ELECTRICAL SYMBOLS (FOR INFORMATION ONLY)					
#	QUAD ELECTRICAL OUTLET	L5-20R	20A/120V TWIST LOCK RECEPTACLE		
Φ	DUPLEX ELECTRICAL OUTLET	L6-30R	30A/208V TWIST LOCK RECEPTACLE		
\$11111\$	CONDUIT BANK				
<i>[11111]</i>	CONDUIT BANK TERMINATED				
	SLEEVE THROUGH WALL WITH REAMED AND BUSHED ENDS	JUNCTION E	JITS, SLEEVES, PULL BOXES, AND BOXES SHALL BE PROVIDED BY RICAL CONTRACTOR.		
▩	TELECOMMUNICATIONS PULL BOX OR JUNCTION BOX				

TAG SYN	MBOLS
STANDARD DETAIL No. DESIGNATION	DETAIL No. TC-201 DRAWING No.
STANDARD REVISION TAG	REVISION No.
STANDARD REVISION BUBBLE	
INDEXING SYMBOL	HEXAGONAL SYMBOLS CONTAINING ARABIC NUMERALS ONLY INDICATE REFERENCE TO AN EXPLANATION OF TELECOM WORK REQUIREMENTS.
ELEVATION TAG	DETAIL No. TC-XXX DRAWING No.
TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG	XX-XXX UNIQUE ID BUILDING ID
	STANDARD DETAIL No. DESIGNATION STANDARD REVISION TAG STANDARD REVISION BUBBLE INDEXING SYMBOL ELEVATION TAG TELECOMMUNICATIONS OUTLET

THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS TO SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO SUBMISSION OF A BID PROPOSAL. SUBMISSION OF A BID WILL BE JUDGED AS EVIDENCE THAT SUCH SITE EXAMINATION HAS BEEN MADE. CLAIMS FOR EXTRA COST FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE

GENERAL NOTES FOR NEW CONSTRUCTION

WILL NOT BE RECOGNIZED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES THAT ARISE DURING THE SITE VISIT AND SHALL REQUEST CLARIFICATION, IF NECESSARY.

ANY WORK REQUIRED DUE TO DIFFICULTIES RESULTING FROM EXISTING CONDITIONS SHALL

. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID, EXCEPT WHERE THERE IS SPECIFIC REFERENCE TO EXCLUSION OR INCORPORATION IN OTHER QUOTATIONS.

BE INCLUDED AND DESCRIBED IN THE BASE BID.

- . IT SHALL BE UNDERSTOOD THAT THE SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE TELECOMMUNICATIONS WORK. WHERE THERE ARE CONFLICTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR WITHIN THE SPECIFICATIONS OR DRAWINGS THEMSELVES, THE ITEM
- 6. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE OPERATING TELECOMMUNICATIONS CABLING INFRASTRUCTURE SYSTEM. ALL WORK NECESSARY TO PROVIDE SUCH A SYSTEM SHALL BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- THE DRAWINGS FOR COMMUNICATIONS WORK ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITION AFFECTING THE WORK AND ARRANGE SAME ACCORDINGLY.
- THE DRAWINGS FOR COMMUNICATIONS WORK ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITION AFFECTING THE WORK AND ARRANGE SAME ACCORDINGLY. THE DRAWINGS FOR COMMUNICATIONS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS
- WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE COMMUNICATIONS DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS, AND SHOP DRAWINGS OF ALL TRADES. NO EXCLUSION OF, OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR
- COMMUNICATIONS WORK, OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR COMMUNICATIONS WORK, SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT. . CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR COMMUNICATIONS WORK WHICH ARE
- SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBVIATE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK. . ALL TELECOMMUNICATIONS WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS. ANY
- DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF OTHER TRADES RESULTING FROM SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF STIPULATED GUARANTEE PERIODS. 12. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, AND DOCUMENTATION ACCORDING TO THE MANUFACTURER'S REQUIREMENTS NECESSARY TO ENSURE THAT THE FORBES WILL BE FURNISHED WITH A FULL WARRANTY COVERING PRODUCTS AND APPLICATIONS FOR A DURATION OF FIFTEEN (15) YEARS MINIMUM. ALL NECESSARY DOCUMENTATION THAT MUST BE PROVIDED TO THE MANUFACTURER SHALL BE FURNISHED BY THE TELECOM CONTRACTOR
- IMMEDIATELY FOLLOWING 100% TESTING OF ALL CABLING. CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER PROVIDES FORBES WITH THE APPROPRIATE WARRANTY CERTIFICATION WITHIN 90 CALENDAR DAYS OF THE FINAL PROJECT COMPLETION. 13. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY, MUNICIPAL, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE
- COMMUNICATIONS WORK AND THE PROJECT. 14. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE IN THE DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE COMMUNICATIONS WORK, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

CONDUIT AND PULL BOX NOTES

CONDUIT ROUTES AND PULL BOX SIZING, QUANTITY, AND PLACEMENT ARE TO BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL PROVIDE ALL LENGTHS OF CONDUITS, PULL BOXES AND REQUIRED COMPONENTS NECESSARY TO ACHIEVE A COMPLETE CABLING INSTALLATION. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW BRANCH CONDUIT RUNS OF TRADE SIZE 2" OR LESS, NOR ARE THE MAIN CONDUIT ROUTES SHOWN TO BE ASSUMED AS THE INSTALLED CONDITION. RATHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONDUIT ROUTES WITH THE STRUCTURE AND ALL OTHER BUILDING SYSTEMS AND SHALL THEREFORE ASSUME FOR PRICING THAT MATERIAL QUANTITIES ARE NOT DEPENDENT UPON THOSE ROUTES SHOWN.

- THE CONTRACTOR MAY CONSOLIDATE INDIVIDUAL CONDUIT PATHWAYS DIRECTLY SERVING TELECOMMUNICATIONS OUTLETS INTO FEWER AND LARGER CONDUIT. ALL CONDUIT FILL CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR 25% GROWTH. ALL CONDUIT CONSOLIDATIONS SHALL COMPLY WITH TIA STANDARDS AND BICSI GUIDELINES IN GENERAL AND SPECIFICALLY FOR CAPACITY AND DERATING FOR CONDUIT BENDS.
- . ALL CONDUITS SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED AND FURNISHED WITH PULL CORDS. THE CONTRACTOR SHALL ALSO PROVIDE PLASTIC BUSHINGS AT ALL SLEEVE
- . CONDUIT PATHWAYS SHOWN ON THE FLOOR PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT BEND RADIUS.
- 5. RE-ESTABLISH THE FIRE RATING OF ALL CONDUIT AND CABLING PENETRATIONS MADE THROUGH FIRE RATED FLOORS OR WALLS. 6. ALL PULL BOXES, JUNCTION BOXES, AND CONDUITS SHALL BE PROVIDED BY THE
- 7. A PULL BOX SHALL BE PROVIDED WHERE AN AGGREGATE OF CONDUIT RUN BENDS IS EQUAL TO 180° (MAXIMUM). PULL BOXES SHALL NOT BE USED AS A MEANS OF CHANGING
- DIRECTIONS. ALL BENDS/TURNS SHALL OCCUR OUTSIDE THE PULL BOX. 8. A PULL BOX SHALL BE PROVIDED EVERY 100 FT (MAXIMUM) FOR CONTINUOUS CONDUIT
- 9. ALL CONDUIT RUNS SHOULD ACHIEVE THE BEST POSSIBLE DIRECT ROUTE BETWEEN END POINTS WITH NO BEND GREATER THAN 90°.
- 10. THE BEND RADIUS FOR TELECOMMUNICATIONS CONDUITS OF 2" OR LESS IN DIAMETER SHALL BE 6 TIMES (MINIMUM) THE OUTSIDE DIAMETER OF THE CONDUIT.
- 11. THE BEND RADIUS FOR TELECOMMUNICATIONS CONDUITS IN EXCESS OF 2" IN DIAMETER SHALL BE 10 TIMES (MINIMUM) THE OUTSIDE DIAMETER OF THE CONDUIT.
- 12. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A MINIMUM OF (2) PULL CORDS WITH A MINIMUM TEST RATING OF 200LB AND FITTED WITH BUSHED ENDS. 13. EACH PULL BOX/JUNCTION BOX USED FOR TELECOMMUNICATIONS WIRING SHALL BE
- CLEARLY IDENTIFIED ON THE OUTSIDE AS PER EIA/TIA-606 STANDARDS USING PULL BOX PLATES WITH 1" HIGH LETTERS. IN ADDITION EACH PULL BOX SHALL HAVE A P-TOUCH LABEL USING 1" HIGH LETTERS DESIGNATING THE CONDUIT BANK FUNCTION, END POINT, AND START POINT. THE FOLLOWING NOMENCLATURE SHALL BE USED: PULL BOX/J-BOX LABEL CONDUIT BANK LABEL

☐ ORIGIN (IDF ROOMS) UNIQUE IDENTIFICATION NUMBER (001, 002, ...) ----- FLOOR # FUNCTION (RISER, HORIZONTALS, ETC.)

14. THE CONTRACTOR SHALL SIZE ALL PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH FIELD CONDITIONS AND APPROVED STANDARDS (SEE ANSI/EIA/TIA-569B SECTION 8.8.2.5 GUIDELINES). 15. EACH CONDUIT OR SLEEVE BANK EXITING OR ENTERING A TELECOM ROOM SHALL BE LABELLED. THE LABEL SHALL BE ATTACHED TO THE WALL ABOVE OR BELOW THE CONDUIT/SLEEVE BANK IN A GRID METHOD - ROWS AND COLUMNS - AND SHALL USE 1"

HIGH LETTERS. THE NOMENCLATURE USED TO IDENTIFY THE CONDUITS/SLEEVES SHALL

INCLUDE THE FUNCTION DESIGNATION, START POINT, AND END POINT DESCRIBED BELOW:

CONDUIT/SLEEVE SHALL BE TAGGED AS INDICATED. ID TAG TAG SHÀLL BE ATTACHEÓ TO_ THE WALL ABOVE OR BELOW XXX-XXX-XXX THE CONDUIT/SLEEVE BANK

SHALL BE ATTACHED TO THE CORRESPONDING CONDUIT. ORIGIN (E.G., IDF ROOM #) DESTINATION (E.G., IDF ROOM #) - FUNCTION (RISER, HORIZONTALS, ETC.)

ID TAG (1" HIGH LETTERS). EACH

16. ALL UNUSED CONDUITS SHALL BE CAPPED FOR FUTURE USE. 17. ALL RACEWAY AND CONDUIT WORK IS GOVERNED BY THE ELECTRICAL SPECIFICATIONS. REFER TO THE ELECTRICAL CONSULTANT SPECIFICATIONS FOR ADDITIONAL INFORMATION. GENERAL WORK NOTES FOR TELECOM SPACES (IDF ROOMS)

- ALL NEW ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES, KINDORF FRAMING, CONDUITS AND SLEEVES WITHIN TELECOM SPACES ARE TO BE PROVIDED BY THE ELECTRICAL ALL NEW RACKS AND CABINETS WITHIN THE TELECOM SPACES SHALL BE FURNISHED AND INSTALLED BY THE TELECOM CONTRACTOR.
- USE LADDER RACK FOR ANY OVERHEAD TELECOM CABLE ROUTING WITHIN THE TELECOM SPACES. SEE PART PLANS FOR LADDER RACK PLACEMENT, SIZE, QUANTITY, AND ORIENTATION.
- 4. CONTRACTOR SHALL PROVIDE CABLE SPILL-OUTS ("WATERFALLS") ON OVERHEAD LADDER RACK SYSTEMS WITHIN THE TELECOM SPACES WHEREVER CABLING IS ROUTED FROM THE LADDER RACK TO THE EQUIPMENT RACKS/CABINETS BELOW.
- . FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL NEW AND EXISTING THROUGH PENETRATIONS OF CABLING, CONDUIT, SLEEVES, CABLE TRAYS, ETC., THROUGH FIRE-RATED WALLS AND FLOORS AND OTHER FIRE-RATED PARTITIONS WITHIN THE TELECOM SPACES, FIRESTOP SYSTEMS SHALL CONSIST OF A MATERIAL, OR COMBINATION OF MATERIALS, INSTALLED TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION WITHIN THE TELECOM SPACES.
- 6. ONE WALL PHONE SHALL BE PROVIDED WITHIN EACH TELECOM SPACE, MOUNTED AT 54" A.F.F. ALL COORDINATION IN THE CEILING AND RAISED FLOOR OF TELECOM SPACES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 8. THE CONTRACTOR SHALL PROVIDE, OR UTILIZE EXISTING, KINDORF FRAMING OR VERTICAL LADDER RACK FOR CABLE SUPPORT BEHIND FLOOR-PENETRATING CONDUITS AND SLEEVES IN ALL TELECOM SPACES.
- 9. TELECOM CONTRACTOR TO COORDINATE LADDER RACK AND/OR KINDORF FRAMING SUPPORT SYSTEM LOCATIONS. 10. ALL ELECTRICAL RECEPTACLES DEDICATED TO ACTIVE EQUIPMENT WITHIN THE TELECOM SPACES SHALL BE WIRED TO EMERGENCY POWER, IF AVAILABLE.
- 11. ALL TELECOM SPACES SHALL BE PROVIDED WITH A MINIMUM EQUIVALENT OF 500 lux (500 FOOT-CANDLES) MEASURED AT 1'-0" A.F.F. 12. REGARDLESS OF THE INDICATION OF THE TELECOM ROOM DETAILS AND PART PLANS, THE

CONTRACTOR SHALL PROVIDE ALL PATCH PANELS AND/OR 110 TYPE BLOCKS AND ALL

MISCELLANEOUS TERMINATION HARDWARE REQUIRED TO TERMINATE ALL RISER AND HORIZONTAL CABLING. A MINIMUM 10% SPARE CAPACITY FOR THE AFOREMENTIONED HARDWARE SHALL BE 13. ALL FIBER STRANDS WITHIN TELECOM SPACES SHALL BE TERMINATED WITH LC CONNECTORS AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS AND THE PERFORMANCE OF THE CABLE.

14. PATCH PANELS FOR COPPER CABLING SHALL BE FORTY-EIGHT (48) PORT AND SHALL HAVE 8-POSITION, 8-CONTACT (8P8C) MODULAR JACKS ON THE FRONT OF THE PANEL AND 110 TYPE TERMINATIONS ON THE BACK. THE PATCH PANELS SHALL FOLLOW THE EIA/TIA T568B WIRING STANDARD. STRAIN RELIEF BRACKETS SHALL BE PROVIDED FOR THE BACK OF EACH

WORK NOTES FOR TELECOMMUNICATIONS WALLFIELDS

PLYWOOD BACKBOARDS (BY THE GENERAL CONTRACTOR) SHALL BE PROVIDED ON ALL IDF ROOM PERIMETER WALLS, UNLESS OTHERWISE NOTED. RÉFER TO THE TELECOM PART PLANS FOR THESE ROOMS FOR ADDITIONAL INFORMATION. 2. PLYWOOD BACKBOARDS WITHIN THE TELECOM SPACES SHALL BE 4'(W) X 8'(H) X 3/4"(D)

FIRE-RATED AND PAINTED WITH FIRE RETARDANT PAINT. THE FIRE RATING STAMP MUST BE

TELECOM OUTLETS AND ELECTRICAL RECEPTACLES WITHIN THE TELECOM SPACES SHALL BE FLUSH/SURFACE MOUNTED TO THE PLYWOOD BACKBOARDS AND INSTALLED USING THE APPROPRIATE BACK BOXES.

AND GRADED A-C WITH "A" SIDE FACING OUT. PLYWOOD BACKBOARDS SHALL BE

LEFT VISIBLE.

GROUNDING AND BONDING

- THE TELECOMMUNICATIONS GROUNDING/EARTHING SYSTEM SHALL MEET FOLLOWING CRITERIA: 1. LOCAL ELECTRICAL CODES SHALL BE ADHERED TO.
- 2. THE GROUNDING/EARTHING SYSTEM SHALL COMPLY WITH J-STD-607-A AND ANSI/TIA-942. 3. ALL GROUNDING/EARTHING CONDUCTORS SHALL BE COPPER.
- QUALITY TIN-PLATED ELECTROLYTIC COPPER THAT PROVIDES LOW ELECTRICAL RESISTANCE WHILE INHIBITING CORROSION. ANTIOXIDANT SHALL BE USED WHEN MAKING BONDING
- WHEREVER POSSIBLE, TWO-HOLE LUGS SHALL BE USED TO RESIST LOOSENING WHEN TWISTED, BUMPED, OR EXPOSED TO VIBRATION. ALL LUGS SHALL BE OF AN IRREVERSIBLE COMPRESSION TYPE AND MEET NEBS LEVEL 3 AS TESTED BY TELCORDIA. LUGS WITH INSPECTION WINDOWS
- SHALL BE USED IN ALL NON-CORROSIVE ENVIRONMENTS SO THAT CONNECTIONS MAY BE INSPECTED FOR FULL CONDUCTOR INSERTION. 6. DIE INDEX NUMBERS SHALL BE EMBOSSED ON ALL COMPRESSION CONNECTIONS TO ALLOW FOR
- CRIMP INSPECTION. CABLE ASSEMBLIES SHALL BE UL LISTED AND CSA CERTIFIED. CABLES SHALL BE A DISTINCTIVE GREEN OR GREEN/YELLOW IN COLOR TO SIGNIFY THAT THEY ARE GROUNDING

CONDUCTORS, AND ALL JACKETS SHALL BE UL, VW-1 FLAME RATED.

- 8. A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE LOCATED WITHIN EACH IDF ROOM. THE TGB SHALL BE BONDED TO BUILDING STEEL AND GROUNDED/EARTHED TO THE
- ELECTRICAL SERVICE GROUND ACCORDING TO J-STD-607-A GUIDELINES.

FIRESTOPPING

FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL THROUGH PENETRATIONS OF TELECOMMUNICATIONS CABLING, CONDUIT, SLEEVES, CABLE TRAYS, ETC., THROUGH FIRE-RATED WALLS AND FLOORS AND OTHER FIRE-RATED PARTITIONS. FIRESTOP SYSTEMS SHALL CONSIST OF MECHANICAL OR NON-MECHANICAL MATERIALS, OR COMBINATION OF MATERIALS, INSTALLED TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION BARRIERS.

- FIRE-STOPPING SYSTEMS AND SOLUTIONS SHALL BE IN ACCORDANCE WITH NFPA 70: NATIONAL ELECTRIC CODE 2011 ARTICLES AND THE AUTHORITY HAVING JURISDICTION (AHJ). WHERE NON-MECHANICAL FIRESTOP SYSTEMS ARE UTILIZED. CONTRACTOR TO PROVIDE PRODUCTS THAT UPON CURING DO NO RE-EMULSIFY, DISSOLVE, BREAKDOWN OR OTHERWISE DETERIORATE OVER TIME FROM EXPOSURE TO ATMOSPHERIC MOISTURE, SWEATING PIPES. PONDING WATER, OR OTHER FORMS OF MOISTURE CHARACTERISTIC DURING OR AFTER CONSTRUCTION.
- ALL WALL PENETRATIONS FOR CABLE TRAY/LADDER RACK TRANSITIONS SHALL UTILIZE SLEEVES FOR HORIZONTAL CABLING DISTRIBUTION AND FIRESTOPPING. 5. PROVIDE ONLY FIRESTOPPING PRODUCTS THAT HAVE BEEN TESTED FOR SPECIFIC FIRE RESISTANCE RATED CONSTRUCTION CONDITIONS CONFORMING TO CONSTRUCTION ASSEMBLY

TYPE, PENETRATING ITEM TYPE, ANNULAR SPACE REQUIREMENTS, AND FIRE RATING INVOLVED

. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CERTIFY THAT ALL THROUGH PENETRATIONS FOR COMMUNICATIONS CABLING HAVE BEEN SATISFACTORILY SEALED AND

CROSS-CONNECTING AND PATCHING SCOPE OF WORK NOTES

FOR EACH SEPARATE INSTANCE.

- PATCH CORDS SHALL BE FURNISHED AND INSTALLED FOR EACH NEW TELECOM OUTLET. 2. PATCH CORDS SHALL BE OF THE SAME CABLE QUALITY AND MANUFACTURED BY THE SAME MANUFACTURER AS THE CABLE TO WHICH THEY ARE CONNECTING. FOR BIDDING PURPOSES, THE FOLLOWING BREAKDOWN SHALL BE CONSIDERED FOR THE IDF ROOMS: 7' - 65%
- 15' 10% EXACT QUANTITIES BY LENGTH TO BE CONFIRMED WITH OWNER PRIOR TO PURCHASING. 3. WORKSTATION PATCH CORDS SHALL HAVE THE FOLLOWING BREAKDOWN: 7' - 100%
- EXACT QUANTITIES BY LENGTH TO BE CONFIRMED WITH OWNER PRIOR TO PURCHASING. 4. PATCH CORDS SHALL BE COLOR-CODED. CONTRACTOR TO CONFIRM WITH OWNER PATCH CORD COLORS FOR VARIOUS NETWORK APPLICATIONS (VOICE, DATA, WiFi, AV, ETC.).
- 5. PATCH PANEL PATCHING SHALL BE PERFORMED STARTING FROM PATCH PANEL PORT NUMBER ONE AND CONTINUING IN CONSECUTIVE ORDER TO THE MAXIMUM EXTENT POSSIBLE.
- 6. ALL PATCHING SHALL BE NEATLY DRESSED AND TIED USING COLOR CODED VELCRO CABLE QUANTITIES:
- (1) TIMES THE NUMBER OF TERMINATED CABLES IN THE IDF ROOMS; (1) TIMES THE NUMBER OF TELECOM OUTLET PORTS AT END DEVICE LOCATIONS.

TELECOMMUNICATIONS CABLING AND OUTLET NOTES

- HE IDF ROOMS. THE RISER SYSTEM INFRASTRUCTURE SHALL CONSIST OF FIBER OPTIC AND COPPER CABLING, MECHANICAL TERMINATIONS, MAIN AND INTERMEDIATE CROSS-CONNECTS, AND PATCH CORDS USED FOR CROSS-CONNECTION.
- ALL FIBER RISER CABLING SHALL BE INSIDE PLANT, PLENUM RATED. TIGHT BUFFERED OPTICAL FIBER, WITH FIBER COUNTS AS INDICATED ON DRAWINGS. MULTIMODE FIBER SHALL BE OM3 TYPE, 50/125 MICRON. MECHANICAL AND TRANSMISSION PERFORMANCE SHALL MEET OR EXCEED ANSI/TIA/EIA-568-C.3 SPECIFICATIONS.
- BRIDGED TAPS, SPLITTERS, SPLICES, ETC. SHALL NOT BE USED AS PART OF ANY BACKBONE CABLING INSTALLATION. ALL BACKBONE CABLING SHALL BE HOMERUN FROM IDF ROOM TO IDF
- THE BACKBONE CABLING SYSTEM SHALL COMPLY WITH THE GENERAL PERFORMANCE STANDARDS OF TIA/EIA-568-C.O, WHEN TESTED ACCORDING TO THE TEST PROCEDURES OF
- 5. ALL HORIZONTAL QUAD SHIELDED RG-6 COAXIAL CABLING FOR CATV USE SHALL BE TERMINATED WITH "F" TYPE COMPRESSION CONNECTORS AT BOTH ENDS. THE COAXIAL CABLING SHALL BE ROUTED BACK TO THE AV RACK SERVING THE OUTLET AND LEFT COILED
- WITH 10' OF SLACK FOR CONNECTION TO CATV TUNERS (PERFORMED BY OTHERS). . ALL HORIZONTAL COPPER CABLING SHALL BE WHITE IN COLOR AND SHALL BE PLENUM RATED 4-PAIR CATEGORY 6 UTP. ALL HORIZONTAL COPPER CABLING SHALL BE TERMINATED ON CATEGORY 6 UTP PATCH PANELS INSTALLED IN THE TELECOM IDF ROOMS. ALL HORIZONTAL COPPER CABLING AND ALL ASSOCIATED COMPONENTS (I.E. CONNECTORS, FACEPLATES, PATCH PANELS, PATCH CORDS, ETC.) SHALL BE PRODUCTS OF THE FOLLOWING MANUFACTURER'S
- WARRANTED SOLUTIONS: HUBBELL/MOHAWK ALL NEW HORIZONTAL COPPER DATA CABLING SHALL BE TESTED AND CERTIFIED TO MEET MANUFACTURER'S CAT 6 PERFORMANCE CRITERIA AND SHALL BE COVERED UNDER THE
- MANUFACTURER'S WARRANTY. B. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS DESCRIBED IN
- 9. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS SYMBOL SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS DESCRIBED IN THIS SECTION (EVEN IF NO OUTLET TAG HAS BEEN PROVIDED).
- 10. HORIZONTAL CABLING ROUTED THROUGH ACCESSIBLE CEILING OR UNDER RAISED FLOOR SHALL BE SUPPORTED USING J-HOOKS OFF OF CEILING SUPPORT HANGERS OR RAISED FLOOR PEDESTALS NO MORE THAN 5 FEET APART TO ELIMINATE CABLE STRESS. BUNDLES SHALL NOT EXCEED 3" IN DIAMETER, AND SHOULD BE TIE WRAPPED NO MORE THAN 6 FEET ON CENTER.
- . HORIZONTAL CABLING THAT ROUTES EXPOSED, THAT ROUTES WITHOUT CABLE TRAY SUPPORT, OR THAT BRANCHES OFF OF CABLE TRAY AND/OR KINDORF FRAMING SHALL BE SUPPORTED USING J-HOOKS SECURED NO MORE THAN 5 FEET APART TO ELIMINATE CABLE STRESS. MAXIMUM CABLE SAG BETWEEN J-HOOK SUPPORTS SHALL NOT EXCEED 12". BUNDLES SHALL NOT EXCEED 3" IN DIAMETER, AND SHALL BE TIE WRAPPED NO MORE THAN 6 FEET ON
- 12. REFER TO TELECOM SYMBOL LIST FOR BACK BOX REQUIREMENTS FOR ALL TELECOMMUNICATIONS OUTLETS. IF A BACK BOX IS SHARED BETWEEN THE ELECTRICAL AND TELECOM TRADES, THEN A DIVIDER SHALL BE PROVIDED BETWEEN THE ELECTRICAL AND TELECOM SECTIONS OF THE BOX. TWO GANGS SHALL BE RESERVED FOR TELECOM USE WITHIN
- THE COMMON ELEC/TELECOM BACK BOX. 13. UNLESS OTHERWISE NOTED, ALL TELECOM OUTLETS SHALL BE PROVIDED WITH A 1-1/4" CONDUIT STUB (PROVIDED BY ELECTRICAL CONTRACTOR). IF REQUIRED BY FIELD CONDITIONS,
- HOME RUN CONDUITS SHALL BE PROVIDED TO THE TELÉCOM IDF ROOM. 14. ALL COMMUNICATIONS IN-FEEDS TO FURNITURE SYSTEMS SHALL BE COORDINATED WITH THE
- FURNITURE SYSTEM VENDOR. 15. CONTRACTOR TO PROVIDE WHITE SELF-LAMINATING ADHESIVE LABELS, MACHINE PRINTABLE WITH A LASER PRINTER, FOR ALL HORIZONTAL CABLING AND HORIZONTAL CABLING
- TERMINATION LOCATIONS (FACEPLATES, PATCH PANELS, ETC.). 16. REFER TO THE TELECOMMUNICATIONS DETAILS SHEETS FOR FACEPLATE DETAILS, JACK POSITION ASSIGNMENTS, AND MORE INFORMATION.

17. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL

DIVISION OF RESPONSIBILITY

CATEGORY	DESCRIPTION	T.C.	CLIENT	G.C.	E.C.
IT PATHWAYS	CONDUITS, SLEEVES, PULLBOXES, STUB-UPS, BACKBOXES, FRAMED WALL OPENINGS				F/I
IT PATHWAYS	FURNITURE INFEEDS FROM WALL				F/I
IT PATHWAYS	FURNITURE INFEEDS FROM FLOOR				F/I
DF ROOM FITOUT	PLYWOOD BACKBOARDS			F/I	
DF ROOM FITOUT	POWER FOR EQUIPMENT RACKS				F/I
DF ROOM FITOUT	GROUNDING BUSBAR				F/I
DF ROOM FITOUT	GENERAL CONVENIENCE POWER				F/I
DF ROOM FITOUT	TELECOM EQUIPMENT RACKS, LADDER RACK	F/I			
DF ROOM FITOUT	HORIZONTAL/VERTICAL WIRE MANAGERS	F/I			
DF ROOM FITOUT	COPPER/FIBER PATCH PANELS	F/I			
DF ROOM FITOUT	COPPER/FIBER PATCH CORDS	F/I			
DF ROOM EQUIPMENT	LAN EQUIPMENT (SWITCHES, SERVERS, ETC.)		F/I		
DF ROOM EQUIPMENT	WAN EQUIPMENT (ROUTERS, FIREWALLS, ETC.)		F/I		
DF ROOM EQUIPMENT	UNINTERRUPTIBLE POWER SUPPLIES (UPS)		F/I		
FLOOR FITOUT	VOICE/DATA COMMUNICATIONS CABLING	F/I			
FLOOR FITOUT	CABLING CONNECTORS & FACEPLATES	F/I			
FLOOR FITOUT	WORKSTATION CABLES (PATCH CORDS)	F/I			
FLOOR FITOUT	WIRELESS ACCESS POINTS	1	F		
FLOOR FITOUT	PHONES, PCs, WORKSTATIONS		F/I		
F = FURNISH I = INSTALL	T.C. = TELECOM CONTRA G.C. = GENERAL CONTRA				<u> </u>

TELECOMMUNICATIONS LIST OF DRAWINGS

F/I = FURNISH AND INSTALL E.C. = ELECTRICAL CONTRACTOR

DWG. #	DRAWING NAME			
T-001	TELECOMMUNICATIONS GENERAL NOTES, SYMBOLS AND DRAWINGS LIST			
T-100	TELECOM LEVEL 01 PLAN			
T-400	TELECOM MDF ROOM LAYOUTS AND ELEVATIONS			
T-500	TELECOM DETAILS SHEET #1			
T-501	TELECOM DETAILS SHEET #2			
T-700	TELECOM CABLING DISTRIBUTION DIAGRAM AND DETAILS			

ADDITIONAL SCOPE OF WORK NOTES

TELECOM CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM PRICING, AS PART OF THE BASE CONTRACT, FOR THE INSTALLATION OF ALL WIRELESS ACCESS POINTS (FURNISHED AND DELIVERED BY CLIENT). SUCH PRICING TO INCLUDE LABOR AND MOUNTING HARDWARE FOR

(THIS LIST OF ABBREVIATIONS DOES NOT APPLY TO ANY LETTERS USED IN CONJUNCTION WITH SYMBOLS)

				,	
Α	_	AMPS	ISP	_	INTERNET SERVICE PROVIDE
AC	_	ALTERNATING CURRENT	JBOX	_	JUNCTION BOX
ADJ	_	ADJACENT	MDF	_	MAIN DISTRIBUTION FRAME
AFF	_	ABOVE FINISHED FLOOR	MECH	_	MECHANICAL
AFG	_	ABOVE FINISHED GRADE	MEP	_	MECH/ELEC/PLUMBING
AIR CON	D –	AIR CONDITIONING	MIC	_	MICROPHONE
ARCH	_	ARCHITECTURAL	MIN	_	MINIMUM
ASYM	_	ASYMMETRICAL	MISC	_	MISCELLANEOUS
AUTO	_	AUTOMATIC	MTD	_	MOUNTED
ΑV	_	AUDIOVISUAL	NA	_	
AVG	_	AVERAGE	NEC	_	NATIONAL ELECTRIC CODE
AWG	_	AMERICAN WIRE GAUGE	NEMA	_	
BL		BLANK			MANUFACTURERS ASSOC.
BLDG	_	BUILDING	NTS	_	NOT TO SCALE
С	_	CENTER LINE	OD	_	
CAT	_	CATEGORY	PB	_	
CATV		CABLE TELEVISION	PBX	_	PRIVATE BRANCH EXCHANGE
CCTV		CLOSED CIRCUIT TELEVISION	PCU		POWER CONDITIONING UNIT
CKT		CIRCUIT	PDU		POWER DISTRIBUTION UNIT
CLG		CEILING	PG	_	
CLOS		CLOSET	PH	_	PHASE
CM		CIRCULAR MIL	REQ	_	
COAX		COAXIAL CABLE	RM		ROOM
COL		COLUMN	RMS	_	
CONC		CONCRETE	S		SOUND
COND		CONDUIT	SEC		SECURITY
DC		DIRECT CURRENT	SEP		SEPARATE
DIA		DIAMETER	SO.		SOUTH
DN		DOWN	SPECS		SPECIFICATIONS
DTL		DETAIL	SPKLR		SPRINKLER
DWG		DRAWING	STD	_	
EA		EACH	STP	_	SHIELDED TWISTED PAIR
E.C.		EMPTY CONDUIT	TEL	_	
EC EC		ELECTRICAL CONTRACTOR	TERM	_	
EF		ENTRANCE FACILITY	TELCO		TELEPHONE CO.
EIA/TIA		ELECTRONIC INDUSTRIES ASSOC/	TV	_	
בואן ווא		TELECOM INDUSTRIES ASSO.	TYP	_	
EL	_	ELEVATION	UFD	_	
ELEC		ELECTRIC	UON		UNLESS OTHERWISE NOTED
ELEV		ELEVATOR	UPS	_	
EM		ON EMERGENCY CIRCUIT	073	_	SUPPLY
∟ivi	_	SIDED ADDRESS			JUFFLI

GC – GENERAL CONTRACTOR

HVAC - HEATING VENTILATING

IDENTIFICATION

INTERMEDIATE DISTRIBUTION FRAME

UNSHIELDED TWISTED PAIR

Model No.

M57193 IFP12x HXJ60W

HXJ60W

M57193 FP2BK

HXJ60W

P630S1GJ6

M59146

ISB2x

НХЈ6х

HXJ60W

ISB1OW

HXJ60W

15253-703

40095-703 35441-702

35441-701

P648A

ΗΡ6Δ48Δ

HC6Axxyy*

PC6ABK

HUBBELL

V – VOLTS

W/ – WITH

w/o – without

VA – VOLTAMPERES

VENT - VENTILATING

HOR		
	IZONTAL CABLING	
	Description	Manufact
	/all/Floor Mounted 2-Port Data Outlet	
_	Category 6 U/UTP Cable, plenum, white jacket	MOHAW
	2-Port Single Gang Faceplate	HUBBEL
	Category 6 8p8C Modular Jack -Connector	HUBBEL
2. V	/all Mounted 4-Port Data Outlet for copy machine	
	Category 6 U/UTP Cable, plenum, white jacket	MOHAW
	4-Port Single Gang Faceplate	HUBBEL
	Category 6 8p8C Modular Jack -Connector	HUBBEL
$\overline{}$	Category 6 U/UTP Cable, plenum, white jacket 2-Port Surface Mounted Box	MOHAW HUBBEL
	Category 6 8p8C Modular Jack -Connector	HUBBEL
2 14	(all Manushad 1 Dank phone Outlat	
<u>ی. ۷</u>	/all Mounted 1-Port phone Outlet Category 6 U/UTP Cable, plenum, white jacket	MOHAW
	1-Port Single Gang Faceplate	HUBBEL
\dashv	1-roit Single Gang Laceplate	TIODDEL
4. C	eiling Mounted Wireless Access Point 2-Port Data Outlet	1
	Category 6A Cable, plenum, white jacket	MOHAW
-	2-Port Surface Mounted Box	HUBBEL
	2 TOTE SUFFICE FISHINGS DOX	110000

HUBBELL 1-Port Surface Mounted Box |Category 6 8p8C Modular Jack -Connector HUBBELL LOOR TELECOMMUNICATIONS ROOM (IDF Room | Manufacturer | Model No. Description 4 Post ADJUSTABLE RAIL QUADRA RACK, 45RU, 84"H, 36"D, 23"W, Chatsworth SQUARE MOUNTING HOLES WITH CAGE NUTS, BLACK |Horizontal Manager, 2 RU, 19 in, single sided Chatsworth Horizontal Manager, 1 RU, 19 in, single sided HUBBELL Category 6 Patch Panel, 48 port - ANGLED Category 6a Patch Panel 48 nort - ANGLED Category 6 U/UTP Patch Cords, lengths vary as required HUBBELL HUBBELL Category 6A Patch Cords, lengths vary as required

Category 6 8p8C Modular Jack -Connector

Category 6 U/UTP Cable, plenum, white jacket

. Ceiling Mounted 1-Port Data Outlet

18"Universal Cable Runway (Ladder Rack)	HUBBELL	HLS1018B
Ladder Rack Wall Angle Support	HUBBELL	HLX1518
Ladder Rack Triangular Support Bracket (For Mid-Span Perimeter	HUBBELL	
Support)	HODDELL	HLTSB18B
Ladder Rack Heavey Duty Butt-Splice Kit	HUBBELL	HLBSK
Ladder Rack Heavey Duty Junction -Splice Kit	HUBBELL	HLTK
Ladder Rack Threaded Ceiling Kit	HUBBELL	HLCMK
3. Grounding and Bonding Materials		
Telecom Main Grounding Busbar	HUBBELL	HBBB14420J
Associated Support Material (6AWG,Lugs,etc.)	HUBBELL	TBD
Fully Loaded 100Pair Stackable Building Entrance Terminal	Circa	1880ECA1-100-3BI
Rack mounted 5kVA UPS - PROVIDED BY CLIENT	APC	BY CLIENT
Vertical PDU - PROVIDED BY CLIENT	APC	BY CLIENT

<u>MISCELLA NEOUS MATERIA I</u> Manufacturer Model No. Description Erico/Caddy 1/2 Streaded R 10557-003 Threaded Rod I-Beam Clamps |Field ConfigurableFittings Supports and Hardware

777 Old Saw Mill River Road

Mount Pleasant, NY 10591 Project No. B17-DAYCARE

REGENERON

REAL ESTATE &

FACILITIES MANAGEMENT

Campus Expansion Child

777 Old Saw Mill River Road

Tarrytown, NY 10591-6707

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F: 914.847.7991

Building #17

www.regeneron.com

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120 Broadway, 15th Floor New York, NY 10271 (917) 661-7800 Phone

(917) 661-7801 Fax

MEP / IT / Security Engineer Cosentini Associates 498 Seventh Avenue New York, NY 10018

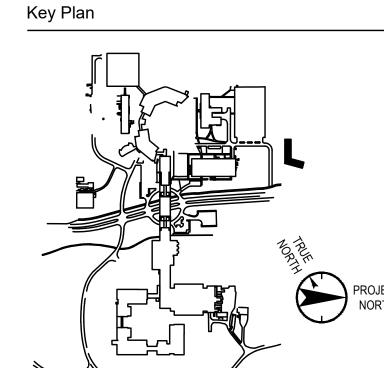
(212) 615-3600 Phone (212) 615-3700 Fax

Civil Engineer 120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone

Landscape Architect

(914) 273-2102 Fax

21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 (212) 479-5400 Phone (212) 479-5444 Fax



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Professional Seal and Signature

Vendor Name: GENSLER Vendor Project No.:006.3608.000 Drawn By: Author TELECOM GENERAL NOTES SYMBOLS, AND DRAWING

Floor:

Scale: N.T.S.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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Building #17 Campus Expansion Child Day-care Center

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Landscape Architect

Key Plan

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No. Date Description

0 05.20.2022 ISSUED FOR PERMIT

Plot Date: 11/17/21

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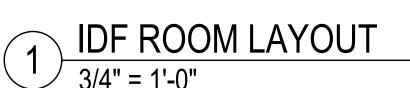
Vendor Name: GENSLER Vendor Project No.: 006.3608.000 TELECOM LEVEL 01 PLAN

Scale: 1/8" = 1'-0" Floor:

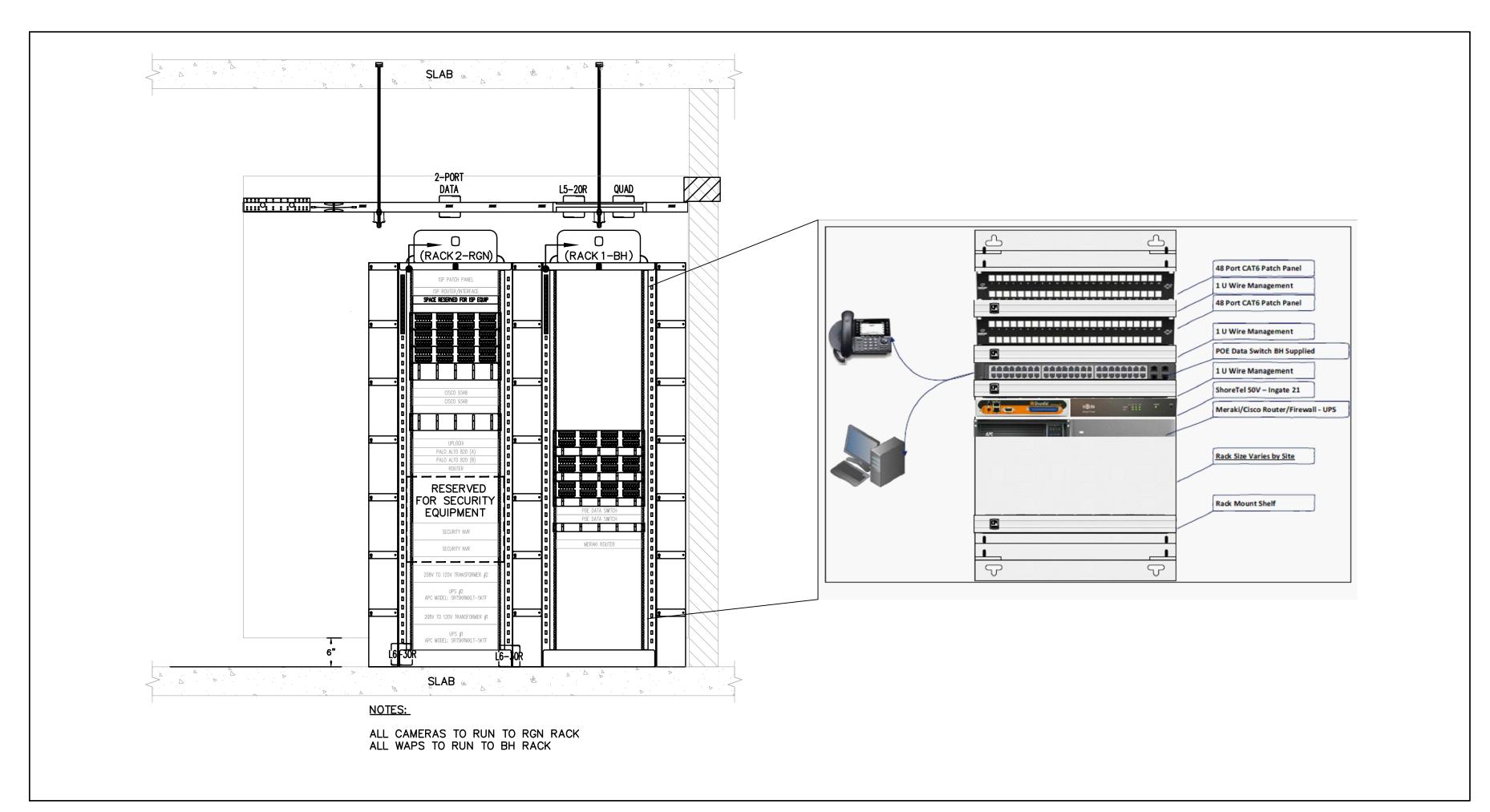
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Alterations or additions to this engineering the New York State Education Law.







3 IDF ROOM RACK ELEVATIONS
3/4" = 1'-0"

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Building #17
Campus Expansion Child
Day-care Center

777 Old Saw Mill River Road Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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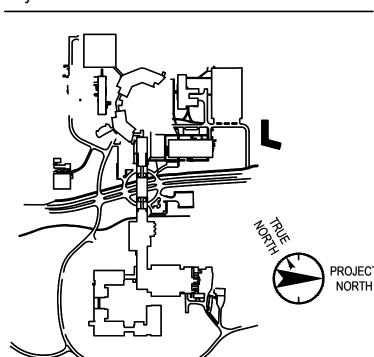
(212) 615-3700 Fax Civil Engineer

JMC 120 Bedford Road Armonk, NY 10504 (914) 273-5225 Phone (914) 273-2102 Fax

Landscape Architect

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Key Plan



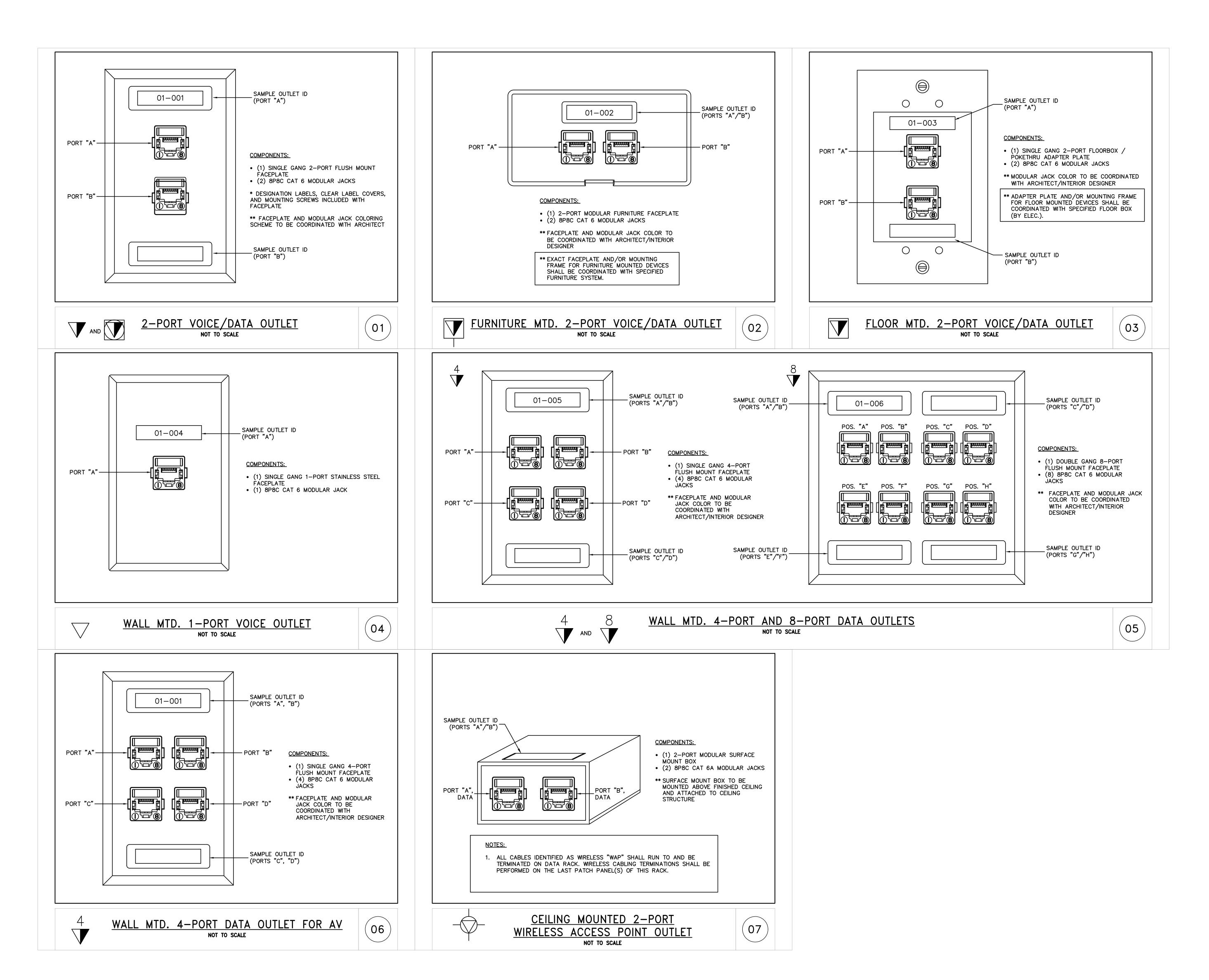
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Scale: AS NOTED



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Discipline: Drawn By: Author
TELECOM DETAILS SHEET #1

Floor: Scale: N.T.S.

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

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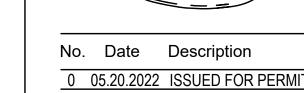
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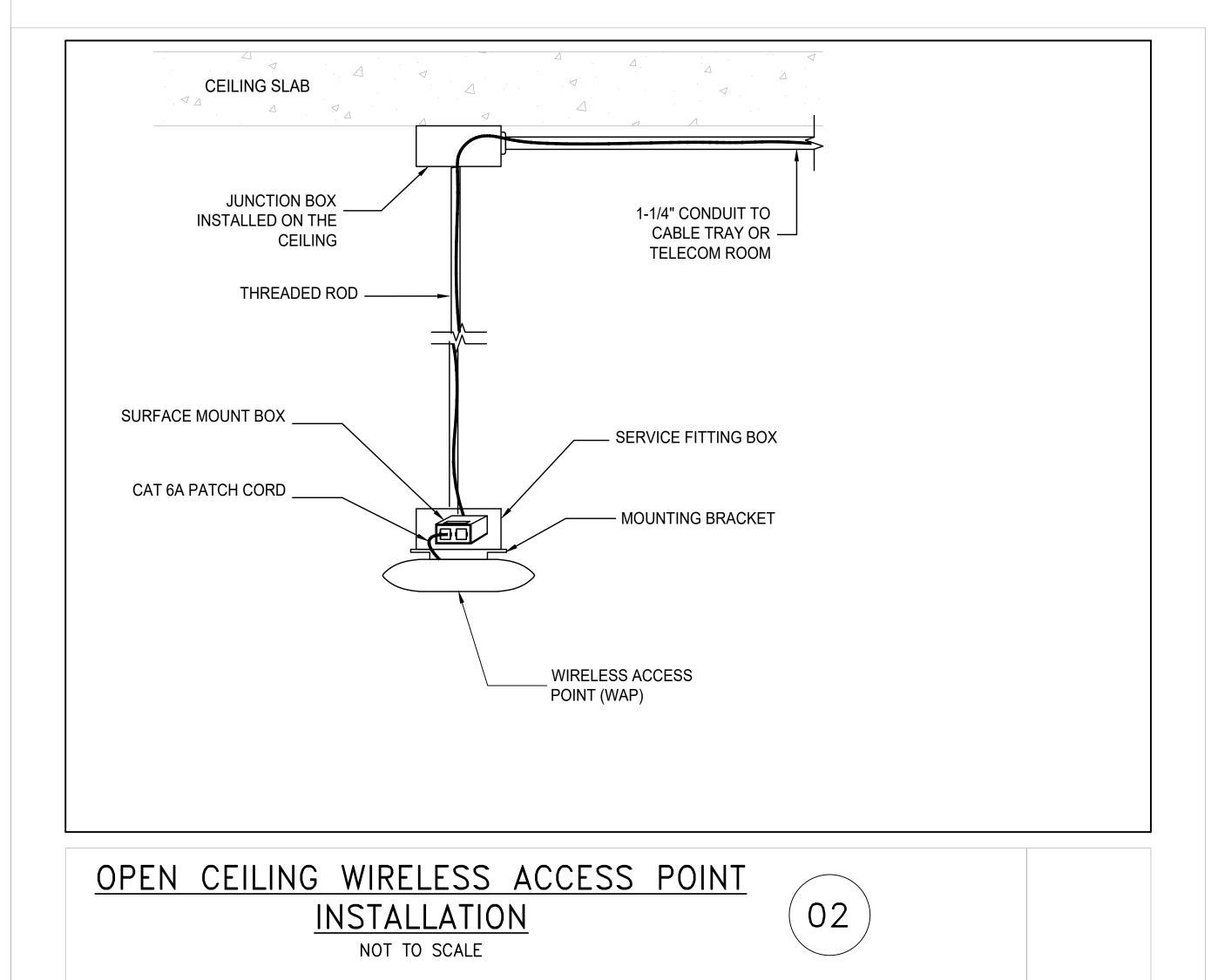
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TELECOM DETAILS SHÉET #2

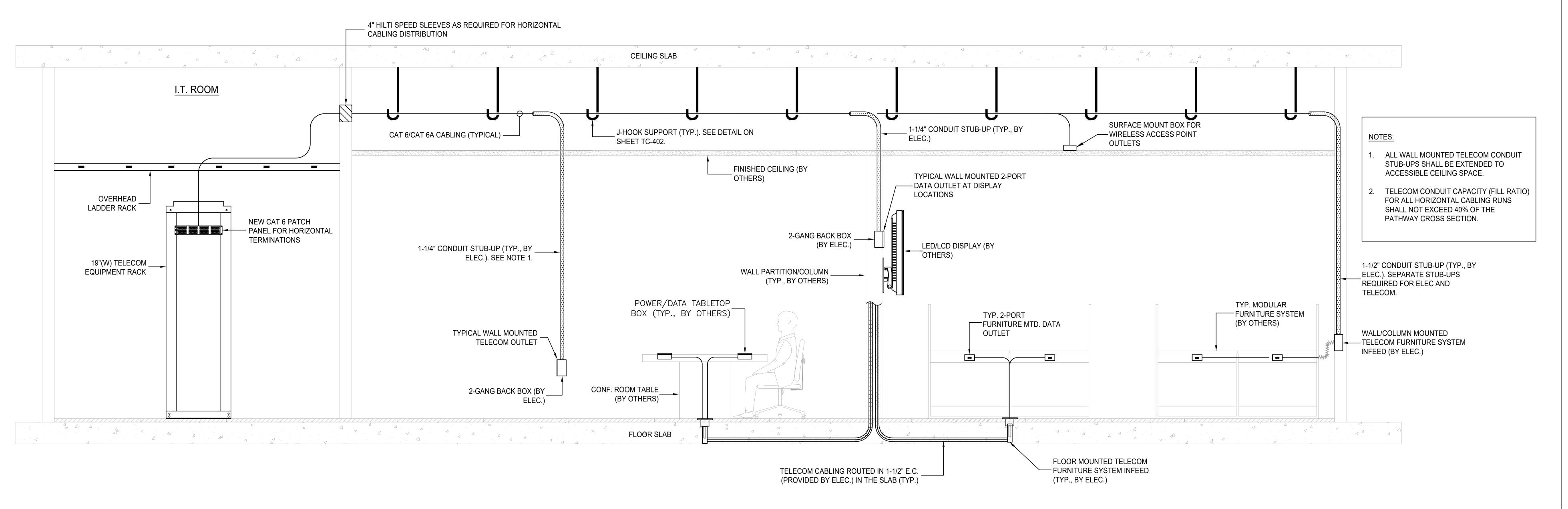
Floor: Scale: N.T.S.

NOT TO SCALE



FINISHED CEILING WIRELESS ACCESS POINT INSTALLATION NOT TO SCALE

01



TYPICAL HORIZONTAL CABLING DISTRIBUTION SCHEME (FLOOR SECTION VIEW) NOT TO SCALE

> TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

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Professional Seal and Signature

Vendor Name: GENSLER Vendor Project No.: 006.3608.000 Drawn By: Author TELECOM CABLING DISTRIBUTION DIAGRAM AND **DETAILS**

Scale: N.T.S. Floor:

T-700