

777 Old Saw Mill River Road  
Tarrytown, NY 10591-6707  
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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

Architect

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Key Plan

No. Date Description

0 05 2022 ISSUED FOR PERMIT

Professional Seal and Signature

Scale: N.T.S. Floor:

Vendor Name: GENSLER

Vendor Project No.: 006.3608.000

Discipline: Drawn By: Author

TELECOM GENERAL NOTES, SYMBOLS, AND DRAWING LIST

Scale: N.T.S. Floor:

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10/11/2021 REGENERON PHARMACEUTICALS INC.

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TELECOM GENERAL NOTES, SYMBOLS, AND DRAWING LIST

TELECOM SYMBOLS

SYMBOL DESCRIPTION CABLE QUANTITY & TYPE BOX TYPE (BY ELEC.) CONDUIT SIZE (BY ELEC.)

WALL MTD. 2-PORT VOICE/DATA OUTLET (2) CAT 6 UTP 2-GANG BOX W/ 1-GANG COLLAR 1-1/4" E.C.

FURNITURE MTD. 2-PORT VOICE/DATA OUTLET (2) CAT 6 UTP N/A N/A

CEILING MTD. 2-PORT OUTLET FOR WIRELESS ACCESS POINT (2) CAT 6A SURFACE MOUNT BOX 1-1/4" E.C.

FLOOR MOUNTED FURNITURE IN-FEED FOR MODULAR FURNITURE SYSTEM PROVIDE MIN. 2" CIRCUMETERED OPENING FOR CABLE PASS-THROUGH. CONTRACTOR TO PROVIDE SPLIT LUME FOR CABLE PROTECTION WHERE CABLES IS EXPOSED.

WALL MTD. 1-PORT VOICE OUTLET (1) CAT 6 UTP 2-GANG BOX W/ 1-GANG COLLAR 1-1/4" E.C.

WALL MTD. 4-PORT DATA OUTLET (4) CAT 6 UTP 2-GANG BOX W/ 1-GANG COLLAR 1-1/4" E.C.

WALL MTD. 8-PORT DATA OUTLET (8) CAT 6 UTP 2-GANG BOX W/ 1-GANG COLLAR 1-1/4" E.C.

2-PORT VOICE/DATA WITHIN TABLE TOP CUBBY (2) CAT 6 UTP TABLE TOP CUBBY USE FURNITURE CABLE MANAGEMENT

ELECTRICAL SYMBOLS (FOR INFORMATION ONLY)

QUAD ELECTRICAL OUTLET 20A/120V TWIST LOCK RECEPTACLE

DUPLEX ELECTRICAL OUTLET 30A/208V TWIST LOCK RECEPTACLE

CONDUIT BANK

CONDUIT BANK TERMINATED

SLEEVE THROUGH WALL WITH REAMED AND BUSHED ENDS

TELECOMMUNICATIONS PULL BOX OR JUNCTION BOX

TAG SYMBOLS

STANDARD DETAIL NO. DESIGNATION

STANDARD REVISION TAG

STANDARD REVISION BUBBLE

INDEXING SYMBOL

ELEVATION TAG

TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG

GENERAL NOTES FOR NEW CONSTRUCTION

1. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS AND THE LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT ARISE DURING THE SITE VISIT AND SHALL REQUEST CLARIFICATION, IF NECESSARY.

3. ANY WORK REQUIRED DUE TO DIFFICULTIES RESULTING FROM EXISTING CONDITIONS SHALL BE INCLUDED AND DESCRIBED IN THE BASE BID.

4. 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 DIVISIONS.

5. 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 OF HIGHER STANDARD SHALL GOVERN.

6. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE OPERATING TELECOMMUNICATIONS CABLE INFRASTRUCTURE SYSTEM. ALL WORK NECESSARY TO PROVIDE SUCH A SYSTEM SHALL BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.

7. 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.

8. 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.

9. 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 FOR OMISSION OF EQUIPMENT.

10. 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 TO BE USED AS A GUIDE TO THE WORK AND NOT TO BE USED AS A BASIS FOR COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.

11. 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 QUANTITY OF SUPPLIERS 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 PERIOD OF FIFTEEN (15) YEARS. MINIMUM. ALL NECESSARY DOCUMENTATION THAT MUST BE PROVIDED TO THE MANUFACTURER SHALL BE FURNISHED BY THE TELECOM CONTRACTOR IMMEDIATELY FOLLOWING FINAL TESTING OF ALL CABLEING. CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER PROVIDES WORK 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 TELECOMMUNICATIONS WORK AND THE PROJECT.

14. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY COMMUNICATIONS ITEM IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED AS A REASON FOR OMITTING THE INSTRUCTION TO FURNISH, INSTALL, AND CONNECT THE ITEM AS PART OF THE TELECOMMUNICATIONS WORK, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.

GENERAL WORK NOTES FOR TELECOM SPACES (OF ROOMS)

1. ALL NEW ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES, KINOFOR FRAMING, CONDUITS AND RISES, SLEEVES WITHIN TELECOM SPACES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

2. ALL NEW RACKS AND CABINETS WITHIN THE TELECOM SPACES SHALL BE FURNISHED AND INSTALLED BY THE TELECOM CONTRACTOR.

3. USE LADDER RACK FOR ANY OVERHEAD CABLE CABLE ROUTING WITHIN THE TELECOM SPACES. SEE PART PLANS FOR LADDER RACK PLACEMENT, SIZE, QUANTITY, AND ORIENTATION.

CONTRIBUTOR SHALL PROVIDE CABLE SPILL-OUTS ("WATERFALLS") ON OVERHEAD LADDER RACK SYSTEMS WITHIN THE TELECOM SPACES WHEREVER CABLEING IS ROUTED FROM THE LADDER RACK TO THE EQUIPMENT RACKS/CABINETS BELOW.

THE BACKBONE SYSTEMS SHALL BE PROVIDED FOR ALL NEW AND EXISTING THROUGH PENETRATIONS OF WALLS, FLOORS, AND CEILING. 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.

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.

THE CONTRACTOR SHALL PROVIDE, OR UTILIZE EXISTING, KINOFOR FRAMING OR VERTICAL LADDER RACK FOR CABLE SUPPORT BEHIND FLOOR-PENETRATING CONDUITS AND SLEEVES IN ALL TELECOM SPACES.

TELECOM CONTRACTOR TO COORDINATE LADDER RACK AND/OR KINOFOR FRAMING SUPPORT SYSTEM LOCATIONS.

ALL ELECTRICAL RECEPTACLES DEDICATED TO ACTIVE EQUIPMENT WITHIN THE TELECOM SPACES SHALL BE WIRED TO EMERGENCY POWER, IF AVAILABLE.

ALL TELECOM SPACES SHALL BE PROVIDED WITH A MINIMUM EQUIVALENT OF 500 lux (500 FOOT-CANDELS) MEASURED AT 1'-0" A.F.F.

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 CABLEING. A MINIMUM 10% SPARE CAPACITY FOR THE AFORESAID HARDWARE SHALL BE INCLUDED.

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.

PATCH PANELS FOR COPPER CABLEING 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 568B WIRING STANDARD. STRAIN RELIEF BRACKETS SHALL BE PROVIDED FOR THE BACK OF EACH PATCH PANEL.

WORK NOTES FOR TELECOMMUNICATIONS WALLFIELDS

1. PLYWOOD BACKBOARDS (BY THE GENERAL CONTRACTOR) SHALL BE PROVIDED ON ALL IDF ROOM PERIMETER WALLS, UNLESS OTHERWISE NOTED. REFER TO THE TELECOM PART PLANS FOR THESE ROOMS FOR ADDITIONAL INFORMATION.

2. PLYWOOD BACKBOARDS WITHIN THE TELECOM SPACES SHALL BE 4" (103 X 8" (X) 3/4") AND GRADED #2 WITH 1/4" SILE PAING OUT. PLYWOOD BACKBOARDS SHALL BE FIRE-RATED AND PAINTED WITH FIRE RETARDANT PAINT. THE FIRE RATING STAMP MUST BE LEGIBLY VISIBLE ON THE BACK OF THE BOARD.

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

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.

4. LUGS, HTAPS, GROUNDING STRIPS, AND BUSBARS SHALL BE UL LISTED AND MADE OF PREMIUM QUALITY THIN-PLATED ELECTROLYTIC COPPER THAT PROVIDES LOW ELECTRICAL RESISTANCE WHILE RESISTING CORROSION. ANTIOXIDANT SHALL BE USED WHEN MAKING BONDING CONNECTIONS.

5. 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. LUGS SHALL MEET LEVEL 3 AS TESTED BY TELESCIA. LUGS WITH INSPIRATION WINDOWS SHALL BE USED IN ALL NON-CORROSIVE ENVIRONMENTS SO THAT CONNECTIONS MAY BE INSPECTED FOR TIGHTNESS AND IDENTIFIED FOR CORRECT COMPLETION.

6. DIE INDEX NUMBERS SHALL BE EMBOSSED ON ALL COMPRESSION CONNECTIONS TO ALLOW FOR CRIMP INSPECTION.

7. CABLE ASSEMBLIES SHALL BE UL LISTED AND CSA CERTIFIED. CABLES SHALL BE A DISTRINGTIVE 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 GROUND/EARTHED TO THE ELECTRICAL SERVICE GROUND ACCORDING TO J-STD-607-A GUIDELINES.

FIRESTOPPING

1. FIRESTOP SYSTEMS SHALL BE PROVIDED FOR ALL THROUGH PENETRATIONS OF TELECOMMUNICATIONS CABLEING, 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 THE FIRE RESISTANCE RATED CONSTRUCTION BARRIERS.

2. FIRE-STOPPING SYSTEMS AND SOLUTIONS SHALL BE IN ACCORDANCE WITH NFPA 70: NATIONAL ELECTRIC CODE 2011 ARTICLES AND THE AUTHORITY HAVING JURISDICTION (AHJ).

3. WHERE NON-MECHANICAL FIRESTOP SYSTEMS ARE UTILIZED, CONTRACTOR TO PROVIDE PRODUCTS THAT UPON CURING DO NO BE QUALITY, DISCOLOR, BRISKLEWOM OR OTHERWISE DETERIORATE OVER TIME FROM EXPOSURE TO ATMOSPHERIC MOISTURE, SWEATING PIPES, PONDING WATER, OR OTHER FORMS OF MOISTURE CHARACTERISTIC DURING OR AFTER CONSTRUCTION.

4. ALL WALL PENETRATIONS FOR CABLE TRAY/LADDER RACK TRANSITIONS SHALL UTILIZE SLEEVES FOR HORIZONTAL CABLEING 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, ANNUAL SPACE REQUIREMENTS, AND FIRE RATING INVOLVED FOR EACH SEPARATE INSTANCE.

6. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CERTIFY THAT ALL THROUGH PENETRATIONS FOR COMMUNICATIONS CABLEING HAVE BEEN SATISFACTORILY SEALED AND FIRE-STOPPED.

CROSS-CONNECTING AND PATCHING SCOPE OF WORK NOTES

1. 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 BIDDING SHALL BE CONSIDERED FOR THE IDF ROOMS:

5' - 25%  
7' - 50%

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 CONFER WITH OWNER PATCH CORD COLORS FOR VARIOUS NETWORK APPLICATIONS (VOICE, DATA, FAX, 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 TIES.

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 CABLEING AND OUTLET NOTES

1. THE TELECOM RISER CABLEING SYSTEM SHALL PROVIDE INTERCONNECTIONS BETWEEN EACH OF THE IDF ROOMS. THE RISER SYSTEM INFRASTRUCTURE SHALL CONSIST OF FIBER OPTIC AND COPPER CABLEING, MECHANICAL TERMINATIONS, MAIN AND INTERMEDIATE CROSS-CONNECTS, AND PATCH CORDS USED FOR CROSS-CONNECTION.

2. ALL FIBER RISER CABLEING SHALL BE RISER 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.

3. BRIDGED TAPS, SPLITTERS, SPLICES, ETC. SHALL NOT BE USED AS ANY OF BACKBONE CABLEING INSTALLATION. ALL BACKBONE CABLEING SHALL BE HOMERUN FROM IDF ROOM TO IDF ROOM IN A STRAIGHT TOPOLOGY.

4. ALL HORIZONTAL CABLEING SYSTEM SHALL COMPLY WITH THE GENERAL PERFORMANCE STANDARDS OF TIA/EIA-568-C.0, WHEN TESTED ACCORDING TO THE TEST PROCEDURES OF THIS STANDARD.

5. ALL HORIZONTAL QUAD SHIELDED 80-8 COAXIAL CABLEING FOR CATV USE SHALL BE TERMINATED WITH "T" TYPE COMPRESSION CONNECTORS AT BOTH ENDS. THE COAXIAL CABLEING SHALL BE ROUTED BACK TO THE WALLBACK SERVING THE OUTLET AND LEFT COILED WITH 10' OF SLACK FOR CONNECTION TO CATV TUNERS (PERFORMED BY OTHERS).

6. ALL HORIZONTAL COPPER CABLEING SHALL BE WHITE IN COLOR AND SHALL BE PLENUM RATED 4-PAIR CATEGORY 6 UTP. ALL HORIZONTAL COPPER CABLEING SHALL BE TERMINATED ON CATEGORY 6 UTP PATCH PANELS INSTALLED IN THE TELECOM OF ROOMS. ALL HORIZONTAL COPPER CABLEING AND ALL ASSOCIATED COMPONENTS (I.E. CONNECTORS, FACEPLATES, PATCH PANELS, PATCH CORDS, ETC.) SHALL BE PRODUCTS OF THE FOLLOWING MANUFACTURER'S WARRANTED SOLUTIONS: HUBBELL/MODAWK.

7. ALL NEW HORIZONTAL COPPER DATA CABLEING SHALL BE TESTED AND CERTIFIED TO MEET MANUFACTURER'S CAT 6 PERFORMANCE CRITERIA AND SHALL BE COVERED UNDER THE MANUFACTURER'S WARRANTY.

8. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG SHALL BE PROVIDED WITH THE APPROPRIATE CABLEING AS DESCRIBED IN THIS SECTION.

9. ALL LOCATIONS IDENTIFIED ON THE FLOOR PLANS WITH A TELECOMMUNICATIONS SYMBOL SHALL BE PROVIDED WITH THE APPROPRIATE CABLEING AS DESCRIBED IN THIS SECTION (EVEN IF NO OUTLET TAG HAS BEEN PROVIDED).

HORIZONTAL CABLEING ROUTED THROUGH ACCESSIBLE CEILING OR UNDER RAISED FLOOR SHALL BE SUPPORTED USING J-HOOKS OFF OF CEILING SUPPORT HANGERS OR RAISED FLOOR JOISTS. CABLE SHALL BE SUPPORTED BETWEEN J-HOOKS TO ELIMINATE CABLE STRESS. MAXIMUM CABLE SAG BETWEEN J-HOOK SUPPORTS SHALL NOT EXCEED 1/2" BRANDES SHALL NOT EXCEED 3" IN DIAMETER, AND SHOULD BE TIED WRAPPED NO MORE THAN 6 FEET ON CENTER.

10. HORIZONTAL CABLEING THAT ROUTES EXPOSED, THAT ROUTES WITHOUT CABLE TRAY SUPPORT, OR THAT BRANCHES OFF OF CABLE TRAY AND/OR KINOFOR 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 1/2" BRANDES SHALL NOT EXCEED 3" IN DIAMETER, AND SHOULD BE TIED WRAPPED NO MORE THAN 6 FEET ON CENTER.

11. 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 ELECTROCOM BACK BOX.

12. UNLESS OTHERWISE NOTED, ALL TELECOM OUTLETS SHALL BE PROVIDED WITH A 1-1/4" CONDUIT STRIP (PROVIDED BY ELECTRICAL CONTRACTOR), IF REQUIRED BY FIELD CONDITIONS, HOME RUN CONDUITS SHALL BE PROVIDED TO THE TELECOM IDF ROOM.

13. ALL COMMUNICATIONS IN-NEEDS TO FURNITURE SYSTEMS SHALL BE COORDINATED WITH THE FURNITURE SYSTEM VENDOR.

14. CONTRACTOR TO PROVIDE WHITE SELF-LAMINATING ADHESIVE LABELS, MACHINE PRINTABLE WITH A LASER PRINTER, FOR ALL HORIZONTAL CABLEING AND HORIZONTAL CABLEING TERMINATION LOCATIONS (FACEPLATE, PATCH PANELS, ETC.).

15. REFER TO THE TELECOMMUNICATIONS DETAILS SHEETS FOR FACEPLATE DETAILS, JACK POSITION ASSIGNMENTS, AND MORE INFORMATION.

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

DIVISION OF RESPONSIBILITY

CATEGORY DESCRIPTION T.C. CLIENT G.C. E.C.

IT PATHWAYS CONDUITS, SLEEVES, PULLBOXES, STUB-UPS, BACKBOXES, FRAMED WALL OPENINGS

IT PATHWAYS FURNITURE INFEEDS FROM FLOOR

IDF ROOM FITOUT PLYWOOD BACKBOARDS

IDF ROOM FITOUT POWER FOR EQUIPMENT RACKS

IDF ROOM FITOUT GROUNDING BUSBAR

IDF ROOM FITOUT GENERAL CONVENIENCE POWER

IDF ROOM FITOUT TELECOM EQUIPMENT RACKS, LADDER RACK

IDF ROOM FITOUT HORIZONTAL/VERTICAL WIRE MANAGERS

IDF ROOM FITOUT COPPER/FIBER PATCH PANELS

IDF ROOM FITOUT COPPER/FIBER PATCH CORDS

IDF ROOM EQUIPMENT LAN EQUIPMENT (SWITCHES, SERVERS, ETC.)

IDF ROOM EQUIPMENT UNANT EQUIPMENT (ROUTERS, FIREWALLS, ETC.)

IDF ROOM EQUIPMENT UNINTERRUPTIBLE POWER SUPPLIES (UPS)

FLOOR FITOUT VOICE/DATA COMMUNICATIONS CABLEING

FLOOR FITOUT CABLEING CONNECTORS & FACEPLATES

FLOOR FITOUT WORKSTATION CABLES (PATCH CORDS)

FLOOR FITOUT WIRELESS ACCESS POINTS

FLOOR FITOUT PHONES, PCL, WORKSTATIONS

F = FURNISH T.C. = TELECOM CONTRACTOR

I = INSTALL G.C. = GENERAL CONTRACTOR

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

TELECOMMUNICATIONS LIST OF DRAWINGS

DWG. # DRAWING NAME

T-001 TELECOMMUNICATIONS GENERAL NOTES, SYMBOLS AND DRAWINGS LIST

T-100 TELECOM LEVEL 01 PLAN

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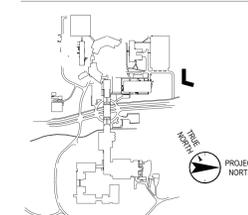
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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT

Plot Date: 11/17/21

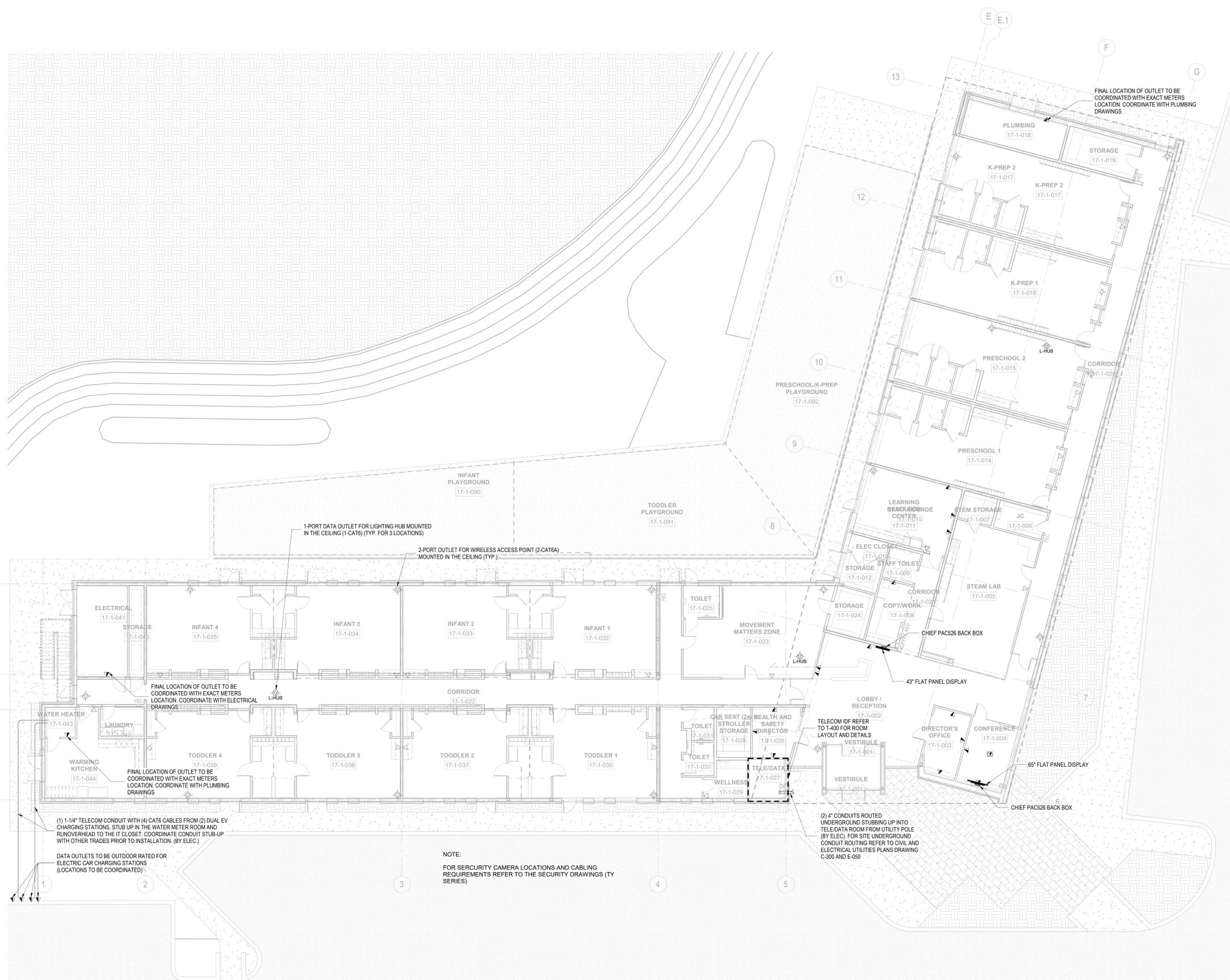
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Professional Seal and Signature

Vendor Name: GENSLER  
Vendor Project No.: 006.3608.000  
Discipline: Drawn By: Author  
**TELECOM LEVEL 01 PLAN**

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

**T-100**



1-PORT DATA OUTLET FOR LIGHTING HUB MOUNTED IN THE CEILING (1-CAT6) (TYP. FOR 3 LOCATIONS)

2-PORT OUTLET FOR WIRELESS ACCESS POINT (2-CAT6A) MOUNTED IN THE CEILING (TYP.)

FINAL LOCATION OF OUTLET TO BE COORDINATED WITH EXACT METERS LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS

FINAL LOCATION OF OUTLET TO BE COORDINATED WITH EXACT METERS LOCATION. COORDINATE WITH PLUMBING DRAWINGS

(1) 1-1/4" TELECOM CONDUIT WITH (4) CAT6 CABLES FROM (2) DUAL EV CHARGING STATIONS. STUB UP IN THE WATER METER ROOM AND RUN OVERHEAD TO THE IT CLOSET. COORDINATE CONDUIT STUB-UP WITH OTHER TRADES PRIOR TO INSTALLATION. (BY ELEC.)

DATA OUTLETS TO BE OUTDOOR RATED FOR ELECTRIC CAR CHARGING STATIONS (LOCATIONS TO BE COORDINATED)

NOTE:  
FOR SECURITY CAMERA LOCATIONS AND CABLING REQUIREMENTS REFER TO THE SECURITY DRAWINGS (TY SERIES)

(2) 4" CONDUITS ROUTED UNDERGROUND STUBBING UP INTO TELECOM ROOM FROM UTILITY POLE (BY ELEC). FOR SITE UNDERGROUND CONDUIT ROUTING REFER TO CIVIL AND ELECTRICAL UTILITIES PLANS DRAWING C-300 AND E-550

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

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.



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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

Architect

**Gensler**

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone  
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

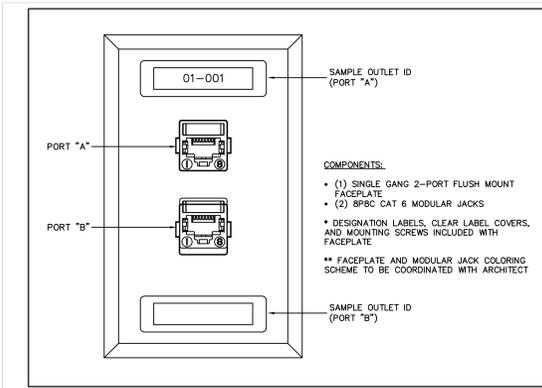
Cosentini Associates  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

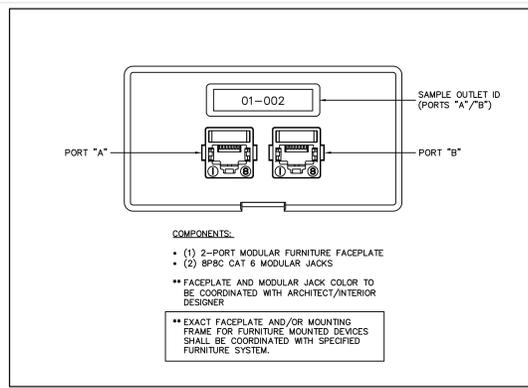
JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-2102 Fax

Landscape Architect

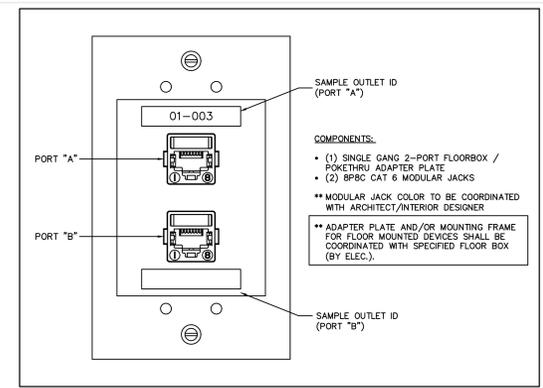
Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax



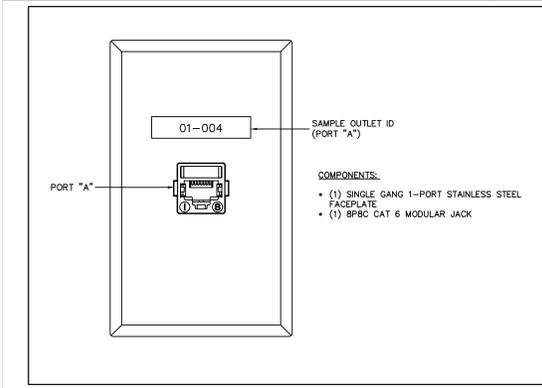
2-PORT VOICE/DATA OUTLET (NOT TO SCALE) 01



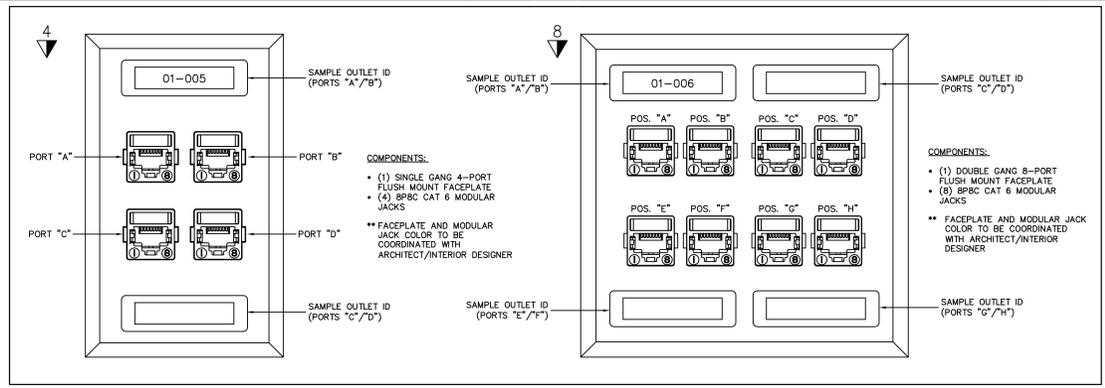
FURNITURE MTD. 2-PORT VOICE/DATA OUTLET (NOT TO SCALE) 02



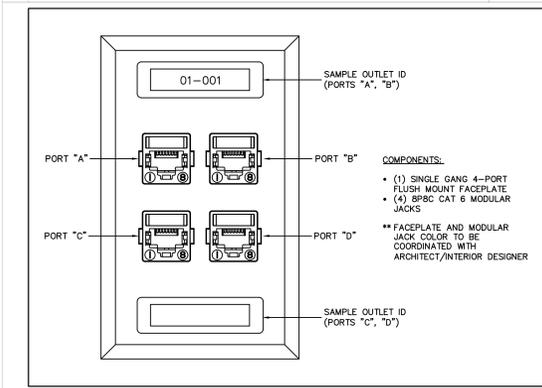
FLOOR MTD. 2-PORT VOICE/DATA OUTLET (NOT TO SCALE) 03



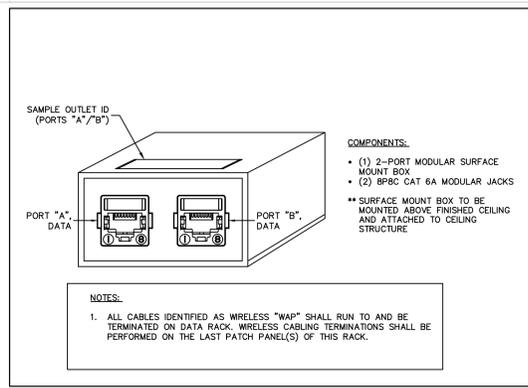
WALL MTD. 1-PORT VOICE OUTLET (NOT TO SCALE) 04



WALL MTD. 4-PORT AND 8-PORT DATA OUTLETS (NOT TO SCALE) 05

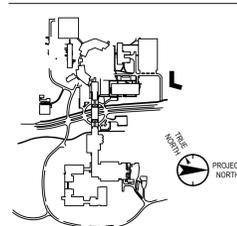


WALL MTD. 4-PORT DATA OUTLET FOR AV (NOT TO SCALE) 06



CEILING MOUNTED 2-PORT WIRELESS ACCESS POINT OUTLET (NOT TO SCALE) 07

Key Plan



No. Date Description

0 05 20 2022 ISSUED FOR PERMIT

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Scale: N.T.S. Floor:

T-500



