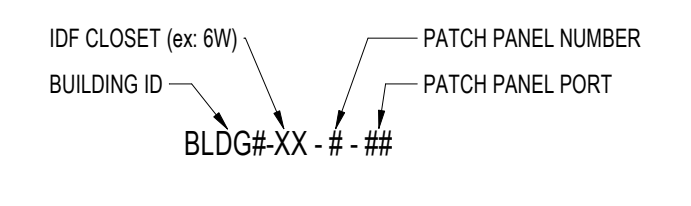


COMMUNICATIONS SYMBOL LIST

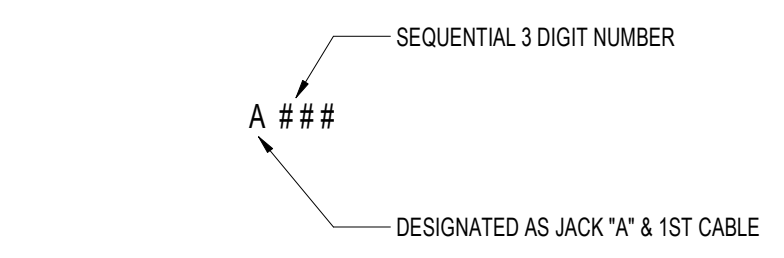
VOICE/DATA SYMBOLS

	VOICE OUTLET - FLUSH WALL MOUNT
	DATA OUTLET - FLUSH WALL MOUNT
	VOICE/DATA OUTLET - FLUSH WALL MOUNT
	VOICE OUTLET - FURNITURE MOUNT
	DATA OUTLET - FURNITURE MOUNT
	VOICE/DATA OUTLET - FURNITURE MOUNT
	DATA OUTLET FOR CLINICAL ENGINEERING - FLUSH WALL MOUNT
	DATA OUTLET - FLUSH FLOOR MOUNT
	VOICE/DATA OUTLET - FLUSH FLOOR MOUNT
	VOICE OUTLET - FLOOR BOX MOUNT
	DATA OUTLET - FLOOR BOX MOUNT
	VOICE/DATA OUTLET - FLOOR BOX MOUNT
	VOICE OUTLET - FLUSH CEILING MOUNT
	DATA OUTLET - FLUSH CEILING MOUNT
	VOICE/DATA OUTLET - FLUSH CEILING MOUNT
	ANALOG OUTLET - FLUSH WALL MOUNT
	WALLPHONE CAT 6 VOICE ONLY
	WALLPHONE CAT 6 DATA ONLY
	WIRELESS ACCESS POINT (AP) & SENSOR (S) OUTLET
	DAS ANTENNA(S) OUTLET
	CATV OUTLET - TERMINATED ON F-TYPE CONNECTOR
	CEILING SPEAKER
	SLEEVE
	CORE DRILL
	LADDER RACKING SYSTEM
	CABLE TRAY / RACEWAY SYSTEM
	J-HOOK CABLE ROUTE
	TELEPHONE TERMINAL CABINET - SURFACE MOUNT
	TELEPHONE TERMINAL CABINET - FLUSH MOUNT
	EQUIPMENT RACK - FLOOR MOUNT
	EQUIPMENT RACK - WALL MOUNT

VOICE/DATA CABLE DESIGNATIONS



VOICE/DATA FACEPLATE DESIGNATIONS



MMC BUILDING DESIGNATION

(SEE OVERALL KEY PLAN)
CONGRESS ST = BLDG #2
VISITOR GARAGE = BLDG #3
EAST TOWER = BLDG #4

HEALTHCARE SYMBOLS

	NURSE CALL MASTER STATION
	MASTER STATION - RECEPTACLE ONLY FOR FUTURE CONNECTION
	NURSE CALL PATIENT STATION (1 BED)
	NURSE CALL PATIENT STATION (2 BED)
	NURSE CALL EMERGENCY STATION
	NURSE CALL LAUNDRY STATION
	NURSE CALL DUTY STATION
	NURSE CALL STAFF STATION
	SS = STANDARD STAFF STATION
	ST = STAFF TERMINAL
	NURSE CALL CODE BLUE STATION
	NURSE CALL EQUIPMENT CABINET - SURFACE MOUNTED
	F = FLUSH WALL MOUNTED
	NURSE CALL CORRIDOR LAMP
	NURSE CALL ZONE LAMP
	INTERCOM CENTRAL EQUIPMENT SURFACE MOUNTED
	INTERCOM STATION
	TWO PORT MEDICAL ALARM JACK
	FEATURE BED SIDE COM RECEPTACLE
	DUAL 1/2" FAN DEVICE
	DUAL PUSHBUTTON
	PHYSIOLOGICAL MONITORING - COMBINATION POWER/SIGNAL 2 GANG SWITCH/WALLHOOK WITH DUPLEX RECEPTACLE AND 3/4" (1.5") AT NURSE'S STATION
	LINE ISOLATION MONITOR - SEPARATELY MOUNTED
	PATIENT MONITOR OUTLET
	REMOTE INDICATOR FOR LINE ISOLATION MONITOR
	ROOM GROUND POINT
	REFERENCE GROUND POINT
	REMOTE GROUND JACK
	ISOLATED X-RAY OUTLET AND ALARM INDICATOR
	ISOLATED POWER CENTER
	SURGICAL COLUMN

COMMUNICATIONS ABBREVIATIONS

+	SPECIAL MOUNTING HEIGHT, COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS	KWH	KILOWATT HOUR
*P	SINGLE POLE	LCP	LOCAL CONTROL PANEL
2P	TWO POLE	LM	LINE ISOLATION MONITOR
3P	THREE POLE	LTS	LIGHTING
A	AMPERE	MAP	MECHANICAL ALARM PANEL
AC	ABOVE COUNTER	MAX	MAXIMUM
ACB	AIR CIRCUIT BREAKER	MCA	MINIMUM CIRCUIT AMPERES
APF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
APC	AMPERE INTERRUPTING CAPACITY	MCC	MAIN CONTROL CENTER
AL	ALUMINUM	MCP	MAIN DISTRIBUTION PANEL
ALM	ALARM	MECH	MECHANICAL
AMB	AMBIER	MER	MECHANICAL EQUIPMENT ROOM
AGST	AJUSTAT	MFS	MAIN FUSED SWITCH
AM	ABOVE BASED FLOOR	MH	MANHOLE
ASF	ASYMMETRICAL	MIC	MICROPHONE
ATM	AUTOMATIC TRANSFER SWITCH	MN	MINIMUM
ATS	AUTOMATIC	MLO	MAIN LUG ONLY
AUTO	AUDIO VISUAL	MOPR/MOPC	MAXIMUM OVERCURRENT PROTECTION
AV	AMERICAN WIRE GAUGE	MTD	MOUNTED
AWG	AUDIO VISUAL	MTG	MOUNTING
BG	BREAK GLASS SWITCH	MTR	MANUAL TRANSFER SWITCH
BL	BASIC IMPULSE LEVEL	MUSFS	MAIN UNFUSED SWITCH
BLDG	BUILDING	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAB	CABINET	NC	NOT IN CONTRACT
CAT	CATALOG	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NP	NETWORK PROTECTOR
CC	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CD	CIRCUIT	OC	ON CENTER
CL	CENTER LINE	OCB	OIL CIRCUIT BREAKER
CNG	CEILING	OD	OUTSIDE DIAMETER
CLOS	CLOSET	P	POLE
CNTL	CONTROL	PA	PUBLIC ADDRESS
CO	CONDUIT ONLY	PAN	PANEL
COMM	COMMUNICATION	PB	PULL BOX
CONN	CONNECTED	PBS	PUSH BUTTON SWITCH
CONT	CONTINUATION	PIC	PREF. HEATING CABLE
CONT	CURRENT TRANSFORMER	PNL	PANEL
CP	COPPER	PR	PRINTER
CU	CABINET UNIT HEATER	PS	PRESSURE SWITCH
DB	DECIBEL	PT	POTENTIAL TRANSFORMER
DE	DOUBLE ENDED SUBSTITUTION	PWR	POWER
DEG	DEGREE	PH	PHASE
DF	DRINKING FOUNTAIN	(RE)	RELOCATED EXISTING
DA	DIAMETER	(RFD)	EXISTING TO BE REMOVED AND RETURN TO OWNER
DISC	DISCONNECT	RCS	REMOTE CONTROL SWITCH
DIV	DIVISION	RCOP	REMOTE DATA COLLECTION PANEL
DN	DOWN	RECP	RECEPTACLE
DP	DISTRIBUTION PANEL BOARD	RFL	RAISED FLOOR
DT	DUST TIGHT	RG	ROOM GROUND POINT
DWG	DEGREE CELSIUS	RM	ROOM
DEG	DEGREE FAHRENHEIT	RO	RACEWAY ONLY
°C	DEGREE FAHRENHEIT	RP	REFERENCE GROUND POINT
°F	DEGREE FAHRENHEIT	SAP	SPRINKLER ALARM PANEL
(E)	EXISTING TO REMAIN	SBST	SUBSTATION
(ER)	EXISTING TO BE REMOVED	SCH	SCHEDULE
(ERR)	EXISTING TO BE REMOVED & RELOCATED	SD	SMOKE DETECTOR
EA	EACH	SDP	SMOKE DETECTION PANEL
EQ	ELECTRICAL CONTRACTOR	SE	SINGLE ENDED SUBSTITUTION
ELEV	ELEVATOR	SECT	SECTION
EMER, EM	EMERGENCY	SIG	SIGNAL
EQUIP	EQUIPMENT	SN	SOLID NEUTRAL
ERIC	ELECTRIC REFRIG. COIL	SP	SINGLE POLE
EW	ELECTRIC WATER COOLER	SPEC	SPECIFICATION
EXIST, EX	EXISTING	SPKR	SPEAKER
EXT	EXTERIOR	SV	SOLENOID VALVE
FA	FIRE ALARM	SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	SWRB	SWITCHBOARD
FAP	FIRE ALARM ANNUNCIATOR PANEL	SWRG	SWITCHGEAR
FBO	FURNISHED BY OTHER DIVISION OF WORK	SYM	SYMMETRICAL SYSTEMS
FCU	FAN COIL UNIT	TB	TROUBLE BELL
FDR	FEDER	TBD	TO BE DETERMINED
FDS	FUSED DISCONNECT SWITCH	TEL	TELEPHONE
FXT	FUTURE	TEMP	TEMPERATURE
FL	FLOOR	TRM	TRIM
FLA	FULL LOAD AMPERES	TLBD	TERMINAL BOARD
FLEX	FLEXIBLE	TP	TAMPER PROOF
FLUR	FLOORSCENT	TRNSF.	TRANSFORMER
FM	FLOOR MACHINE	JXMR	JUNCTION BOX
FRZ	FREEZER	TS	TAMPER SWITCH
FSP	FAN SHUTDOWN PANEL	TV	TELEVISION
FT	FEET OR FOOT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
G	GROUND	TYP	TYPICAL
GEN	GENERATOR	UFD	UNDERFLOOR DUCT
GF	GROUND FAULT INTERRUPTER	UH	UNIT HEATER
HC	HANG CEILING	UNF	UNFUSED
HH	HAND HOLE	UCN	UNLESS OTHERWISE NOTED
HID	HIGH INTENSITY DISCHARGE	V	VOLT OR VOLTAGE
HN	HALF NEUTRAL	VA	VOLT AMPERE
HP	HORSE POWER	VFD	VARIABLE FREQUENCY DRIVE
HV	HIGH VOLTAGE	VM	VOLTMETER
HC	HERTZ	VP	VAPORPROOF
I	INTERRUPTING CAPACITY	W	WATT
ID	INSIDE DIAMETER	WFS	WATER FLOW SWITCH
INCAND	INCANDESCENT	WHM	WATT HOUR METER
INST	INSTRUMENT	WP	WEATHERPROOF
IPC	ISOLATED POWER CENTER	WT	WATERTIGHT
IPX	ISOLATED POWER CENTER X-RAY	X	EXPLOSION PROOF
J	JUNCTION BOX		
KCMIL	THOUSAND CIRCULAR MILS		
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		

COMMUNICATION GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), UL, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL COMMUNICATIONS DRAWINGS.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGNOSTIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT NEW WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND SPACE CONDITIONS.
- VERIFY LOCATIONS OF OUTLETS IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES.
- HOMERUN ALL VOICE, DATA AND VIDEO OUTLET CABLES VIA CONDUIT STUB-UPS, DRAYWALLS AND ACCESSIBLE CEILINGS DIRECTLY TO THE DF ROOMS AS INDICATED ON THE DRAWINGS.
- INSTALL NEW WORK AND CONNECT TO EXISTING WORK, WHEN APPLICABLE, WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTTINGS ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
- FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
- ANY DAMAGE TO PARTITIONS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACTOR SHALL BE MADE GOOD AT NO ADDITIONAL CHARGE TO THE OWNER.
- ALL CUTTING AND PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- UPON COMPLETION OF THE WORK, THREE MARKED-UP SETS OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND TWO SETS TO THE BUILDING MANAGER.
- COMMUNICATIONS CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK AND BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL SHALL BE CONSIDERED AS EVIDENCE THAT AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED CEILINGS, HANG CEILINGS, PLASTER PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
- FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
- ANY BLOCK WALLS WITHOUT EXISTING PENETRATION MUST BE COREDRILLED BY CONTRACTOR BASED ON FIELD COORDINATION.
- ALL WORK SUBJECT TO FULL FIELD COORDINATION BY CONTRACTOR.
- ALL LATERAL CABLEING TO BE RUN TO WORK STATIONS VIA METAL SURFACE RACEWAY.
- COORDINATE INSTALLATION OF CONDUITS, CABLE TRAYS AND J-HOOKS WITH ALL OTHER COMPONENTS AND/OR TRADES WITHIN THE CEILING SPACE.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE ROUTING OF ALL STUB-UPS AND/OR RACEWAYS TO EACH TELECOM OUTLET BOX. STUB-UPS AND RACEWAYS SHALL BE RUN TO THE NEAREST ACCESSIBLE CEILING SPACE.
- STANDARD OUTLET MOUNTING HEIGHT SHALL BE THE SAME AS ELECTRICAL HEIGHT, UNLESS OTHERWISE NOTED. EXACT LOCATION OF OUTLETS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- PROVIDE FIRESTOPPING FOR ALL SLEEVE AND CONDUIT PENETRATIONS THROUGH RATED PARTITIONS ON FLOORS IN ACCORDANCE WITH THE SPECIFICATIONS.
- LABEL ALL RACKS, FRAMES, CABINETS, BLOCKS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH 6A117A.006.
- OUTLET IDENTIFICATION NUMBERING SHALL BE AS DIRECTED BY OWNER'S MISC. IDENTIFICATION. INSTALLATION SHALL COMPLY WITH SPECIFICATIONS. EACH CABLEING SHALL BE TAGGED AT ALL TERMINATION POINTS.

GROUNDING & BONDING NOTES

- GROUNDING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES, AND SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
- ALL GROUND WIRES AND BONDING JUMPERS SHALL BE GREEN INSULATED, COPPER. ALL GROUND WIRES SHALL BE WITHOUT JOINTS AND SPLICES OVER THE ENTIRE LENGTH.
- WHERE IT IS NECESSARY TO PLACE BONDING CONDUCTORS OF FERROUS METAL CONDUIT THAT EXCEEDS 3' IN LENGTH, THE CONDUCTORS SHALL BE BONDED TO EACH END OF THE CONDUIT. OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER PRIOR TO UTILIZING FERROUS METAL CONDUITS FOR GROUNDING CONDUCTORS.
- INSTALL BONDING AND GROUNDING CONDUCTORS IN DIRECT, STRAIGHT PATHS WITH NO "SLACK" COPPER LOOPS OR EXTRA LENGTHS. BONDS SHALL BE KEPT TO A MINIMUM, AND SHALL HAVE A RADIUS OF 4" MINIMUM.
- PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMB AND THE NEAREST BUILDING STEEL COLUMN. IF APPLICABLE, THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TMB WITH A TWO-HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
- PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMB AND THE MAIN ELECTRICAL PANEL. ALTERNATING CURRENT EQUIPMENT GROUND THAT IS SERVING THE BUILDING. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TMB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO-HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.
- PROVIDE AN INSULATED, UNINTERRUPTED TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR BETWEEN THE TMB AND ALL THE TBS INDICATED ON THE DRAWINGS. MECHANICALLY BOND THE TBB TO THE TMB WITH A TWO-HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE TBB. BOND EACH TSB TO THE TBB WITH AN INSULATED, STRANDED, UNINTERRUPTED BONDING CONDUCTOR. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TSB AND AT THE TSB, UTILIZE A TWO-HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE BONDING CONDUCTOR. AT THE TSB, UTILIZE A HYDRAULICALLY CRIMPED BONDING LUG. REMOVE ONLY AS MUCH INSULATION FROM THE TBS AS IS NECESSARY AND PRACTICAL TO COMPLETE THE BOND.
- PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO THE NEAREST ACCESSIBLE STEEL BUILDING COLUMN. IF APPLICABLE, THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TGB WITH A TWO-HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
- PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO GROUND BAR IN THE ELECTRICAL DISTRIBUTION PANEL. SERVING THE TELECOMMUNICATIONS LOADS IN THAT ROOM. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TGB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO-HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.

COMMUNICATION DRAWING...

DRAWING NO.	DRAWING TITLE
T00-01	COMMUNICATIONS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
T00-21	COMMUNICATIONS DETAILS
T00-22	COMMUNICATIONS DETAILS
T00-23	COMMUNICATIONS DETAILS
T11-61	COMMUNICATION LEVEL 6 FLOOR PLAN - SECTOR 1
T11-62	COMMUNICATION LEVEL 6 FLOOR PLAN - SECTOR 2
T11-71	COMMUNICATION LEVEL 7 FLOOR PLAN - SECTOR 1
T11-72	COMMUNICATION LEVEL 7 FLOOR PLAN - SECTOR 2
T11-81	COMMUNICATION ROOF PLAN - SECTOR 1
T11-82	COMMUNICATION ROOF PLAN - SECTOR 2
T11-91	COMMUNICATION PENTHOUSE PLAN - SECTOR 1
T11-92	COMMUNICATION PENTHOUSE PLAN - SECTOR 2
T14-01	COMMUNICATION PART PLAN AND ELEVATION
T20-01	COMMUNICATIONS RISER DIAGRAM
T30-01	COMMUNICATIONS MMC EAST TOWER SITE PLAN - GROUND FLOOR

COMMUNICATIONS PATHWAY NOTES

- CONDUITS AND SLEEVES ARE SHOWN DIAGNOSTICALLY AS COMMUNICATION PATHWAY REQUIREMENTS. EXACT ROUTING, BONDS, PULL BOX LOCATIONS, ETC. ARE SUBJECT TO FIELD CONDITIONS AND SHALL BE COORDINATED WITH ELECTRICAL ENGINEER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- COMMUNICATIONS CONDUIT RUNS SHALL BE INSTALLED WITH:
 - NO BEND IN EXCESS OF 90 DEGREES.
 - NO AGGREGATE OF BENDS GREATER THAN 180 DEGREES BETWEEN PULL BOXES OR PULL POINTS.
 - NO CONTINUOUS SECTION IN EXCESS OF 100'.
 - NO BENDS OCCURRING WITHIN PULL BOXES.
- COMMUNICATIONS CONDUIT BENDS SHALL BE INSTALLED WITH:
 - A BEND RADIUS OF 5 TIMES THE CONDUIT INSIDE DIAMETER FOR CONDUITS 2 TRADE SIZE OR SMALLER.
 - A BEND RADIUS OF 10 TIMES THE CONDUIT'S INNER DIAMETER FOR CONDUITS GREATER THAN 2 TRADE SIZE.
- COMMUNICATIONS CONDUIT SYSTEM SHALL BE PROPERLY BONDED IN ACCORDANCE WITH ALL NATIONAL OR LOCAL REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FIELD-COORDINATED TELECOM PATHWAYS TO ELECTRICAL ENGINEER AND TELECOM ENGINEER FOR REVIEW AND APPROVAL.

DRAWING PLAN NOTES

- DRAWINGS ARE SCHEMATIC AND INDICATE GENERAL ARRANGEMENT OF TELECOM SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT NEW WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND SPACE CONDITIONS AS NEEDED.
- VERIFY EXACT LOCATIONS OF TELECOM OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING.
- COORDINATE WITH ELECTRICIAN FOR ALL NEW TELECOM OUTLETS / J-BOX LOCATIONS. MINIMUM 1 1/4" STUB-UP CONDUITS WITH DRAG LINES IS REQUIRED.
- TERMINATE ALL TELECOM CABLE PULLS IN TELECOM "ID" ROOM.
- FURNISH & INSTALL 1/2" CONDUITS WITH END TO END BUSHING. PROVIDE DRAG LINE FOR BOTH.
- DAS ANTENNA AND CABLEING BY DAS CONTRACTOR.



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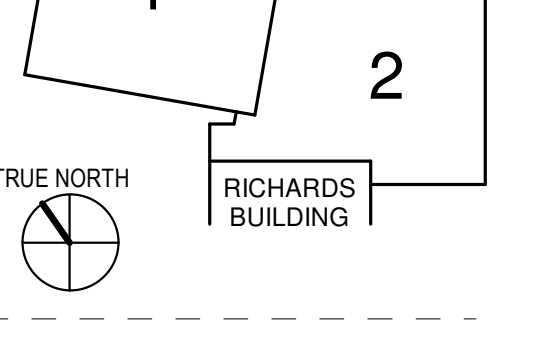
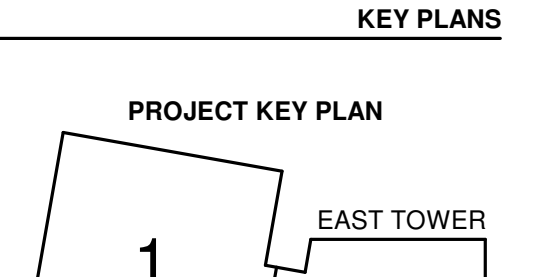
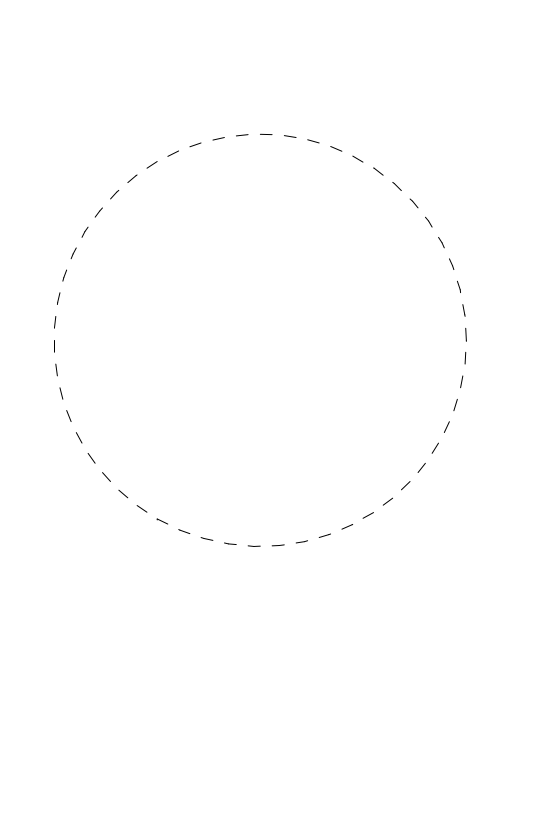
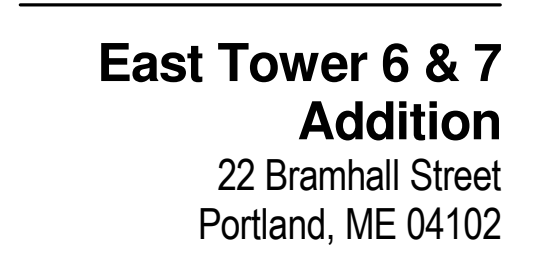
22 Bramhall Street
Portland, ME 04102

CONSULTANTS
CIVIL/LANDSCAPE ARCHITECT
Sebago Technics
75 John Roberts Road, Suite 106
Walham, MA 02456
STRUCTURAL/ENR: BUILDING ENVELOPE CONSULTANT
Stinson Gumpertz & Hager Inc.
41 Seaver Street, Building 1, Suite 470
Walham, MA 02453

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AKF Group LLC
99 Bedford Street, 2nd Floor, Boston, MA 02111
CONSTRUCTION MANAGER
Turner Construction
2 Seaport Lane, Suite 200, Boston, MA 02210

ELEVATOR CONSULTANT
VDA (Van Deusen & Associates)
101 Summer Street, 4th Floor, Boston, MA 02110
COST ESTIMATOR
D. G. Jones International
3 Baldwin Green Common, Suite 202, Woburn, MA 01801

PROJECT TITLE
East Tower 6 & 7 Addition
22 Bramhall Street
Portland, ME 04102



KEY PLAN
PROJECT KEY PLAN
1 - EAST TOWER
2 - RICHARDS BUILDING
TRUE NORTH

OVERALL KEY PLAN
1 - GILMAN GARAGE
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING
TRUE NORTH

CONSTRUCTION DOCUMENTS
JANUARY 28, 2018

NO.	ISSUE	DATE
Job Number	B150312-000	
Drawn	EL	
Checked	BN	
Approved	BN	

TITLE
COMMUNICATIONS
GENERAL NOTES,
SYMBOLS AND
ABBREVIATIONS
SHEET NUMBER