

LOCATION SKETCH

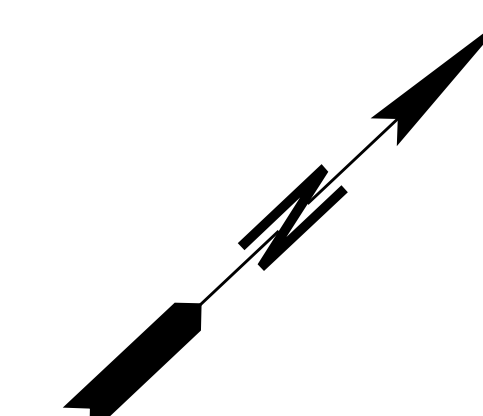
SPEED DESIGN: 40/45 MPH

PROJECT LOCATION

FORSYTH COUNTY ENGINEERING DEPARTMENT

PLAN AND PROFILE OF PROPOSED RONALD REAGAN BOULEVARD EXTENSION FROM MCFARLAND PARKWAY TO MAJORS ROAD

FORSYTH COUNTY



FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.J.NO. N/A

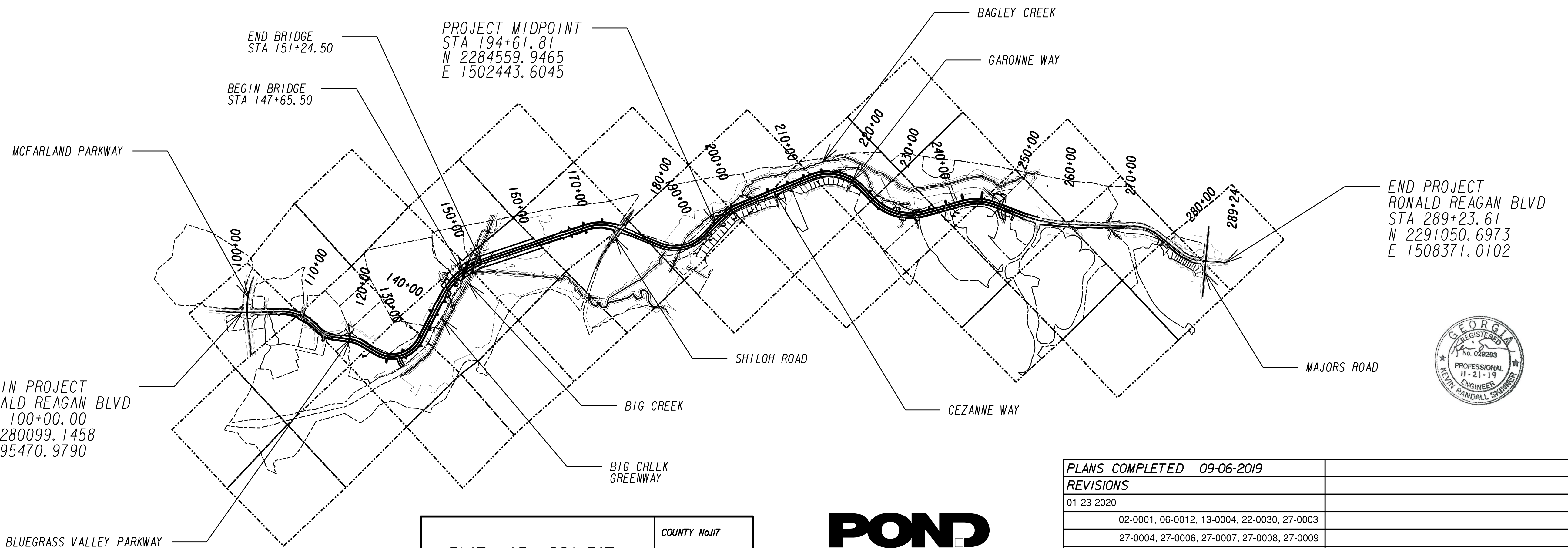
FUNCTIONAL CLASS:
URBAN MINOR ARTERIAL

THIS PROJECT IS 100% IN
FORSYTH COUNTY AND IS
100% IN CONG.DIST.NO.7.

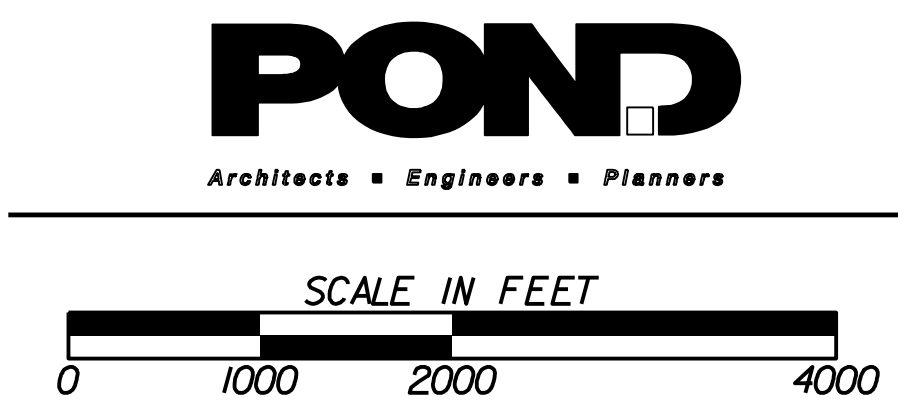
PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS.

THIS PROJECT HAS BEEN PREPARED
USING THE HORIZONTAL GEORGIA
COORDINATE SYSTEM OF 1984 (HAD
1983/94 WEST ZONE, AND THE NORTH
AMERICAN VERTICAL DATUM (NAVD)
OF 1988.

THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY
INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON
FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE
SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND FORSYTH
COUNTY IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS
102.04, 102.05, AND 104.03 OF THE LATEST GDOT SPECIFICATIONS.



| LENGTH OF PROJECT | |
|--------------------------|-------|
| NET LENGTH OF ROADWAY | 3.516 |
| NET LENGTH OF BRIDGES | 0.068 |
| NET LENGTH OF PROJECT | 3.584 |
| NET LENGTH OF EXCEPTIONS | 0.000 |
| GROSS LENGTH OF PROJECT | 3.584 |



| PLANS COMPLETED | 09-06-2019 |
|---|------------|
| REVISIONS | |
| 01-23-2020 | |
| 02-0001, 06-0012, 13-0004, 22-0030, 27-0003 | |
| 27-0004, 27-0006, 27-0007, 27-0008, 27-0009 | |
| 27-0010, 27-0011, 27-0012, 27-0013, 27-0014 | |
| 27-0015, 27-0016, 27-0017 | |

DRAWING No.
01-0001

| DRAWING NO. | DESCRIPTION |
|----------------|---|
| 1 - 0001 | COVER SHEET |
| 2 - 0001 | INDEX SHEETS |
| 3 - 0001 | REVISION SUMMARY |
| 4 - 0001-0004 | GENERAL NOTES |
| 5 - 0001-0007 | TYPICAL SECTIONS |
| 6 - 0001-0012 | SUMMARY OF QUANTITIES |
| 7 - 0001 | QUANTITIES (AMENDMENT) |
| 11 - 0001-0002 | CONSTRUCTION LAYOUT |
| 13 - 0001-0014 | MAINLINE ROADWAY |
| 15 - 0001-0013 | MAINLINE PROFILE |
| 16 - 0001-0002 | CROSSROAD PROFILE |
| 17 - 0001-0002 | DRIVEWAY PROFILES |
| 21 - 0001-0004 | DRAINAGE AREA MAP |
| 22 - 0001-0032 | DRAINAGE PROFILES |
| 23 - 0001-0115 | CROSS SECTIONS |
| 24 - 0000-0014 | UTILITY PLANS |
| 26 - 0001-0015 | SIGNING AND MARKING PLANS |
| 27 - 0001-0017 | SIGNAL PLANS |
| 31 - 0001-0005 | RETAINING WALL ENVELOPES |
| 35 - 0001-0034 | BRIDGE PLANS |
| 38 - 0001 | SPECIAL CONSTRUCTION PLANS |
| 44 - 0001-0022 | WATER AND SEWER RELOCATION PLANS |
| 50 - 0001 | EROSION COVER SHEET |
| 51 - 0001-0005 | ESPC GENERAL NOTES SHEET |
| 52 - 0001-0007 | EROSION CONT. LEGEND |
| 53 - 0001-0004 | ESPC DRAINAGE AREA MAP |
| 54 - 0001-0042 | BMP LOCATION DETAILS |
| 55 - 0001 | EC WATERSHED MAP-SITE MONITORING |
| | |
| | GEORGIA STANDARDS |
| | DATE PUBLISHED |
| 1011A | BRICK MANHOLES 10/81 |
| 1011AP | PRECAST REINFORCED CONCRETE MANHOLE 06/75 |
| 1019A | DROP INLETS 08/99 |
| 1019AP | PRECAST DROP INLETS 08/99 |
| 1030D1 | CONCRETE & METAL PIPE CULVERTS SHT 1 OF 3 09/01 |
| 1030D2 | CONCRETE & METAL PIPE CULVERTS SHT 2 OF 3 09/01 |
| 1030D3 | CONCRETE & METAL PIPE CULVERTS SHT 3 OF 3 09/01 |
| 1033D | CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER) 08/82 |
| 1033DP | PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" HT. PRECAST CURB AND GUTTER) 09/82 |
| 1033G | CATCH BASINS - (FOR USE WITH 6" MOUNTABLE CURB & GUTTER) 12/85 |
| 1033GP | PRECAST CATCH BASINS (FOR USE WITH 6" MOUNTABLE PRECAST CURB & GUTTER) 12/85 |
| 1034D | CATCH BASINS - (FOR USE WITH 6" OR 8" CURB & GUTTER IN SAGS OR LOW POINTS) 08/82 |
| 1034DP | PRECAST CATCH BASINS (FOR USE WITH 6" OR 8" CURB & PRECAST GUTTER IN SAGS OR LOW POINTS) 09/82 |
| 1034G | CATCH BASINS - FOR USE WITH CURB (6" MOUNTABLE) AND GUTTER (IN SAGS OR LOW POINTS) 12/85 |
| 1034GP | PRECAST CATCH BASINS - FOR USE WITH CURB (6" MOUNTABLE) & GUTTER (IN SAGS OR LOW POINTS) 12/85 |
| 1040 | CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS 11/99 |
| 1120 | FLARED END SECTIONS FOR PIPES 06/06 |
| 1125 | INLET HEADWALL - OUTLET HEADWALL 10/99 |
| 1401 | PAVEMENT PATCHING DETAILS (STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT) 08/99 |
| 2401-2-D | REINFORCED CONCRETE SINGLE BOX CULVERT 6'X3' AND 6'X4' (SHEET 2-D OF 3) 09/17 |
| 2402-2-D | REINFORCED CONCRETE DOUBLE BOX CULVERT 6'X3' AND 6'X4' (SHEET 2-D OF 3) 09/17 |
| 2402-2-M | REINFORCED CONCRETE DOUBLE BOX CULVERT 10'X5', 10'X6', 10'X7', 10'X8' (SHEET 2-M OF 3) 09/17 |
| 2402-2-N | REINFORCED CONCRETE DOUBLE BOX CULVERT 10'X9', 10'X10', 10'X11', 10'X12' (SHEET 2-N OF 3) 09/17 |
| 3054 | END POST AND END POST GUARDRAIL ATTACHMENT DETAILS 09/02 |
| 3901 | BAR BENDING DETAILS 08/69 |
| 4000W | GUARDRAIL WARRANT GUIDES 01/16 |
| 4360 | REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING 10/14 |
| 4380 | "W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4381 | POST AND OFFSET BLOCKS FOR "W" AND "T" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4382 | GUARDRAIL CONNECTION AT BRIDGE END OR AT CONCRETE BARRIER END FOR 31 INCH HIGH GUARDRAIL 01/16 |

| DRAWING NO. | DESCRIPTION |
|-------------|--|
| 4383 | GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT 08/11 |
| 4384 | TYPE 12 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4385 | "T" BEAM GUARDRAIL CONNECTION TO 31 INCH HEIGHT "W" BEAM 08/11 |
| 4386 | GUARDRAIL LOCATIONS IN MEDIANS GUARDRAIL LOCATIONS AT TURNOUTS 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4387 | GUARDRAIL LOCATION DETAILS FOR MULTI-LANE DIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO THE ROADWAY) 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4391 | GUARDRAIL LOCATION (ON ROADS WITH CURB & GUTTER, HEADER CURB, OR INTEGRAL CURB) 31 INCH GUARDRAIL HEIGHT 01/16 |
| 4948B | CONCRETE SIDE BARRIER TYPES 2, 2A, 2B, AND 2C 01/07 |
| 4960 | CONCRETE BARRIER - TEMPORARY (END TREATMENT OPTIONS) 05/07 |
| 4961 | DETAILS OF PRECAST TEMPORARY BARRIER 08/85 |
| 4962 | TEMPORARY TRAFFIC IMPACT ATTENUATOR - SAND LOADED MODULES 05/99 |
| 9003 | FEDERAL AID AND STATE PROJECT MARKERS; RIGHT OF WAY MARKERS; COUNTY LINE MARKER 04/06 |
| 9017R | REINFORCED CONCRETE APPROACH SLAB WITH ASPHALT INLAY- 30 FT LENGTH (TYPICAL USE: WHERE SHOULDER IS ADJACENT TO ROADWAY AND/OR BRIDGE) 09/02 |
| 9029B | PERFORATED UNDERDRAIN 08/83 |
| 9031L | GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG 09/16 |
| 9031L2 | GSE9031L2 06/98 |
| 9031N | CHAIN-LINK WIRE FENCE 08/85 |
| 9031S | MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON 04/96 |
| 9031U | JUNCTION BOXES (PRECAST OR BUILT-IN-PLACE) PIPE COLLARS, PIPE ELBOW AND PIPE CURVED ALIGNMENT 07/85 |
| 9032B | CONCRETE CURB AND BUTTER, CONCRETE CURBS, CONCRETE MEDIANS 11/11 |
| 9037 | TYPICAL FILL DETAIL AT END OF BRIDGE 09/99 |
| 9039 | PERMANENT TIMBER TYPE BARRICADE 03/06 |
| 9100 | TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS 03/06 |
| 9102 | TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY 03/06 |
| | DATE PUBLISHED |
| | CONSTRUCTION DETAILS |
| A1 | DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS 07/11 |
| A2 | CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6 07/11 |
| A3 | CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS 09/16 |
| A4 | DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS 06/09 |
| D19 | TEMPORARY PIPE SLOPE DRAIN WITH DRAIN INLET 02/00 |
| D20 | SILT CONTROL GATES FOR STRUCTURES TYPE - 1, 2, AND 3 04/16 |
| D24A | TEMPORARY SILT FENCE (SHEET 1 OF 4) 01/11 |
| D24B | TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4) 01/11 |
| D24C | TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4) 01/11 |
| D24D | TEMPORARY SILT FENCE FABRIC CHECK DAMS (SHEET 4 OF 4) 07/15 |
| D41 | CONSTRUCTION EXIT 04/16 |
| D42 | INLET SEDIMENT TRAPS 05/08 |
| D43 | ROCK FILTER DAM 04/16 |
| D55A | RIPRAP OUTLET PROTECTION (SHEET 1 OF 2) 04/16 |
| D55B | RIPRAP OUTLET PROTECTION (SHEET 2 OF 2) 04/16 |
| N1A | FOUNDATION AND POST DETAILS 04/14 |
| N1B | FOUNDATION AND POST DETAILS 04/15 |
| P7 | PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT 11/11 |
| PRW-1 | SPECIAL DETAIL PARAPET RETAINING WALL, TYPE P1, P2, AND P3 12/17 |
| T02 | DETAILS FOR TYPICAL FRAMING 03/00 |
| T03A | TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL 07/02 |
| T03B | DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT) 07/02 |
| T05C | DETAILS OF WARNING SIGNS 01/00 |
| T11A | DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY 09/16 |
| T12A | DETAILS OF PAVEMENT MARKING ARROW LOCATION 01/00 |
| T12B | DETAILS OF PAVEMENT MARKINGS - ARROWS 04/00 |
| T14 | DETAILS OF PAVEMENT MARKING HATCHING 11/08 |
| T15C | DETAILS OF RAISED PAVEMENT MARKERS 09/11 |
| T22B | DETAILS FOR BRIDGE DELINEATION ON DIVIDED HIGHWAY TWO WAY OPERATION 09/06 |

| | | | | | | | |
|------------|------|--|---|---|-------------------------------|--|--|
| 10/23/2015 | GPLM | FORSYTH COUNTY ENGINEERING DEPARTMENT |  | REVISION DATES 01-23-2020 | | INDEX RONALD REAGAN BLVD EXTENSION | |
| | | | | CHECKED: _____ DATE: _____ BACKCHECKED: _____ DATE: _____ CORRECTED: _____ DATE: _____ VERIFIED: _____ DATE: _____ | DRAWING No. 02-0001 | | |

SUMMARY OF QUANTITIES

| REINFORCED CONCRETE BRIDGE CULVERTS | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------|------|---------|---------|-------------------------------------|-------------------|----------------|--------------------------|--------|------------------|--------|---------------------------|------|---------------------|------|---------|------|
| STATION | BARRELS | SKEW | LENGTH | | GA. STD. FOR WINGWALLS AND PARAPETS | DESIGN FOR BARREL | CHANNEL EXCAV. | FOUND. BACKFILL MATERIAL | | BAR REINF. STEEL | | CONCRETE APRONS STD. 2332 | | CONCRETE VEINS D-48 | | | |
| | | | CU YDS. | CU YDS. | | | | BARREL | WW&PAR | BARREL | WW&PAR | CU YDS. | LBS. | CU YDS. | LBS. | CU YDS. | LBS. |
| | | | LIN FT. | FTXFT | | | | CU YDS. | LBS. | CU YDS. | LBS. | CU YDS. | LBS. | CU YDS. | LBS. | CU YDS. | LBS. |
| 143+65 | DOUBLE | 50 | 185 | 10x9 | 2402-2-N | 2402-2-N | | 174 | 596 | 15.7 | 58738 | 2128 | | | | | |
| 230+50 | DOUBLE | 48 | 155 | 6x3 | 2402-2-D | 2402-2-D | | 94 | 160 | 7.3 | 20801 | 1292 | | | | | |
| 233+48 | SINGLE | 79 | 131 | 6x3 | 2401-2-D | 2401-2-D | | 45 | 71 | 2.7 | 11122 | 610 | | | | | |
| 247+72 | DOUBLE | 42 | 431 | 10x6 | 2402-2-M | 2402-2-M | | 426 | 1932 | 16.4 | 219121 | 2255 | | | | | |

| SPECIAL DESIGN CULVERTS | | | | |
|-------------------------|-------------------|----------|--------|------|
| 186+72 | DOUBLE 72x11 ARCH | 62° SKEW | 184 LF | 1 LS |

| EQUALIZATION PIPES | | | | |
|--------------------|----------------|--------|--------------------------|--|
| STATION | SIZE | LENGTH | FOUND. BACKFILL MATERIAL | OUTLET HEADWALLS GA STD. 1125 CLASS "A" CONC. INCL. REINFORCED STEEL |
| 153+00 | DOUBLE 48 INCH | 130 LF | 58 CY | 18 CY |

| THERMOPLASTIC TRAFFIC STRIPE | | |
|------------------------------|--------------|---------------|
| DESCRIPTION | UNIT | QUANTITY |
| | | THERMOPLASTIC |
| 5" SOLID WHITE | LIN FT | 46262 |
| 8" SOLID WHITE | LIN FT | 20173 |
| 5" SKIP WHITE | GROSS LIN FT | 36562 |
| 24" SOLID WHITE | LIN FT | 1596 |
| 5" SOLID YELLOW | LIN FT | 35597 |

| ARROWS (EACH) | |
|---------------|---------------|
| DESCRIPTION | QUANTITY |
| | THERMOPLASTIC |
| TYPE 2 | 40 |
| TYPE 6 | 33 |
| TYPE 7 | 6 |
| TYPE 1 | 4 |

| |
|---|
| THERMOPLASTIC TRAFFIC STRIPE, YELLOW (SY) |
| 138 SY |

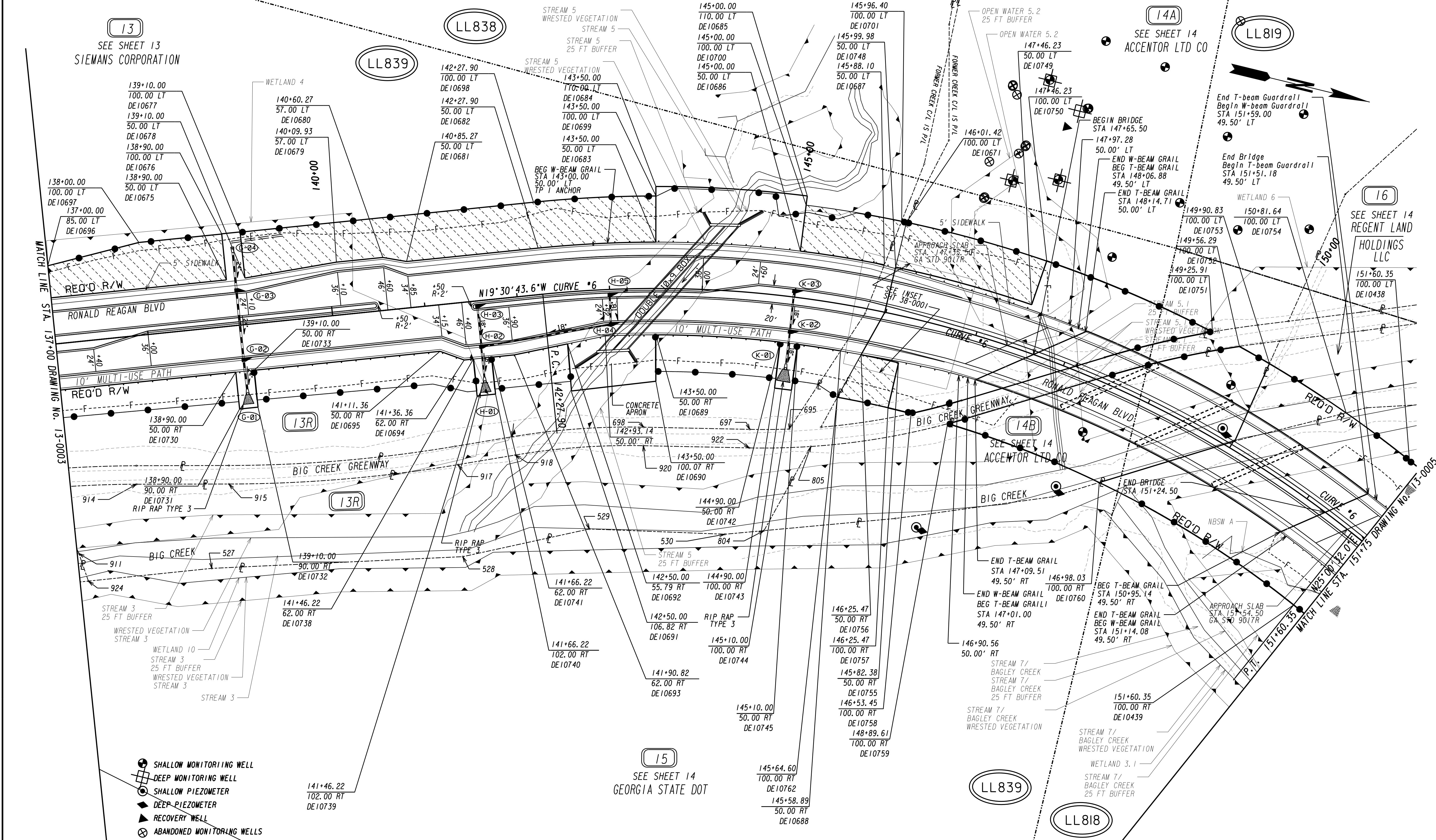
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| THERMOPLASTIC TRAFFIC STRIPE, WHITE (SY) |
| 277 SY |

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|------------------------------|
| RAISED PAVEMENT MARKERS TP 1 |
| 200 EA |

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|------------------------------|
| RAISED PAVEMENT MARKERS TP 3 |
| 1300 EA |

| REVISION DATES | |
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| 01-23-2020 | |
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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 06-0012 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



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|---|-----|
| PROPERTY AND EXISTING R/W LINE | --- |
| REQUIRED R/W LINE | --- |
| CONSTRUCTION LIMITS | --- |
| EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES | --- |
| EASEMENT FOR CONSTR OF SLOPES | --- |
| EASEMENT FOR CONSTR OF DRIVES | --- |

| | |
|--|-----|
| BEGIN LIMIT OF ACCESS.....BLA | --- |
| END LIMIT OF ACCESS.....ELA | --- |
| LIMIT OF ACCESS | --- |
| REQ'D R/W & LIMIT OF ACCESS | --- |
| ORANGE BARRIER FENCE | --- |
| ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE) | --- |

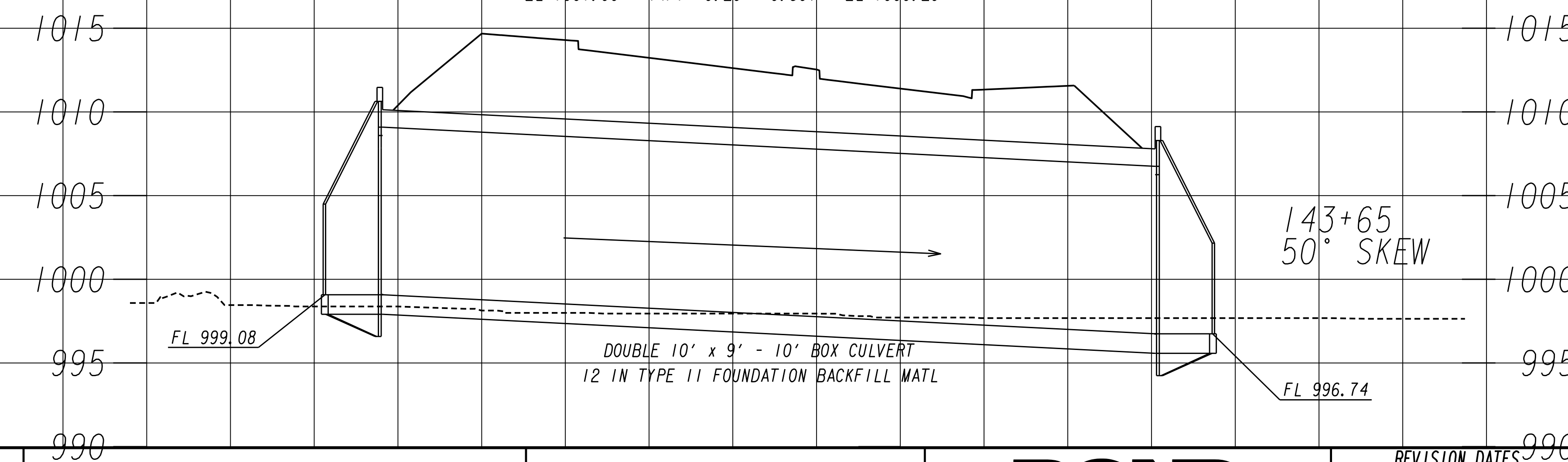
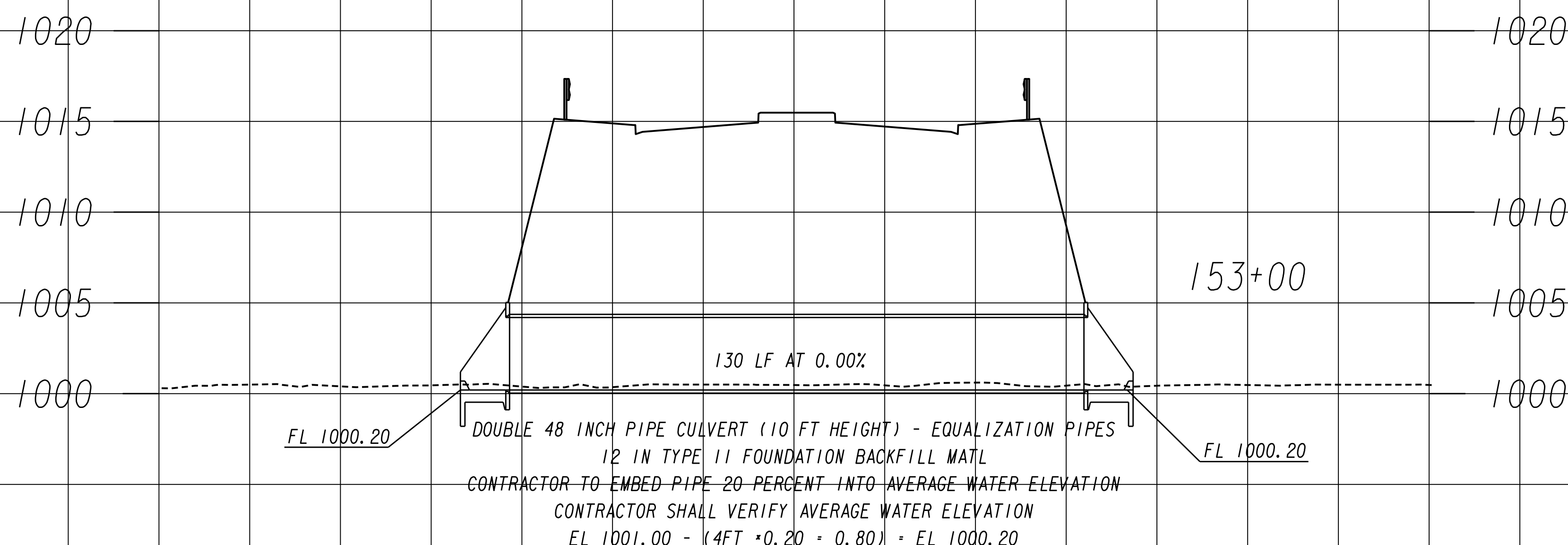
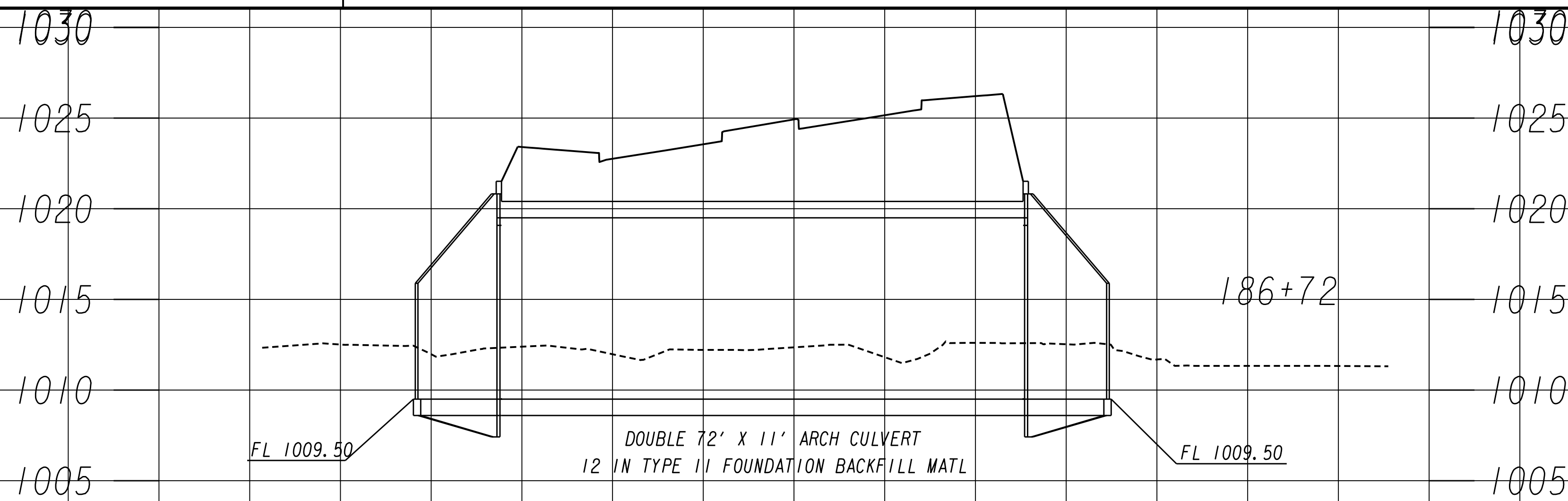
FORSYTH COUNTY
 ENGINEERING DEPARTMENT

POND
 Architects • Engineers • Planners

SCALE IN FEET
 0 50 100 200

| REVISION DATES | |
|----------------|--|
| 01-23-2020 | |
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| CONSTRUCTION PLAN | | | |
|------------------------------|-------|-------------|--|
| RONALD REAGAN BLVD EXTENSION | | | |
| CHECKED: | DATE: | DRAWING No. | |
| BACKCHECKED: | DATE: | 13-0004 | |
| CORRECTED: | DATE: | | |
| VERIFIED: | DATE: | | |



FORSYTH COUNTY
ENGINEERING DEPARTMENT

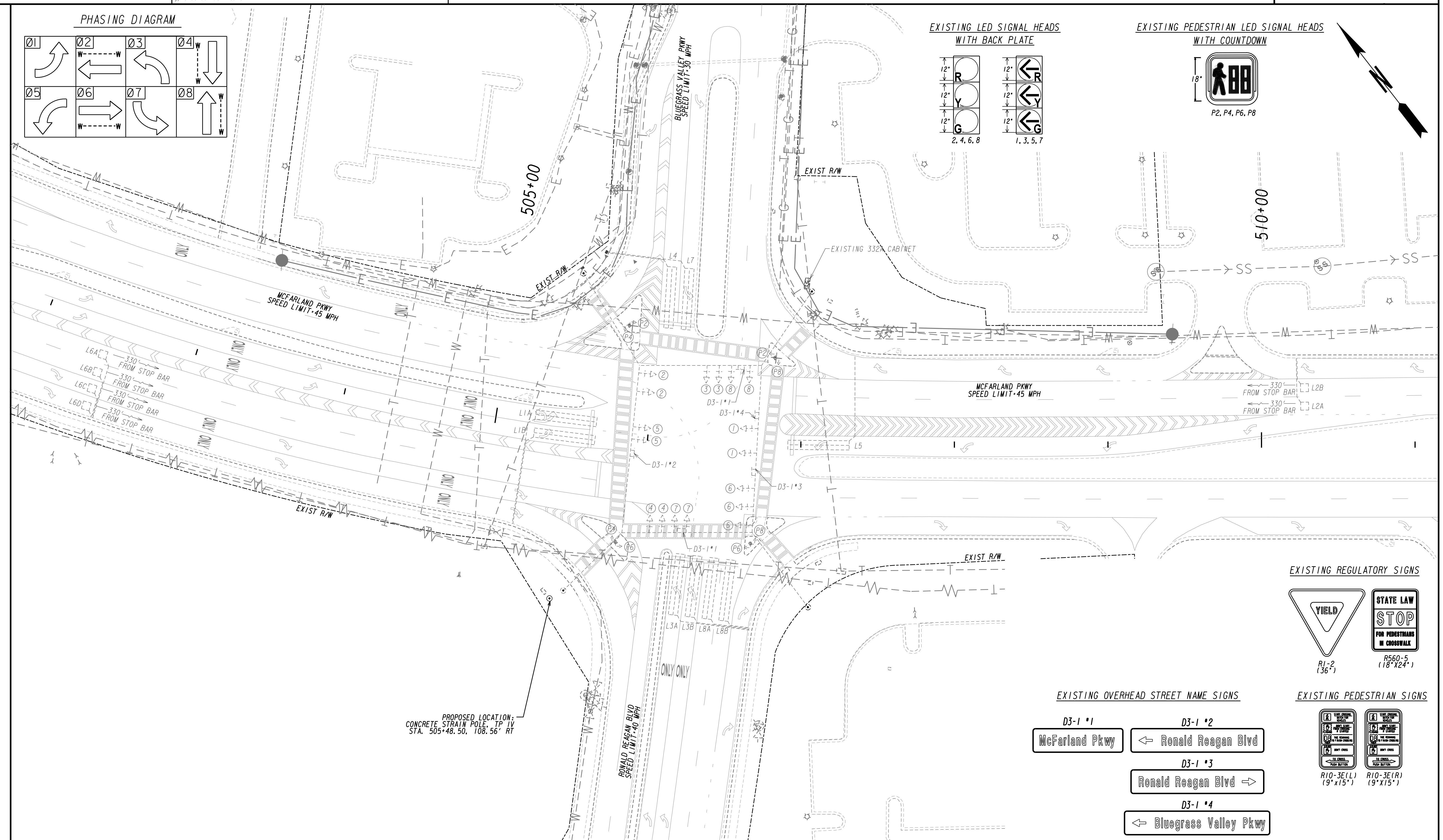
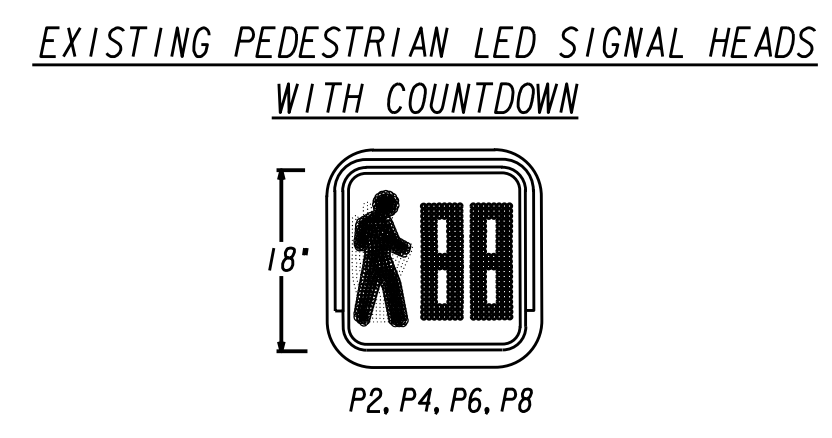
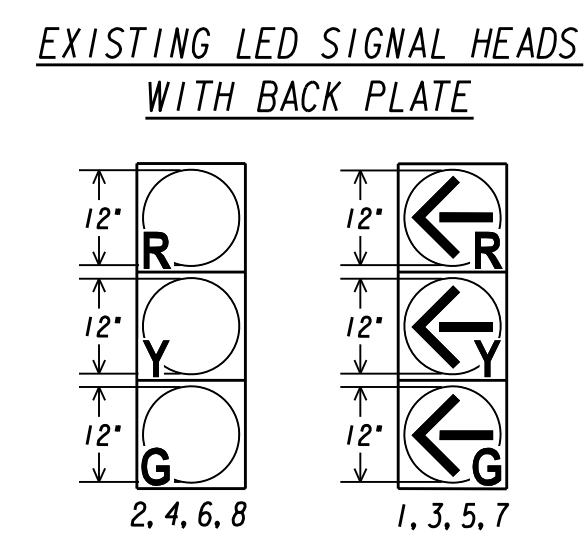
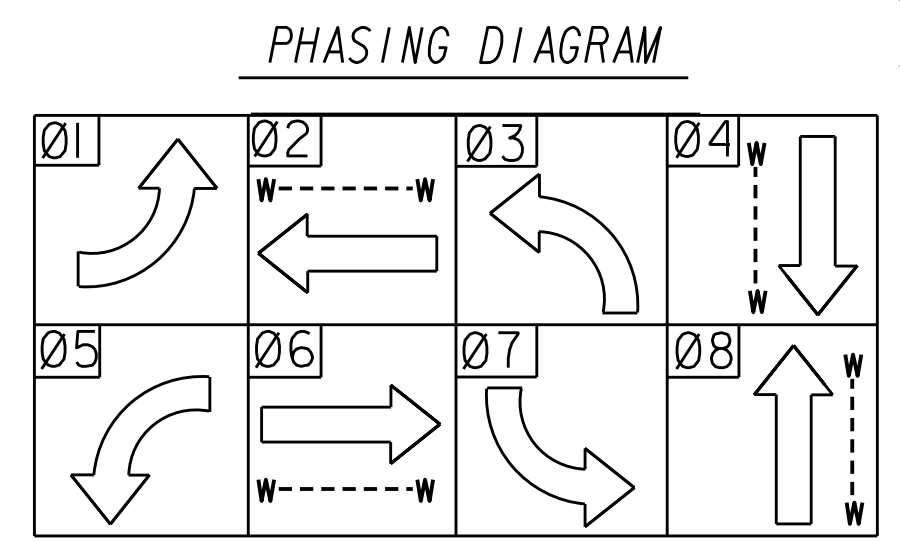


SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 20 feet Horz.

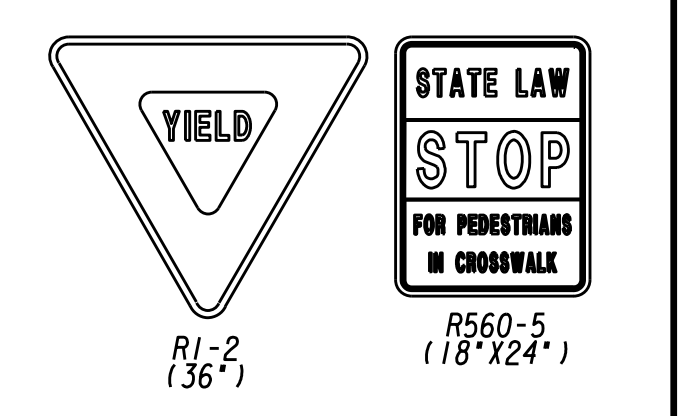
| REVISION DATES | |
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| 01-23-2020 | |
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DRAINAGE PROFILES
RONALD REAGAN BLVD EXTENSION

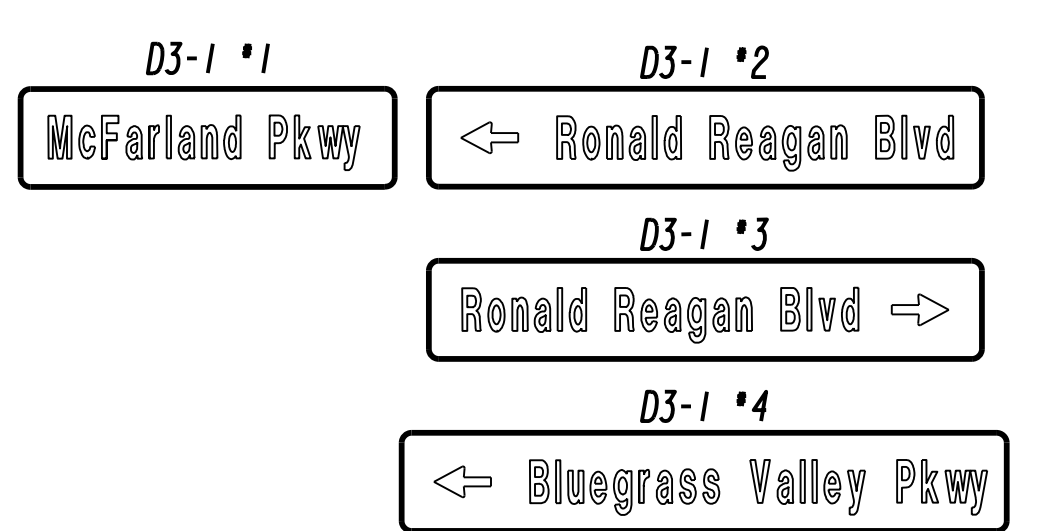
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| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



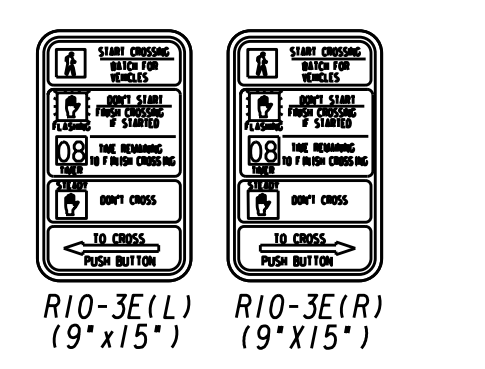
EXISTING REGULATORY SIGNS



EXISTING OVERHEAD STREET NAME SIGNS



EXISTING PEDESTRIAN SIGNS



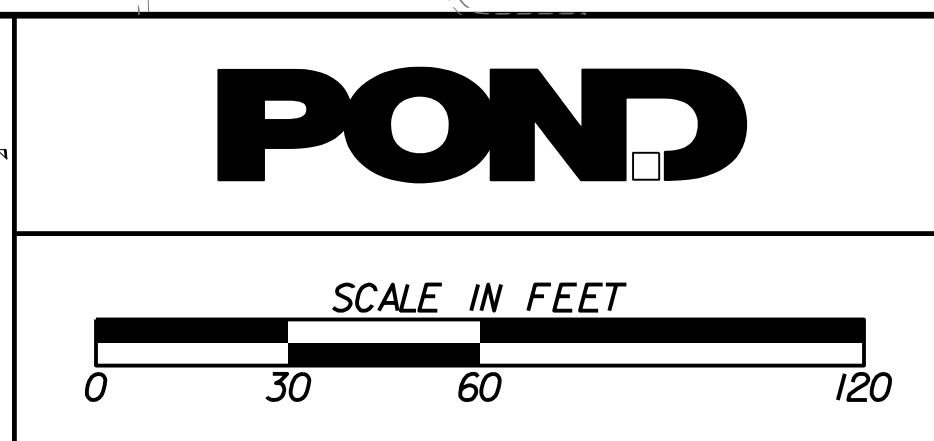
SIGNAL LEGEND

| | | | |
|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

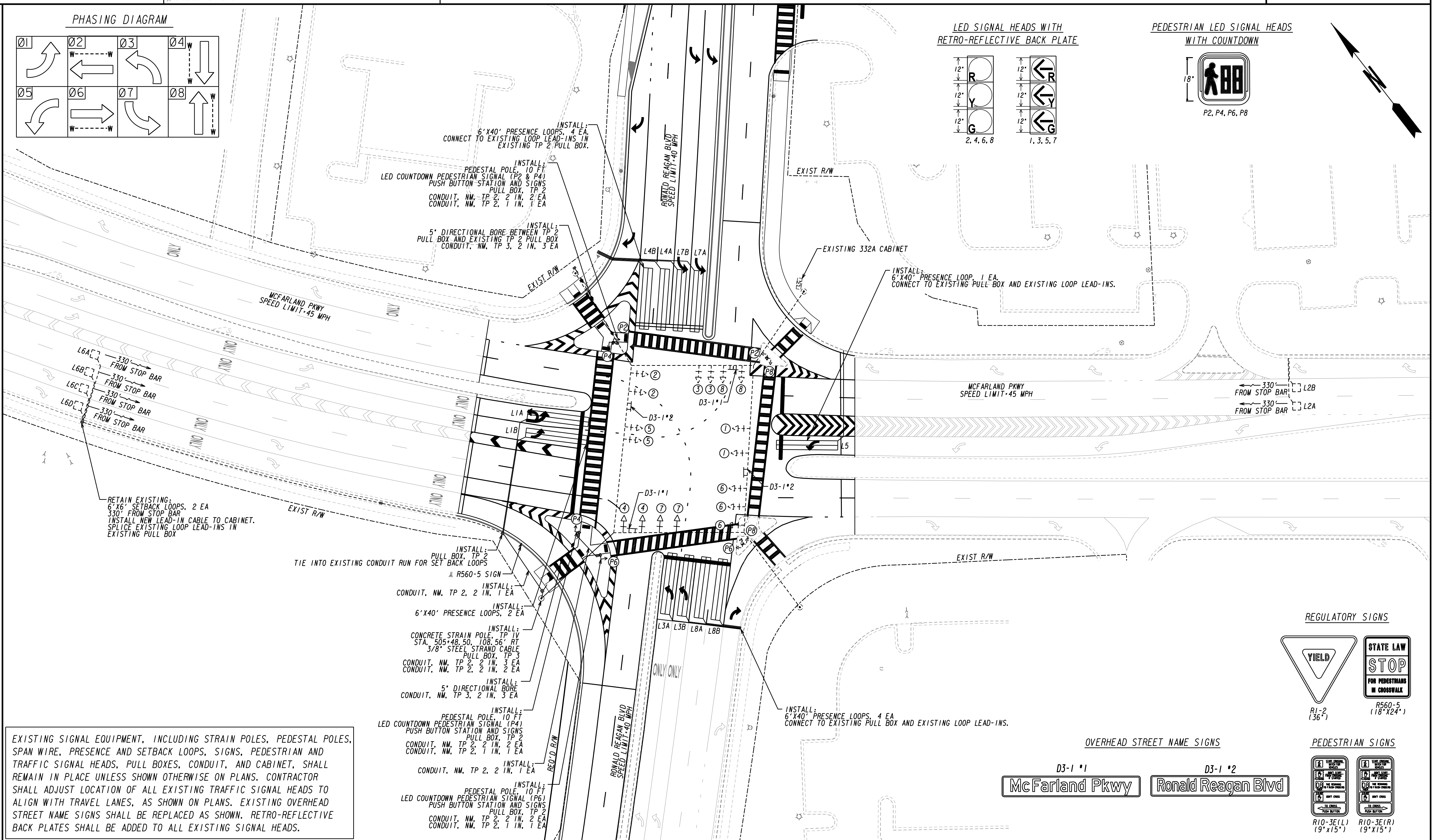
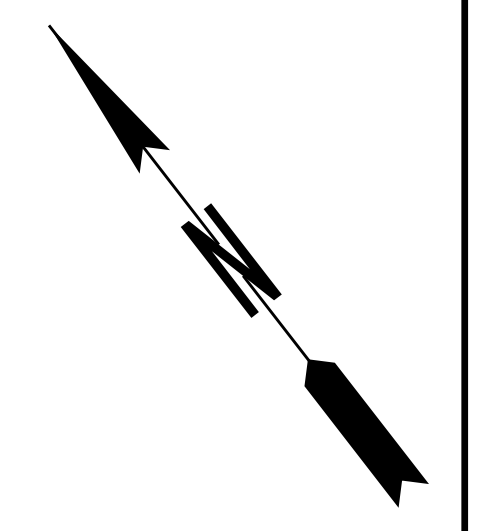
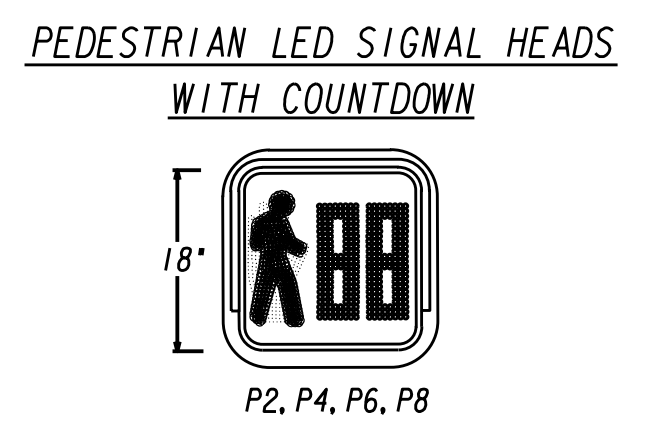
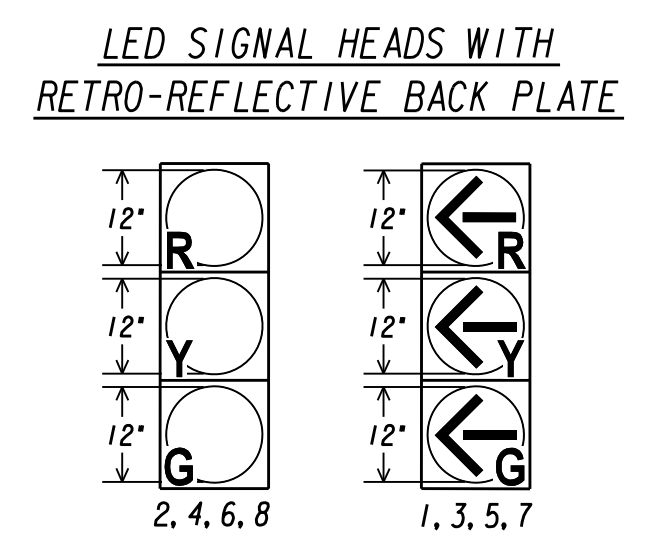
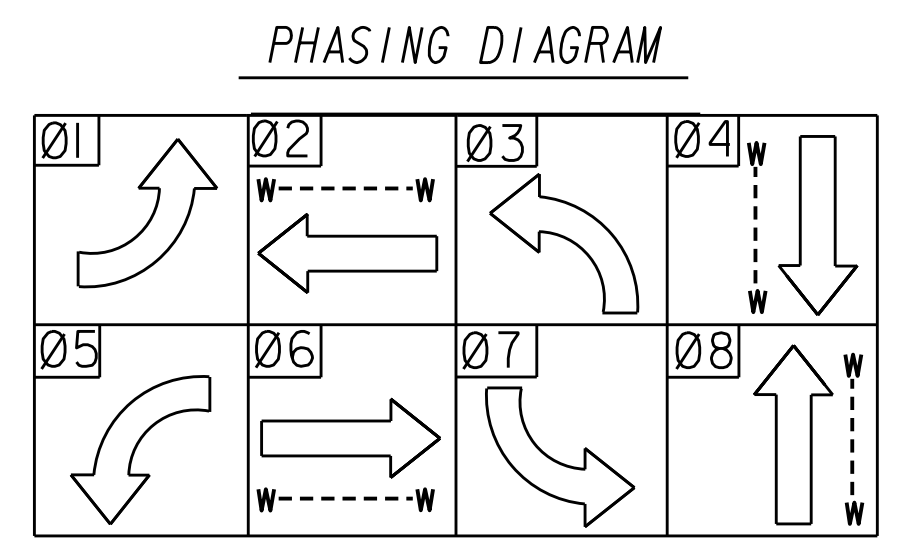


REVISION DATES

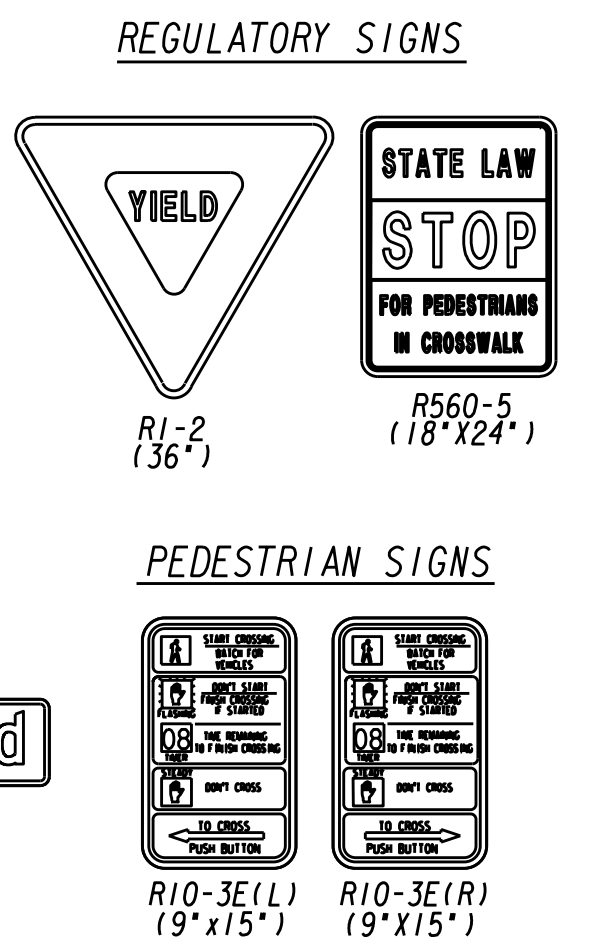
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| 01/23/2020 | | |
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SIGNAL PLANS
EXISTING CONDITIONS
RONALD REAGAN BLVD AT MCFARLAND PKWY

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0003 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



EXISTING SIGNAL EQUIPMENT, INCLUDING STRAIN POLES, PEDESTAL POLES, SPAN WIRE, PRESENCE AND SETBACK LOOPS, SIGNS, PEDESTRIAN AND TRAFFIC SIGNAL HEADS, PULL BOXES, CONDUIT, AND CABINET, SHALL REMAIN IN PLACE UNLESS SHOWN OTHERWISE ON PLANS. CONTRACTOR SHALL ADJUST LOCATION OF ALL EXISTING TRAFFIC SIGNAL HEADS TO ALIGN WITH TRAVEL LANES, AS SHOWN ON PLANS. EXISTING OVERHEAD STREET NAME SIGNS SHALL BE REPLACED AS SHOWN. RETRO-REFLECTIVE BACK PLATES SHALL BE ADDED TO ALL EXISTING SIGNAL HEADS.



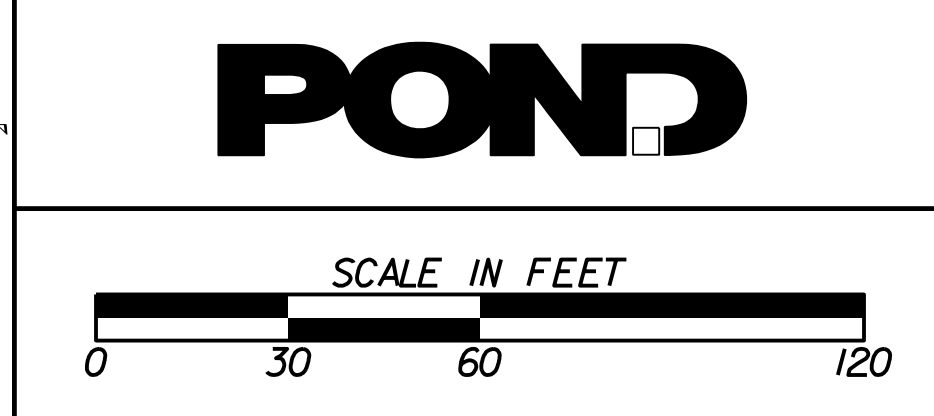
SIGNAL LEGEND

| | | | |
|-----|-----------------------|-----|---|
| ➔ | PROPOSED SIGNAL HEAD | ➔➔ | PROPOSED 4-SECTION SIGNAL HEAD |
| -➔➔ | EXISTING SIGNAL HEAD | ➔➔➔ | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| ➔➔ | RELOCATED SIGNAL HEAD | ⊙➔ | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-----------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED MAGNETOMETER |
| | PROPOSED INDUCTIVE LOOP | | PROPOSED RADAR |
| | PROPOSED VIDEO DETECTION CAMERA | | |

FORSYTH COUNTY
ENGINEERING DEPARTMENT



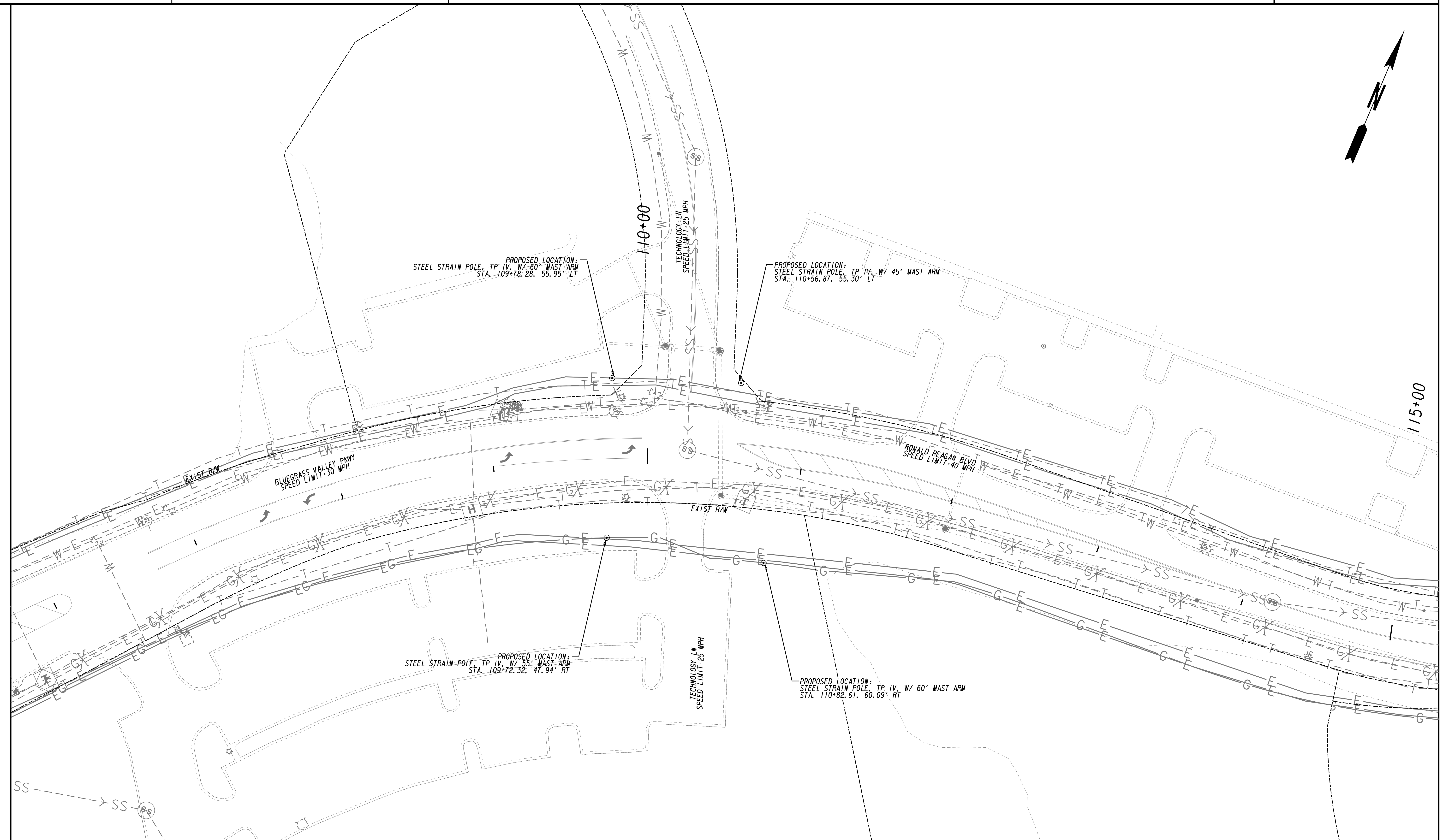
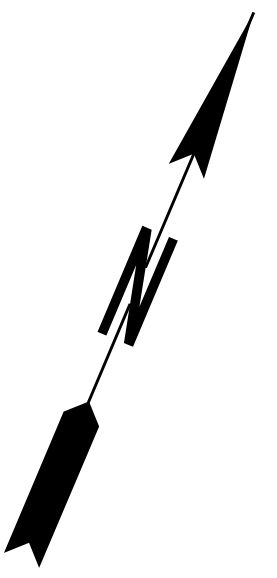
REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION NO. 1
RONALD REAGAN BLVD AT MCFARLAND PKWY

| | | |
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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0004 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



SIGNAL LEGEND

| | | | |
|-------|-----------------------|-----|---|
| ➔ | PROPOSED SIGNAL HEAD | ➔➔➔ | PROPOSED 4-SECTION SIGNAL HEAD |
| - - ➔ | EXISTING SIGNAL HEAD | ➔➔➔ | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| ➔➔ | RELOCATED SIGNAL HEAD | ⊙ | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | |
|--|---------------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE |
| | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA |
| | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

POND

SCALE IN FEET

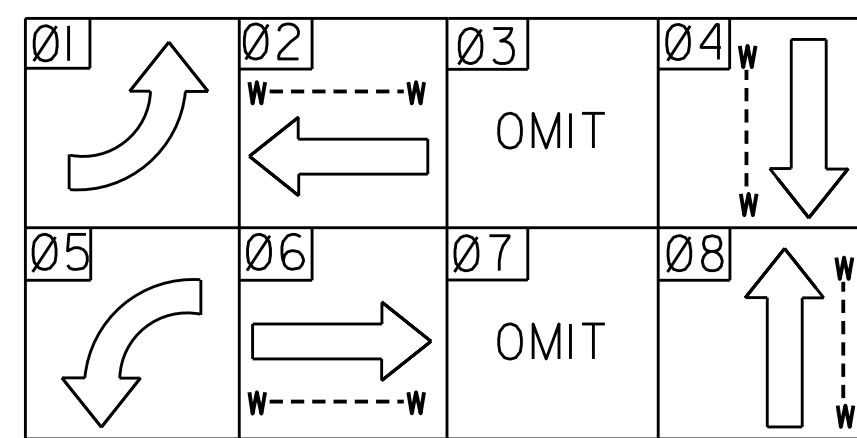
REVISION DATES

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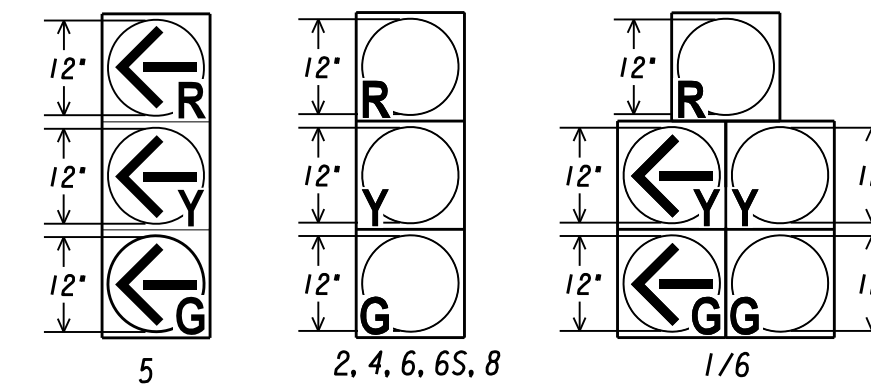
SIGNAL PLANS
EXISTING CONDITIONS
RONALD REAGAN BLVD AT TECHNOLOGY LN

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0006 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

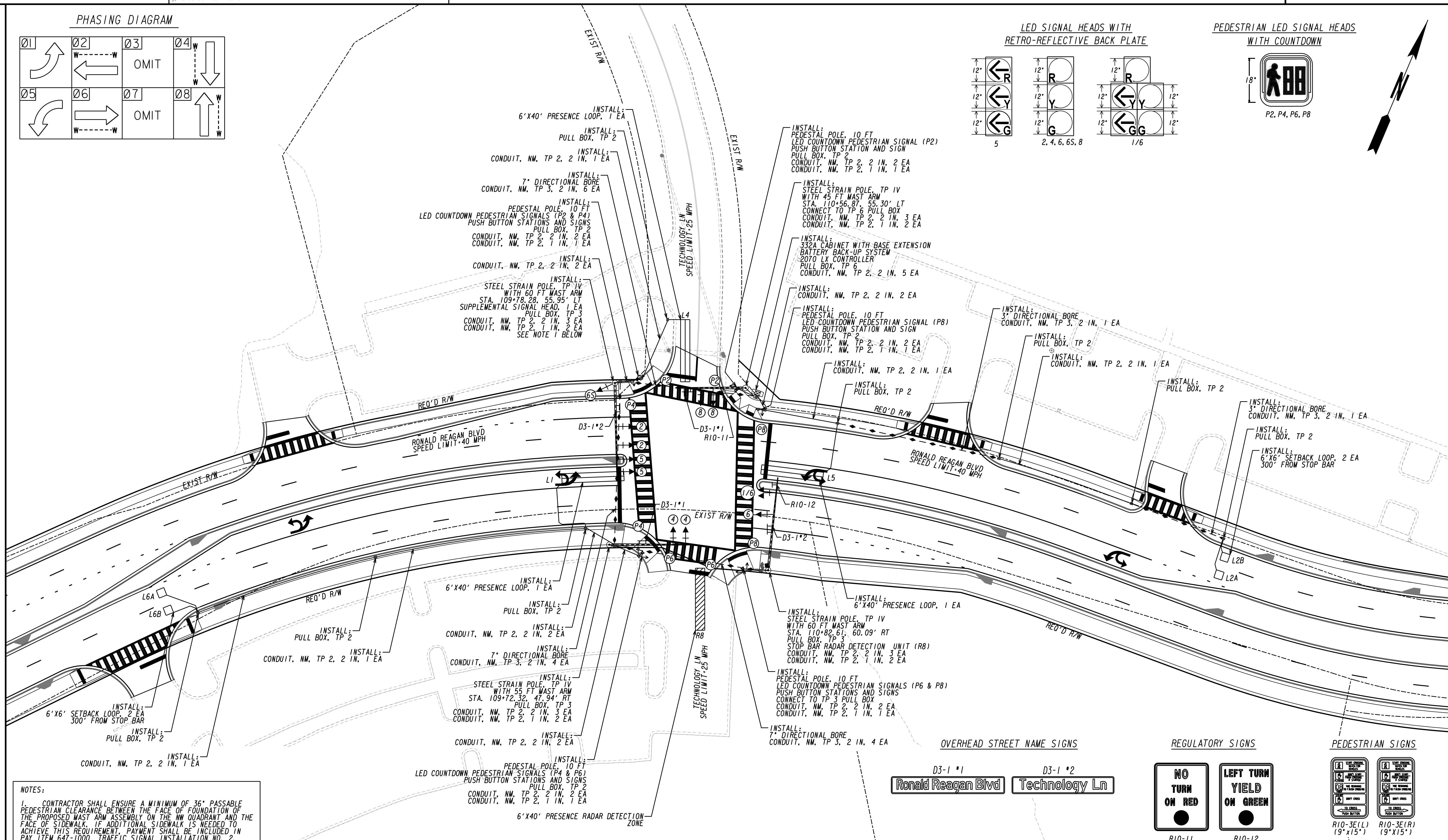
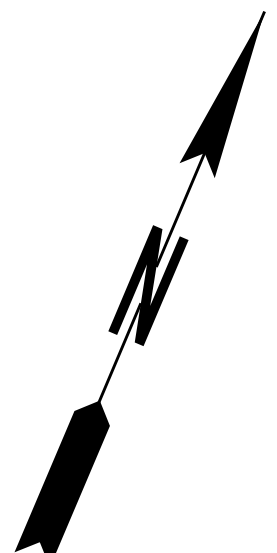
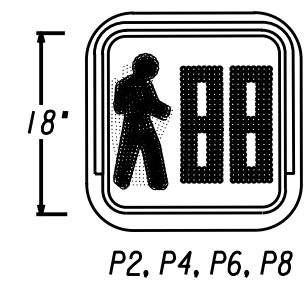
PHASING DIAGRAM



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACK PLATE



PEDESTRIAN LED SIGNAL HEADS WITH COUNTDOWN



NOTES:
 1. CONTRACTOR SHALL ENSURE A MINIMUM OF 36" PASSABLE PEDESTRIAN CLEARANCE BETWEEN THE FACE OF FOUNDATION OF THE PROPOSED MAST ARM ASSEMBLY ON THE NW QUADRANT AND THE FACE OF SIDEWALK. IF ADDITIONAL SIDEWALK IS NEEDED TO ACHIEVE THIS REQUIREMENT, PAYMENT SHALL BE INCLUDED IN PAY ITEM 647-1000 TRAFFIC SIGNAL INSTALLATION NO. 2.

OVERHEAD STREET NAME SIGNS
 D3-1 *1 Ronald Reagan Blvd D3-1 *2 Technology Ln

REGULATORY SIGNS
 R10-11 (30"x36") NO TURN ON RED
 R10-12 (30"x36") LEFT TURN YIELD ON GREEN

PEDESTRIAN SIGNS
 R10-3E(L) (9"x15")
 R10-3E(R) (9"x15")

SIGNAL LEGEND

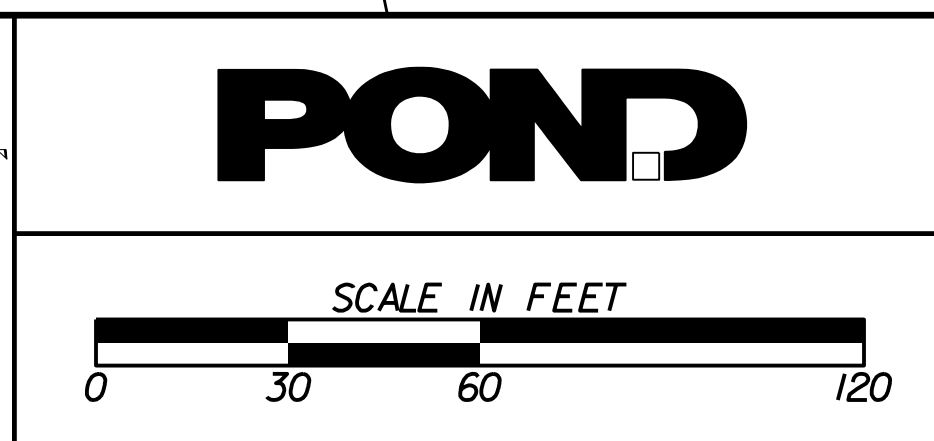
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|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
 ENGINEERING DEPARTMENT

SCALE IN FEET
 0 30 60 120



REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS
 TRAFFIC SIGNAL INSTALLATION NO. 2
 RONALD REAGAN BLVD AT TECHNOLOGY LN

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0007 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

LIST OF MATERIALS

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

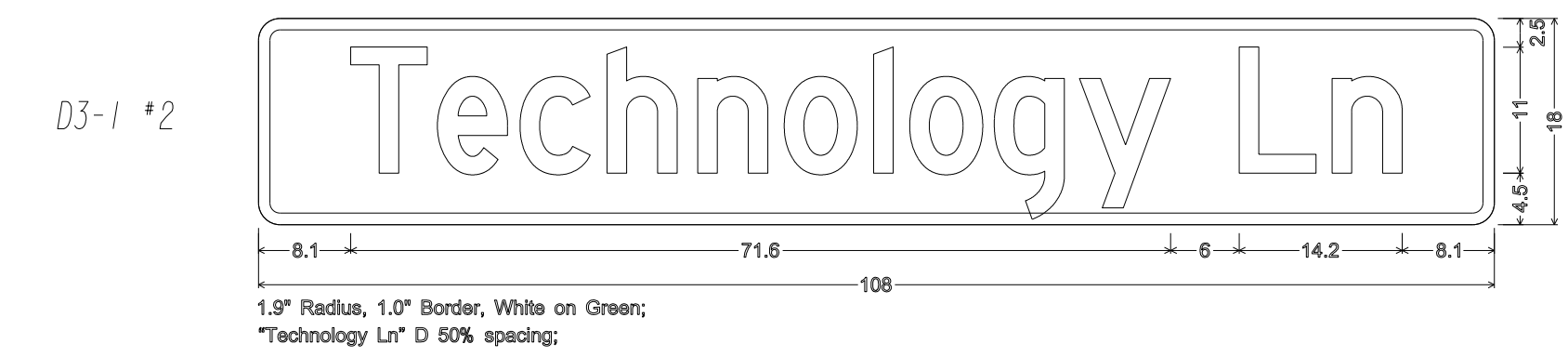
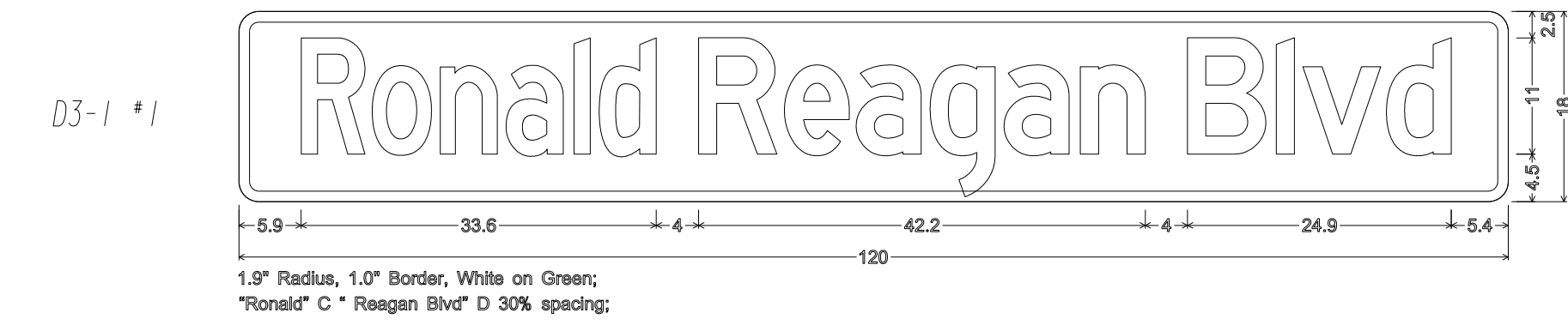
| MATERIALS | UNIT | QUANTITY |
|---|------|----------|
| CABINET CONTROLLER ASSEMBLIES | | |
| A. CONTROLLER UNIT, MODEL 2070LX | EA | 1 |
| E. CABINET ASSEMBLY, MODEL 332 | EA | 1 |
| F. SWITCH PACK (LOAD SWITCH) | EA | 10 |
| G. DC ISOLATOR | EA | 3 |
| H. LOOP DETECTOR, 2-CHANNEL | EA | 5 |
| L. 2010 SIGNAL MONITOR, TYPE B (ETHERNET) | EA | 1 |
| BATTERY BACKUP SYSTEM - EXTERNAL MOUNTED (PER GDOT SPEC) | EA | 1 |
| 332 PREFABRICATED CONTROLLER CABINET BASE W/ BBS EXTENTION | EA | 1 |
| PC642-200 (OR EQUIVALENT), SURGE PROTECTOR | EA | 1 |
| LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) | | |
| A. 3 PAIR 18 AWG | REEL | 2 |
| SIGNAL CABLE (14AWG) | | |
| A. 7 CONDUCTOR, PER 1000 FT | REEL | 3 |
| B. 10 CONDUCTOR, PER 1000 FT | REEL | 1 |
| LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT) | REEL | 2 |
| 3-SECTION, 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 10 |
| 5-SECTION, (CLUSTER) 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 1 |
| 1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS) | EA | 8 |
| PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS: 9"x15", R10-3E, (LEFT OR (R)IGHT, COUNTDOWN) | | |
| 1. 9"x15", R10-3EL, COUNTDOWN | EA | 4 |
| 2. 9"x15", R10-3ER, COUNTDOWN | EA | 4 |
| BACKPLATE FOR ONE-WAY, 3 SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 10 |
| BACKPLATE FOR ONE-WAY, 5 SECTION, (CLUSTER) 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 1 |
| HARDWARE FOR MAST ARM MOUNTING | EA | 10 |
| HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY - STEEL POLE (3-SECTION SIGNAL HEAD) | EA | 1 |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY | EA | 2 |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY | EA | 3 |
| 10" PEDESTAL POLE & SQUARE BASE | EA | 5 |
| PULL BOX, PB-2 | EA | 12 |
| PULL BOX, PB-3 | EA | 3 |
| PULL BOX, PB-6 | EA | 1 |
| LOOP SAW CUT | LF | 910 |
| CONDUIT, 1" | LF | 115 |
| CONDUIT, 2" | LF | 740 |
| R10-11, NO TURN ON RED SIGN | EA | 1 |
| R10-12, LEFT TURN YIELD ON GREEN SIGN | EA | 1 |
| MISC. MATL. TO COMPLETE INSTALLATION | LUMP | LUMP |

PAY ITEMS

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|---|----------|----------|
| 647-1000 | TRAFFIC SIGNAL INSTALLATION NO. 2 | LUMP SUM | LUMP SUM |
| 615-1100 | DIRECTIONAL BORE PIPE - 3 IN. | LF | 180 |
| 615-1100 | DIRECTIONAL BORE PIPE - 7 IN. | LF | 315 |
| 636-1041 | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 | SF | 57 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 45' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 55' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 60' MAST ARM | EA | 2 |
| 682-6233 | CONDUIT, NONMETAL, TP 3, 2 IN | LF | 1500 |
| 682-8525 | ELECTRICAL POWER SERVICE ASSEMBLY (UNDERGROUND SERVICE POINT) | EA | 1 |
| 937-6000 | MICROWAVE RADAR DETECTION ASSEMBLY | EA | 1 |
| 937-8020 | TESTING - MICROWAVE DETECTION SYSTEM | LUMP SUM | LUMP SUM |
| 937-8520 | TRAINING - MICROWAVE DETECTION SYSTEM | LUMP SUM | LUMP SUM |

RONALD REAGAN BLVD AT TECHNOLOGY LN

D3-1 OVERHEAD STREET NAME SIGN DETAILS



332 CABINET INPUT ASSIGNMENT

| SLOT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

UPPER INPUT FILE

| | TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-------------|
| CHANNEL 1 | CARD | 2-CH | 2-CH | | | | 2-CH | | | | | | DC 150 | DC 150 | DC 150 |
| | C1 PIN | 56 | 39 | 63 | 47 | 58 | 41 | 65 | 49 | 60 | | 80 | 67 | 68 | 81 |
| | FUNCTION | L1 | L2A | | | | L4 | | | | | | Ø2 PED | Ø6 PED | FLASH SENSE |
| | FIELD TERM | TB2 1,2 | TB2 5,6 | TB2 9,10 | TB4 1,2 | TB4 5,6 | TB4 9,10 | TB6 1,2 | TB6 5,6 | TB6 9,10 | | | TB8 4,6 | TB8 7,9 | N/C |

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | C1 PIN | 56 | 43 | 76 | 47 | 58 | 45 | 78 | 49 | 62 | | 53 | 69 | 70 | 82 |
| | FUNCTION | | L2B | | | | | | | | | | Ø4 PED | Ø8 PED | STOP TIME |
| | FIELD TERM | TB2 3,4 | TB2 7,8 | TB2 11,12 | TB4 3,4 | TB4 7,8 | TB4 11,12 | TB6 3,4 | TB6 7,8 | TB6 11,12 | | | TB8 5,6 | TB8 8,9 | N/C |

LOWER INPUT FILE

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|--|----|---------|---------|-----------|
| CHANNEL 1 | CARD | 2-CH | 2-CH | | | | | | | | | | | | |
| | C1 PIN | 55 | 40 | 64 | 48 | 57 | 42 | 66 | 50 | 59 | | 54 | 71 | 72 | 51 |
| | FUNCTION | L5 | L6A | | | | R8 | | | | | | | | |
| | FIELD TERM | TB3 1,2 | TB3 5,6 | TB3 9,10 | TB5 1,2 | TB5 5,6 | TB5 9,10 | TB7 1,2 | TB7 5,6 | TB7 9,10 | | | TB9 4,6 | TB9 7,9 | TB9 10,12 |

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | C1 PIN | 55 | 44 | 77 | 48 | 57 | 46 | 79 | 50 | 61 | | 75 | 73 | 74 | 52 |
| | FUNCTION | | L6B | | | | | | | | | | | | |
| | FIELD TERM | TB3 3,4 | TB3 7,8 | TB3 11,12 | TB5 3,4 | TB5 7,8 | TB5 11,12 | TB7 3,4 | TB7 7,8 | TB7 11,12 | | | TB9 5,6 | TB9 8,9 | TB9 11,12 |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

POND

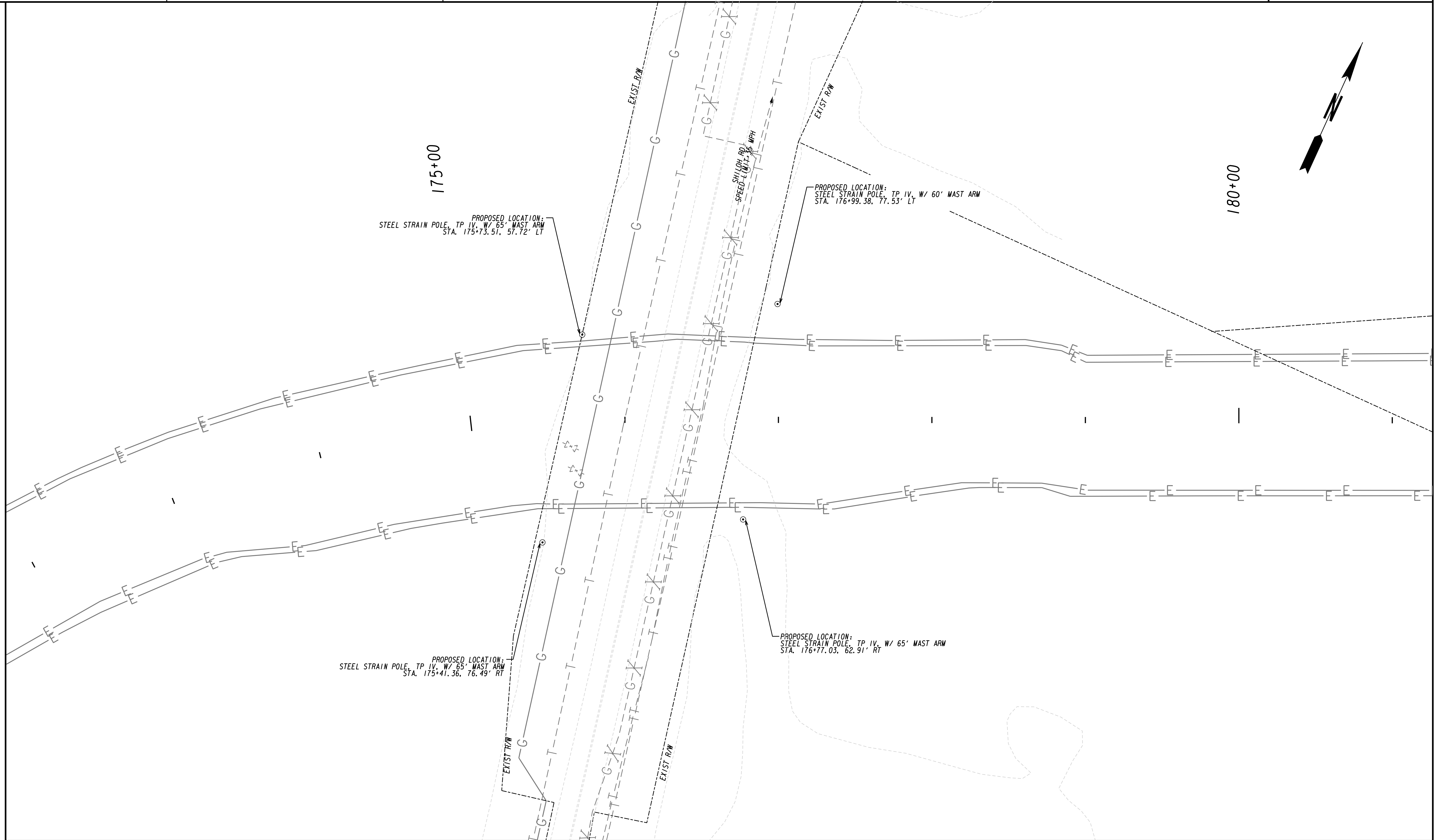
REVISION DATES

01/23/2020

SIGNAL PLANS

RONALD REAGAN BLVD EXTENSION
SUMMARY OF QUANTITIES

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0008 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



| SIGNAL LEGEND | |
|---------------|---|
| | PROPOSED SIGNAL HEAD |
| | EXISTING SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD |
| | PROPOSED 4-SECTION SIGNAL HEAD |
| | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | PEDESTRIAN SIGNAL HEAD |

| DETECTION LEGEND | |
|------------------|---------------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE |
| | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA |
| | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

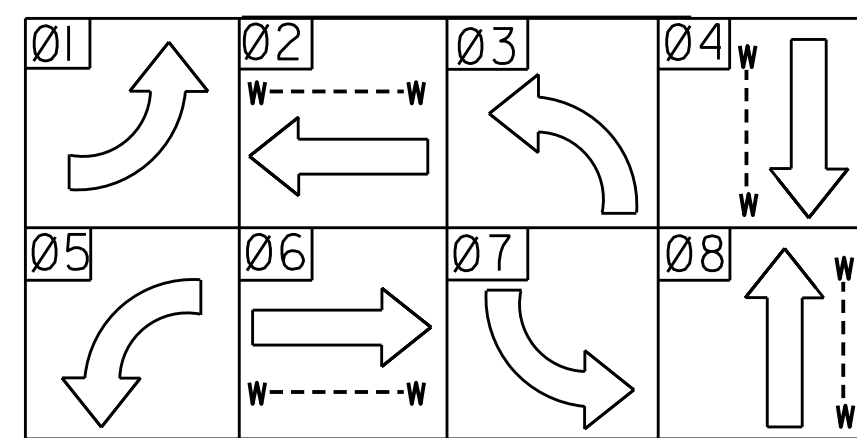
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SCALE IN FEET

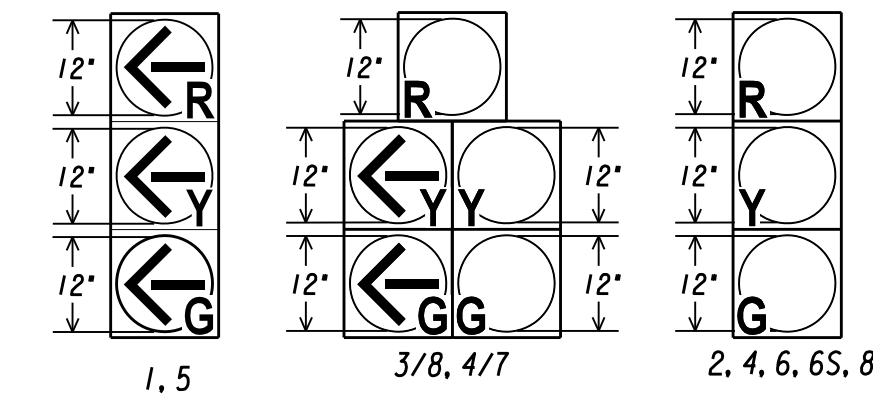
| REVISION DATES | |
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| 01/23/2020 | |
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| SIGNAL PLANS | | | |
|---------------------------------|-------|-------------|--|
| EXISTING CONDITIONS | | | |
| RONALD REAGAN BLVD AT SHILOH RD | | | |
| CHECKED: | DATE: | DRAWING No. | |
| BACKCHECKED: | DATE: | 27-0009 | |
| CORRECTED: | DATE: | | |
| VERIFIED: | DATE: | | |

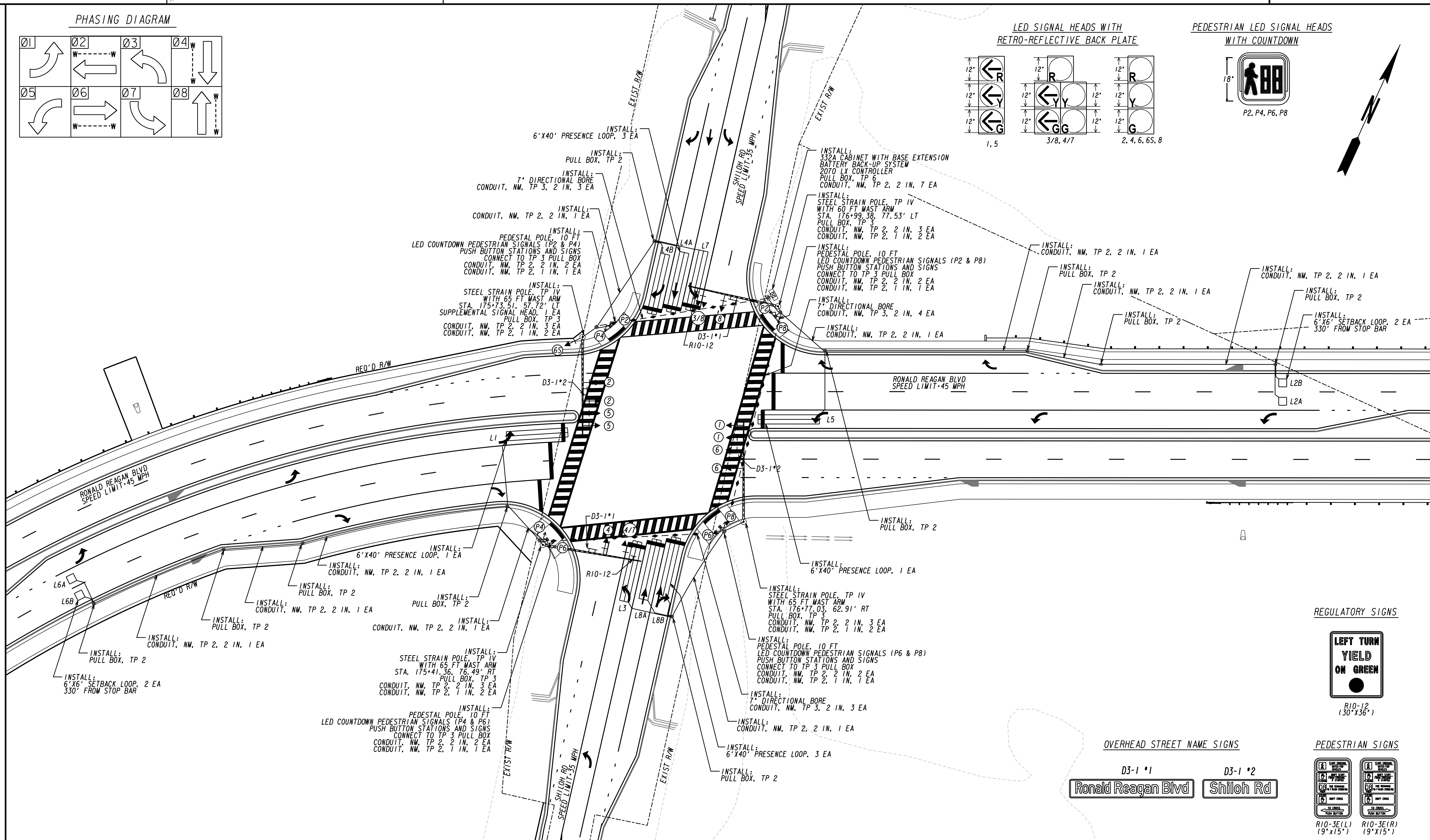
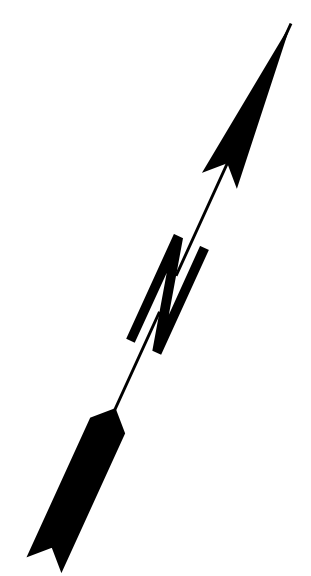
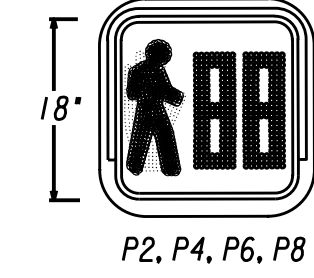
PHASING DIAGRAM



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACK PLATE



PEDESTRIAN LED SIGNAL HEADS WITH COUNTDOWN

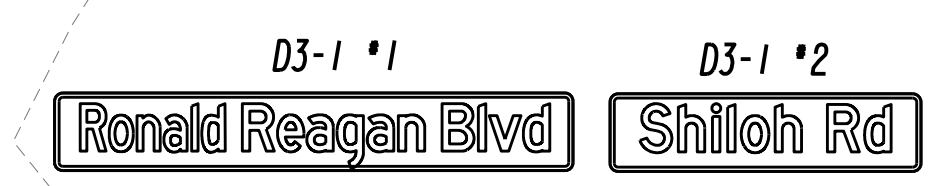


REGULATORY SIGNS

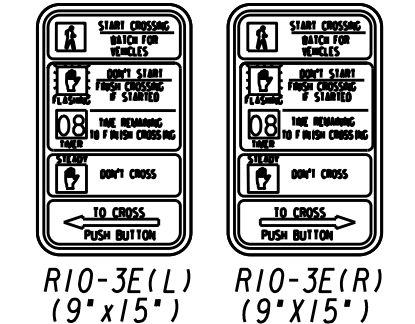


R10-12 (30"x36")

OVERHEAD STREET NAME SIGNS



PEDESTRIAN SIGNS



SIGNAL LEGEND

| | | | |
|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
 ENGINEERING DEPARTMENT

POND

SCALE IN FEET

REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION NO. 3
 RONALD REAGAN BLVD AT SHILOH RD

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0010 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

LIST OF MATERIALS

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

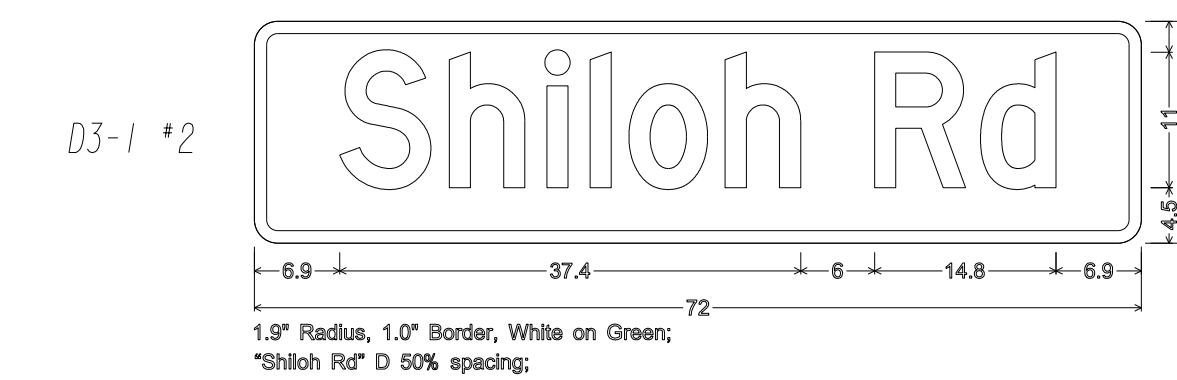
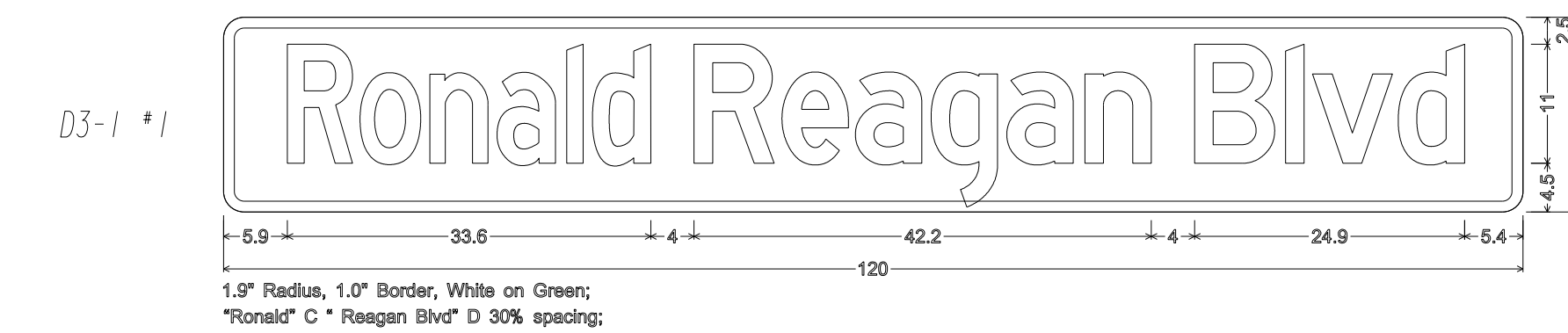
| MATERIALS | UNIT | QUANTITY |
|---|------|----------|
| CABINET CONTROLLER ASSEMBLIES | | |
| A. CONTROLLER UNIT, MODEL 2070LX | EA | 1 |
| E. CABINET ASSEMBLY, MODEL 332 | EA | 1 |
| F. SWITCH PACK (LOAD SWITCH) | EA | 12 |
| G. DC ISOLATOR | EA | 3 |
| H. LOOP DETECTOR, 2-CHANNEL | EA | 8 |
| L. 2010 SIGNAL MONITOR, TYPE B (ETHERNET) | EA | 1 |
| BATTERY BACKUP SYSTEM - EXTERNAL MOUNTED (PER GDOT SPEC) | EA | 1 |
| 332 PREFABRICATED CONTROLLER CABINET BASE W/ BBS EXTENTION | EA | 1 |
| PG642-200 (OR EQUIVALENT), SURGE PROTECTOR | EA | 1 |
| LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) | | |
| A. 3 PAIR 18 AWG | REEL | 3 |
| SIGNAL CABLE (14AWG) | | |
| A. 7 CONDUCTOR, PER 1000 FT | REEL | 3 |
| B. 10 CONDUCTOR, PER 1000 FT | REEL | 1 |
| LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT) | REEL | 4 |
| 3-SECTION, 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 11 |
| 5-SECTION, (CLUSTER) 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 2 |
| 1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS) | EA | 8 |
| PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS: 9"x15", R10-3E, (L)EFT OR (R)IGHT, COUNTDOWN | | |
| 1. 9"x15", R10-3EL, COUNTDOWN | EA | 4 |
| 2. 9"x15", R10-3ER, COUNTDOWN | EA | 4 |
| BACKPLATE FOR ONE-WAY, 3 SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 11 |
| BACKPLATE FOR ONE-WAY, 5 SECTION, (CLUSTER) 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 2 |
| HARDWARE FOR MAST ARM MOUNTING | | |
| HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY - STEEL POLE (3-SECTION SIGNAL HEAD) | EA | 1 |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY | EA | 4 |
| 10" PEDESTAL POLE & SQUARE BASE | EA | 4 |
| PULL BOX, PB-2 | EA | 10 |
| PULL BOX, PB-3 | EA | 4 |
| PULL BOX, PB-6 | EA | 1 |
| LOOP SAW CUT | LF | 1900 |
| CONDUIT, 1" | LF | 125 |
| CONDUIT, 2" | LF | 975 |
| R10-12, LEFT TURN YIELD ON GREEN SIGN | EA | 2 |
| MISC. MATL. TO COMPLETE INSTALLATION | LUMP | LUMP |

PAY ITEMS

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|---|----------|----------|
| 647-1000 | TRAFFIC SIGNAL INSTALLATION NO. 3 | LUMP SUM | LUMP SUM |
| 615-1100 | DIRECTIONAL BORE PIPE - 7 IN. | LF | 415 |
| 636-1041 | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 | SF | 48 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 60" MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 65" MAST ARM | EA | 3 |
| 682-6233 | CONDUIT, NONMETAL, TP 3, 2 IN | LF | 1400 |
| 682-8525 | ELECTRICAL POWER SERVICE ASSEMBLY (UNDERGROUND SERVICE POINT) | EA | 1 |

RONALD REAGAN BLVD AT SHILOH RD

D3-1 OVERHEAD STREET NAME SIGN DETAILS



332 CABINET INPUT ASSIGNMENT

| SLOT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

UPPER INPUT FILE

| | TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-------------|
| CHANNEL 1 | CARD | 2-CH | 2-CH | | | 2-CH | 2-CH | | | | | | DC 150 | DC 150 | DC 150 |
| | CJ PIN | 56 | 39 | 63 | 47 | 58 | 41 | 65 | 49 | 60 | | 80 | 67 | 68 | 81 |
| | FUNCTION | L1 | L2A | | | L3 | L4A | | | | | | R2 PED | R6 PED | FLASH SENSE |
| | FIELD TERM | TB2 1,2 | TB2 5,6 | TB2 9,10 | TB4 1,2 | TB4 5,6 | TB4 9,10 | TB6 1,2 | TB6 5,6 | TB6 9,10 | | | TB8 4,6 | TB8 7,9 | N/C |

| | CJ PIN | 56 | 43 | 76 | 47 | 58 | 45 | 78 | 49 | 62 | | 53 | 69 | 70 | 82 |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | FUNCTION | | L2B | | | L4B | | | | | | | R4 PED | R8 PED | STOP TIME |
| | FIELD TERM | TB2 3,4 | TB2 7,8 | TB2 11,12 | TB4 3,4 | TB4 7,8 | TB4 11,12 | TB6 3,4 | TB6 7,8 | TB6 11,12 | | | TB8 5,6 | TB8 8,9 | N/C |

LOWER INPUT FILE

| | TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-----------|
| CHANNEL 1 | CARD | 2-CH | 2-CH | | | 2-CH | 2-CH | | | | | | | | |
| | CJ PIN | 55 | 40 | 64 | 48 | 57 | 42 | 66 | 50 | 59 | | 54 | 71 | 72 | 51 |
| | FUNCTION | L5 | L6A | | | L7 | L8A | | | | | | | | |
| | FIELD TERM | TB3 1,2 | TB3 5,6 | TB3 9,10 | TB5 1,2 | TB5 5,6 | TB5 9,10 | TB7 1,2 | TB7 5,6 | TB7 9,10 | | | TB9 4,6 | TB9 7,9 | TB9 10,12 |

| | CJ PIN | 55 | 44 | 77 | 48 | 57 | 46 | 79 | 50 | 61 | | 75 | 73 | 74 | 52 |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | FUNCTION | | L6B | | | L8B | | | | | | | | | |
| | FIELD TERM | TB3 3,4 | TB3 7,8 | TB3 11,12 | TB5 3,4 | TB5 7,8 | TB5 11,12 | TB7 3,4 | TB7 7,8 | TB7 11,12 | | | TB9 5,6 | TB9 8,9 | TB9 11,12 |

FORSYTH COUNTY
ENGINEERING DEPARTMENT



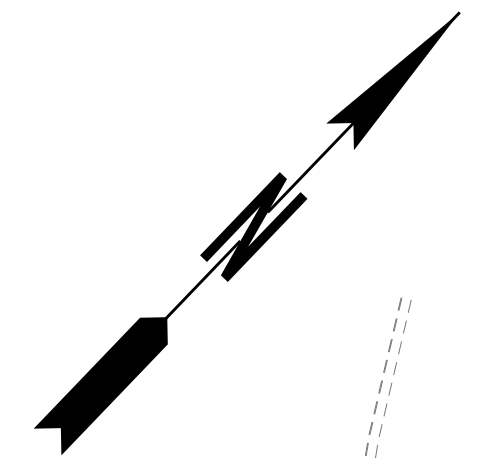
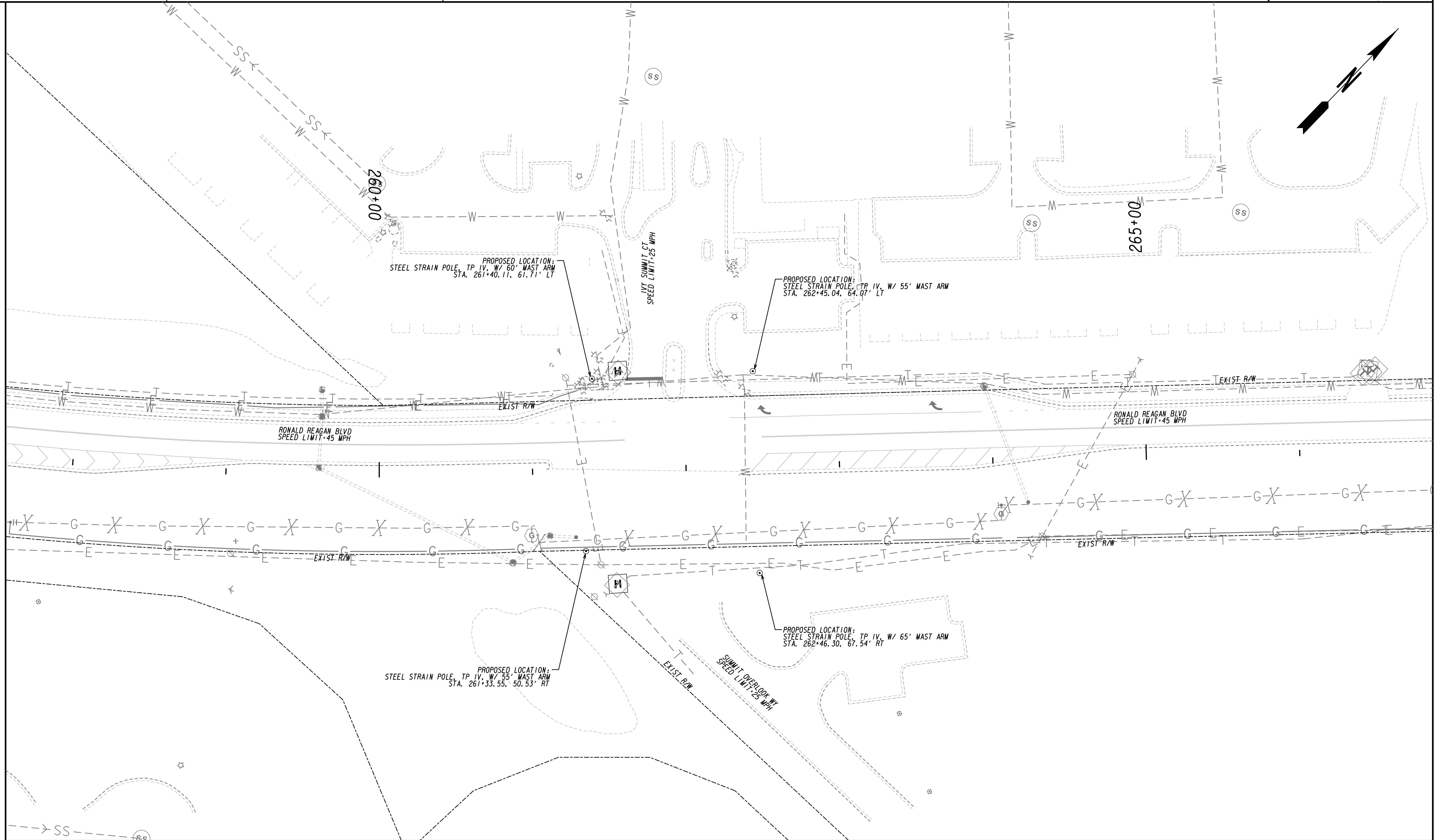
REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS

RONALD REAGEN BLVD EXTENSION
SUMMARY OF QUANTITIES

| CHECKED: | DATE: | DRAWING No. |
|--------------|-------|-------------|
| BACKCHECKED: | DATE: | 27-0011 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



| SIGNAL LEGEND | |
|---------------|---|
| ➔ | PROPOSED SIGNAL HEAD |
| ➔➔➔ | PROPOSED 4-SECTION SIGNAL HEAD |
| - - - ➔ | EXISTING SIGNAL HEAD |
| ➔➔➔ | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| ➔➔ | RELOCATED SIGNAL HEAD |
| ⊙➔ | PEDESTRIAN SIGNAL HEAD |

| DETECTION LEGEND | |
|------------------|---------------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE |
| | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA |
| ⊙ | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

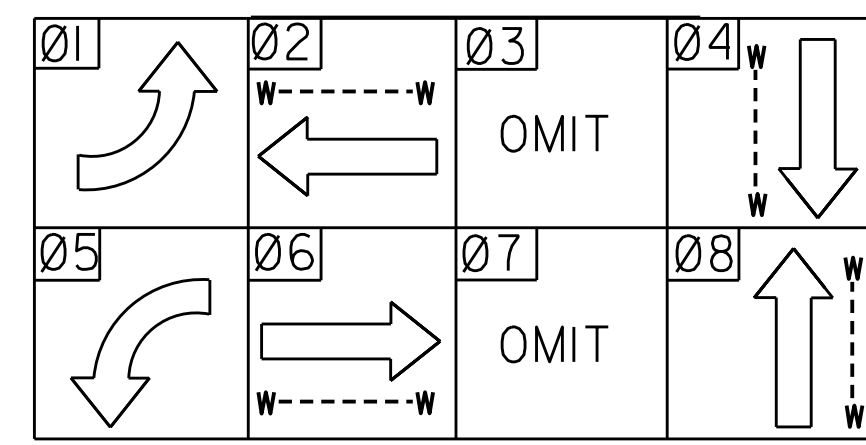
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SCALE IN FEET

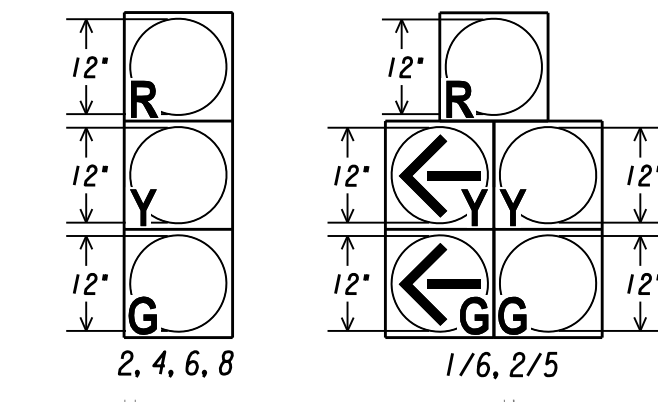
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| 01/23/2020 | |
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| SIGNAL PLANS | | | |
|--|-------|-------------|--|
| EXISTING CONDITIONS | | | |
| RONALD REAGAN BLVD AT IVY SUMMIT CT/SUMMIT OVERLOOK WY | | | |
| CHECKED: | DATE: | DRAWING No. | |
| BACKCHECKED: | DATE: | 27-0012 | |
| CORRECTED: | DATE: | | |
| VERIFIED: | DATE: | | |

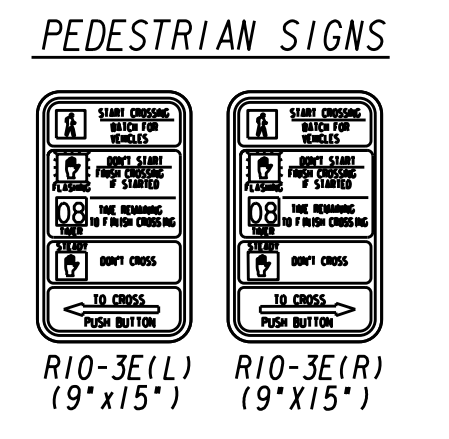
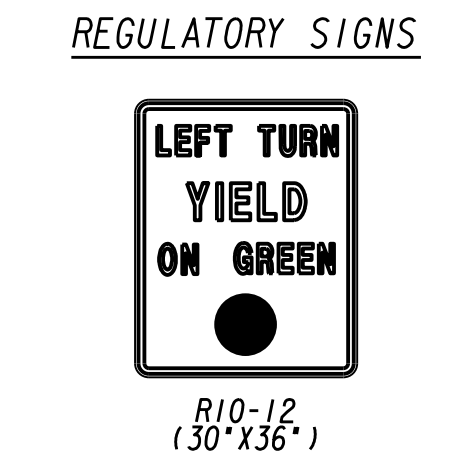
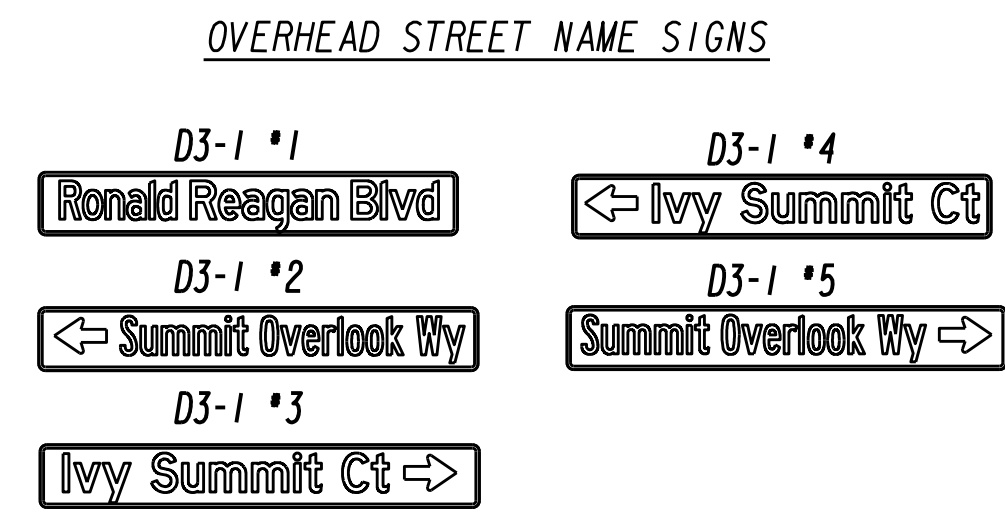
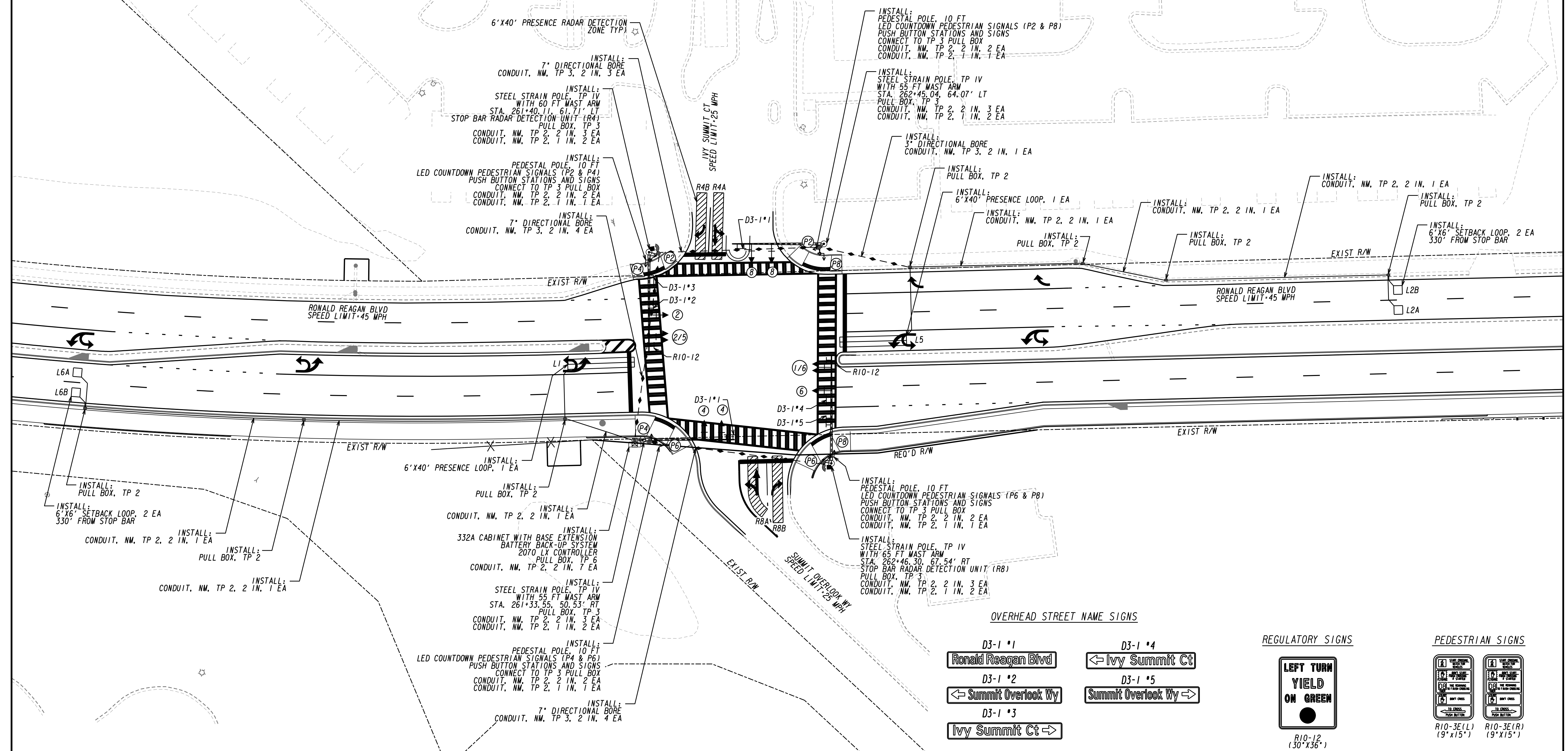
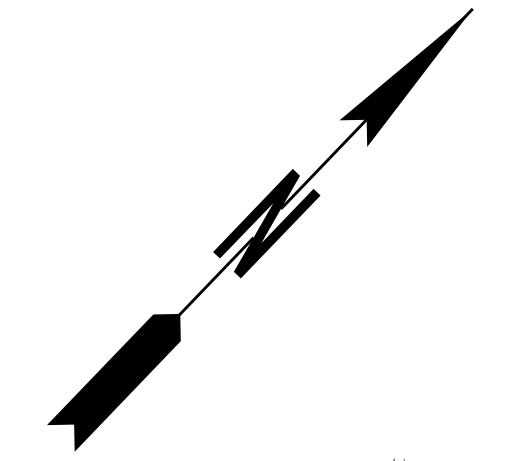
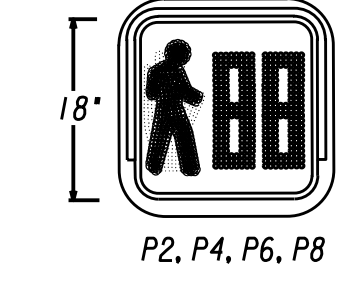
PHASING DIAGRAM



LED SIGNAL HEADS WITH
RETRO-REFLECTIVE BACK PLATE



PEDESTRIAN LED SIGNAL HEADS
WITH COUNTDOWN



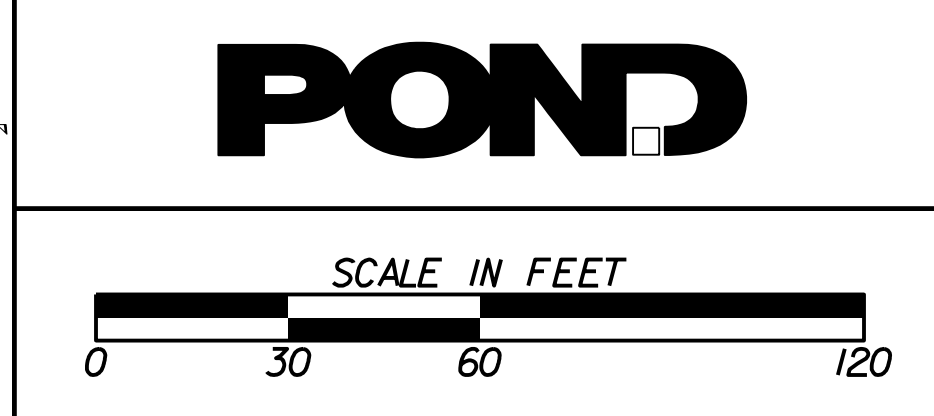
SIGNAL LEGEND

| | | | |
|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
ENGINEERING DEPARTMENT



REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION NO. 4
RONALD REAGAN BLVD AT IVY SUMMIT CT/SUMMIT OVERLOOK WY

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0013 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

LIST OF MATERIALS

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

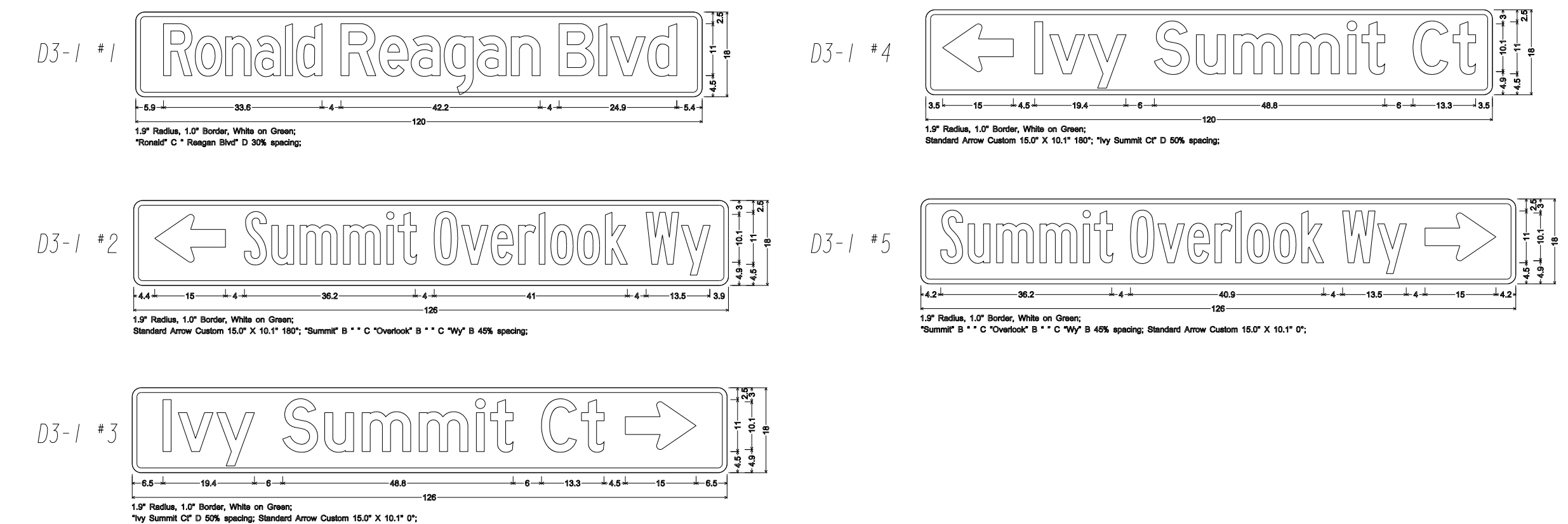
| MATERIALS | UNIT | QUANTITY |
|---|------|----------|
| CABINET CONTROLLER ASSEMBLIES | | |
| A. CONTROLLER UNIT, MODEL 2070LX | EA | 1 |
| E. CABINET ASSEMBLY, MODEL 332 | EA | 1 |
| F. SWITCH PACK (LOAD SWITCH) | EA | 10 |
| G. DC ISOLATOR | EA | 3 |
| H. LOOP DETECTOR, 2-CHANNEL | EA | 4 |
| L. 2010 SIGNAL MONITOR, TYPE B (ETHERNET) | EA | 1 |
| BATTERY BACKUP SYSTEM - EXTERNAL MOUNTED (PER GDOT SPEC) | EA | 1 |
| 332 PREFABRICATED CONTROLLER CABINET BASE W/ BBS EXTENTION | EA | 1 |
| PC642-200 (OR EQUIVALENT), SURGE PROTECTOR | EA | 1 |
| LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) | | |
| A. 3 PAIR 18 AWG | REEL | 2 |
| SIGNAL CABLE (14AWG) | | |
| A. 7 CONDUCTOR, PER 1000 FT | REEL | 2 |
| B. 10 CONDUCTOR, PER 1000 FT | REEL | 1 |
| LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT) | REEL | 2 |
| 3-SECTION, 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 6 |
| 5-SECTION, (CLUSTER) 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 2 |
| 1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS) | EA | 8 |
| PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS: 9"x15", R10-3E, (LEFT OR (R)IGHT, COUNTDOWN | | |
| 1. 9"x15", R10-3EL, COUNTDOWN | EA | 4 |
| 2. 9"x15", R10-3ER, COUNTDOWN | EA | 4 |
| BACKPLATE FOR ONE-WAY, 3 SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 6 |
| BACKPLATE FOR ONE-WAY, 5 SECTION, (CLUSTER) 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 2 |
| HARDWARE FOR MAST ARM MOUNTING | EA | 8 |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY | EA | 4 |
| 10" PEDESTAL POLE & SQUARE BASE | EA | 4 |
| PULL BOX, PB-2 | EA | 7 |
| PULL BOX, PB-3 | EA | 4 |
| PULL BOX, PB-6 | EA | 1 |
| LOOP SAW CUT | LF | 625 |
| CONDUIT, 1" | LF | 70 |
| CONDUIT, 2" | LF | 750 |
| R10-12, LEFT TURN YIELD ON GREEN SIGN | EA | 2 |
| MISC. MATL. TO COMPLETE INSTALLATION | LUMP | LUMP |

PAY ITEMS

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|---|----------|----------|
| 647-1000 | TRAFFIC SIGNAL INSTALLATION NO. 4 | LUMP SUM | LUMP SUM |
| 615-1100 | DIRECTIONAL BORE PIPE - 3 IN. | LF | 55 |
| 615-1100 | DIRECTIONAL BORE PIPE - 7 IN. | LF | 340 |
| 636-1041 | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 | SF | 93 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 55' MAST ARM | EA | 2 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 60' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 65' MAST ARM | EA | 1 |
| 682-6233 | CONDUIT, NONMETAL, TP 3, 2 IN | LF | 1250 |
| 682-8525 | ELECTRICAL POWER SERVICE ASSEMBLY (UNDERGROUND SERVICE POINT) | EA | 1 |
| 937-6000 | MICROWAVE RADAR DETECTION ASSEMBLY | EA | 2 |
| 937-8020 | TESTING - MICROWAVE DETECTION SYSTEM | LUMP SUM | LUMP SUM |
| 937-8520 | TRAINING - MICROWAVE DETECTION SYSTEM | LUMP SUM | LUMP SUM |

RONALD REAGAN BLVD AT IVY SUMMIT CT/SUMMIT OVERLOOK WY

D3-1 OVERHEAD STREET NAME SIGN DETAILS



332 CABINET INPUT ASSIGNMENT

| SLOT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

UPPER INPUT FILE

| TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-------------|
| CARD | 2-CH | 2-CH | | | | WR | | | | | | DC 150 | DC 150 | DC 150 |
| C1 PIN | 56 | 39 | 63 | 47 | 58 | 41 | 65 | 49 | 60 | | 80 | 67 | 68 | 81 |
| FUNCTION | L1 | L2A | | | | R4A | | | | | | 02 PED | 06 PED | FLASH SENSE |
| FIELD TERM | TB2 1,2 | TB2 5,6 | TB2 9,10 | TB4 1,2 | TB4 5,6 | TB4 9,10 | TB6 1,2 | TB6 5,6 | TB6 9,10 | | | TB8 4,6 | TB8 7,9 | N/C |

| TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|-----|-----|---------|---------|-----------|
| CARD | 2-CH | 2-CH | | | | WR | | | | | | DC 150 | DC 150 | DC 150 |
| C1 PIN | 56 | 43 | 76 | 47 | 58 | 45 | 78 | 49 | 62 | | 53 | 69 | 70 | 82 |
| FUNCTION | L1 | L2B | | | | R4B | | | | | | 04 PED | 08 PED | STOP TIME |
| FIELD TERM | TB2 3,4 | TB2 7,8 | TB2 11,12 | TB4 3,4 | TB4 7,8 | TB4 11,12 | TB6 3,4 | TB6 7,8 | TB6 11,12 | | | TB8 5,6 | TB8 8,9 | N/C |

LOWER INPUT FILE

| TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-----------|
| CARD | 2-CH | 2-CH | | | | WR | | | | | | DC 150 | DC 150 | DC 150 |
| C1 PIN | 55 | 40 | 64 | 48 | 57 | 42 | 66 | 50 | 59 | | 54 | 71 | 72 | 51 |
| FUNCTION | L5 | L6A | | | | R8A | | | | | | | | |
| FIELD TERM | TB3 1,2 | TB3 5,6 | TB3 9,10 | TB5 1,2 | TB5 5,6 | TB5 9,10 | TB7 1,2 | TB7 5,6 | TB7 9,10 | | | TB9 4,6 | TB9 7,9 | TB9 10,12 |

| TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|-----|-----|---------|---------|-----------|
| CARD | 2-CH | 2-CH | | | | WR | | | | | | DC 150 | DC 150 | DC 150 |
| C1 PIN | 55 | 44 | 77 | 48 | 57 | 46 | 79 | 50 | 61 | | 75 | 73 | 74 | 52 |
| FUNCTION | L5 | L6B | | | | R8B | | | | | | | | |
| FIELD TERM | TB3 3,4 | TB3 7,8 | TB3 11,12 | TB5 3,4 | TB5 7,8 | TB5 11,12 | TB7 3,4 | TB7 7,8 | TB7 11,12 | | | TB9 5,6 | TB9 8,9 | TB9 11,12 |

FORSYTH COUNTY
ENGINEERING DEPARTMENT



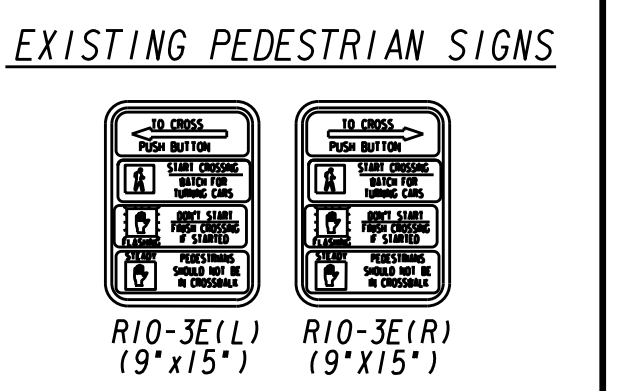
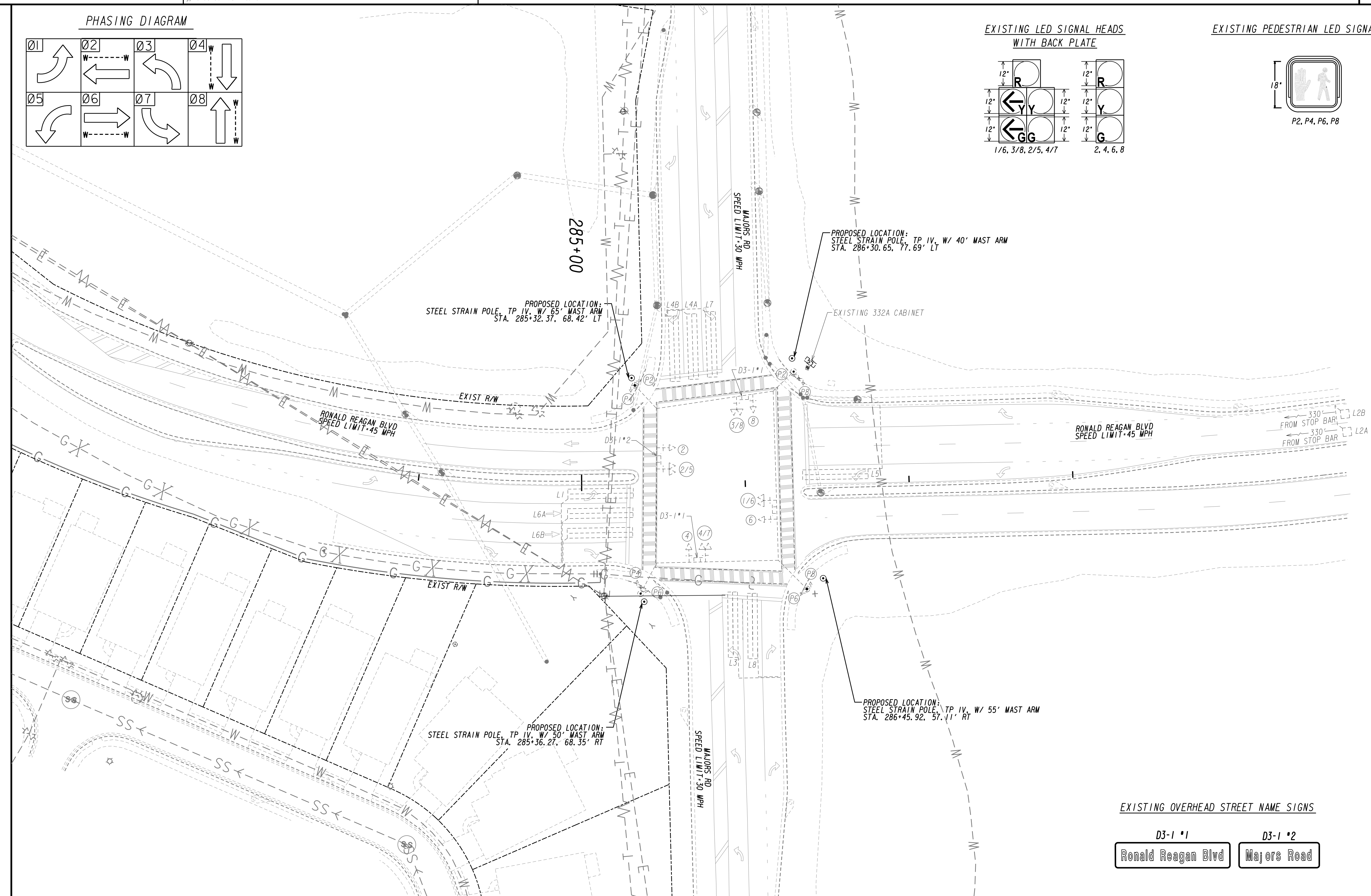
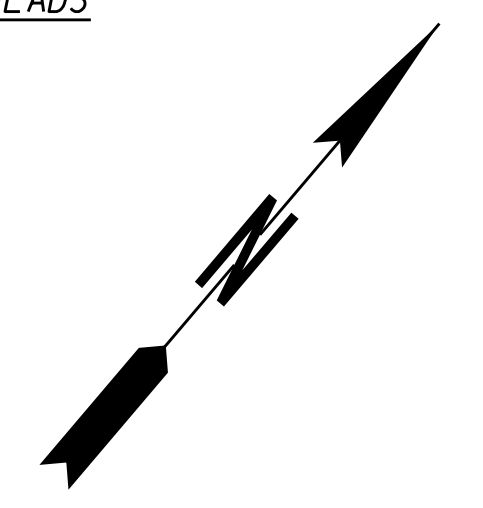
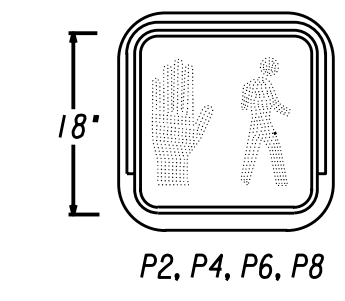
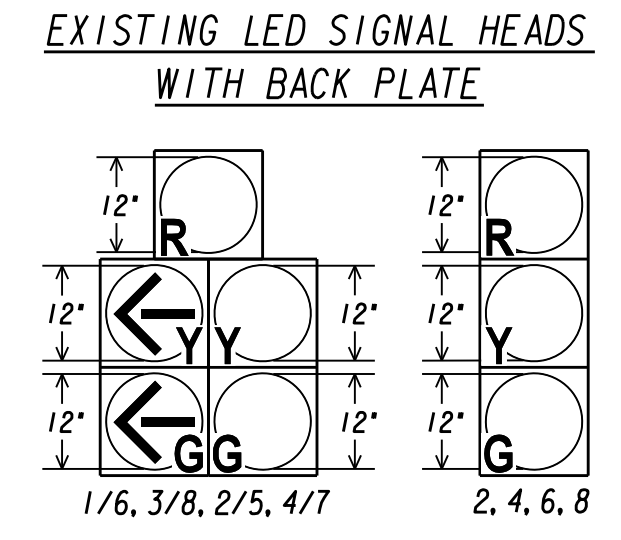
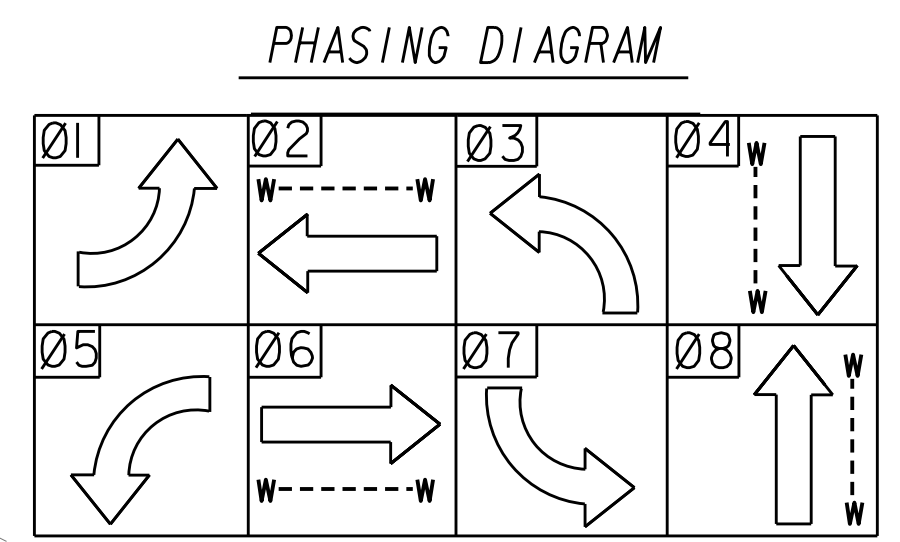
REVISION DATES

| DATE | DESCRIPTION |
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SIGNAL PLANS

RONALD REAGAN BLVD EXTENSION
SUMMARY OF QUANTITIES

| CHECKED: | DATE: | DRAWING No. |
|--------------|-------|-------------|
| BACKCHECKED: | DATE: | 27-0014 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



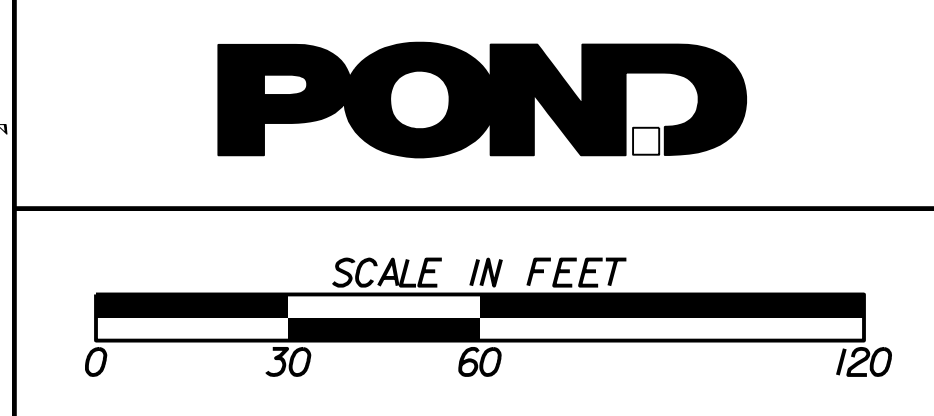
SIGNAL LEGEND

| | | | |
|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|-------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED INDUCTIVE LOOP |
| | PROPOSED VIDEO DETECTION CAMERA | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

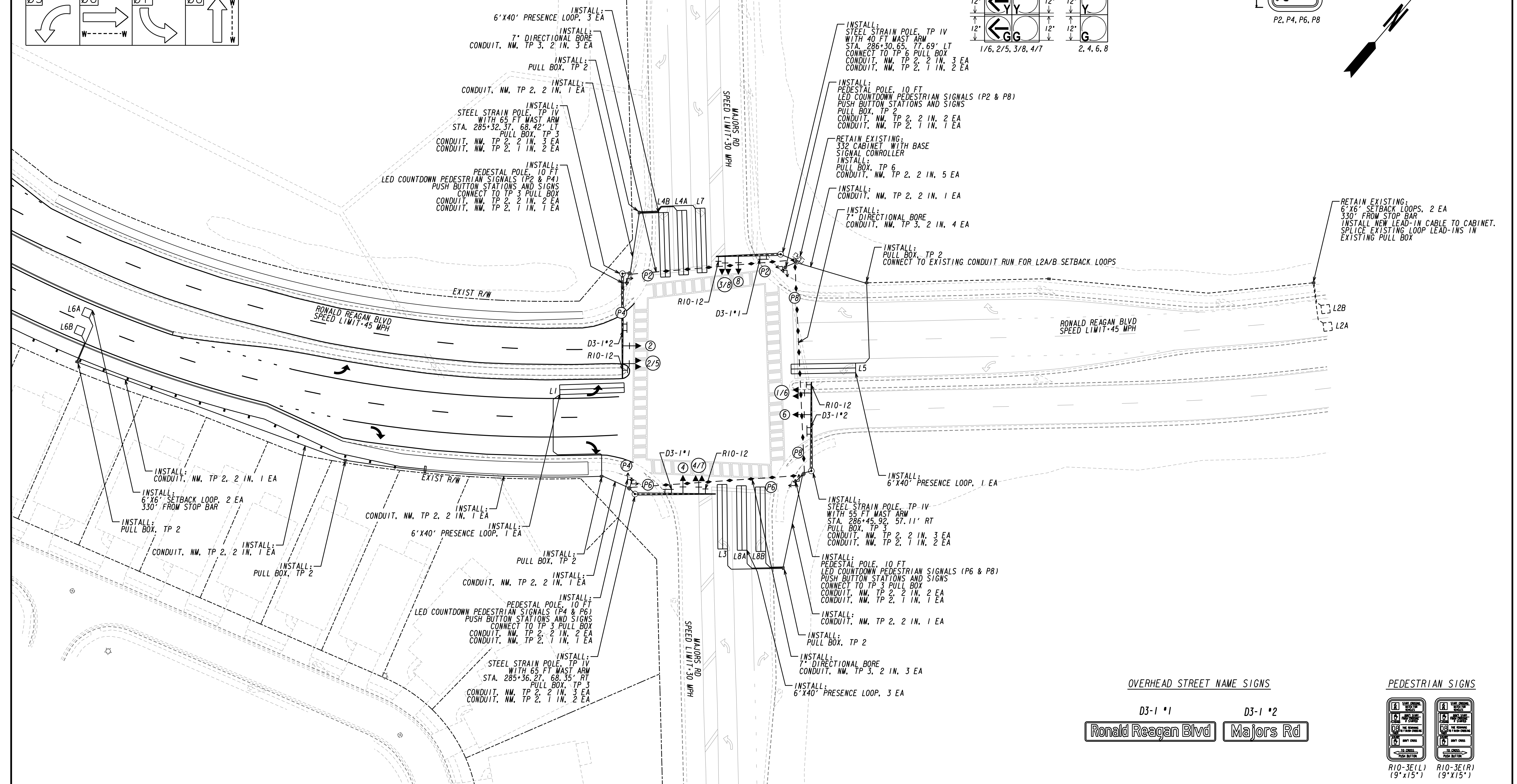
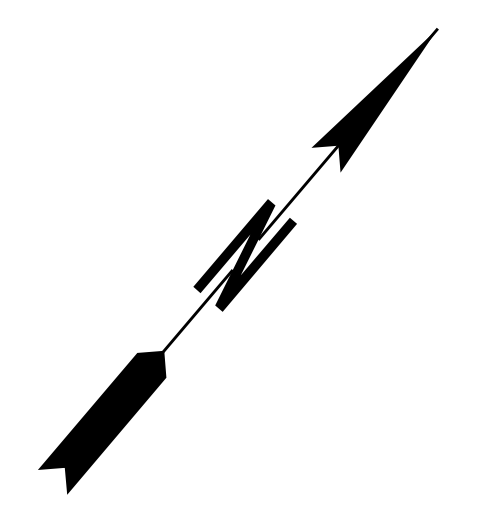
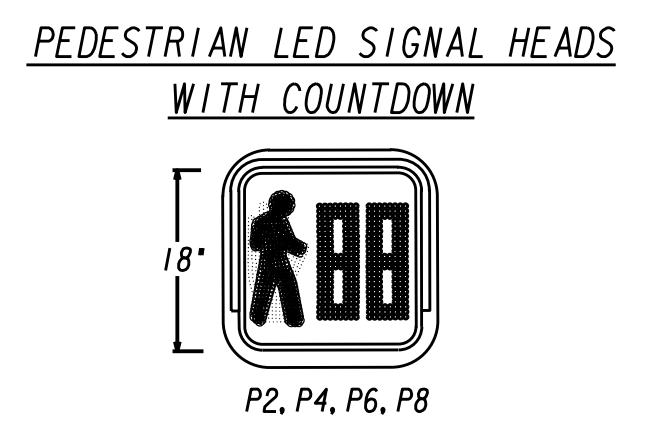
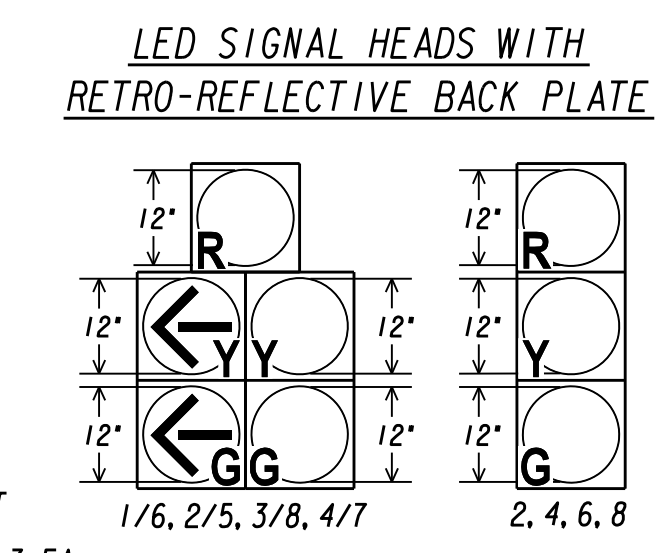
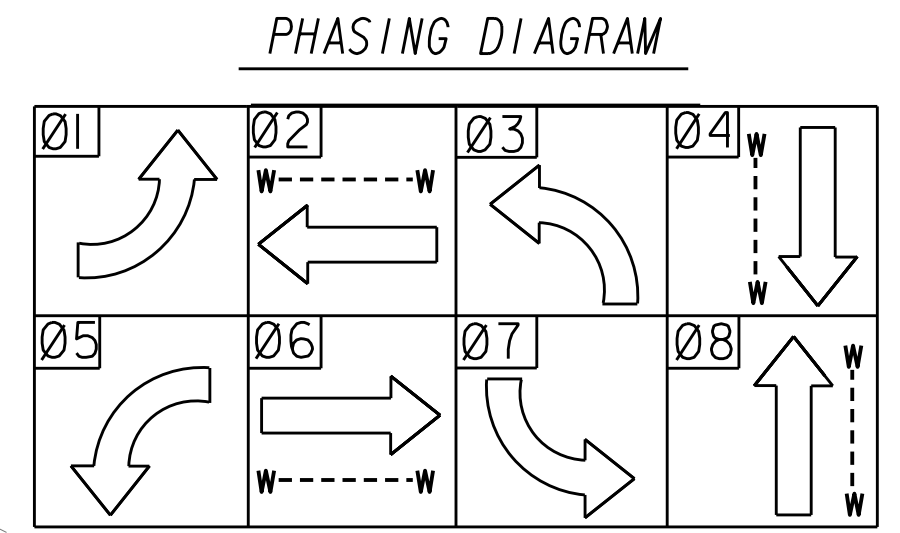


REVISION DATES

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SIGNAL PLANS
EXISTING CONDITIONS
RONALD REAGAN BLVD AT MAJORS RD

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0015 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |



SIGNAL LEGEND

| | | | |
|--|-----------------------|--|---|
| | PROPOSED SIGNAL HEAD | | PROPOSED 4-SECTION SIGNAL HEAD |
| | EXISTING SIGNAL HEAD | | PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD |
| | RELOCATED SIGNAL HEAD | | PEDESTRIAN SIGNAL HEAD |

DETECTION LEGEND

| | | | |
|--|---------------------------------|--|---------------------------------|
| | PROPOSED VIRTUAL DETECTION ZONE | | PROPOSED VIDEO DETECTION CAMERA |
| | PROPOSED INDUCTIVE LOOP | | PROPOSED MAGNETOMETER |
| | PROPOSED RADAR | | |

FORSYTH COUNTY
ENGINEERING DEPARTMENT

POND

SCALE IN FEET

REVISION DATES

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| 01/23/2020 | | |
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SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION NO. 5
RONALD REAGAN BLVD AT MAJORS RD

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| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0016 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |

LIST OF MATERIALS

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

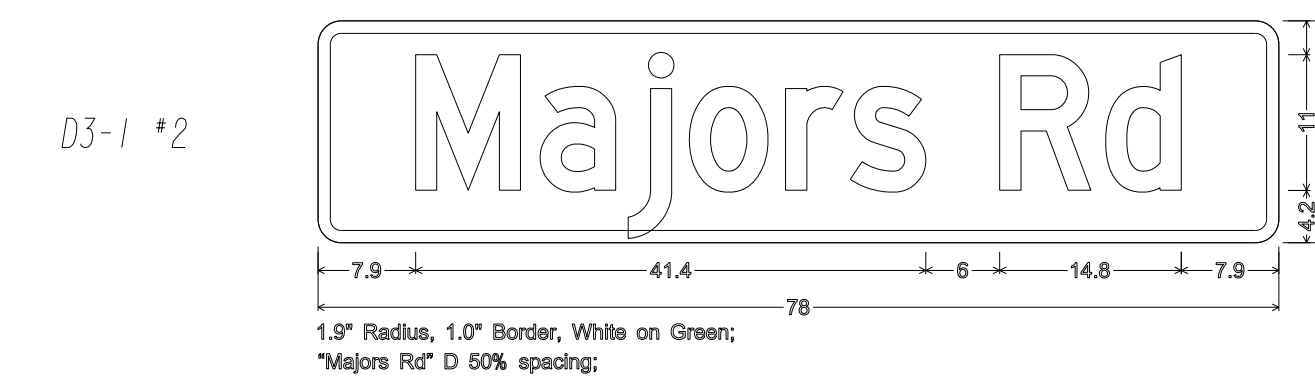
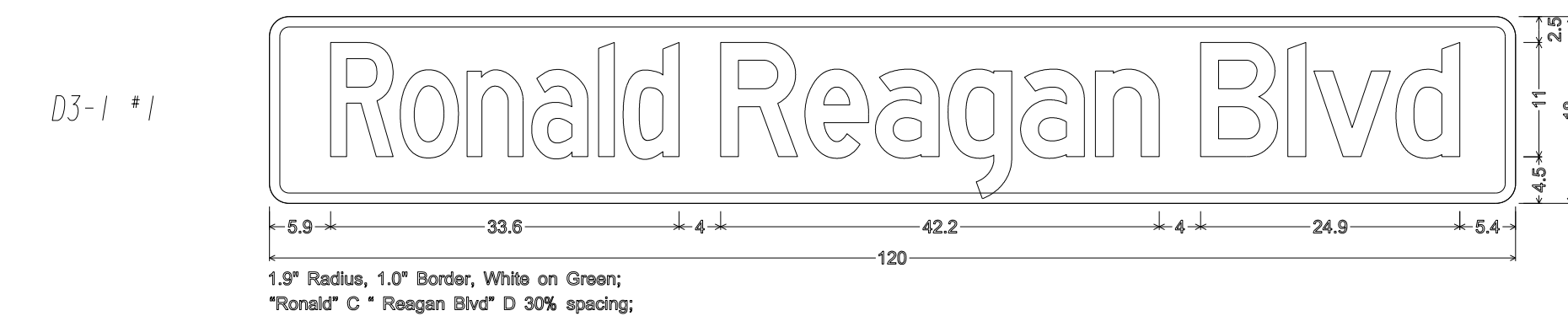
| MATERIALS | UNIT | QUANTITY |
|---|------|----------|
| LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT) | | |
| A. 3 PAIR 18 AWG | REEL | 2 |
| SIGNAL CABLE (14AWG) | | |
| A. 7 CONDUCTOR, PER 1000 FT | REEL | 2 |
| B. 10 CONDUCTOR, PER 1000 FT | REEL | 1 |
| LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT) | REEL | 4 |
| 3-SECTION, 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 4 |
| 5-SECTION, (CLUSTER) 12" SIGNAL HEAD LED-, YELLOW HOUSING W/BLACK FRONT, PLASTIC | EA | 4 |
| 1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBER & 12" SYMBOLS) | EA | 8 |
| PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS: 9"x15", R10-3E, (LEFT OR (R)IGHT, COUNTDOWN | | |
| 1. 9"x15", R10-3EL, COUNTDOWN | EA | 4 |
| 2. 9"x15", R10-3ER, COUNTDOWN | EA | 4 |
| BACKPLATE FOR ONE-WAY, 3 SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 4 |
| BACKPLATE FOR ONE-WAY, 5 SECTION, (CLUSTER) 12" SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP | EA | 4 |
| HARDWARE FOR MAST ARM MOUNTING | EA | 8 |
| HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY | EA | 4 |
| 10" PEDESTAL POLE & SQUARE BASE | EA | 4 |
| PULL BOX, PB-2 | EA | 7 |
| PULL BOX, PB-3 | EA | 3 |
| PULL BOX, PB-6 | EA | 1 |
| LOOP SAW CUT | LF | 1820 |
| CONDUIT, 1" | LF | 175 |
| CONDUIT, 2" | LF | 650 |
| R10-12, LEFT TURN YIELD ON GREEN SIGN | EA | 4 |
| MISC. MATL. TO COMPLETE INSTALLATION | LUMP | LUMP |

PAY ITEMS

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|---|----------|----------|
| 647-1000 | TRAFFIC SIGNAL INSTALLATION NO. 5 | LUMP SUM | LUMP SUM |
| 615-1100 | DIRECTIONAL BORE PIPE - 7 IN. | LF | 340 |
| 636-1041 | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9 | SF | 50 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 40' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 50' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 55' MAST ARM | EA | 1 |
| 639-3004 | STEEL STRAIN POLE, TP IV, W/ 65' MAST ARM | EA | 1 |
| 682-6233 | CONDUIT, NONMETAL, TP 3, 2 IN | LF | 1250 |

RONALD REAGAN BLVD AT MAJORS RD

D3-1 OVERHEAD STREET NAME SIGN DETAILS



332 CABINET INPUT ASSIGNMENT

| | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| SLOT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|

UPPER INPUT FILE

| | TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-------------|
| CHANNEL 1 | CARD | 2-CH | 2-CH | | | 2-CH | 2-CH | | | | | | DC 150 | DC 150 | DC 150 |
| | CI PIN | 56 | 39 | 63 | 47 | 58 | 41 | 65 | 49 | 60 | | 80 | 67 | 68 | 81 |
| | FUNCTION | L1 | L2A | | | L3 | L4A | | | | | | Ø2 PED | Ø6 PED | FLASH SENSE |
| | FIELD TERM | TB2 1,2 | TB2 5,6 | TB2 9,10 | TB4 1,2 | TB4 5,6 | TB4 9,10 | TB6 1,2 | TB6 5,6 | TB6 9,10 | | | TB8 4,6 | TB8 7,9 | N/C |

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | CI PIN | 56 | 43 | 76 | 47 | 58 | 45 | 78 | 49 | 62 | | 53 | 69 | 70 | 82 |
| | FUNCTION | | L2B | | | L4B | | | | | | | Ø4 PED | Ø8 PED | STOP TIME |
| | FIELD TERM | TB2 3,4 | TB2 7,8 | TB2 11,12 | TB4 3,4 | TB4 7,8 | TB4 11,12 | TB6 3,4 | TB6 7,8 | TB6 11,12 | | | TB8 5,6 | TB8 8,9 | N/C |

LOWER INPUT FILE

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|----------|---------|---------|----------|---------|---------|----------|-----|-----|---------|---------|-----------|
| CHANNEL 1 | TYPE | DET | DET | DET | DET | DET | DET | DET | DET | DET | TBA | TBA | DC | DC | DC |
| | CARD | 2-CH | 2-CH | | | 2-CH | 2-CH | | | | | | | | |
| | CI PIN | 55 | 40 | 64 | 48 | 57 | 42 | 66 | 50 | 59 | | 54 | 71 | 72 | 51 |
| | FUNCTION | L5 | L6A | | | L7 | L8A | | | | | | | | |
| | FIELD TERM | TB3 1,2 | TB3 5,6 | TB3 9,10 | TB5 1,2 | TB5 5,6 | TB5 9,10 | TB7 1,2 | TB7 5,6 | TB7 9,10 | | | TB9 4,6 | TB9 7,9 | TB9 10,12 |

| | | | | | | | | | | | | | | | |
|-----------|------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|--|----|---------|---------|-----------|
| CHANNEL 2 | CI PIN | 55 | 44 | 77 | 48 | 57 | 46 | 79 | 50 | 61 | | 75 | 73 | 74 | 52 |
| | FUNCTION | | L6B | | | | L8B | | | | | | | | |
| | FIELD TERM | TB3 3,4 | TB3 7,8 | TB3 11,12 | TB5 3,4 | TB5 7,8 | TB5 11,12 | TB7 3,4 | TB7 7,8 | TB7 11,12 | | | TB9 5,6 | TB9 8,9 | TB9 11,12 |

FORSYTH COUNTY
ENGINEERING DEPARTMENT



REVISION DATES

| | | |
|------------|--|--|
| 01/23/2020 | | |
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SIGNAL PLANS

RONALD REAGAN BLVD EXTENSION
SUMMARY OF QUANTITIES

| | | |
|--------------|-------|-------------|
| CHECKED: | DATE: | DRAWING No. |
| BACKCHECKED: | DATE: | 27-0017 |
| CORRECTED: | DATE: | |
| VERIFIED: | DATE: | |