

ELECTRICAL PLAN & SINGLE LINE SYMBOLS

SYMBOL	DESCRIPTION
	125V, 20A, DUPLEX GROUNDED RECEPTACLE GF1 = Ground Fault Interrupt AC = 6" Above Counter or Sink WP = Weatherproof TR = Technology Receptacle WN = Wireless Network Outlet (12" below the cig)
	QUAD RECEPTACLE
	250V, SINGLE GROUNDED RECEPTACLE Indicates Ampere Rating
	DUPLEX DATA PROCESSING OUTLET
	TELEPHONE OUTLET W = Wall Mounted Height 48"
	COMBINATION DATA/TELEPHONE OUTLET
	RECESSED FLOOR BOX (Contents May Vary, See Plan for Details)
	CABLE TELEVISION OUTLET
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CONTROL PANEL (See Plan for Details)
	ELECTRICAL PANELBOARD (See Plan for Details and Mounting)
	DOOR HOLDER
	MOTOR STARTER
	UNFUSED DISCONNECT SWITCH FU = Fused No. of Poles Ampere Rating
	MANUAL MOTOR STARTER
	PUSHBUTTON
	WALL MTD MOTION DETECTOR
	CLG MTD MOTION DETECTOR
	SECURITY SYSTEM CCTV CAMERA
	SECURITY SYSTEM CARD READER
	SECURITY SYSTEM KEYPAD
	FIRE ALARM AUDIO/VISUAL INDICATOR Indicates Visual Only, No Horn Candelo Rating
	FIRE ALARM PULL STATION
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR Indicates Duct Mounted
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH

SYMBOL	DESCRIPTION
	RECESSED/SURFACE MOUNTED 1X4 LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED 2X4 LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED 2X2 LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED CIRCULAR LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	RECESSED/SURFACE MOUNTED ACCENT LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	WALL MOUNTED LIGHTING FIXTURE Fixture Designation Circuit Designation Switching Control Designation (See Lighting Fixture Schedule for Details)
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE Fixture Designation Circuit Designation
	WALL MOUNTED EXIT SIGN Fixture Designation Circuit Designation Provide Directional Arrows as Indicated on Plans
	CEILING MOUNTED EXIT SIGN Fixture Designation Circuit Designation Provide Directional Arrows as Indicated on Plans
	LIGHTING/DEVICE SWITCH 3 = Three-Way Type 4 = Four-Way Type o = Override Switch Switching Control Designation (See Plans for Details)
	LIGHTING DIMMER 3 = Three-Way Type 4 = Four-Way Type Switching Control Designation (See Plans for Details)

SYMBOL	DESCRIPTION
	Ampere Frame Rating
	CIRCUIT BREAKER 200 AF 200/3 AT Ampere Trip Rating
	ELECTRICAL CONNECTION
	GROUND CONNECTION
	EQUIPMENT ENCLOSURE
	TRANSFORMER
	DISCONNECT SWITCH FU: 60A 200/2 Fuse Rating No. of Poles Ampere Rating
	UTILITY CO. SERVICE METER
	SHUNT TRIP
	ENCLOSED CIRCUIT BREAKER 800 AF 700/3 AT
	MOTOR 20 HP

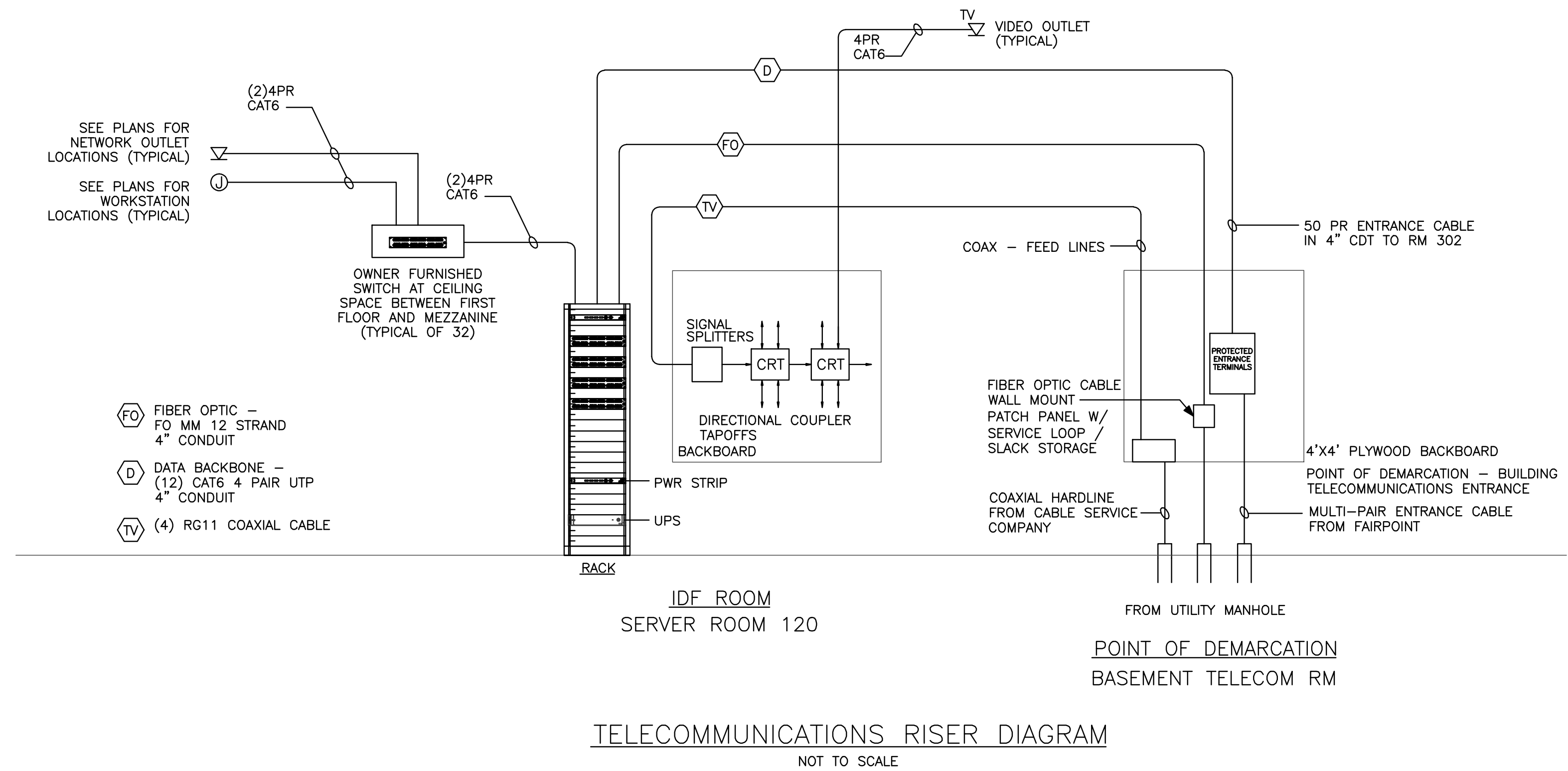
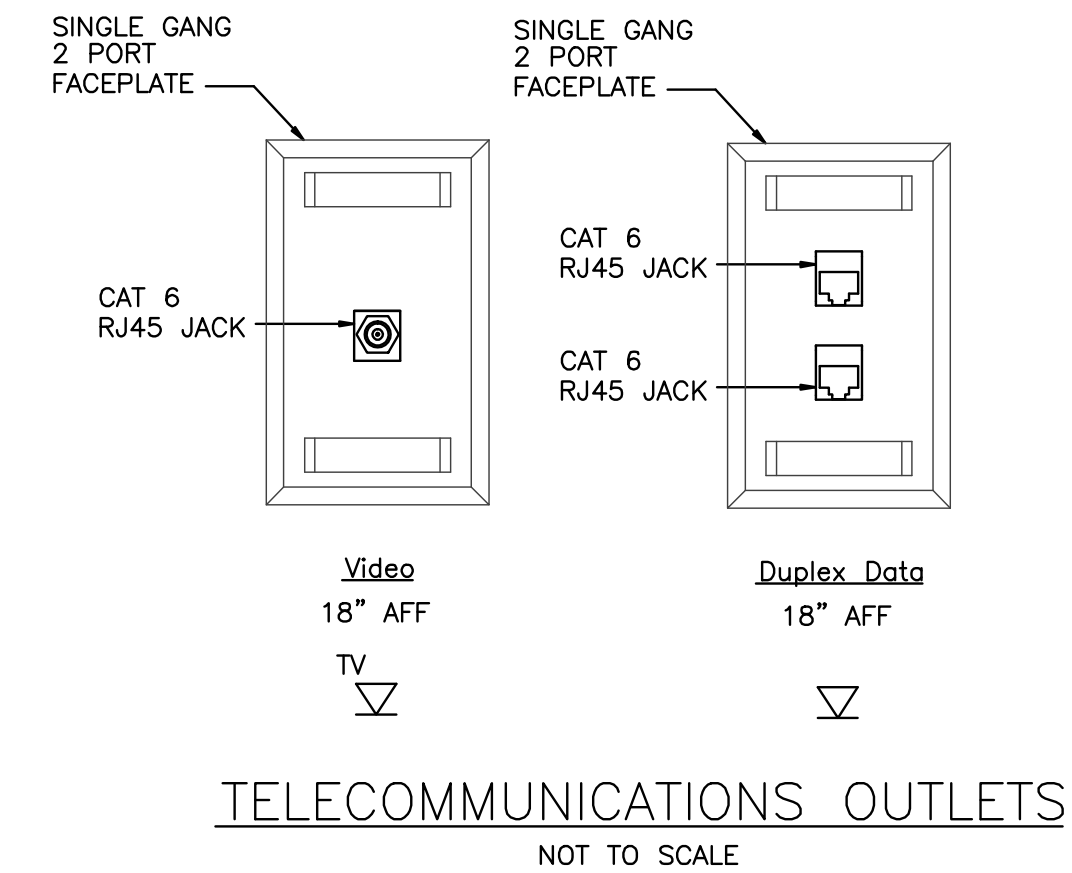
* NOTE NOT ALL SYMBOLS USED *

TELECOMMUNICATIONS RISER DIAGRAM NOTES:

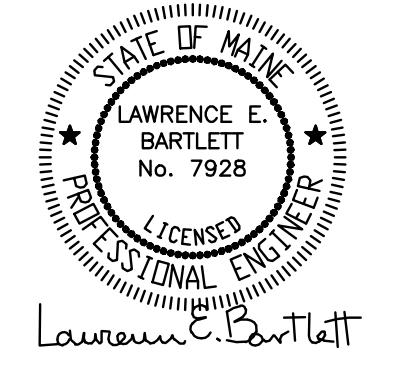
- CONTRACTOR SHALL PROVIDE A COMPLETE CAT6 DATA NETWORKING AND TELEPHONE INFRASTRUCTURE. THIS SHALL INCLUDE JACKS, UTP CABLES, EIA/TIA 19" RACKS, AND CAT6 PATCH PANELS, POWER STRIPS, AND MISC. HARDWARE.
- NOT USED.
- PROVIDE RACKS WITH BOTH VERTICAL AND HORIZONTAL CABLE MANAGERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING CABLE LOADING REQUIREMENTS (FOR SPRINKLERED AND NON-SPRINKLERED AREAS) FOR ABOVE CEILING LOCATIONS AS REQUIRED BY THE STATE FIRE MARSHALL'S OFFICE FOR ABOVE CEILING APPLICATIONS.
- PRIOR TO INSTALLING ANY RACKS, PATCH PANELS AND/OR ANY CABLE INSTALLATIONS PROVIDE RACK LAYOUT AND INFRASTRUCTURE LAYOUT DIAGRAMS TO ENGINEER FOR REVIEW FOR SERVER ROOM 120. CONTRACTOR IS REQUIRED TO PROVIDE DIAGRAMS AND SKETCHES AND OBTAIN WRITTEN APPROVAL FOR THE LAYOUT OF ALL RACKS, CABLE TRAY, MAJOR CONDUIT RUNS, AND PATHWAYS.

TELECOMMUNICATIONS RISER DIAGRAM NOTES CONTINUED:

- REFER TO PLANS, FACEPLATE CONFIGURATIONS, AND SPECIFICATION TO DETERMINE TOTAL CABLE COUNTS AND ROUTING.
- THIS DIAGRAM REPRESENTS BASIC RACK LAYOUT AND BACKBONE INFRASTRUCTURE CABLING. REFER TO FLOOR PLANS AND SPECIFICATIONS FOR COMPLETE SCOPE OF NETWORK, VIDEO, VOICE, INFRASTRUCTURE DROPS, DEVICES AND EQUIPMENT REQUIRED.
- PROVIDE TELECOMMUNICATIONS GROUNDING IN EACH TELECOMMUNICATIONS ROOM ON THE PROJECT (PER THE NATIONAL ELECTRICAL CODE)
- CONTRACTOR SHALL CONFIRM ROUTING OF ALL DATA NETWORK CIRCUITS SUCH THAT THEY DO NOT EXCEED LENGTH OF 300' MAX PER CAT 6 DROP.
- PROVIDE DIRECTIONAL COUPLER TAPOFFS AS REQUIRED FOR PROPER SIGNAL DISTRIBUTION OF COAX HOMERUNS AT BACKBOARDS.



TELECOMMUNICATIONS RISER DIAGRAM NOT TO SCALE



**POWERPAY
OFFICE FIT
UP**

**Winton Scott
Architects
5 Milk Street
Portland, ME 04101**

**Wright Ryan
Construction, Inc.
10 Danforth Street
Portland, ME 04101**

**Becker Structural
Engineers, Inc.
75 York Street
Portland, Maine 04101**

**Mechanical Systems
Engineers
10 Royal River Center
Yarmouth, Maine 04096**

**Bartlett Design
942 Washington St.
Bath, Maine 04530**

**Fore Solutions
386 Fore Street
Portland, Maine 04101**

**TELECOM
WIRING DIAGRAMS
& DETAILS**

E3.2