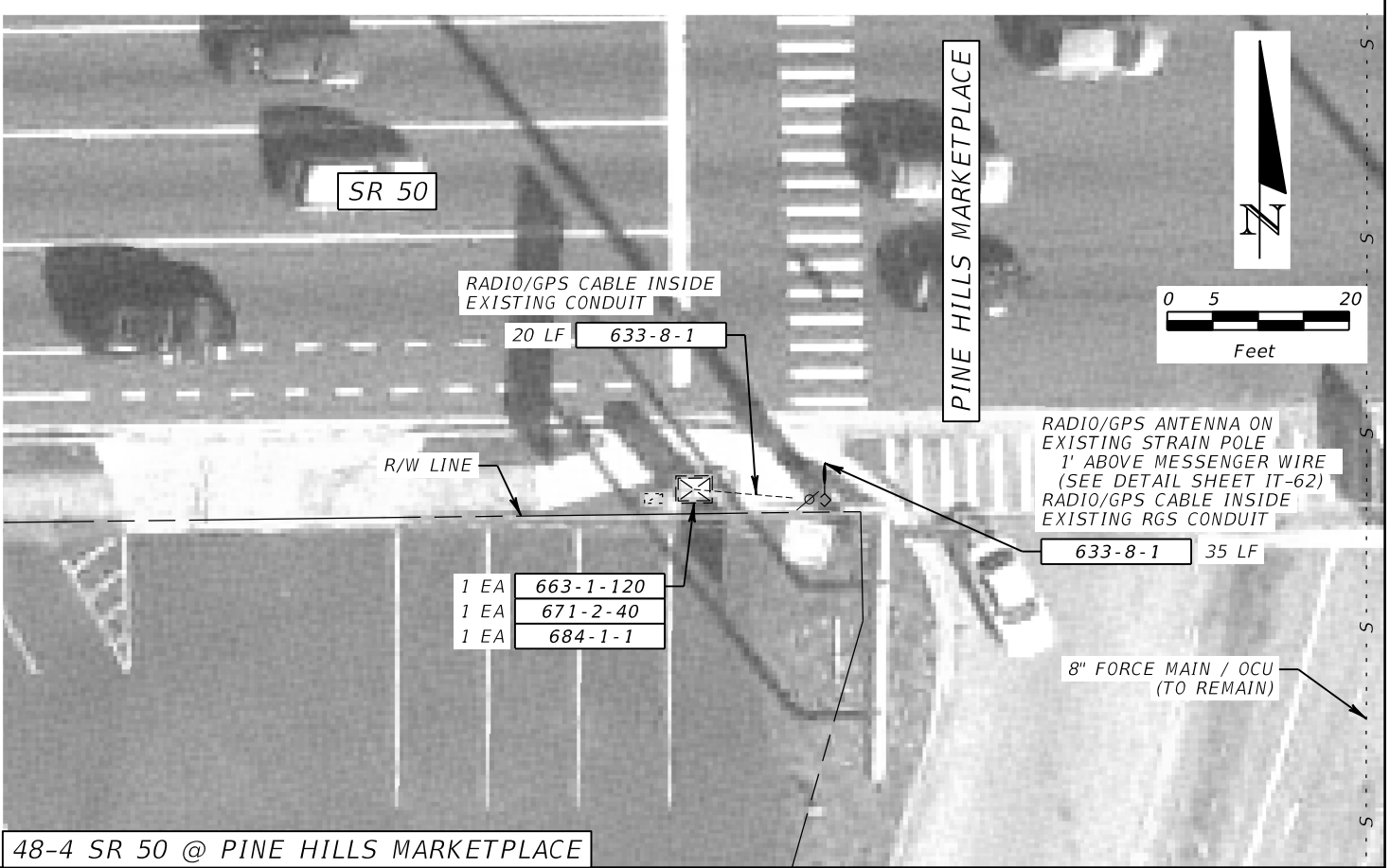
48-1 SR 50 @ POWERS DRIVE



48-2 SR 50 @ PAUL STREET



48-3 SR 50 @ HASTINGS STREET



48-4 SR 50 @ PINE HILLS MARKETPLACE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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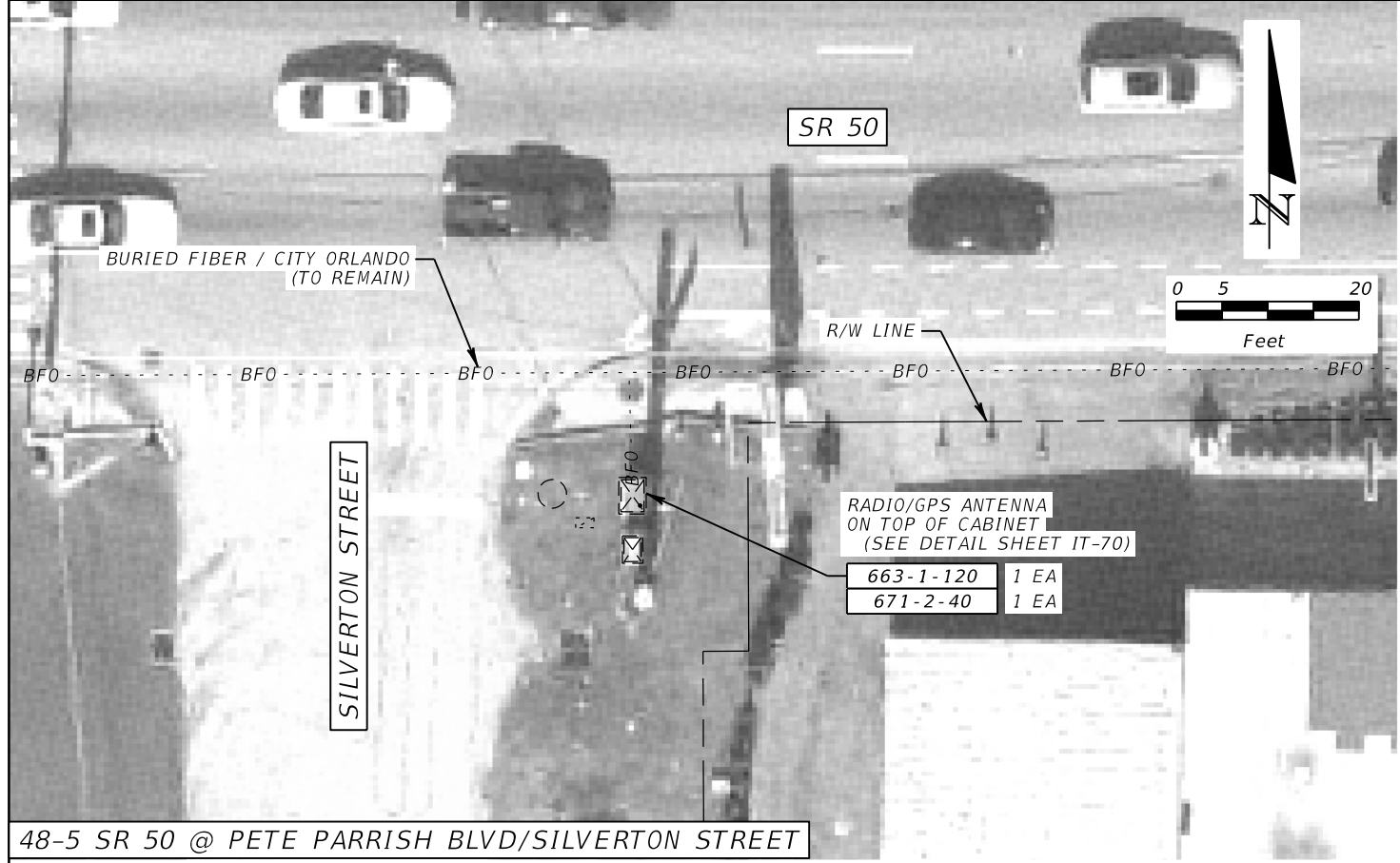
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

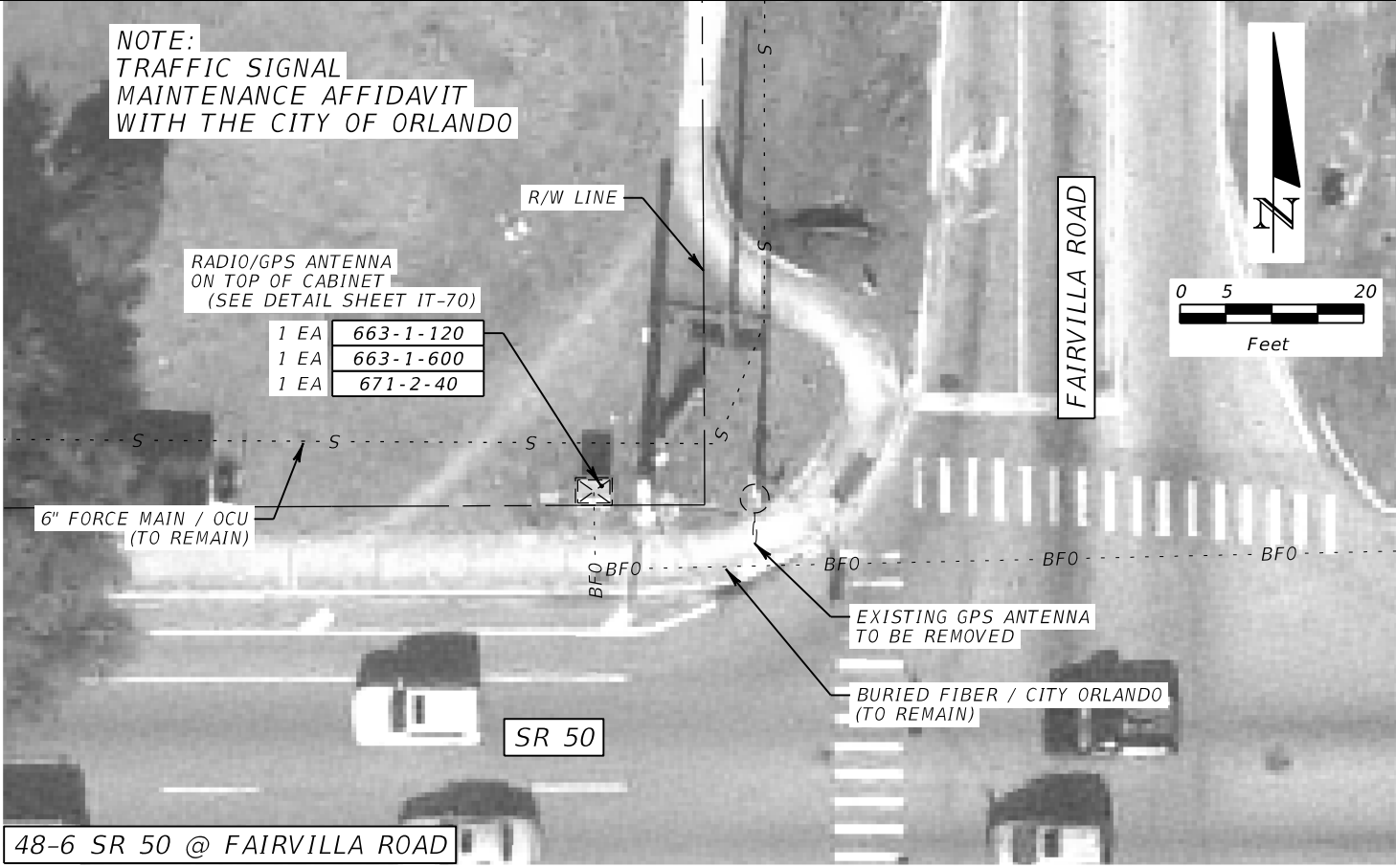
PLAN SHEET

SHEET NO.
IT-30

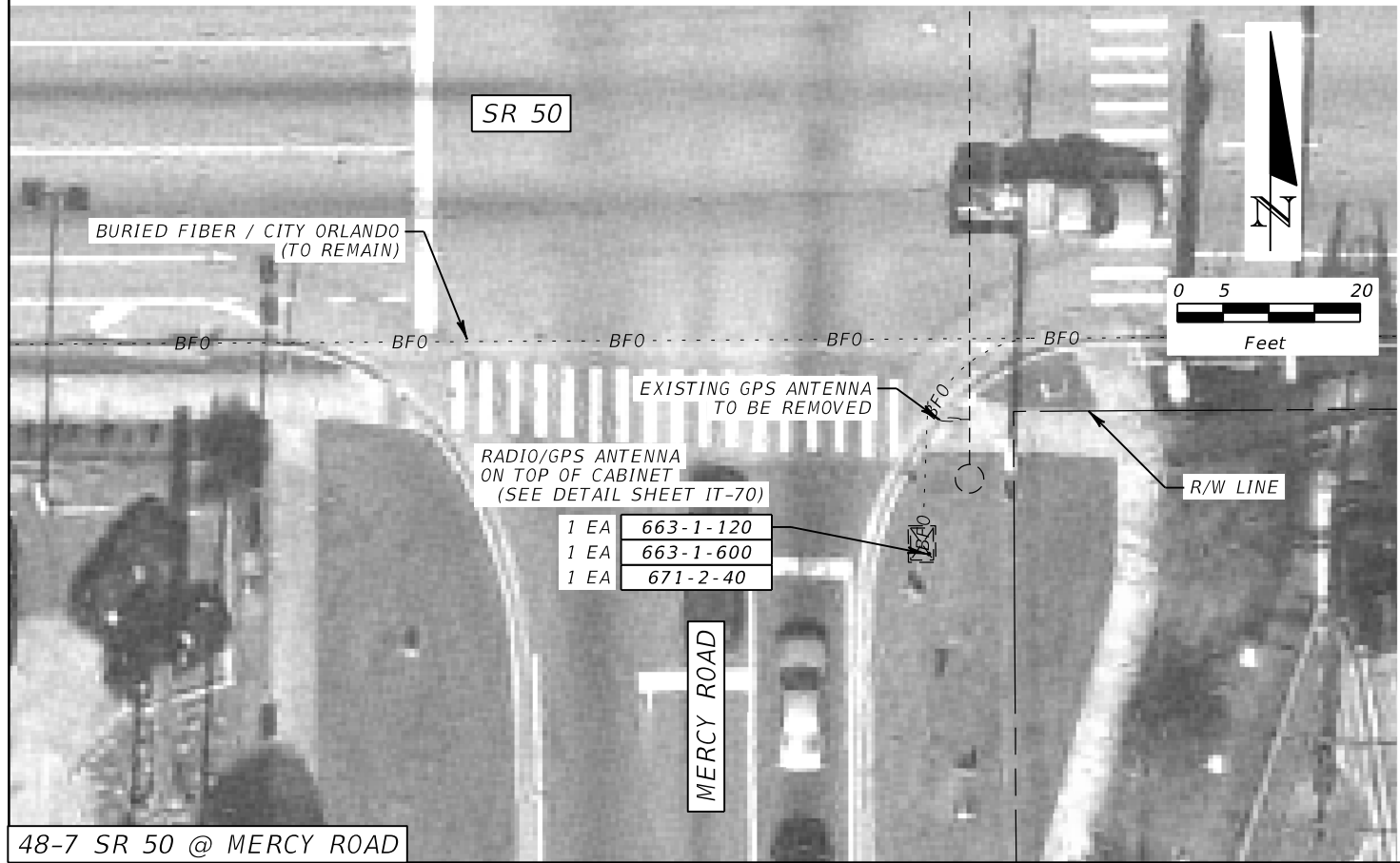
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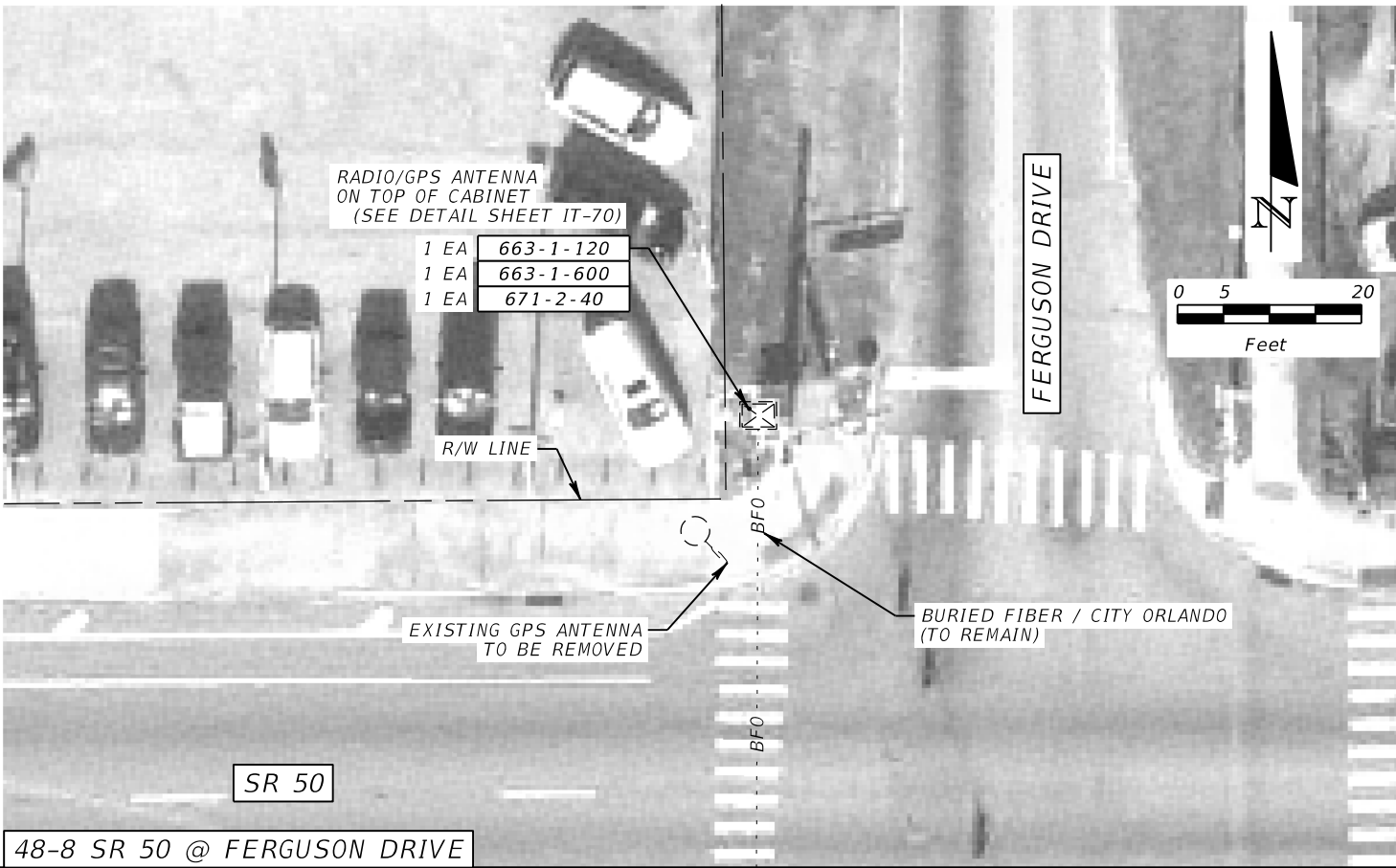
48-5 SR 50 @ PETE PARRISH BLVD/SILVERTON STREET



48-6 SR 50 @ FAIRVILLA ROAD



48-7 SR 50 @ MERCY ROAD



48-8 SR 50 @ FERGUSON DRIVE

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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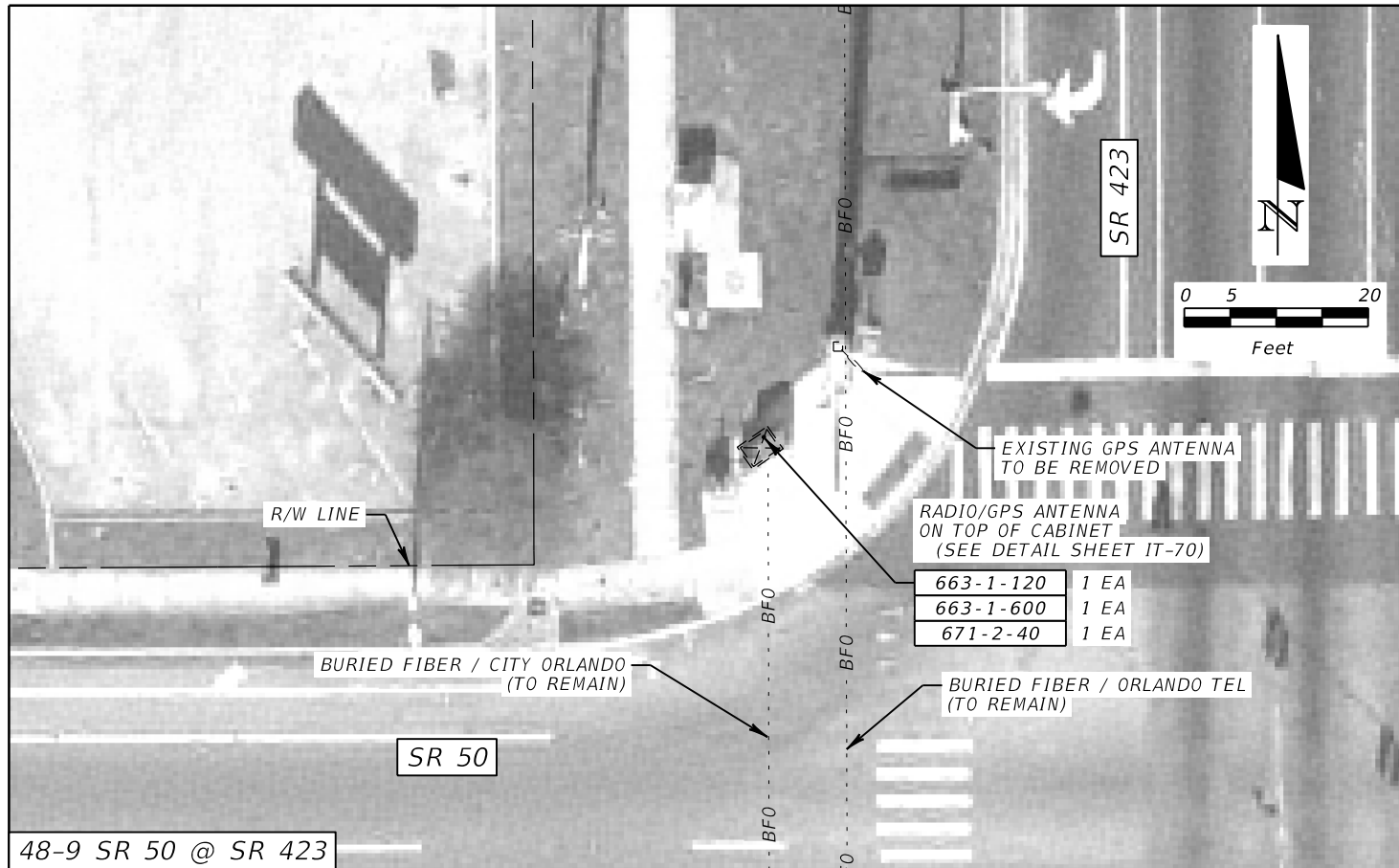
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
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| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

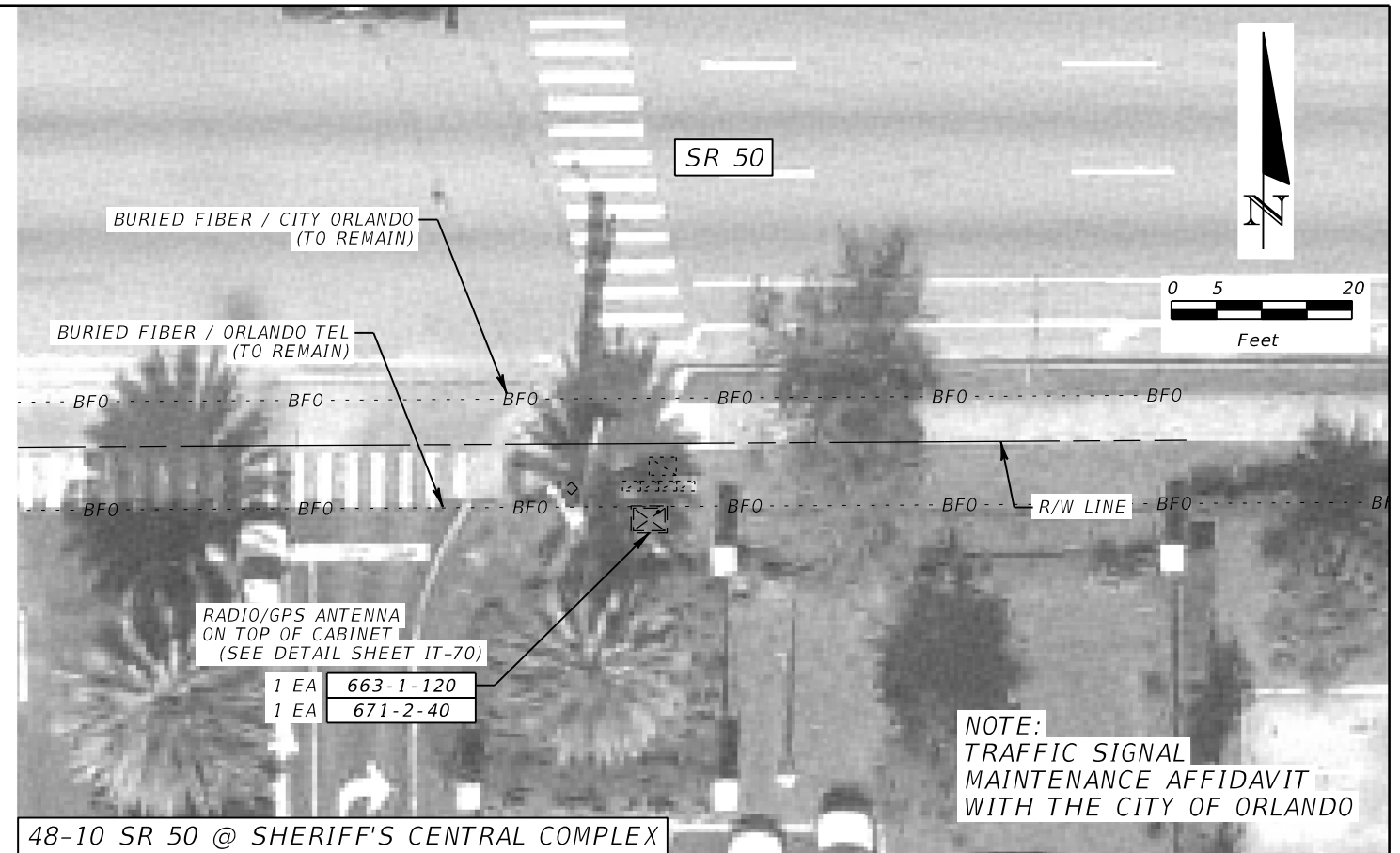
PLAN SHEET

SHEET NO.
IT-31

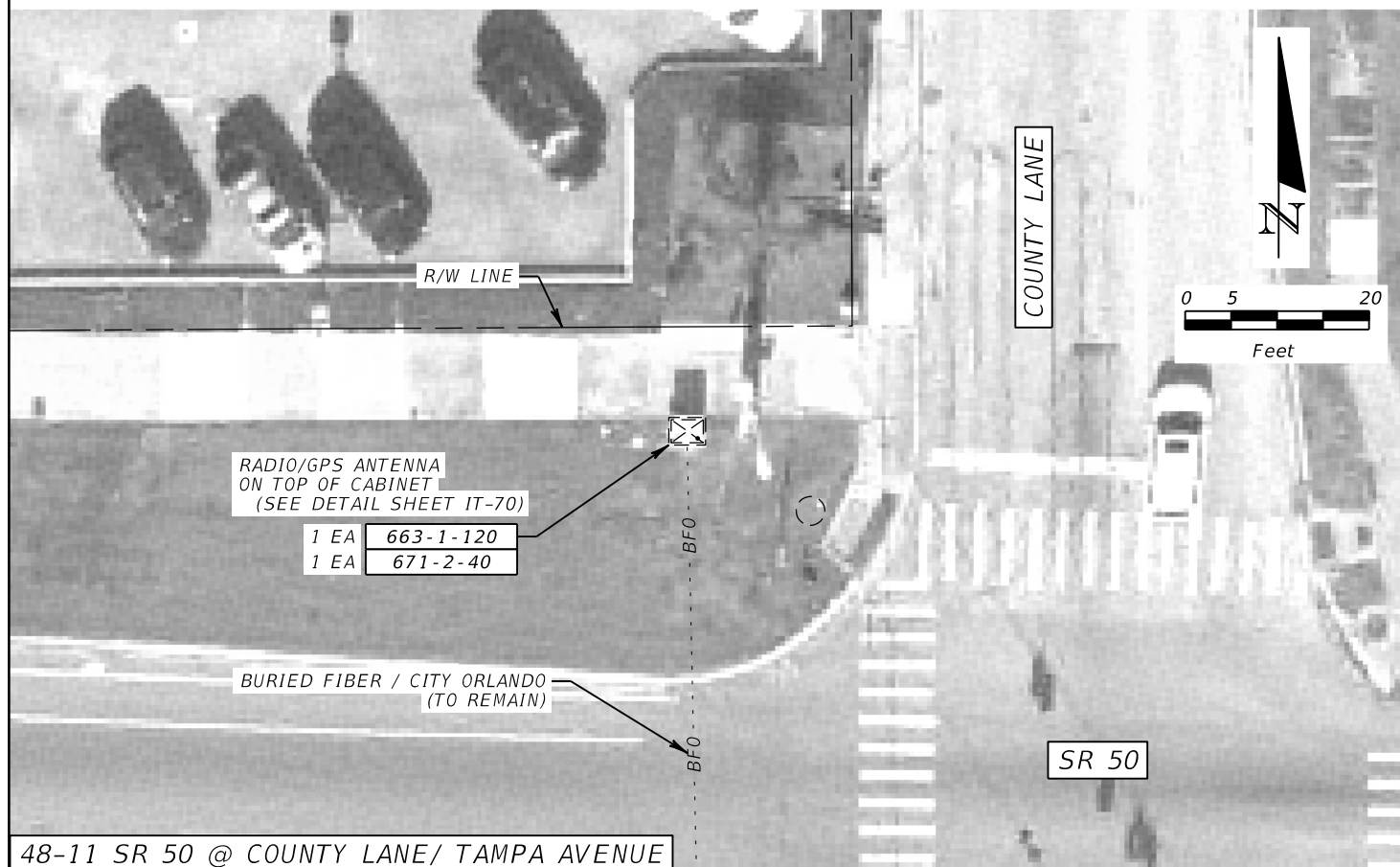
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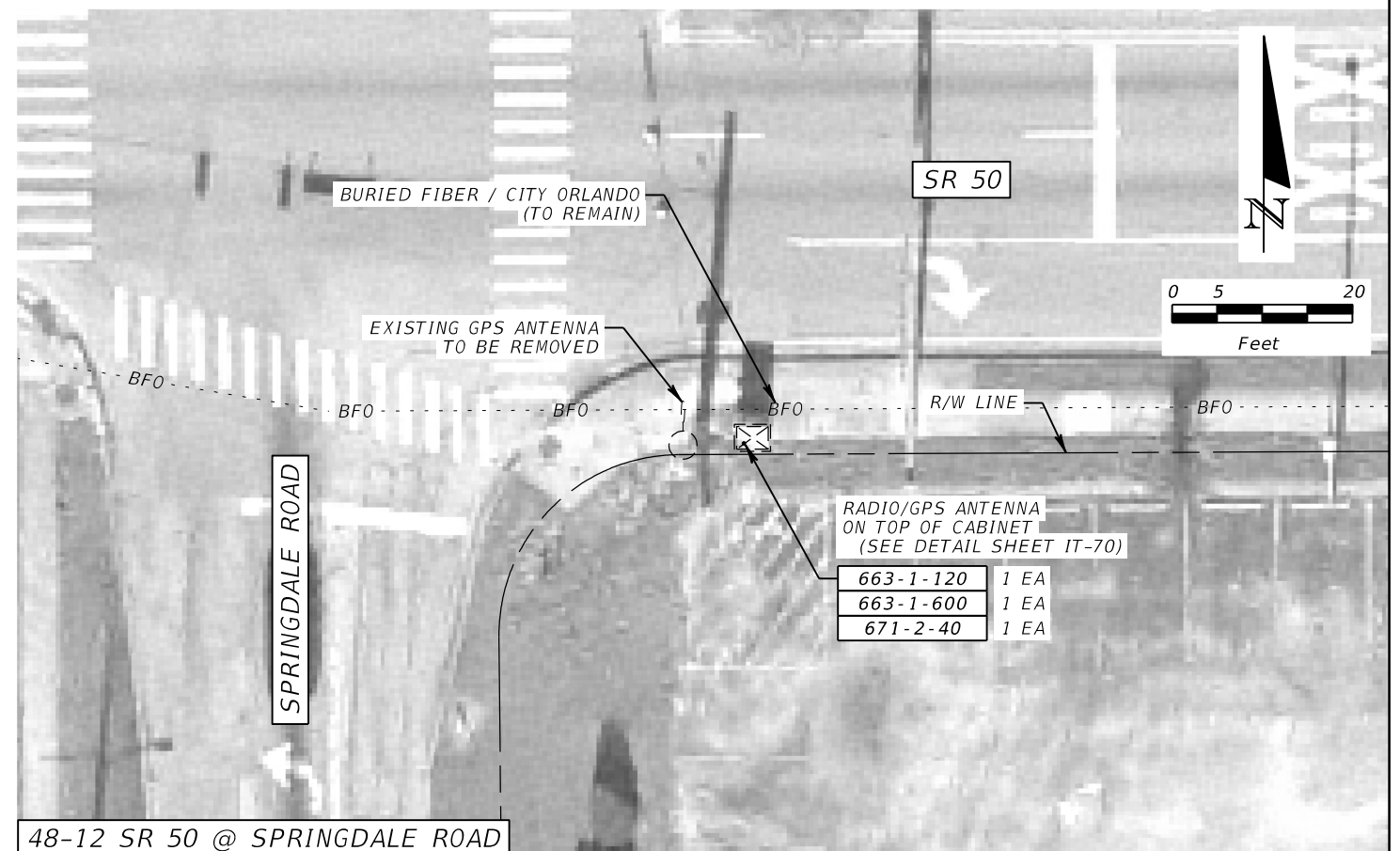
48-9 SR 50 @ SR 423



48-10 SR 50 @ SHERIFF'S CENTRAL COMPLEX



48-11 SR 50 @ COUNTY LANE/ TAMPA AVENUE



48-12 SR 50 @ SPRINGDALE ROAD

| REVISIONS | | | |
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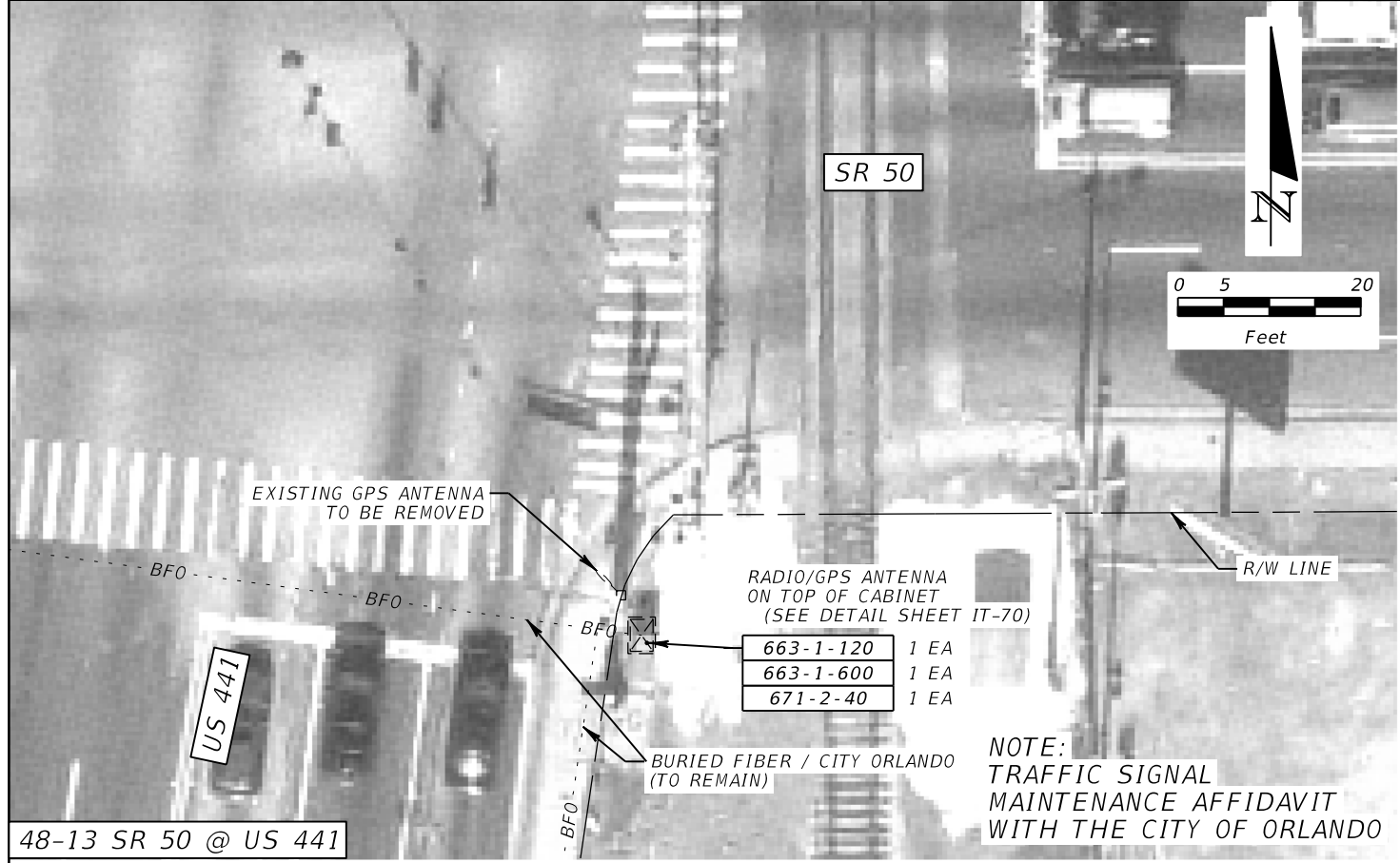
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

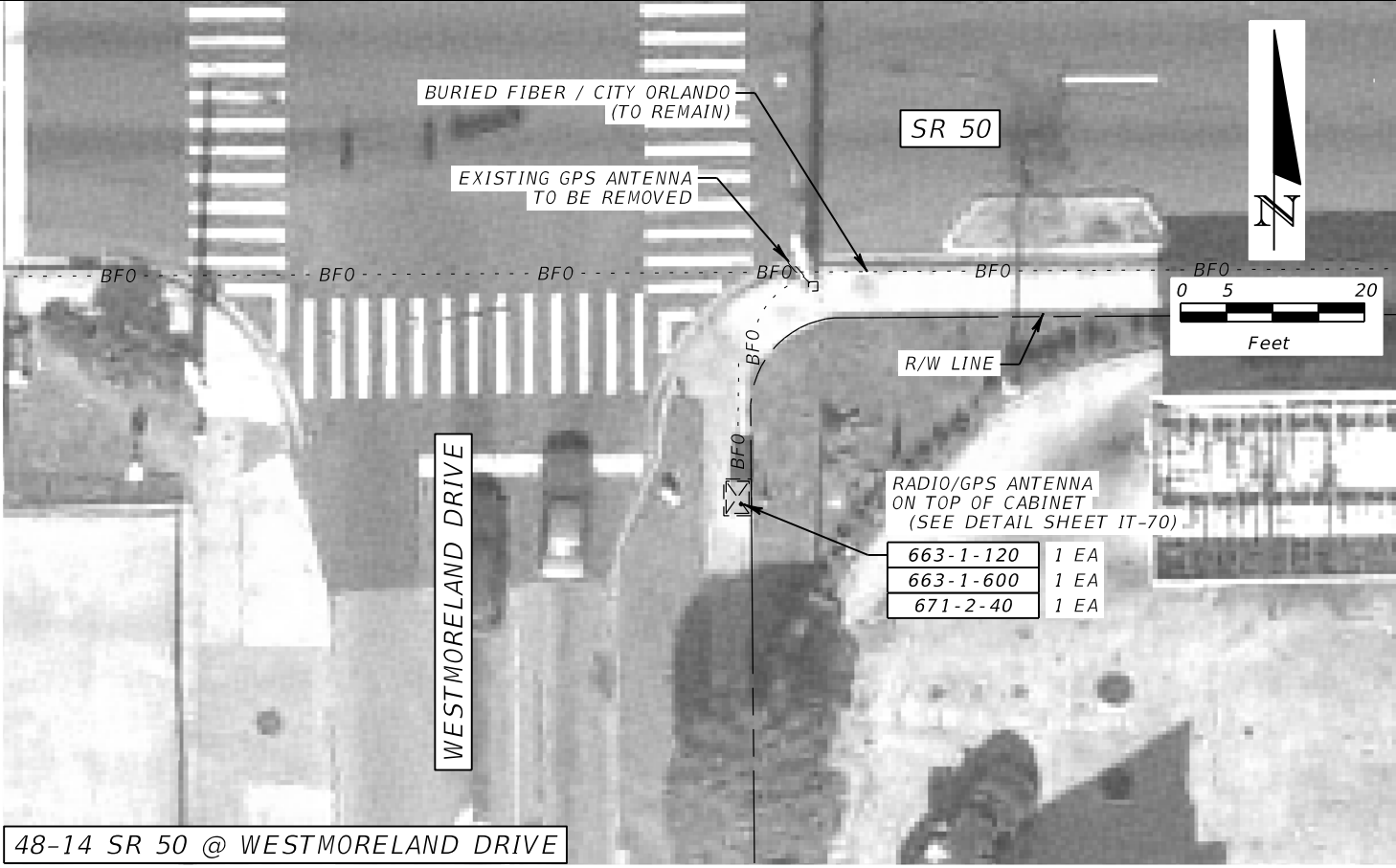
PLAN SHEET

SHEET NO.
IT-32

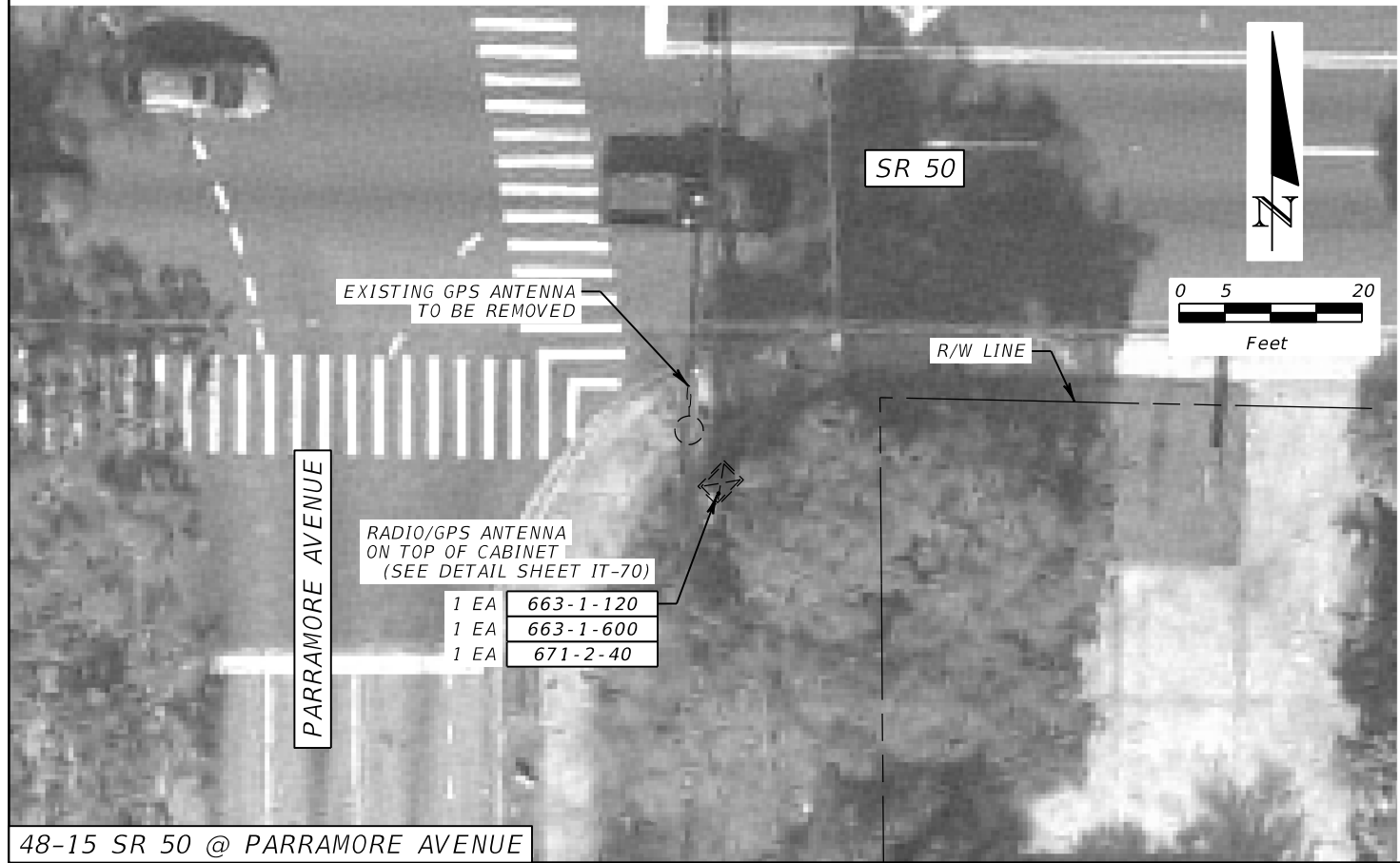
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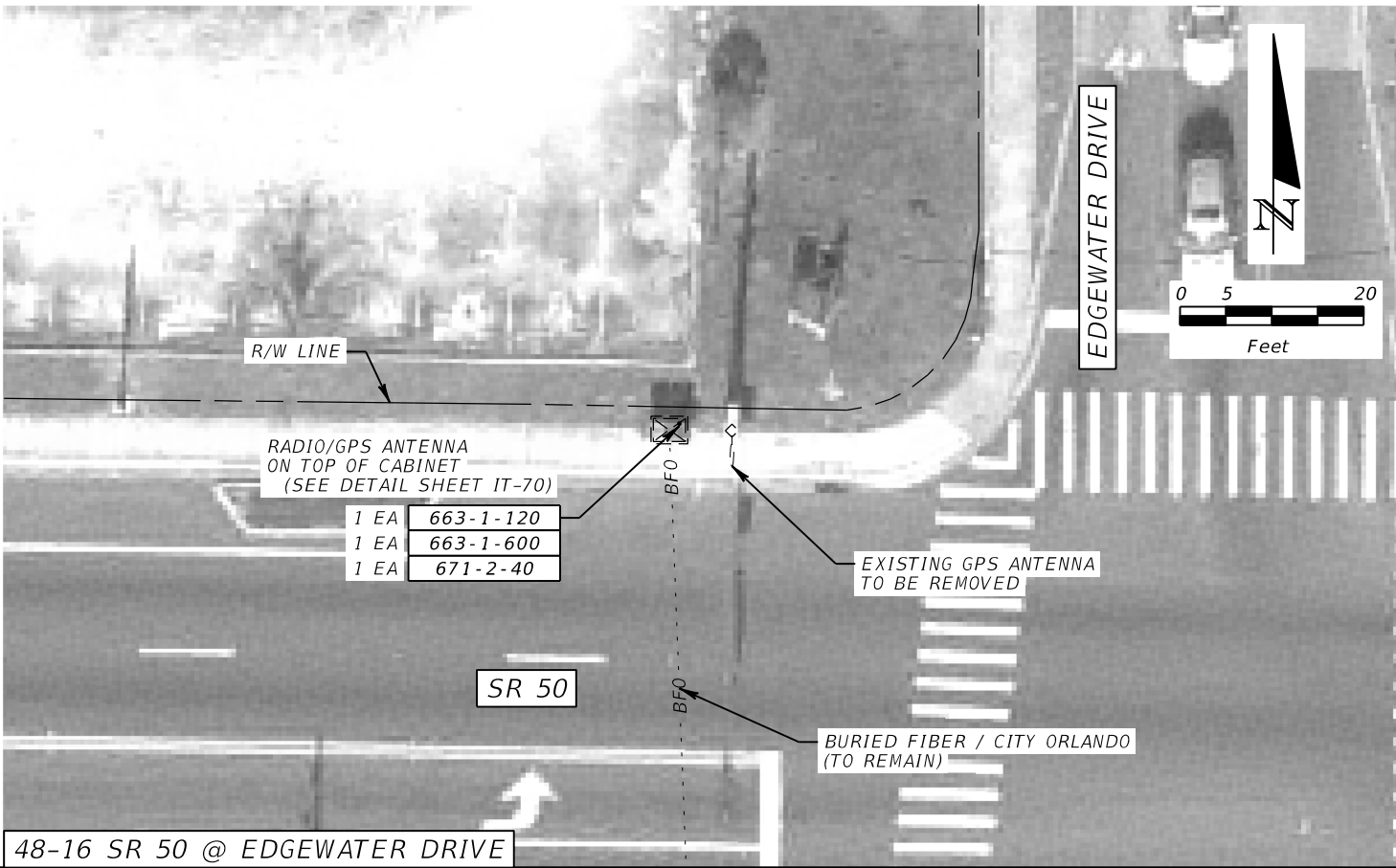
48-13 SR 50 @ US 441



48-14 SR 50 @ WESTMORELAND DRIVE



48-15 SR 50 @ PARRAMORE AVENUE



48-16 SR 50 @ EDGEWATER DRIVE

| REVISIONS | | | |
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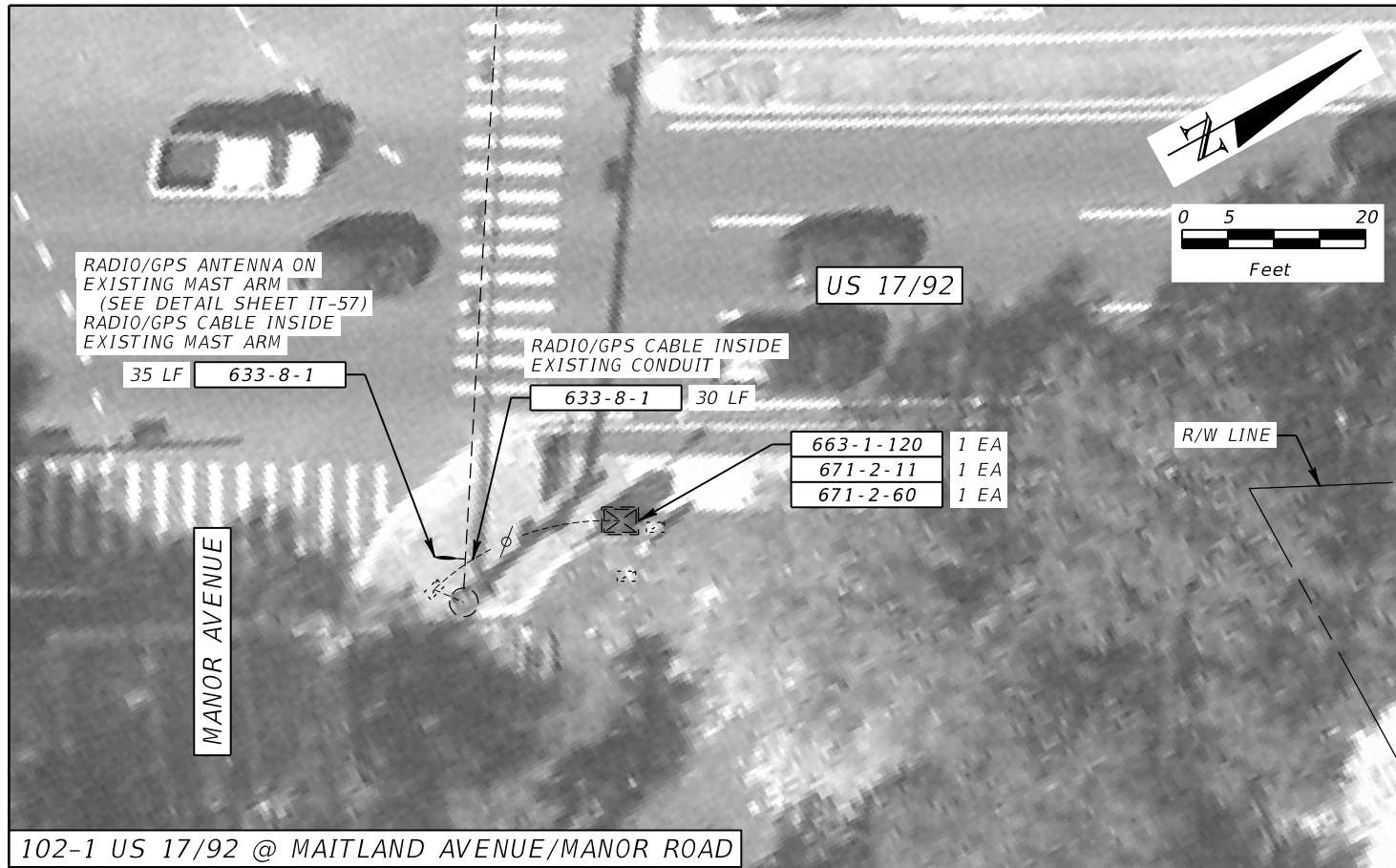
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| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

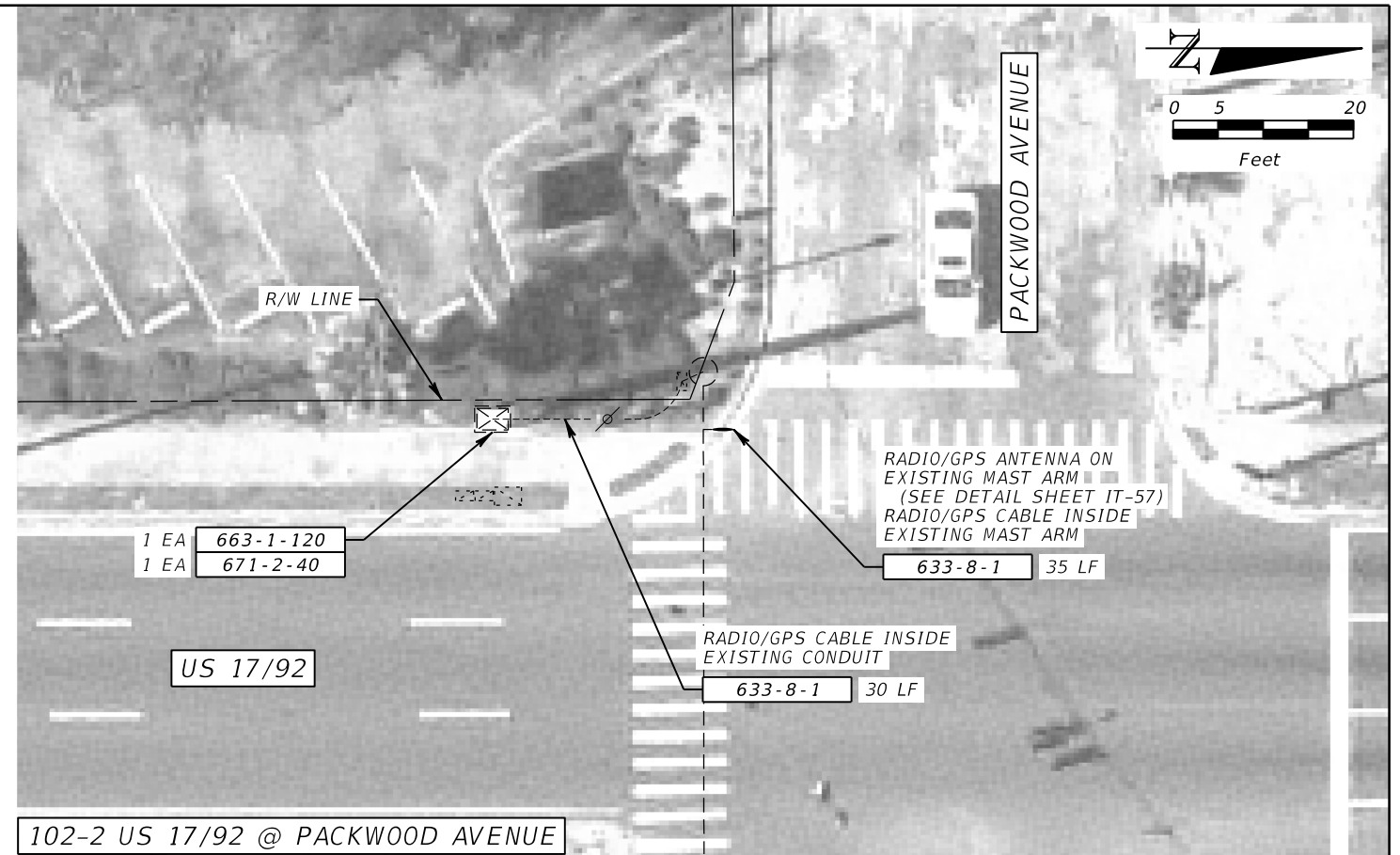
PLAN SHEET

SHEET NO.
IT-33

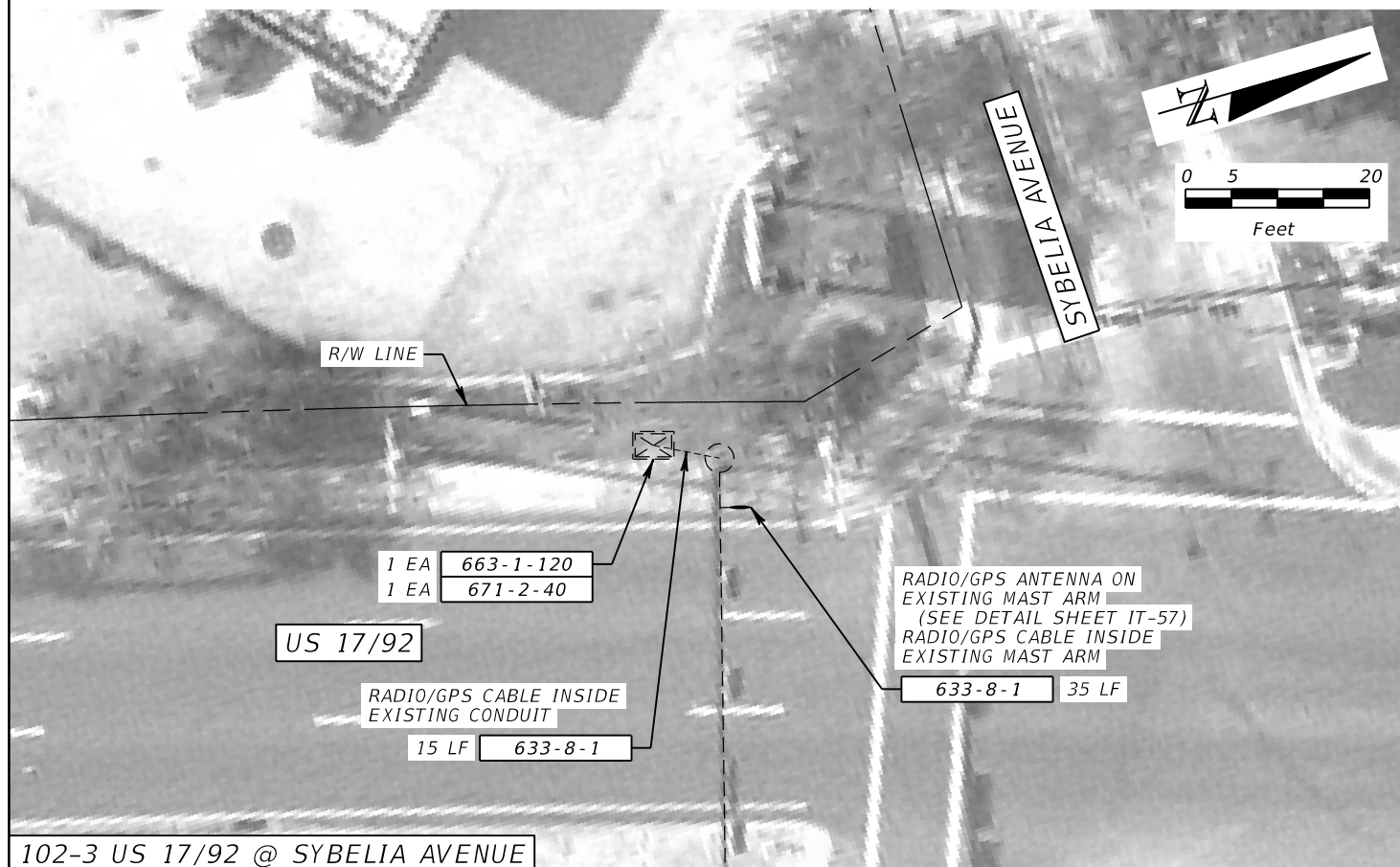
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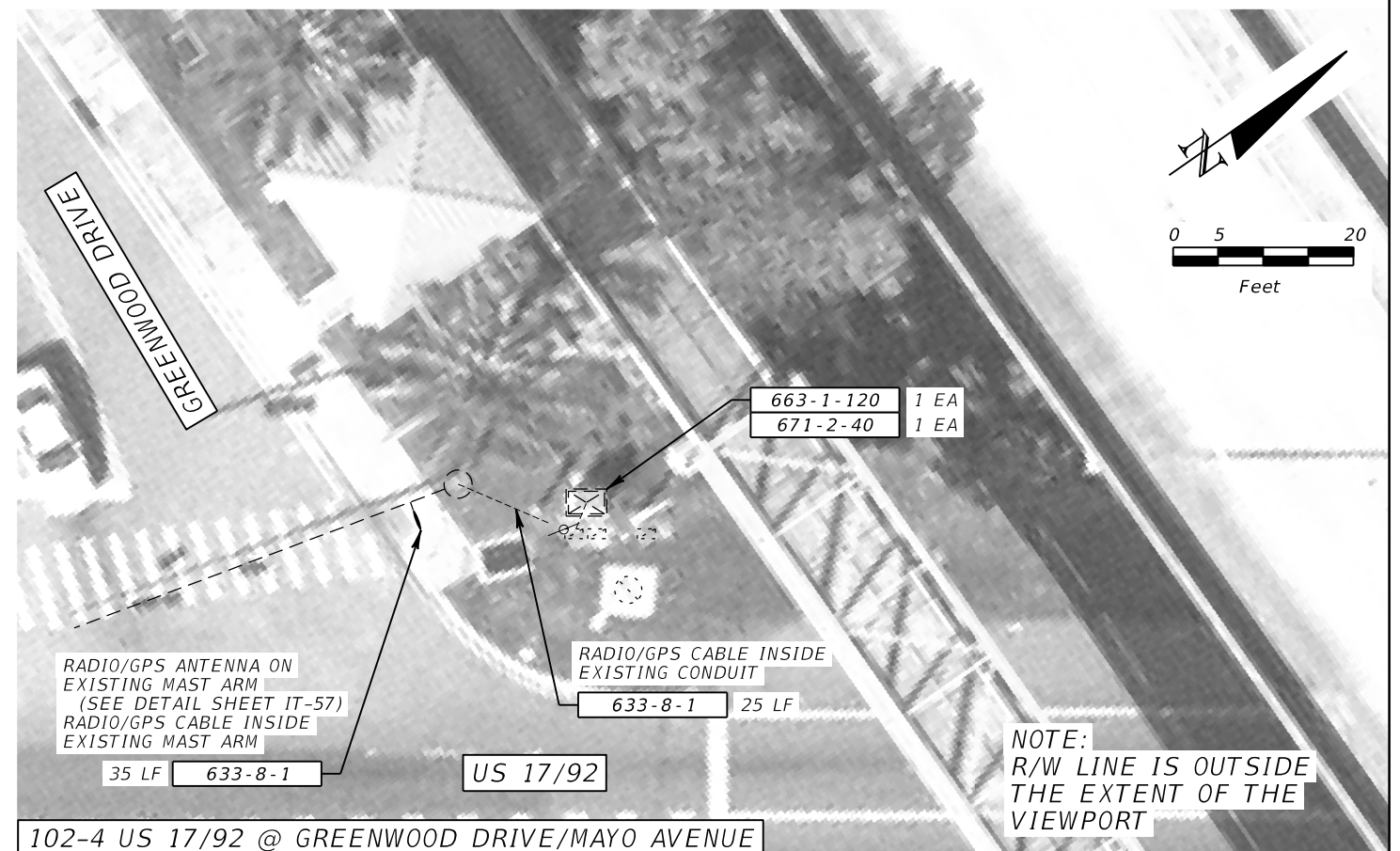
102-1 US 17/92 @ MAITLAND AVENUE/MANOR ROAD



102-2 US 17/92 @ PACKWOOD AVENUE



102-3 US 17/92 @ SYBELIA AVENUE



102-4 US 17/92 @ GREENWOOD DRIVE/MAYO AVENUE

| REVISIONS | | | |
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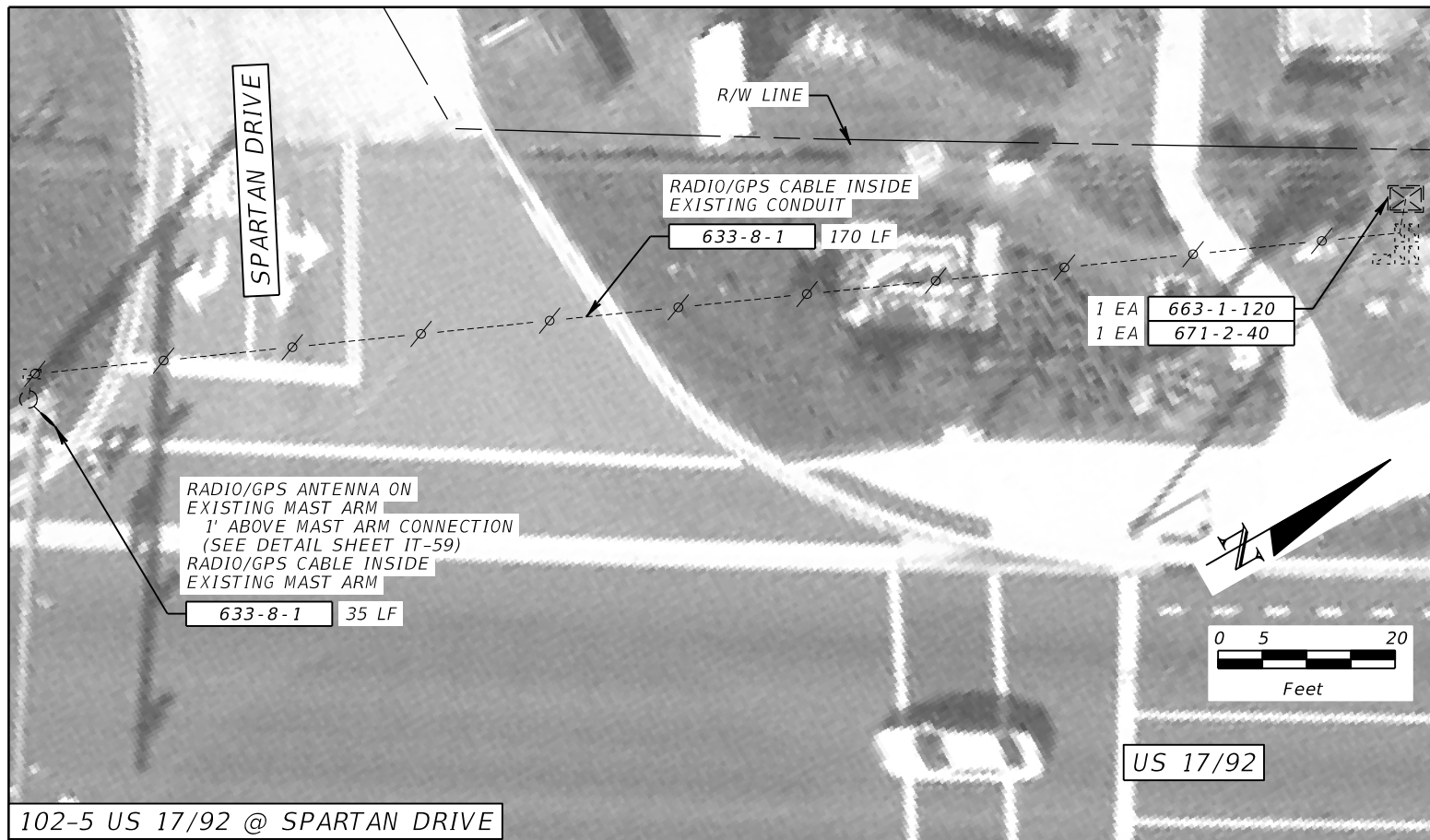
METRIC ENGINEERING, INC.
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

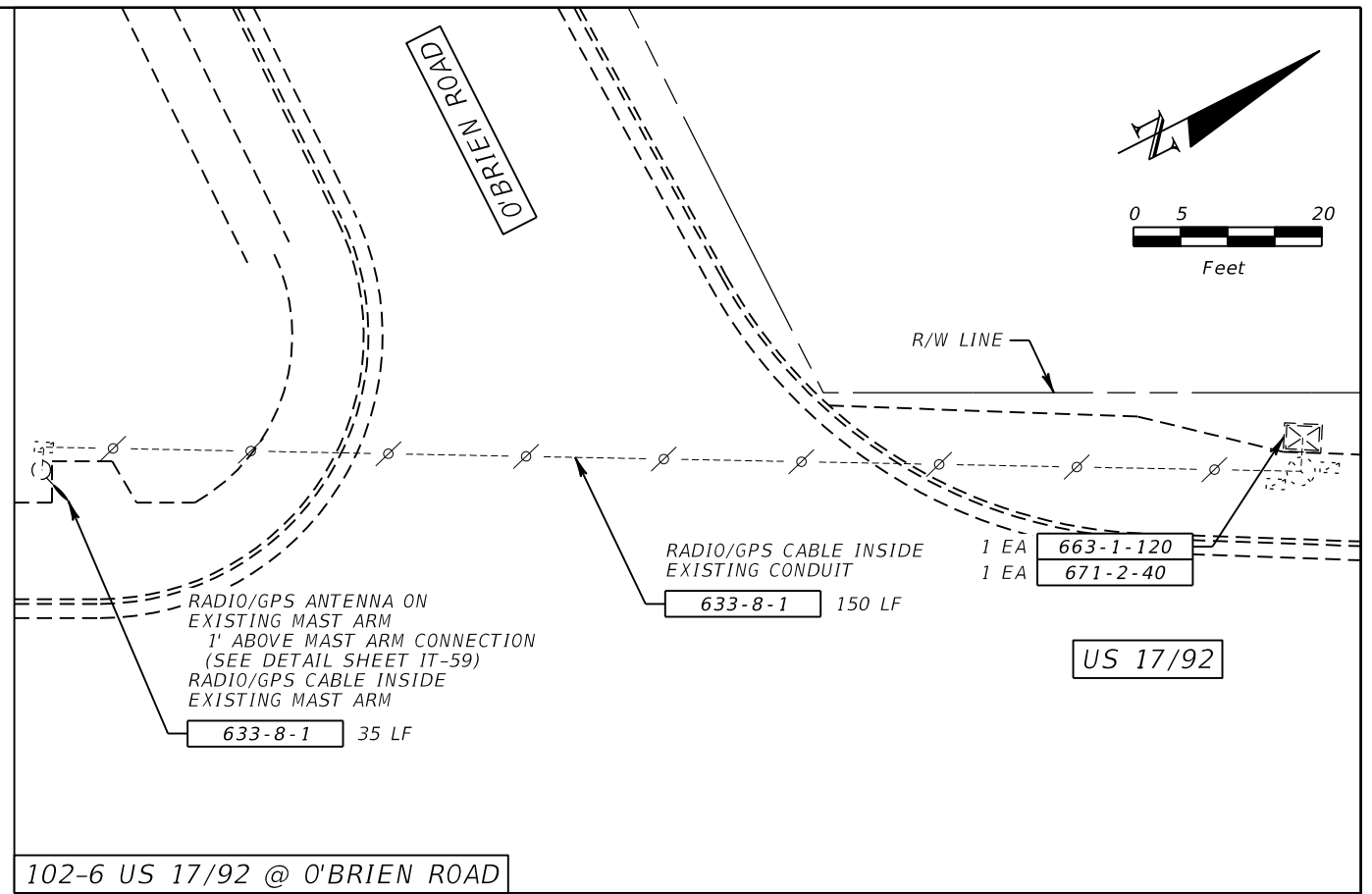
PLAN SHEET

SHEET NO.
IT-34

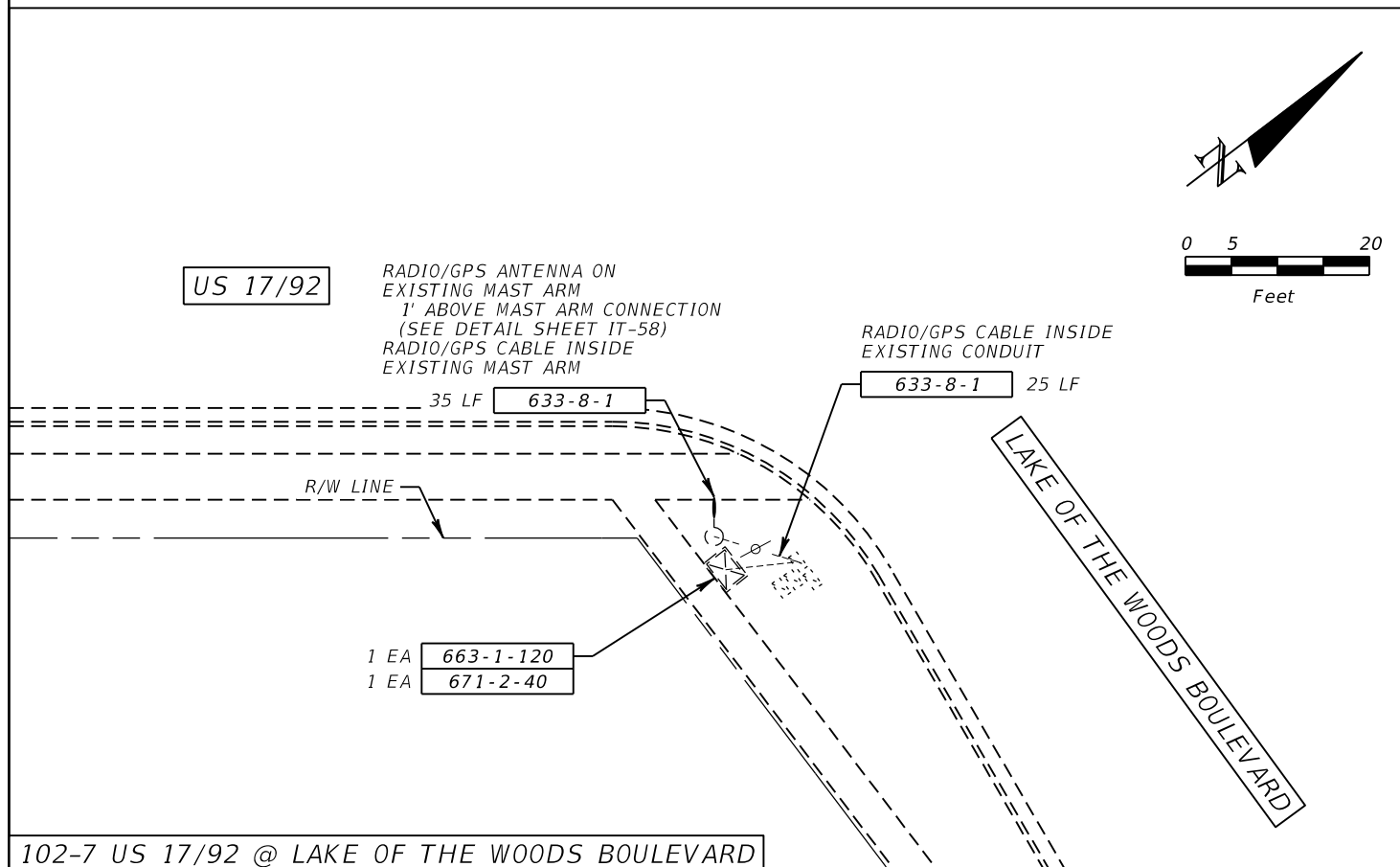
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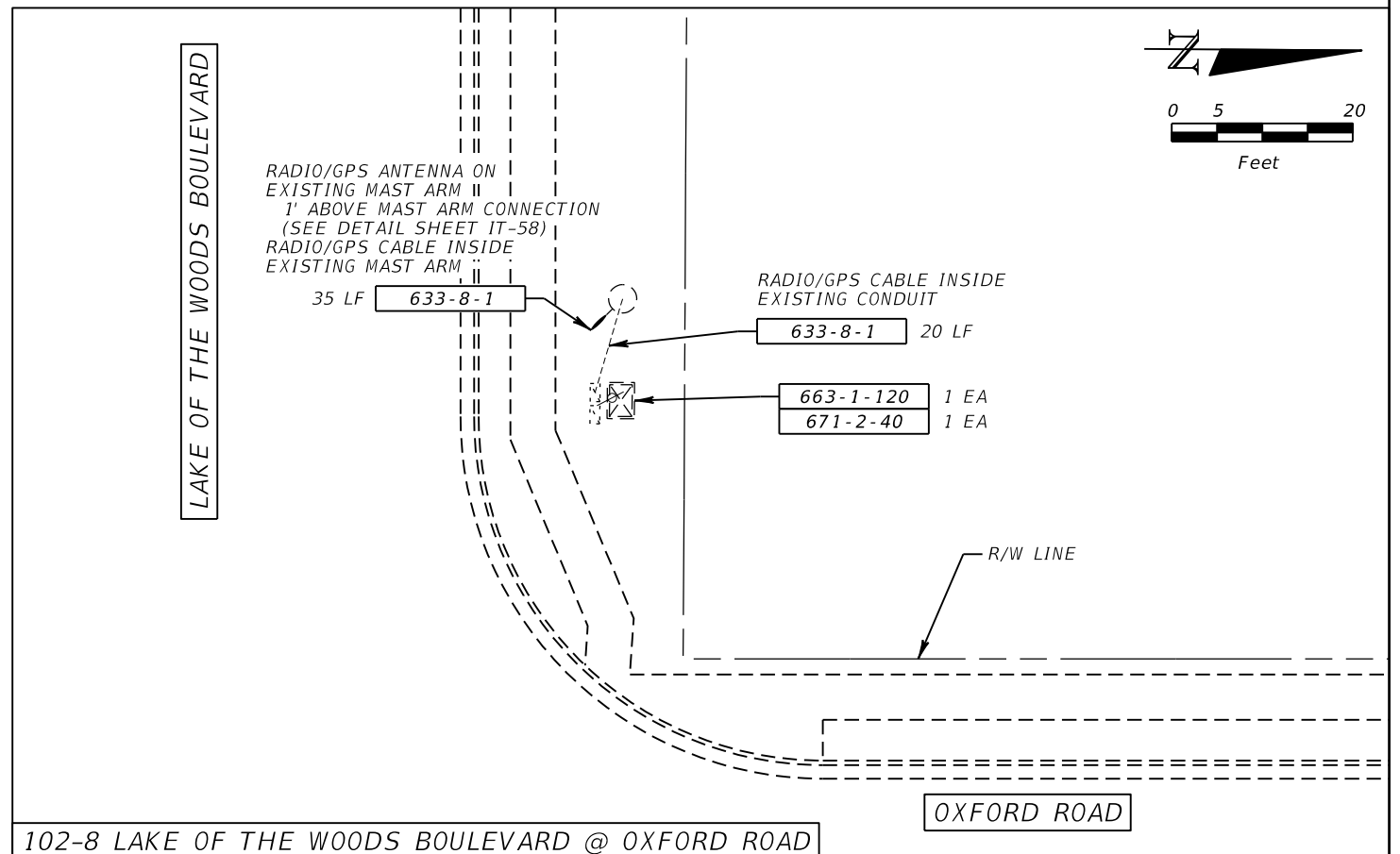
102-5 US 17/92 @ SPARTAN DRIVE



102-6 US 17/92 @ O'BRIEN ROAD



102-7 US 17/92 @ LAKE OF THE WOODS BOULEVARD



102-8 LAKE OF THE WOODS BOULEVARD @ OXFORD ROAD

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
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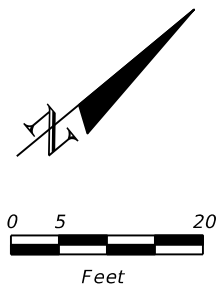
PLAN SHEET

SHEET NO.
IT-35

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RADIO/GPS ANTENNA ON
EXISTING MAST ARM
1' ABOVE MAST ARM CONNECTION
(SEE DETAIL SHEET IT-58)
RADIO/GPS CABLE INSIDE
EXISTING MAST ARM

OXFORD ROAD



FERNWOOD BOULEVARD

35 LF 633-8-1

RADIO/GPS CABLE INSIDE
EXISTING CONDUIT

30 LF 633-8-1

663-1-120 1 EA
671-2-40 1 EA

R/W LINE

102-9 FERNWOOD BOULEVARD @ OXFORD ROAD

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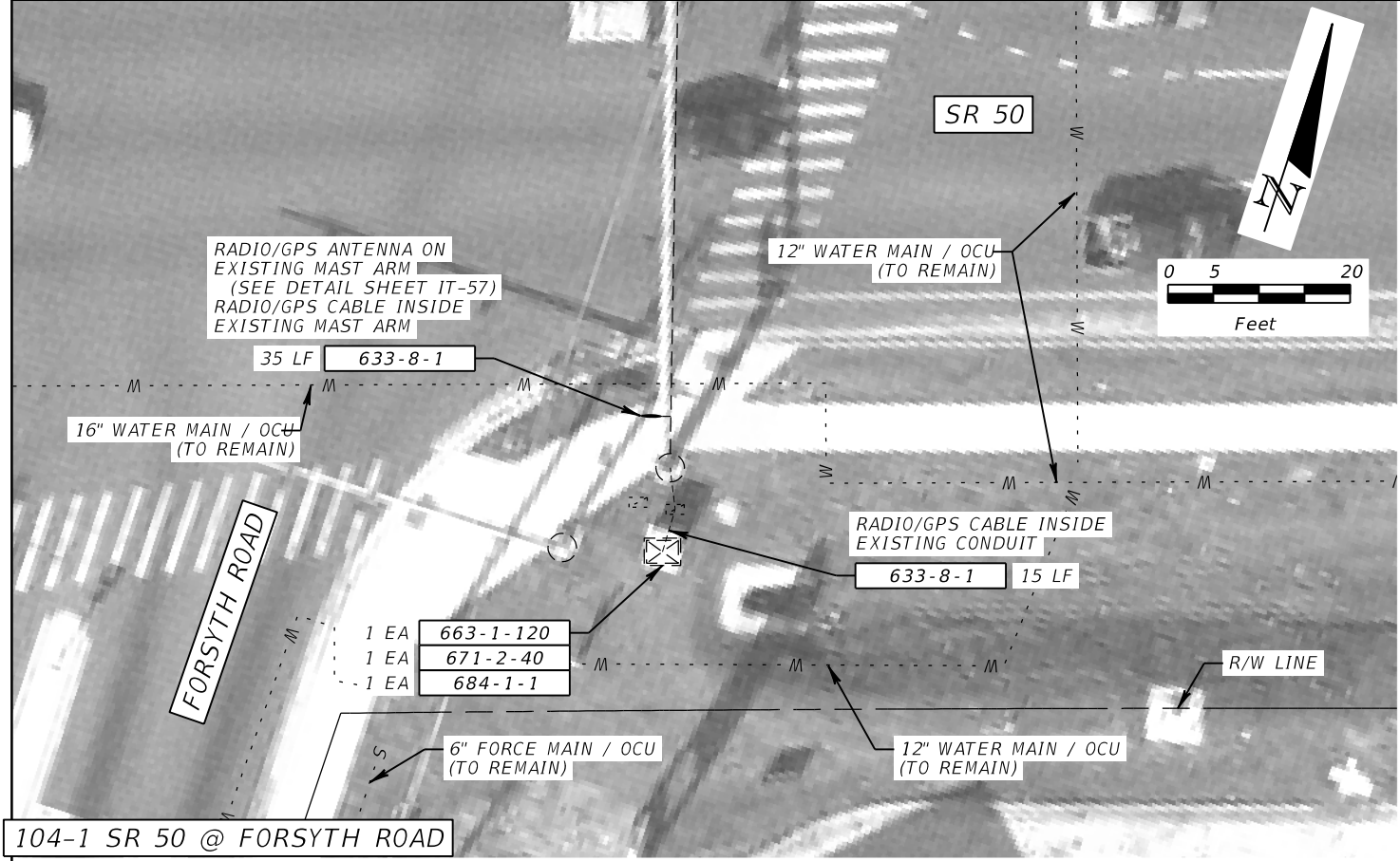
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
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| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

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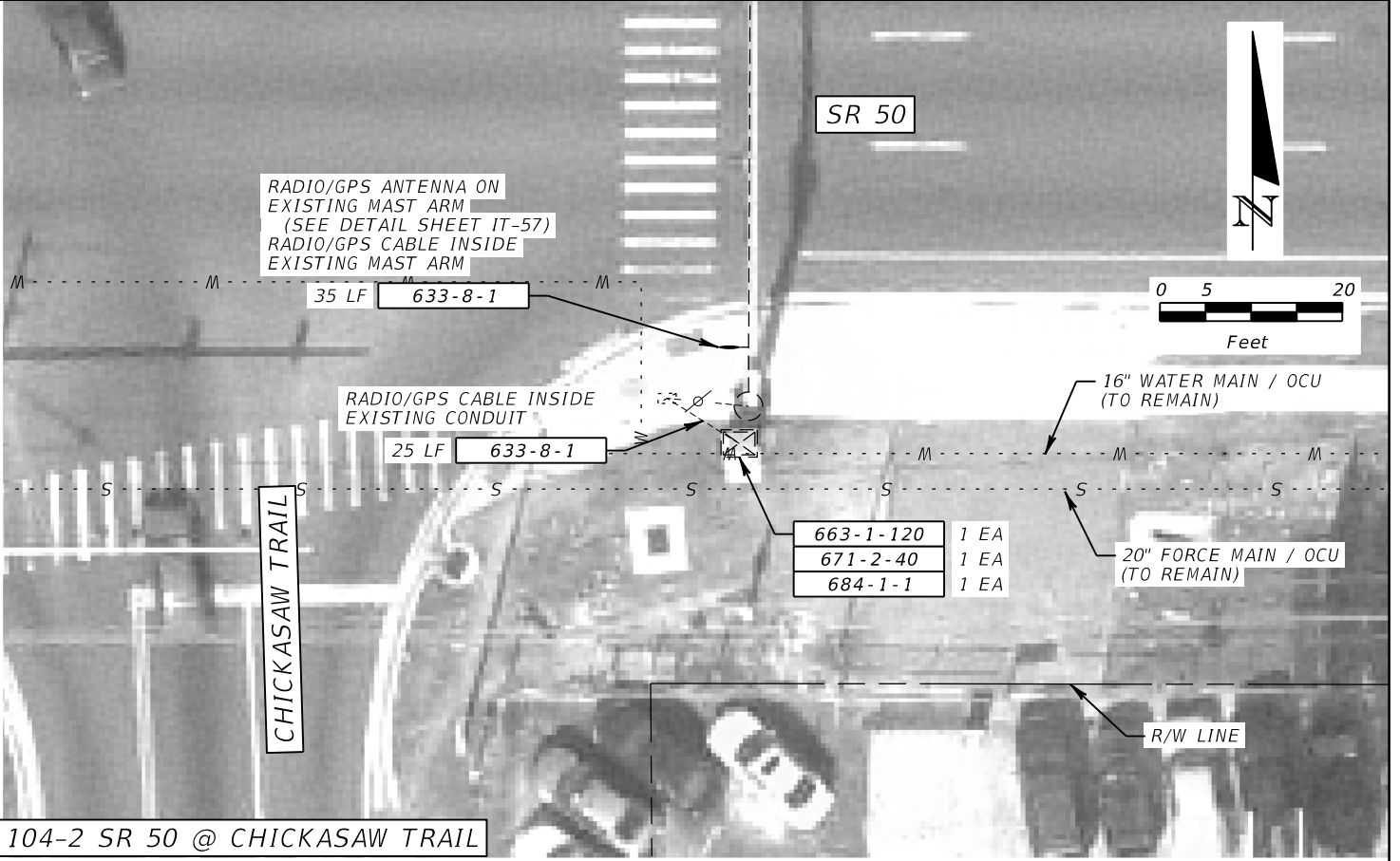
SHEET
NO.

IT-36

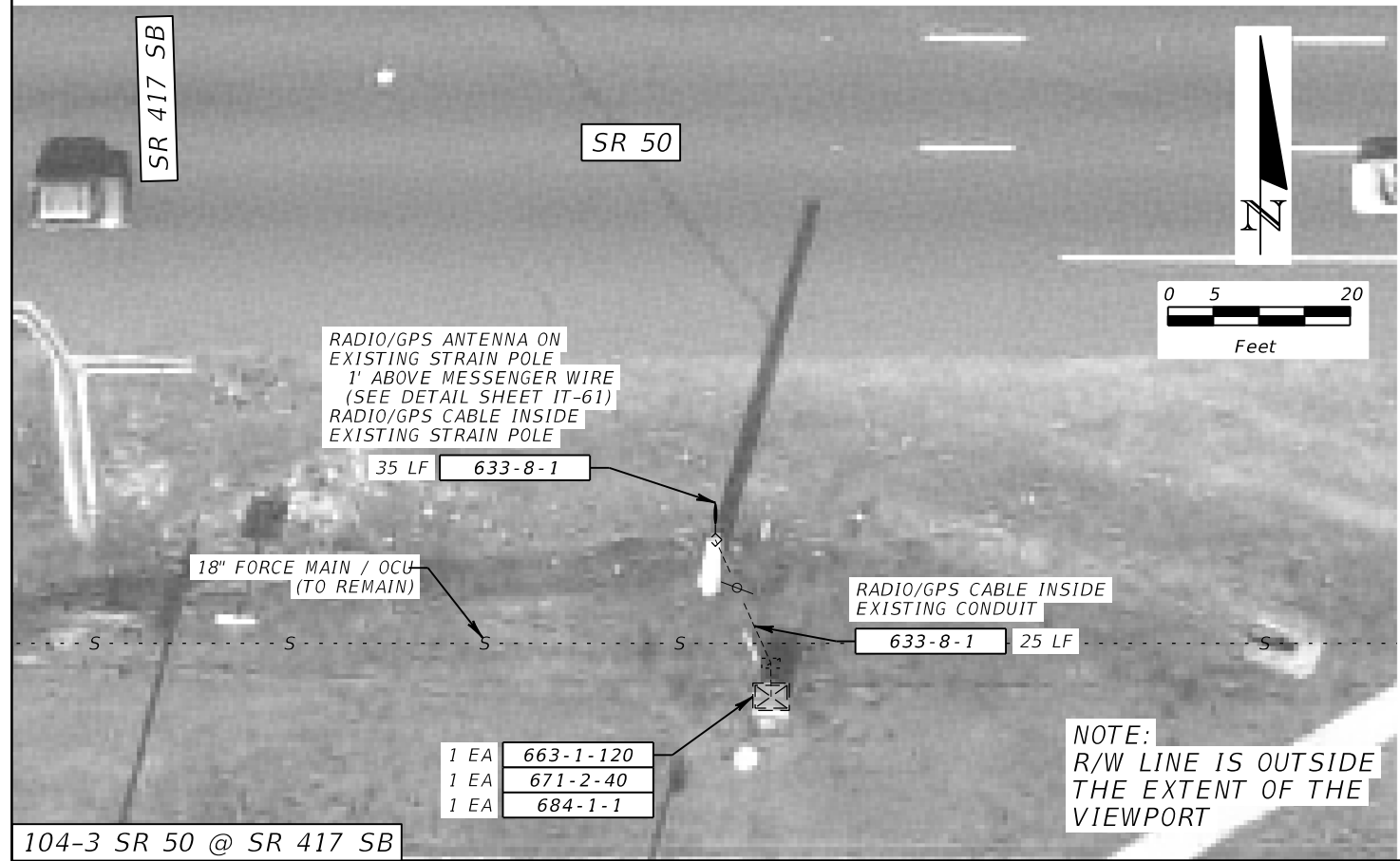
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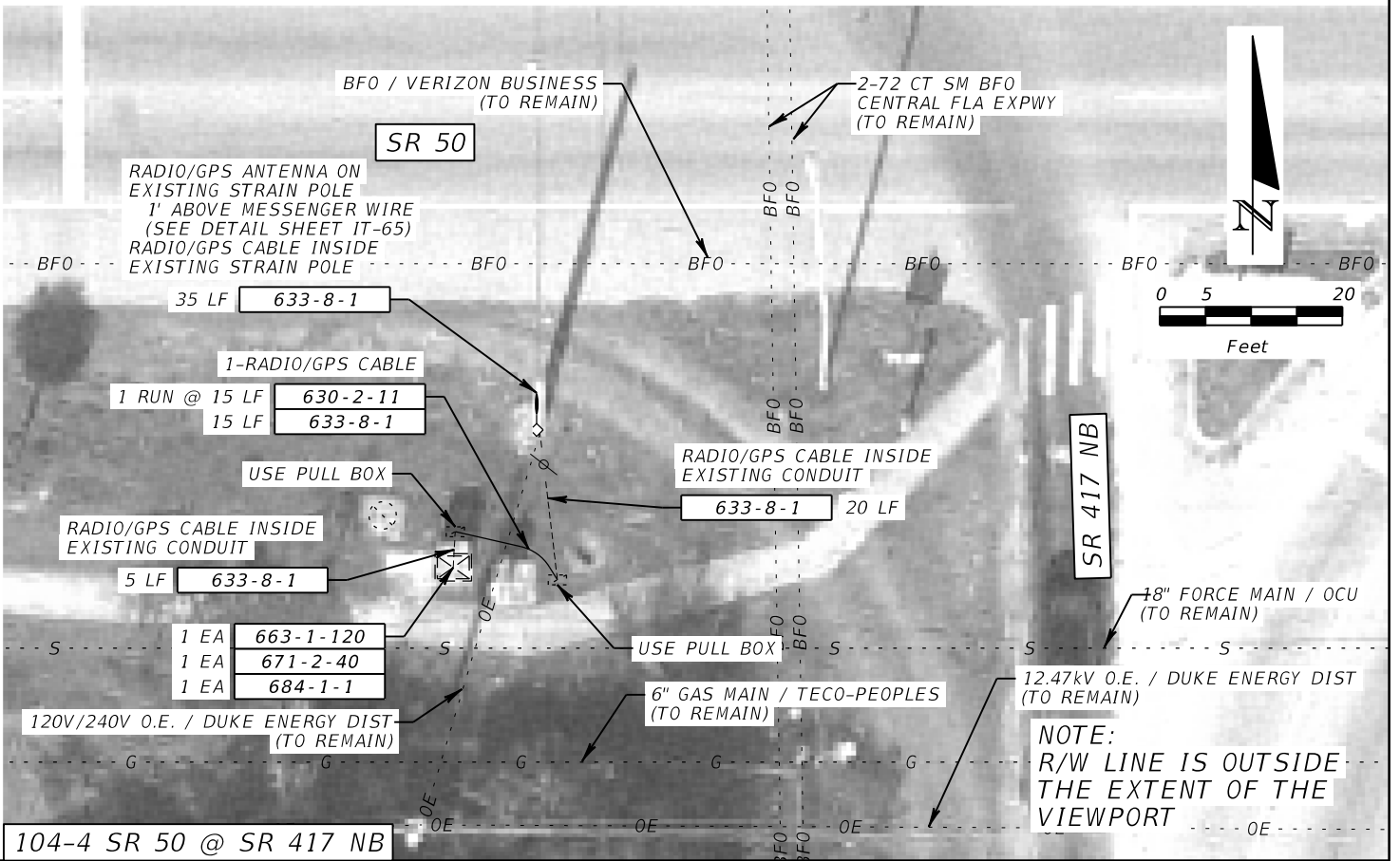
104-1 SR 50 @ FORSYTH ROAD



104-2 SR 50 @ CHICKASAW TRAIL



104-3 SR 50 @ SR 417 SB



104-4 SR 50 @ SR 417 NB

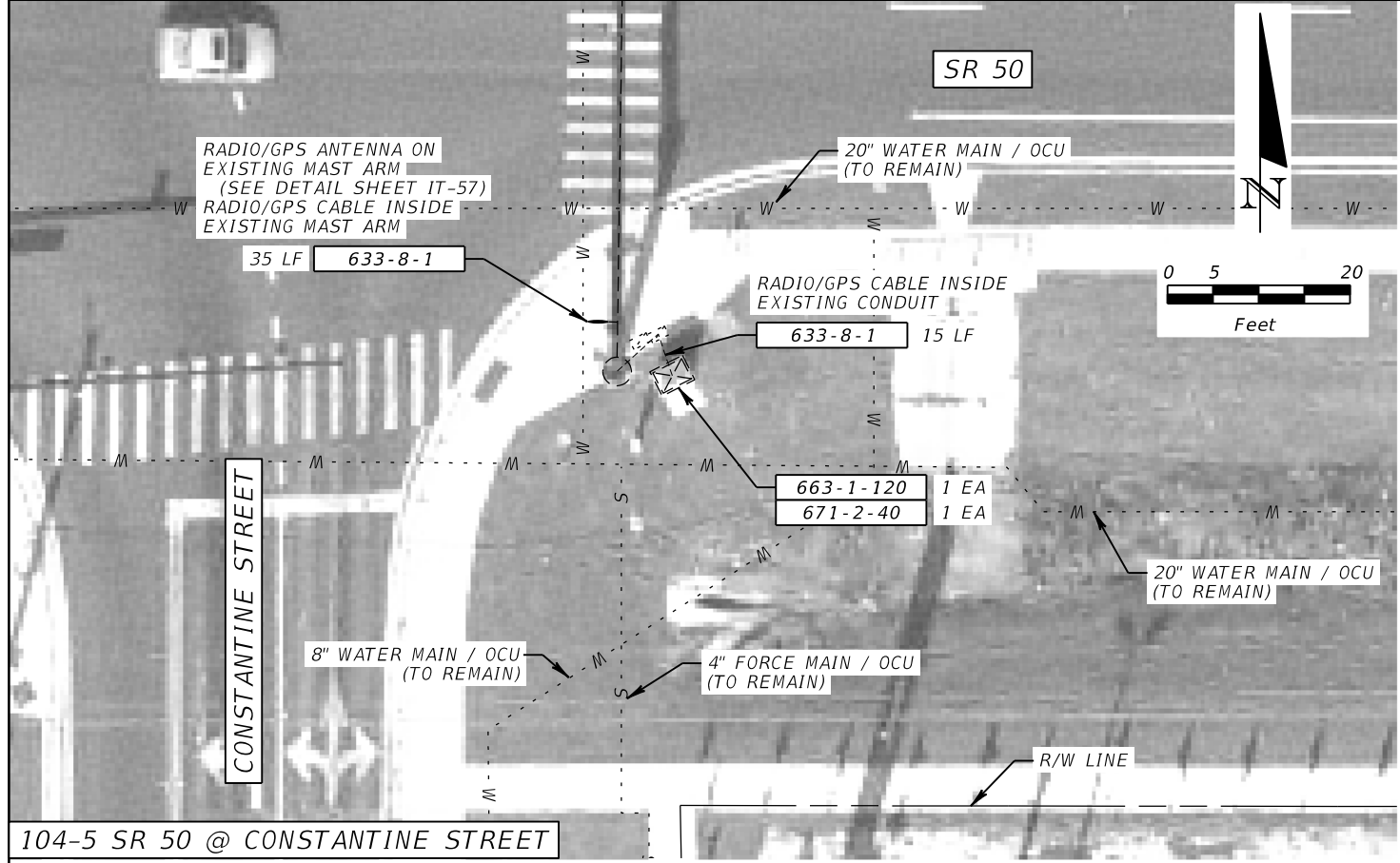
| REVISIONS | | | |
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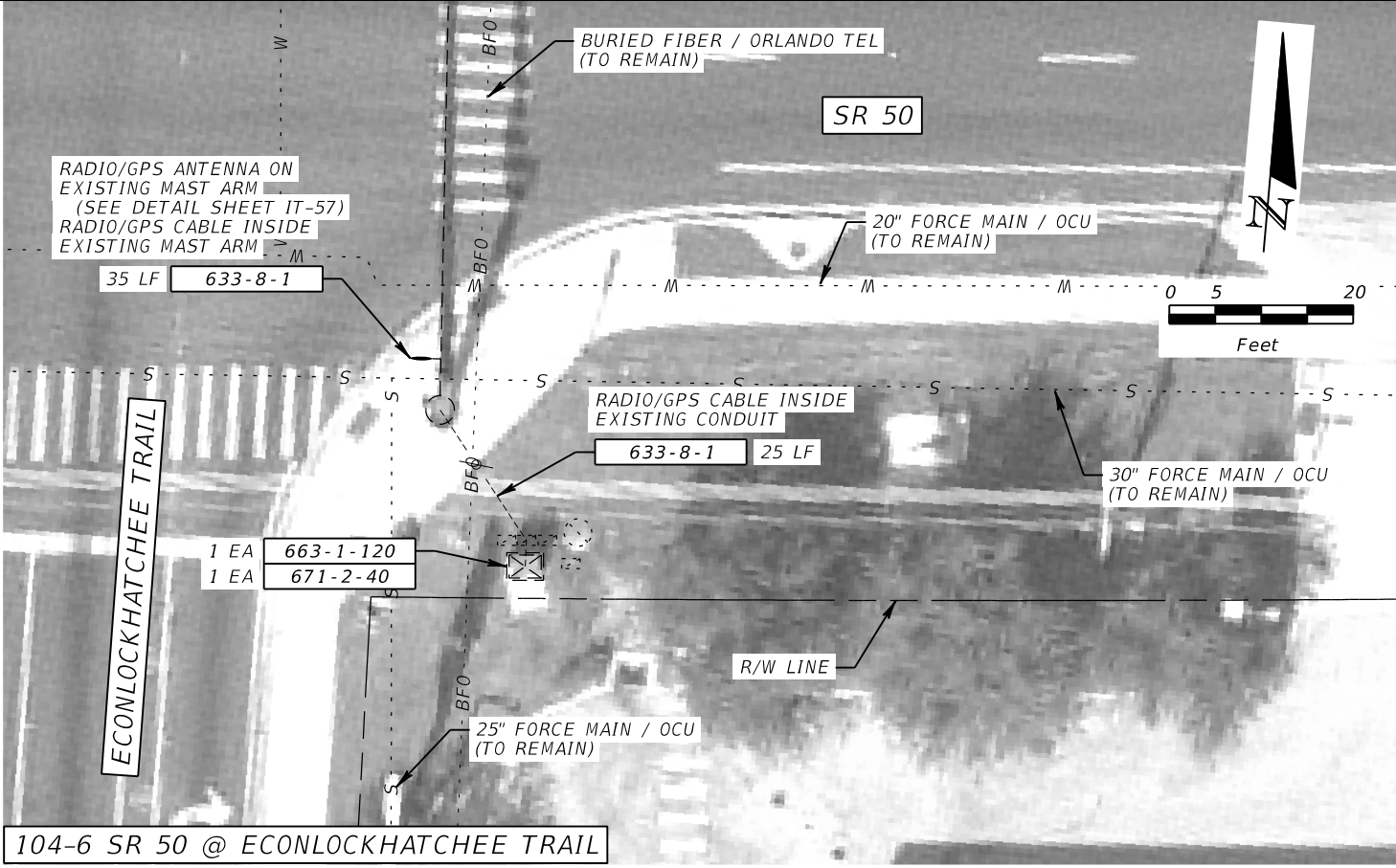
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| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

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| PLAN SHEET | | SHEET NO. IT-37 |
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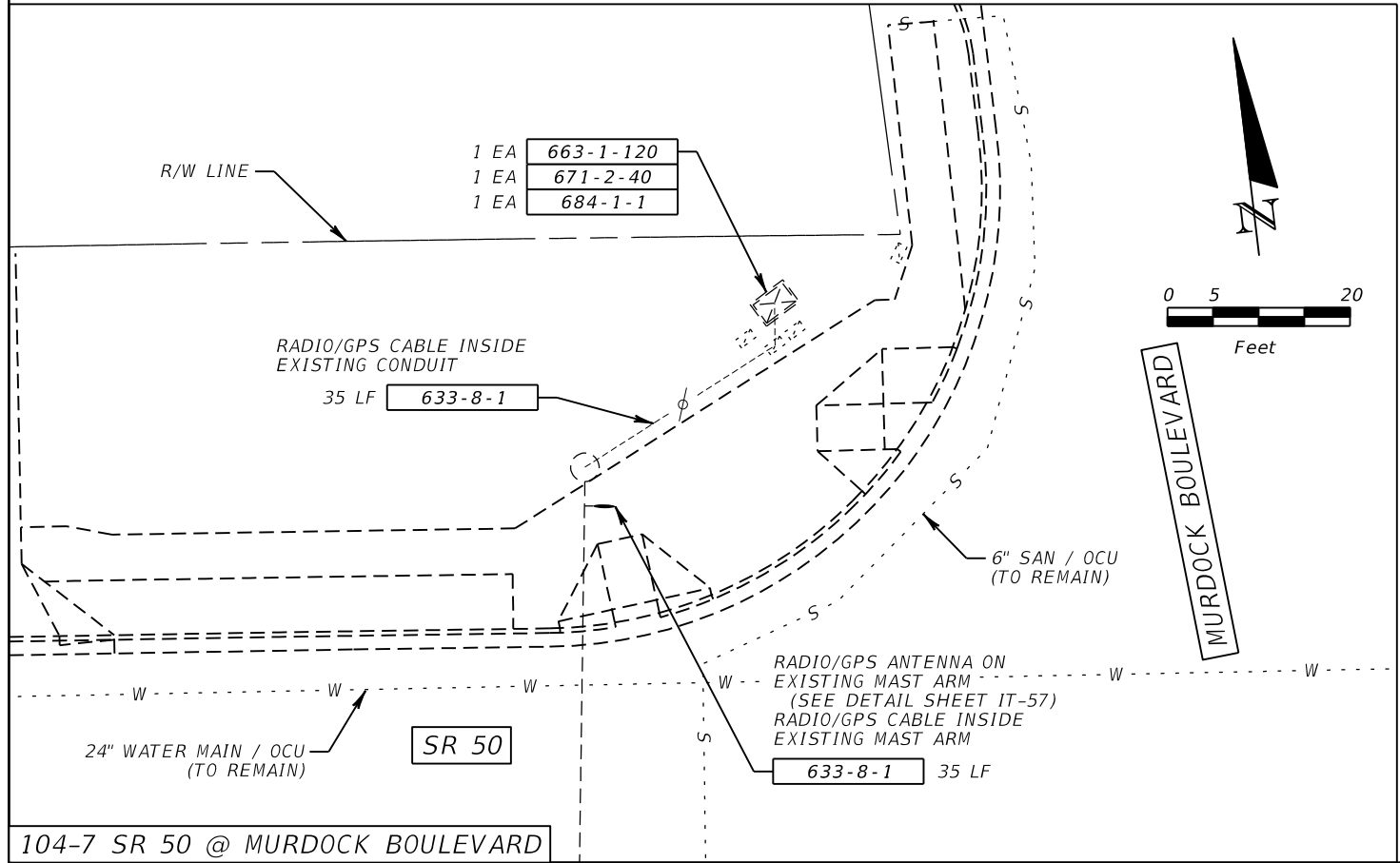
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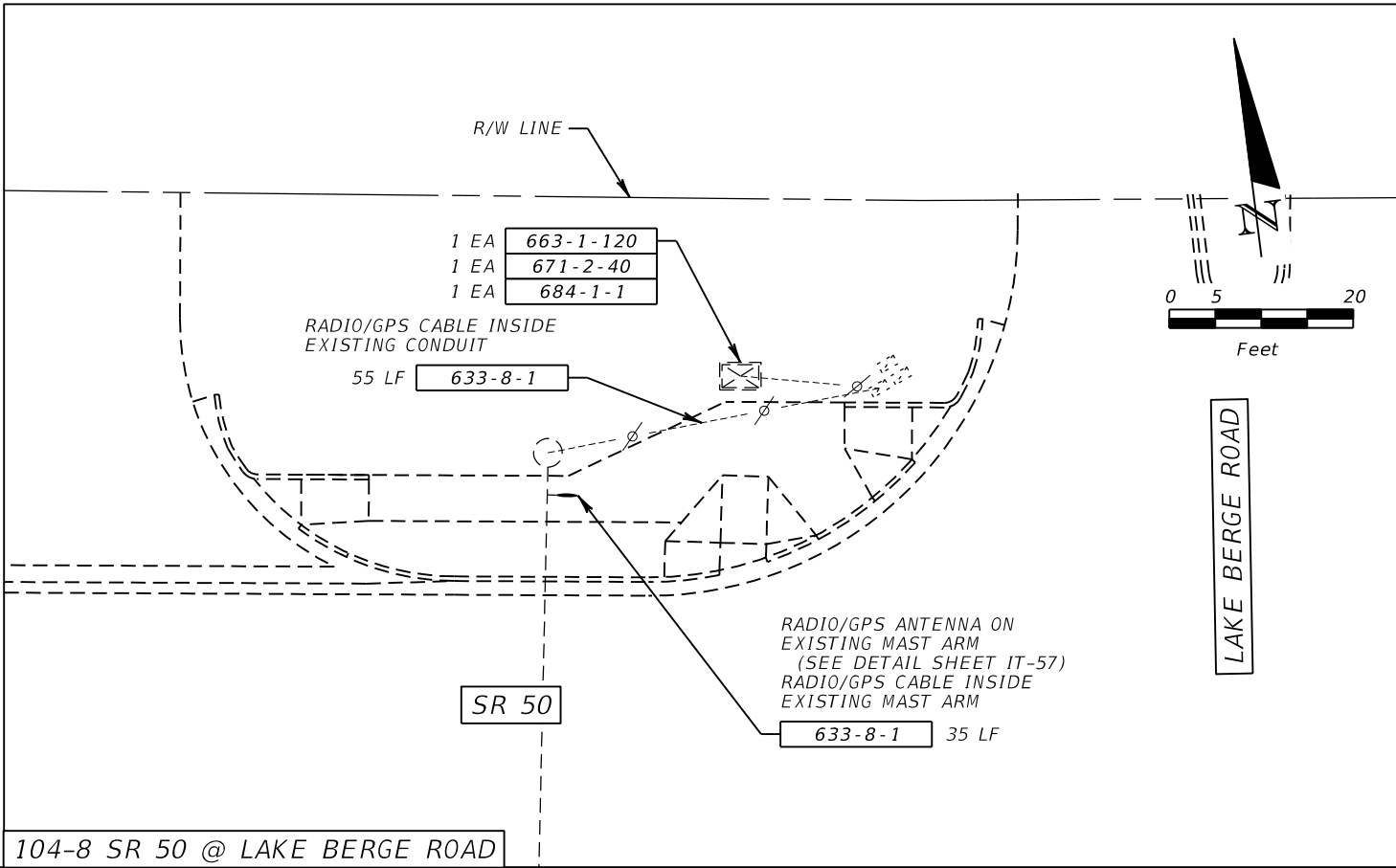
104-5 SR 50 @ CONSTANTINE STREET



104-6 SR 50 @ ECONLOCKHATCHEE TRAIL



104-7 SR 50 @ MURDOCK BOULEVARD



104-8 SR 50 @ LAKE BERGE ROAD

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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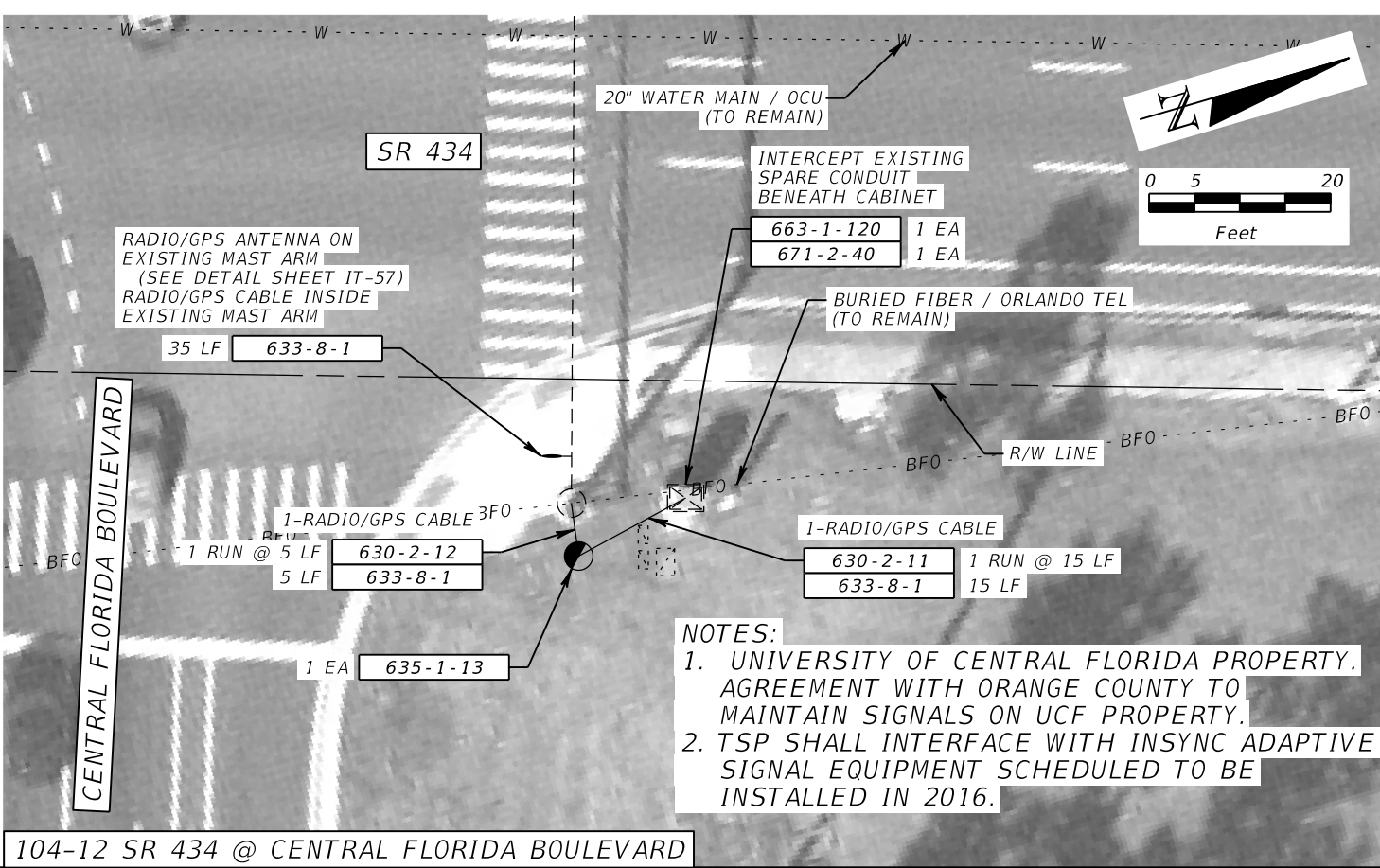
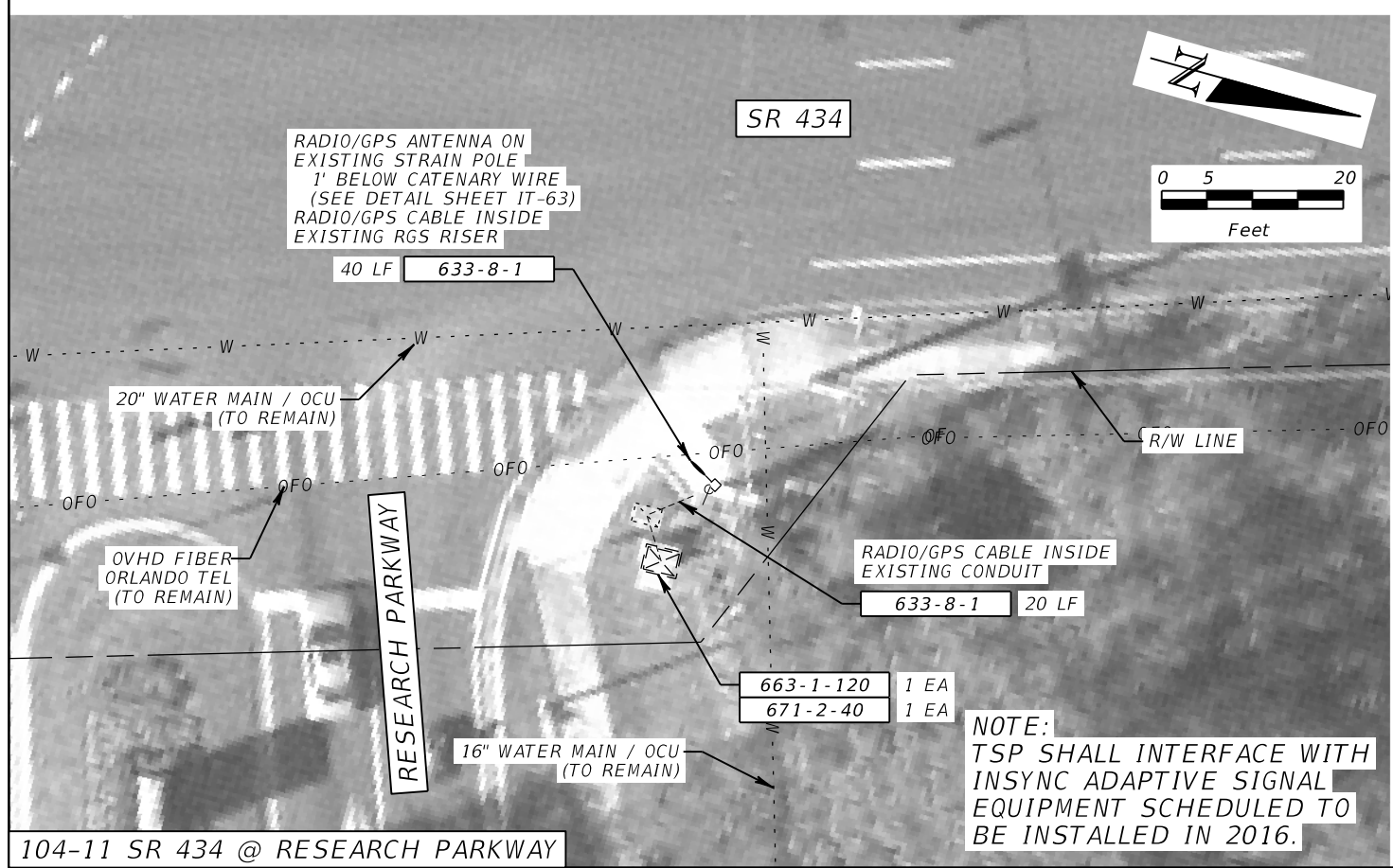
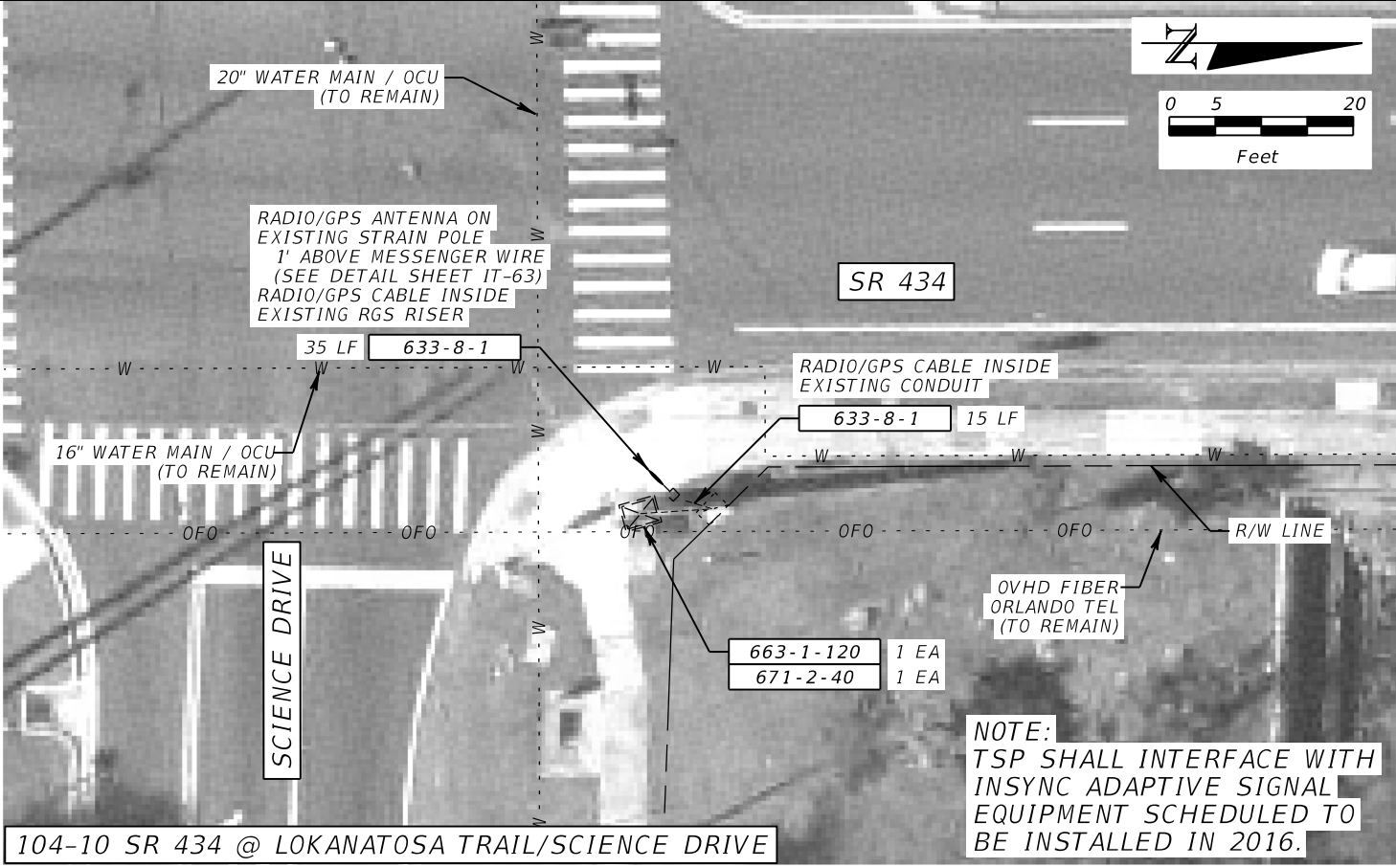
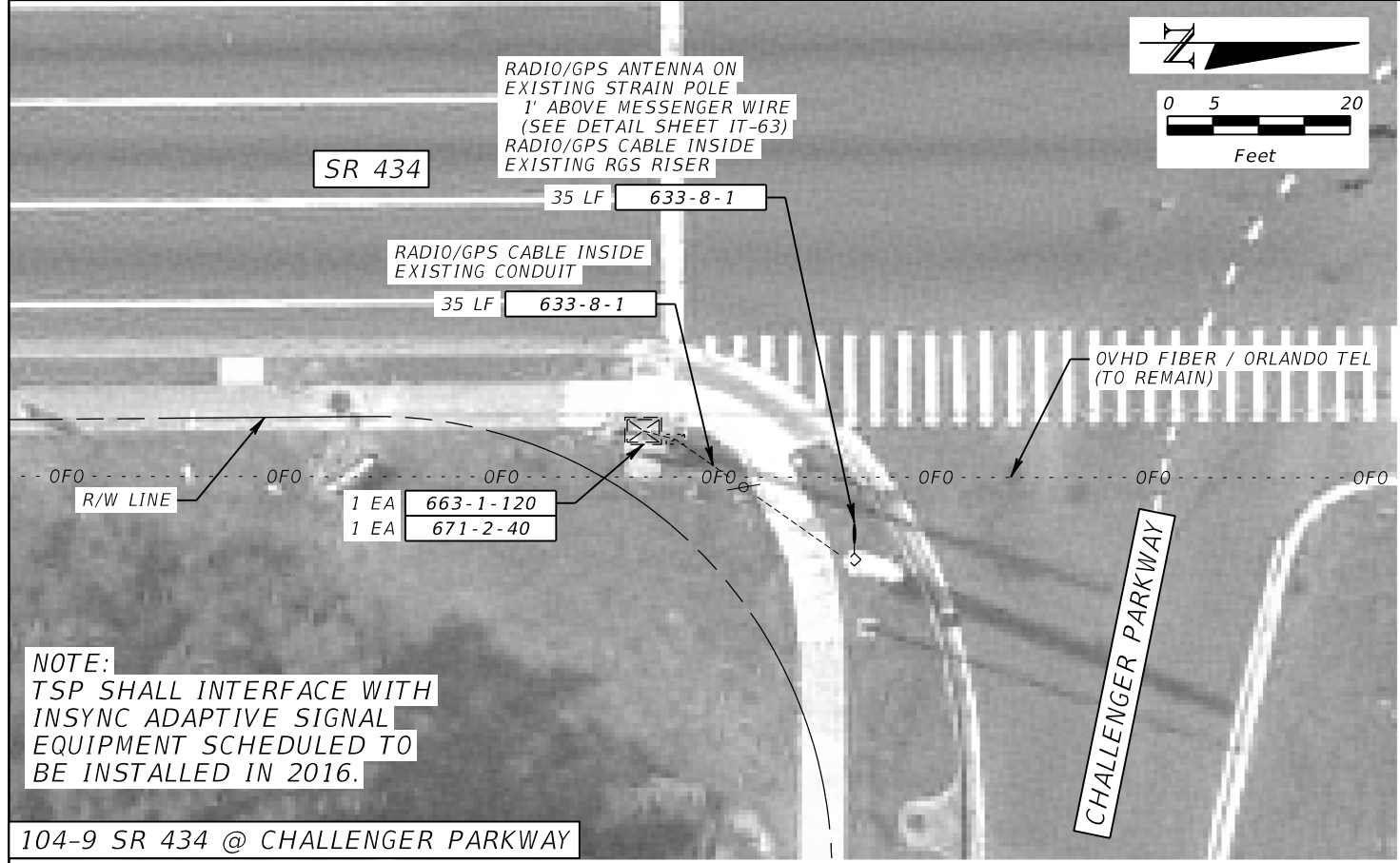
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PLAN SHEET

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IT-38

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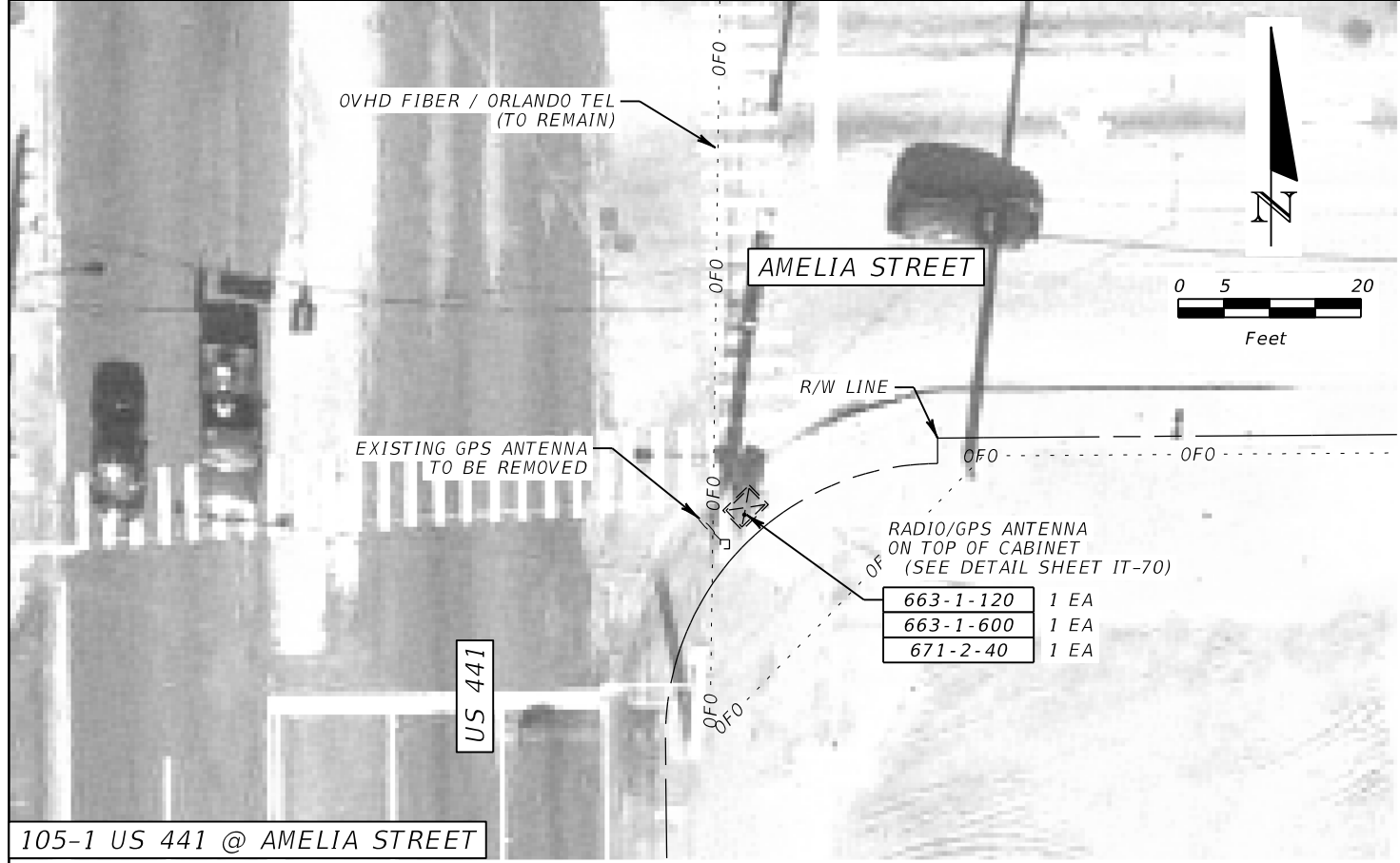
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

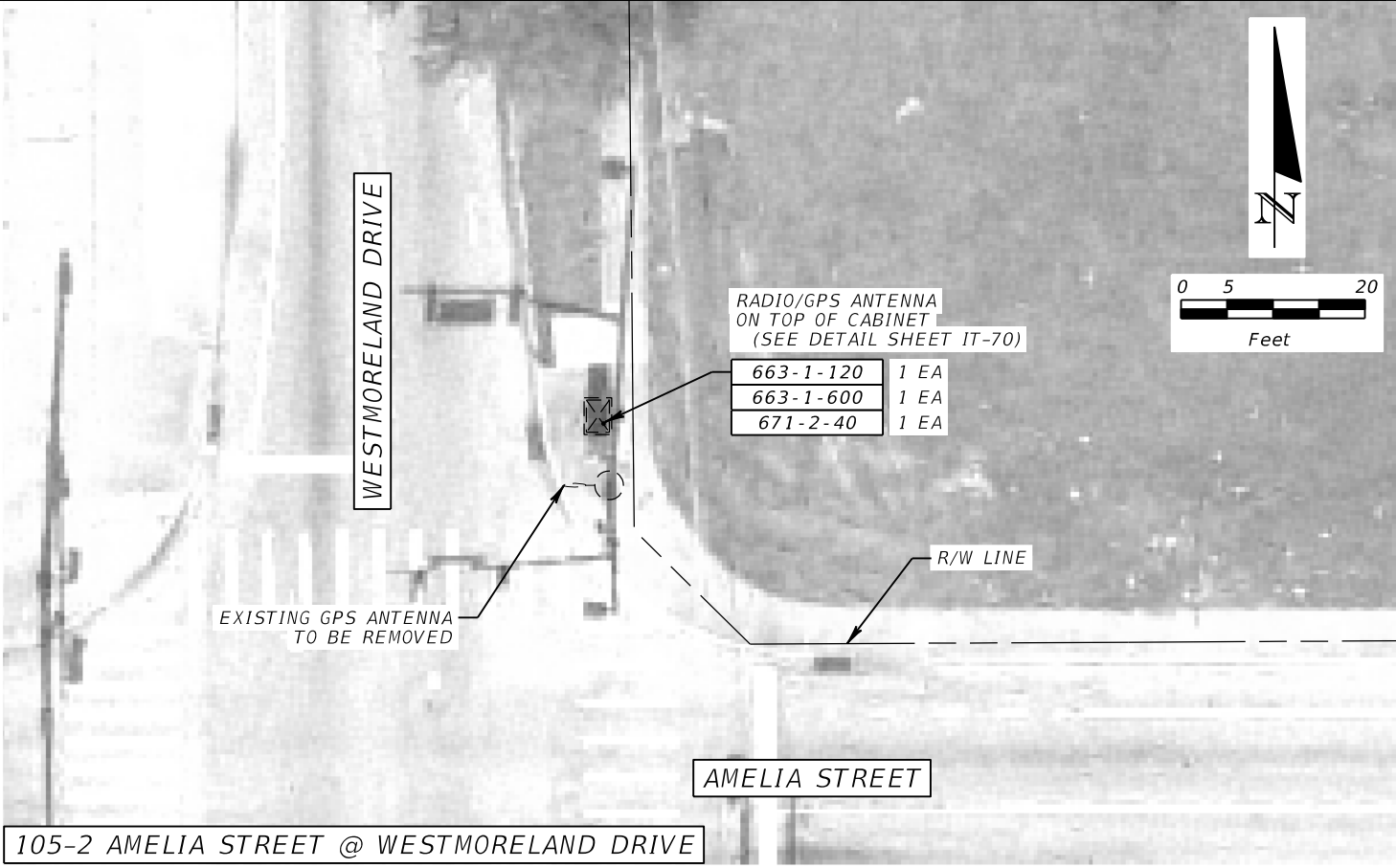
PLAN SHEET

SHEET NO.
IT-39

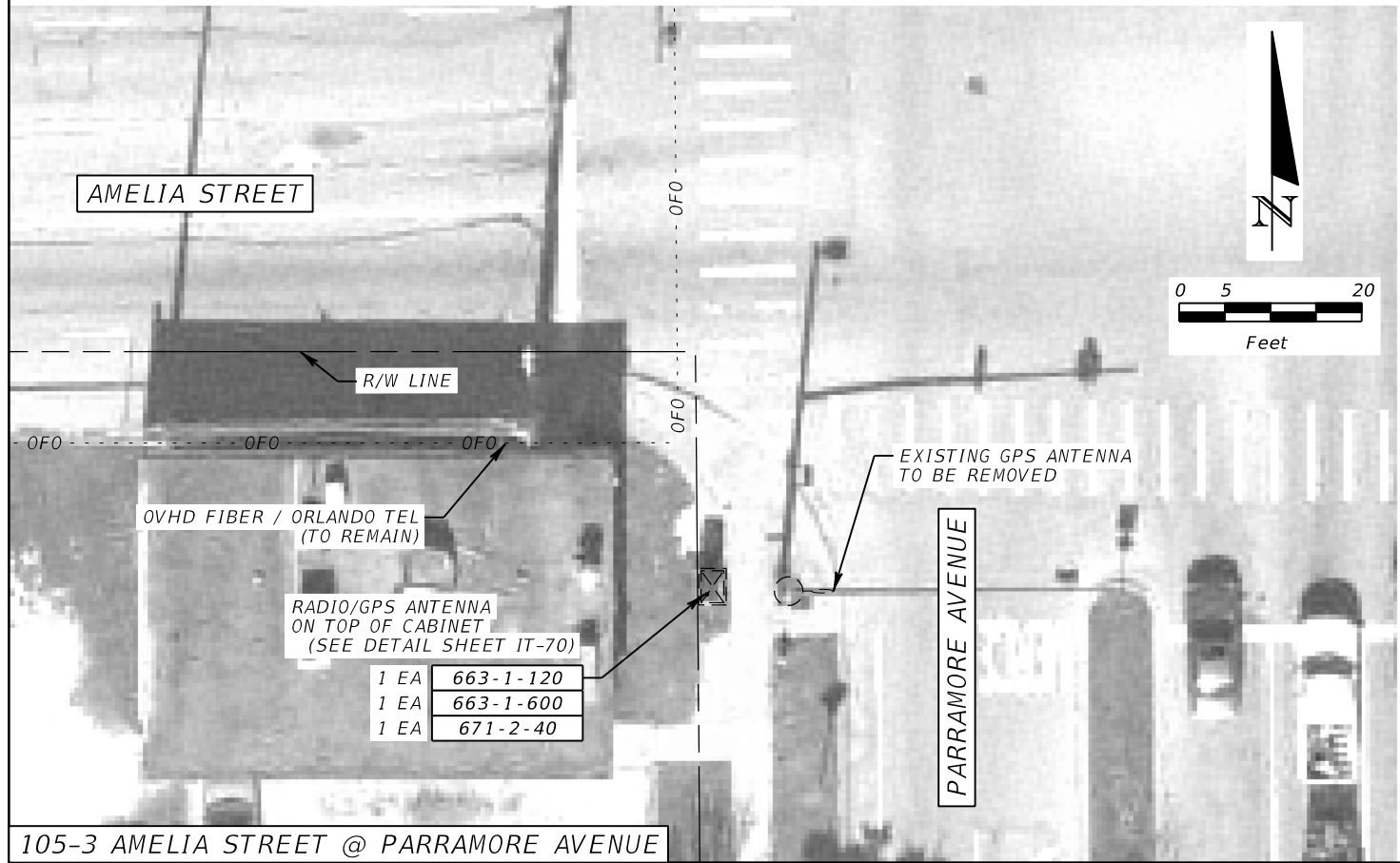
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



105-1 US 441 @ AMELIA STREET



105-2 AMELIA STREET @ WESTMORELAND DRIVE



105-3 AMELIA STREET @ PARRAMORE AVENUE

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| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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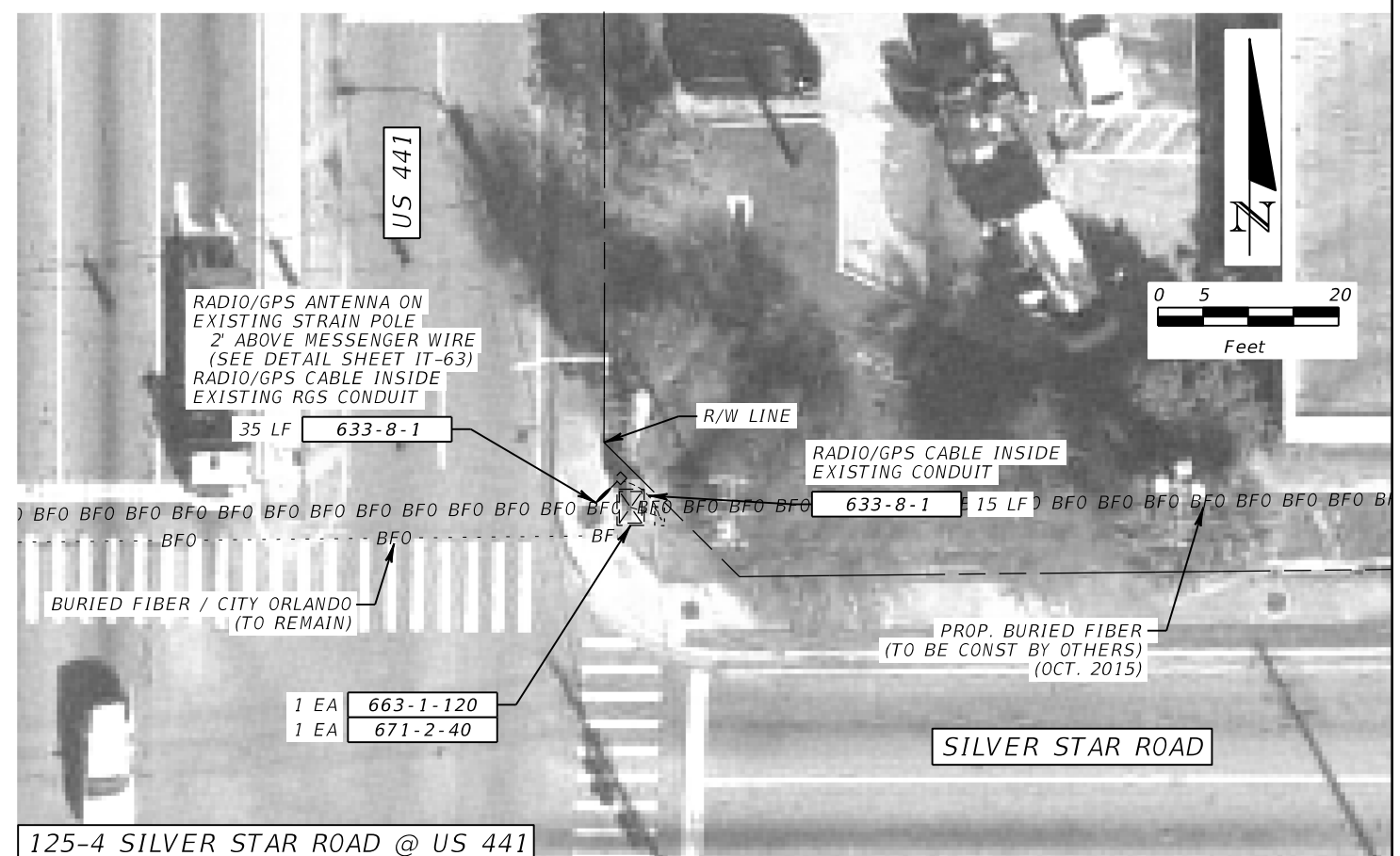
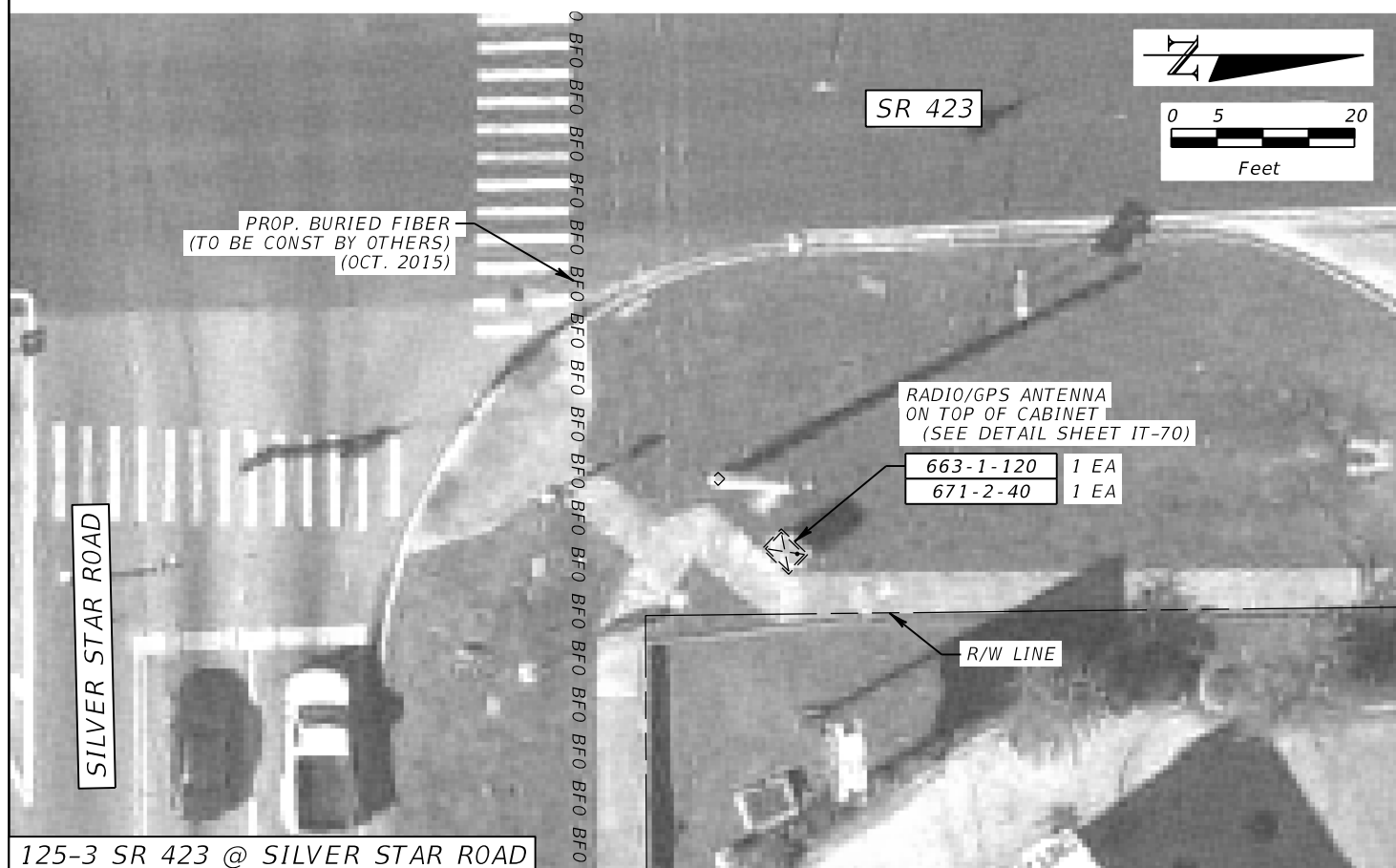
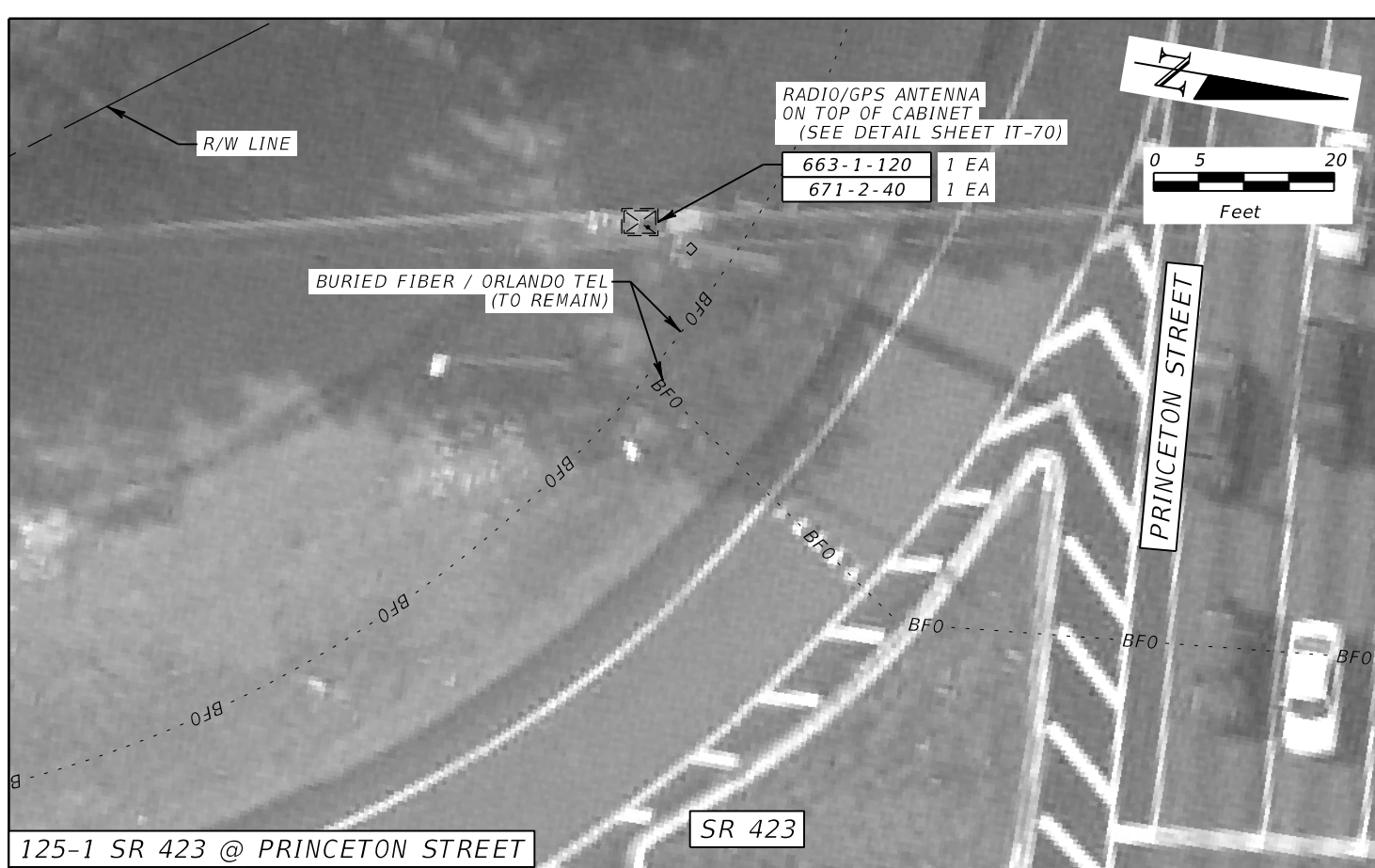
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| | | |
|--|--------------------|----------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-40

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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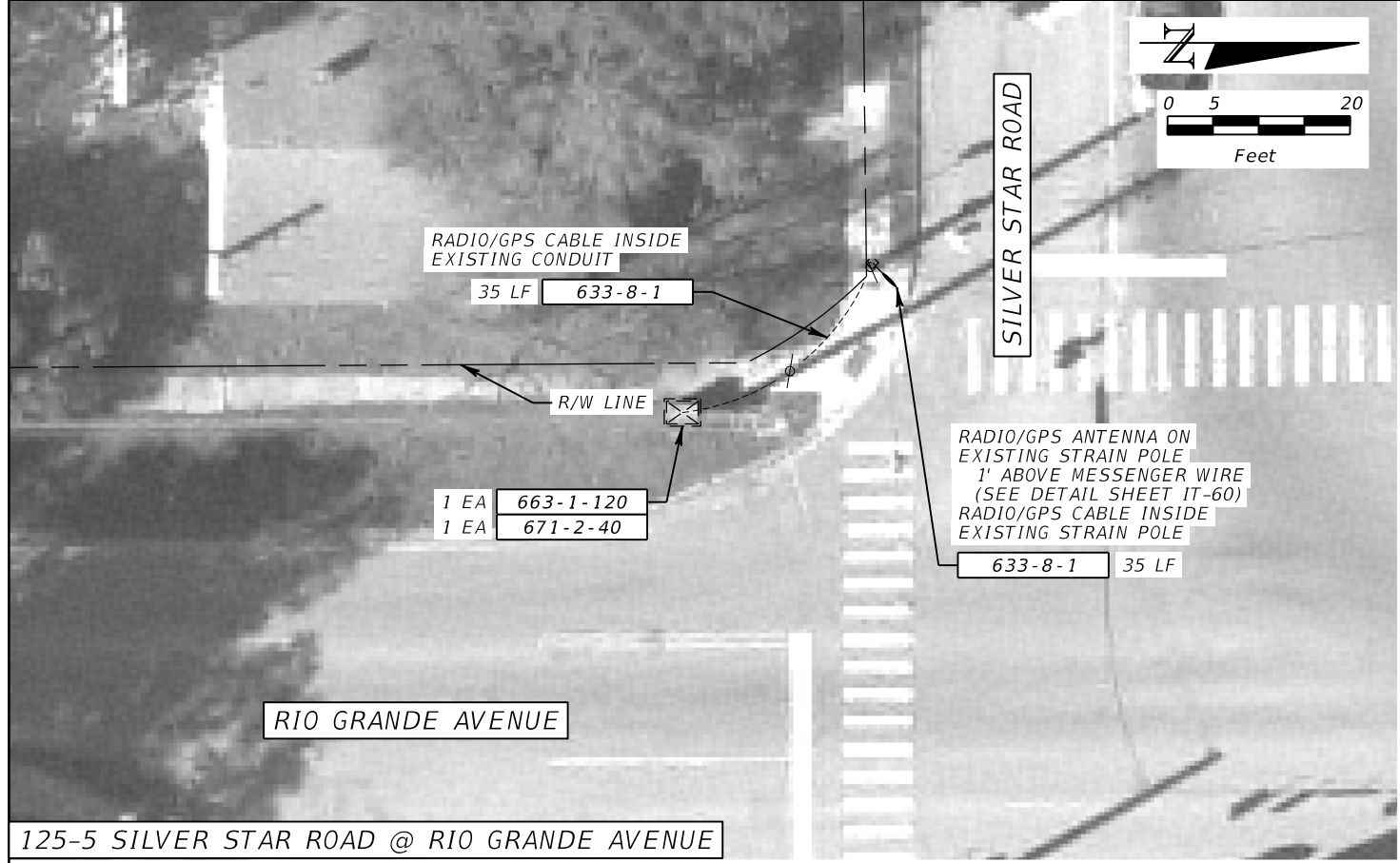
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
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 CERTIFICATE OF AUTHORIZATION 2294

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|-----------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-41

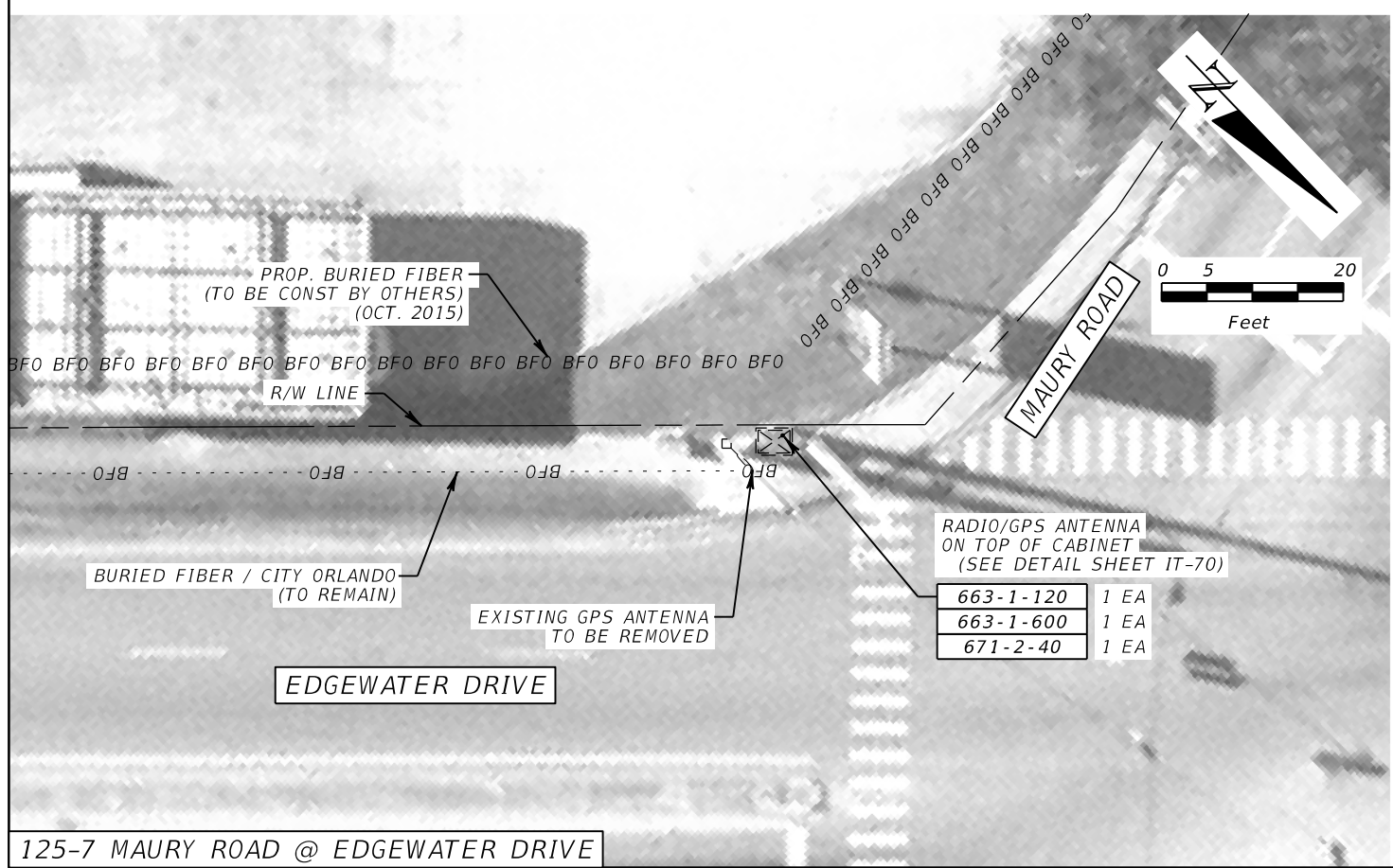
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



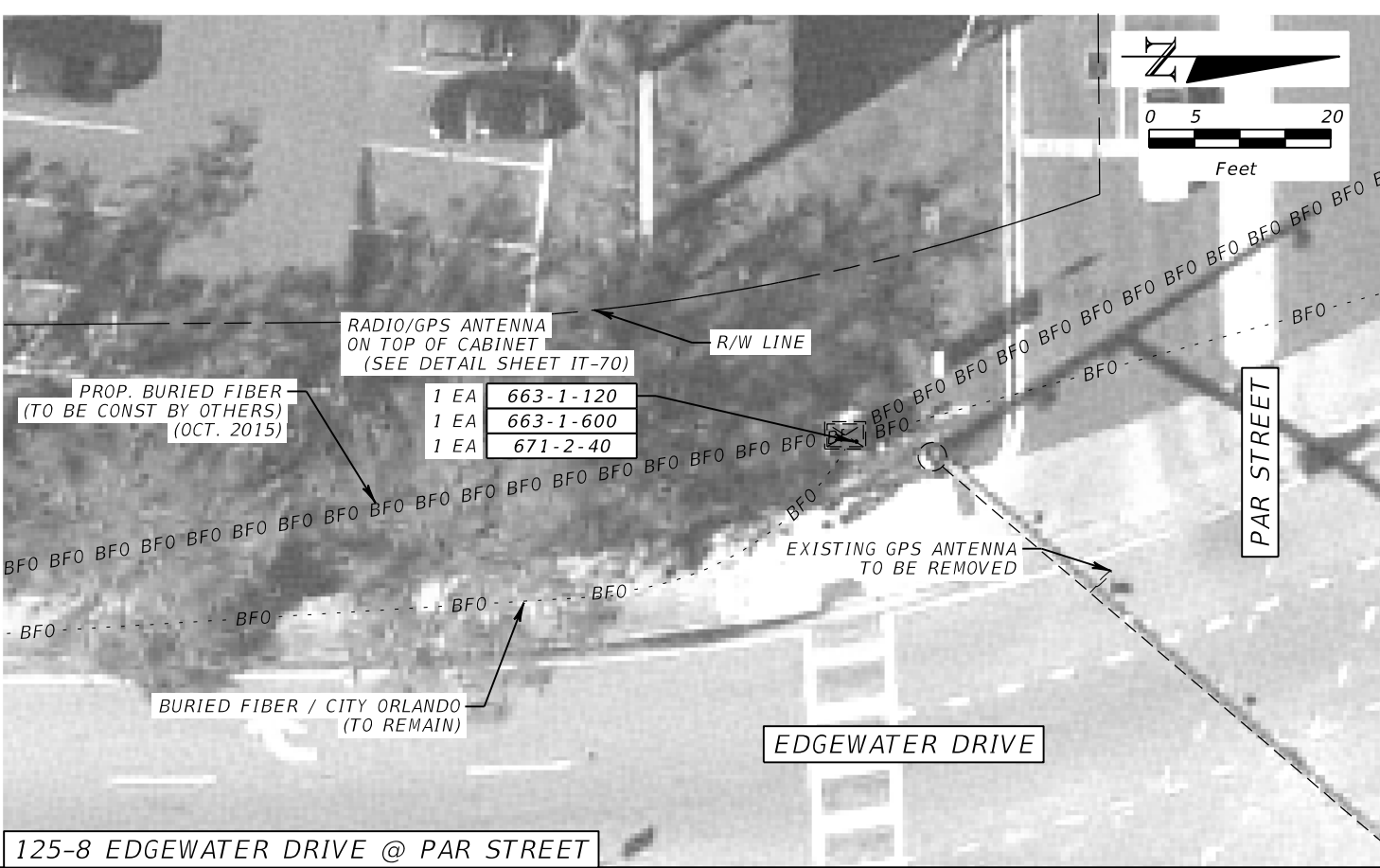
125-5 SILVER STAR ROAD @ RIO GRANDE AVENUE



125-6 MAURY ROAD @ LEE MIDDLE SCHOOL



125-7 MAURY ROAD @ EDGEWATER DRIVE



125-8 EDGEWATER DRIVE @ PAR STREET

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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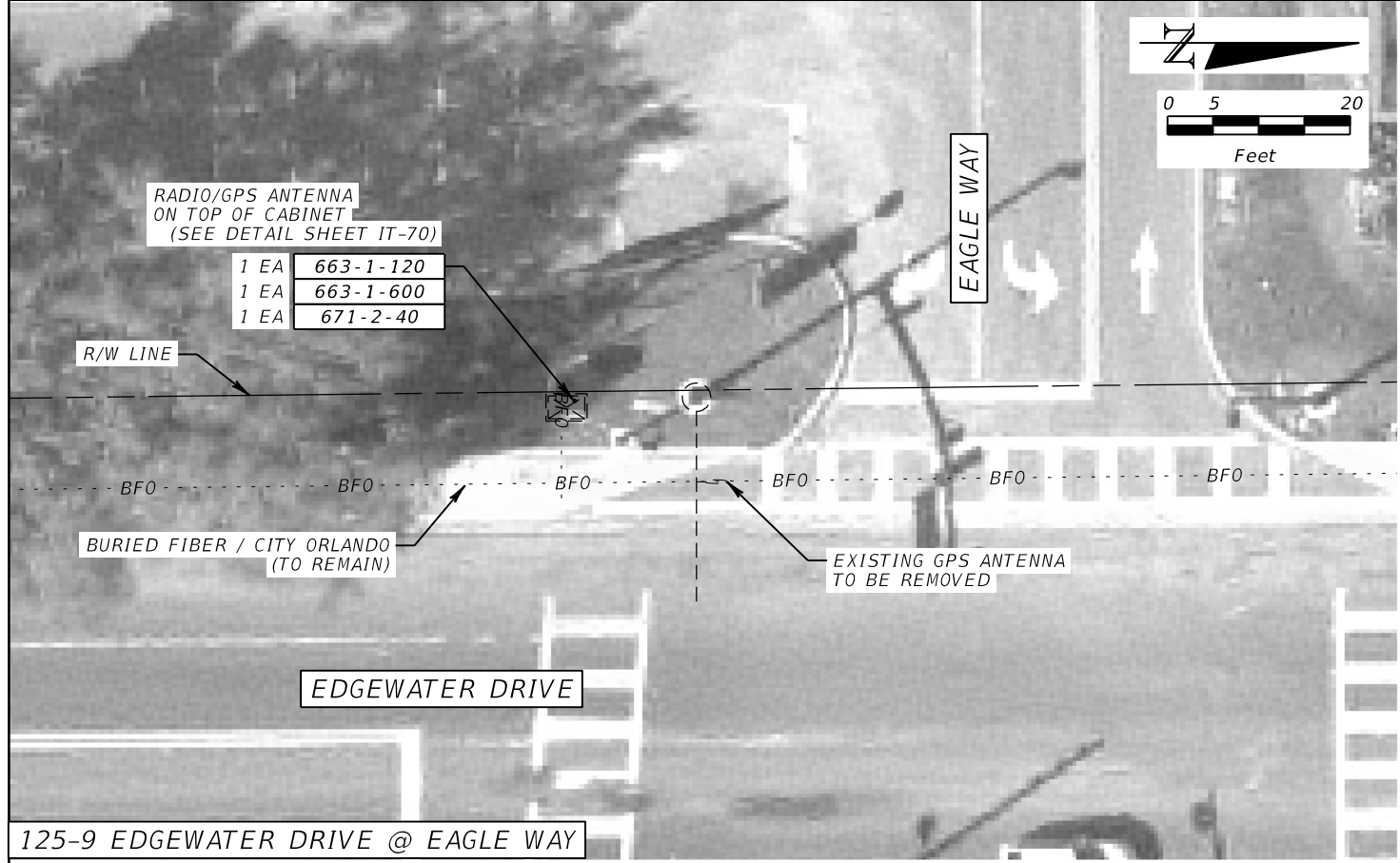
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
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 LAKE MARY, FLORIDA 32746
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

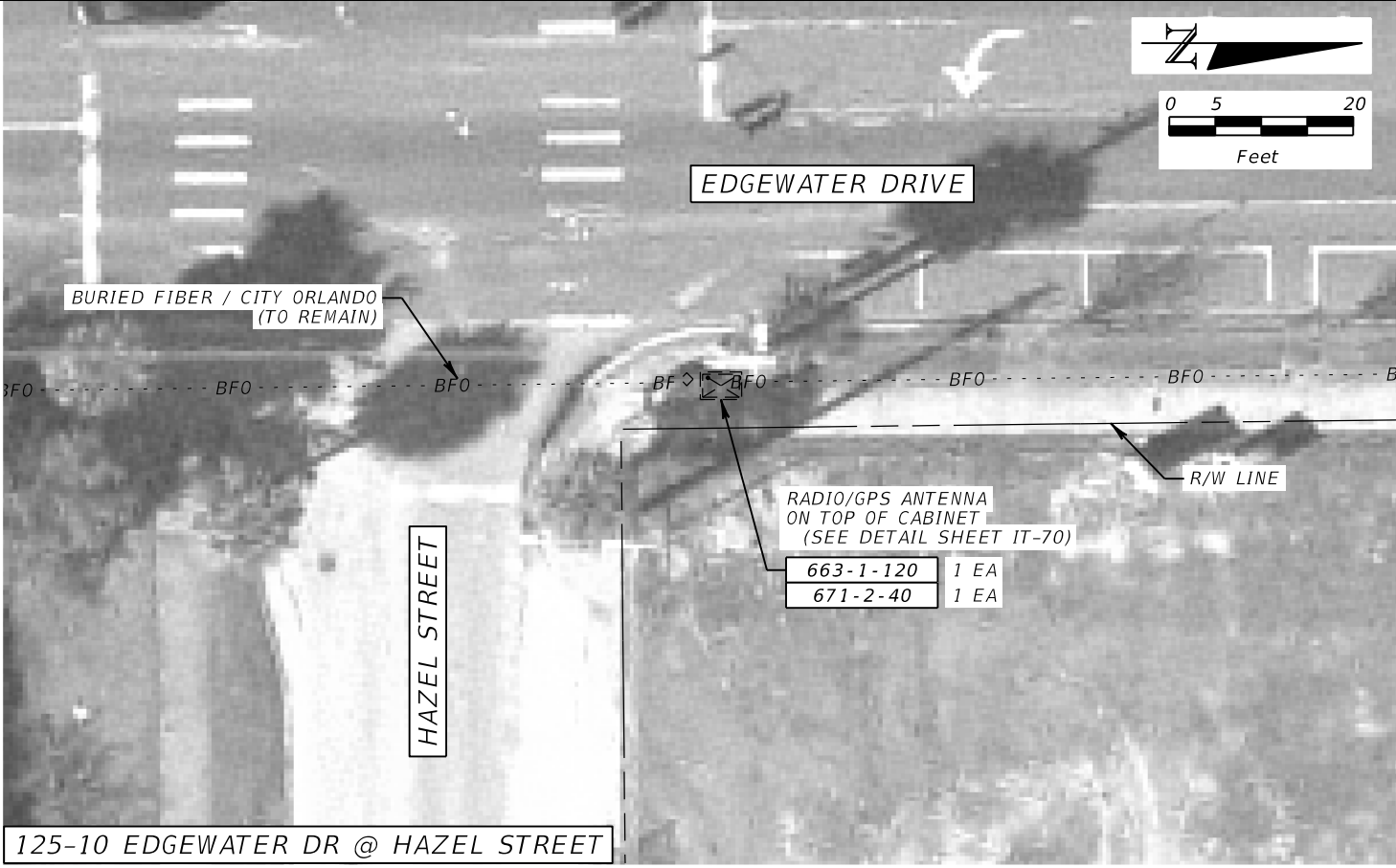
PLAN SHEET

SHEET NO.
IT-42

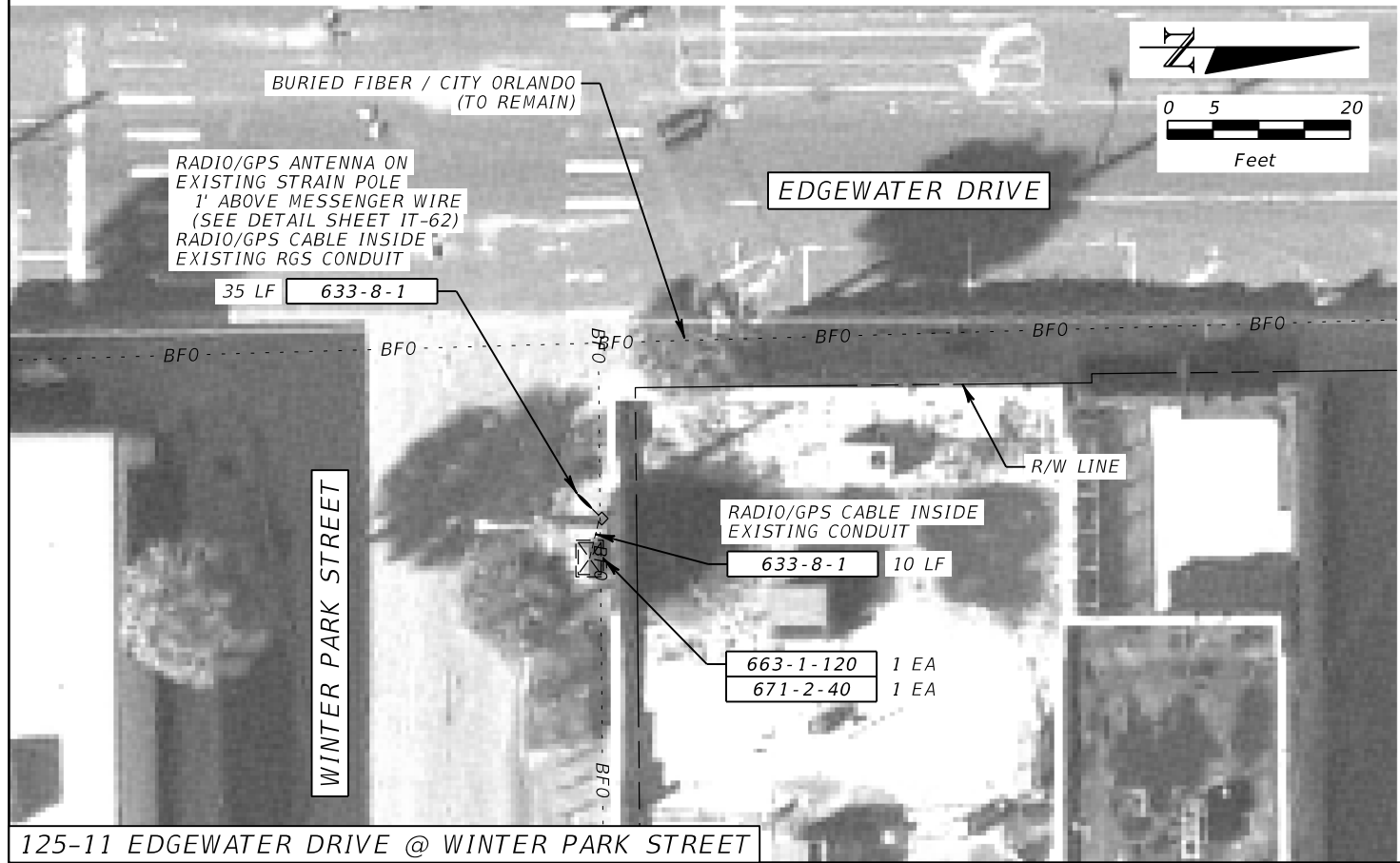
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



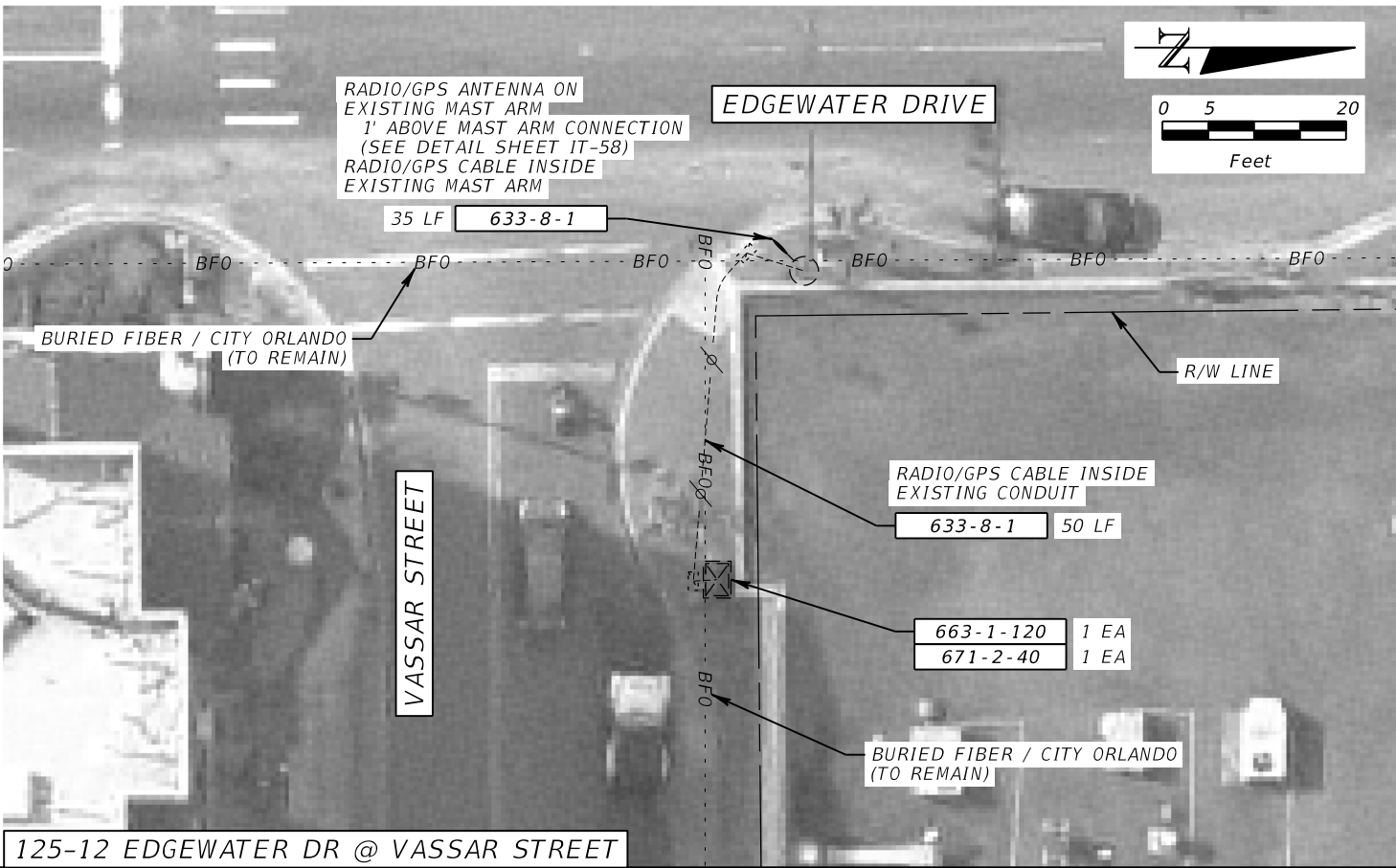
125-9 EDGEWATER DRIVE @ EAGLE WAY



125-10 EDGEWATER DR @ HAZEL STREET



125-11 EDGEWATER DRIVE @ WINTER PARK STREET



125-12 EDGEWATER DR @ VASSAR STREET

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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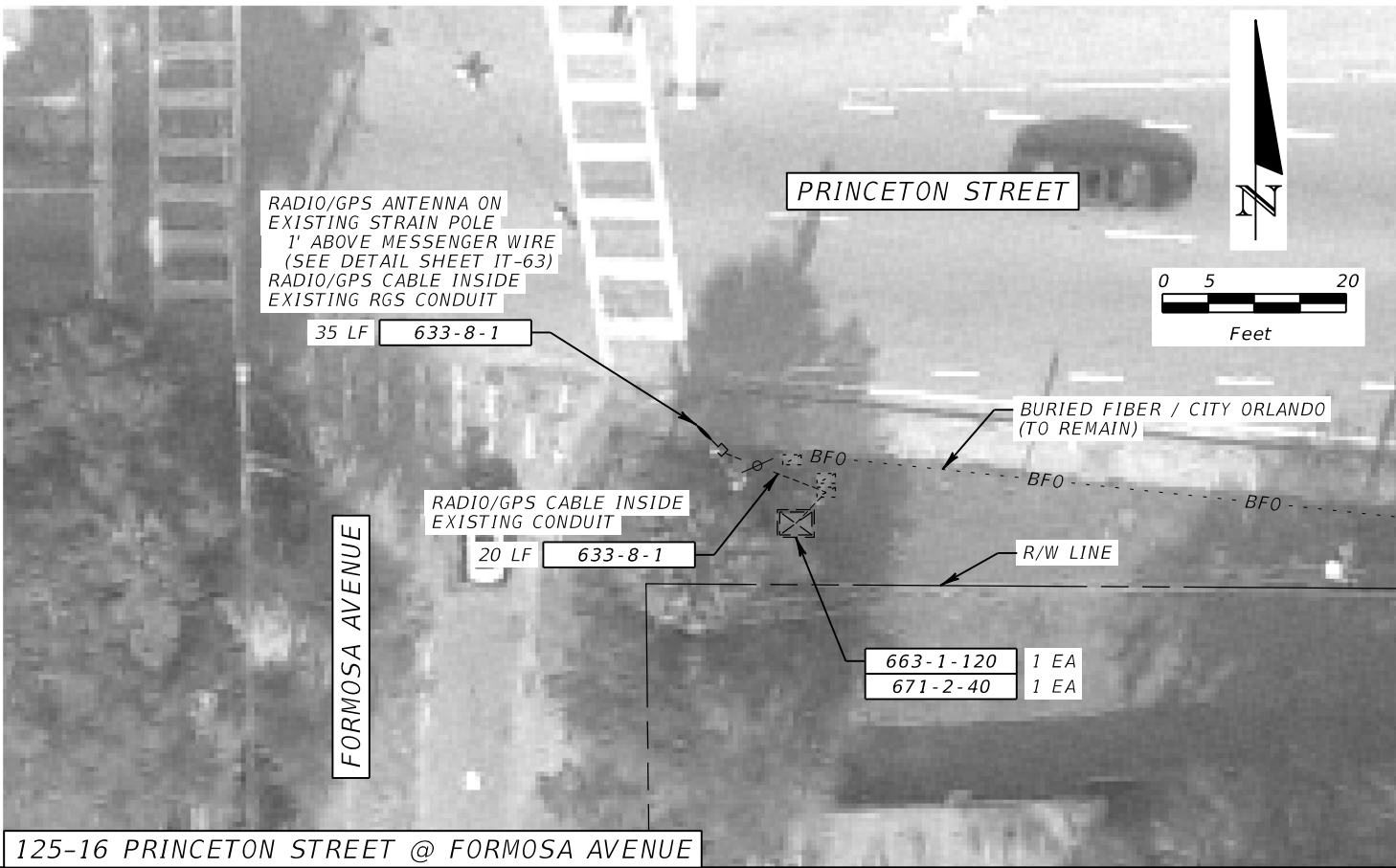
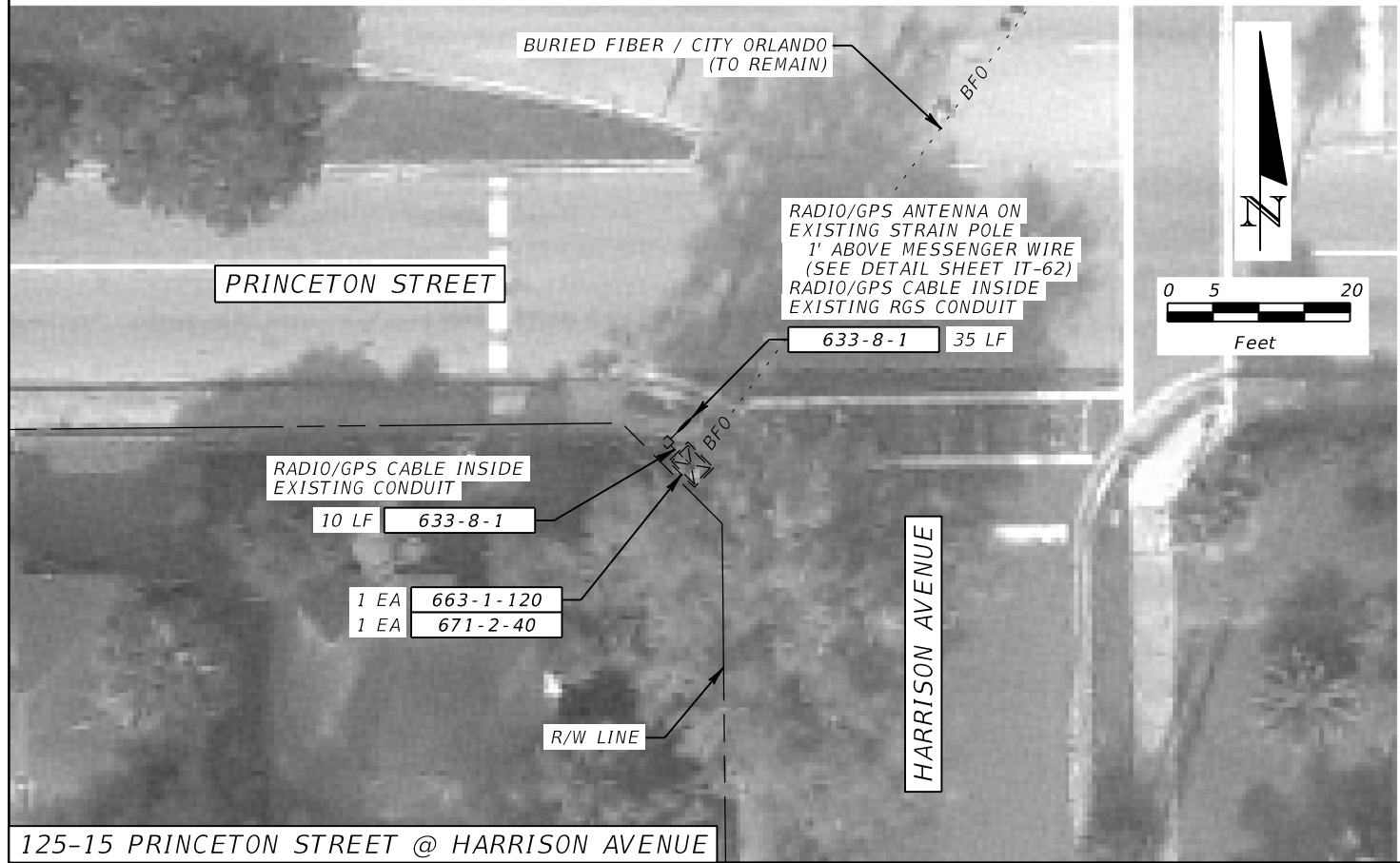
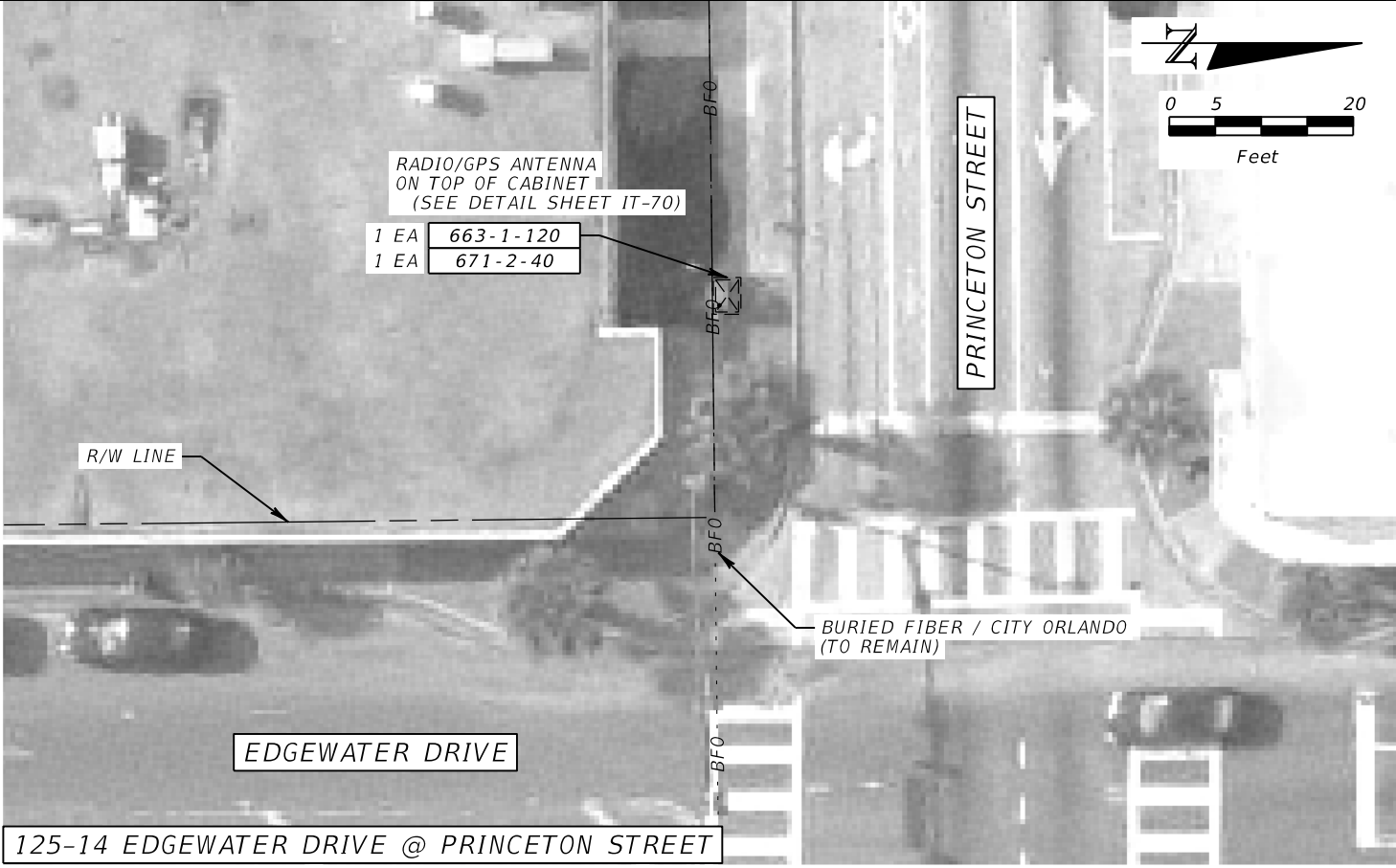
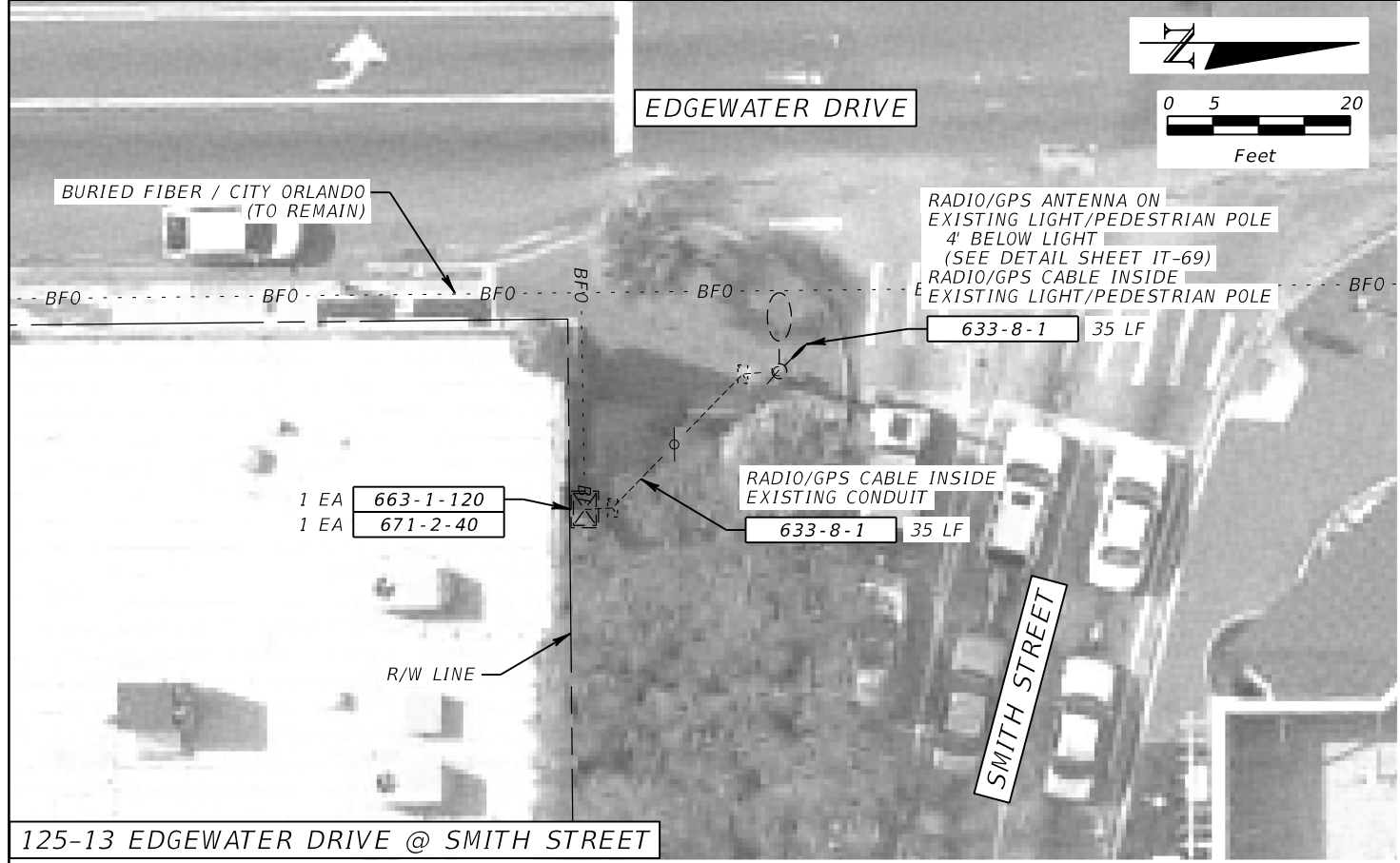
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-43

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



| REVISIONS | | | |
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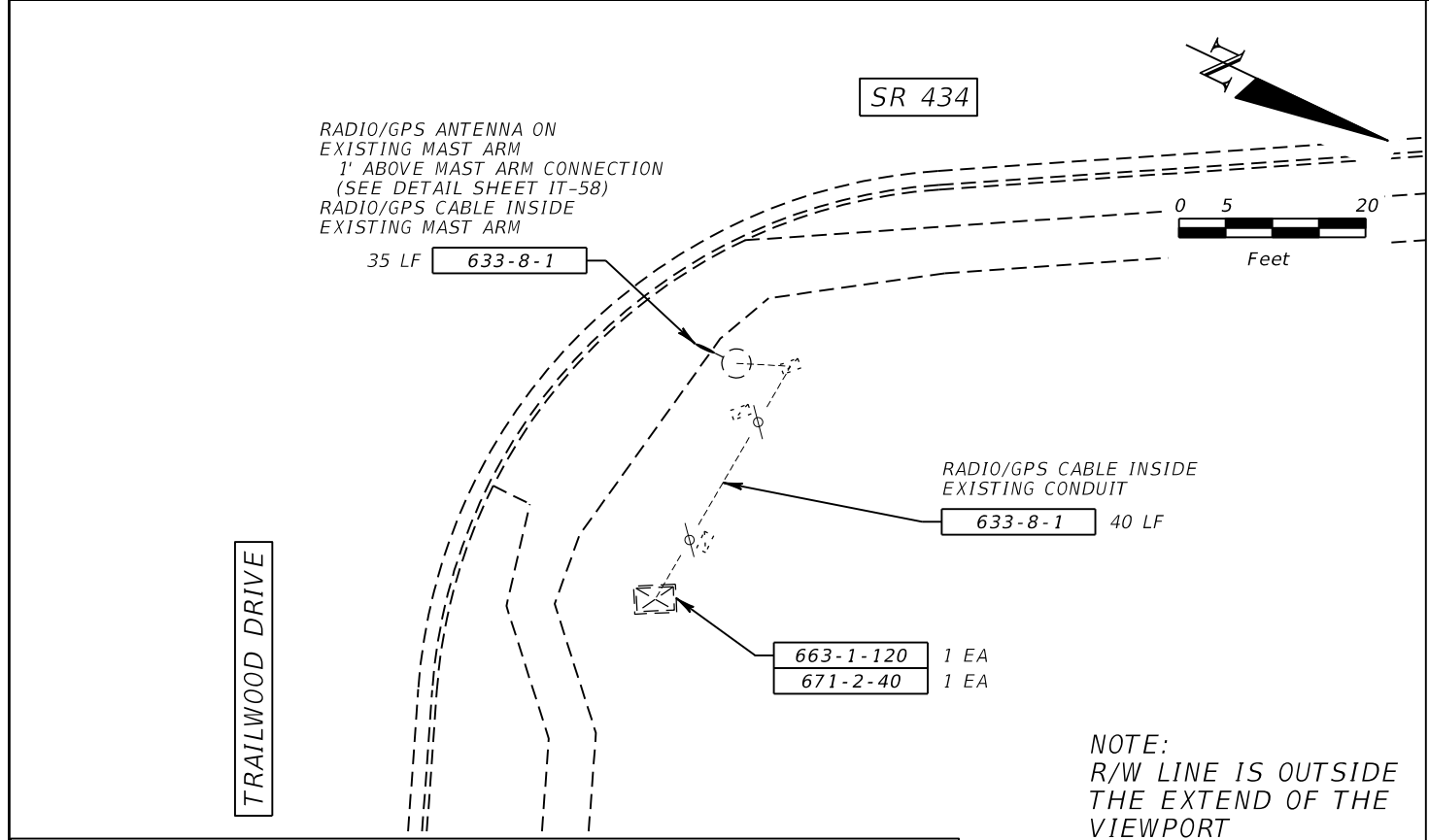
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

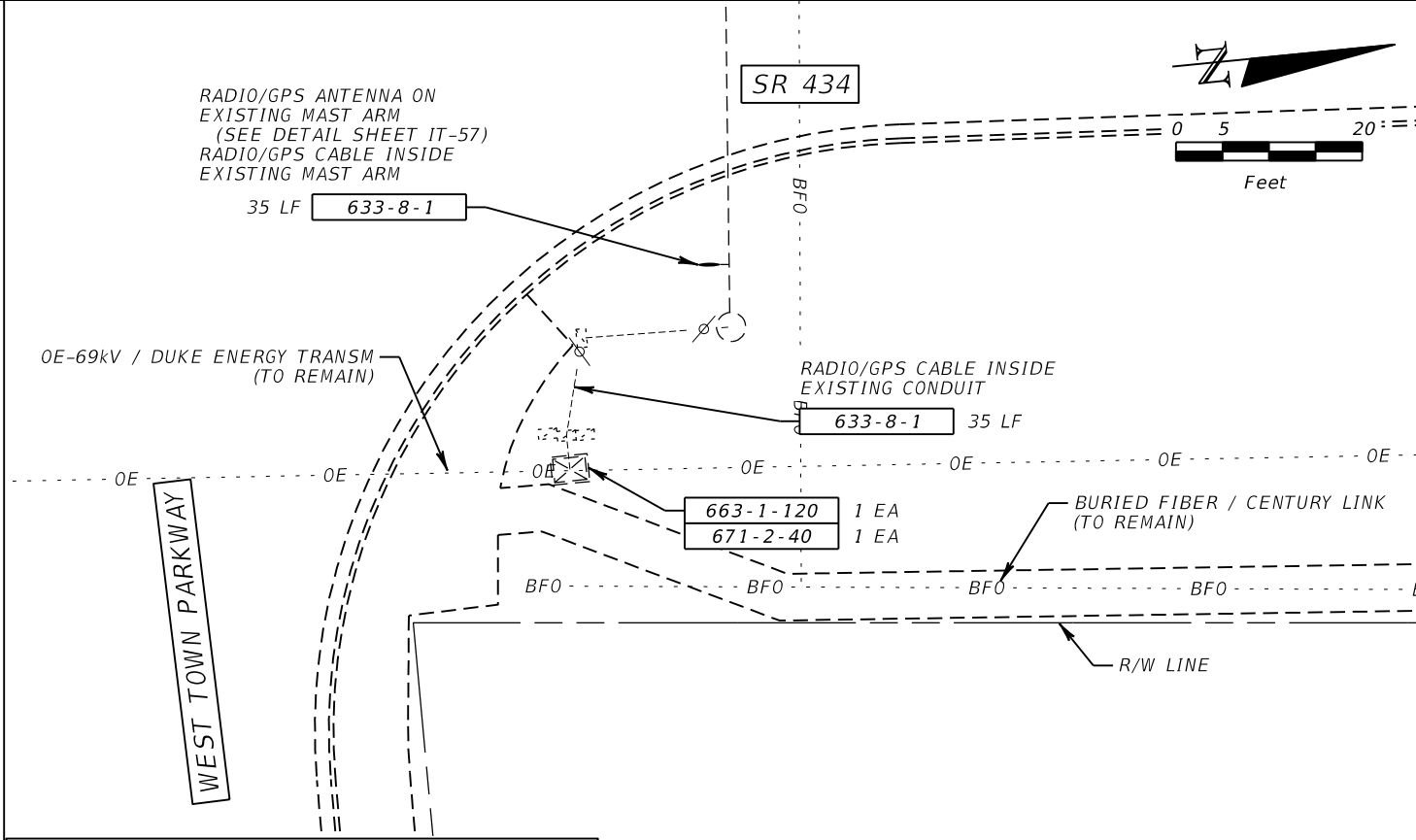
PLAN SHEET

SHEET NO.
IT-44

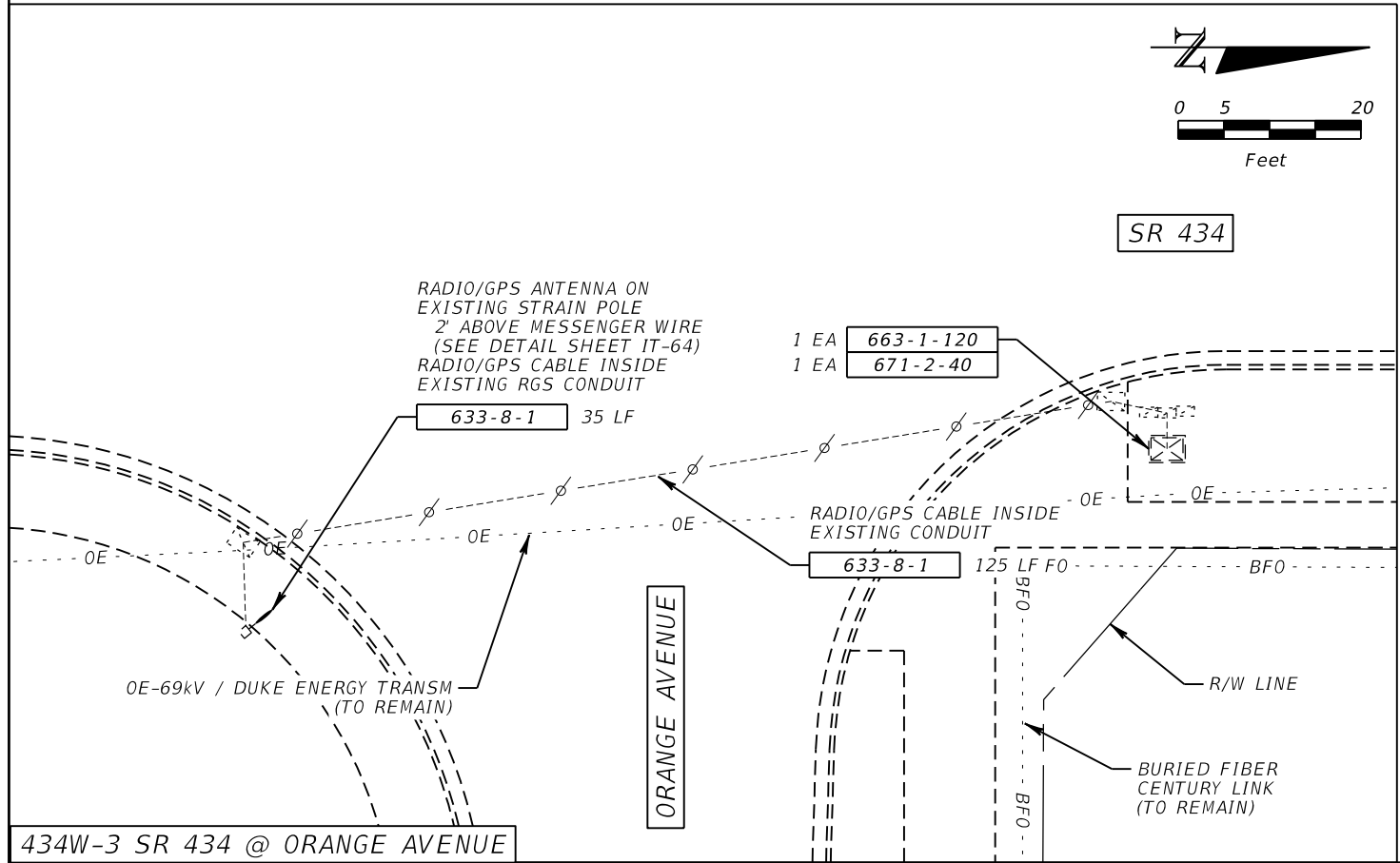
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



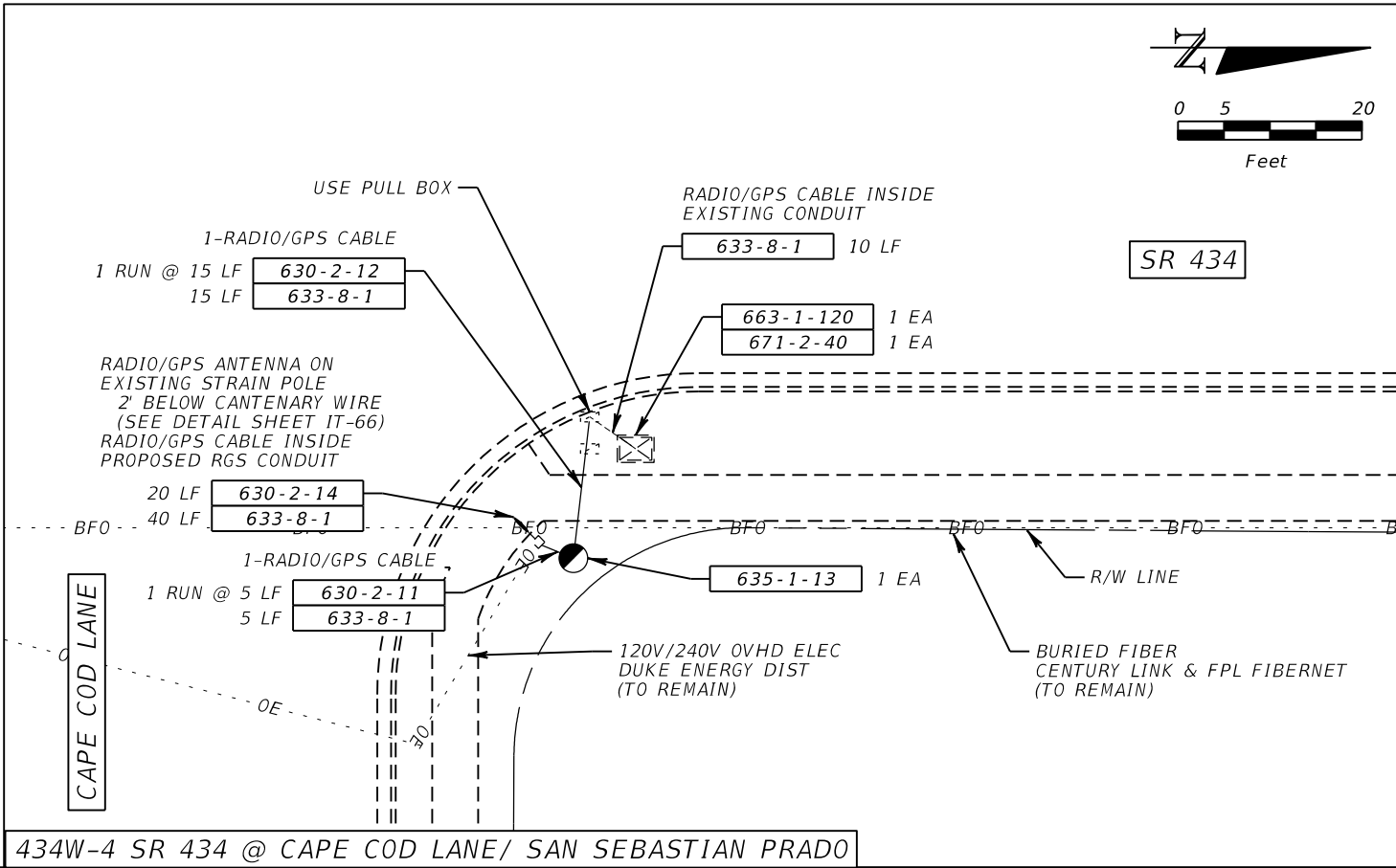
434W-1 SR 434 @ LOTUS LANDING BOULEVARD/TRAILWOOD DRIVE



434W-2 SR 434 @ WEST TOWN PARKWAY



434W-3 SR 434 @ ORANGE AVENUE



434W-4 SR 434 @ CAPE COD LANE/ SAN SEBASTIAN PRADO

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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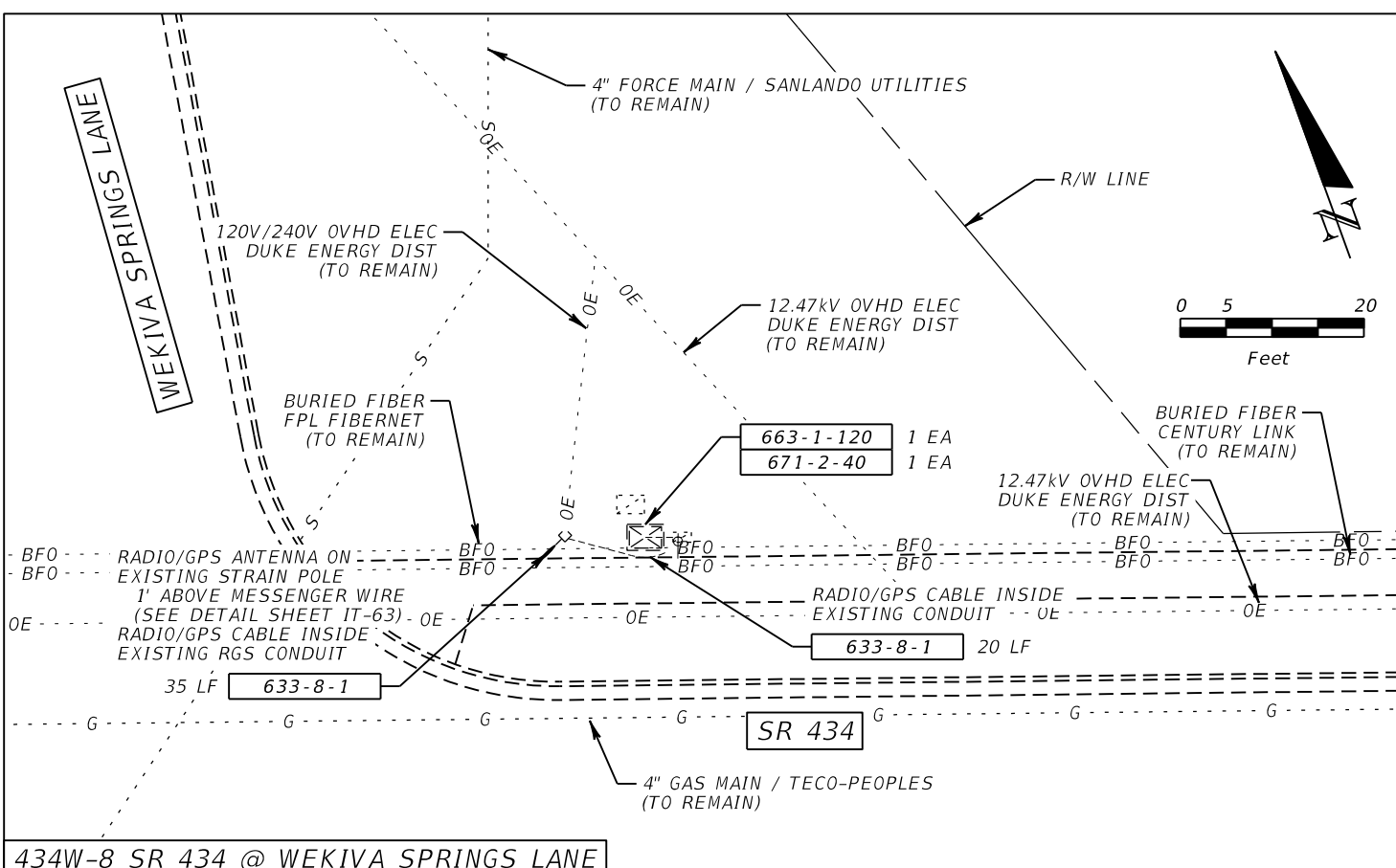
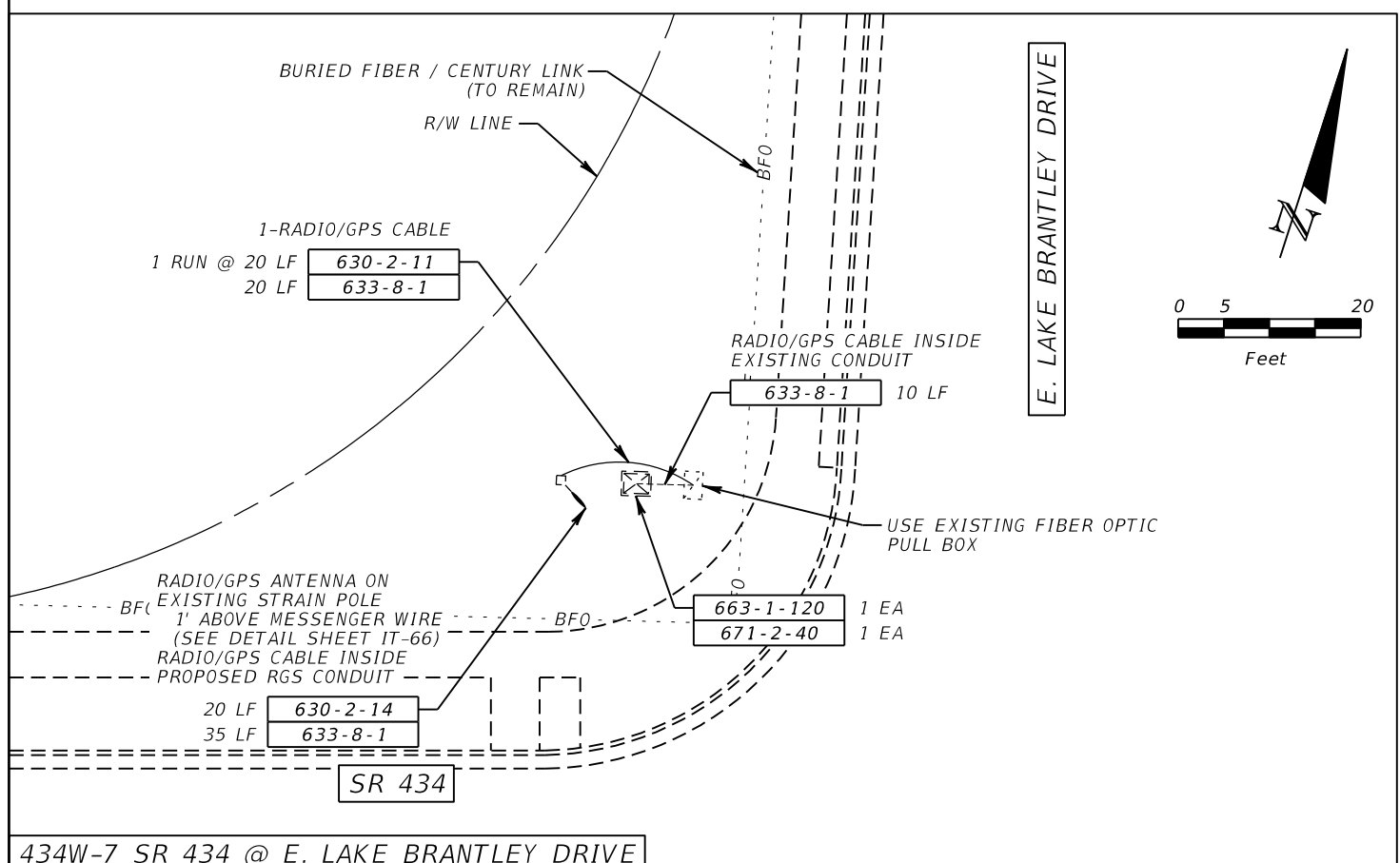
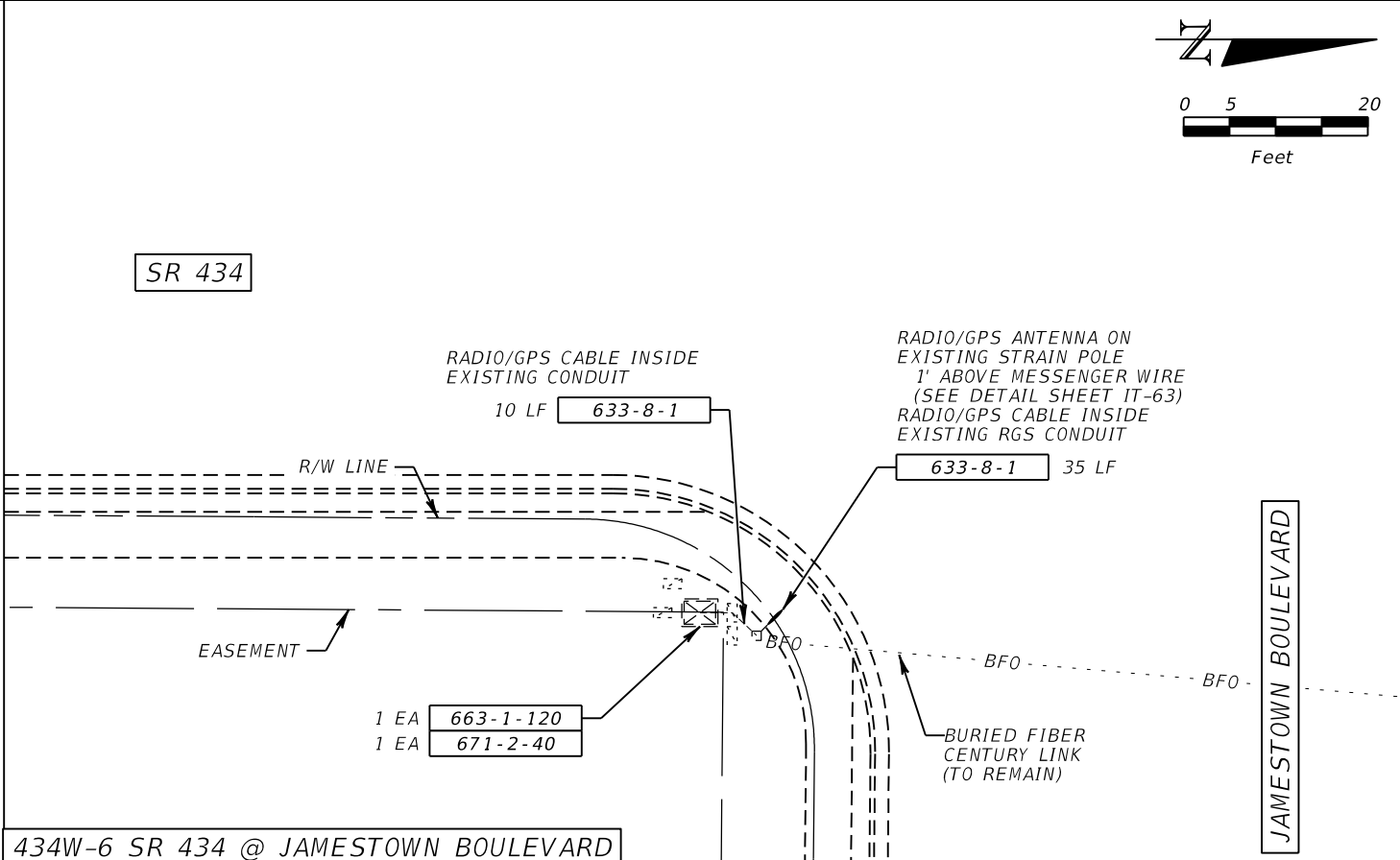
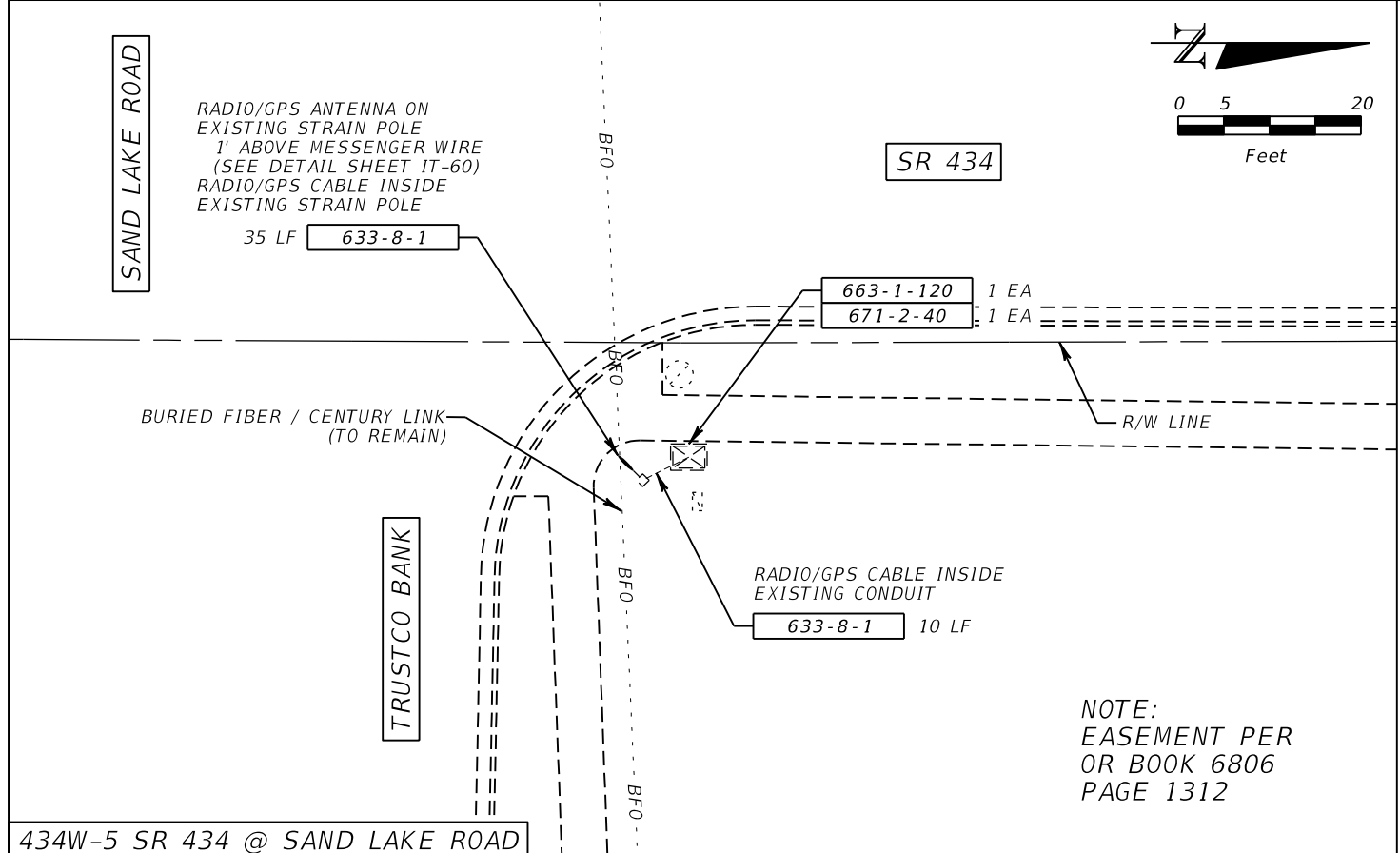
METRIC ENGINEERING, INC.
JULIO A. ALEGRE, P.E. # 66265
615 CRESCENT EXECUTIVE CT
SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294

| | | |
|--|-----------------|----------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-45

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| REVISIONS | | | |
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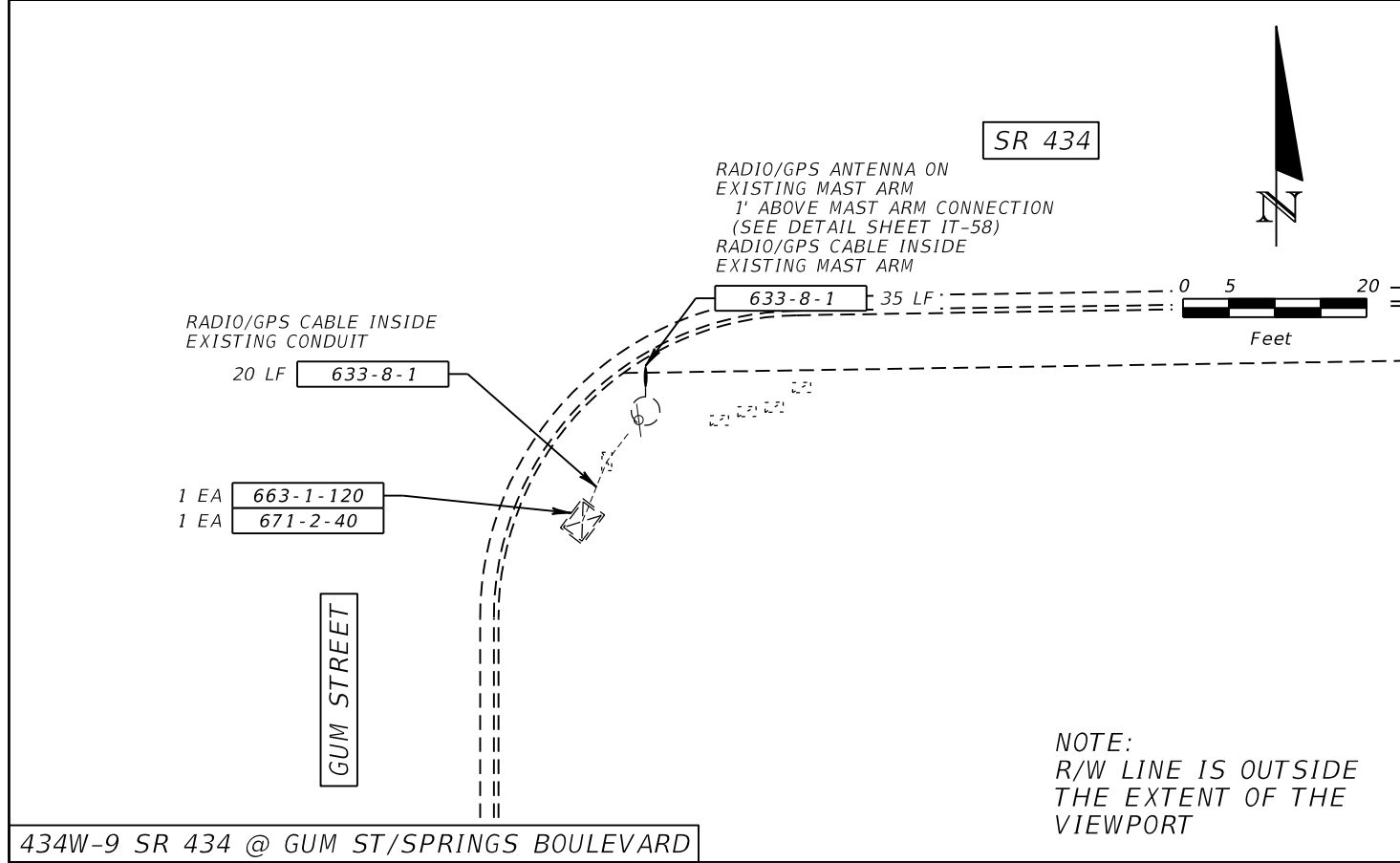
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
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 LAKE MARY, FLORIDA 32746
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

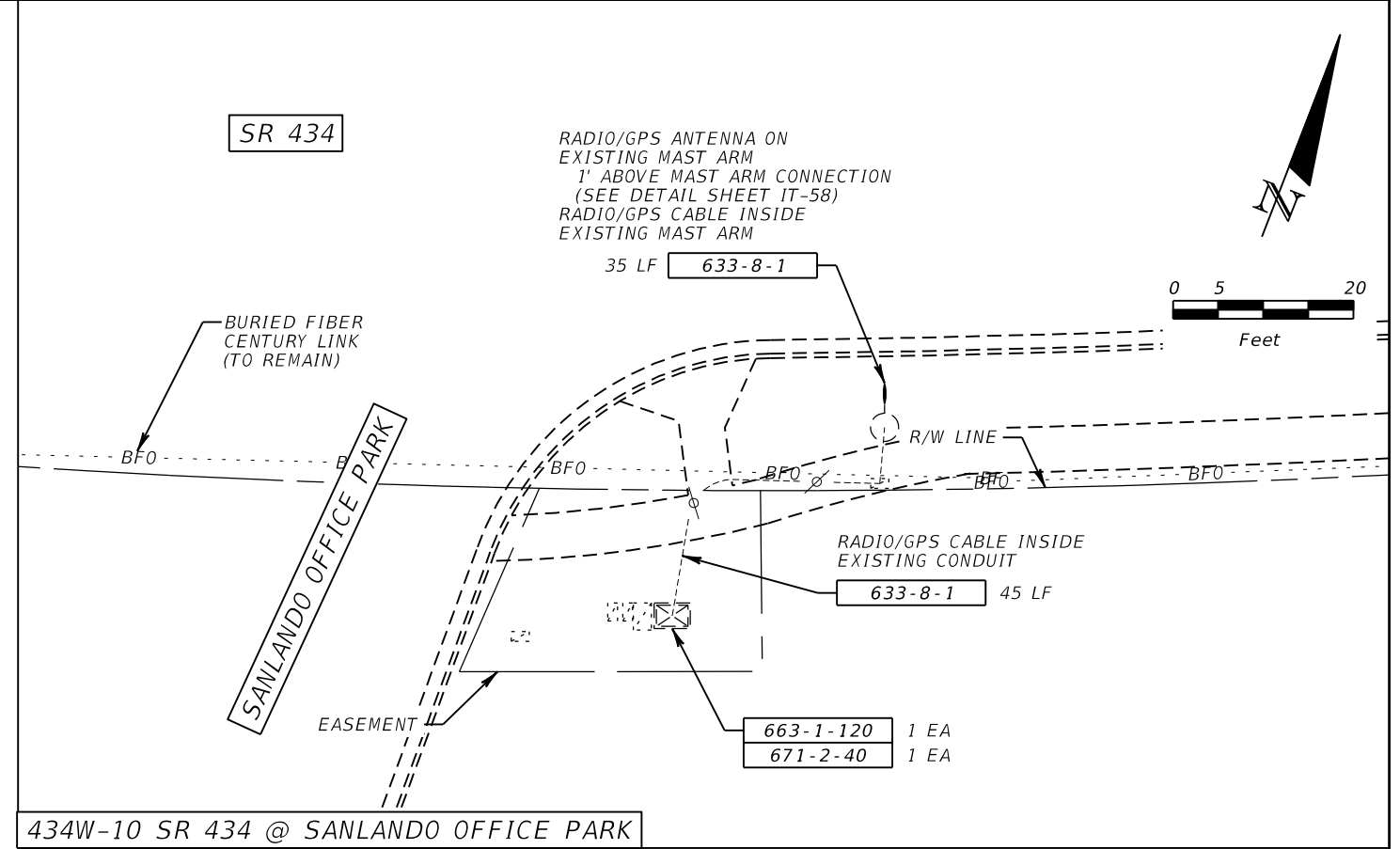
PLAN SHEET

SHEET NO.
IT-46

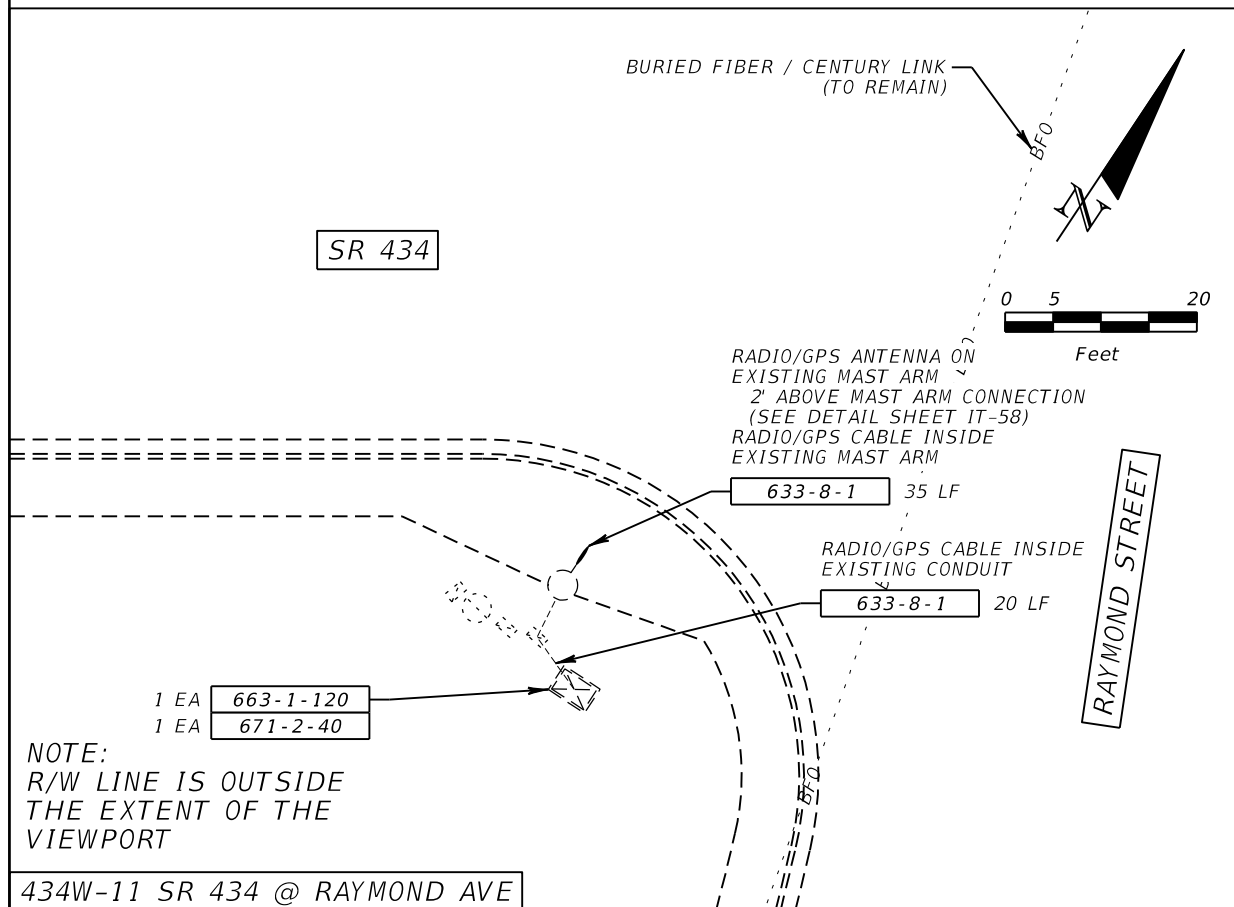
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



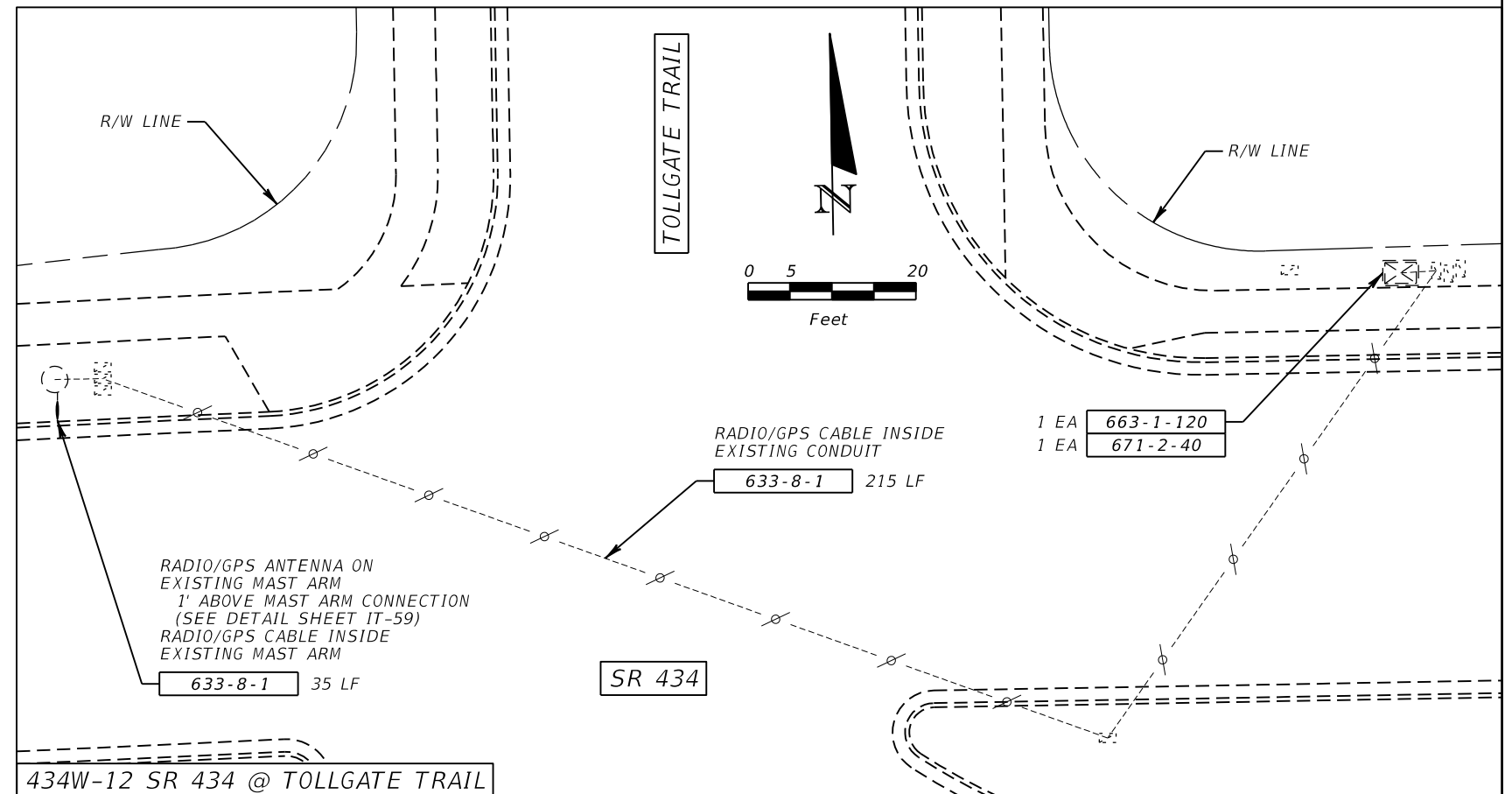
434W-9 SR 434 @ GUM ST/SPRINGS BOULEVARD



434W-10 SR 434 @ SANLANDO OFFICE PARK



434W-11 SR 434 @ RAYMOND AVE



434W-12 SR 434 @ TOLLGATE TRAIL

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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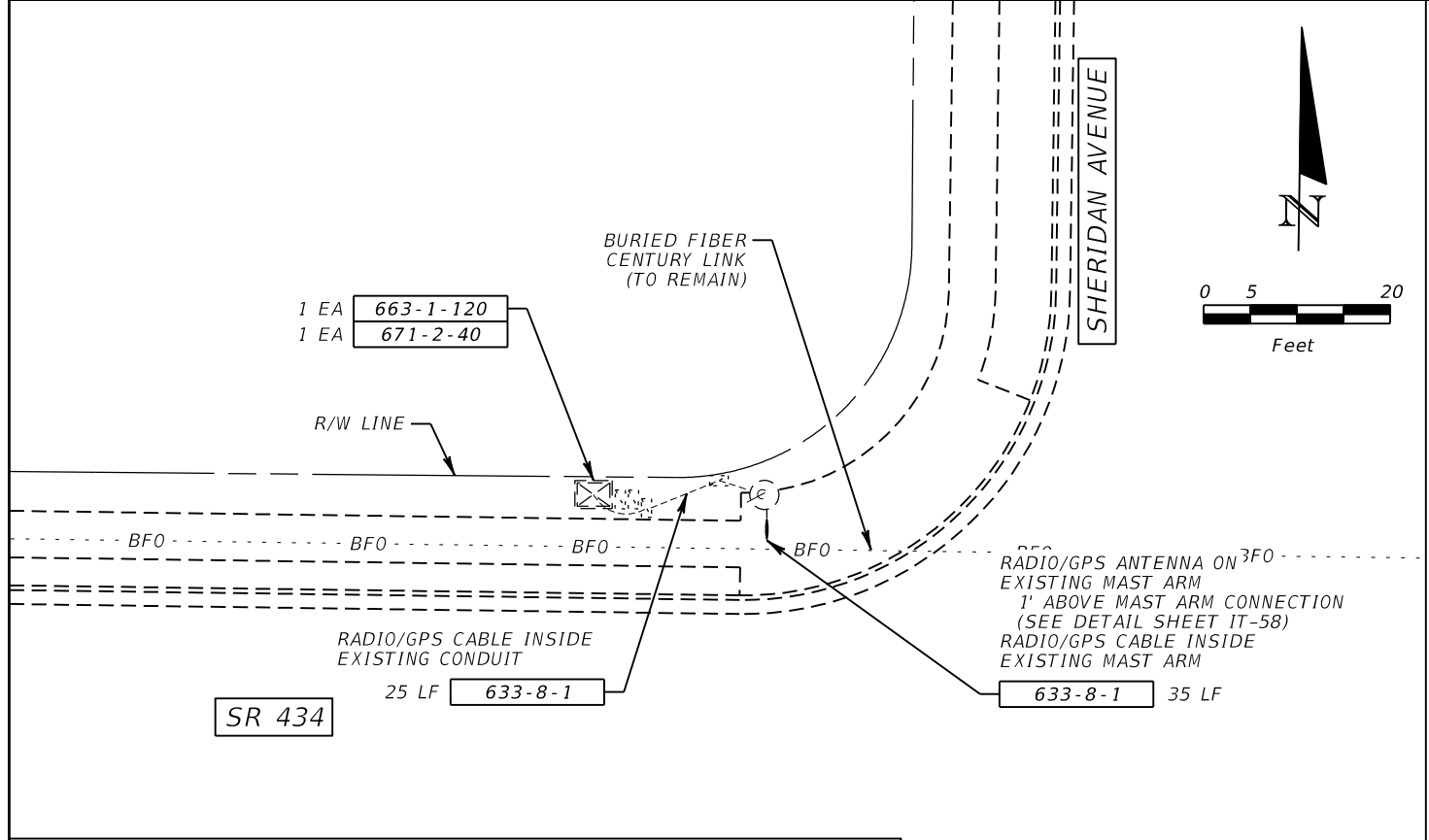
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

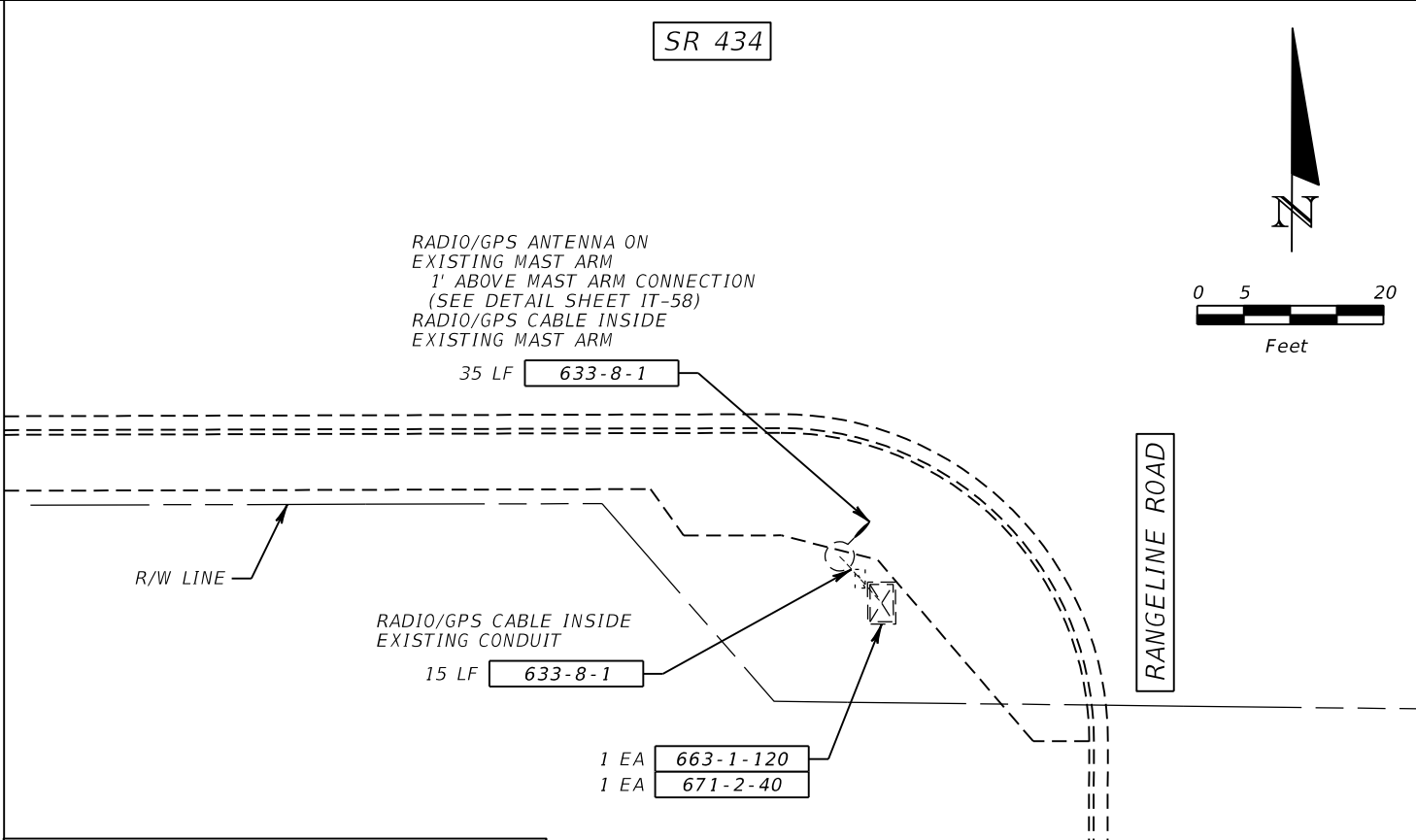
PLAN SHEET

SHEET NO.
IT-47

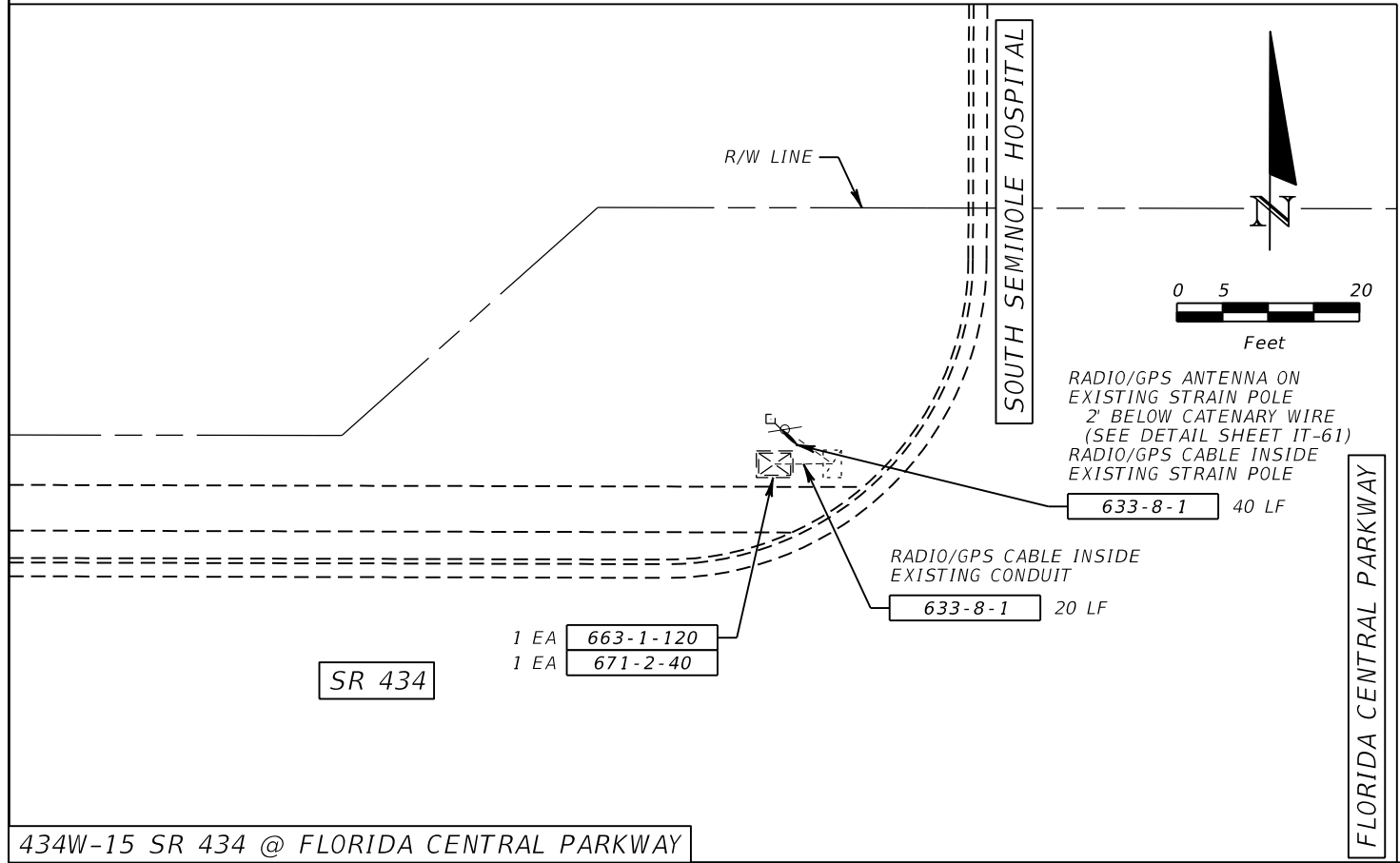
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



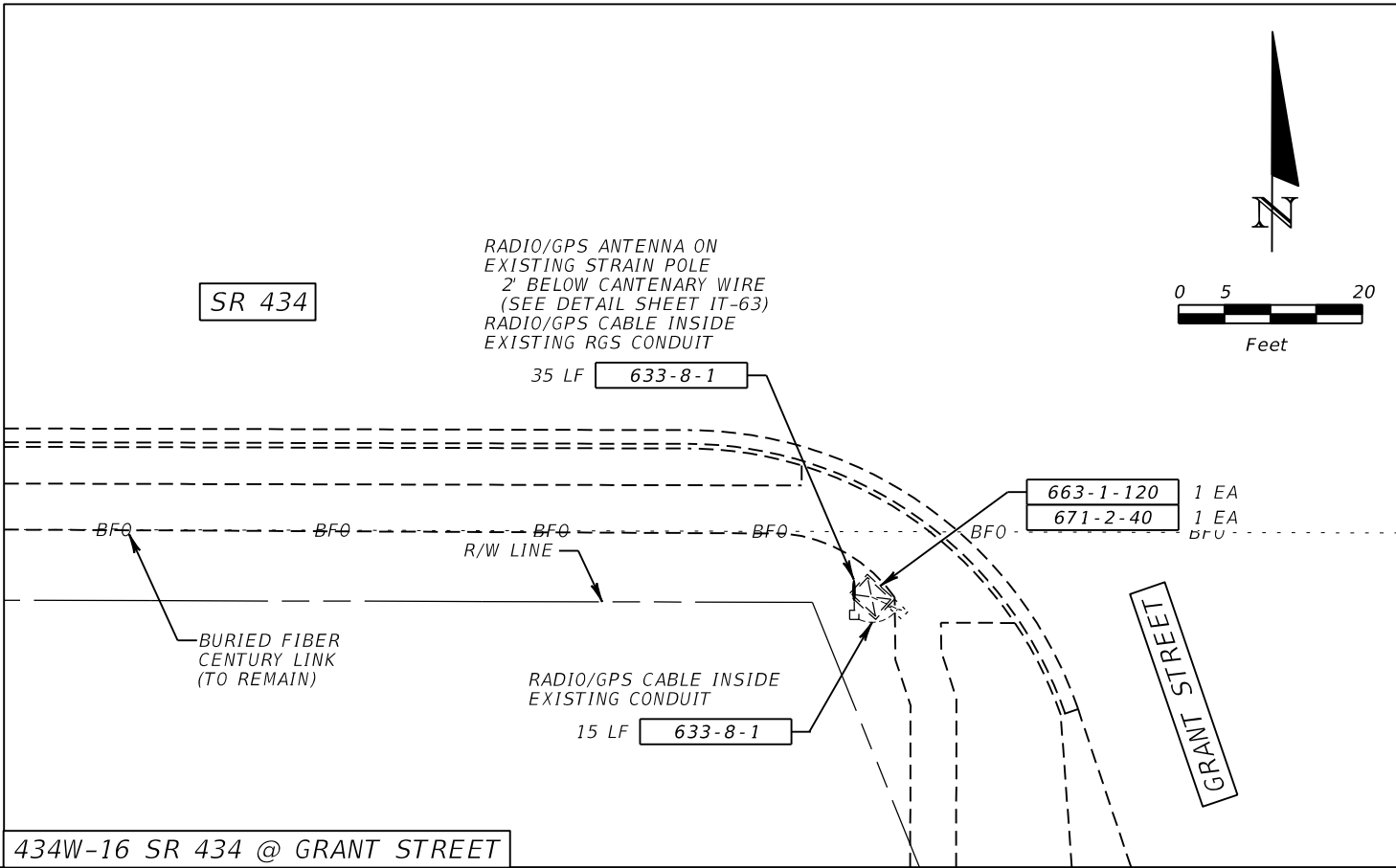
434W-13 SR 434 @ PALM SPRINGS DRIVE/SHERIDAN AVENUE



434W-14 SR 434 @ RANGELINE ROAD



434W-15 SR 434 @ FLORIDA CENTRAL PARKWAY



434W-16 SR 434 @ GRANT STREET

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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METRIC ENGINEERING, INC.
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 SUITE 524
 LAKE MARY, FLORIDA 32746
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|-----------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

PLAN SHEET

SHEET NO.
IT-48

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RADIO/GPS ANTENNA ON
EXISTING STRAIN POLE
2' BELOW CATENARY WIRE
(SEE DETAIL SHEET IT-63)
RADIO/GPS CABLE INSIDE
EXISTING RGS CONDUIT

SR 434

40 LF 633-8-1

RADIO/GPS CABLE INSIDE
EXISTING CONDUIT

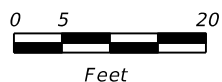
25 LF 633-8-1

1 EA 663-1-120
1 EA 671-2-40

WAYMAN STREET

R/W LINE

434W-17 SR 434 @ WAYMAN STREET



SR 434

RADIO/GPS CABLE INSIDE
EXISTING CONDUIT

15 LF 633-8-1

OE-69kV / DUKE ENERGY TRANSM
(TO REMAIN)

RADIO/GPS ANTENNA ON
EXISTING STRAIN POLE
1' ABOVE MESSENGER WIRE
(SEE DETAIL SHEET IT-63)
RADIO/GPS CABLE INSIDE
EXISTING RGS CONDUIT

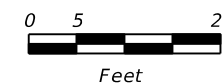
633-8-1 35 LF

1 EA 663-1-120
1 EA 671-2-40

R/W LINE

US 17/92

434W-18 SR 434 @ US 17/92



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| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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METRIC ENGINEERING, INC.
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LAKE MARY, FLORIDA 32746
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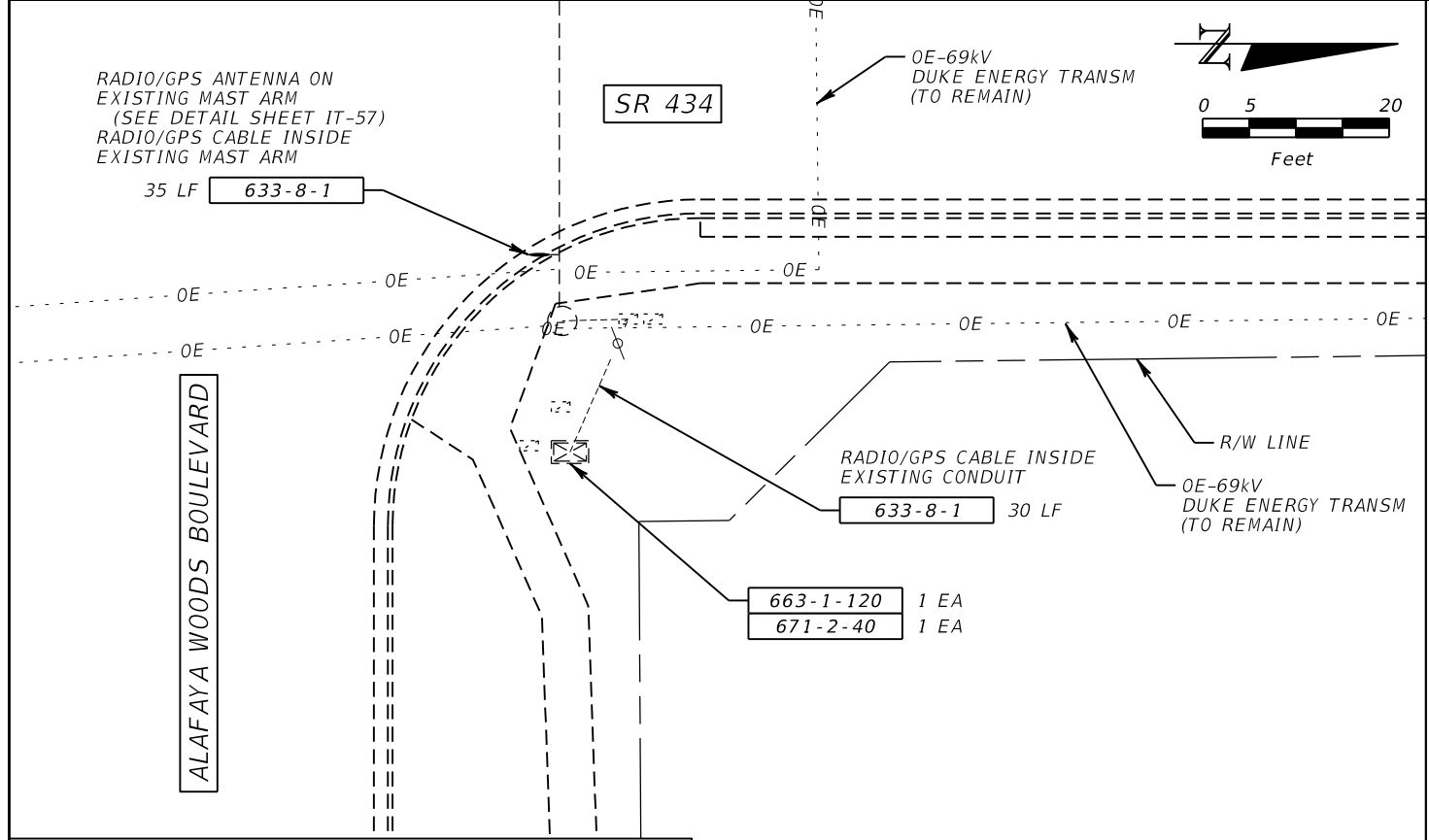
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|----------|--------------------|----------------------|
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

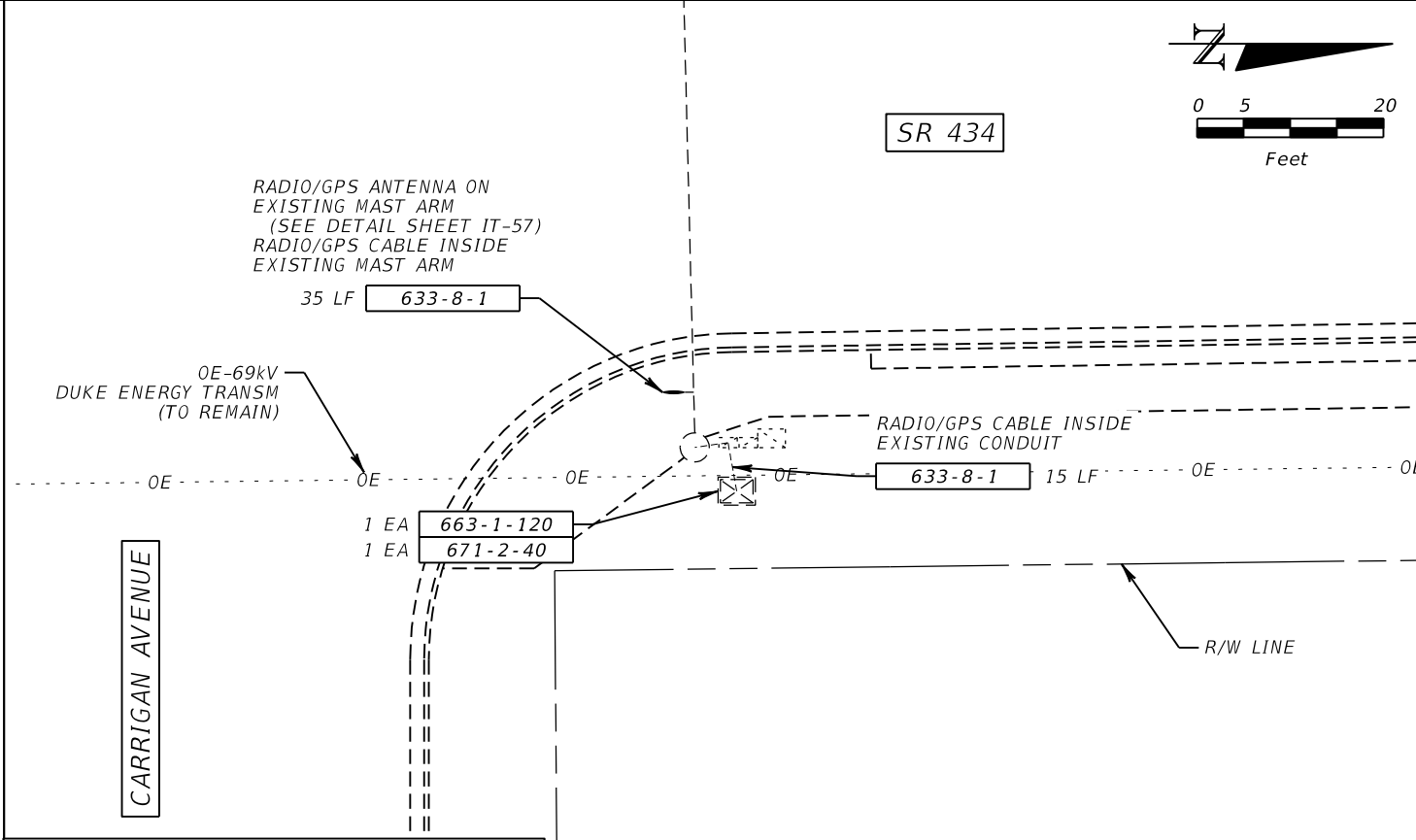
PLAN SHEET

SHEET
NO.

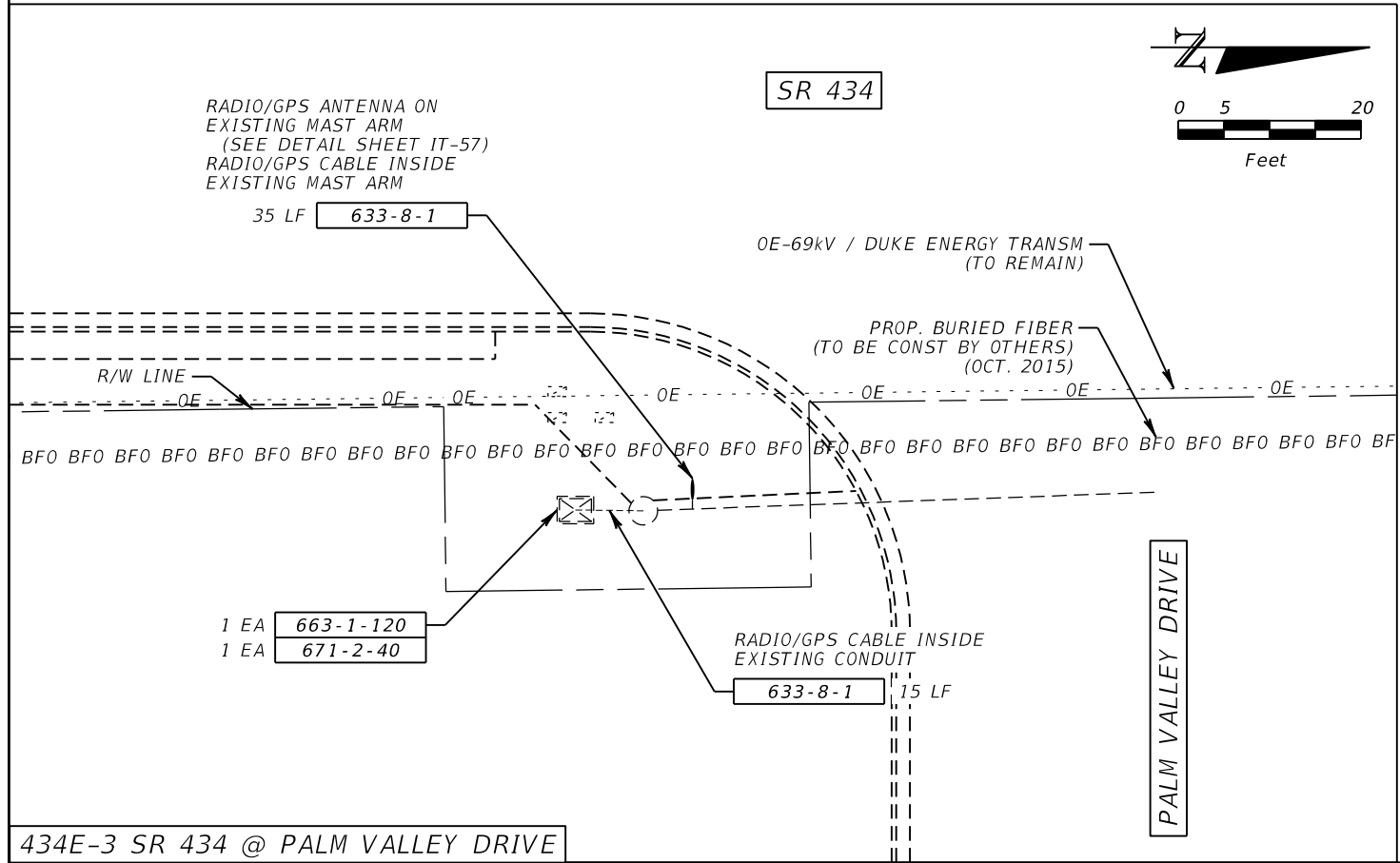
IT-49



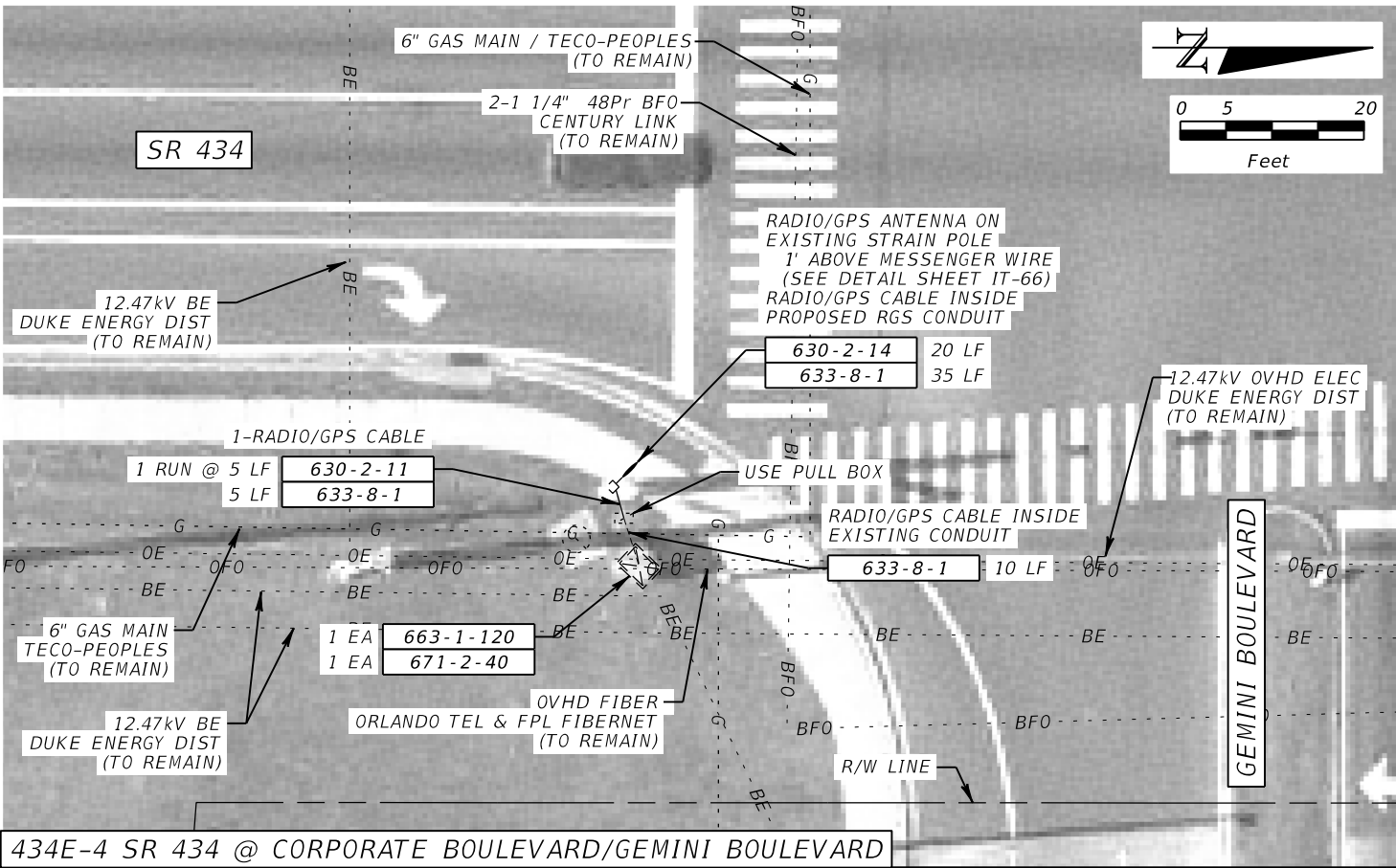
434E-1 SR 434 @ ALAFAYA WOODS BOULEVARD



434E-2 SR 434 @ CARRIGAN AVENUE



434E-3 SR 434 @ PALM VALLEY DRIVE



434E-4 SR 434 @ CORPORATE BOULEVARD/GEMINI BOULEVARD

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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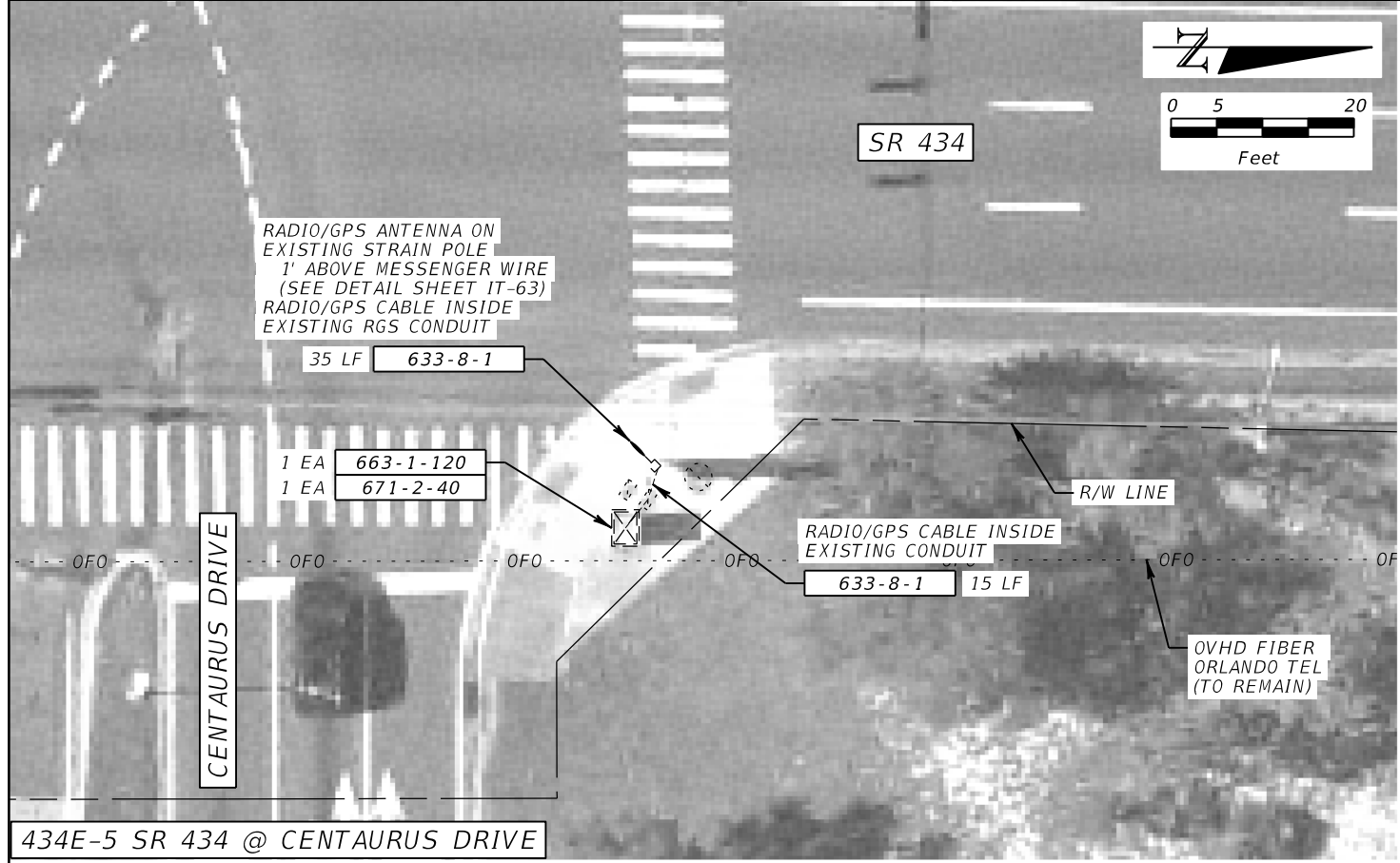
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

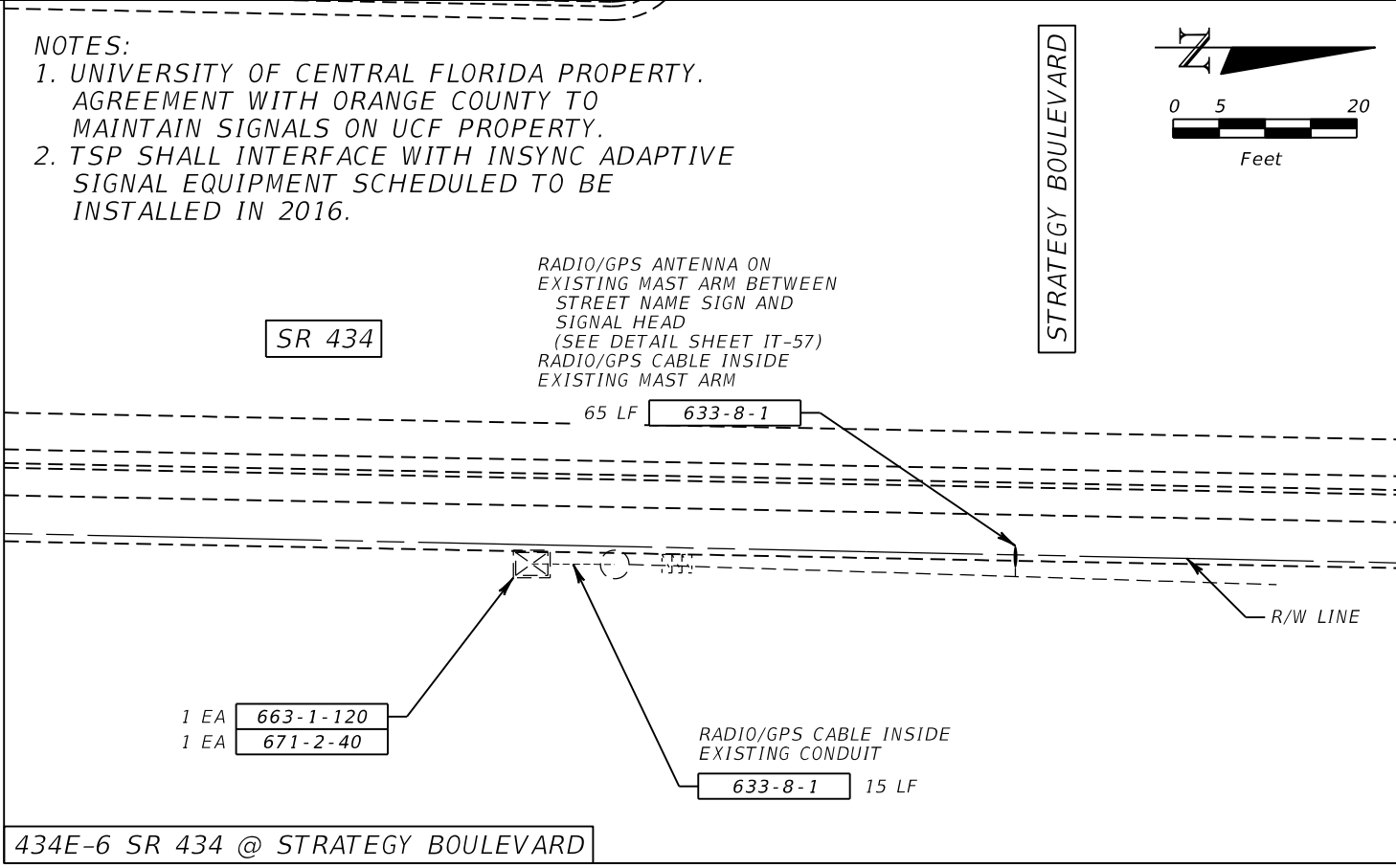
PLAN SHEET

SHEET NO.
IT-50

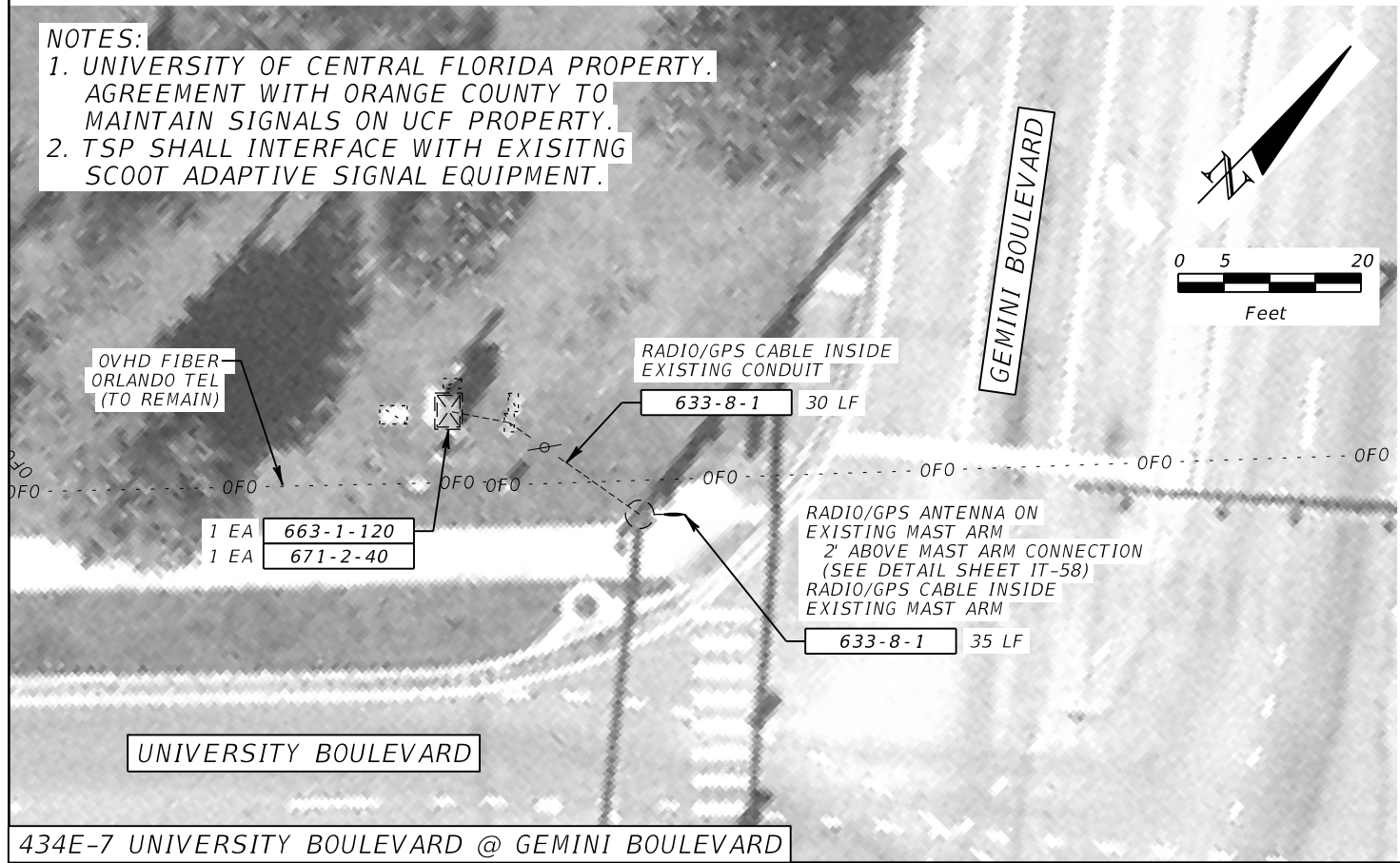
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434E-5 SR 434 @ CENTAURUS DRIVE



434E-6 SR 434 @ STRATEGY BOULEVARD



434E-7 UNIVERSITY BOULEVARD @ GEMINI BOULEVARD

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- NOTES:
- UNIVERSITY OF CENTRAL FLORIDA PROPERTY. AGREEMENT WITH ORANGE COUNTY TO MAINTAIN SIGNALS ON UCF PROPERTY.
 - TSP SHALL INTERFACE WITH EXISITNG SCOOT ADAPTIVE SIGNAL EQUIPMENT.

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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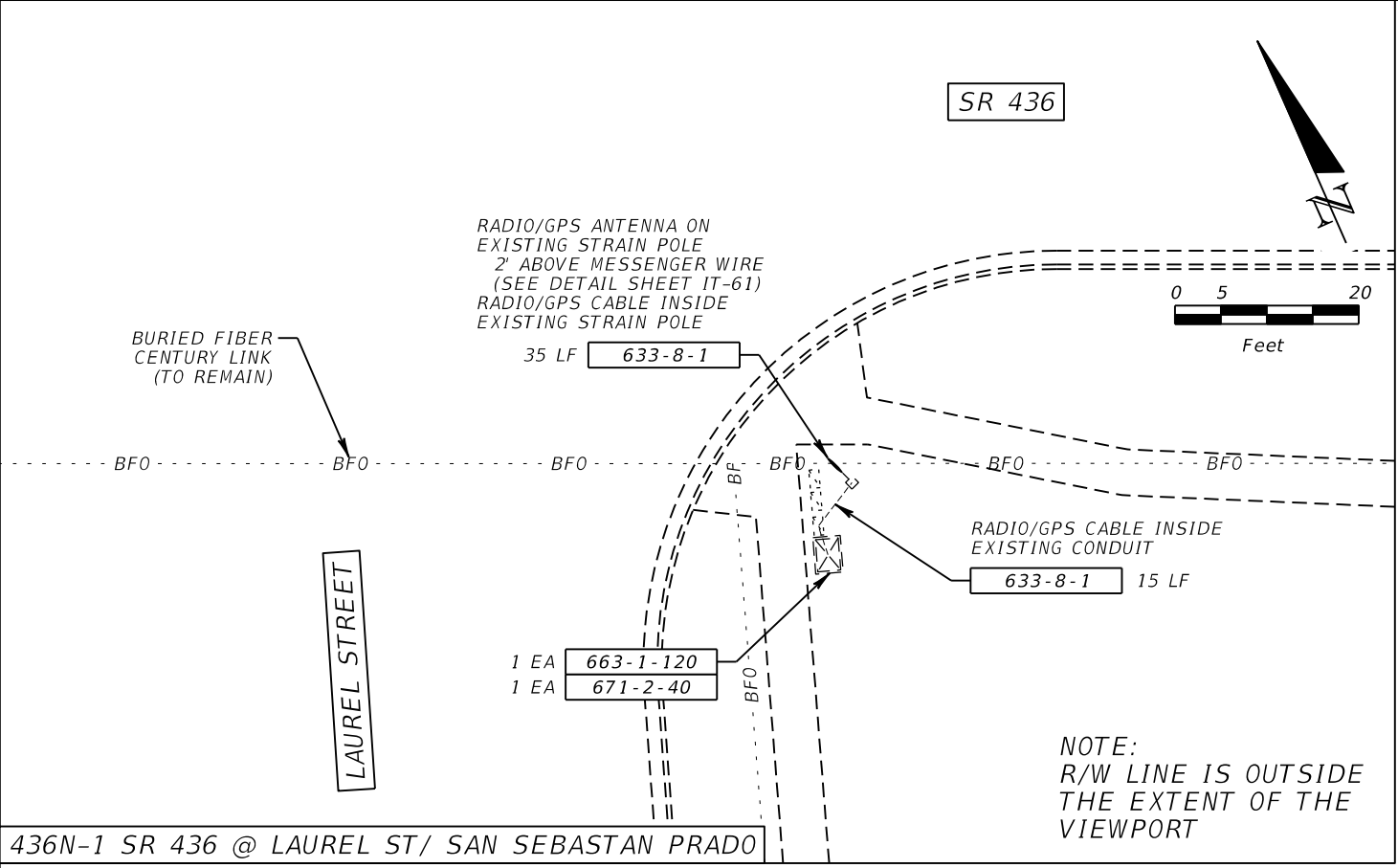
METRIC ENGINEERING, INC.
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

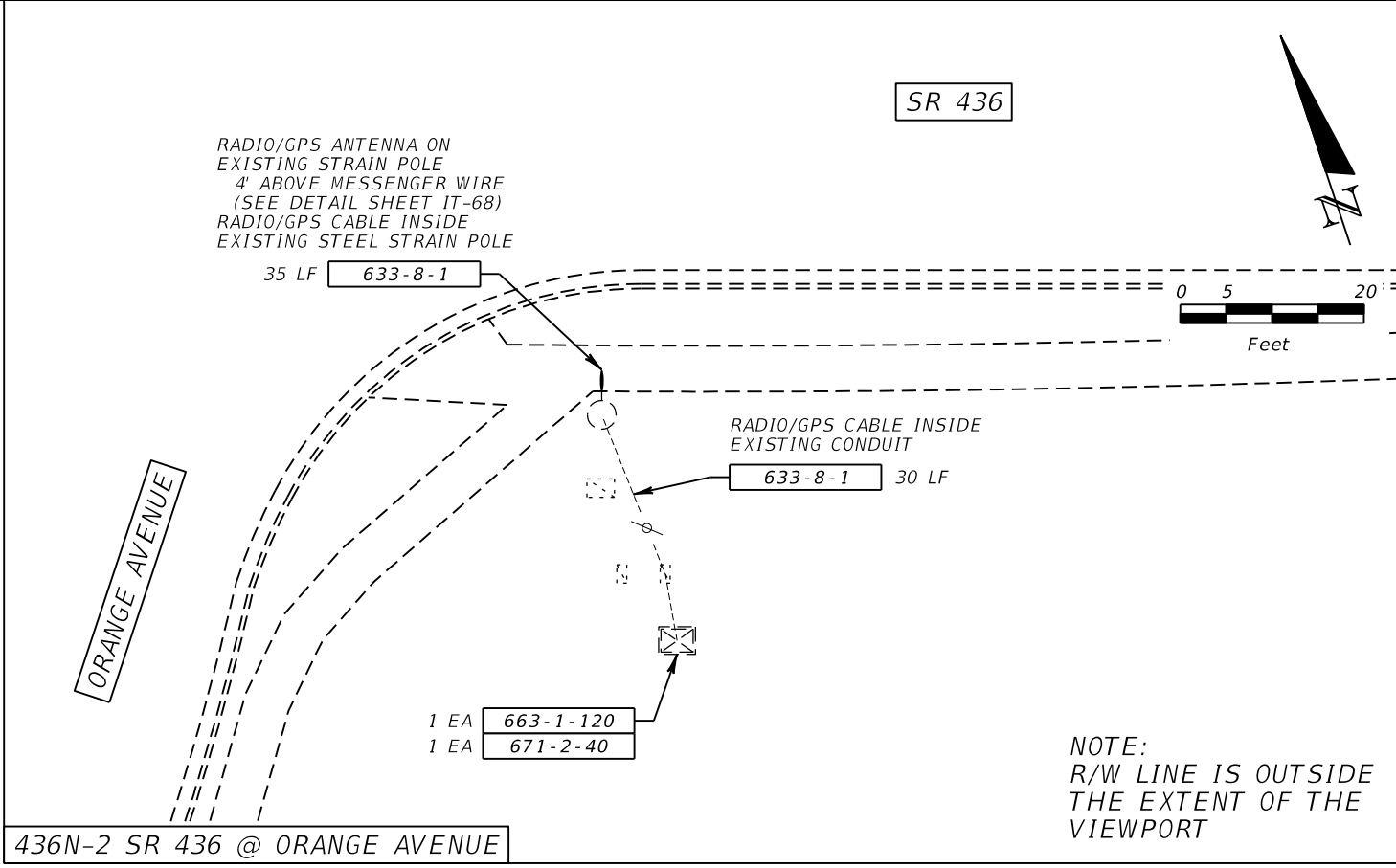
PLAN SHEET

SHEET NO.
IT-51

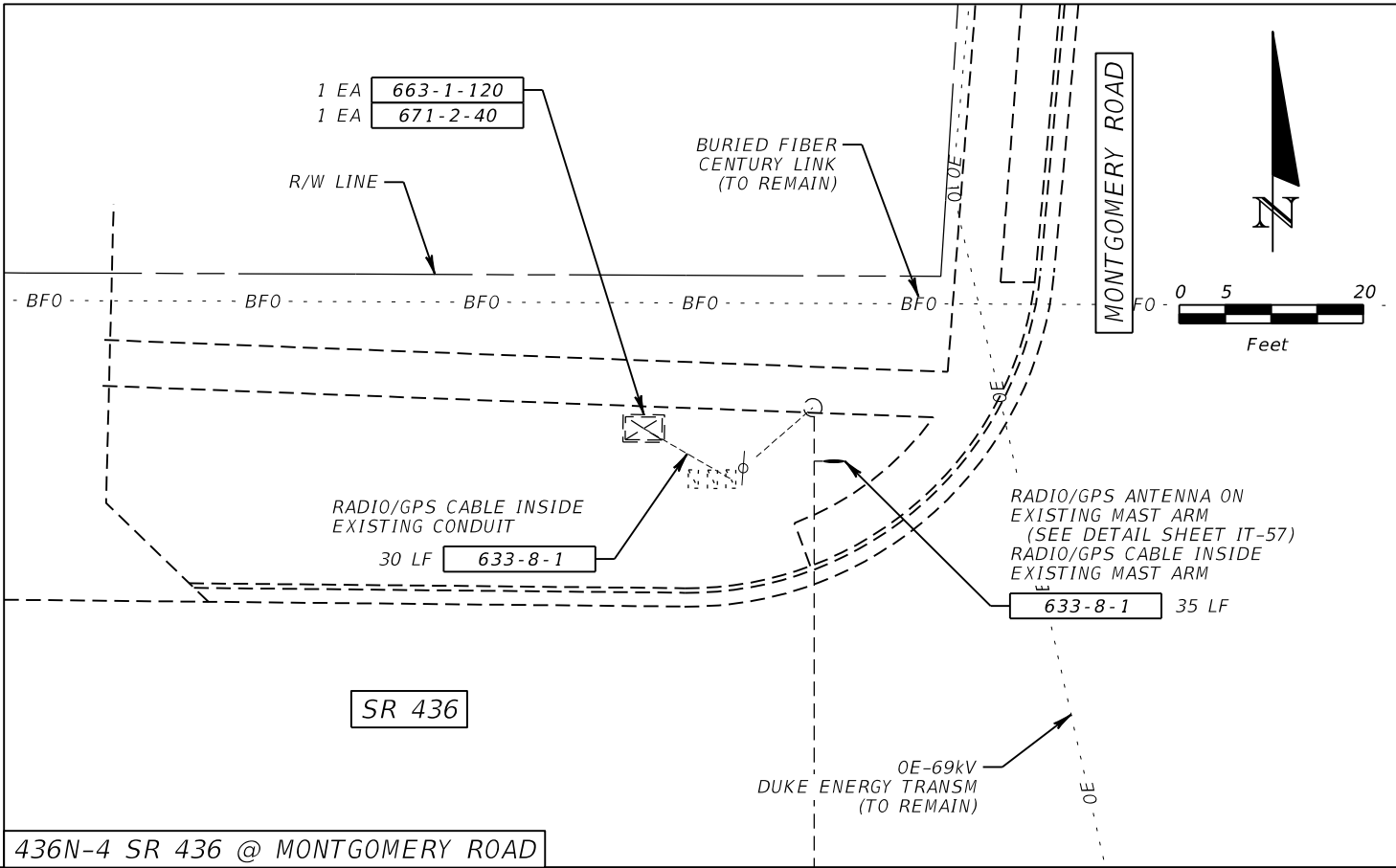
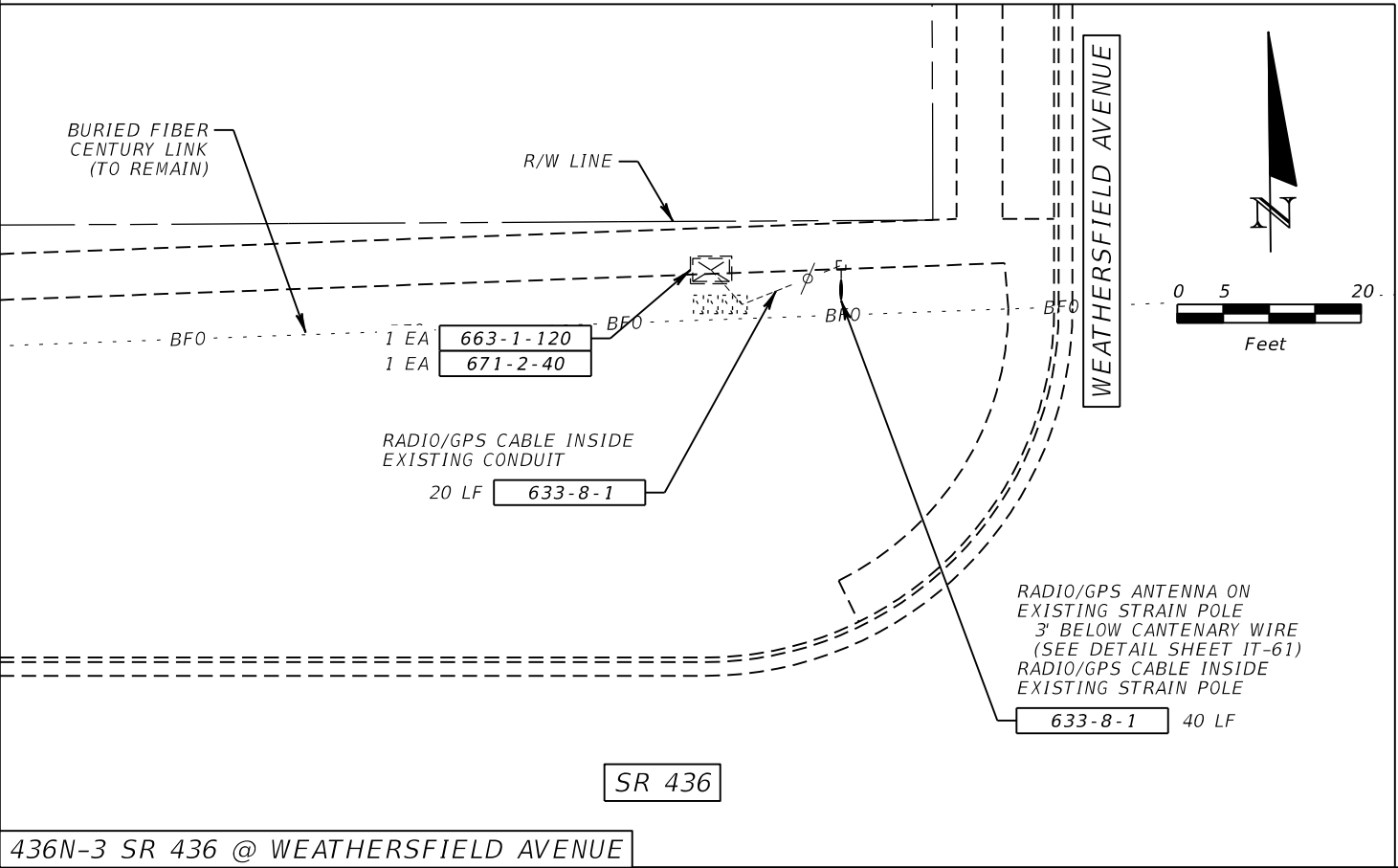
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436N-1 SR 436 @ LAUREL ST/ SAN SEBASTIAN PRADO



436N-2 SR 436 @ ORANGE AVENUE



| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

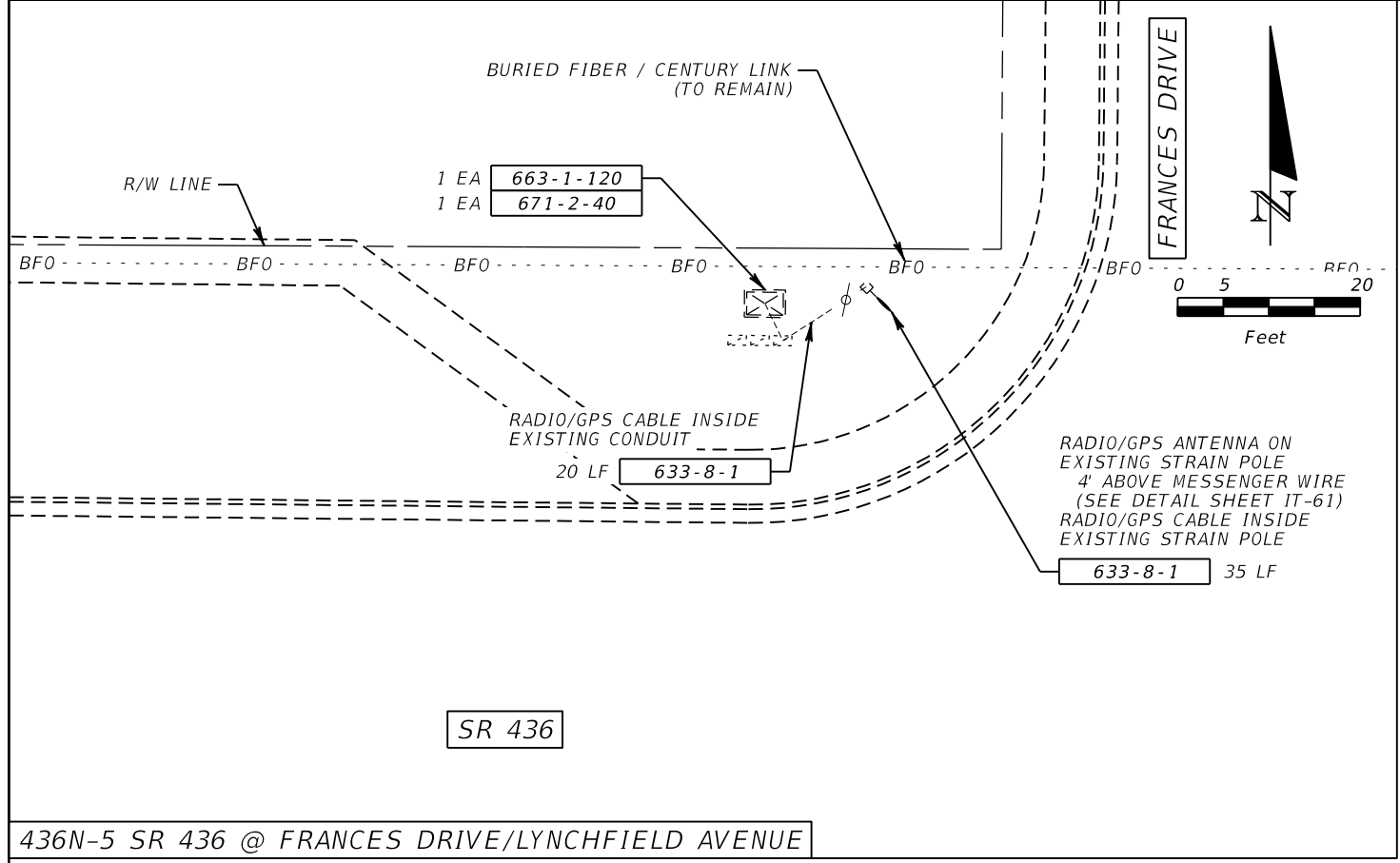
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| | | |
|--|--------------------|----------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

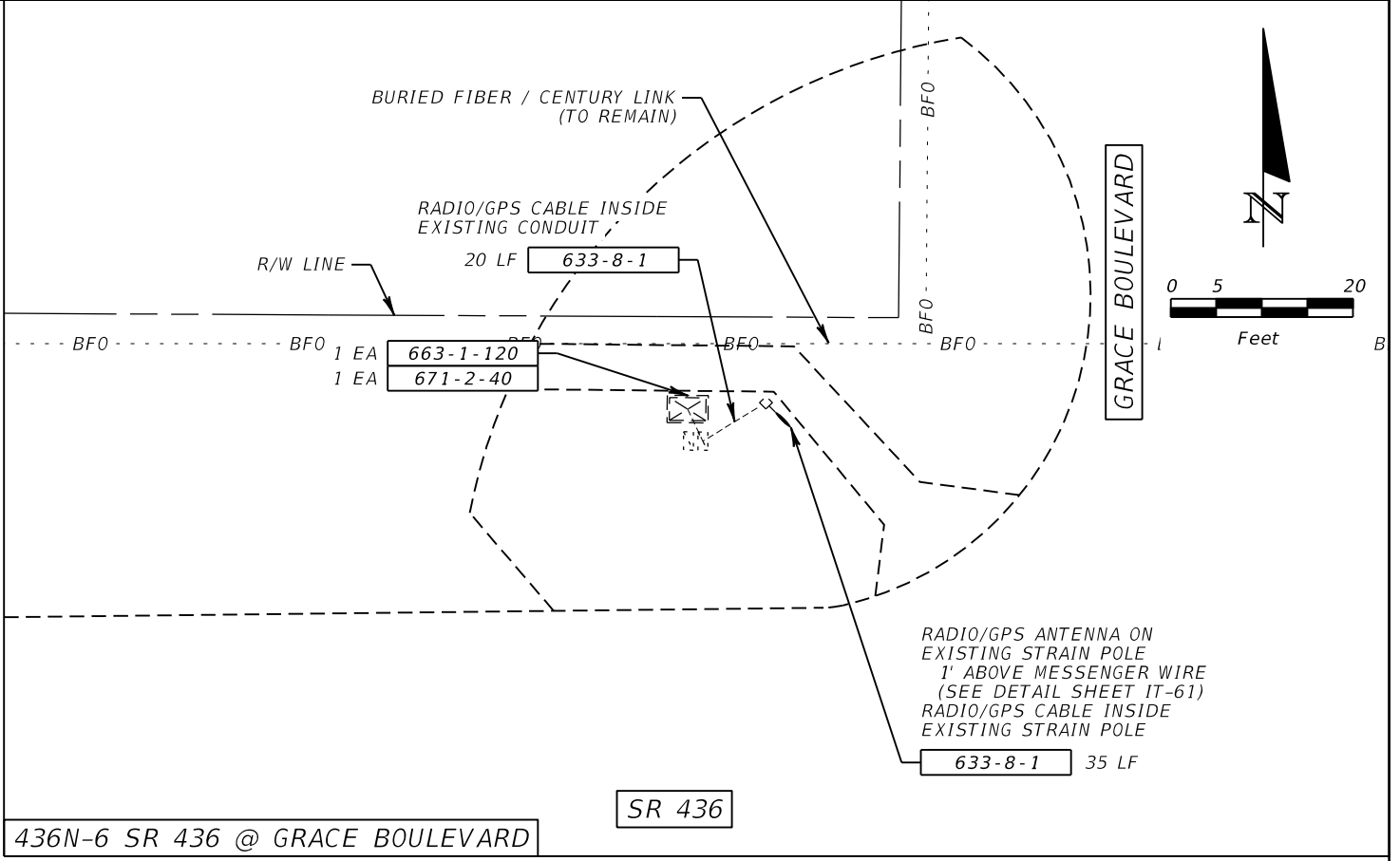
PLAN SHEET

SHEET
NO.
IT-52

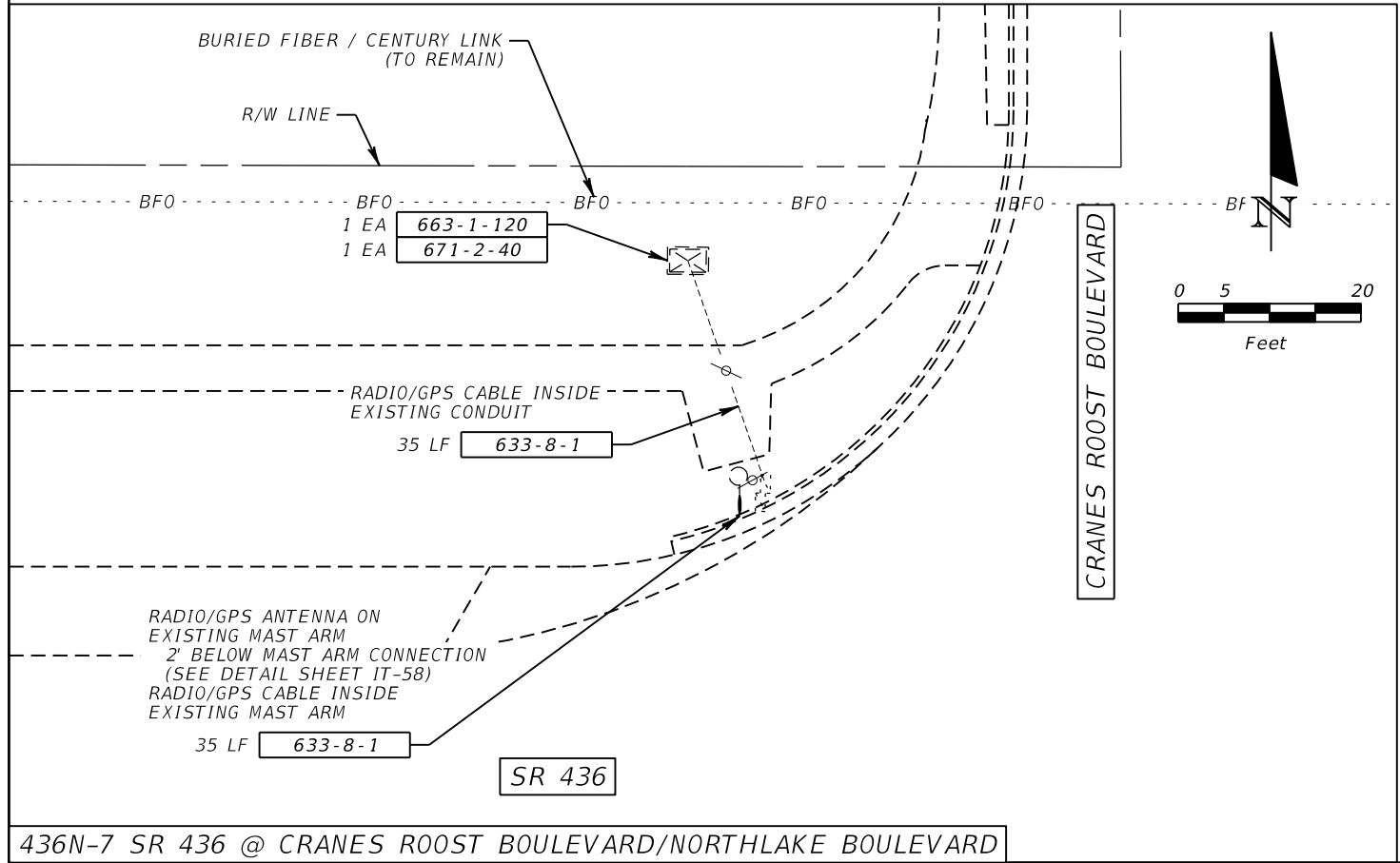
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



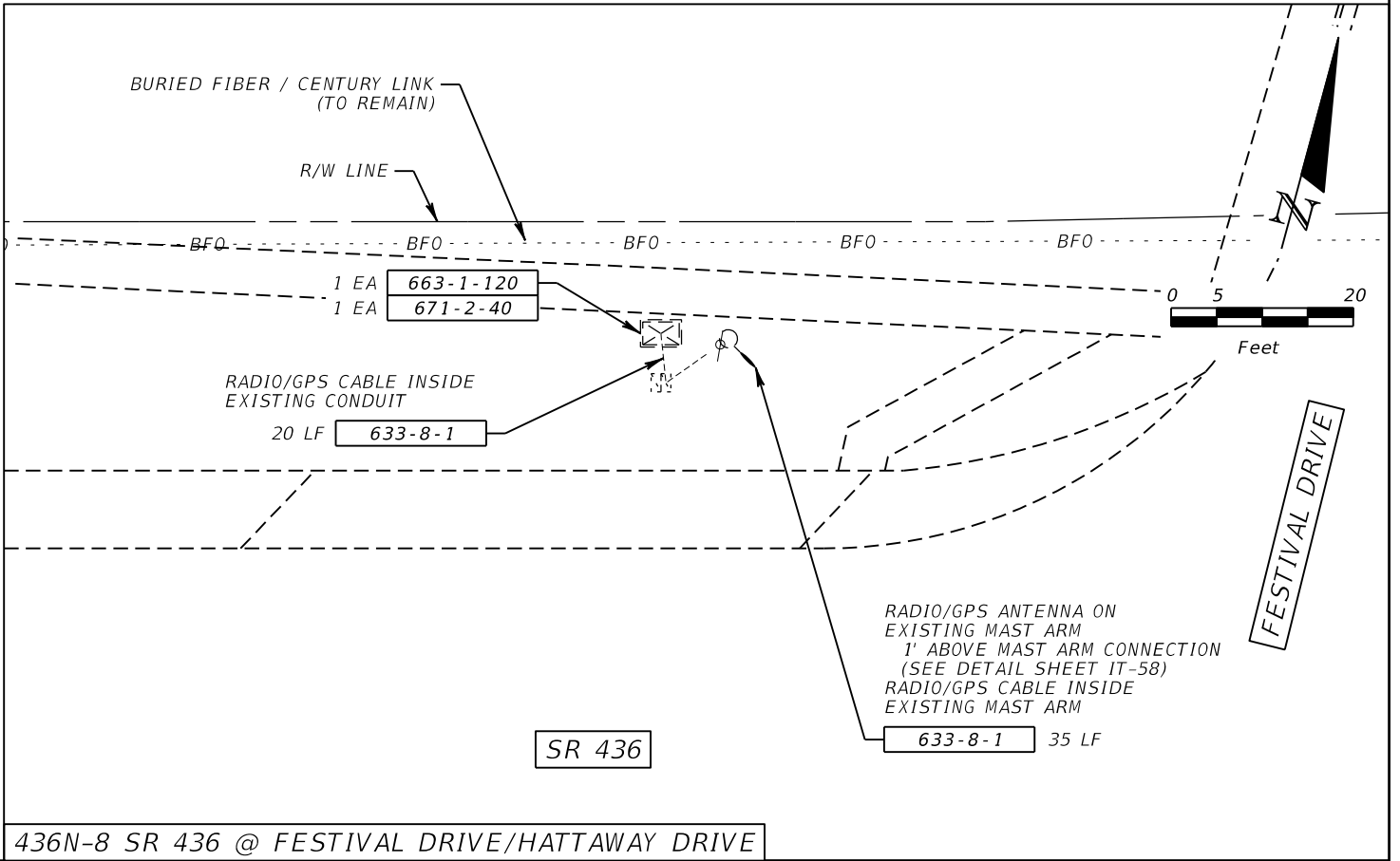
436N-5 SR 436 @ FRANCES DRIVE/LYNCHFIELD AVENUE



436N-6 SR 436 @ GRACE BOULEVARD



436N-7 SR 436 @ CRANES ROOST BOULEVARD/NORTHLAKE BOULEVARD



436N-8 SR 436 @ FESTIVAL DRIVE/HATTAWAY DRIVE

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

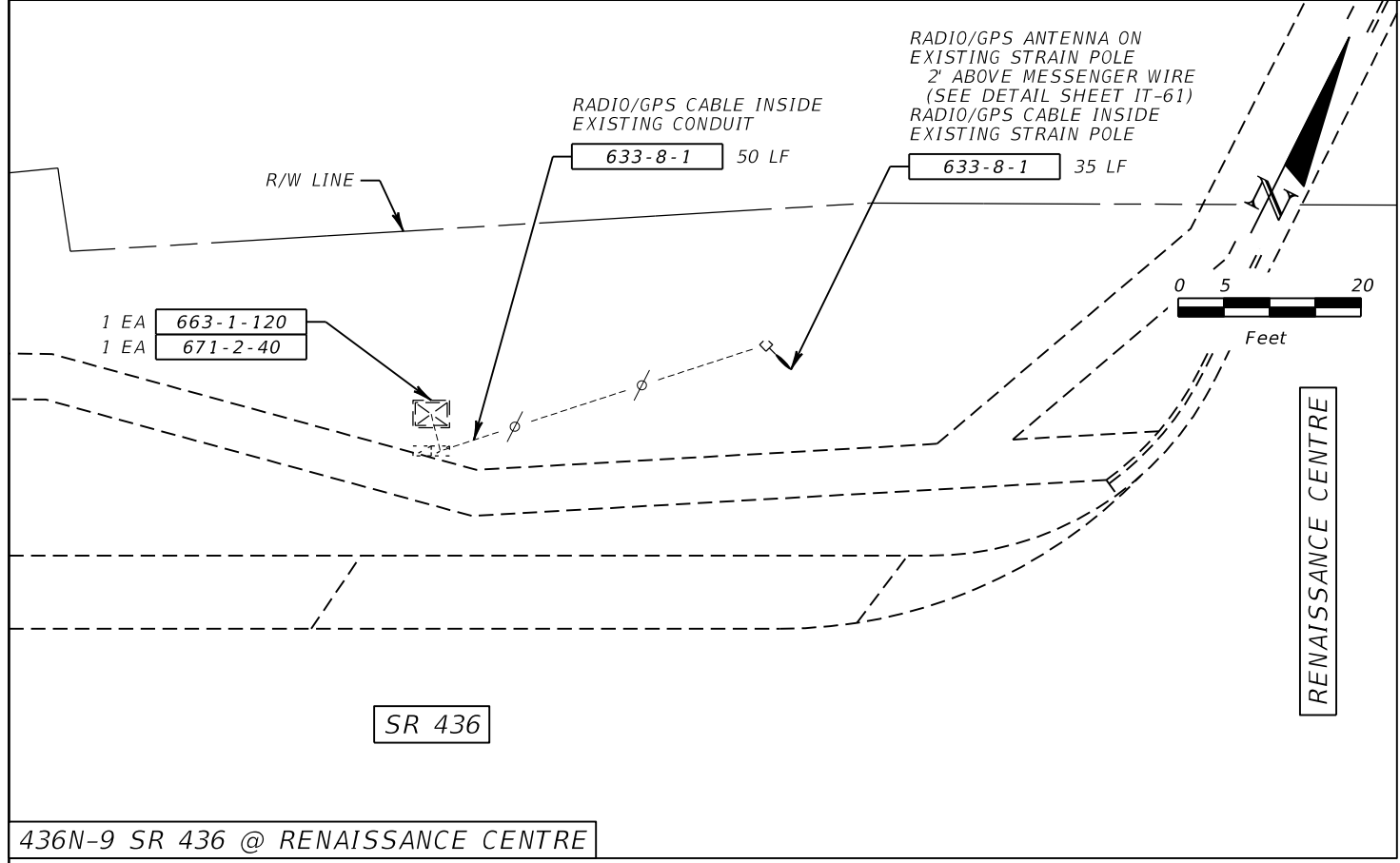
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

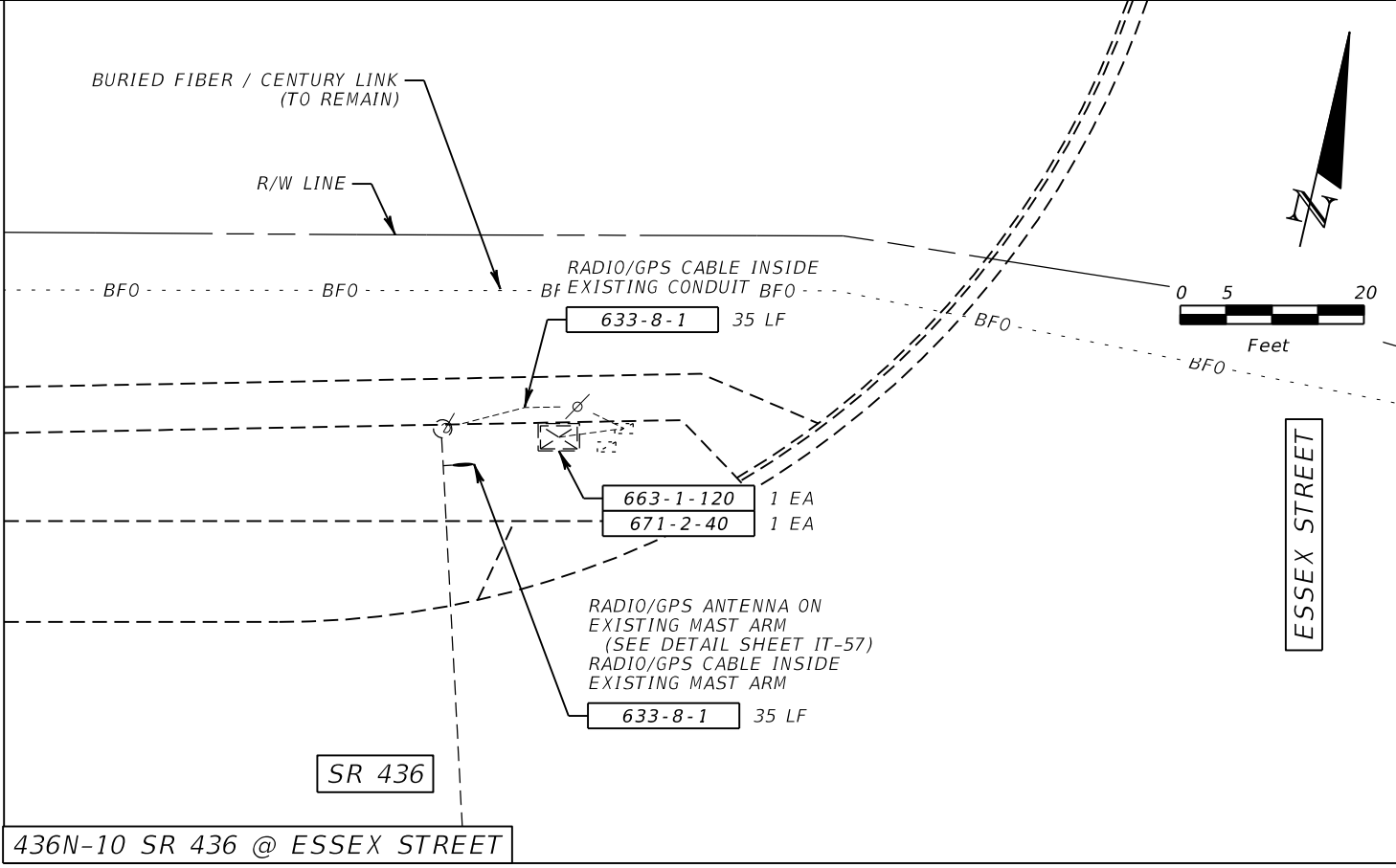
PLAN SHEET

SHEET NO.
IT-53

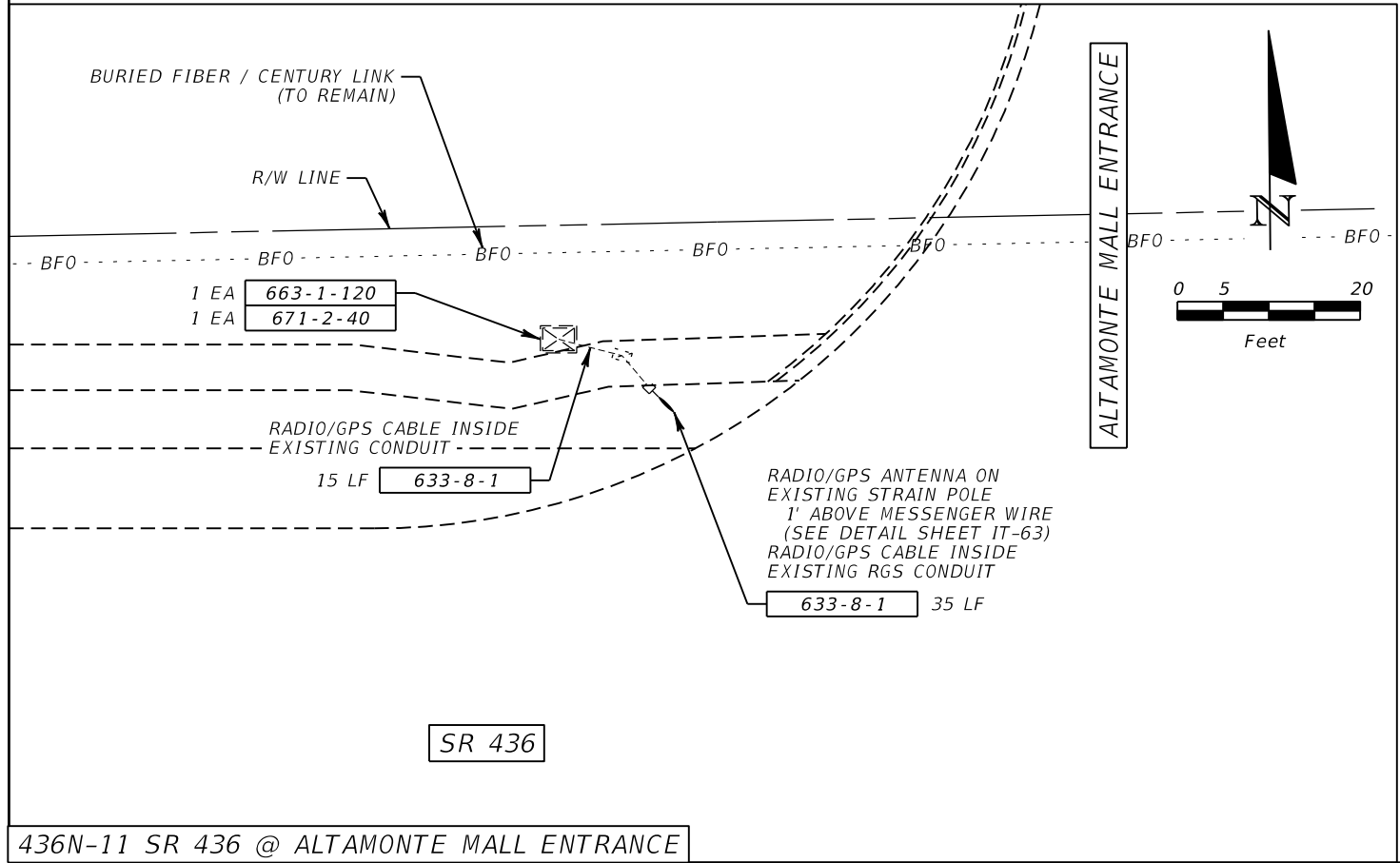
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



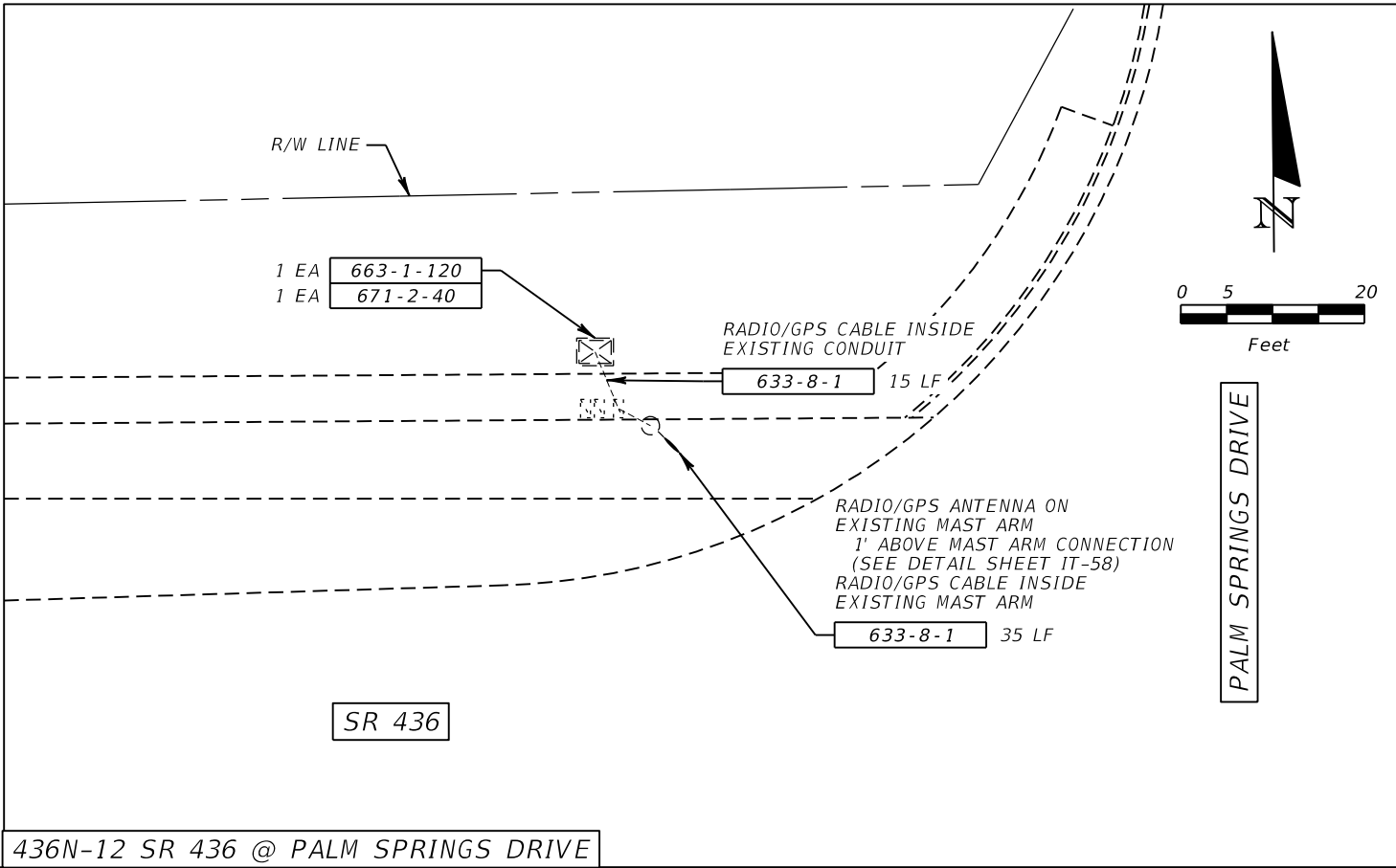
436N-9 SR 436 @ RENAISSANCE CENTRE



436N-10 SR 436 @ ESSEX STREET



436N-11 SR 436 @ ALTAMONTE MALL ENTRANCE



436N-12 SR 436 @ PALM SPRINGS DRIVE

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

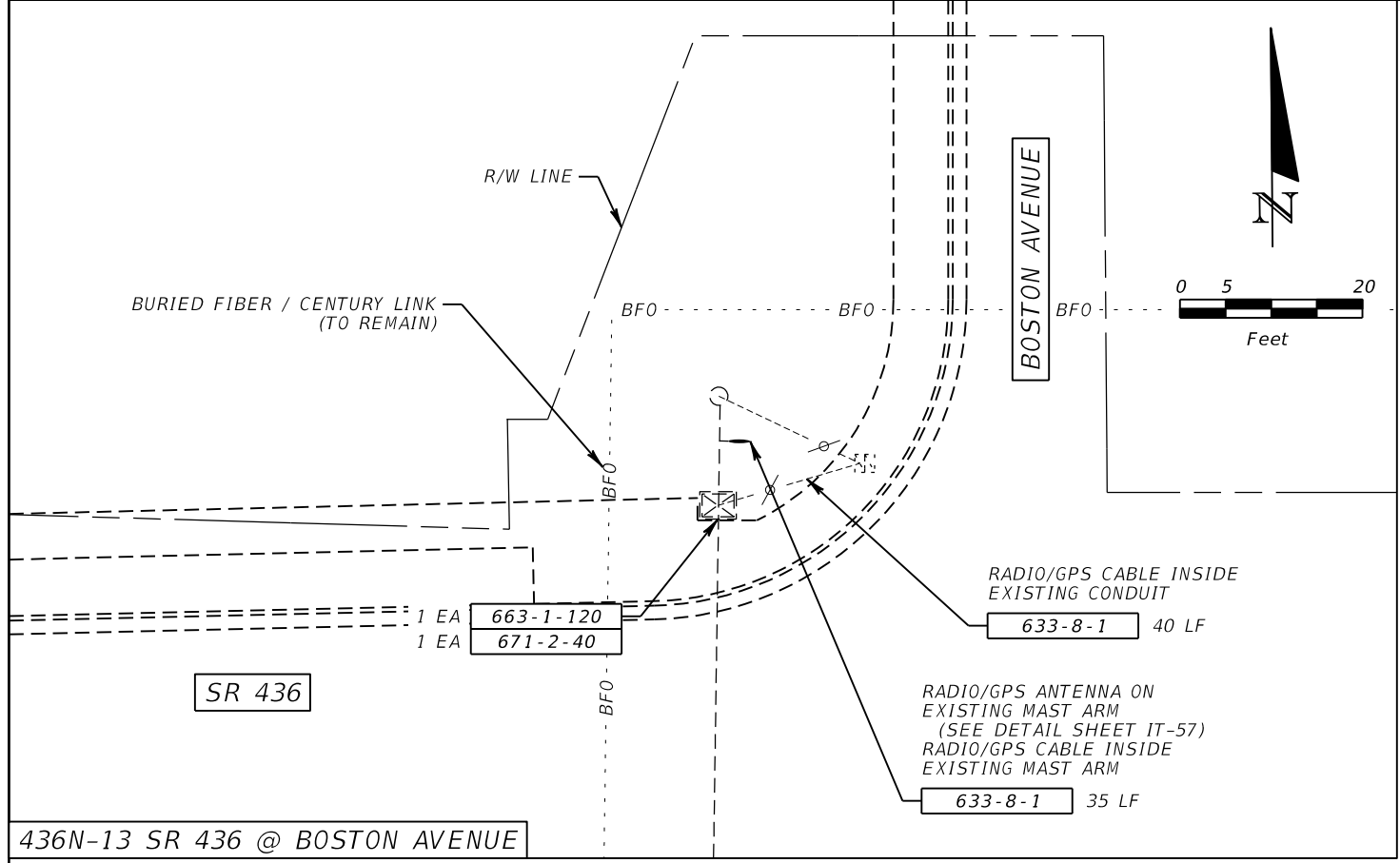
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
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 CERTIFICATE OF AUTHORIZATION 2294

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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

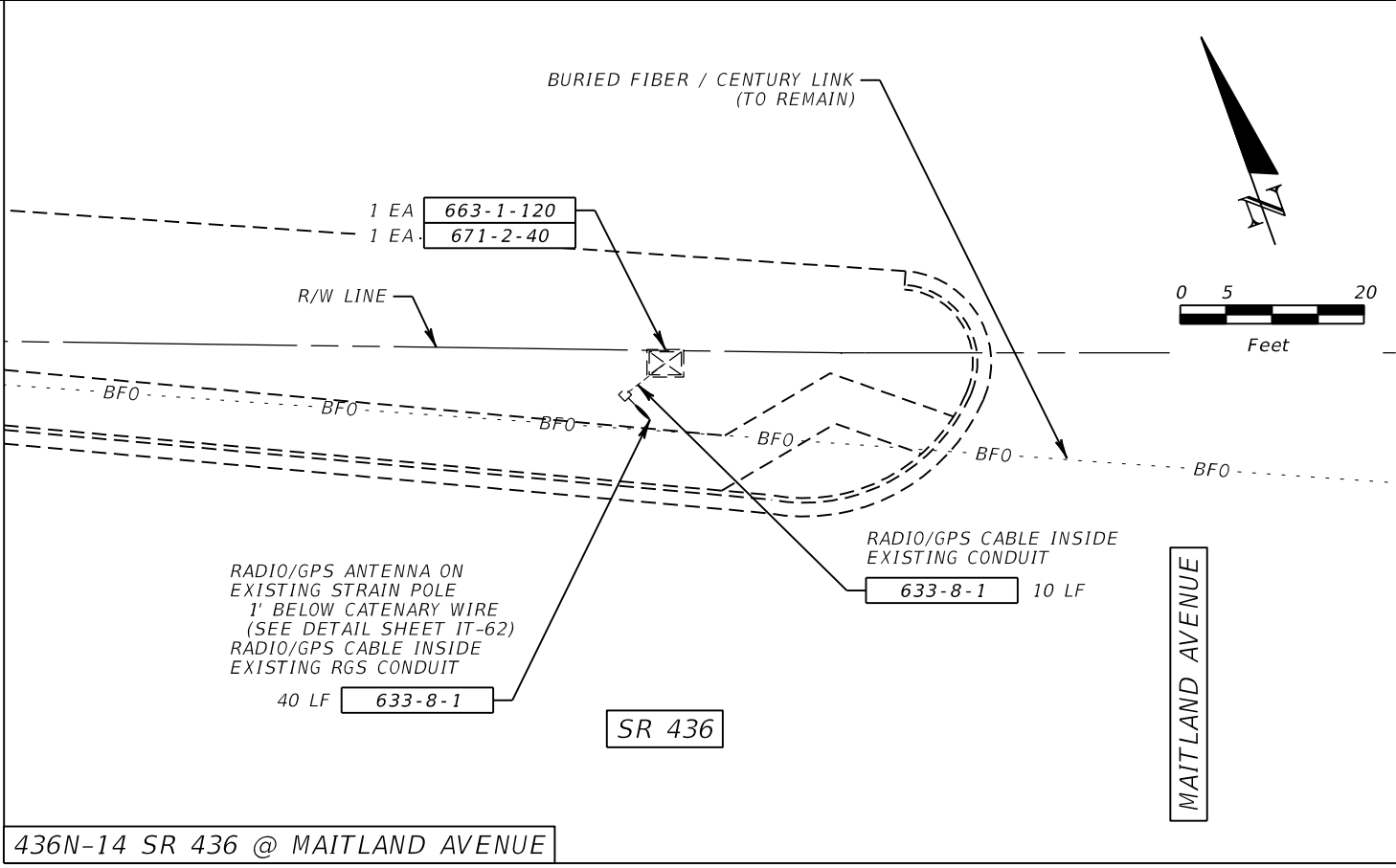
PLAN SHEET

SHEET NO.
IT-54

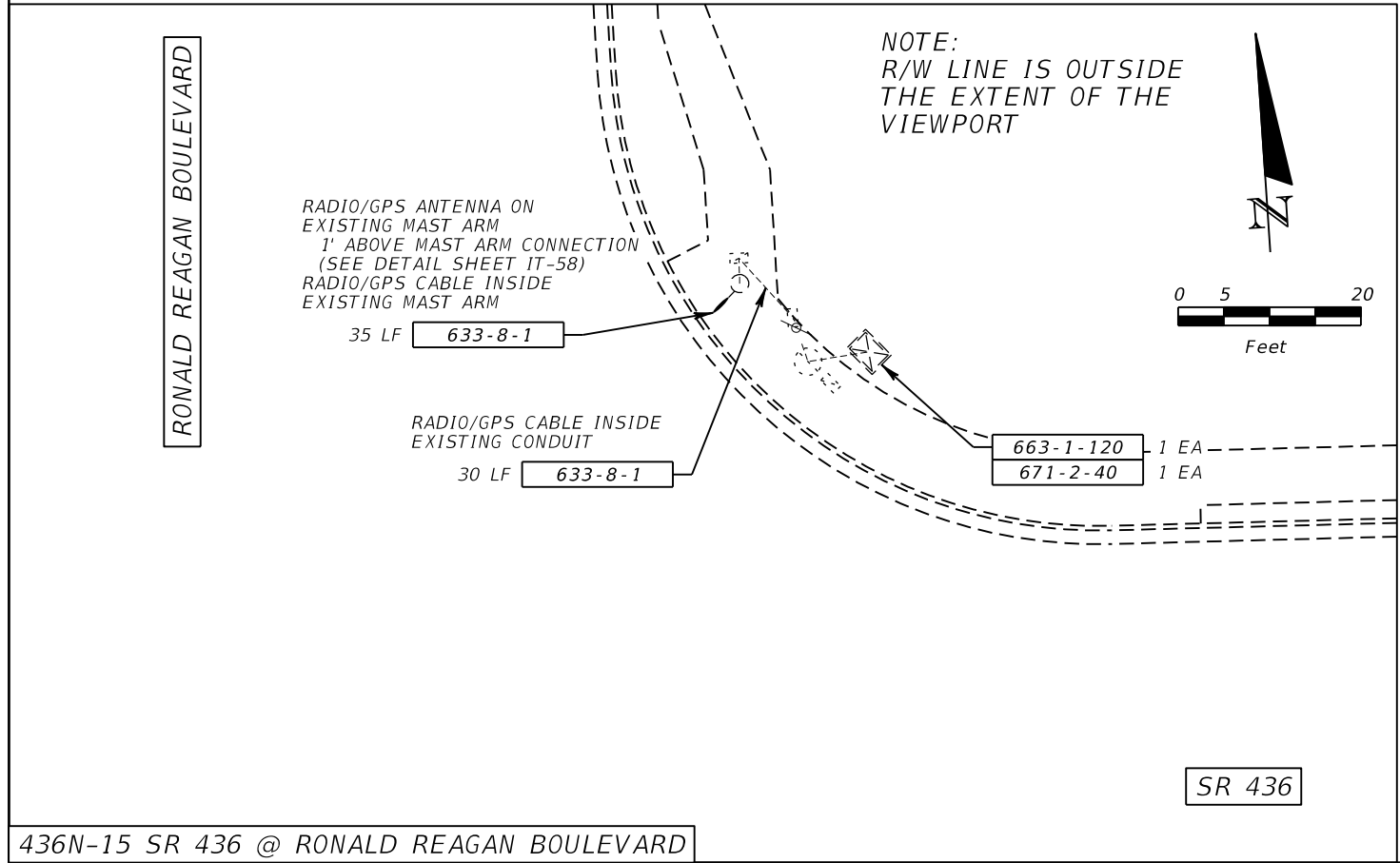
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



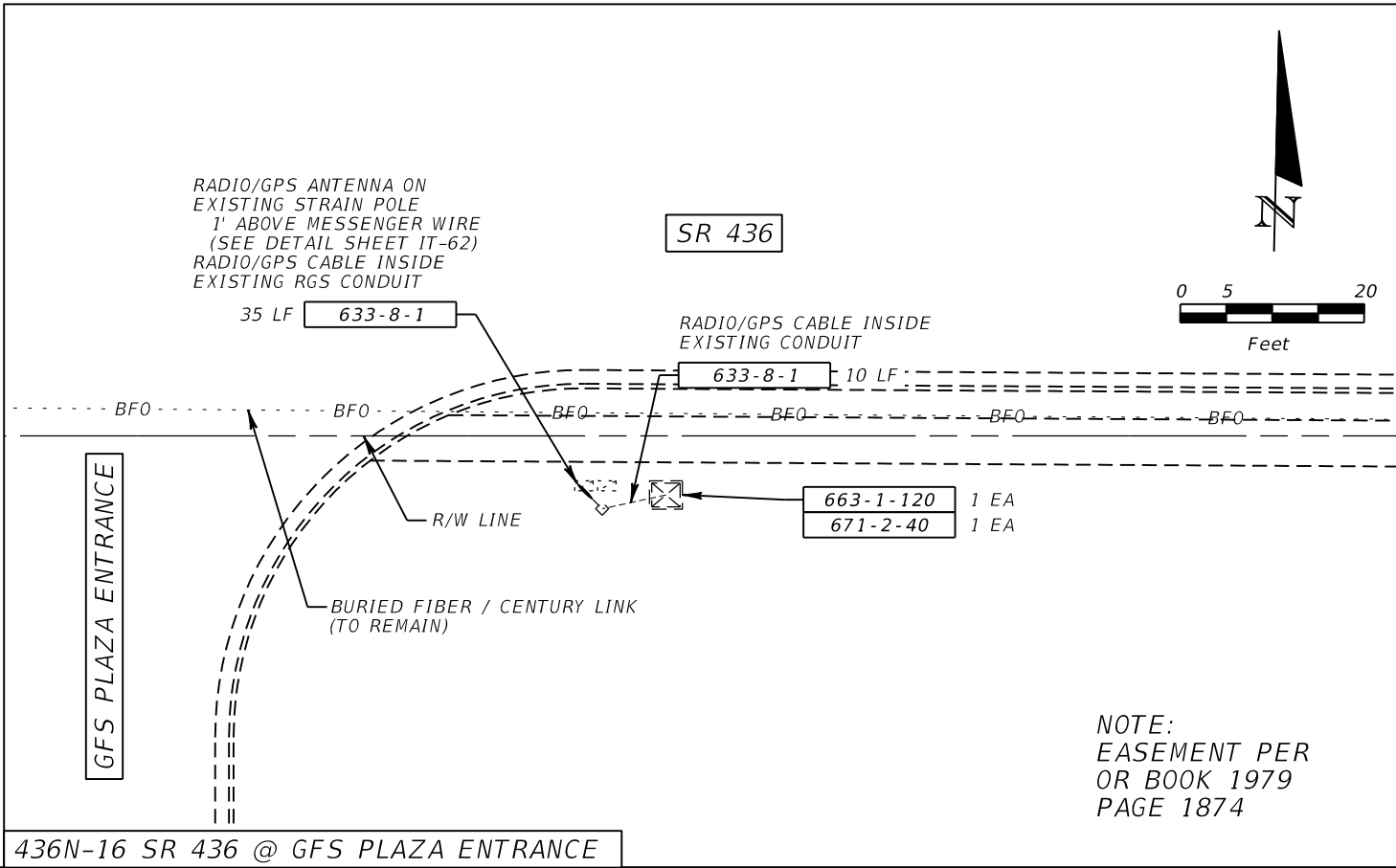
436N-13 SR 436 @ BOSTON AVENUE



436N-14 SR 436 @ MAITLAND AVENUE



436N-15 SR 436 @ RONALD REAGAN BOULEVARD



436N-16 SR 436 @ GFS PLAZA ENTRANCE

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

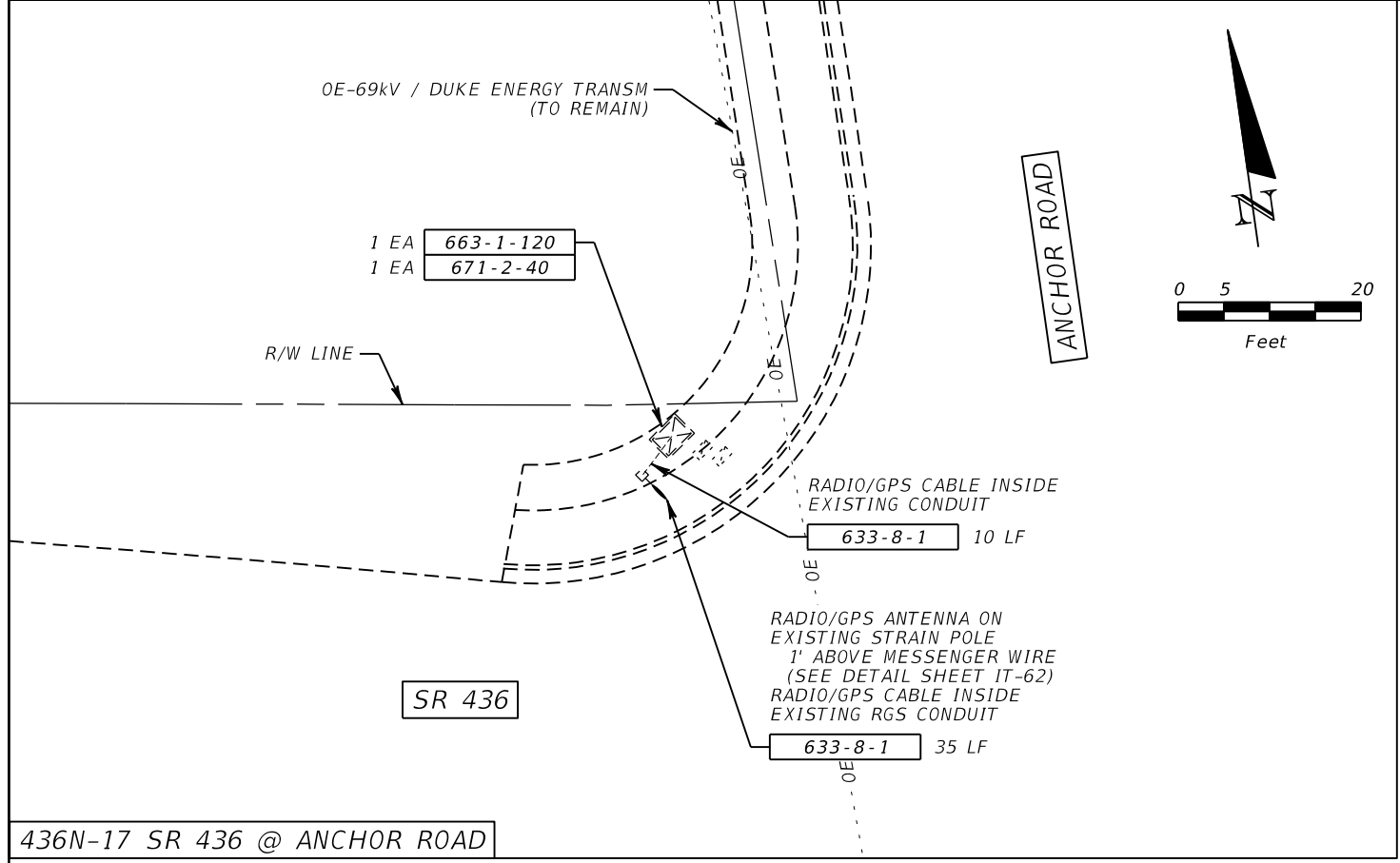
METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

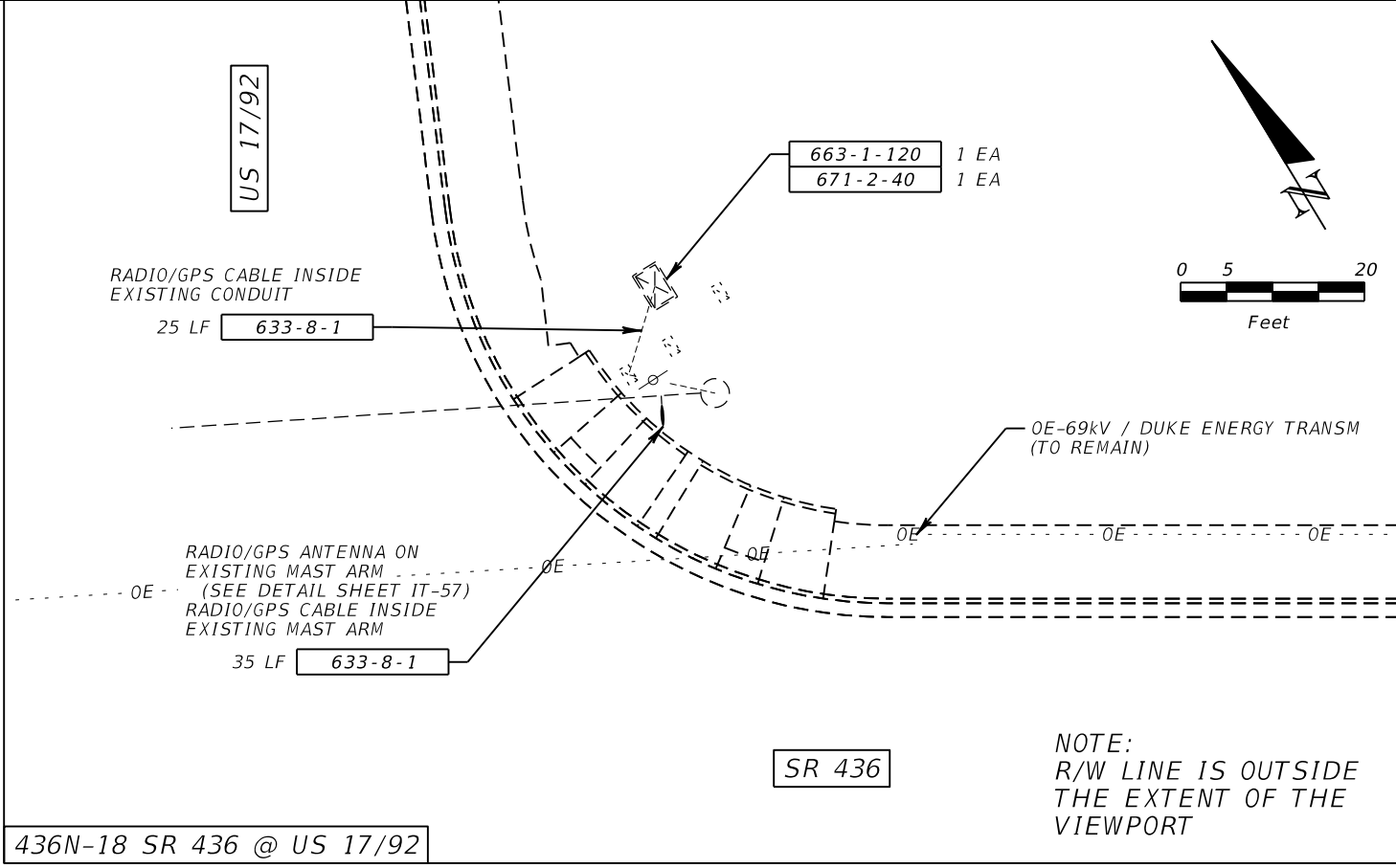
PLAN SHEET

SHEET NO.
IT-55

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436N-17 SR 436 @ ANCHOR ROAD



436N-18 SR 436 @ US 17/92

NOTE:
R/W LINE IS OUTSIDE
THE EXTENT OF THE
VIEWPORT

INTENTIONALLY LEFT BLANK

INTENTIONALLY LEFT BLANK

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

METRIC ENGINEERING, INC.
JULIO A. ALEGRE, P.E. # 66265
615 CRESCENT EXECUTIVE CT
SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294

| | | |
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

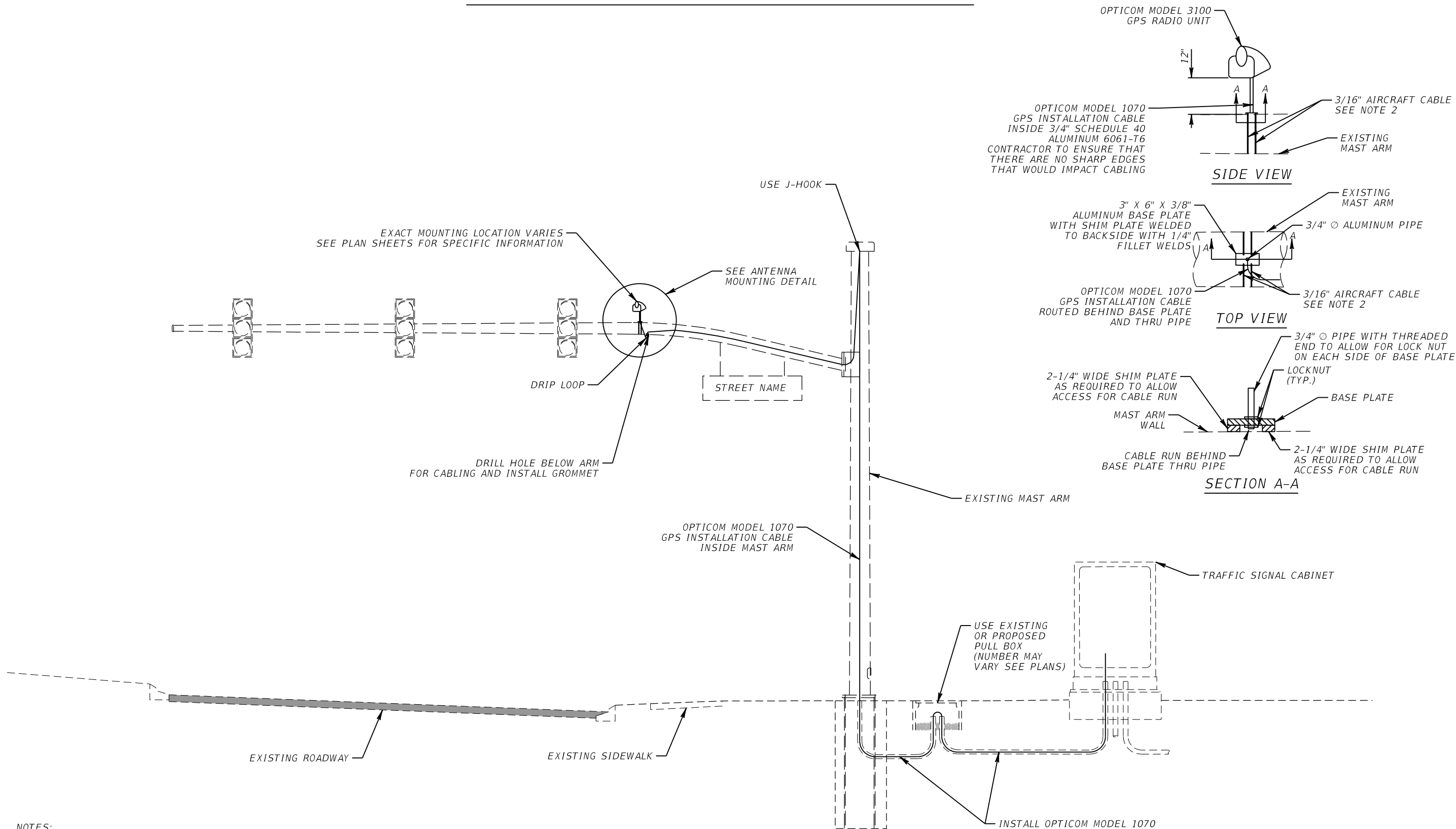
PLAN SHEET

SHEET NO.
IT-56

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MAST ARM MOUNTED GPS USING EXISTING CONDUIT #1

ANTENNA MOUNTING DETAIL



NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

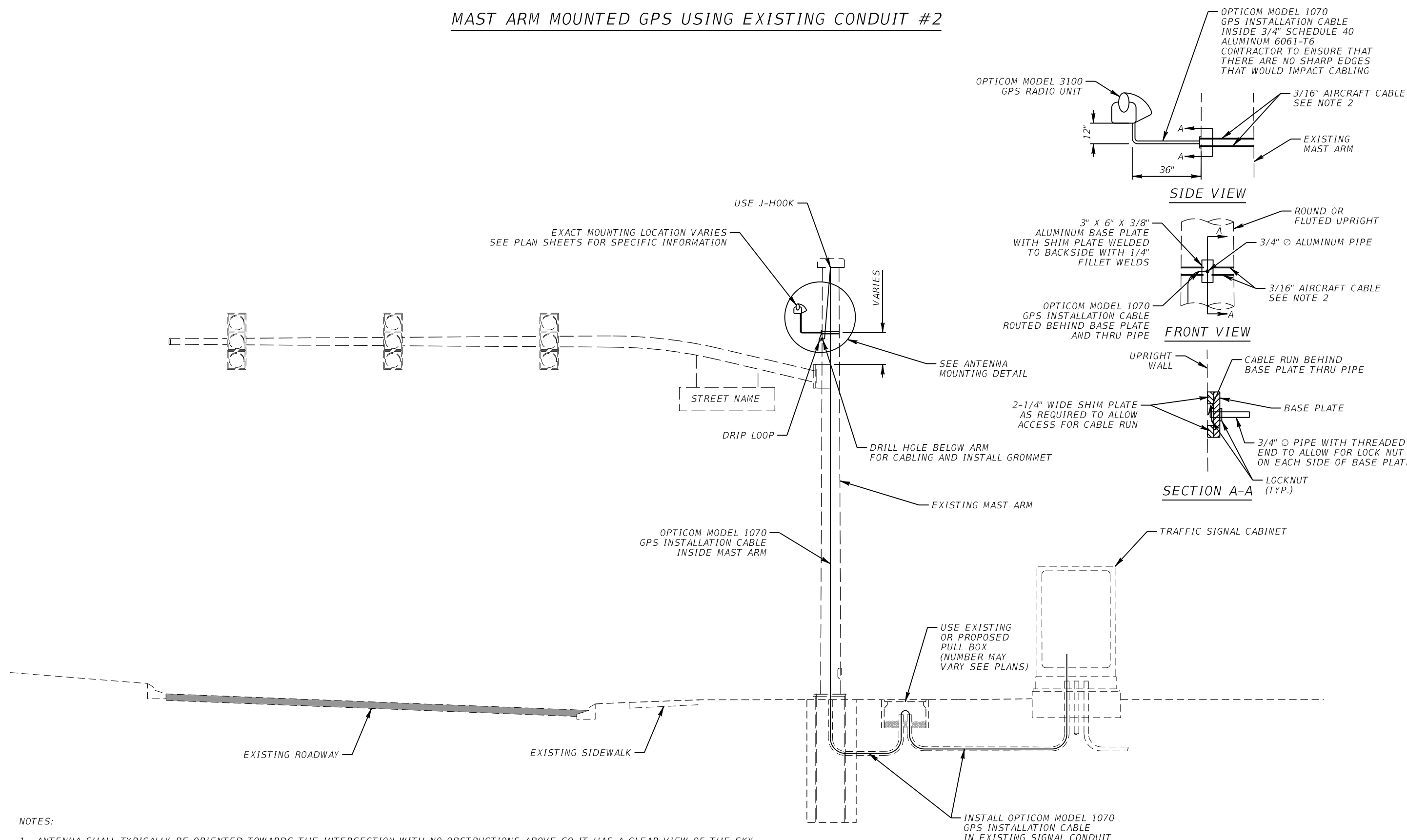
INSTALL OPTICOM MODEL 1070 GPS INSTALLATION CABLE IN EXISTING SIGNAL CONDUIT (RUN TO CABINET MAY NOT GO THROUGH AN EXISTING PULL BOX)

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL SHEET NO. IT-57 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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MAST ARM MOUNTED GPS USING EXISTING CONDUIT #2

ANTENNA MOUNTING DETAIL



NOTES:

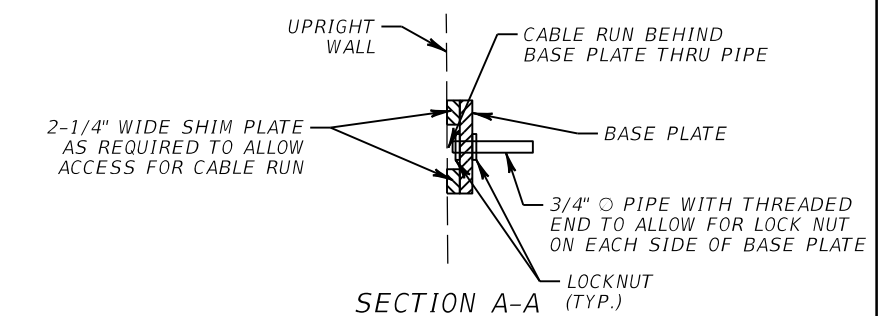
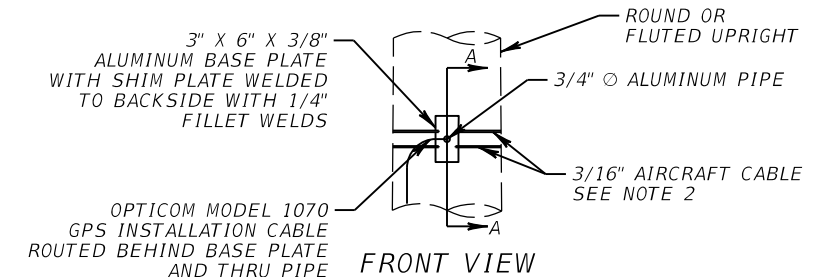
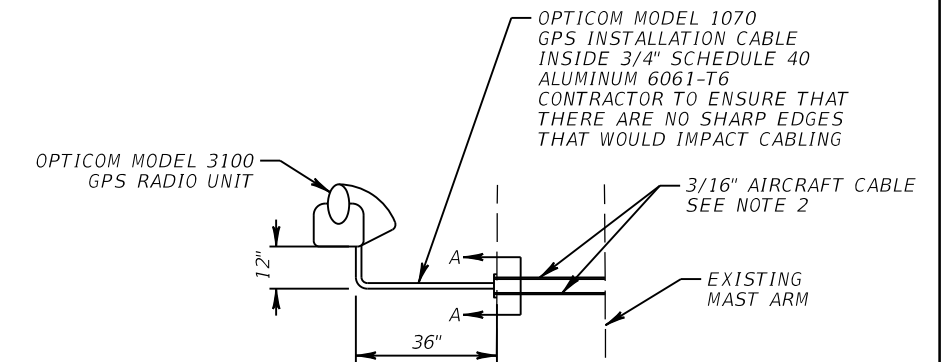
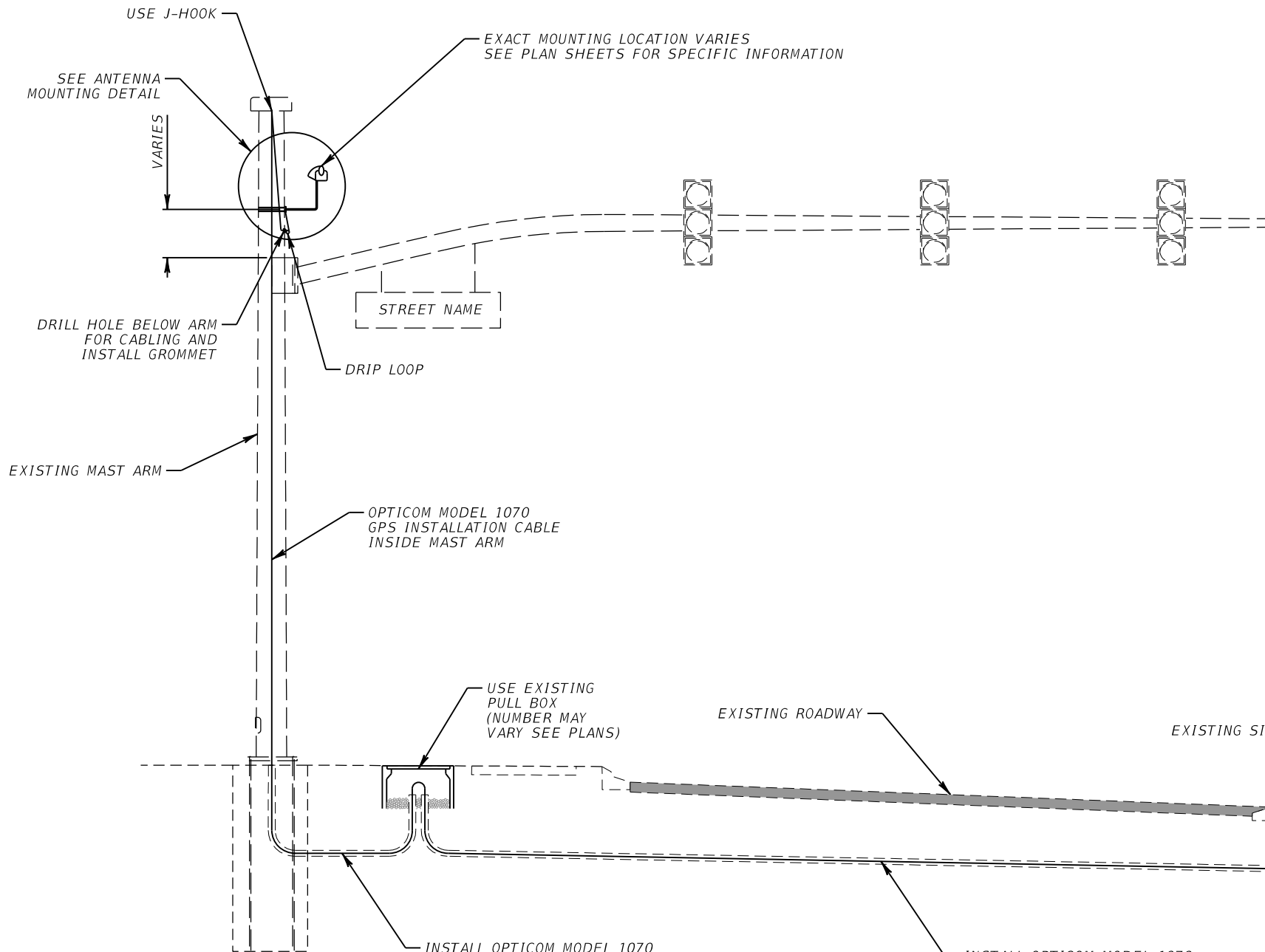
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-58 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-------------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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MAST ARM MOUNTED GPS USING EXISTING CONDUIT #3

ANTENNA MOUNTING DETAIL



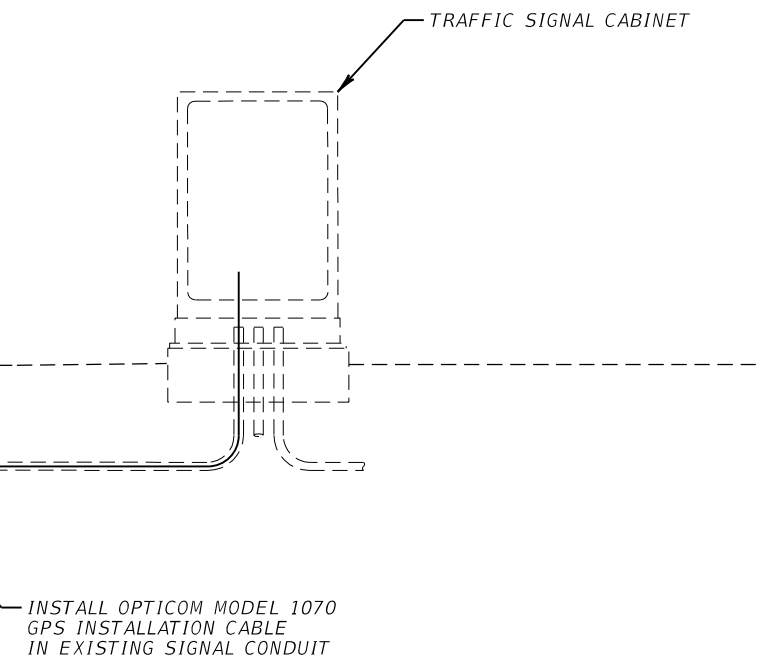
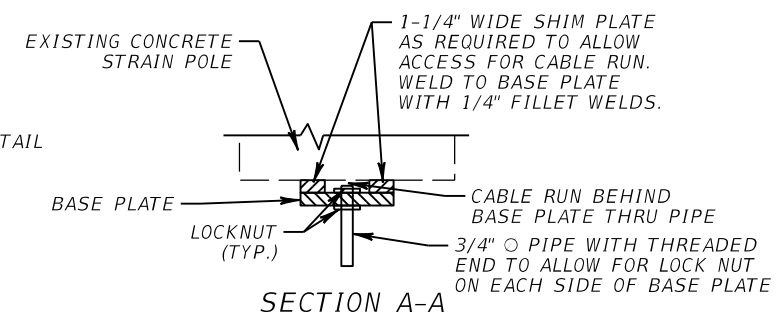
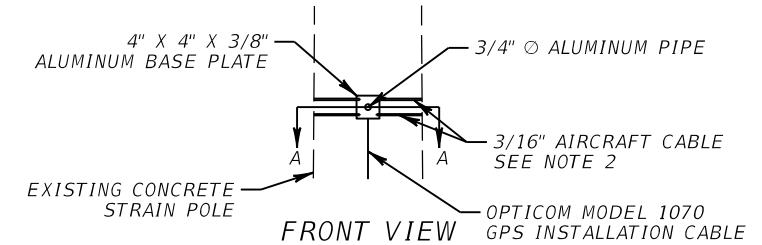
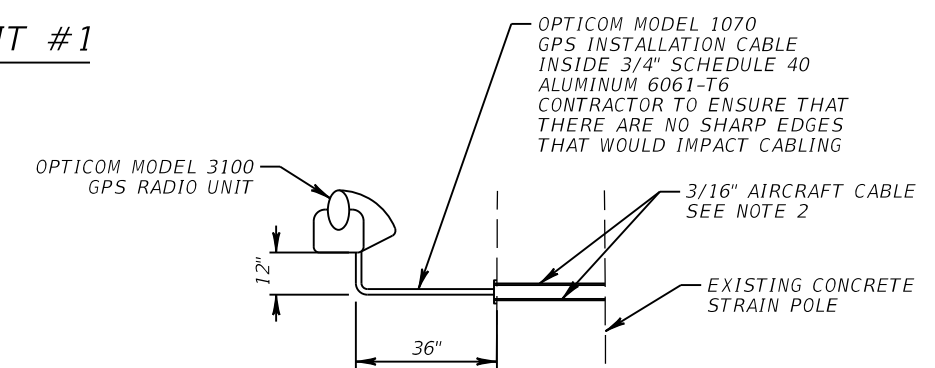
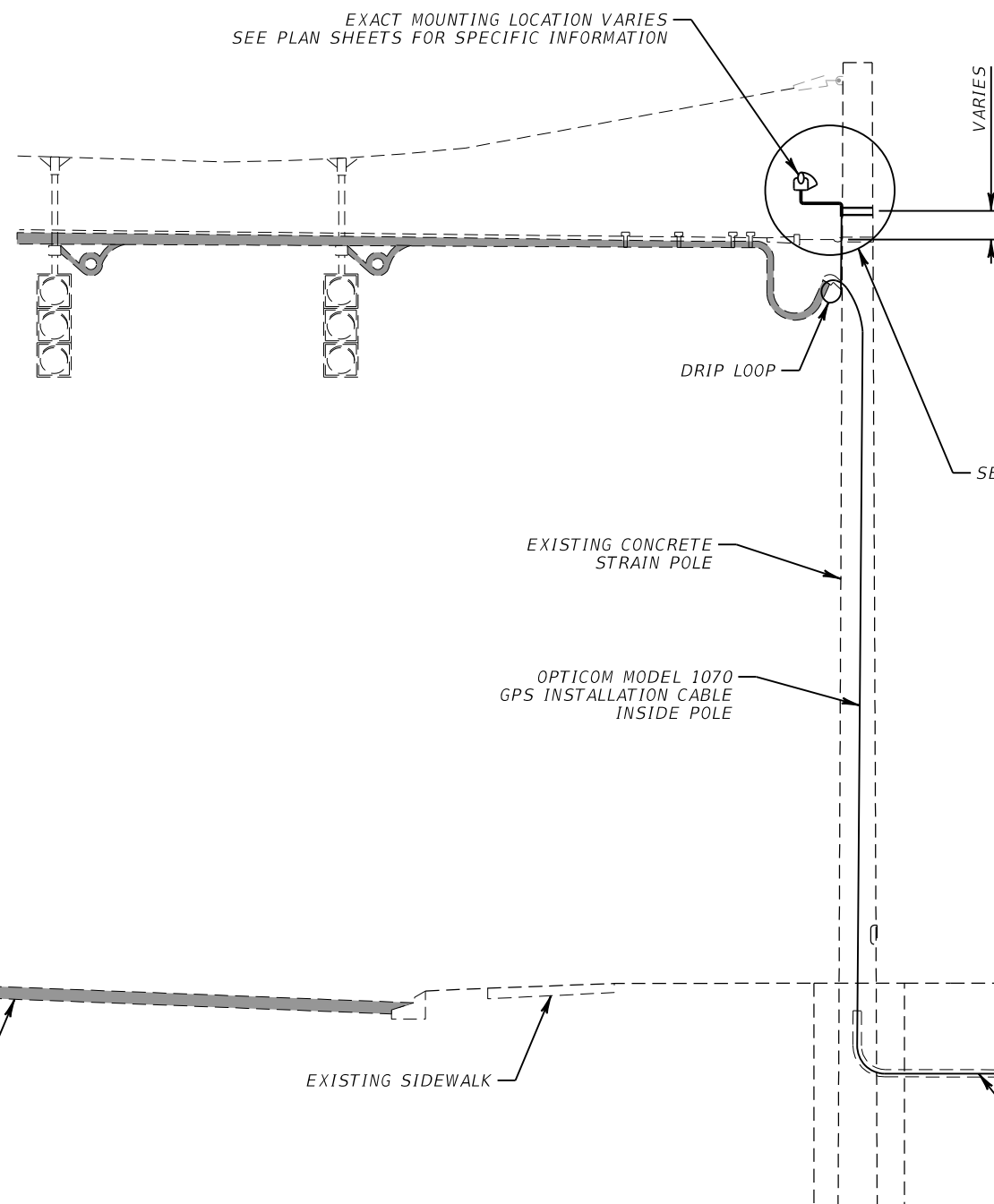
- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. IT-59 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--------------------------------|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #1

ANTENNA MOUNTING DETAIL



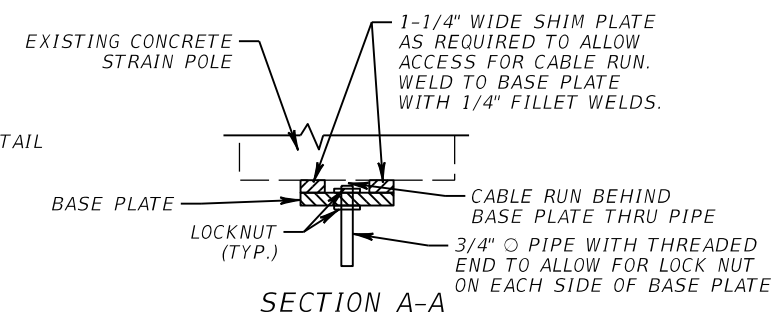
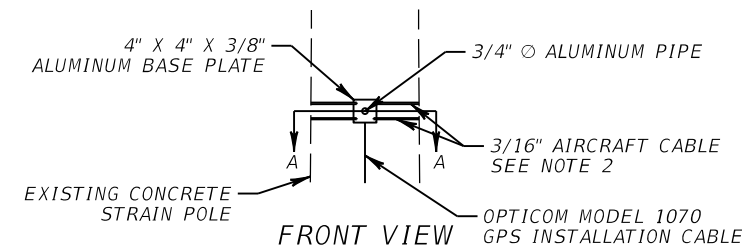
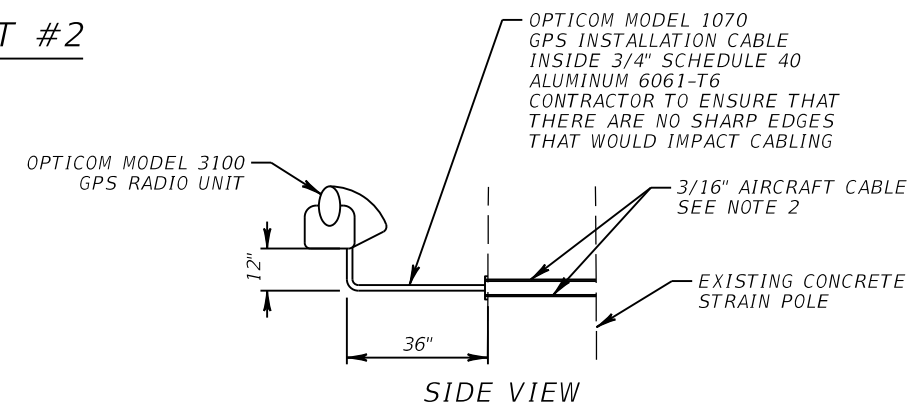
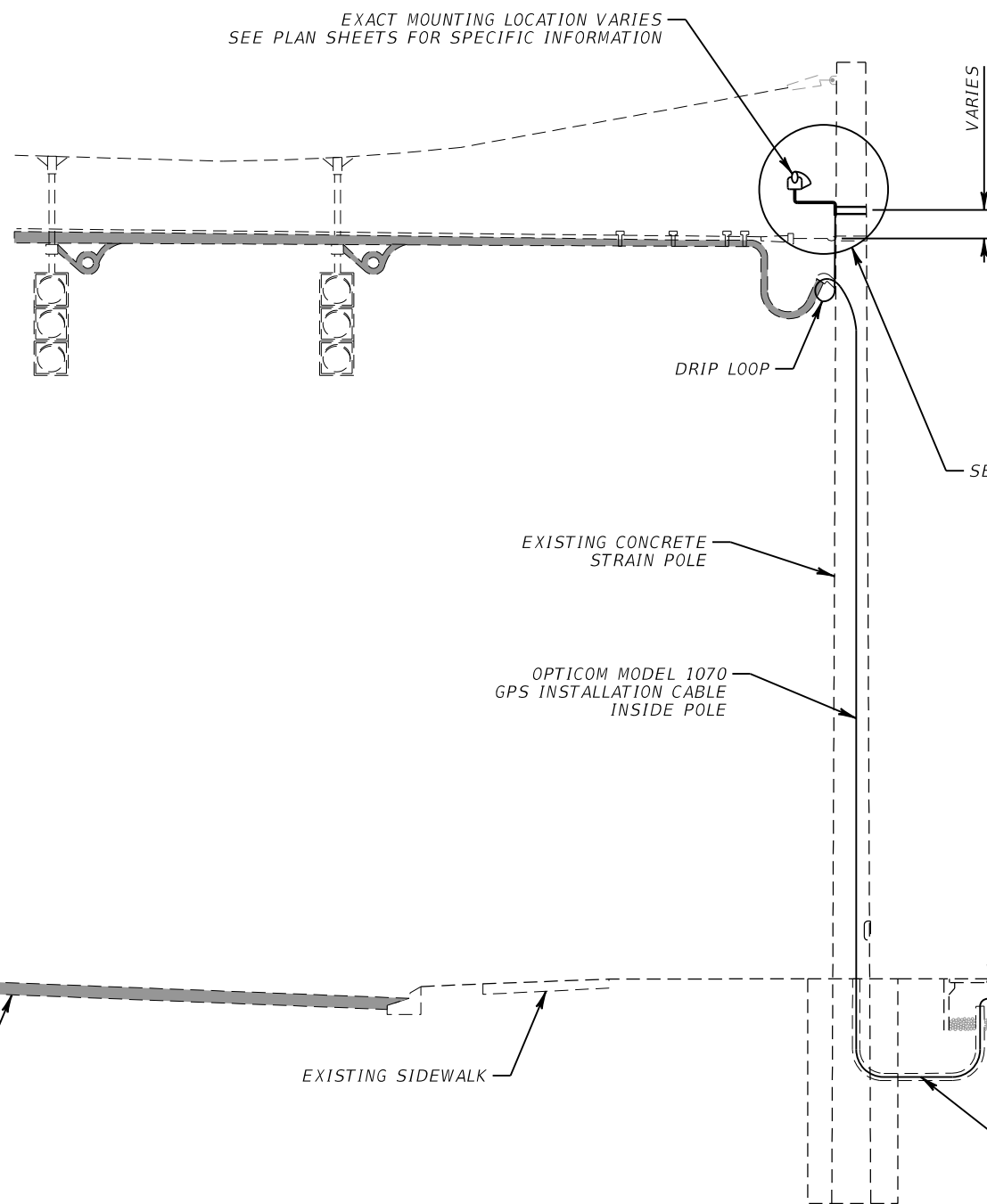
- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------------------|----------------------|--------------------------------|--------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | IT-60 |

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #2

ANTENNA MOUNTING DETAIL



USE EXISTING PULL BOX/ FIBER OPTIC PULL BOX/ SPLICE VAULT (NUMBER MAY VARY SEE PLANS)

INSTALL OPTICOM MODEL 1070 GPS INSTALLATION CABLE IN EXISTING SIGNAL CONDUIT

NOTES:

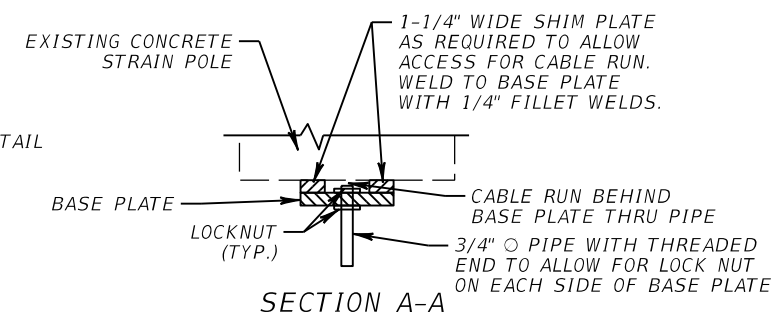
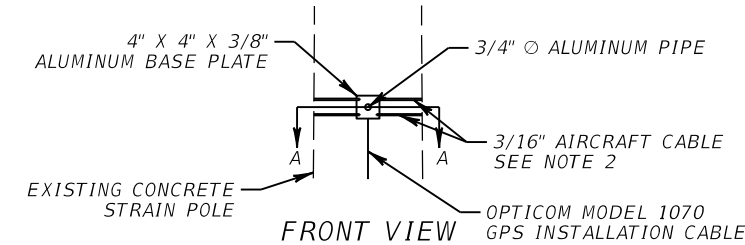
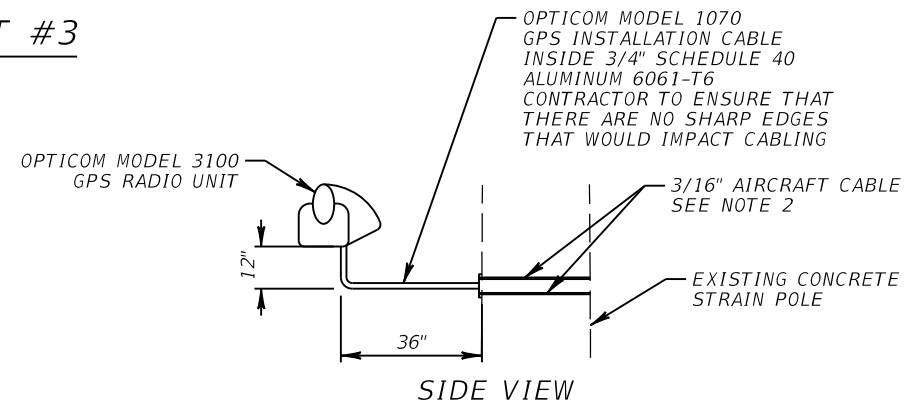
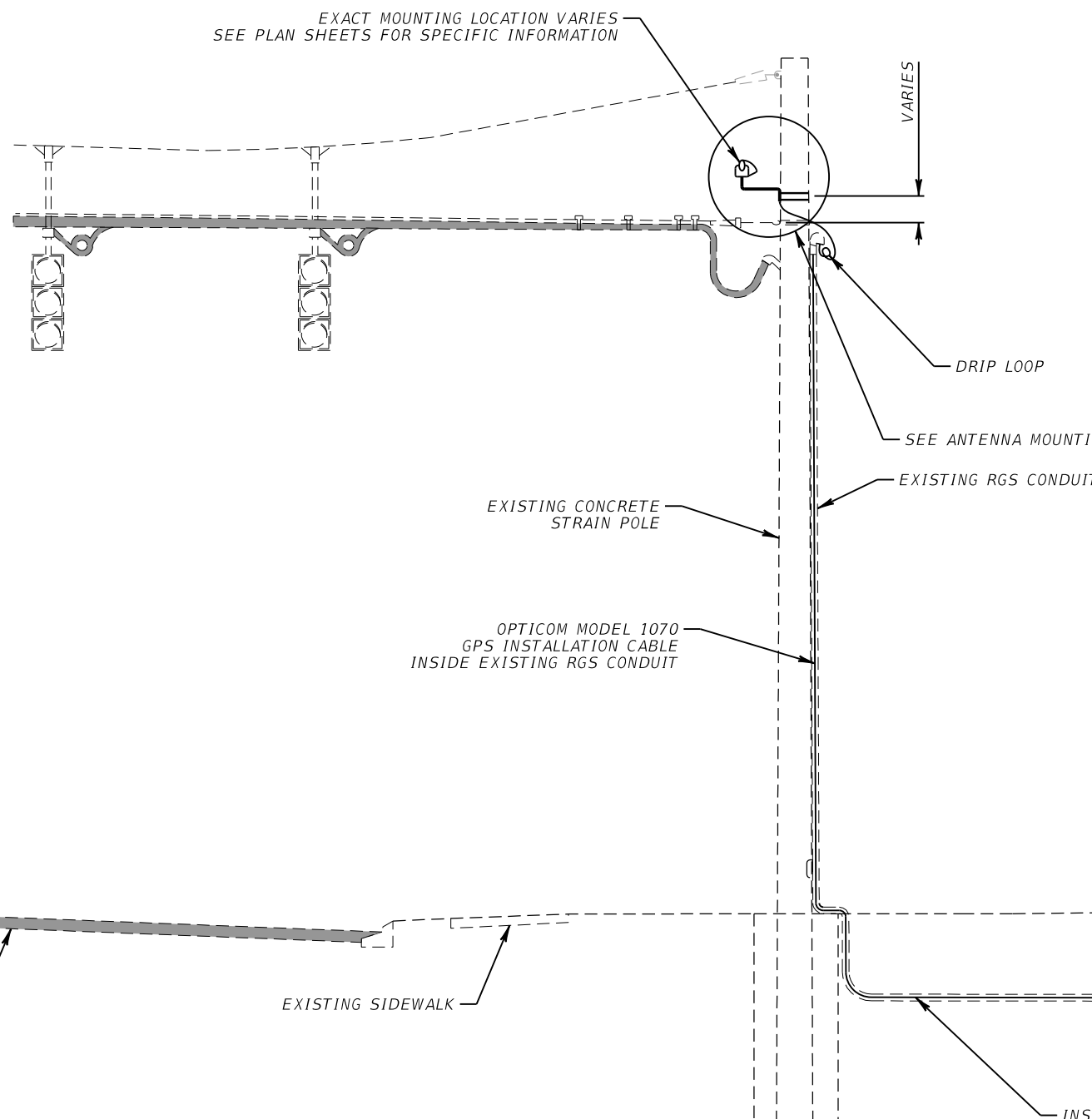
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. ANTENNA MOUNTING DETAIL IT-61 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #3

ANTENNA MOUNTING DETAIL



- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

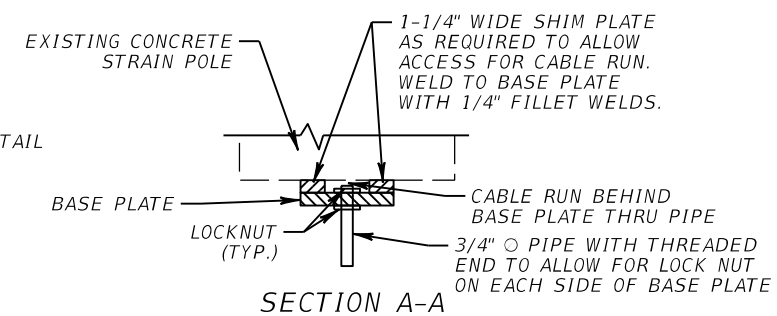
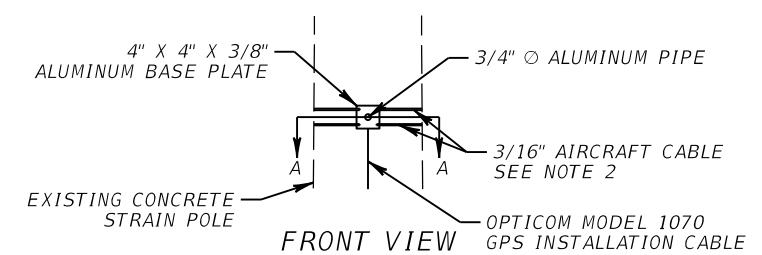
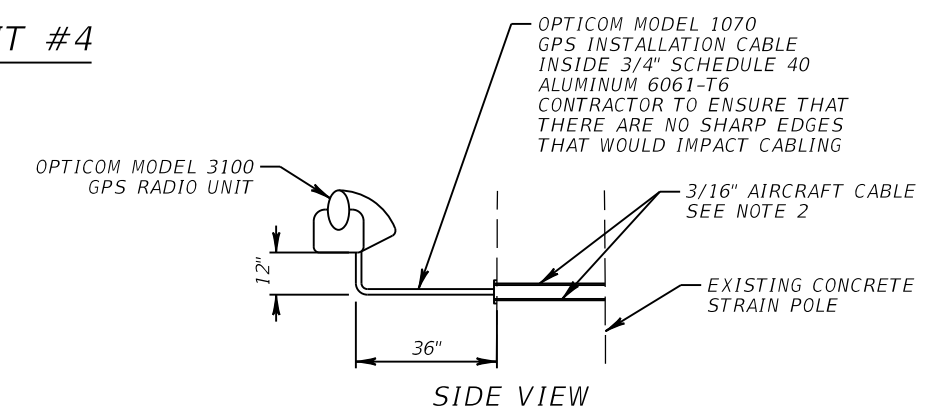
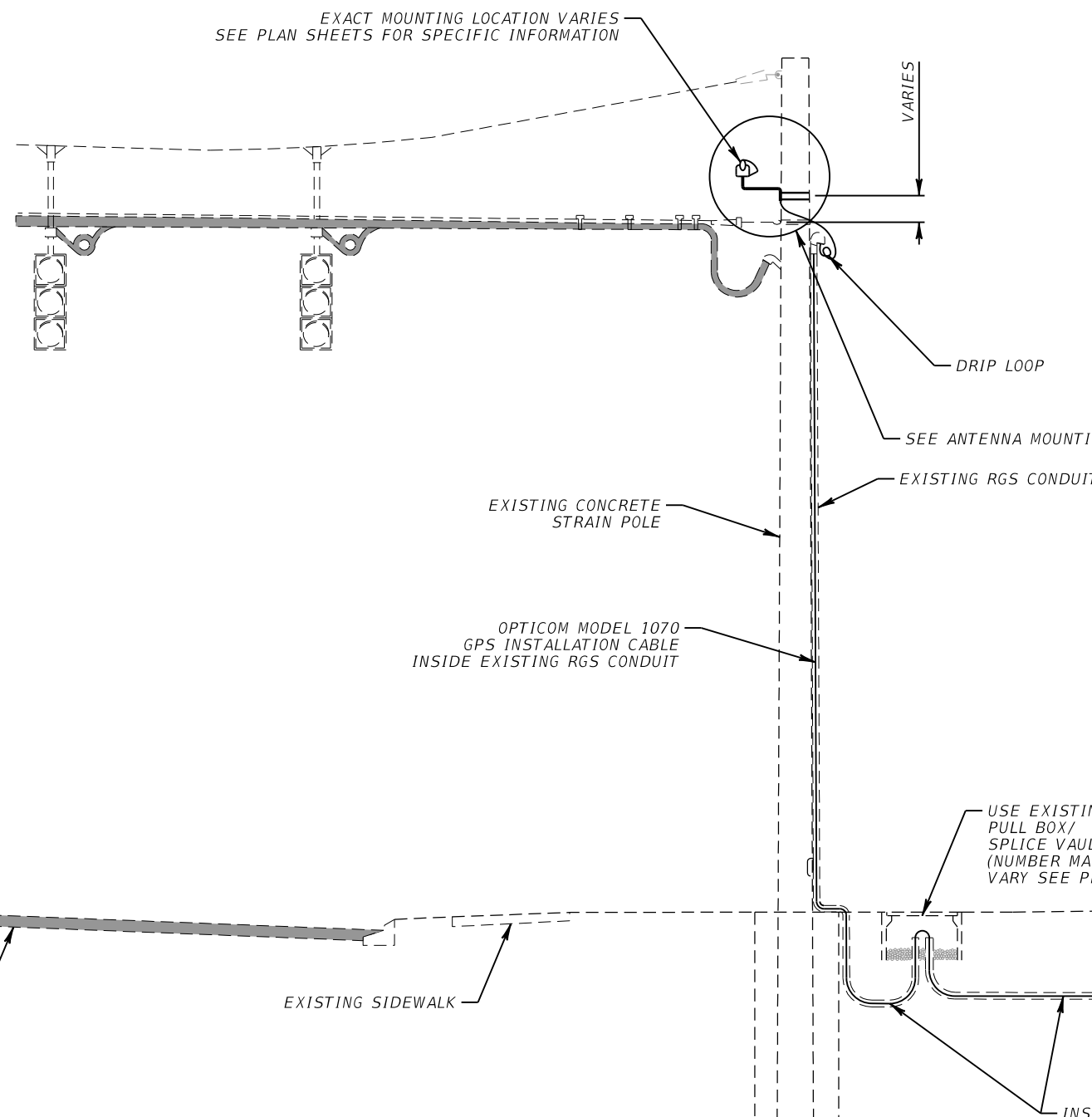
INSTALL OPTICOM MODEL 1070 GPS INSTALLATION CABLE IN EXISTING SIGNAL CONDUIT

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. ANTENNA MOUNTING DETAIL IT-62 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #4

ANTENNA MOUNTING DETAIL



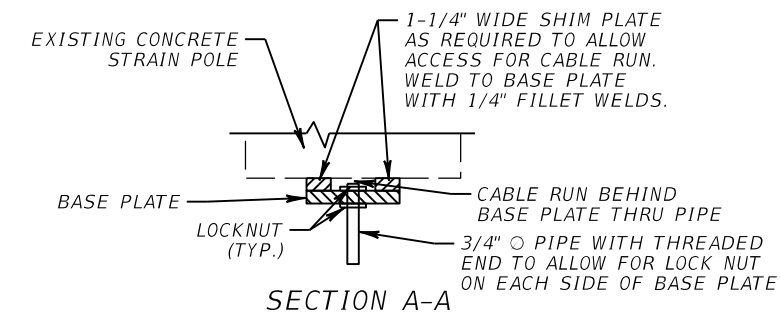
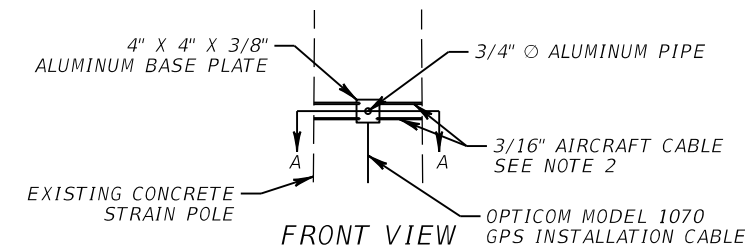
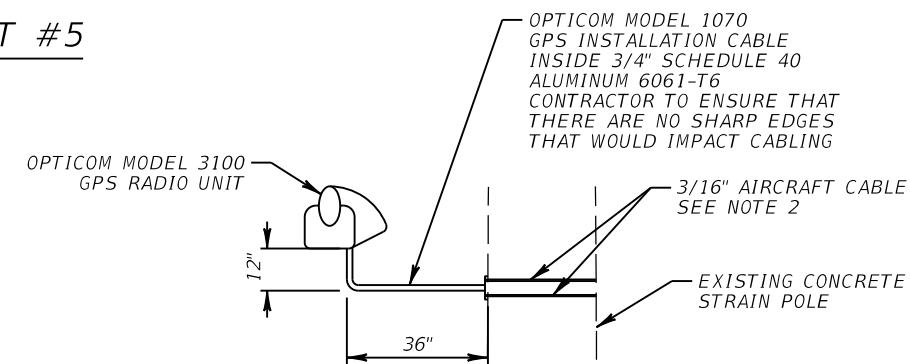
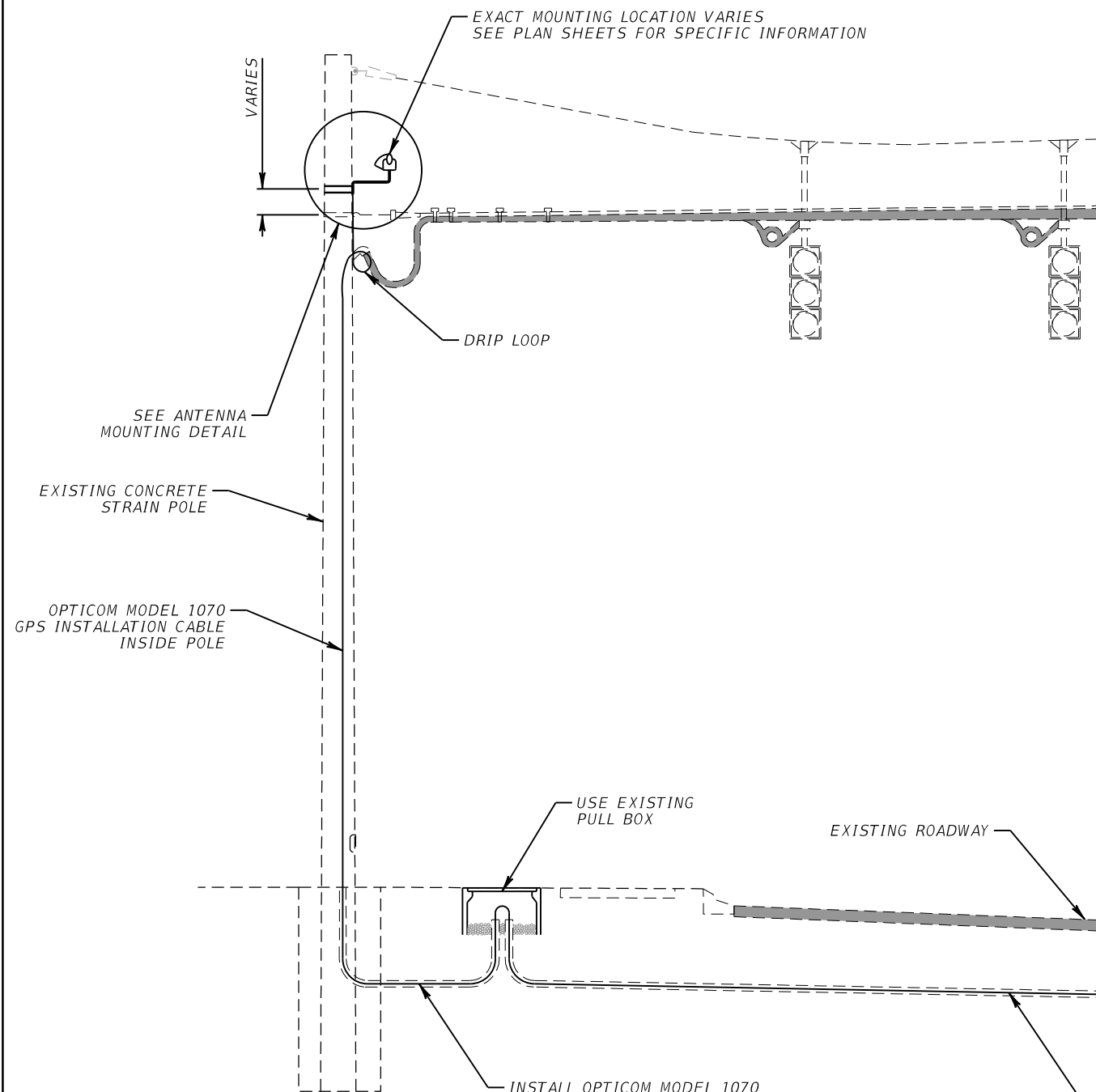
- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. IT-63 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--------------------------------|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

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CONCRETE STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #5

ANTENNA MOUNTING DETAIL



NOTES:

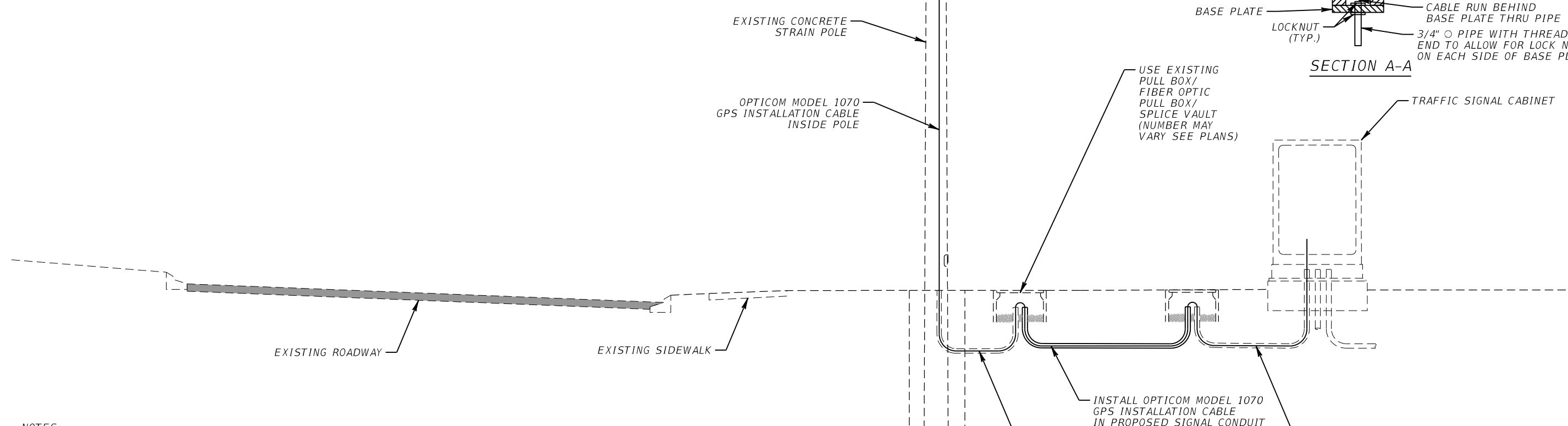
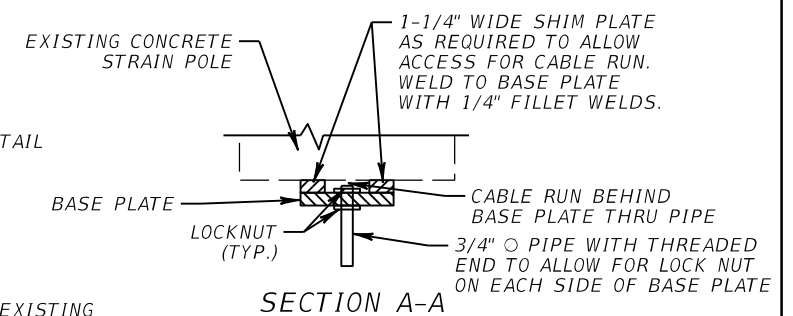
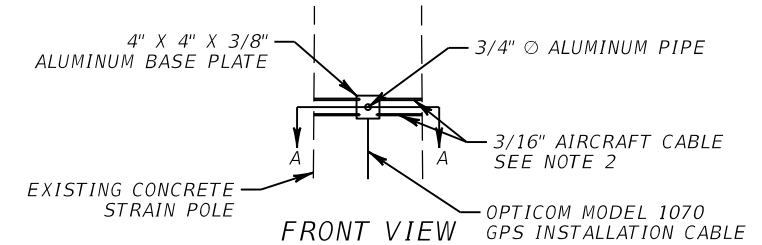
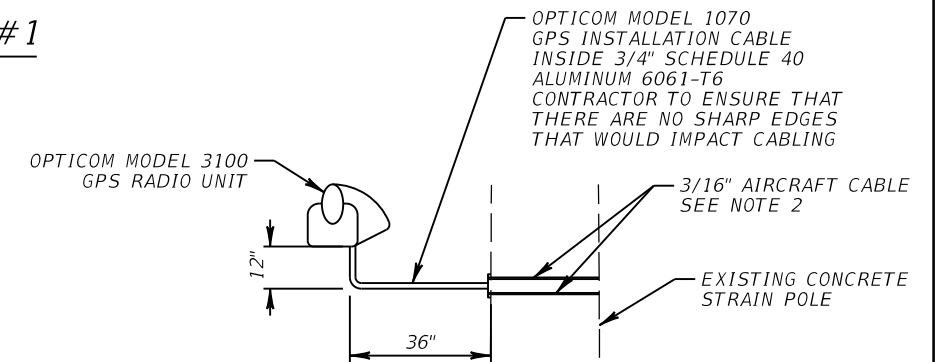
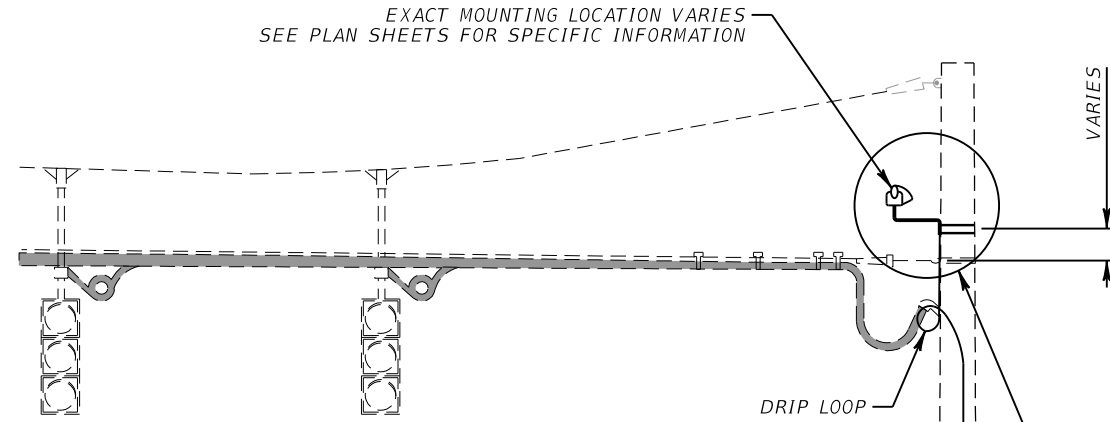
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. IT-64 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|-------------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #1

ANTENNA MOUNTING DETAIL



NOTES:

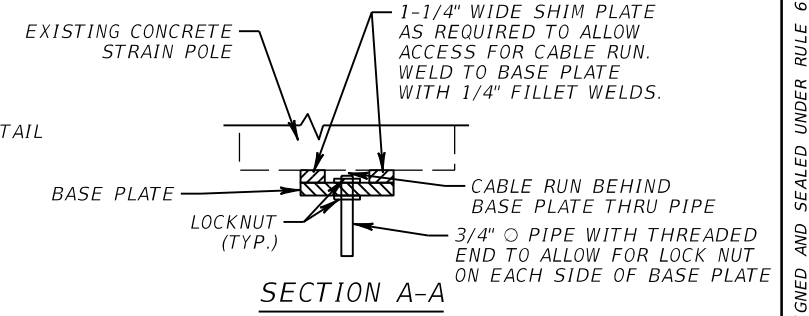
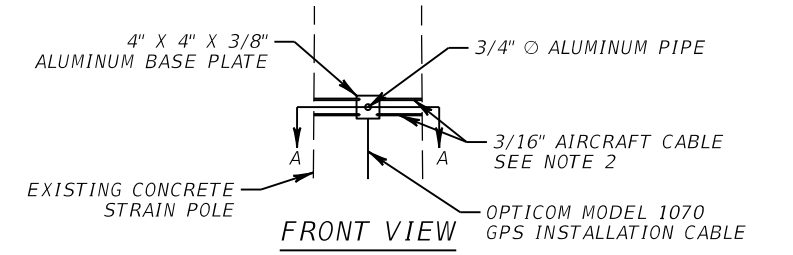
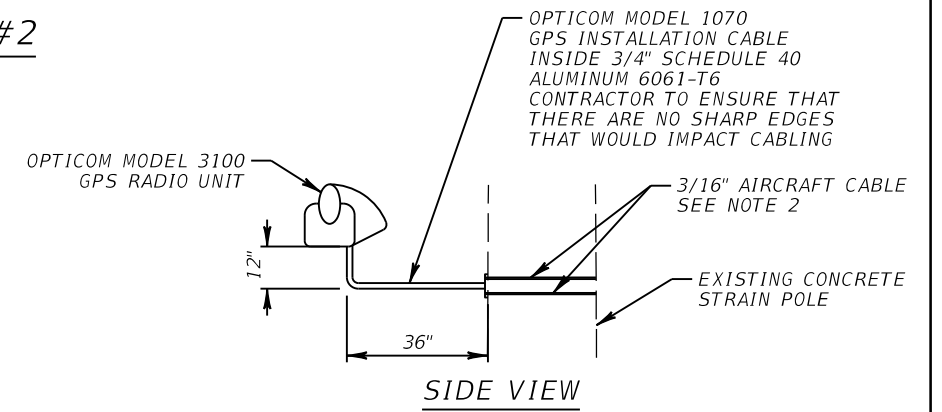
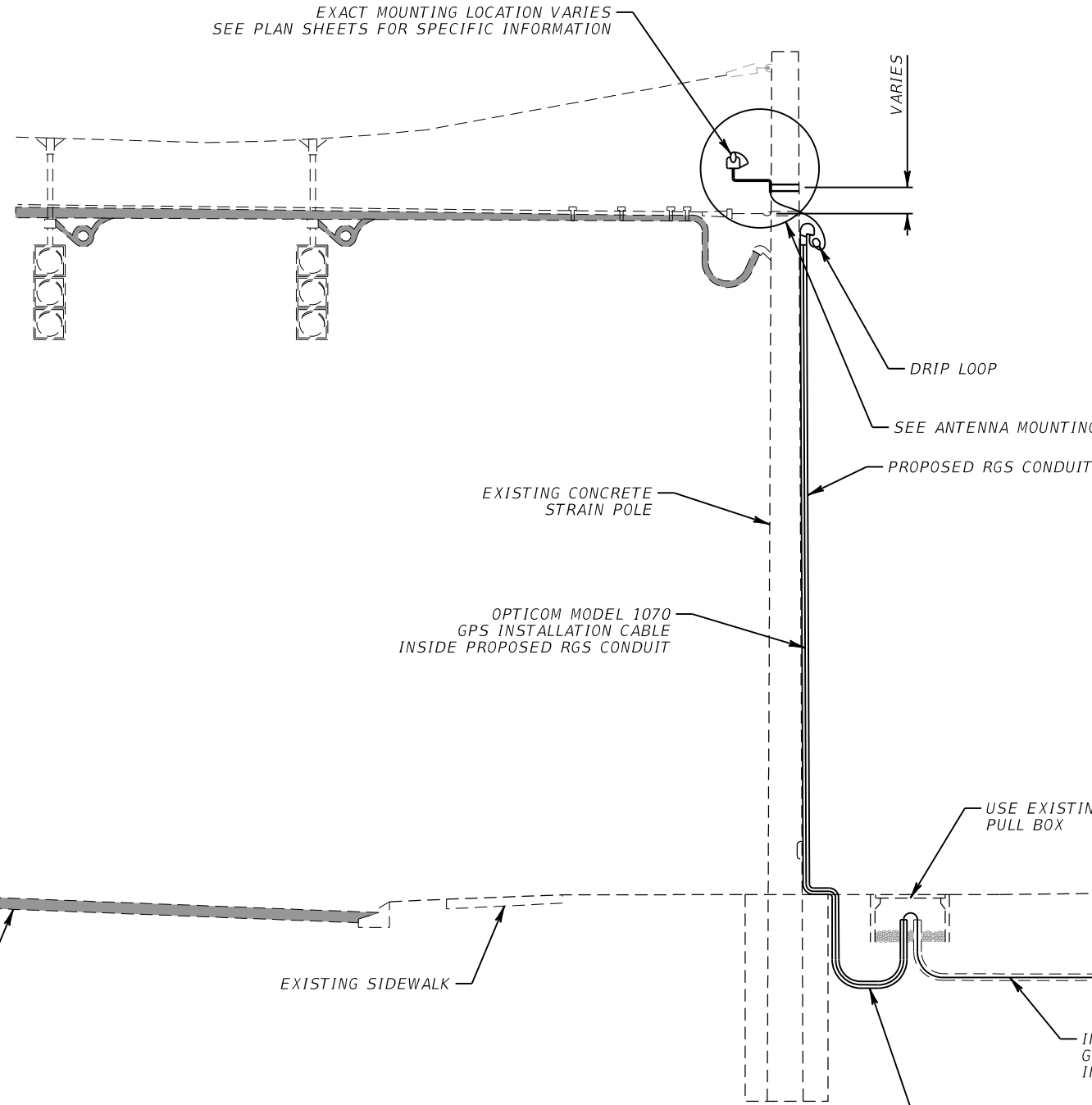
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. ANTENNA MOUNTING DETAIL IT-65 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #2

ANTENNA MOUNTING DETAIL



NOTES:

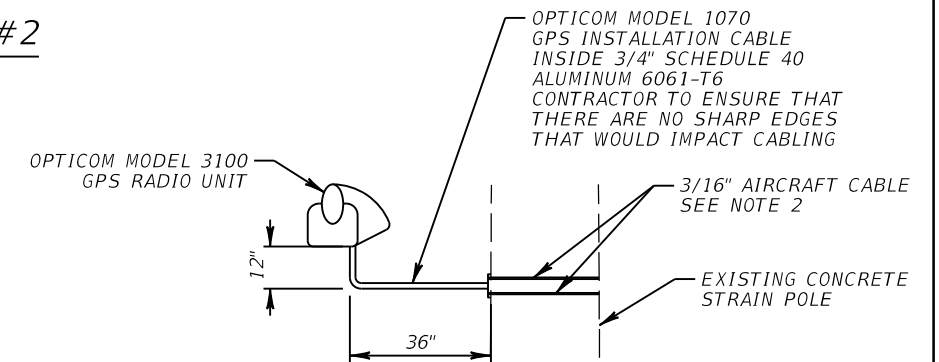
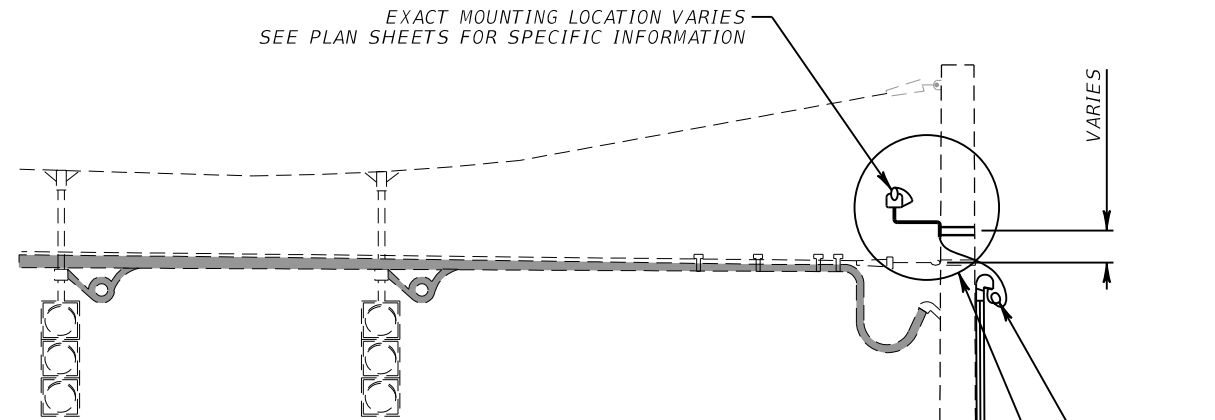
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. IT-66 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--------------------------------|------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

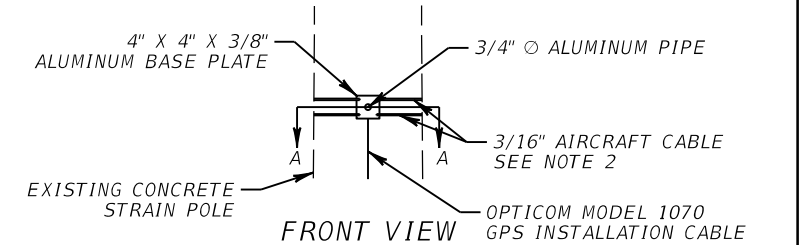
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CONCRETE STRAIN POLE MOUNTED GPS USING NEW CONDUIT #2

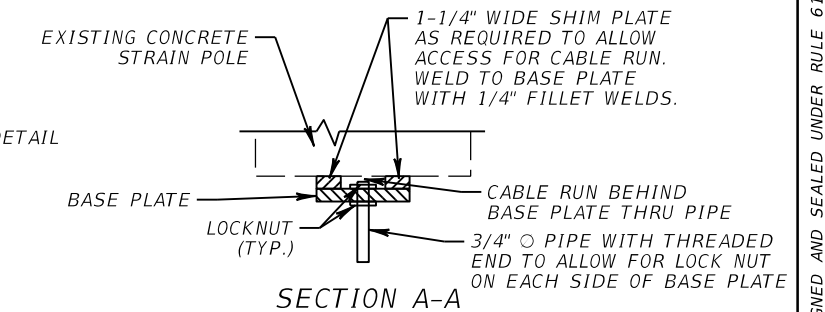
ANTENNA MOUNTING DETAIL



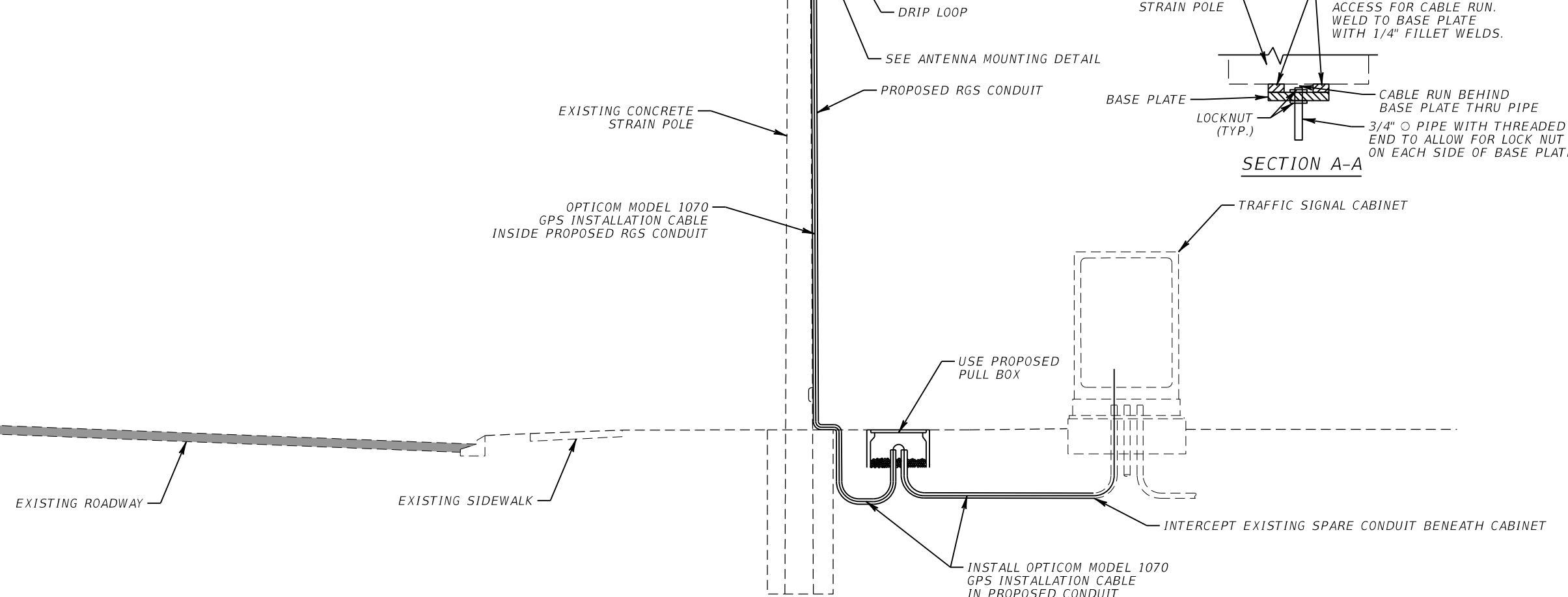
SIDE VIEW



FRONT VIEW



SECTION A-A



NOTES:

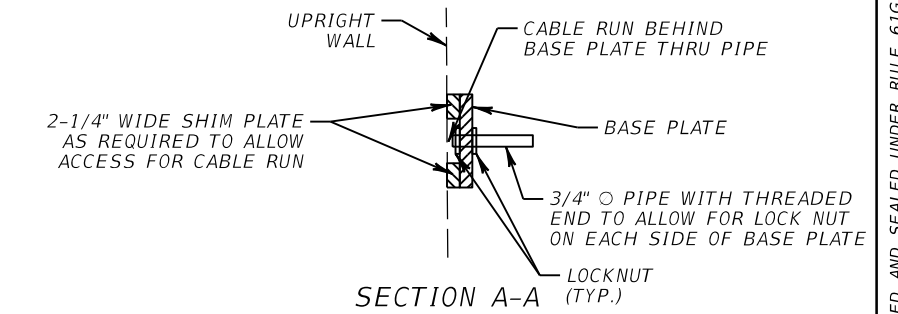
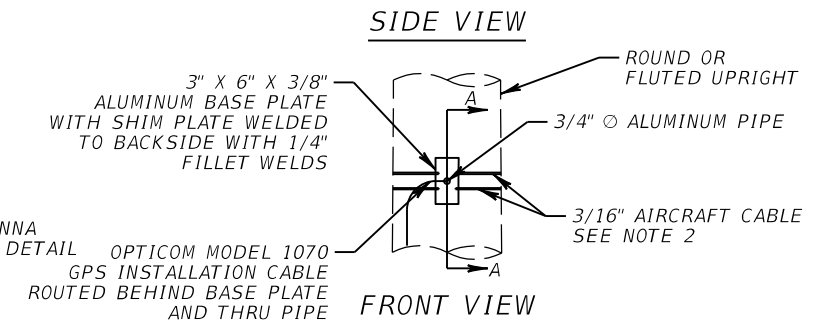
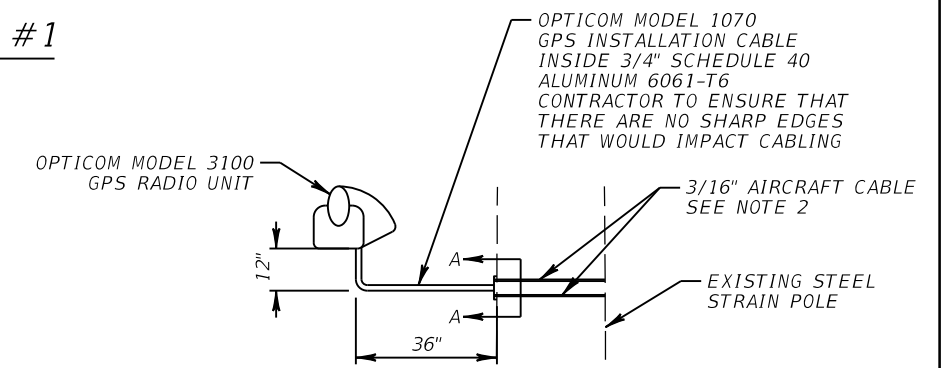
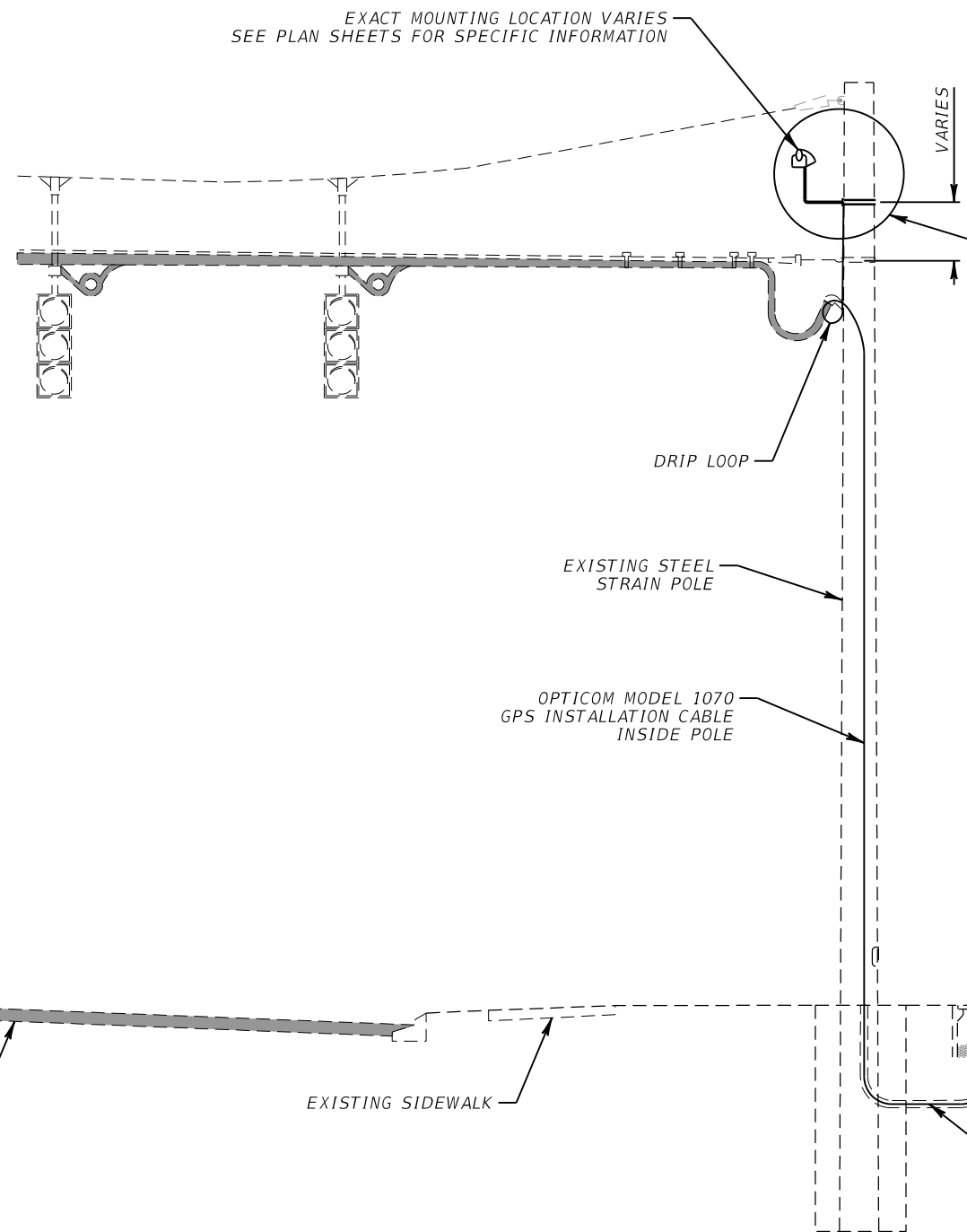
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. ANTENNA MOUNTING DETAIL IT-67 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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STEEL STRAIN POLE MOUNTED GPS USING EXISTING CONDUIT #1

ANTENNA MOUNTING DETAIL



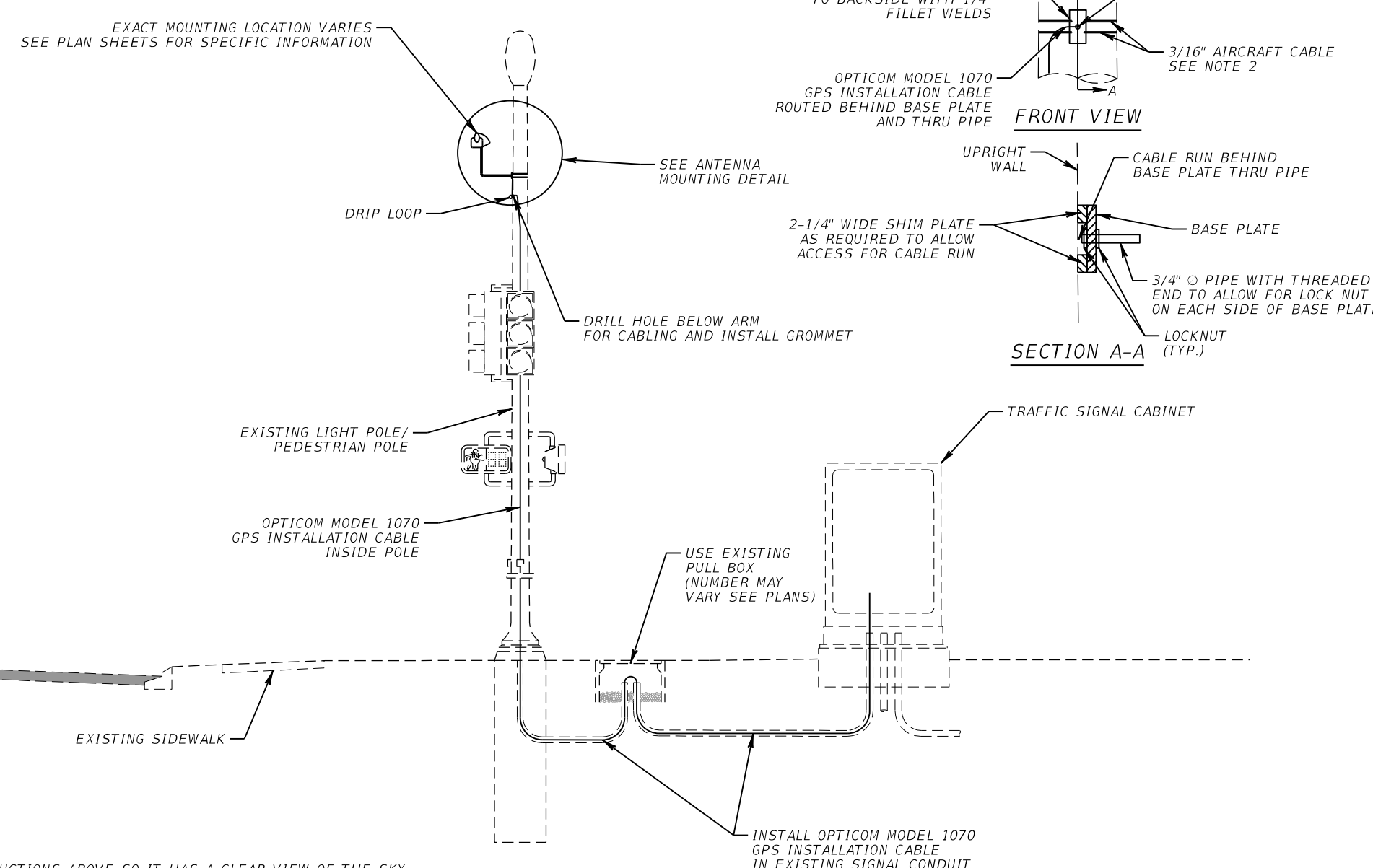
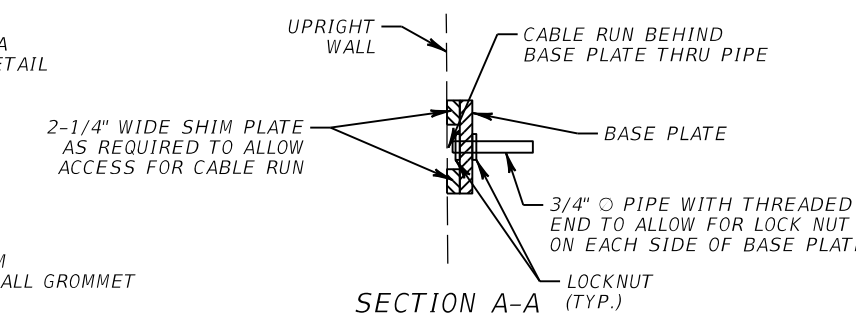
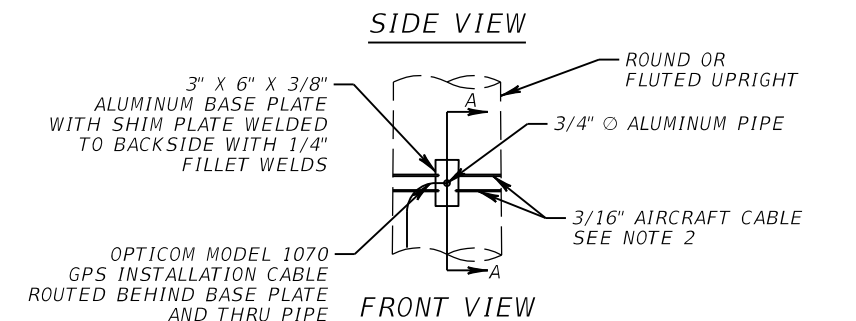
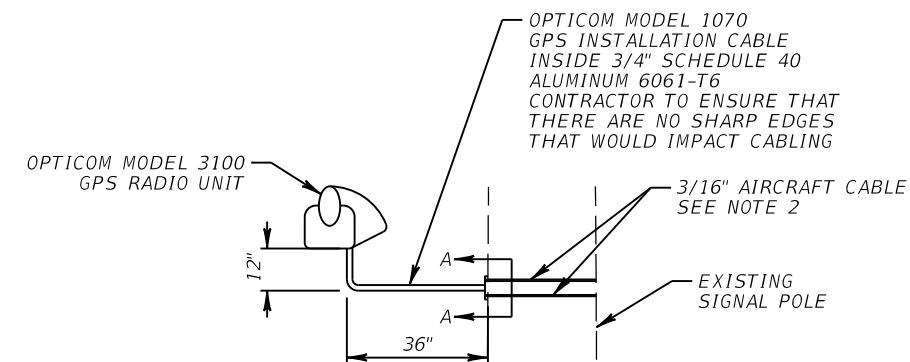
- NOTES:
1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. IT-68 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--------------------------------|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SIGNAL POLE MOUNTED GPS USING EXISTING CONDUIT #1

ANTENNA MOUNTING DETAIL



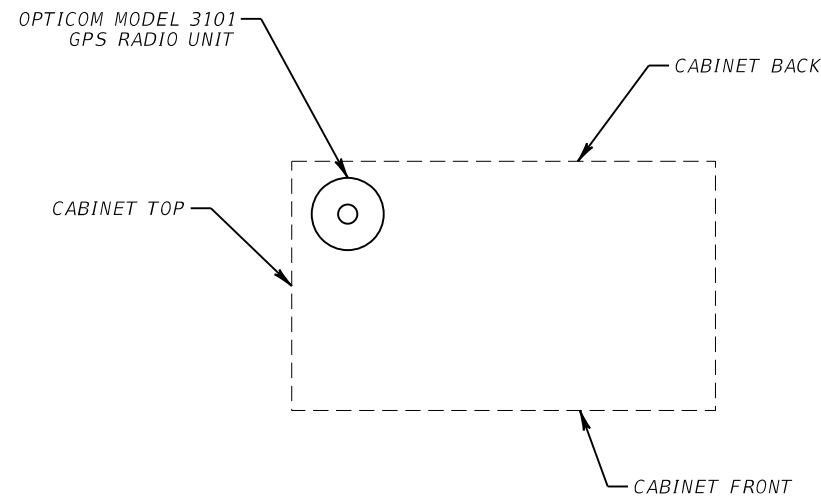
NOTES:

1. ANTENNA SHALL TYPICALLY BE ORIENTED TOWARDS THE INTERSECTION WITH NO OBSTRUCTIONS ABOVE SO IT HAS A CLEAR VIEW OF THE SKY.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE BRACKET AND BRACKET MOUNT ASSEMBLY TO THE POLE FOR REVIEW AND APPROVAL BY THE ENGINEER.

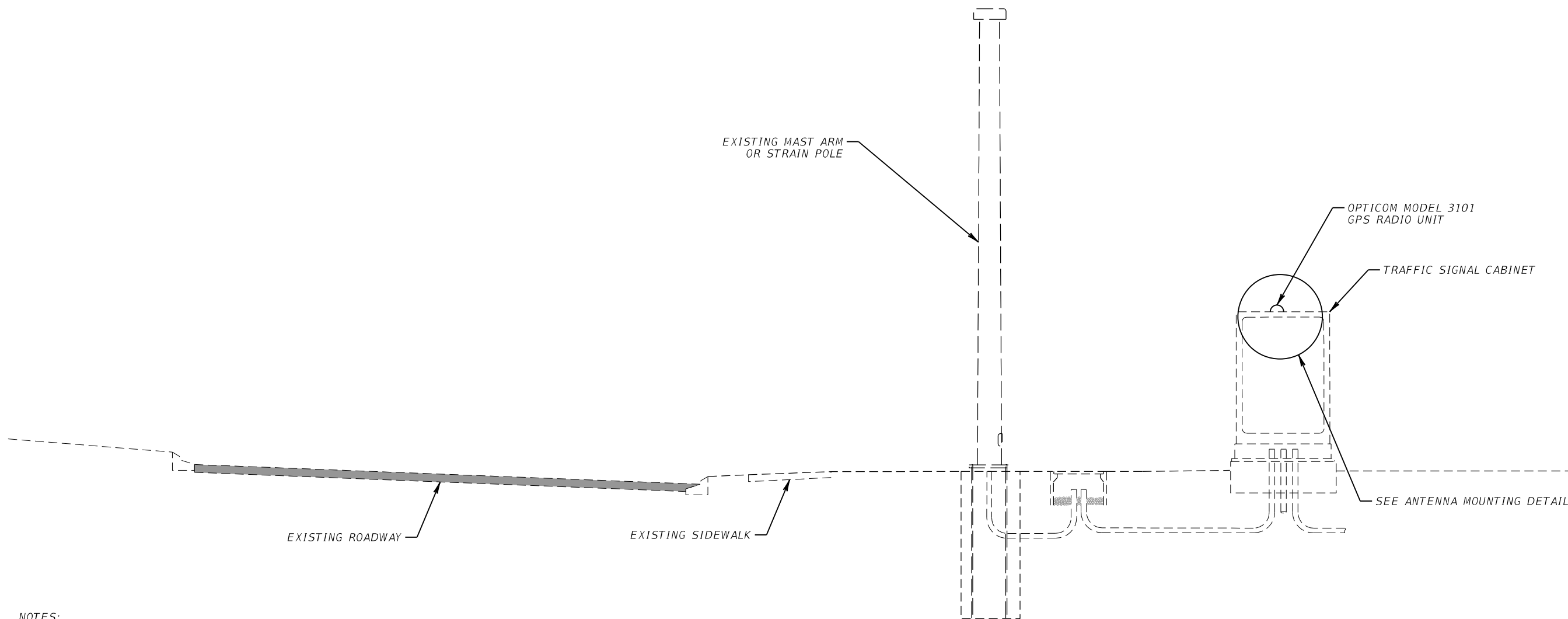
| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL SHEET NO. IT-69 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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TRAFFIC SIGNAL CABINET MOUNTED GPS #1



ANTENNA MOUNTING DETAIL



NOTES:

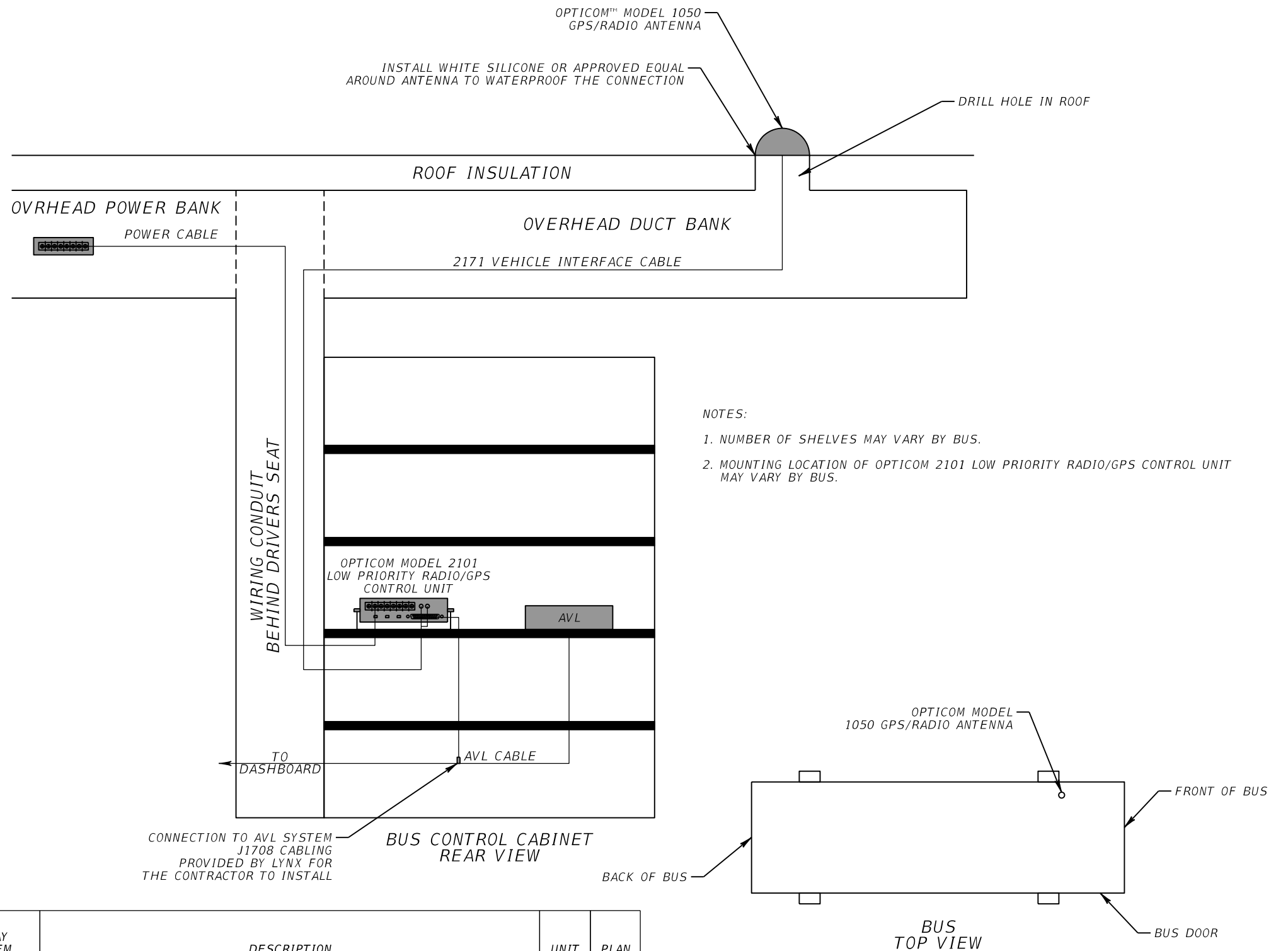
- 1. ANTENNA SHALL BE ORIENTED SO IT HAS A CLEAR VIEW OF THE SKY.

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ANTENNA MOUNTING DETAIL | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--------------------|----------------------|--------------------------------|--------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | | |

LYNX BUS INFORMATION

BUS INSTALLATION DETAIL

| BUS # | MAKE | LENGTH | BUS # | MAKE | LENGTH |
|---------|--------|--------|--------|--------|--------|
| 168-414 | Gillig | 40' | 25-309 | Gillig | 35' |
| 167-414 | Gillig | 40' | 24-309 | Gillig | 35' |
| 166-414 | Gillig | 40' | 23-309 | Gillig | 35' |
| 164-414 | Gillig | 40' | 22-309 | Gillig | 35' |
| 154-414 | Gillig | 40' | 20-309 | Gillig | 35' |
| 153-414 | Gillig | 40' | 9-309 | Gillig | 35' |
| 151-414 | Gillig | 40' | 8-309 | Gillig | 35' |
| 150-414 | Gillig | 40' | 7-309 | Gillig | 35' |
| 149-414 | Gillig | 40' | 6-309 | Gillig | 35' |
| 148-414 | Gillig | 40' | | | |
| 147-414 | Gillig | 40' | | | |
| 146-414 | Gillig | 40' | | | |
| 128-413 | Gillig | 40' | | | |
| 127-413 | Gillig | 40' | | | |
| 124-413 | Gillig | 40' | | | |
| 123-413 | Gillig | 40' | | | |
| 122-413 | Gillig | 40' | | | |
| 116-412 | Gillig | 40' | | | |
| 114-412 | Gillig | 40' | | | |
| 113-412 | Gillig | 40' | | | |
| 112-412 | Gillig | 40' | | | |
| 111-412 | Gillig | 40' | | | |
| 110-412 | Gillig | 40' | | | |
| 109-412 | Gillig | 40' | | | |
| 108-412 | Gillig | 40' | | | |
| 107-412 | Gillig | 40' | | | |
| 55-410 | Gillig | 40' | | | |
| 54-410 | Gillig | 40' | | | |
| 53-410 | Gillig | 40' | | | |
| 52-410 | Gillig | 40' | | | |
| 50-410 | Gillig | 40' | | | |
| 49-410 | Gillig | 40' | | | |
| 47-410 | Gillig | 40' | | | |
| 46-410 | Gillig | 40' | | | |
| 43-410 | Gillig | 40' | | | |
| 42-410 | Gillig | 40' | | | |
| 41-410 | Gillig | 40' | | | |
| 39-410 | Gillig | 40' | | | |
| 38-410 | Gillig | 40' | | | |
| 37-410 | Gillig | 40' | | | |
| 5-409 | Gillig | 40' | | | |
| 3-409 | Gillig | 40' | | | |
| 2-409 | Gillig | 40' | | | |
| 1-409 | Gillig | 40' | | | |
| 815 | Gillig | 40' | | | |
| 814 | Gillig | 40' | | | |
| 811 | Gillig | 40' | | | |
| 810 | Gillig | 40' | | | |
| 808 | Gillig | 40' | | | |
| 807 | Gillig | 40' | | | |
| 806 | Gillig | 40' | | | |
| 805 | Gillig | 40' | | | |
| 804 | Gillig | 40' | | | |
| 803 | Gillig | 40' | | | |
| 802 | Gillig | 40' | | | |
| 801 | Gillig | 40' | | | |
| 665 | Gillig | 40' | | | |
| 662 | Gillig | 40' | | | |
| 661 | Gillig | 40' | | | |
| 660 | Gillig | 40' | | | |
| 659 | Gillig | 40' | | | |
| 658 | Gillig | 40' | | | |
| 657 | Gillig | 40' | | | |
| 655 | Gillig | 40' | | | |
| 654 | Gillig | 40' | | | |
| 653 | Gillig | 40' | | | |
| 648 | Gillig | 40' | | | |
| 647 | Gillig | 40' | | | |
| 645 | Gillig | 40' | | | |
| 644 | Gillig | 40' | | | |
| 642 | Gillig | 40' | | | |
| 641 | Gillig | 40' | | | |
| 640 | Gillig | 40' | | | |
| 639 | Gillig | 40' | | | |
| 638 | Gillig | 40' | | | |
| 637 | Gillig | 40' | | | |

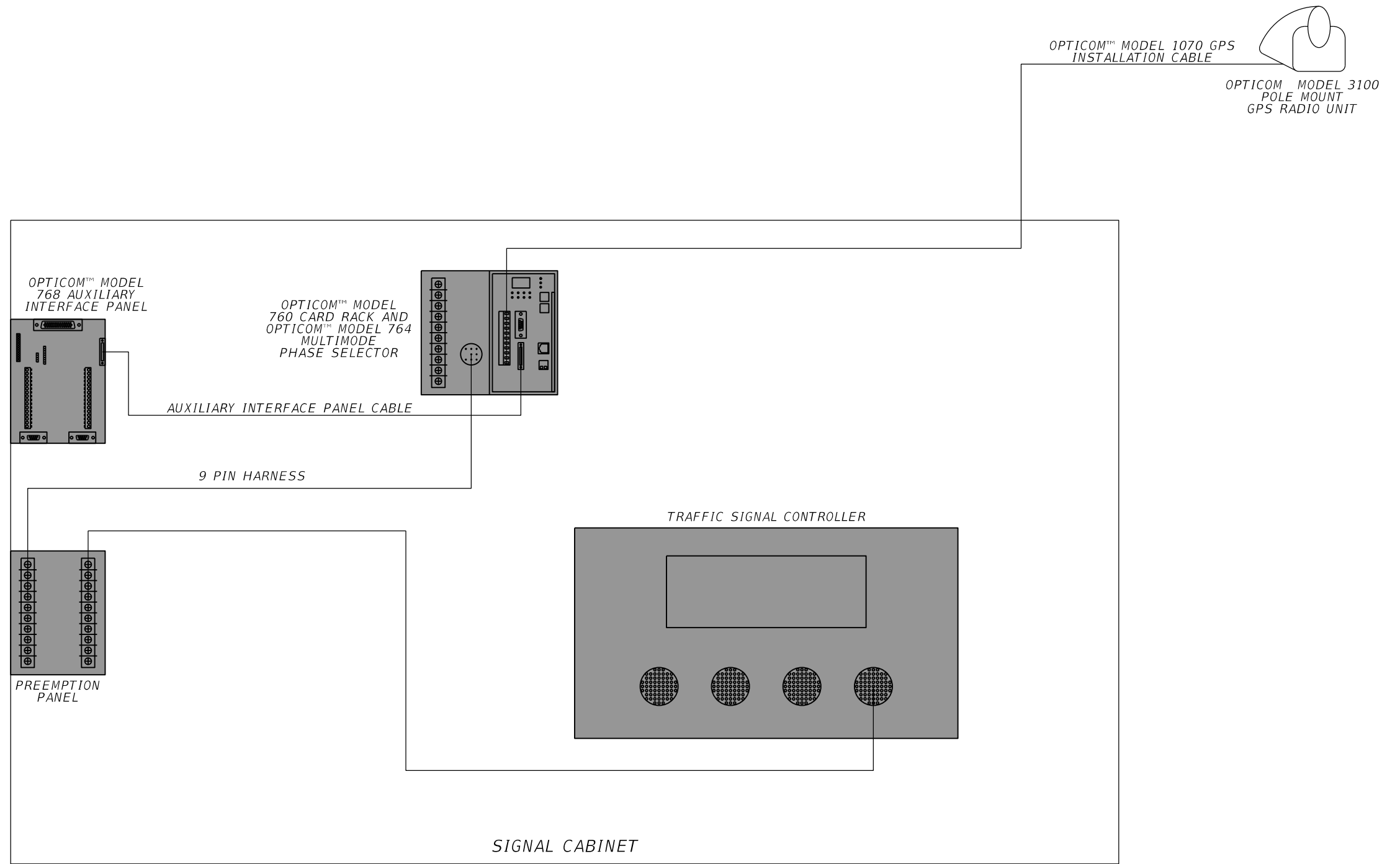


| PAY ITEM NO. | DESCRIPTION | UNIT | PLAN |
|--------------|---|------|------|
| 633-8-1 | MULTI-CONDUCTOR COMMUNICATION CABLE (F&I) | LF | 2125 |
| 663-1-129 | SIGNAL PRIORITY AND PREEMPTION SYSTEM (F&I, GPS, EMITTER FOR BUS) | EA | 85 |

| REVISIONS | | | | METRIC ENGINEERING, INC. JULIO A. ALEGRE, P.E. # 66265 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294 | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. BUS DETAILS IT-71 |
|-----------|-------------|------|-------------|--|--|-----------------|----------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | | VARIES | ORANGE SEMINOLE | 435446-1-52-02 | |

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TYPICAL OPTICOM™ MODEL 3100 SIGNAL POLE MOUNT WIRING DIAGRAM



| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

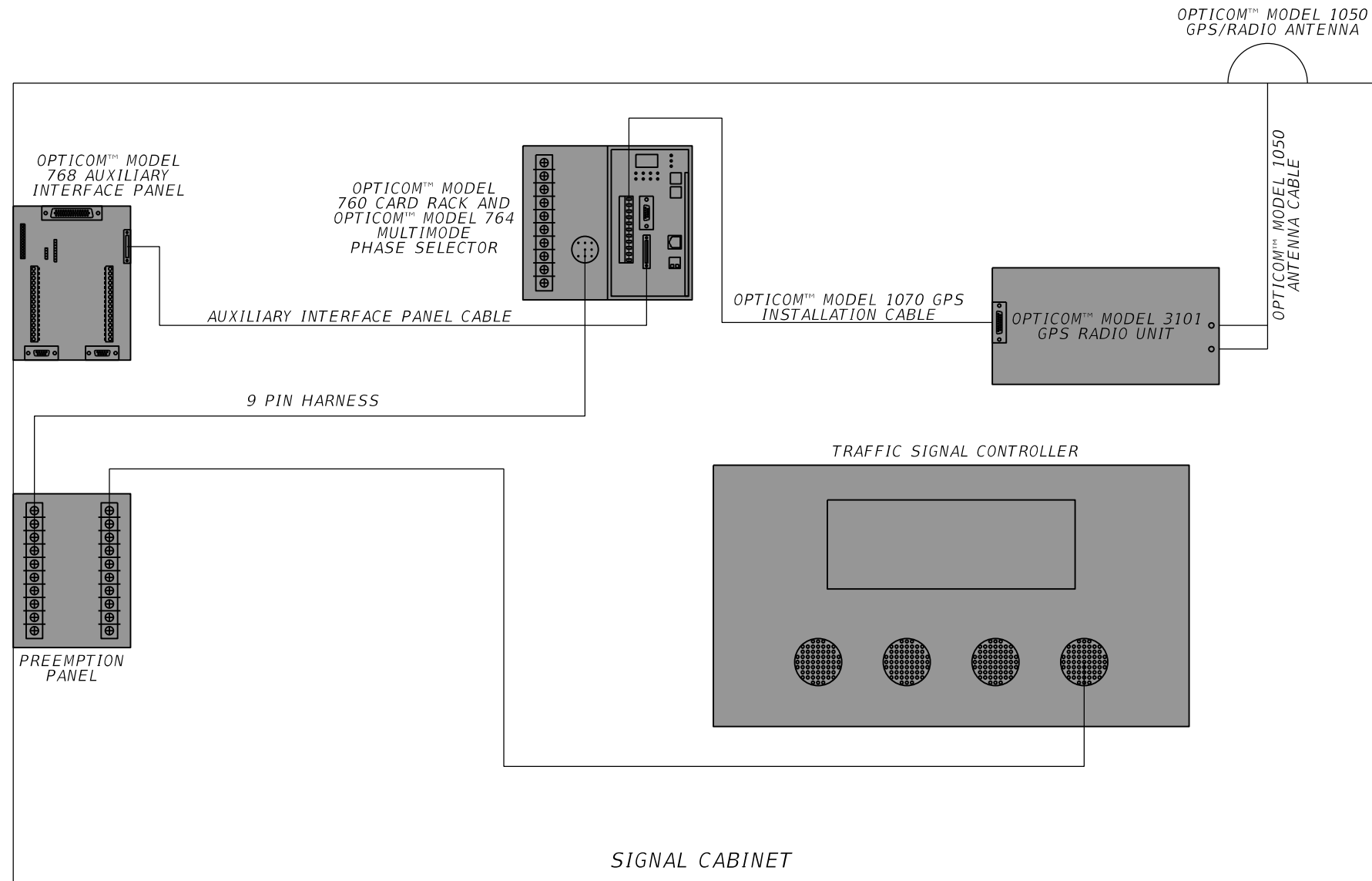
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
|--|--------------------|----------------------|
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

WIRING DIAGRAMS

SHEET NO.
IT-72

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TYPICAL OPTICOM™ MODEL 3101 CABINET MOUNT WIRING DIAGRAM



| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

METRIC ENGINEERING, INC.
 JULIO A. ALEGRE, P.E. # 66265
 615 CRESCENT EXECUTIVE CT
 SUITE 524
 LAKE MARY, FLORIDA 32746
 TEL. (407) 644-1898
 FAX. (407) 644-2376
 CERTIFICATE OF AUTHORIZATION 2294

| | | |
|--|--------------------|----------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| VARIES | ORANGE SEMINOLE | 435446-1-52-02 |

WIRING DIAGRAMS

SHEET NO.
IT-73

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.