

	CONTRACTOR ABBREVIATION KEY
ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

SYMBOL:	EQUIPMENT	DESCRIPTION:	NOTE
	LIST ABBREV.:	DESCRIPTION:	
CR	AC-CR-W	ACCESS CONTROL CREDENTIAL READER	3.
ADO	AC-ADO-W	ACCESS CONTROL AUTOMATIC DOOR OPENER	
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	3.
DC	AC-DC	ACCESS CONTROL DOOR CONTACT	3.
REX	AC-REX	ACCESS CONTROL REQUEST TO EXIT	3.
AAM	AR-AMM-W	AREA OF RESCUE - ASSISTANCE MASTER STATION	
AAC	AR-AAC-W	AREA OF RESCUE - ASSISTANCE CALL STATION	
WP1	AV-WP1-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 1	
IRS	AV-IRS-C	AUDIO/VISUAL INFRA-RED SENSOR (CEILING)	
TP	AV-TP-W	AUDIO/VISUAL TOUCH PANEL (WALL)	
S 1	AV-S1-C	PERFORMANCE AUDIO SPEAKER - TYPE 1 (CEILING)	
C#-WAP	SC-IO-CWAP	WIRELESS ACCESS POINT INFORMATION OUTLET (CEILING)	1.
WAP	SC-WAP-C	WIRELESS ACCESS POINT DEVICE/ENCLOSURE (CEILING)	
C#	SC-IO-W	INFORMATION OUTLET (WALL)	1.
W	SC-WP-W	WALL PHONE	
© C#	SC-IO-F	INFORMATION OUTLET (FLOOR)	1., 2.
НН	<u>SC-HH-1</u>	HANDHOLE	
AV V	<u>AV-RI-W</u>	AUDIO/VISUAL ROUGH-IN (WALL)	
WIDTH >	(HEIGHT	CABLE TRAY, CHANNEL TRAY, BASKET	
	(HEIGHT	TRAY LADDER RACK	
	TERø C	CONDUIT	
	∍	CONDUIT DOWN	
	<u>_</u> U	CONDUIT UP OR UP/DOWN	
<u> </u>	 3	CONDUIT SLEEVE	
5		CONTINUATION	

GENERAL NOTES:

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL NOTES:

"C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL FLOOR PLANS AND ELECTRICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T500 FOR

ADDITIONAL INFORMATION.

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		TECHNOLOGY ABBREVIATION KEY
	ABBR:	DESCRIPTION:
	AFF	ABOVE FINISHED FLOOR
	BFC	BELOW FINISHED CEILING
	С	CONDUIT
	J-BOX	JUNCTION BOX
	SIM	SIMILAR
	TYP	TYPICAL
	UNO	UNLESS NOTED OTHERWISE
	+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
	EF-#	ENTRANCE FACILITY
	MDF	MAIN DISTRIBUTION FRAME
	TR-#	TELECOMMUNICATIONS ROOM
	TE	TELECOM ENCLOSURE
	OBG	OLBRICH GARDENS

CITY OF MADISON INFORMATION TECHNOLOGY

SUGGESTED MATRIX OF RESPONSIBILITY										
ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:						
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.						
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.							
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.							
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.						
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.						
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.							
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.							
LADDER RACK	T-SERIES	T.C.	T.C.	5.						
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.						
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.						
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.							
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.							
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.						
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.							
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.							
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.						
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.							

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED
- IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN. UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW

<u>TE</u> I	TELECOM ROOM REFERENCES										
TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER								
AV CLOSET	6/T200	1/T101	113								
EXISTING MDF	1/T200	1/T101	18								
TR-1	2/T200	1/T101	102								
WORKROOM	5/T200	1/T111	34								

TECHNOLOGY GENERAL NOTES:

- 'EQUIPMENT LIST ABBREVIATION" 2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULEAND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- MOUNT ORIENTED HORIZONTALLY MOUNT IN CASEWORK
- MOUNT IN SURFACE RACEWAY

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAIL ON
- THIS PAGE FOR ADDITIONAL INFORMATION. 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS.CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON
- 3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY."THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED
- 4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS.PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION
- LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT. 5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT.ALL MOUNTING OF TELECOMMUNICATION
- ADVANCE BY THE OTHER CONTRACTOR. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS.ALL
- SEALED INTO OPENINGS. 7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF
- 8. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF
- SPECIFICATION SECTIONS27 05 28 AND 27 11 00 FOR APPROVED MANUFACTURERS AND
- 10. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED

T000 TECHNOLOGY COVER SHEET

- T111 GREENHOUSE FLOOR PLAN LEVEL 1 TECHNOLOGY
- T300 DETAILS TECHNOLOGY
- T400 RISER DIAGRAMS TECHNOLOGY

THIS CONTRACTOR.

- T401 RISER DIAGRAMS TECHNOLOGY T500 SCHEDULES - TECHNOLOGY

- 1. ###-###INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS
- MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- MOUNT IN MODULAR FURNITURE
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

- WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN
- OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR.ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR
- THROUGH-PENETRATION FIRESTOPS. REFER TO 27 05 03 AND 28 05 03 FOR ADDITIONAL
- INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING. CONSTRUCTION.REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY
- 9. ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO INSTALLATION REQUIREMENTS.
- WHEN CONDUIT IS SPECIFIED EXPOSED.

TECHNOLOGY SHEET INDEX

- TD001 SITE DEMOLITION PLAN TECHNOLOGY
- T001 SITE PLAN TECHNOLOGY T101 LEARNING CENTER FLOOR PLAN - LEVEL 1 - TECHNOLOGY
- T102 LEARNING CENTER FLOOR PLAN LEVEL 2 TECHNOLOGY
- T200 ENLARGED PLANS TECHNOLOGY

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01.10.2018 DESIGN DEVELOPMENT SUBMISSION 03.30.2018 70% CD SUBMISSION 05.04.2018 90% CD SUBMISSION 06.01.2018 BID ISSUE 06.04.2018 PERMIT ISSUE

PROJECT NO. 2017016 PROJECT PHASE **BID DOCUMENTS**

TECHNOLOGY

DONPAU

BHASON

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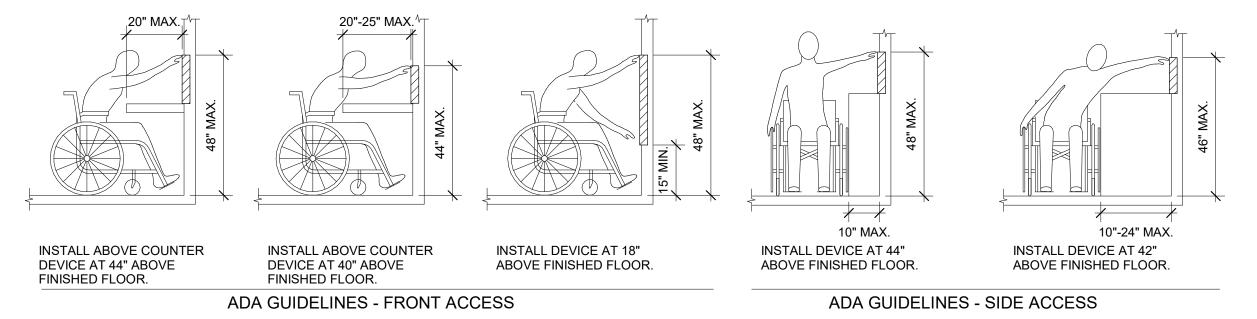
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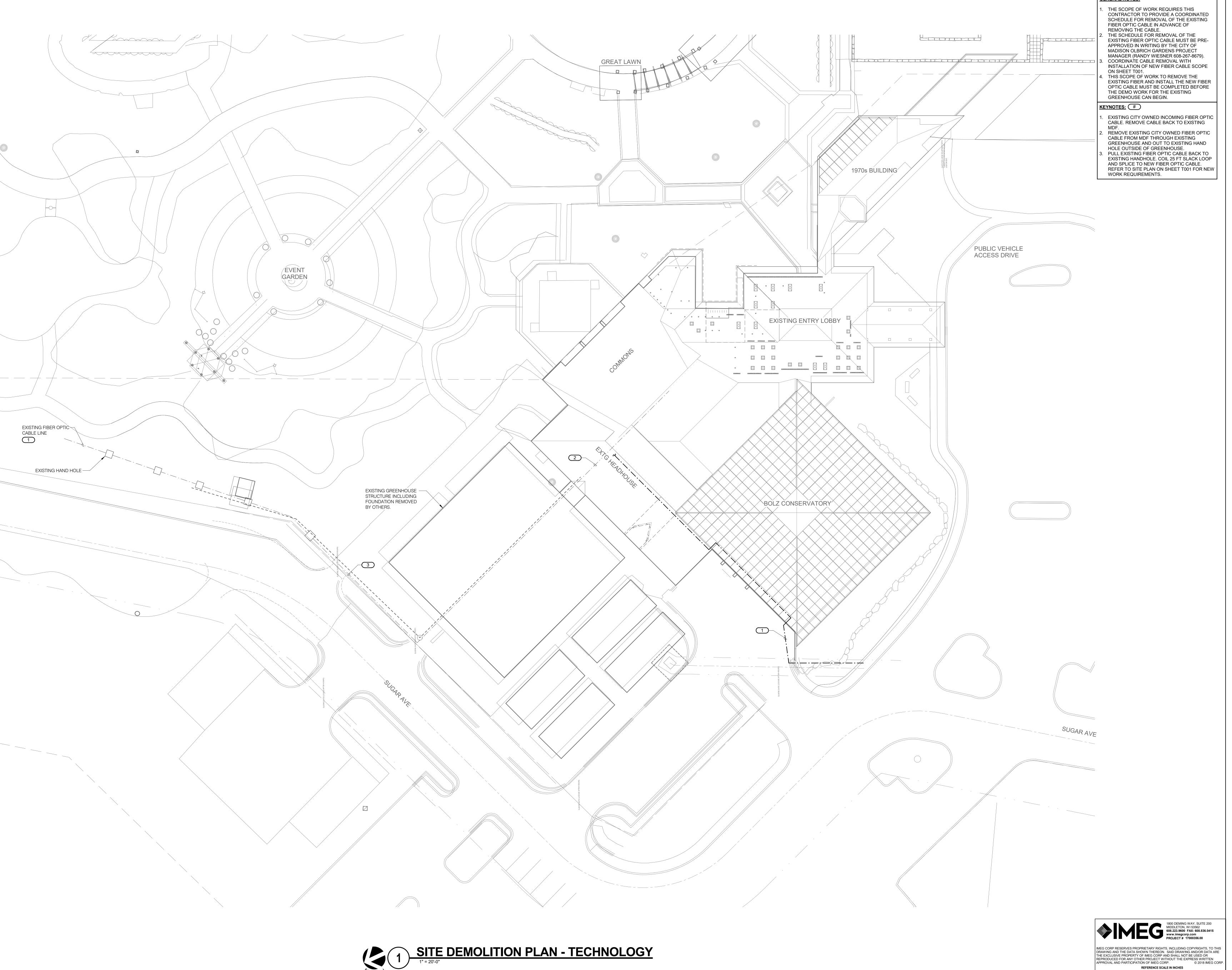
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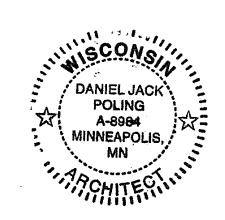
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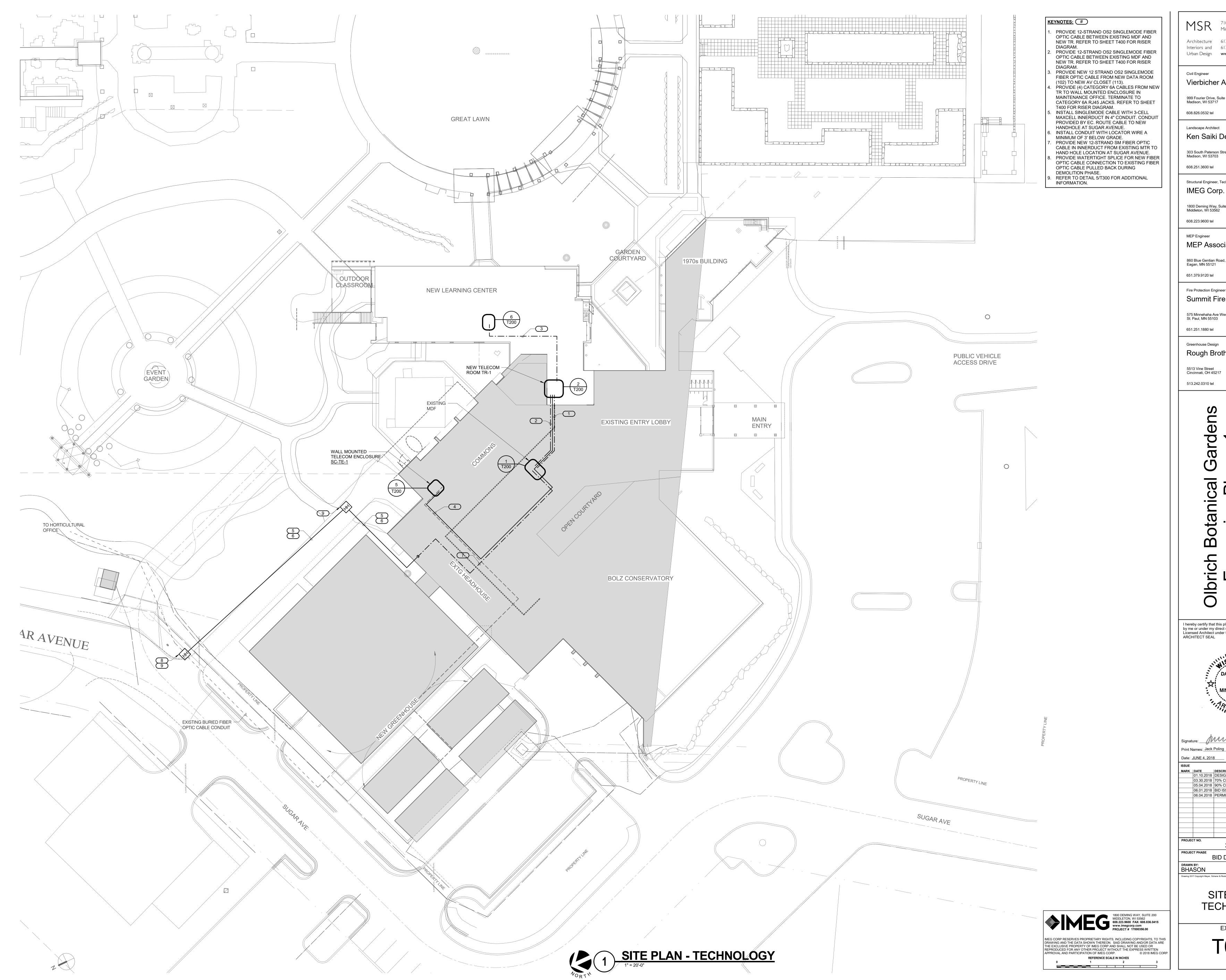
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1 2 SITE DEMOLITION PLAN -TECHNOLOGY

> EXHIBIT O TD001



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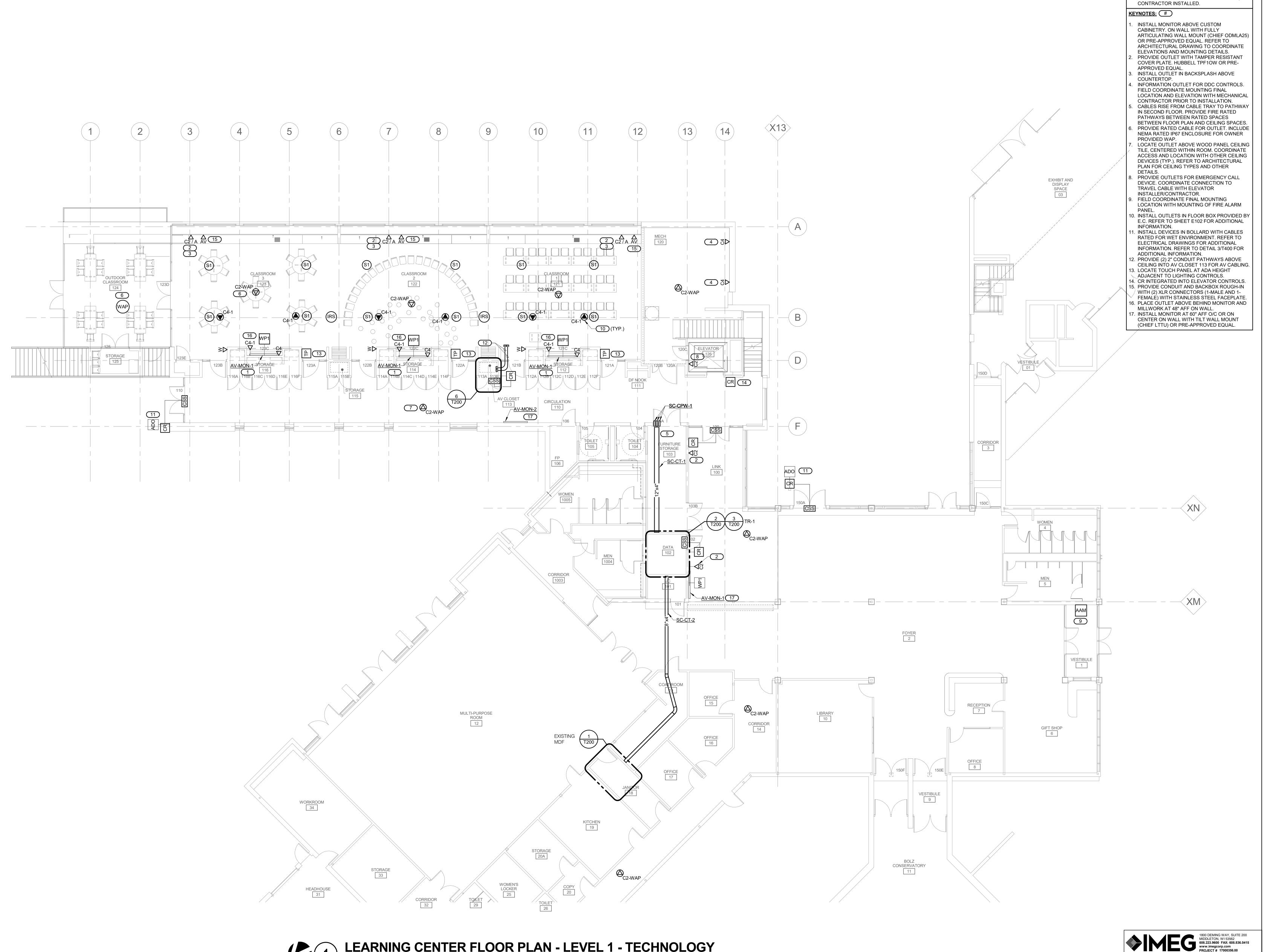
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> SITE PLAN -**TECHNOLOGY**

> > EXHIBIT O T001



LEARNING CENTER FLOOR PLAN - LEVEL 1 - TECHNOLOGY

MSR 710 South 2nd Street, 8th Floor Minneapolis, Minnesota 55401–2282 ALL CABLES ON THIS SHEET TERMINATE IN NEW TELECOM ROOM TR-1 DATA 102. REFER TO SHEET T001 FOR FIBER OPTIC

GENERAL NOTES:

CABLE ROUTING.

REFER TO SHEET T400 FOR RISER DIAGRAMS.

AV EQUIPMENT CONTRACTOR FURNISHED,

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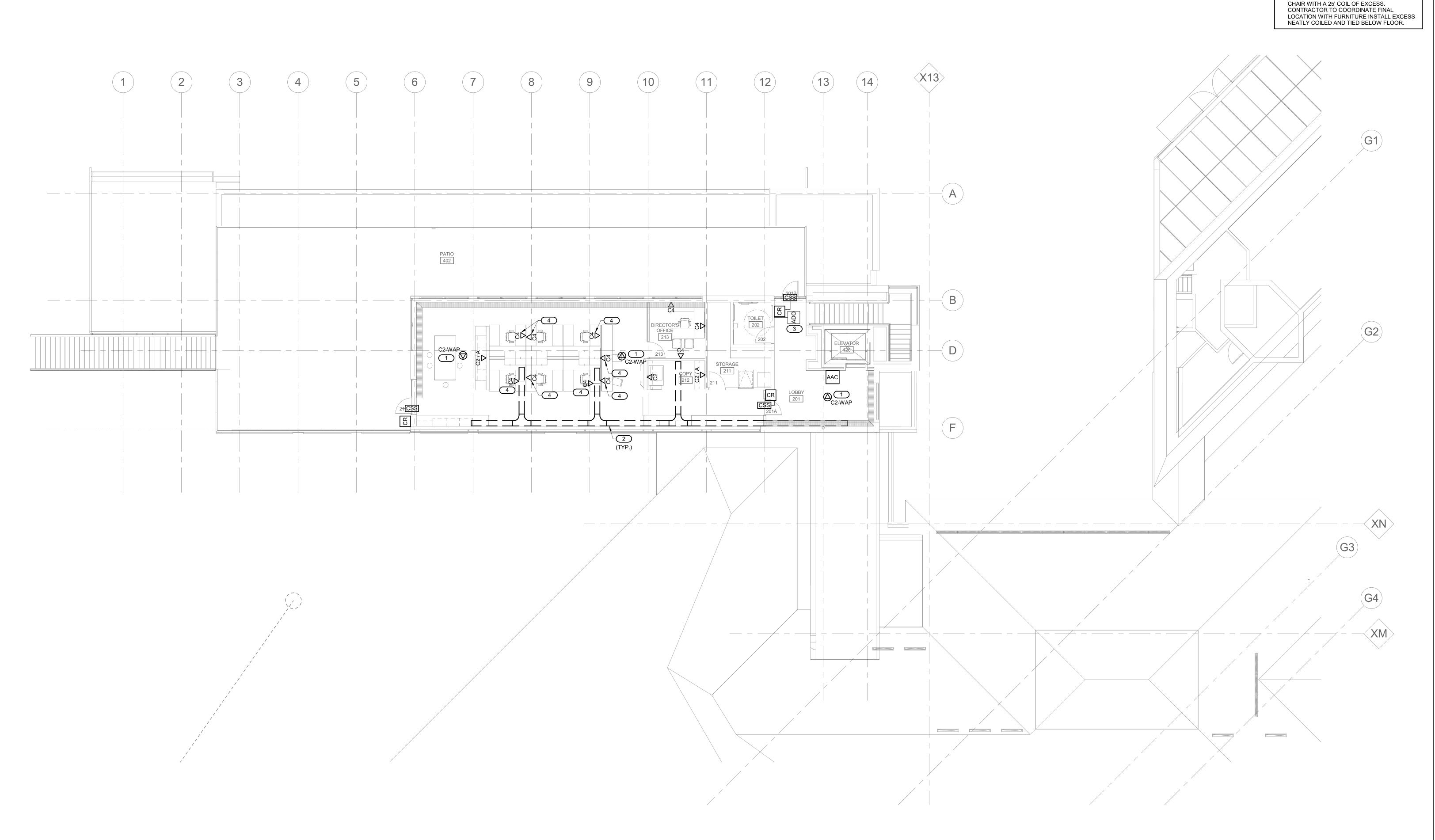
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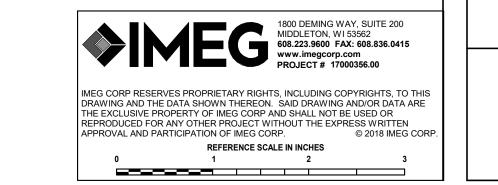
FLOOR PLAN -LEVEL 1 -TECHNOLOGY

> EXHIBIT O T101



LEARNING CENTER FLOOR PLAN - LEVEL 2 - TECHNOLOGY

1/8" = 1'-0"



GENERAL NOTES:

- ALL CABLES ON THIS SHEET TERMINATE IN
 NEW TELECOM ROOM TR-1 DATA 102 ON FIRST
 FLOOR.
- FLOOR.
 CABLE PATHWAYS PROVIDED BY E.C. UNDER
 RAISED FLOOR

DROP IN CABLE TRAY <u>SC-CT-1</u> UNDER FLOOR.

REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO DETAIL

PROVIDE CABLES FOR C4 OUTLET FOR EACH

3/T400 FOR ADDITIONAL INFORMATION.

RAISED FLOOR. BACKBOX AND CONDUIT PATHWAYS BY E.C.

KEYNOTES:

INFORMATION.

CABLES PATHWAYS FOR WAP DEVICES FED TO CEILING VIA GLULAM CHANNELS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL

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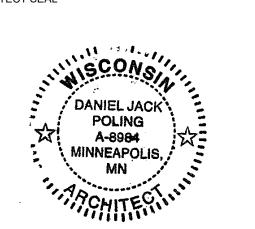
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ansion Phase 1

PW Project #8162

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Signature:

Print Names: Jack Poling

Date: JUNE 4, 2018 License No: A-8984

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PROJECT NO.
2017016

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BHASON DONIDALL

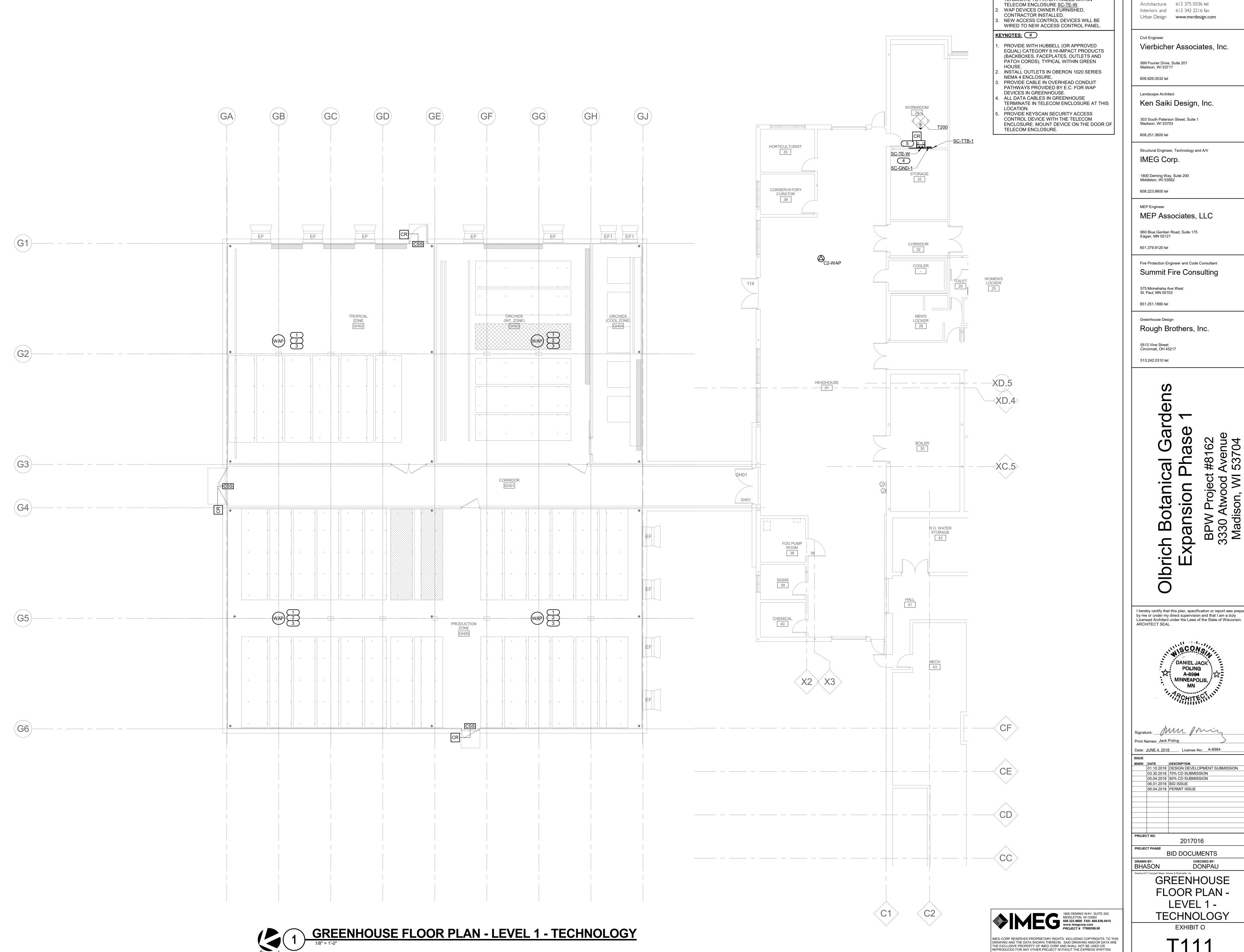
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LEARNING CENTER

FLOOR PLAN -LEVEL 2 -TECHNOLOGY

T102



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Vierbicher Associates, Inc.

GENERAL NOTES:

WAP AND DATA OUTLETS ON THIS SHEET TERMINATE TO PATCH PANELS WITHIN

Summit Fire Consulting

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Date: <u>JUNE 4, 2018</u> License No: <u>A-8984</u>

 MARK
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 DESCRIPTION

 01.10.2018
 DESIGN DEVELOPMENT SUBMISSION

 03.30.2018
 70% CD SUBMISSION

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BID DOCUMENTS CHECKED BY:
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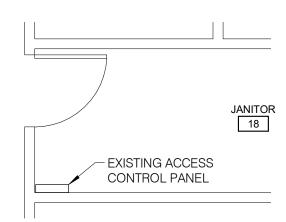
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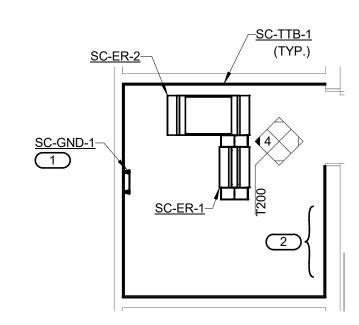
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3. REFER TO 4/T401 FOR TECHNOLOGY BONDING RISER DIAGRAM.

1. REFER TO SITE DEMOLITION PLAN ON SHEET TD001 FOR SCOPE OF WORK RELATED TO FIBER OPTIC CABLE DEMO AND REINSTALL.

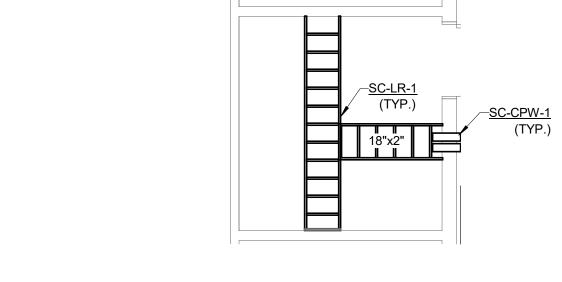




1. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TR-1 DATA 102 TECHNOLOGY ROOM ON SITE WITH OWNER'S IT STAFF PRIOR 2. REFER TO DETAIL 2/T300 FOR TR-1 DATA 102 TECHNOLOGY ROOM - PATHWAY LAYOUT.

KEYNOTES:

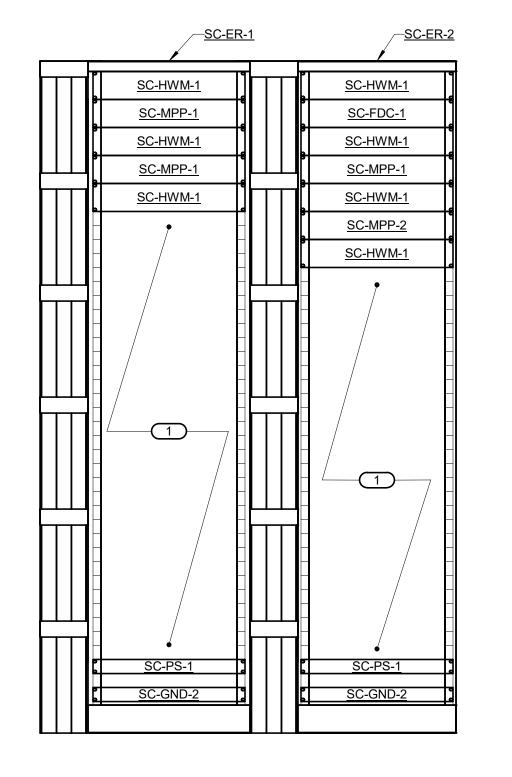
1. REFER TO 2/T300 BONDING BUSBAR DETAIL FOR ADDITIONAL INFORMATION. INSTALL AT A HEIGHT OF 60" AFF TO THE TOP OF THE GROUND BAR. 2. 4'X4' SPACE RESERVED FOR ACCESS CONTROL PANEL. TOP OF THE PANEL NOT TO EXCEED 72" AFF WHEN MOUNTED ON WALL.



TR-1 DATA 102 TECHNOLOGY ROOM - EQUIPMENT LAYOUT 1/4" = 1'-0" NOTES:

COORDINATE ALL DEVICE LOCATIONS AND MOUNTING LOCATIONS IN TR-1 DATA 102 TECHNOLOGY ROOM ON SITE WITH OWNER'S IT STAFF PRIOR TO INSTALLATION.

2. INSTALL ALL HORIZONTAL CABLE RUNWAY IN TR-1 DATA 102 TECHNOLOGY ROOM AT A HEIGHT OF 90" AFF. 3. FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 3/T300 AND 6/T300 FOR ADDITIONAL INFORMATION.

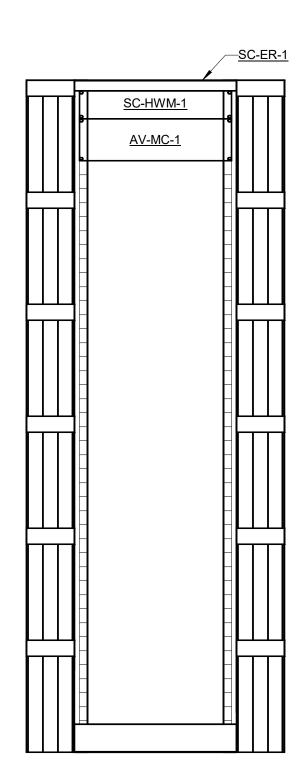


TR-1 DATA 102 TECHNOLOGY ROOM - RACK ELEVATION

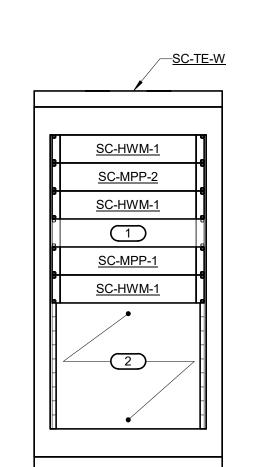
- NOTES:

 1. CONFIRM EXACT LOCATION OF ALL RACK COMPONENTS WITH USER AGENCY'S INFORMATION SYSTEMS GROUP ON SITE PRIOR TO
- 2. FURNISH AND INSTALL CABLE RUNWAY RADIUS DROPS AT ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY. REFER TO 6/T300 AND 3/T300 FOR ADDITIONAL INFORMATION. 3. CONTRACTOR FURNISHED AND INSTALLED EQUIPMENT IN TR-1 DATA 102 TECHNOLOGY ROOM WITH ON SITE ELECTRICAL CONTRACTOR

<u>KEYNOTE:</u>
1. SPACE RESERVED FOR OWNER PROVIDED EQUIPMENT.

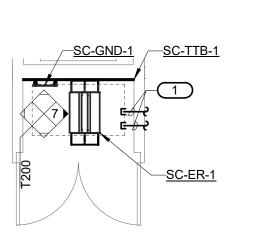


7 AV CLOSET 113 - RACK ELEVATION

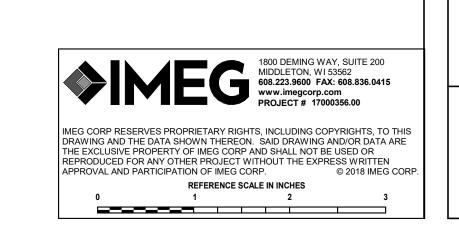


WORKROOM 34 - TELECOM ENCLOSURE ELEVATION

KEYNOTE:1. POWER REQUIRED FOR OWNER PROVIDED NETWORK SWITCH BY E.C.2. SPACE RESERVED FOR OWNER PROVIDED EQUIPMENT.





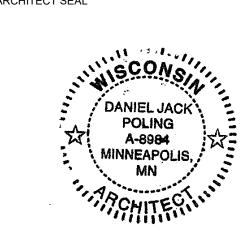


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 DESCRIPTION

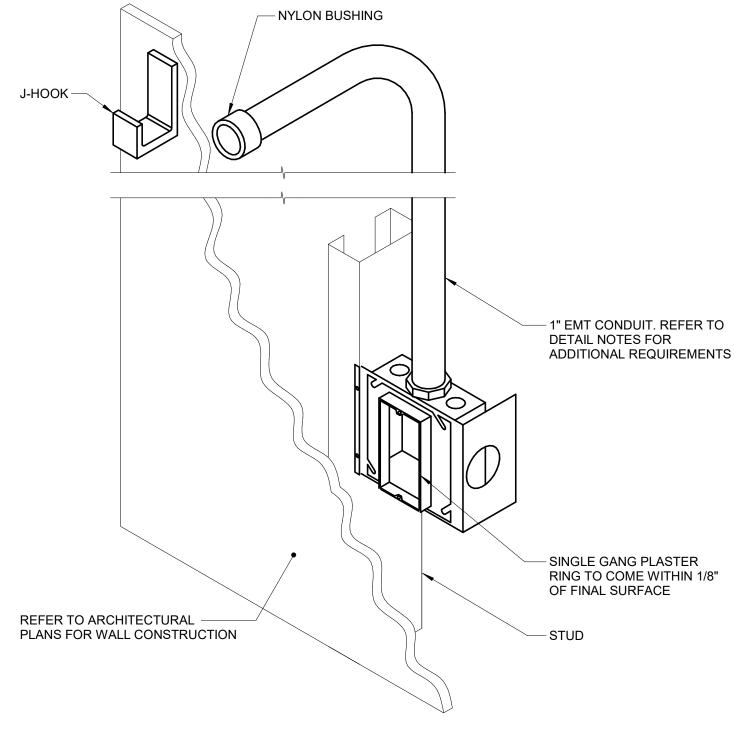
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PROJECT NO. 2017016 PROJECT PHASE BID DOCUMENTS CHECKED BY:
DONPAU BHASON

ENLARGED PLANS -TECHNOLOGY

EXHIBIT O

T200

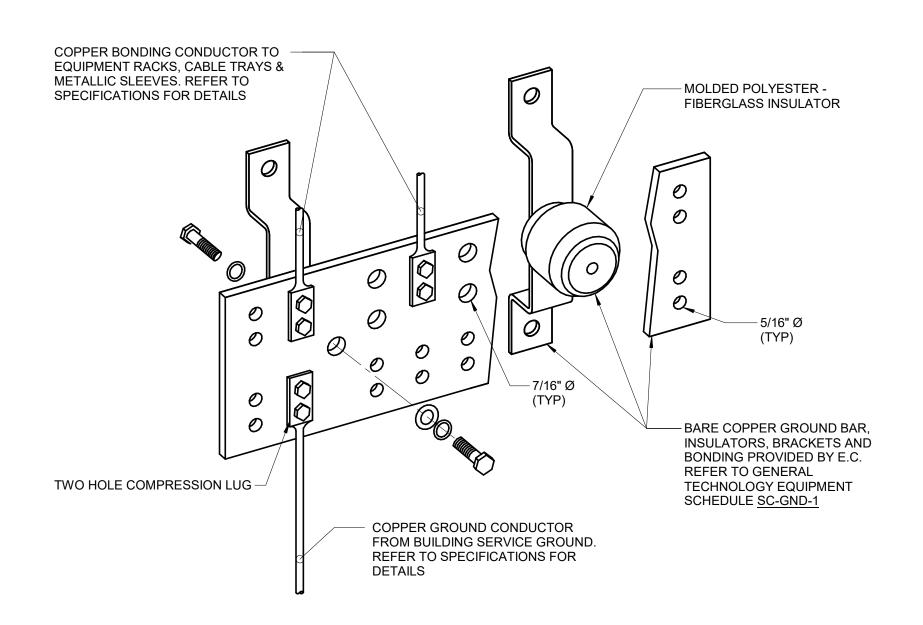


TECHNOLOGY ROUGH-IN MOUNTING DETAIL

CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.

RESPONSIBILITY FOR ADDITIONAL INFORMATION.

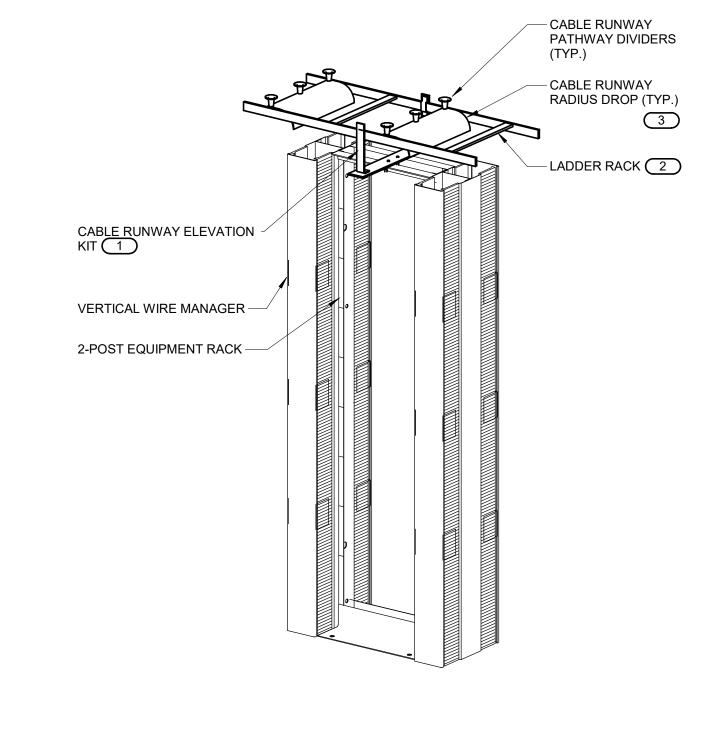
- 1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
- . WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED
- 3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT. 4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



BONDING BUS BAR DETAIL

- NOTES:

 1. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE SC-GND-1 FOR WIDTH REQUIREMENTS.
- 2. REFER TO 2/T401 FOR TYPICAL TELECOM ROOM BONDING FLOW



LADDER RACK MOUNTING DETAIL

NOTES:

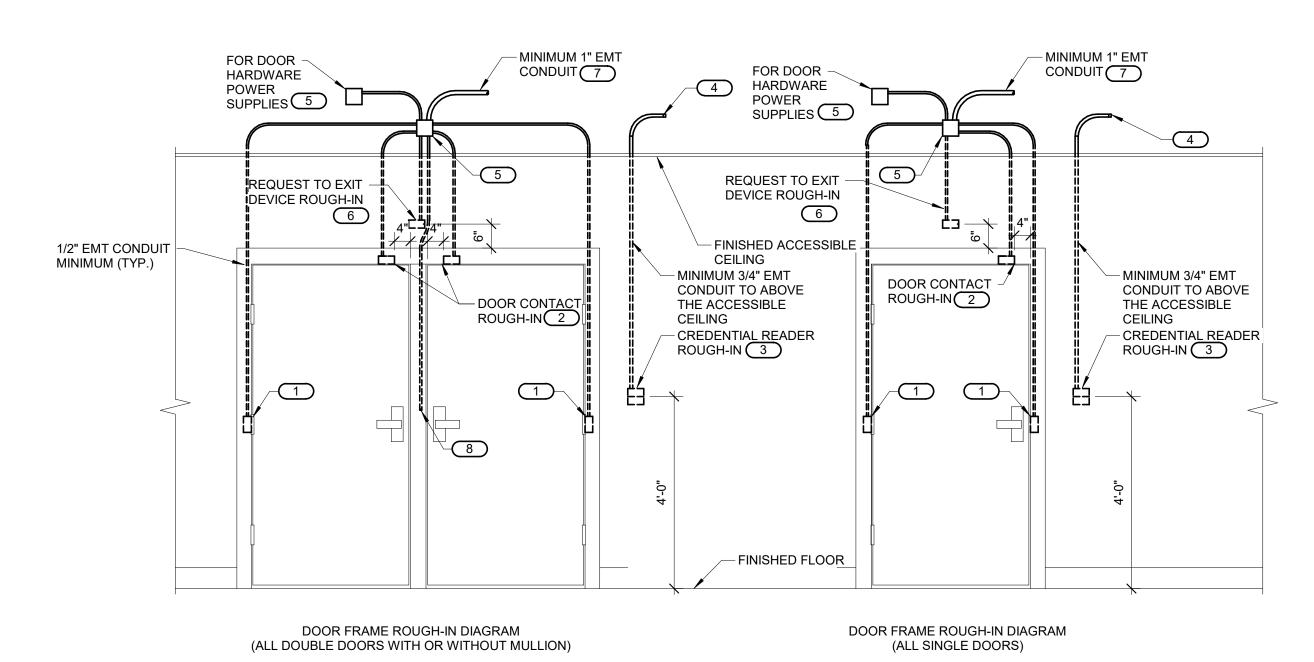
1. ALL LADDER RACK AND ACCESSORIES TO BE INSTALLED FOR A COMPLETE INSTALLATION SHALL BE FROM THE SAME MANUFACTURER.

KEYNOTES:

1. MOUNT THE LADDER RACK NO MORE THAN +6" ABOVE THE FLOOR MOUNTED RACK. ADJUST THE CABLE RUNWAY ELEVATION KIT AS REQUIRED.

2. REFER TO THE INDIVIDUAL PATHWAY DRAWINGS FOR THE LADDER RACK SIZE. 3. A MINIMUM OF (1) RADIUS DROP INTO EACH VERTICAL WIRE MANAGER, REFER TO THE

INDIVIDUAL TELECOM ROOM LAYOUTS, PATHWAY LAYOUTS, AND RACK ELEVATIONS FOR QUANTITY OF WIRE MANAGERS AND ADDITIONAL INFORMATION.



CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL

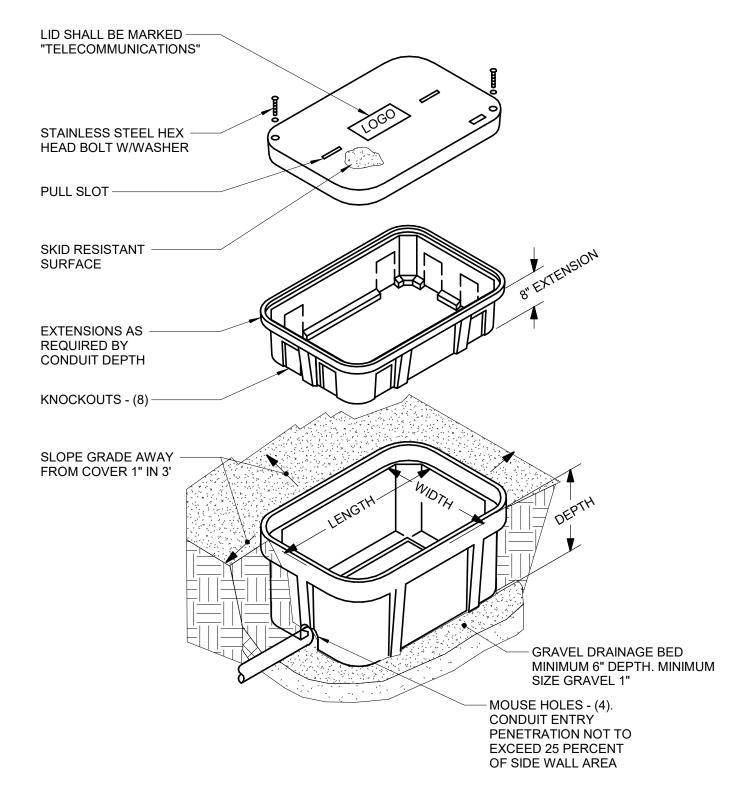
- NOTES:
 1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE CONTROLLED SECURITY SCHEME ROUGH-IN REQUIREMENTS OF THE DOORS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS
- FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED. 2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL CONTROLLED SECURITY SYSTEM DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND CONTROLLED SECURITY DEVICES AND CABLING PRIOR TO INSTALLATION. 3. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY.
- CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR CABLING PROPERLY RATED FOR THE CEILING DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY

FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING

- 5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL CONTROLLED SECURITY SCHEME ROUGH-INS PER PROJECT
- REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 6. REFER TO THE CONTROLLED SECURITY SCHEME RISER DIAGRAM ON 3/T400 FOR CABLING REQUIREMENTS AND THE CONTROLLED SECURITY SCHEME SCHEDULE ON T500 FOR ADDITIONAL INFORMATION. 7. INSTALLATION SHALL INCLUDE ALL POWER REQUIRED FOR SYSTEM OPERATION INCLUDING +120VAC. REFER TO THE SUGGESTED MATRIX OF SCOPE
- <u>KEYNOTES:</u>
 1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH-IN SHALL BE PROVIDED WHETHER THE CURRENT SECURITY SCHEME UTILIZES THEM OR NOT. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
- 2. ALL DOOR POSITION SWITCHES ARE REQUIRED TO BE RECESSED UNLESS OTHERWISE NOTED. ELECTRIC HINGE MONITORS ARE NOT AN ACCEPTABLE REPLACEMENT FOR THE RECESSED DOOR POSITION SWITCH. 3. DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING. REFER TO FLOOR PLAN(S) FOR ACTUAL CREDENTIAL READER TYPE AND ROUGH-IN
- 4. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURE SIDE OF THE DOOR. CONDUIT SHALL ROUTE TO NEAREST CABLE TRAY. PROVIDE A NYLON BUSHING ON CONDUIT END. 5. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURE SIDE OF THE DOOR ABOVE ACCESSIBLE
- CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX. 6. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. REFER TO THE CONTROLLED SECURITY SCHEME SCHEDULE ON T500 FOR DOORS THAT REQUIRE THIS ROUGH-IN.

7. CONDUIT SHALL ROUTE TO THE NEAREST TELECOM ROOM OR TO NEAREST CABLE TRAY. CONTRACTOR SHALL PROVIDE A NYLON BUSHING ON

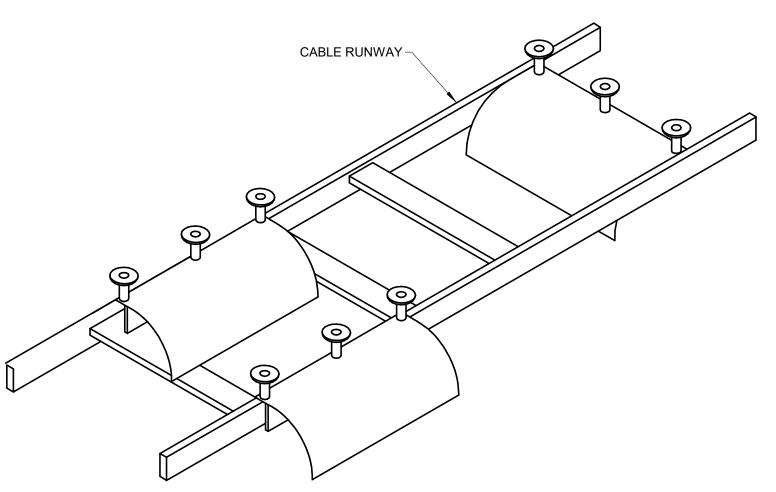
- 8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR
- LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.



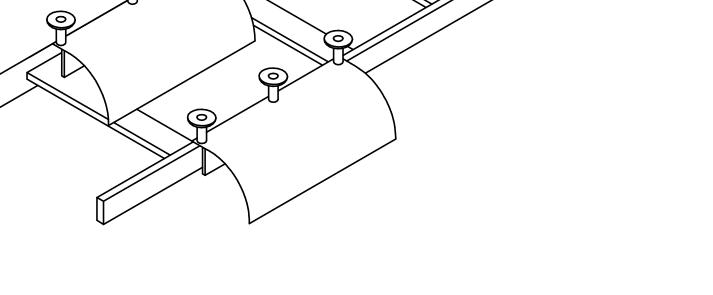
EXTERIOR HAND HOLE DETAIL

- NOTES:

 1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES. 2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE. 3. REFER TO SITE DEMOLITION PLAN ON SHEET TD001 FOR SCOPE OF WORK RELATED TO FIBER OPTIC CABLE DEMO AND REINSTALL.



CABLE RUNWAY RADIUS DROP



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1. PROVIDE CABLE RUNWAY RADIUS DROPS FOR ALL AREAS WHERE CABLE TRANSITIONS ON TO OR OFF OF HORIZONTAL CABLE RUNWAY.

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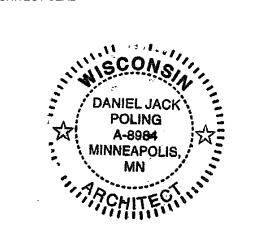
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ch <u>qo</u>

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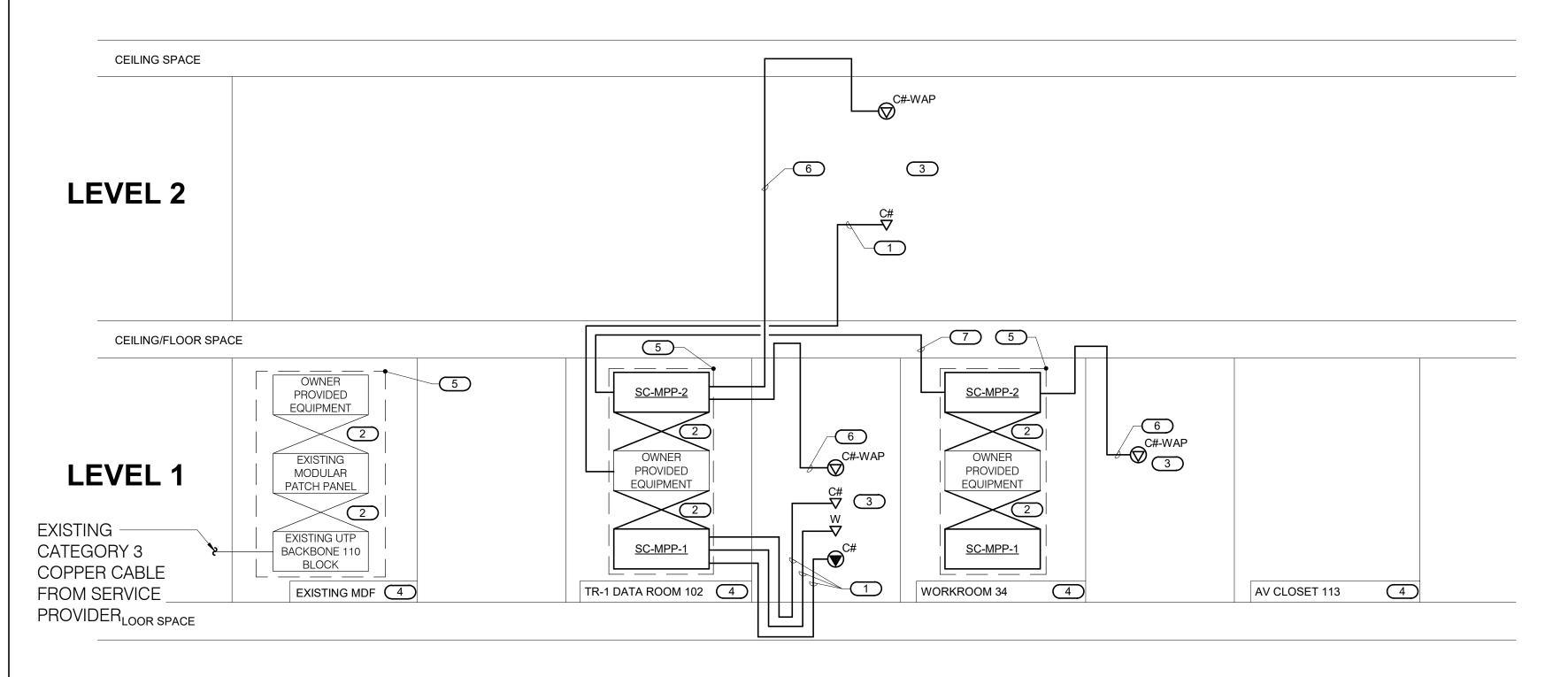
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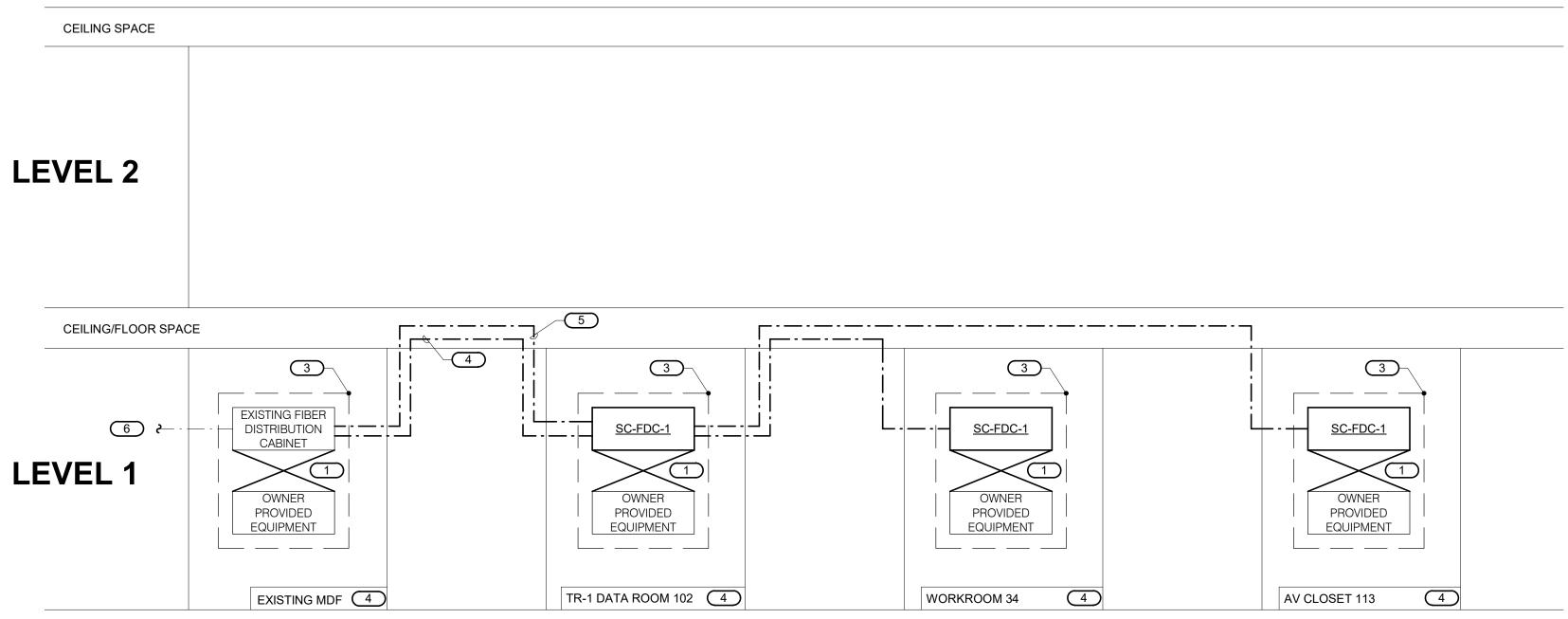
2017016 PROJECT PHASE **BID DOCUMENTS**

DONPAU BHASON

> **DETAILS** -**TECHNOLOGY**

EXHIBIT O





TECHNOLOGY FIBER OPTIC RISER DIAGRAM

NOTES:

1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY

THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS

RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. INFORMATION

OUTLETS SHOWN ARE TYPICAL OF THE INFORMATION OUTLETS IN THE AREA SHOWN. REFER TO FLOOR

3. REFER TO SITE DEMOLITION PLAN ON SHEET TD001 FOR SCOPE OF WORK RELATED TO FIBER OPTIC CABLE

3. RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX

6. NEW SINGLEMODE FIBER OPTIC CABLE SPLICED TO EXISTING CABLE IN HANDHOLE AT SUGAR AVENUE. REFER

TO SHEETS TD001 AND T001 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL

<u>KEYNOTES:</u>
1. ALL CROSS-CONNECT WIRE AND UTP COPPER PATCH CABLES FURNISHED AND INSTALLED BY THIS

REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.

4. 12-STRAND OS2 SINGLEMODE FIBER OPTIC CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL

5. 12-STRAND OS2 SINGLEMODE FIBER OPTIC CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL

PLANS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE SPECIFIC ROUTING INFORMATION.

NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CONTRACTOR. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

DEMO AND REINSTALL

REQUIREMENTS.

REQUIREMENTS.

ON THE COVERPAGE FOR LOCATION.

TECHNOLOGY COPPER RISER DIAGRAM

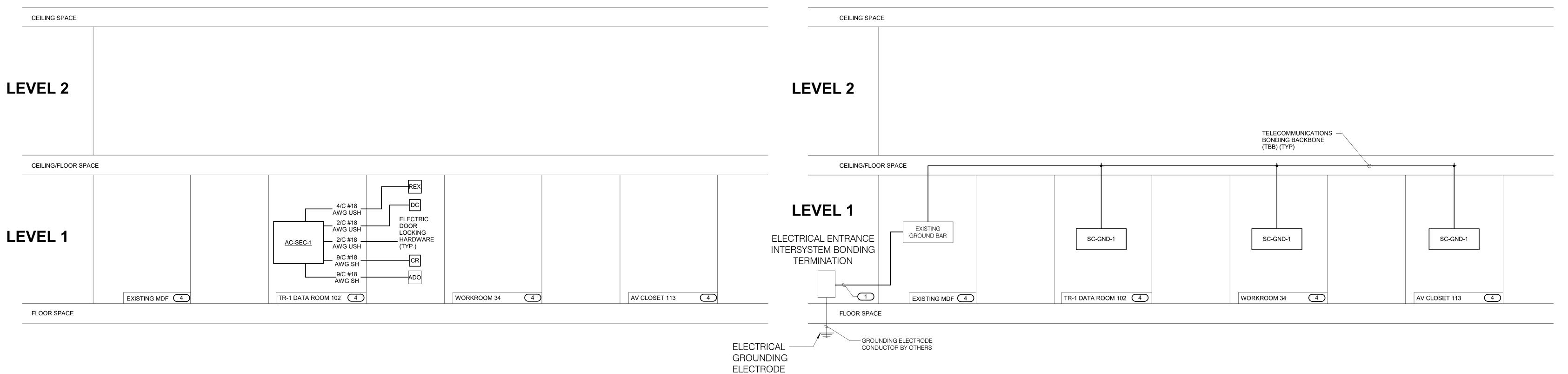
NOTES:

1. THIS RISER DIAGRAM SHOWS ONLY A SMALL PORTION OF THE LARGER EXISTING FACILITY AND SHOWS ONLY NEW AND EXISTING WORK DIRECTLY RELATED TO THIS PROJECT. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. INFORMATION OUTLETS SHOWN ARE TYPICAL OF THE INFORMATION OUTLETS IN THE AREA SHOWN REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF INFORMATION OUTLETS AND MORE SPECIFIC

KEYNOTES:
1. 24 GAUGE 4-PAIR CATEGORY 6 UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO

ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- SPECIFICATIONS FOR REQUIREMENTS. 2. ALL CROSS-CONNECT WIRE AND UTP COPPER PATCH CABLES FURNISHED AND INSTALLED BY THIS CONTRACTOR. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION
- . INFORMATION OUTLET LOCATIONS SHOWN ARE TYPICAL. REFER TO FLOOR PLANS FOR ACTUAL QUANTITY AND LOCATIONS OF INFORMATION OUTLETS. REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T500 FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET CONFIGURATION TYPE AND FOR OTHER INDIVIDUAL REQUIREMENTS FOR EACH OUTLET **CONFIGURATION TYPE**
- 4. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS. 5. RACK AS DEFINED ON THE TELECOM ROOM LAYOUT. REFER TO THE TELECOM ROOM REFERENCES MATRIX ON THE COVERPAGE FOR LOCATION.
- 6. 24 GAUGE 4-PAIR CATEGORY 6A UNSHIELDED TWISTED PAIR CABLE, PLENUM RATED. REFER TO
- SPECIFICATIONS FOR REQUIREMENTS. PROVIDE (4) CATEGORY 6A CABLES FROM NEW TR TO WALL MOUNTED ENCLOSURE IN MAINTENANCE OFFICE. TERMINATE TO CATEGORY 6A RJ45 JACKS. REFER TO SITE PLAN ON SHEET T001 FOR ADDITIONAL INFORMATION.



SYSTEM

FLOOR SPACE

ACCESS CONTROL RISER DIAGRAM

THIS DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL DEVICE QUANTITIES OR LOCATIONS. ALL DEVICES SHOWN ARE TYPICAL AND MAY NOT REFLECT EVERY WIRE OR CONNECTION THAT MUST BE MADE. WIRING SHOWN ON THIS DIAGRAM REFLECTS THE REQUIREMENTS FOR THE BASIS OF DESIGN MANUFACTURER. ANY CHANGES REQUIRED DUE TO THE T.C.'S SELECTION OF AN ALTERNATE MANUFACTURER, INCLUDING ANY POWER REQUIRED FOR FIELD LOCATED SECURITY CONTROLLERS, SHALL BE INCLUDED IN THE T.C.'S BID.

1. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM

TECHNOLOGY BONDING RISER DIAGRAM

THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALI CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES, REFER TO ELOOR PLANS AND ENLARGED ELOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

- 2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS
- FOR ADDITIONAL REQUIREMENTS. 3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUG EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
- 4. REFER TO 2/T401 FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM. 5. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T001 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION INFORMATION.

BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS. 2. REFER TO COVERPAGE AND FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.

BONDING CONDUC	TOR SIZING SCHEDULE
CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG
LESS THAN 13'	6
14' - 20'	4
21' - 26'	3
27' - 33'	2
34' - 41'	1
42' - 52'	1/0
53' - 66'	2/0
GREATER THAN 66'	3/0

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> St. Paul, MN 55103 651.251.1880 tel

575 Minnehaha Ave West

Summit Fire Consulting

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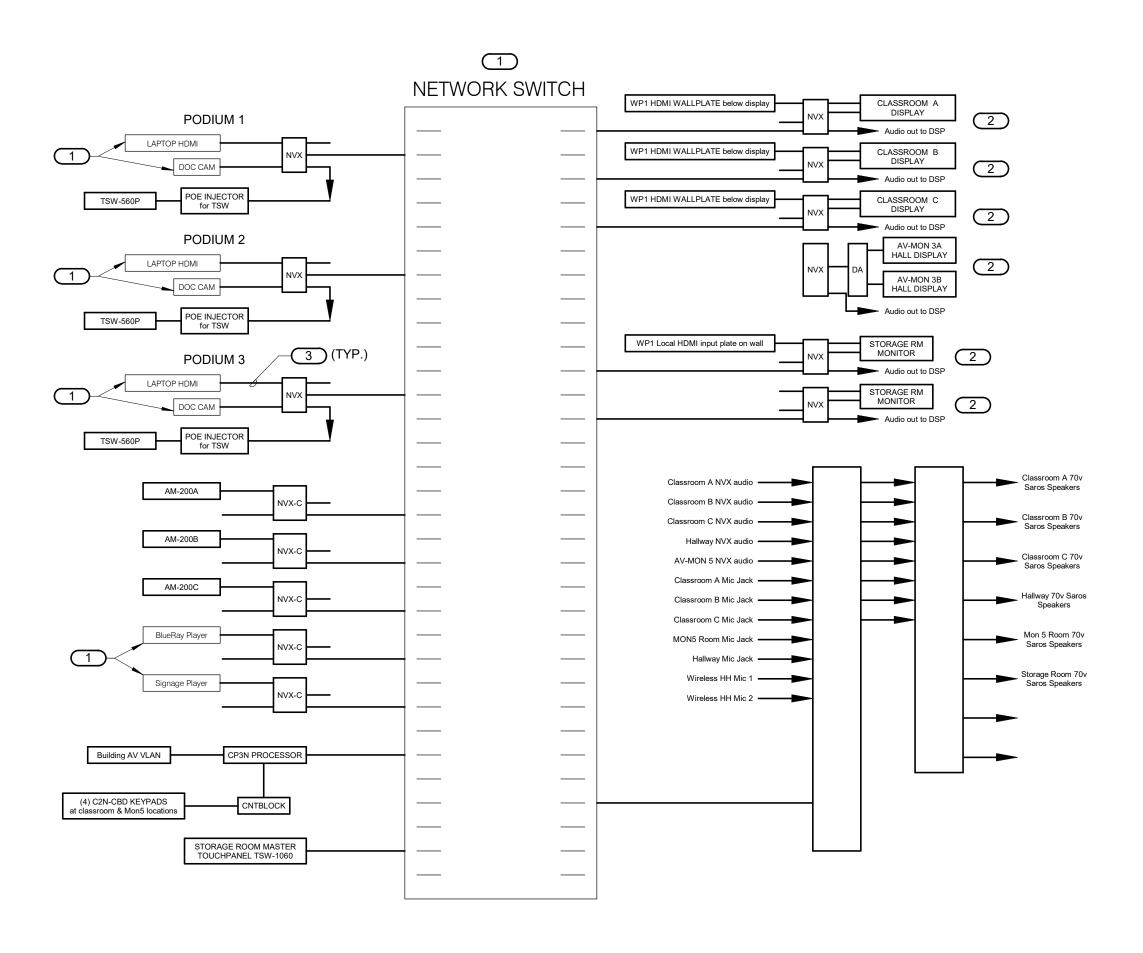
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> RISER DIAGRAMS -**TECHNOLOGY**

> > **EXHIBIT O**



CLASSROOM AV RISER DIAGRAM

- NOTES:

 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR

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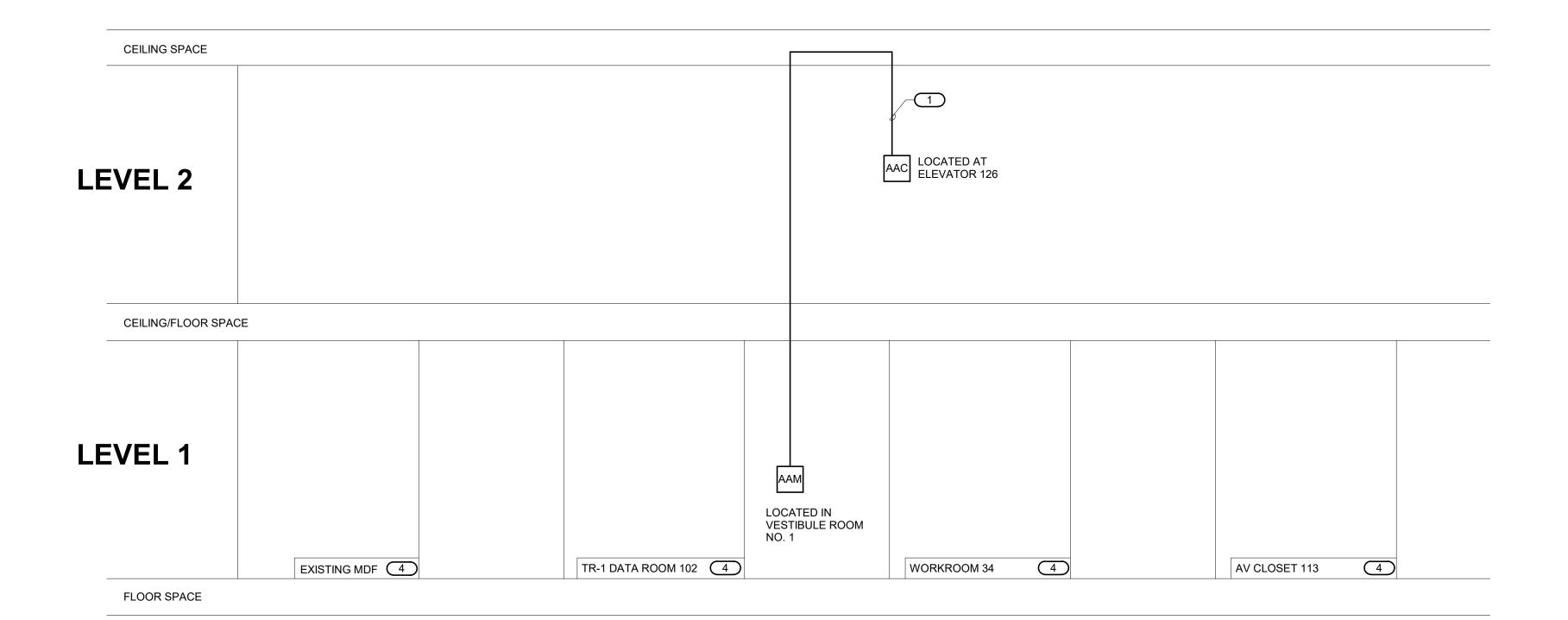
 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR

 1. THIS ROUTING OR THE ROUTING QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
- 2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.

KEYNOTES:

1. OWNER FURNISHED OWNER INSTALLED.

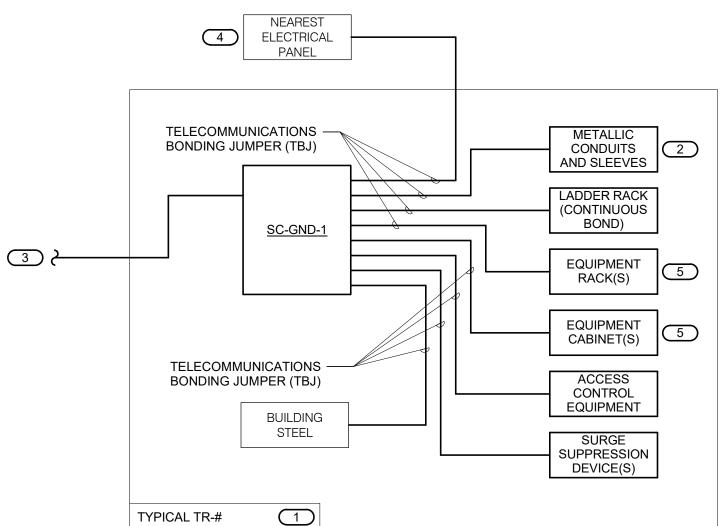
2. OWNER FURNISHED CONTRACTOR INSTALLED. 3. CONTRACTOR FURNISHED CONTRACTOR INSTALLED.



AREA OF RESCUE RISER DIAGRAM

- NOTES:

 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS, THIS RISER IS SHOWN CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPES. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS ADDITIONAL REQUIREMENTS.
- <u>KEYNOTES:</u>
 1. ONE (1) 18 GAUGE 2-CONDUCTOR CABLE, PLENUM RATED. REFER TO SPECIFICATIONS



TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

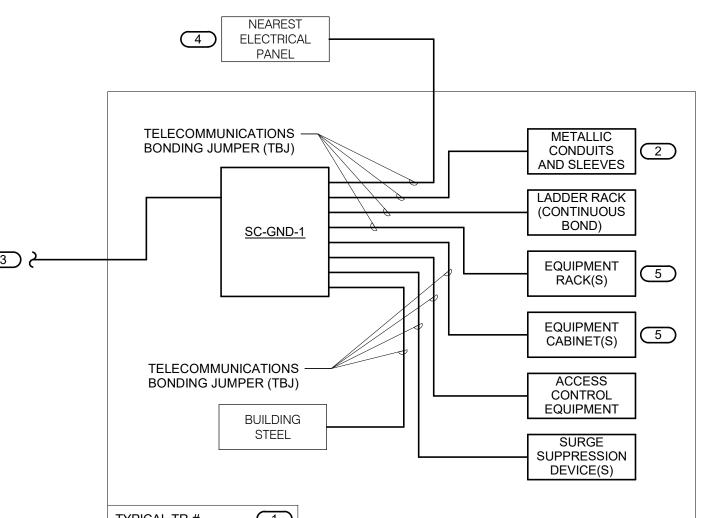
- NOTES:

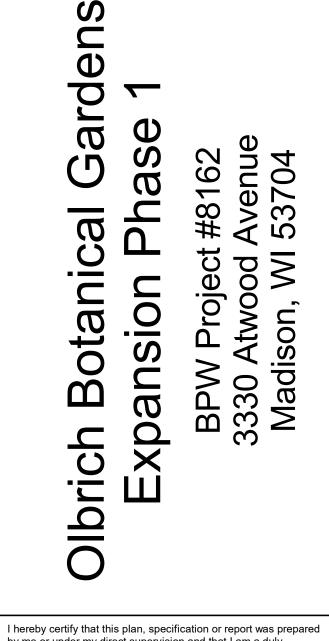
 1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM

 1. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS FLOW DIAGRAM

 2. THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW AND CONDUCTOR TYPE ALL CONNECTIONS AND SYSTEM DEVICES IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR
- ADDITIONAL REQUIREMENTS. 3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
- 4. REFER TO 2/T300 FOR BONDING BUS BAR DETAIL AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SC-GND-1.
- KEYNOTES:

 1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON DRAWING T000 FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION . INCLUDES HORIZONTAL AND VERTICAL CONDUIT SLEEVES FOR TECHNOLOGY CABLING.
- 3. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT), TO EXISTING ELECTRICAL ENTRANCE INTERSYSTEM BONDING TERMINATION. REFER TO 4/T400 FOR TECHNOLOGY BONDING RISER DIAGRAM FOR CONTINUATION AND ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATION. 5. PROVIDE <u>SC-GND-2</u> RACK MOUNT TECHNOLOGY BONDING BUSBAR AT EACH EQUIPMENT RACK.





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by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin. DANIEL JACK POLING A-8984 MINNEAPOLIS, Print Names: Jack Poling

Date: <u>JUNE 4, 2018</u> License No:<u>A-8984</u> MARKDATEDESCRIPTION01.10.2018DESIGN DEVELOPMENT SUBMISSION 03.30.2018 70% CD SUBMISSION 05.04.2018 90% CD SUBMISSION 06.01.2018 BID ISSUE 06.04.2018 PERMIT ISSUE PROJECT NO. 2017016 PROJECT PHASE **BID DOCUMENTS**

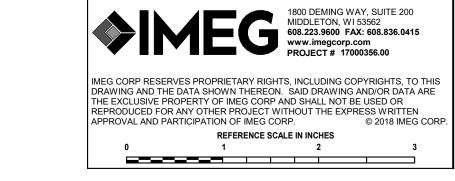
> RISER DIAGRAMS -**TECHNOLOGY**

DONPAU

BHASON

EXHIBIT O

T401



		INF	ORN	IATIO	O NC	UTLET SCHEDULE	
SINGLE GANG WALLPLAT	<u>ES</u>						
45.45			0.5.4	-		45 .5	
1-Port Fa	ceplate		2-Port	Faceplate	· —	4-Port Faceplate	
IDENTIFICA	ATION		IDEN	ITIFICATION		IDENTIFICATION	PAIR 3 PAIR 2 PAIR 1 PAIR 4
1			1		\	1 2 3 4	1 2 3 4 5 6 7 8 WO O WG BL WBL G WBRBR
REFER TO SPECIFICATION IDENTIFICATION REQUIRE	NS FOR	-VP)	IDEN	ITIFICATION	FAC	MBER INDICATES CEPLATE POSITION	ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT
——————————————————————————————————————		17.)			(TY	P.)	LEGEND
NOTES:							LEGEND
1. PROVIDE REMOVABLE	BLANK IN	SERT(S) F	OR ALL U	JNUSED F	PORTS.	RMATION ON LABELING REQUIREMENTS	CAT6 CAT6A BL45
Z. REFER TO SPECIFICAL	TONS SEC	,110N 27 C	15 53 FUR	ADDITIO	NAL INFO	RMATION ON LABELING REQUIREMENTS	. CAT6A CAT6A RJ-45 BL BLANK FILLER MODUL
SCHEDULE NOTES:							HDMI HDMI CONNECTOR
						INT. PROVIDE A 20' SLACK COIL AT THE ELESS SURVEY.	
		FACEPL	ATE POR	T IDENTIF	ICATION		
	ATE PORTS	N 1 JACK TYPE	N 2 JACK TYPE	N 3 JACK TYPE	N 4 JACK TYPE		
CONFIGURATION	FACEPLA	POSITION	POSITION	POSITION	POSITION	NOTE	:s
C2	2	CAT6	BL				
C2-WAP	2	CAT6A	CAT6A			1.	
C4	4	CAT6	CAT6	CAT6	CAT6		
C4-1	4	CAT6	CAT6	HDMI	HDMI		
W	1	CAT6					

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ELECTRO	NIC DO	OOR I	HARD	WAR	E SUC	CH AS	ELE	CTRI	C ST	RIKE	S, E	LEC	RIC	LATO	H RE	ETR/	ACTI	ION,	ETC	S. SH	IALI	L BE	PR	OVII	DED /DE	ANI	DINS	STALLED E
ОТП		REDE			JENE	NAL	IECH	NOL	JGT	LQU	IFIVIL	INI		UES		1 30	UFC	JK C	KED		IAL	NL/	ADE				FER	ATION.
		REAL		_			INT	EGR/	ATIO	N				EXIT			D	OOF	R HA	RDV	NAR	RE				ÒΤΕ		
DOOR#	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR	OPERATES MULTIPLE DOORS	WIRELESS	AUTOMATIC DOOR OPERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	REMOTE UNLOCK VIA INTERCOM MASTER	REMOTE UNLOCK VIA PUSHBUTTON	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	INTERNAL ELECTRIFIED HARDWARE CONNECTION	LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	ELECTRONIC LOCKING HARDWARE (BY OTHERS)	MAG LOCK	LATCH STATUS DETECTION	LOCAL ALARM HORN	MONITOR LATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH FOR OVERHEAD DOOR	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	VISUAL STROBE	NOTES
100	CR				•								•			•					•							
102	CR												•			•					•							
110	CR				•								•			•					•							
113B	CR												•			•					•							
126	CR					•															•							
150A	CR				•								•			•					•							
201A	CR												•			•					•							
201B	CR				•								•			•					•							-
210	CR												•			•					•							-
GH01A GH02	CR CR												•			•					•							-
GH02 GH05	CR												•			•					•							

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM. CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
	ACCESS CONTROL AUTOMATIC DOOR OPENER. ACCESS CONTROL CARD READER. PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CONTROLLED SECURITY	* KEYSCAN
	SCHEME (CSS) TYPE SCHEDULE ON T500 AND 3/T400 ACCESS CONTROL RISER DIAGRAM FOR ADDITIONAL INFORMATION. CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	K-KPR
AC-DC	ACCESS CONTROL DOOR CONTACT. REFER TO 3/T400 ACCESS CONTROL RISER DIAGRAM FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	*
AC-REX	ACCESS CONTROL REQUEST TO EXIT DEVICE. REFER TO 3/T400 ACCESS CONTROL RISER DIAGRAM FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	*
	ACCESS CONTROL SECURITY SYSTEM CONTROL PANEL. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION.	KEYSCAN ACCESS
		NO SUBSTITUTIONS
	AREA OF RESCUE ASSISTANCE CALL STATION, WALL MOUNT, VANDAL RESISTANT WITH MUSHROOM SWITCH. MOMENTARY SWITCH WITH LED	CORNELL
	AND ONE AUDIBLE ALARM, MOUNT IN CORNELL PROVIDED 4-1/2" SQUARE STAINLESS STEEL FACEPLATE AND DUAL GANG BACK BOX WITH 1-3/4" DEPTH AT 48" AFF. REFER TO 3/T401 FOR AREA OF RESCUE RISER DIAGRAM FOR ADDITIONAL INFORMATION.	4201B/VM
		OR PRE-APPROVED EQUAL
	AREA OF RESCUE ASSISTANCE MASTER STATION. 4-ZONE PANEL WITH AUDIBLE ALARM ON THE PANEL AND LED LIGHTS PER ZONE TO INDICATE WHEN CALL IS INITIATED. POWER REQUIREMENTS: 24VDC. MOUNT IN CORNELL PROVIDED 10"H X 9"W X 3.5"D BACKBOX (BB-40) AT 48" AFF.	CORNELL A-4204
	INCLUDE TELEPHONE ACCESS KIT (#TAK-4202). FULLY PROGRAMMABLE AUTO DIALER. MESSAGES CAN BE RECORDED LOCALLY, REMOTELY, OR	
AV-CP3-1	CONTROL PROCESSOR FOR SINGLE OR DIVISIBLE ROOM A/V CONTROL, SUPPORTS 7" WALL TOUCH PANEL INTERFACE AND HANDHELD HARD	EQUAL CRESTRON
	BUTTON RF REMOTE CONTROL, LOCAL AREA NETWORK CONTROL AND PROGRAMMING INTERFACE AND RS232, CONTACT CLOSURE AND INFRARED CONTROL FOR COMMERCIAL AND CONSUMER A/V DEVICES, 1 RU HEIGHT, REFER TO 1/T401 CLASS ROOM A/V RISER DIAGRAM FOR	CP3
	CONTROL PORT REQUIREMENTS. AUDIO VISUAL INFRARED SENSOR, CEILING MOUNT.	EXTRON *
	HDBASET OUTPUTS, INPUT SCALING TO 1080P AND WUXGA (1920 X 1200) OUTPUT, LAN OR RS232 CONTROL OF AUDIO VIDEO EQUIPMENT, 3 RU	CRESTRON DMPS3-300-C
		EXTRON
	INPUTS, ONE SET OF RCA COMPONENT INPUTS, THREE (3) HDMI IN, MINI D-SUB INPUT, USB, M3 AUDIO INPUT, M3 AUDIO OUTPUT, RJ-11, M3 JACK	PANASONIC TH-80LF50E
		OR PRE-APPROVED
AV-MON-2		EQUAL PANASONIC
		TH60LF50U
		OR PRE-APPROVED EQUAL
	STANDARD DIVERSITY WIRELESS MICROPHONE RECEIVER WITH HANDHELD MIC, PROGRAMMABLE CHANNELS, MIC AND LINE OUTPUTS, DETACHABLE AND REMOTE LOCATABLE 1/2 WAVE ANTENNA, RACK MOUNTABLE IN 1 RU.	SHURE ULX
		AKG
AV-PRE-1		TELEX BIAMP
	COMPRESSOR AND INPUT DUCKING, CONTROL INTERFACE VIA RS232 OR LAN WITH FULL DISCRETE COMMAND SET FOR ZONE VOLUME, INPUT LEVELS AND INPUT SWITCHING, 2 RU HEIGH.	TESIRAFORTE
	DANTE ENABLED DIGITAL PREAMP AND MIC/LINE MIXER WITH EIGHT MIC/LINE INPUTS AND MINIMUM TWO OUTPUTS WITH PARAMETRIC EQ,	CRESTRON BIAMP
	LEVELS AND INPUT SWITCHING, 2 RU HEIGH.	TESIRAFORTE
	AUDIO VISUAL ROUGH-IN, WALL MOUNT. PROVIDE ONE (1) 4 11/16" SQUARE BACKBOX WITH A DOUBLE GANG PLASTER RING, WALL MOUNT, AND	CRESTRON *
	ONE (1) 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO FLOOR PLANS FOR ADDITIONAL CONDUIT REQUIREMENTS. WHERE ROUGH-IN IS INSTALLED IN E.C. PROVIDED RECESSED BOX PROVIDE A SINGLE GANG BOX.	
AV-RX-1	JUNCTION BOX MOUNT 4K DIGITAL MEDIA HDBASET RECEIVER AND DISPLAY CONTROLLE. ONE DM TWISTED PAIR INPUT, ONE HDMI OUPUT AND RS-232/INFRARED CONTROL OUTPUT, WHITE COLOR, MOUNT IN AV-WP1-W DISPLAY CONNECTIVITY BOX UNLESS OTHERWISE NOTED.	CRESTRON DM-RMC-4K-100-C-1G
		EXTRON
	PERFORMANCE AUDIO SPEAKER, CEILING MOUNTED, RECESSED, SOUND REINFORCEMENT, HEMISPHERICAL DISPERSION, FULL RANGE TYPE WITH BASS REFLEX ENCLOSUR. 60 WATT (16 OHMS) AND 120 WATT (8 OHMS) CONTINUOUS POWER HANDLING, SENSITIVITY: 90dB SPL @ 1W/1M,	CRESTRON SAROS
	RESPONSE CURVE AT 500, 1000, 2000, 4000 AND 8000 Hz, AS WELL AS A FREQUENCY RESPONSE CURVE.	IC6LPT-B-T-EACH
		OR PRE-APPROVED EQUAL
	MEDIA TEA. FOUR BNC HD-SDI/3G-SDI INPUTS, FOUR LC SINGLE MODE FIBER INPUTS/OUTPUTS FOUR BNC HD-SDI/3G-SDI AND HDMI LOOP	BLACKMAGIC ATEM STUDIO
		CONVERTER 2
		OR PRE-APPROVED EQUAL
	8X8 HDMI MATRIX CARD FRAME SWITCH WITH MINIMUM TWO HDBASET TWISTED PAIR INPUTS, FOUR HDMI INPUTS, FIVE HDBASET TWISTED PAIR OUTPUTS, ONE HDMI OUTPU. REFER TO AV RISERS ON T403 FOR ADDITIONAL CONNECTIVITY INFORMATION.	CRESTRON DM SERIES
		EXTRON
AV-TP-W	7" LED CAPTIVE EDGE TO EDGE GLASS TOUCH PANEL, WALL MOUNT, POE NETWORK POWER SUPPORT.	CRESTRON TSW-752
		OR PRE-APPROVED
	HIGH DEFINITION IPTV TUNER WITH ONE 10/100 LAN INPUT, ONE DVI/HDMI AND COAXIAL OR OPTICAL DIGITAL AND ANALOG RCA OUTPUTS,	EQUAL *
AV-TX-1		CRESTRON
	CONTROL INPUT, WHITE COLOR.	DM-TX-4K-100-C-1G
	A/V DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4"	EXTRON *
	A/V DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS.	
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SC-CPW-1	A/V DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 60" OC AFF UNO.	
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SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1	AV DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 60" OC AFF UNO. FIRE RATED PATHWAY. 4"W X 4-5/8" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUITTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUITTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURES INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE US	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36
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SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1	AV DISPLAY CONNECTIVITY BOX (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG, JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 60" OC AFF UNO. FIRE RATED PATHWAY. 4" X X 4-5/6" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER CUTTINO OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY, 10" MAXIMUM SUPPORT SPAN, EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY HROUGHOUT. ZBRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN, EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN, EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD 19" PROVIDE WITH THE SPLICE W	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS:
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1	AV DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 60" OC AFF UNO. FIRE RATED PATHWAY, 4"W X 4-5/8" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER, CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10 MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. RETER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10 MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD 19" EQUIPMENT RACK, 89"H X 19"W X 19"D, FEATURING PASS-THRU HOLES ON FRONT AND SIDES FOR CABLE MANAGEMENT (HUBBELL VS76H), DURABLE BLACK POWDER COAT FINISH, MEETING PASS-THRU HOLES ON FRONT AND SIDES FOR CABLE MANAGEMENT. PROVIDE COMPLETE WITH TWO (2) TWO-SIDED VERTIC	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1	AV DISPLAY CONNECTIVITY BOX (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 80" OC AFF UNO. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 80" OC AFF UNO. INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. RETO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 29 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. RETO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 29 FOR ADDITIONAL INFORMATION. STANDARD 19" EQUIPMENT RACK, 8"1" X 19"W X 15"D, FEATURING PASS-THRU HOLES ON FRONT AND SIDES FOR CABLE MANAGEMENT (HUBBELL VS76H), DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENT AND PROVIDES (45) 1"75" MOUNTING SPACES. PROVIDE WITH TOP CENTER WATERFALL TOP CHANNEL PATHWAY FOR LADDER RACK. ADD WITH MINIMUM 14" X 6" CAPACITY FRONT AND REAR, AND WITH LADDER RACK CONNECTION HARDWARE ACC	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1	AV DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ON 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ON 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. CABLE TRAY, WIRE MESH TYPE. 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 1" MAXIMUM SUPPORT TWAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SCORES OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR MALL MOUNTED APPLICATIONS. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 9" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY 1" MAXIMUM SUPPORT SHALL BUSED TO ATTAIN GROUNDING CONTINUITY T	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-FDC-1	AV DISPLAY CONNECTIVITY BOX.(FSR PWB-250 WHITE) 14.26" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. NOT SHALL ONE 34" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 50" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 50" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 50" OC AFF UND. INSTALL ON 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 50" OC AFF UND. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER, CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY 10" MAXIMUM SUPPORT SHAN, EITHER SPLICE WASHERS OR TERMINAL, GROUND SUPPORT AND JUMPER WIRE SHALL BEDE TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DUSE ON THE MOUNTING PADACES. INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD 19" GOVERNMENT AND ADDITIONAL INFORMATION. STANDARD 19" GOVERNMENT AND ADDIT	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1	AND DISPLAY CONNECTIVITY BOX (FSR PWB-250 WHITE) 14 25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 34" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" OC AFF UND. INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTINES ONLY. 10" MAXIMUM SUPPORT SAN EITHER SPICE WASHERS ON ETEMBALS, GROWN BUSHOOT AND JUMPER WIRE SHALL BE USED TO ATTAIN ROUNDING INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 2" 05 28 FOR ADDITIONAL INFORMATION. STRUCTIONS AND	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 34" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 500" OC AFF UND. FIRE RAYED PATHWAY. 4"W X 4-5/8" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOIL QUITERS ONLY, 10" MAXIMUM SUPPORT SPAN EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. ZERRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MADEAUTE FRAPEZE SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOLL QUITERS ONLY. 10" MAXIMUM SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOLL CULTERS ONLY. 10" MAXIMUM SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOLL CULTERS ONLY. 10" MAXIMUM SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOLL CULTERS ONLY. 10" MAXIMUM SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSTE BOLL CULTERS ONLY. 10" MAXIMUM SUPPORT WITH PLASTIC RETAINER. CULTING PLAST SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 2" OS 25 FOR ADDITIONAL INFORMATION AND SIDES FOR CABLE MANAGEMENT. STANDARD SHAPPE S	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 34" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING. INSTALL AT 80" OC AFF IND. FIRE RATED PATHWAY. 4"W X 4-5/8" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE. 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT STAN EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-FRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUPACTURES INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. INFORMATION. CABLE TRAY, WIRE MESH TYPE. 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SHAN EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. 2-FRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUPACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD AND SECLIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD AND SECLIFICATION SECTION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD AND SECLIFICATION SECTION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD AND SECLIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION. STANDARD AND SECLIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION AND J	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1	AM DISPLAY CONNECTIVITY BOX (FSR PWB-260 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3-4" CONDUIT FOR POWER, PROVIDE SINGLE GANG, JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 89" OC AF FUND. FIRE RATED PATHWAY 4" X 4-6/8" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY, 10 MAXIMUM SUPPORT SPAN, EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN ROUNDING CONTINUITY THROUGHOUT. ZERACKETS SHALL BE USED FOR WALL MOINTED APPLICATIONS. REFERT TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 25 FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING BETTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE AND ALL FUNDED APPLICATIONS. REFERT TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 2" 05 25 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 2" 05 25 FOR ADDITIONAL INFORMATION. CONTINUITY THROUGHOUT. ZERACKETS SHALL BE USED FOR WALL MOUNTED SHALL BE DONE WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE SUPPORT IS PAIL THE DEVELOPMENT RACK, 4" LAND THE BUSED FOR WALL MOUNTED SHALL BE JUGGED TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 2" 50 25 FOR ADDITIONAL INFORMATION. STRUCTIONS AND SPECIFICATION SECTION 2" 50 25 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" SUBJECT SHALL BE COUNTED TO MANUFACTURE	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-FDC-1 SC-GND-1 SC-GND-2	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.25" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-1/4" KNOCKOUTS. INSTALL ONE 3/4" CONDUIT FOR POWER, PROVIDE SINGLE GANG, JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON TSDO FOR WALL PLATE AND JACK INFORMATION. INSTALL ONE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80" OC AFF UND. INSTALLED NYLOW A "WIX 4-5/8" HX14" L. BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, GRANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE EXPONENT SPAN. EITHER SPLICE WASHERS ON TERMINAL CROUND SUPPORT AND JUMPER WINE SHALL BE USED TO ATTAIN GOUNDING INSTRUCTIONS AND SPECIFICATION SECTION 2" 62 55 FOR ADDITIONAL INFORMATION. INSTRUCTIONS AND SPECIFICATION SECTION 2" 65 SEOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE BY A THE MESH OF THE WASHERS OF TERMINAL CROUND SUPPORT AND JUMPER WINE SHALL BE USED TO ATTAIN GOUNDING SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WINE SHALL BE USED TO ATTAIN GOUNDING CONTINUTY THOUSAND SPECIFICATION SECTION 2" 65 SEOR FOR ADDITIONAL INFORMATION. CABLE TRAY. WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE THAN WIRE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE. SUPPORT WITH PLASTIC RETAINER. CULTING OF THE MESH CABLE TRAY SHALL BE DONE WITH PLASTIC RETAINERS COULT SHOULD SHALL THE MESH TYPE, 4" LOADING DEPTH, 8" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE FOR OYDE TRAPEZE. STANDARD 19" CONTINUTY THE MEST CABLE TO THE MESH AND ADDITIONAL HARDWARE FOR COUNTING THE MESH AN	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019 ERICO HARGER HUBBELL/QUAZITE PG2424BB24
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-FDC-1 SC-GND-1 SC-GND-2	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.25° X.7° X.4° WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-14° KNOCKOUTS. INSTALL ONE 34° CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1° CONDUIT TO NEARBST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION OUTLET AND JACK INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION. INSTALL ONE 1-14° CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80° OCA FF JUNC. INSTALLE ONE 1-14° CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80° OCA FF JUNC. FIRE RATED PATHWAY. 4° WX X-96° H X14° L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED, RANGE PARKY. CABLE TRAY, WIRE MESH TYPE, 4° LOADING DEPTH, 12° WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER CLUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLD CUTTERS ONLY. TO MAXIMUM SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT Z-BRACKETS SHALL BE USED TOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 20° 28° FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4° LOADING DEPTH, 8° WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER CUTTING OF THE MESH CABLE TRAY SHALL BE CONE WITH OFFSET BOLD CUTTERS ONLY. 10° MAXIMUM SUPPORT AND JUNC SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 20° SE FOR ADDITIONAL INFORMATION. STANDARD TO SHALL BE SHALL BE USED FOR WALL MOUNTED APPLICATIONS. PRESER TO MANUFACTURERS INSTALLATION INSTRUCTION SHALL BE SHALL BE USED TO SE FOR ADDITIONAL INFORMATION.	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019 ERICO HARGER HUBBELL/QUAZITE PG2424B24 PG2424HA00 CARSON INDUSTRIES
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-FDC-1 SC-GND-1 SC-GND-2	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.25° X.7° X.4° WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-14" (MOOKOUTS). NOSTALL ONE 34" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO NEAREST CABLE TRAY OR PATHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION OUTLET SCHEDULE ON 1500 FOR WALL FLATE AND JACK INFORMATION. INSTALL ONE 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYI, ON BUSHING, INSTALL AT 80° CO 24 FLUY. INSTALL ONE 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYI, ON BUSHING, INSTALL AT 80° CO 24 FLUY. INSTALLED, ORANGE PAINT. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE. SUPPORT WITH PLASTIC RETAINED. SUPPORTS THAN LIFE SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WITE SHALL BE LISE TO A TATAIN GROUNDING CONTINUITY THROUGHOUT. ZERGACKETS SHALL BE USED TO 25 S FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 9" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE. SUPPORT SHALL BE USED TO A TATAIN GROUNDING CONTINUITY THROUGHOUT. ZERGACKETS SHALL BE USED TO 3 TATAIN GROUNDING CONTINUITY THROUGHOUT. ZERGACKETS SHALL BE USED TO 3 TATAIN GROUNDING CONTINUITY THROUGHOUT. ZERGACKETS SHALL BE USED TO 3 TATAIN GROUNDING CONTINUITY THROUGHOUT. ZERGACKETS SHALL BE USED TO A TATAIN GROUND SUPPORT AND JUMPER WITH ALL FITTINGS AND MOUNTING HARDWARE PROVIDE TRAPEZE. SUPPORT WITH PLASTIC RETAINED SECTION. SECTION 27 SOE S FOR ADDITIONAL INFORMATION. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 9" WITH, COMPLETE WASHERS DOWN WITH ALL FITTING SHALL BE USED TO A TATAIN GROUND TRAPEZE. SHALL BE USED TO A TATAIN GROUND SECTION. TO	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019 ERICO HARGER HUBBELL/QUAZITE PG2424BB24 PG2424HA00
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1 SC-GND-1 SC-GND-2	AAD DISH O'CONNECTIVITY BOX (FSR PWB-250 WHITE) 14.25" X.7" X.4" WALL RECESSED BOX WITH TWO SINGLE GANG AND ONE 1-144" KNOCKOUTS MANOCKOUTS. NETALL ONE SHY CONDUIT FOR POWER, PROVIDES SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" COORDIT TO MANOCKOUTS. NETALL ONE SHY CONDUIT FOR POWER, PROVIDES SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" COORDIT TO MANOCKOUTS. NETALL ONE 1-14" CONDUIT FOR POWER, PROVIDES SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" COORDITATE AND JACK INFORMATION. NISTALL ONE 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80" O'CO AFF JUNC. PRE RATED PATHWAY, 4"W X.4-59" H X14" L, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 12" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE, PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER, CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT AND JUNGEN WITH PLASTIC RETAINER, CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT AND JUNGEN WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT AND JUNGEN WISH FOR SHALL BE SUPPORT THAN JUNGE WISH SHALL BE SUBPORT THAN JUNGE WISH WISH SHALL BE SUBPORT TO THAN JUNGE WISH WISH SHALL BE SUBPORT	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019 ERICO HARGER HUBBELL/QUAZITE PG2424BB24 PG2424HA00 CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH HUBBELL
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1 SC-GND-1 SC-GND-2	AND DISPLAY CONNECTIVITY BOX (FSR PWB-250 WHITE) 14.26" X.7" X.4" WALL RECESSED BOX WITH TWO SINGLE CANG AND ONE 1-144" NINOCKOUTS NETALL ONE 54" CONDUIT FOR POWER, PROVIDE SINGLE GANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" CONDUIT TO REVER TO THE WITH PASTOR OF ATTHWAY FOR INFORMATION OUTLET, REFER TO INFORMATION OUTLET SCHEDULE ON TSIDE FOR WALL PLATE AND JACK INFORMATION. NESTALL ONE 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" CO AFT UNIX. NESTALL ONE 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 60" CO AFT UNIX. PREFERED PATHWAY 4"W X-58" H X14" L. BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALL DE THE ATTEMATION OF THE AMOUNT OF CABLES INSTALL DE THE ATTEMATION OF THE AMOUNT OF CABLES INSTALL DE THE ATTEMATION OF THE MESH CABLE THAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" WAXMINIMAL SUPPORT ADJUST WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE THAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" WAXMINIMAL SUPPORT ADJUST WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE THAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" WAXMINIMAL SUPPORT ADJUST WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE THAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" WAXMINIMAL SUPPORT ADJUST WAS ADJUSTED. THE SHALL BE USED TO ATTING ROUNDING CONTINUITY THROUGHOUT. ZERACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION NOTES. SEPECIAL BUSINESS OFFSET AND ADJUST WAS ADJUSTED AND ADJUST WAS ADJUSTED. THE ADJUST WAS ADJUS	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 40163-019 ERICO HARGER HUBBELL/QUAZITE PG2424BB24 PG2424HB00 CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24 PG2424HANOU CARSON INDUSTRIES ARIGHER HUBBELL/QUAZITE PG2424BB24
SC-CPW-1 SC-CT-1 SC-CT-2 SC-ER-1 SC-ER-2 SC-FDC-1 SC-GND-1 SC-GND-2	AND DISPLAY CONNECTIVITY BOX, (FSR PWB-250 WHITE) 14.20" X 7" X 4" WALL RECESSED BOX WITH TWO SINGLE CANG AND ONE 1-14" KNOCKOUTS. NOTALL DUE SHY CONDUIT FOR POWER, PROVIDES SINGLE CANG JUNCTION BOX AND DUPLEX RECEPTACLE INSTALL ONE 1" COCNOUT TO REASEST CARLE TRAY OR PATHWAY POR INFORMATION OUTLET. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR WALL PLATE AND JACK INFORMATION. NOTALL DOR! 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80" CO AFF UNIX. NOTALL DOR! 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80" CO AFF UNIX. NOTALL DOR! 1-14" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING, FINISH WITH NYLON BUSHING, INSTALL AT 80" CO AFF UNIX. PREFERED PATHWAY 4"W X 4-58" H X14" I, BUILT IN SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALL BY A 1-14" CABLE TRAY WAS AND ADMINISHED THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALL SHOW AND A 1-14" CABLE TRAY WAS AND ADMINISHED THAT A 1-14" C	EXTRON * STI EZ PATH SERIES 44 NO SUBSTITUTIONS COOPER B-LINE FLEXTRAY FT4x12x10 MONO-SYSTEMS CABLOFIL COOPER B-LINE FLEXTRAY FT4x8x10 MONO-SYSTEMS CABLOFIL HUBBELL HPW84RR19 CHATSWORTH HOFFMAN HUBBELL SF8419-36 CHATSWORTH HOFFMAN HUBBELL FCR SERIES PANELS: FSP SERIES OR PRE-APPROVED EQUAL CHATSWORTH PRODUCTS 40153-012 ERICO HARGER CHATSWORTH PRODUCTS 10610-019 ERICO HARGER HUBBELL/QUAZITE PG2424BB24 PG2424HA00 CARSON INDUSTRIES ARMORCAST HIGHLINE PRODUCTS SYNERTECH HUBBELL HC219CE1N

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM. CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER A MODEL
SC-IO-CWAP	INFORMATION OUTLET, WIRELESS ACCESS POINT, WALL OR CEILING MOUNT. 2-PORT FACEPLATE AS INDICATED ON INFORMATION OUTLET	COVERPLATE: HUBBELL FCXX SERIES
	REFER TO INFORMATION OUTLET SCHEDULE ON DRAWING T500 FOR DESCRIPTION OF EACH CONFIGURATION, PIN CONFIGURATION OF JACKS, AND ADDITIONAL INFORMATION AND REQUIREMENTS.	JACK: HUBBELL
	PROVIDE RATED CABLE, BACKBOXES AND OUTLETS FOR GREENHOUSE LOCATIONS AS INDICATED ON DRAWINGS.	CAT6A:
	TERMINATE CABLE WITH PLUG, LABEL, AND STORE SPECIFIED SLACK LOOP OF CABLE ON J-HOOK AT LOCATION INDICATED ON FLOOR PLANS.	HJ6AW SERIES NO SUBSTITUTIONS
SC-IO-F	INFORMATION OUTLET, POKE-THROUGH MOUNT 4-PORT COVERPLATE AS INDICATED ON DRAWINGS AND INFORMATION OUTLET SCHEDULE. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR PIN CONFIGURATION INFORMATION.	LEGRAND EVOLUTION 10 PO THRU
	" # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.	
	INSTALL INFORMATION OUTLET IN E.C. PROVIDED FLOORBOX. PROVIDE ADAPTER PLATE FOR 106-TYPE FACEPLATE WHERE REQUIRED. COORDINATE ADDITIONAL MOUNTING REQUIREMENTS WITH E.C. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION.	
SC-IO-W	INFORMATION OUTLET, WALL MOUNT. 2 OR 4-PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T500.	COVERPLATE: HUBBELL
		IFP SERIES JACK:
		HUBBELL
	INSTALL INFORMATION OUTLET IN A 4" SQUARE 2-1/8" DEEP BACK BOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO NON-CONTINUOUS CABLE SUPPORT ROUTE OR CABLE TRAY ABOVE NEAREST ACCESSIBLE CEILING. REFER TO 1/T300 FOR TECHNOLOGY ROUGH-IN MOUNTING DETAIL.	HXJ6 SERIES
	PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED FACEPLATE PORTS.	NO SUBSTITUTION
SC-LR-1	NECESSARY ADAPTERS, SUPPORT HARDWARE, AND FITTINGS, TO INCLUDE RADIUS DROPS. REMOVE SHARP BURRS FROM LADDER RACK AND	COPPER BLINE FT2X18X10 MONO SYSTEMS
		OR PRE-APPROVE EQUAL
SC-MPP-1	PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	HUBBELL CAT 6: P6E48U
SC-MPP-2	MODULAR PATCH PANEL. FORTY EIGHT (48) MODULAR CAT6A RJ-45 SANP IN JACKS. MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK,	NO SUBSTITUTION
SC-IMPP-2	PORT IDENTIFICATION NUMBERS, PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS, U.L. LISTED. REQUIRES (2) 1.75" MOUNTING SPACES.	CAT 6A: P6A48U
SC-PS-1	POWER STRIP, HORIZONTALLY MOUNTS IN A STANDARD EIA/TIA 19" RACK, (10) REAR RECEPTACLES, 125VAC/60Hz, PROVIDE WITH 10'-0" CORD.,	HUBBELL HPWPWR
		HOMACO INC. CHATSWORTH PRODUCTS TRIPP LITE
SC-TE-W	TELECOM ENCLOSURE, WALL MOUNTED.	HUBBELL QUADCAB HSQ4826
		OR PRE-APPROVE EQUAL
SC-TTB-1	TELECOMMUNICATIONS TERMINAL BOARD. 4' X 8' X 3/4" A-C GRADE FIRE-RATED PLYWOOD. INSTALL ORIENTED VERTICALLY WITH TOP OF PLYWOOD AT +102" AFF AND WITH "A" GRADE SMOOTH SURFACE EXPOSED. RATING STAMP MUST REMAIN VISIBLE.	*
SC-WAP-C	INFORMATION OUTLET WIRELESS ACCESS POINT DEVICE/ENCLOSURE, CEILING MOUNT. NO FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T500.	ENCLOSURE OBERON 1020 SERIES
	TERMINATE CABLE WITH PLUG, LABEL, AND STORE A MINIMUM OF 15'-0" OF SLACK LOOP OF CABLE ON J-HOOK AT LOCATION INDICATED ON FLOOR PLANS. REFER TO SUGGESTED MATRIX OF SCOPE RESPONSIBILITY ON DRAWING T001 FOR ADDITIONAL INFORMATION.	OR PRE-APPROVE EQUAL
SC MD M	PROVIDE (2) TWO CATEGORY 6 CABLES AND JACKS PER WAP.	COVERDI ATE:
SC-WP-W	INFORMATION OUTLET FOR WALL PHONE, 1-PORT FACEPLATE AS INDICATED IN INFORMATION OUTLET SCHEDULE ON DRAWING T500. "W "PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE.	COVERPLATE: ICC IC107FFWSS
	INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING AND A 1" EMT CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.	JACK: HUBBELL CAT6: HXJ6 SERIES
		NO SUBSTITUTION

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the Laws of the State of Wisconsin. ARCHITECT SEAL



Print Names: Jack Poling Date: JUNE 4, 2018 License No: A-8984
 MARK
 DATE
 DESCRIPTION

 01.10.2018
 DESIGN DEVELOPMENT SUBMISSION

 03.30.2018
 70% CD SUBMISSION
 05.04.2018 90% CD SUBMISSION 06.01.2018 BID ISSUE 06.04.2018 PERMIT ISSUE

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BID DOCUMENTS CHECKED BY:
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REFERENCE SCALE IN INCHES
1 2 SCHEDULES -**TECHNOLOGY**

EXHIBIT O