
































COMMON DRAWING SYMBOLS

	EXISTING SIGNAL POLE		NEW DOWN GUY
	NEW SIGNAL POLE		NEW SIDEWALK GUY
	EXISTING METAL POLE		NEW MICROWAVE VEHICLE DETECTION
	NEW METAL POLE		EXISTING MICROWAVE VEHICLE DETECTION
	EXISTING METAL POLE WITH MAST ARM		NEW DYNAMIC MESSAGE SIGN
	NEW METAL POLE WITH MAST ARM		EXISTING DYNAMIC MESSAGE SIGN
SP	SIGNAL POLE		NEW FIBER OPTIC COMMUNICATIONS CABLE
	NEW JUNCTION BOX		NEW TWISTED PAIR COMMUNICATIONS CABLE
	EXISTING JUNCTION BOX		EXISTING COMMUNICATIONS CABLE
	NEW CCTV CAMERA		EXISTING COMMUNICATIONS CABLE TO BE REMOVED
	EXISTING CCTV CAMERA		NEW AERIAL GUY ASSEMBLY
	CABLE STORAGE RACK (SNOW SHOES)		NEW CONDUIT
	NEW SPLICE CABINET		EXISTING CONDUIT
	EXISTING SPLICE CABINET		NEW DIRECTIONAL DRILLED CONDUIT
	AERIAL SPLICE ENCLOSURE		NEW BORED AND JACKED CONDUIT
	EXISTING SIGNAL CABINET		
	MASTER CONTROLLER CABINET		

NOTE:

DRAWING SYMBOLS SHOULD BE AT THE SAME SCALE AS THE PLAN SHEET
 FOR INFORMATION ON SCALING LINE STYLES SEE "STANDARD SYMBOLOGY TABLES" SECTION 9.0

Drawing Format Items – Symbology

TRAFFIC MANAGEMENT SYSTEMS SECTION
 TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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STD. NO.
































3.0

SHEET 1 OF 1





- 1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL REA, PE - 38, (FIGURE 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 3 INSTALL REA, PE - 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL MMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH OR FLOW
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH HEAT SHRINK TUBING
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE

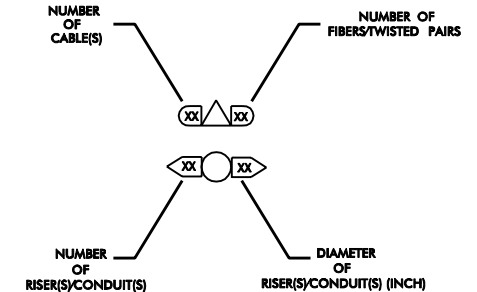
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 INSTALL POLE MOUNTED SPLICE CABINET
- 32 INSTALL BASE MOUNTED SPLICE CABINET
- 33 REMOVE EXISTING SPLICE CABINET
- 34 INSTALL CABINET FOUNDATION
- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48 REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 49 REMOVE EXISTING MESSENGER CABLE
- 50 INSTALL TELEPHONE SERVICE
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 20 FEET OF COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE

LEGEND

-  NEW FIBER OPTIC COMMUNICATIONS CABLE
-  NEW TWISTED PAIR COMMUNICATIONS CABLE
-  EXISTING COMMUNICATIONS CABLE
-  EXISTING COMMUNICATIONS CABLE TO BE REMOVED
-  NEW AERIAL GUY ASSEMBLY
-  NEW CONDUIT
-  EXISTING CONDUIT
-  NEW DIRECTIONAL DRILLED CONDUIT
-  NEW BORED AND JACKED CONDUIT
-  NEW JUNCTION BOX
-  EXISTING JUNCTION BOX
-  NEW WOOD POLE
-  EXISTING WOOD POLE
-  AERIAL SPLICE ENCLOSURE
-  NEW METAL POLE
-  EXISTING METAL POLE
-  NEW CCTV ASSEMBLY
-  EXISTING CCTV ASSEMBLY
-  NEW DYNAMIC MESSAGE SIGN
-  EXISTING DYNAMIC MESSAGE SIGN
-  NEW MICROWAVE VEHICLE DETECTION
-  EXISTING MICROWAVE VEHICLE DETECTION
-  NEW STANDARD GUY ASSEMBLY
-  NEW SIDEWALK GUY ASSEMBLY
-  NEW CABLE STORAGE RACKS (SNOW SHOES)
-  EXISTING CONTROLLER AND CABINET
-  EXISTING SPLICE CABINET
-  NEW SPLICE CABINET
-  SIGNAL POLE
-  SIGNAL INVENTORY NUMBER
-  CCTV IDENTIFICATION NUMBER

CONSTRUCTION NOTE SYMBOLOGY KEY

-  INDICATES NUMBER OF CABLES, LOOPS, ETC.
-  INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
-  INDICATES NUMBER OF RISER(S)/CONDUIT(S)
-  INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)



Drawing Format Items – Construction Notes

TRAFFIC MANAGEMENT SYSTEMS SECTION
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UNDERSTANDING CONSTRUCTION NOTES



INSTALL ONE 12-FIBER
SINGLE MODE FIBER OPTIC CABLE



INSTALL TWO 6-FIBER
MULTI-MODE FIBER OPTIC CABLES



INSTALL ONE 2" DIAMETER
POLYETHYLENE CONDUIT

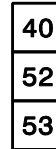


INSTALL ONE 1" DIAMETER
RIGID, GALVANIZED STEEL RISER
WITH WEATHERHEAD

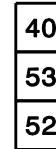
CONSTRUCTION NOTE CONVENTIONS

PLACE NOTES IN NUMERICAL ORDER

CORRECT

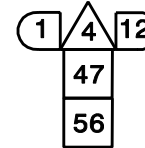


INCORRECT

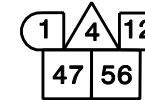


ORIENT VERTICALLY

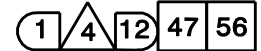
CORRECT



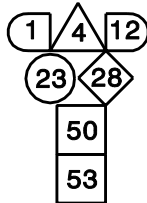
CORRECT



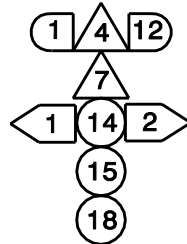
INCORRECT



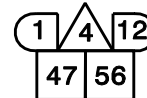
SOME COMMON CONSTRUCTION NOTES



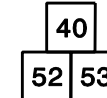
BASE MOUNTED CABINET
(MASTER LOCATION)



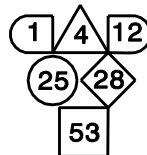
DIRECTIONAL DRILLED CONDUIT



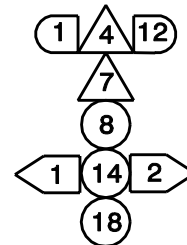
NEW FIBER OPTIC AND
MESSENGER CABLE



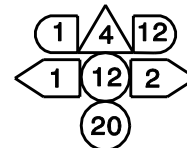
NEW OVERSIZED JUNCTION BOX



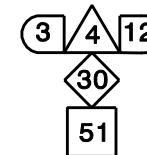
POLE MOUNTED CABINET



TRENCHED OR PLOWED CONDUIT



NEW RISER



AERIAL SPLICE ENCLOSURE

FOR MORE
INFORMATION
ON CONSTRUCTION
NOTES, SEE
SECTIONS 4-7
OF THIS MANUAL

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