

C-4016 SCIENCE CENTER **CONFERENCE ROOM 241 CONVERSION**

	CODES / STANDARDS	CODE SUN EXISTING	IMARY OF BUILDING	PROJECT GENERAL NOT
Nine To	APPLICABLE CODES/CRITERIA/DESIGN POLICY: AUTHORITY HAVING JURISDICTION:	BUILDING CLASSIFICATION CHANGES PROPOSED)	(FOR REFERENCE - NO	FOLLOWING PROJECT GENERAL NOTES APPLY TO THE ENTIRE DRAWING SET AND ARE NOT SPECIFIC TO ANY ONE DISCIPLIN UNLESS OTHERWISE NOTED:
	CALIFORNIA BUILDING CODES	TOTAL BUILDING AREA: NUMBER OF STORIES:	54,694 GROSS SQUARE-FEET THREE STORIES	A. THE CONSTRUCTION DOCUMENTS (DRAWING SET AND SPECIFICATIONS) ARE COMPLEMENTARY AND ESTABLISH DET MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCT OF THE PROJECT.
	 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2015 INTERNATIONAL BUILDING CODE, VOL. 1&2, AND 	SPRINKLERS: OCCUPANCY CLASSIFICATION:	FULLY SPRINKLERED B / A-3 NON-SEPARATED	 B. DRAWING SET, WHEN COMPLETE, CONSISTS OF ALL SHEETS I BY THE SHEET INDEX. THE WORK DESCRIBED BY THE DRAWIN OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK
Lunda 3 I San Water Com Mo Anno Gan Ro Here G I Calibratio	2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2010 CALIFORNIA MECHANICAL CODE (CMC), DART 4, TITLE 24	OCCUPANCY SEPARATION:	OCCUPANCY (CBC 508.3), SEE 'BUILDING ANALYSIS' TABLE NO SEPARATION REQUIRED BETWEEN B / A-3 OCC	DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO DRAWINGS OF ANOTHER DISCIPLINE PARTIAL DRAWING SETS ARE INCOMPLETE. DO NOT DISTRIBU
Δ	 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2015 IAPMO UNIFORM PLUMBING CODE AND 2016 		(CBC 508.3.3) NO CHANGES	 C. COLUMN GRID LINES IDENTIFIED BY A LETTER DESIGNATION A PARALLEL, UNLESS OTHERWISE NOTED. COLUMN GRID LINES IDENTIFIED BY A NUMBER DESIGNATION ARE PARALLEL AND A
	CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA	HAZMAT CONTROL AREA:	(NO CHANGES) ONE CONTROL AREA FOR ENTIRE BUILDING (CBC 414), SEE SHEETS G0.7 TO	PERPENDICULAR TO THOSE WITH LETTER DESIGNATIONS, UN OTHERWISE NOTED. D. DISCIPLINE GENERAL NOTES, SYMBOLS AND DEFINITIONS
	AMENDMENTS) 2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2015 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS) 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE		G0.9 FOR HAZ. MATERIAL INVENTORY STATEMENT (HMIS)	APPLICABLE TO EACH DISCIPLINE'S DRAWINGS MAY BE FOUNI THE FRONT OF EACH DISCIPLINE'S PORTION OF THE DRAWING OF REFERENCED DSA APPROVED INCREMENT 2 NEW SCIENCI BUILDING PROJECT. SEE DSA NOTE #1 FOR MORE INFORMATION
	2010 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL	FIRE RESISTIVE REQUIREM BEARING WALL, EXTERIOR: BEARING WALL, INTERIOR:	ENTS (CBC TABLE 601): NR NR	E. THE 'ARCHITECTURAL' SERIES DRAWINGS TAKE PRECEDENCE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT W WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER
	REGULATIONS 2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS	NON-BEARING WALL, EXTERIOR: NON-BEARING WALL, INTERIOR:	NR NR	 F. THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRA ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRAC THESE "NOT IN CONTRACT" ITEMS AS INDICATED ARE REFERENCE
	STANDARD 2016 NFPA 13 STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2013 NFPA 14 STANDARD FOR THE INSTALLATION OF STANDRIFE AND LICES SYSTEMS	FLOOR AND FLOOR-CEILING: ROOF AND ROOF-CEILING:	NR NR	AND/OR ILLUSTRATED FOR THE CONTRACTOR'S REFERENCE, INFORMATION AND COORDINATION ONLY.G. EXISTING CONDITIONS, IF SHOWN, ARE FROM AVAILABLE REC
	2013 NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	EXIT CAPACITY FACTORS (THE CAPACITY, IN INCHES, OF MEAN OTHER THAN STAIRWAYS SHALL BE	CBC 1005.3.2): IS OF EGRESS COMPONENTS CALCULATED BY MULTIPLYING IN	DRAWINGS AND OR VISUAL FIELD SURVEYS. THE CONTRACTO SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PR TO SUBMITTING A BID, AND NOTIFY THE COLLEGE/CM OF ANY DISCREPANCIES.
	 2016 NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2013 NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 	REFER TO THE LIFE SAFETY PLANS OF EGRESS WIDTH REQUIREMENTS	F 0.2 INCH PER OCCUPANT.	H. TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK A WELL AS EXISTING SYSTEMS AND ELEMENTS, IF ANY, WHICH A TO REMAIN. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE THE OWNER (CM.) IS ONTIFE ACTORY DEPARTMENT.
	2016 NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2013 NFPA 25 INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (WITH CALIFORNIA AMENDMENTS)			REPLACE SYSTEMS AND ELEMENTS WITH "LIKE NEW" QUALITY ACCEPTABLE TO THE OWNER/CONST. MANAGER. ALL REPAIR REPLACEMENT COST SHALL BE THE FINANCIAL RESPONSIBILI THE RESPONSIBLE PARTY.
	 2016 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2015 NEPA 2004 STANDARD ON CLEAN ACENT FIRE 			J. ALL PARTS OF THE WORK, INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC., MUST COMPLY WITH THE REQUIREMENTS THE GOVERNING CODES AND REGULATIONS OF ALL FEDERAL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION OVER
	2013 NFFA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2005 UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT			PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OF PERMIT WORK CONTRARY TO A GOVERNING CODE OR REGUL
	 2003 UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 1999 UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 2002 UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2012 ICC 300 STANDARD FOR BLEACHERS, FOLDING AND 			K. IDENTIFY AND NOTIFY THE COLLEGE/CONSTRUCTION MANAGE CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE ANI ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHO DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROV ADVANCE BY THE ARCHITECT/ENGINEER AND OWNER.
	TELESCOPING SEATING, AND GRANDSTANDS			L. REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACT TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND ASS THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK O THAT PARTY.
		SHEET	INDEX	DSA GENERAL NOTES
		 G0.0 PROJECT COVER SHEET A7.5.1 LEVEL 2 - ENLARGED OFFICE A9.2.2 INTERIOR PARTITION SCHED COMPONENTS MATRIX A9.2.3 TYPICAL INTERIOR FRAMING A9.2.4 TYPICAL INTERIOR METAL FF BACKING PLATE SCHEDULE A9.2.5 TYPICAL INTERIOR FRAMED A9.2.6 TYPICAL INTERIOR PARTITIC A9.4.10 DSA IR 25-2.13 CEILING DETA A9.4.11 DSA IR 25-2.13 CEILING DETA A9.4.12 DSA IR 25-2.13 CEILING DETA A9.4.14 DSA IR 25-2.13 CEILING DETA A9.9.4 MISCELLANEOUS ACOUSTIC S0.03 COLD-FORMED STEEL FRAM S9.00 INTERIOR PARTITION SCHEU S9.01 INTERIOR PARTITION WALL O DETAILS S9.02 INTERIOR PARTITION DETAIL S9.03 INTERIOR PARTITION DETAILS E7.5.1 ELECTRICAL – LEVEL 2 ENLA AND DETAILS T0.0.1.V2 TITLE SHEET AND INDEX T2.0.2 FLOOR PLAN - LEVEL 2 T4.0.30 ROOM PLAN – MEETING ROOM 	RENOVATION PLANS AND DETAILS ULE AND ADDITIONAL DETAILS RAMED PARTITION DETAILS AND PARTITION DETAILS ILS AND NOTES PART 1 ILS AND NOTES PART 2 ILS AND NOTES PART 3 & DSA IOTES AL DETAILS NG GENERAL NOTES LE & DETAILS SENERAL NOTES & TYPICAL S FAL ANCHORAGE- BACKING PLATES RGED OFFICE RENOVATION PLANS M	 THIS SCOPE OF WORK REFERENCES DSA APPROVED INCREM NEW SCIENCE BUILDING PROJECT FOR TYPICAL DETAILS SU INTERIOR NON-STRUCTURAL STUD FRAMING AND FASTENER SUSPENDED CEILING SYSTEM DETAILS AND RELATED SPECIFICATIONS. THIS PROJECT IS EXEMPT FROM DSA REV SUCH ALL WORK SHOWN AND ASSOCIATED SHALL STRICTLY FOLLOW THE REFERENCED DSA APPROVED DRAWINGS AND SPECIFICATIONS TO ENSURE COMPLIANCE WITH THE 2016 E TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). THIS PROJECT IS CONSIDERED EXEMPT PROJECT FROM DSA REVIEW PER IR A-22, 1.3.2.1. NO CHANGES TO EXISTING FIRE LIFE SAFETY AND STRUCTU SYSTEM, NOR ACCESSIBILITY COMPLIANCES. RENOVATION OF APPROXIMATELY 220 SF OF EXISTING CONFERENCE ROOM 241 IN SCIENCE CENTER BUILDING, TO CONSTRUCT TWO NEW OFFICES, 241A AND 241B AND ASSOCIA' WORK AS INDICATED. PROPOSED SCOPES DOES NOT PROPOS ANY CHANGES TO EXISTING STRUCTURAL OR FIRE LIFE SAFET SYSTEMS, NOR ACCESSIBILITY COMPLIANCE.

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Đ	301 BATTERY STREET 7TH FLOOR SAN FRANCISCO, CA 94111 415.227.0100 www.smithgroup.com
ED IR	Integral GroupTEECOMMEP, LIGHTING, FIRE ALARMACOUSTICS, VIBRATION, AV,427 13th StreetTELECOM, SECURITYOakland, CA 946121333 Broadway, Suite 601(510) 663-2070Oakland, CA 94612(510) 337-2800-
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	SHEET TITLE GENERAL PROJECT INFORMATION
	10418 000

AGENCY APPROVALS

SHEET NUMBER

PROJECT NUMBER

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SHEET NOTES

1. SEE STRUCTURAL SHEETS S9.00 THROUGH S9.03 FOR ADDITIONAL INTERIOR METAL STUD FRAMING (INCLUDING SILLS, TRACKS, JOINTS, GAUGE THICKNESS, OPENING, BRACING) DESIGN, REQUIREMENTS, ANCHORAGE, BACKING PLATE AND OTHER INFORMATION NOT SHOWN IN DRAWING A9.2.X SERIES, TYP.

2. CAUTION: THE PURPOSE OF THIS SHEET IS TO DESCRIBE THE METAL STUD FRAMING SYSTEM REQUIRED. AS A DRAWING INTENDED TO ILLUSTRATE AN OVERALL SYSTEM OF CONSTRUCTION, THIS SHEET MAY REFERENCE OR SHOW CONDITIONS WHICH DO NOT DIRECTLY APPLY TO THIS PROJECT. REFER TO THE PROJECT FLOOR PLANS, REFLECTED CEILING PLANS, BUILDING SECTIONS, WALL SECTIONS, AND STRUCTURAL DRAWINGS TO DETERMINE WHICH CONDITIONS EXIST AND WHICH DETAILS APPLY.

3. UTILIZE FRAMING MEMBERS OF TYPE AND DEPTH SHOWN BY THE "PARTITION SCHEDULE" ON A9.2.1 (OR IF NOT SCHEDULED IN THE CASE OF EXT PERIMETER FRAMING, AS INDICATED BY WALL SECTIONS). METAL STUDS HAVING A HEAVIER GAGE THAN INDICATED AS MIN MAY BE REQUIRED - SEE NOTE 1. 4. SEE STRUCTURAL SHEET S9.01 FOR TYP BLOCKING,

BRIDGING, AND AND REINFORCEMENT REQUIREMENTS. SUPPLEMENTARY FRAMING, ADDL BLOCKING, ADDL BRIDGING, PARTITION STIFFENERS, HORIZONTAL BRACING, AND CHANNEL REINFORCEMENT NOT INDICATED HERE MAY ALSO BE NECESSARY AND SHALL BE PROVIDED AS REQUIRED. REFER TO THE SPECIFICATIONS.

5. PROVIDE 1-1/2" METAL CHANNEL BRIDGING IN LIEU 3/4" METAL CHANNEL BRIDGING AT PARTITION FRAMING UTILIZING TYPE C METAL STUDS, TYPICAL.

6. EXCEPT WHERE SPECIFIC EXTERIOR PERIMETER FRAMING ELEVATIONS HAVE BEEN PROVIDED, THE PTN FRAMING ELEVATIONS SHOWN ON THIS SHEET ALSO APPLY TO METAL STUD FRAMING AT THE EXTERIOR PERIMETER.

7. FOR ALL METAL STUD FRAMING, ISOLATE FRAMING FROM TRANSFER OF STRUCTURAL LOADING TO FRAMING, BOTH HORIZ AND VERT. SEE INDICATED DETAILS.

8. WHERE FIRE AND/OR SMOKE DAMPERS ARE REQUIRED (SEE MECHANICAL DRAWINGS), FRAME AROUND UTILITY OPENINGS AS ILLUSTRATED BY DETAIL 50B/-. LOCATE DUCTWORK TO ALLOW 5" (OR GREATER) FRAMING DEPTH ABOVE THE DUCT AND BELOW THE STRUCTURE ABOVE.

9. SUSPENDED METAL STUD FRAMING OCCURS WHERE; UON ON STRUCTURAL DRAWINGS: -FRAMING AT HEAD OF OPENING CANNOT SPAN BETWEEN

FLOOR-SUPPORTED STUDS AT EACH END DUE TO INTERRUPTION BY STRUCTURAL MEMBER. -AT LOCATIONS ISOLATED WITHIN CEILINGS WHERE NO

ADJACENT FLOOR-SUPPORTED FRAMING OCCURS (SEE ALSO CEILING SYSTEM DETAILS). -LENGTH OF SPAN AT HEAD OF OPENING IS GREATER THAN 18'-0" (S9.02).

10. FOR ADDITIONAL SUSPENDED PARTITION FRAMING REQUIREMENTS, REFER TO STRUCTURAL DETAIL 3/S9.04.

C-4016 SCIENCE CENTER **CONFERENCE ROOM 241** CONVERSION

301 BATTERY STREET 7TH FLOOR SAN FRANCISCO, CA 94111 415.227.0100 www.smithgroup.com

Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070

TEECOM ACOUSTICS, VIBRATION, AV, LECOM, SECURITY 1333 Broadway, Suite 601 Oakland, CA 94612 (510) 337-2800

ISSUED FOR	REV	DATE
ISSUED FOR BID		11 APR 2022

SEALS AND SIGNATURES

AGENCY APPROVALS

SHEET NOTES

1. CAUTION: THE PURPOSE OF THIS SHEET IS TO DESCRIBE TYPICAL DETAILS USED IN CONJUNCTION WITH THE METAL FRAMED PARTITION SYSTEM. THIS SHEET MAY SHOW DETAILS WHICH DO NOT APPLY TO THE WORK OF THIS PROJECT. REFER TO THE FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, AND OTHER DETAILS TO DETERMINE WHICH DETAILS APPLY.

A			 CEILING SYSTEM GENERAL NOTES: Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a. The ceiling grid system must be rated heavy duty as defined by ASTM C635-08. Ceiling systems. The following ceiling system(s) is/are part of the scope of this project: [For each system used, the RDP shall indicate in the construction documents, the information that follows] 	 8. OTHER DEVICES WITHIN THE CEILIN 8.01 All lightweight miscellaneous devices, speakers, exit signs, etc., shall be attaweighing more than 10 lbs. shall have structure above. Devices weighing more from the structure above.
/ \		C SCALE: 3" = 1'-0"	Manufacturer's Name USG . Product Evaluation Report Type and Number ICC-ES, ESR-1222 Manufacturer's Model Number - main runner DXI-26HRC Manufacturer's catalog number - cross runner DXI-424HRC	
	5	GRAPHI	 1.05 Ceiling panels shall not support any light fixtures, air terminals or devices. 1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the wall on the sides of the ceiling free to slip. 	
			 MATERIALS: Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi. Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in 	
B		= 1'-0"	 Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi. 2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi. 	
	.00	GRAPHIC SCALE: 1 1/2"		
	÷ I		Basis Document: DSA IR 25-2.13 Sheet No:	Basis Document: DSA IR 25-2.13
			Sheet Title: Ceiling Notes 1.00	Sheet Title: Ceiling Notes
С		-	DSA IR 25-2.13 - Appendix A (rev 02/10/16) 3 of 51	DSA IR 25-2.13 - Appendix A (rev 02/10/16)
	÷ _	E: 1" = 1'-0'		
	ō	PHIC SCAL	 ATTACHMENT OF HANGER AND BRACING WIRES: 3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc. 	() () () () () () () () () ()
		GR^	3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall	MAX MAX 1
	÷		 have counter-sloping wires. 3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements. 3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire) 	4-0-
	ō –		ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)	0- XVW
D		= 1'-0"	 4. FASTENERS AND WELDING: 4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed 	FREE JOINT 2.60
		CALE: 3/4"	4.02 Expansion anchors shall be: HILTI KB-TZ'S, ICC ESR-1917, SEE 16/S3.02 FOR MORE INFORMATION	MAX A
	.0	SRAPHIC S	 4.03 Power-Actuated Fasteners shall be: HILTI X-U'S, ICC ESR-2269 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the 	
		O	 steel member. 4.05 Power-actuated fasteners in concrete are not permitted for bracing wires. 4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive 	
	÷ ⊥		 means prior to installing post - installed anchor. 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes. TESTING: All field testing must be performed in the presence of the project inspector. 	BRACING WIRES AND COM AT EVERY 64 SQ. FT. MAX.
			 5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs, in tension. All other post-installed anchors in concrete shall be tested in 	
E	~ v	ALE: 1/2" = 1'-0"	 accordance with CBC Section 1913A.7. 5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7. 	
	.0	RAPHIC SC		Basis Document : DSA IR 25-2.13 Sheet Title : TYPICAL CEILING PLAN FOR
	÷	0	Basis Document: DSA IR 25-2.13 Sheet No: Sheet Title:	8-0" X 8-0" Brace Assembly Spa
	■ 3 ² .		Celling Notes 1001 DSA IR 25-2.13 - Appendix A (rev 02/10/16) 4 of 51	DSA IR 25-2.13 - Appendix A (rev 02/10/16)
F	16	1/16" = 1'-0"	 6. LIGHT FIXTURES: 6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A 	23:16:02 PM
	-0	HIC SCALE:	ASTM E580, Section 5.3.1. 6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling	80/14/201
	8	GRAPH	runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8)	WAX
	16		 feet. 6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above. 	96 SQ FT MAX
	16'		 6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above. 6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack 	FREE JOINT 2.60
	Ξ ω –	0"	safety wires connected from the fixture housing at diagonal corners to the structure above. Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.	
G		NLE: 1/8" = 1	than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be	
	ō	RAPHIC SC	 7. SERVICES WITHIN THE CEILING: 7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or 	NOTE:
	ł	Ð	other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.	AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 14
	.∞ ⊥		 7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above. 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing 	
-			more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above. 7.04 Elevible sprinkler hase fittings, ceiling-mounted air terminals or other convices weighter	
45:21 PM	-4	t " = 1'-0"	more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.	Basis Document : DSA IR 25-2 13
4/2019 2:		: SCALE: 1/4	Basis Document: DSA IR 25-2.13 Sheet No:	Sheet Title : TYPICAL CEILING PLAN FOR 8'-0" x 12'-0" Brace Assembly Sp
6/2	ъ _	GRAPHIC	Sheet Title: rev. 09-21-15 Ceiling Notes 1.02	
Date:	- 4		DSA IR 25-2.13 - Appendix A (rev 02/10/16) 5 of 51	DSA IR 25-2.13 - Appendix A (rev 02/10/16)
Plot			1 SCALE: 12" = 1'-0"	
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	LARGE CONDUIT FROM RC
	PENETRATION DET SCALE: 3" = 1'-0"
	FLUTE
	1-1/2" DEFLECTION JOINT AT STEE 28 EDGE DETAIL 8 SCALE: 3" = 1'-0"
	SAFING WITH MINIMUM 6 PCF DENSITY F CENTER OF EACH GAP BETWEEN FLUTE FIRE-BARRIER PUTTY OF MINIMUM 40 PC MIXTURE OF MONOKOTE AND GYPSUM I WALL THICKNESS ON EACH SIDE
	MAXIMUM T WIDE JOINT FILLED TO DEP JOINT WIDTH WITH ACOUSTICAL SEALAN BARRIER PUTTY FOR WIDER JOINTS
	ISOMETRIC SHOWING WAL OR ANGLE TO S 30 EDGE DETAIL 3 SCALE: 3" = 1'-0"
	REFER TO DETAIL 27, THIS SHEET
	WALL HEADS PAR 32 EDGE DETAIL 4 SCALE: 3" = 1'-0"

COMPONENTS AND CLADDING

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TABLE 1 - FASTENERS AND CONNECTORS

SECTION AND DETAILS FOR LOCATIONS AND NUMBER OF CONNECTIONS				
	SUBTRATE	DESCRIPTION	PRODUCT	NOTED ON PLANS AS
	METAL TRACK	#10-16 PAN HEAD []#####>	HILTI SELF-DRILLING SCREWS PER ESR-2196 OR EQUAL	SMS
	STUD-TO-STUD	#10-16 HEX HEAD OR PAN HEAD Immo	HILTI SELF-DRILLING SCREWS PER ESR-2196 OR EQUAL	SMS
TΥ	STRUCTURAL STEEL	0.157" DIA 🔎	HILTI X-U PER ESR-2269	LVF
TY)	CONCRETE	0.157" DIA ⊯— x 1 1/4" EMBED	HILTI X-U PER ESR-2269	LVF
-	CONCRETE	3/8" DIA x 2 1/2" EMBED UNO ☐□	HILTI KWIK HUS-EZ PER ESR-3027	SCREW ANCHOR
-	CONCRETE	3/8" DIA x 2 1/2" EMBED □□	SIMPSON TITEN HD PER ESR-2713	SCREW ANCHOR
-	CONCRETE	3/8" DIA x 2 5/16" EMBED	HILTI KWIK BOLT-TZ PER ESR-1917	EXP ANCHOR

FASTENERS AND CONNECTOR NOTES

1. ALL FASTENERS SHALL BE THE MIN. SIZES AND EMBEDMENTS OF THE ABOVE CHART UON IN

2. ALL FASTENERS SHALL BE INSTALLED IN ACCORD WITH THE NOTED ESR REPORT AND THE REQUIREMENTS OF THE GOVERNING AUTHORITY. TORQUE TEST ALL SCREW ANCHORS TO **10 FOOT POUNDS**

3. SCREWS LISTED IN THE ABOVE CHART SHALL BE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS

4. FOR MECHANICAL ANCHORS, THE EMBEDMENT LISTED IN THE ABOVE CHART IS THE NOMINAL EMBEDMENT, h_{nom : _}

LENGTI SCHEDU

1 1/4"	0.188"
1 3/8"	0.375"
1 5/8"	0.500"
2"	0.625"
2 1/2"	0.625"
3"	0.625"
3 1/2"	1.000"
	STUD / TRACK DEPTH
1 5/8"	1.625"

2.500"

3.625"

4.000"

6.000"

MINIMUM REQUIRED STIFFENING LIP LENGTH

FLANGE WIDTH MIN, STIFFENING LIP LENGTH (in.)

D D D D D D		
NSIDE BEND RADII PER SCHEDULE	1 5/8"	
	2 1/2"	
	3 5/8"	
	4"	
	6"	
		_

8"	8.000"
INSIDE B	END RADII PER MATERIAL THICKNESS
33 MIL	0.0764"
43 MIL	0.0712"
54MIL	0.0849"
68 MIL	0.1069"
97 MIL	0.1525"
118 MIL	0.1863"

TRACK PROPERTIES

DTH	<u> </u>
ULE	

	TRACK FLANGE WIDTH
1"	1.000"
1 1/4"	1.250"
1 1/2"	1.500"
2"	2.000"
2.5"	2.500"
3"	3.000"
INSIDE B	END RADII PER MATERIAL THICKNESS
33 MII	0 0764"

33 MIL	0.0764"
43 MIL	0.0712"
54MIL	0.0849"
68 MIL	0.1069"
97 MIL	0.1525"
118 MIL	0.1863"

<u>GENERAL</u>

- 1. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO TITLE 24 PART 1 & 2 OF THE 2016 CALIFORNIA BUILDING CODE (CBC).
- GENERAL NOTES AND TYPICAL DETAILS APPLY TO DRAWINGS UNLESS OTHERWISE NOTED. SPECIFIC NOTES AND DRAWING DETAILS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS.
- 3. STRUCTURAL DRAWINGS ARE INTENDED ONLY TO IDENTIFY FRAMING MEMBER SIZES AND CONNECTION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONFIGURATION, DIMENSIONS, AND ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
- 4. SEE S9.00 FOR ADDITIONAL NOTES FOR INTERIOR PARTITION WALLS.

DESIGN CRITERIA

- 1. DESIGN LOADS (WIND AND SEISMIC): REFER TO SHEET S0.02
- DESIGN STORY DRIFT (SEISMIC) REFER TO SHEET \$0.02.
- 3. VERTICAL DEFLECTION ALLOWANCE: a. 3/8" @ EXTERIOR BRICK CLADDING WALLS. b. 1/2" @ OTHER EXTERIOR WALLS. c. 3/4" @ INTERIOR PARTITION WALLS.
- 4. LATERAL LOAD DEFLECTION CRITERIA: a. CEMENT PLASTER: SPAN/ 360, TYP.
- b. METAL PANELS: SPAN/ 240, TYP. c. BRICK VENEER CLADDING: SPAN/ 600, TYP. INTERIOR PAINTED WALLS" SPAN/180, TYP.

COLD FORMED FRAMING MEMBERS

1. FRAMING MEMBERS ARE DESIGNATED USING SSMA STANDARD NOMENCLATURE. REFER TO "LEGEND" FOR DESCRIPTION.

DESIGNATED THICKNESS (MILS)	STANDARD GAGE NO.
118	10
97	12
68	14
54	16
43	18
33	20

- FRAMING MEMBERS SHALL CONFORM TO REQUIREMENTS OF ICC EVALUATION SERVICE "ACCEPTANCE CRITERIA FOR COLD FORMED FRAMING MEMBERS" (AC46) AS EVIDENCED BY ACTIVE ICC EVALUATION SERVICE REPORT.
- 3. COLD FORMED FRAMING SHALL BE MANUFACTURED BY AN SSMA MEMBER OR OTHER APPROVED MANUFACTURER WITH A CURRENT ICC EVALUATION REPORT.
- SHEET STEEL SHALL CONFORM TO THE FOLLOWING:
- a. 54 MIL AND HEAVIER: 50 KSI MIN YIELD, 65 KSI MIN TENSILE. ASTM A1003, ST50H OR APPROVED EQUAL
- b. 43 MIL AND LIGHTER: 33 KSI MIN YIELD, 45 KSI MIN TENSILE. ASTM A1003, ST33H OR APPROVED EQUAL
- EXCEPT AS OTHERWISE DESIGNATED ON DRAWINGS, MEMBERS SHALL CONFORM TO THE FOLLOWING:
- a. STUDS: PER DETAILS.
- b. TRACK: PER DETAILS.
- 6. PUNCHED STUDS: UTILITY PUNCH HOLES IN STUD WEBS SHALL BE MANUFACTURER'S STANDARD.
- a. HOLES SHALL BE LOCATED AWAY FROM CONNECTIONS. HOLES SHALL BE LOCATED A MINIMUM OF 10 INCHES FROM ENDS OF MEMBER.
- b. OPENINGS IN STUD WEBS, OTHER THAN MANUFACTURER'S STANDARD, ARE PROHIBITED UNLESS SHOWN ON DRAWINGS OR APPROVED BY OWNER'S REPRESENTATIVE AND DSA.
- c. WHERE STUD TYPE MEMBERS ARE USED FOR OTHER USES, SUCH AS BUILT UP HEADERS, MEMBERS SHALL BE UNPUNCHED.
- TRACKS: SPLICE TRACKS THAT ARE NOT DIRECTLY FASTENED TO STRUCTURE USING TYPICAL DETAILS PROVIDED.
- 8. BRIDGING: BRIDGING IS REQUIRED FOR LATERAL AND ROTATIONAL BRACING OF STUDS.
- 10. WHERE SLOTTED TRACK IS INDICATED IN THE PLANS, USE CEMCO (CST)/SLP-TRK ESR-2012 OR APPROVED EQUAL

FINISH COORDINATION

- THESE DRAWINGS ONLY DEPICT THE COLD FORMED STEEL FRAMING THAT IS DESIGNED TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. THE FINISHES APPLIED TO THIS FRAMING AND FASTENING THEREOF ARE SPECIFIED AND DESIGNED BY OTHERS AND ARE BEYOND THE SCOPE OF THESE DRAWINGS. THE ADEQUACY OF THE FRAMING TO RECEIVE FINISH ATTACHMENTS MUST BE EVALUATED BY THOSE DESIGNING THE FINISHES.
- THESE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT. ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

DESIGN ACCOMMODATION OF STORY DRIFT AT EXTERIOR ELEMENTS

- EXTERIOR WALL PANELS ARE DESIGNED TO ACCOMMODATE INTERSTORY DRIFT BY MEANS OF SLIDING CONNECTIONS AND/OR BENDING OF STEEL IF SLIDING CONNECTIONS ARE USED CARE MUST BE TAKEN TO PREVENT BINDING OF THE SLIDING MECHANISM. OCCASIONALLY TEMPORARY CONNECTIONS PREVENTING SLIDING ARE REQUIRED FOR INSTALLATION. THESE TEMPORARY CONNECTIONS SHOULD BE REMOVED BEFORE FINISHES ARE COMPLETED. FASTENERS FROM FINISHES SHOULD BE INSTALLED IN SUCH A WAY THAT WOULD ALLOW MOVEMENT OF INTENDED SLIP CONNECTIONS.
- 2. DAMAGE TO THE EXTERIOR WALL PANELS IS EXPECTED DURING A MAXIMUM CONSIDERED EARTHQUAKE. PERPENDICULAR WALL INTERSECTIONS CANNOT ACCOMMODATE INTER STORY DRIFT THROUGH SLIDING CONNECTIONS WITHOUT LARGE VERTICAL JOINTS AT THE INTERSECTIONS. SINCE SUCH JOINTS ARE GENERALLY UNDESIRABLE THEY HAVE NOT BEEN SPECIFIED IN THESE DRAWINGS. DAMAGE AT THESE INTERSECTIONS IS EXPECTED DURING A MAXIMUM CONSIDERED EARTHQUAKE. THE DESIGN IS INTENDED TO ENSURE THAT THE CONNECTIONS DO NOT FAIL AND PREVENT THE ELEMENT FROM CARRYING THE APPLIED LOADS.

PROTECTED ZONE

- THIS PROJECT INCLUDES STRUCTURAL STEEL MEMBERS THAT ARE PART OF THE LATERAL SEISMIC SYSTEM OF THE MAIN BUILDING STRUCTURE THAT HAVE PROTECTED ZONES. THE PROTECTED ZONES ARE IDENTIFIED IN THE STRUCTURAL PLANS. NO CONNECTIONS OF ANY KIND (WELDS OR SHOT PINS) ARE ALLOWED TO BE MADE TO THESE PROTECTED ZONES. THE CONTRACTOR NEEDS TO BECOME FAMILIAR WITH THE LOCATIONS OF THESE PROTECTED ZONES PRIOR TO START OF CONSTRUCTION.
- 2. WE HAVE DETAILED THE FRAMING CONNECTIONS IN THESE DRAWINGS TO AVOID THE PROTECTED ZONE LOCATIONS. HOWEVER, SHOULD THESE DRAWINGS BE INTERPRETED TO REQUIRE A CONNECTION AT A PROTECTED ZONE, DO NOT DO SO. CONTACT SEOR FOR DIRECTION.
- WINDOW FRAMING COORDINATION
- 1. EXTERIOR WALL SYSTEMS FREQUENTLY CONTAIN WINDOWS AND WINDOW FRAMING SYSTEMS THAT ARE DESIGNED AND INSTALLED BY OTHER PARTIES. THESE DRAWINGS SHOULD BE PROVIDED TO THESE PARTIES AND REVIEWED PRIOR TO CONSTRUCTION. ISSUES REVIEWED SHOULD INCLUDE COMPATIBILITY OF THE WINDOW SYSTEM WITH RESPECT TO INTER STORY DRIFT REQUIREMENTS. WHERE WINDOWS ARE CONTAINED WITHIN STUD FRAMING, THE STUD FRAMING SYSTEM IS DESIGNED TO SUPPORT THE WINDOW AT TOP AND BOTTOM ONLY CONNECTIONS DIRECTLY TO THE JAMB STUDS ARE NOT ANTICIPATED UNLESS NOTED ON THE DETAILS.

WELDING SHEET STEEL

- 1. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.3.
- a. FOLLOW PROPER PRECAUTIONS AND PROCEDURES FOR WELDING TO GALVANIZED STEEL.
- 2. WELDING ELECTRODES SHALL CONFORM TO THE FOLLOWING:
- a. 54 MIL AND HEAVIER E70XX
- b. 43 MIL AND LIGHTER E60XX
- c. TO STRUCTURAL STEEL E7018
- 3. WELDS SHALL BE FILLET WELDS OR FLARE GROOVE WELDS WITH THE FOLLOWING NOMINAL SIZES, BASED ON THINNER CONNECTED PART:
- a. 54 MIL AND HEAVIER 1/8 INCH
- b. 43 MIL 3/32 INCH
- c. 30 MIL 1/16 INCH
- 4. REPAIR FRAMING MEMBERS BURNED THROUGH BY WELDING BY APPLICATION OF SUITABLE STITCH PLATES PER DTLS.

SCREW FASTENERS

- 1. SCREWS SHALL BE SELF DRILLING TAPPING SCREWS THAT ARE ICC EVALUATION SERVICE APPROVED FOR USE IN ENGINEERED CONNECTIONS OF COLD-FORMED STEEL MEMBERS. SCREWS SHALL CONFORM TO ASTM C1513.
- EXCEPT AS OTHERWISE DESIGNATED, SELECT HEAD STYLE BEST SUITED TO INSTALLATION CONDITIONS AND DRILL POINT SUITED TO MATERIAL THICKNESS, AS RECOMMENDED BY SCREW MANUFACTURER.
 - a. SCREWS INSTALLED IN SLOTTED HOLES SHALL BE #14 SHOULDERED SCREW, AS MANUFACTURED BY SIMPSON-STRONG-TIE, PER UES ER 238.
- 4. INSTALL SCREWS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ENSURE PENETRATION INTO SHEET STEEL OF BY AT LEAST 3 FULL THREADS.
- 5. THE SPACING BETWEEN SCREWS SHALL NOT BE LESS THAN 3 SCREW DIAMETERS. THE DISTANCE FROM THE CENTER OF SCREW TO EDGE OF METAL SHALL NOT BE LESS THAN 1-1/2 SCREW DIAMETERS.

CONNECTIONS TO STRUCTURE

- 1. WELDING: CONFORM TO REQUIREMENTS FOR WELDING OF SHEET STEEL
- 2. CONCRETE ANCHORS: USE ANCHOR TYPE DESIGNATED ON DRAWINGS EXCEPT AS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
 - a. SCREW ANCHORS: SIMPSON TITEN (ESR-2713), OR APPROVED EQUAL EXCEPT AS OTHERWISE DESIGNATED, ANCHORS SHALL BE 3/8 INCH DIAMETER WITH MINIMUM NOMINAL EMBEDMENT LENGTH OF 2-1/2 INCHES AND MINIMUM EDGE DISTANCE OF 2-1/2 INCHES.
 - b. EXPANSION ANCHORS: KWIK BOLT TZ BY HILTI (ESR-1917), OR APPROVED EQUAL. EXCEPT AS OTHERWISE DESIGNATED, ANCHORS SHALL BE 3/8 INCH DIAMETER WITH A MINIMUM NOMINAL EMBEDMENT LENGTH OF 2-3/8 INCHES.
 - c. ANCHORS SHALL NOT BE INSTALLED IN HOLES WHERE REINFORCING BARS ARE ENCOUNTERED DURING DRILLING. RELOCATE ANCHORS MINIMUM 2 INCHES FROM ABANDONED HOLE.
- 3. POWDER DRIVEN FASTENERS (PDF/ LVF): KNURLED BALLISTIC POINT PINS WITH 0.157" DIA. SHANK, 0.30" HEAD AND MANUFACTURER'S STANDARD METAL "TOPHAT" WASHER. PINS SHALL BE SUITABLE FOR ATTACHMENT TO STRUCTURAL STEEL SUBSTRATE. X-U FASTENERS BY HILTI (ESR-2269), OR APPROVED EQUAL.
- a. THE SPACING BETWEEN PINS SHALL NOT BE LESS THAN 1 INCH IN STEEL THE DISTANCE FROM THE CENTER OF PIN TO EDGE OF STEEL SHALL NOT BE LESS THAN 1 INCH. THE SPACING BETWEEN PINS IN CONCRETE SHALL NOT BE LESS THAN 4" AND THE MINIMUM EDGE DISTANCE SHALL NOT BE LESS THAN 3".

INSPECTION AND TESTING

1. SEE SHEET S0.02.

- **ABBREVIATIONS COLD FORMED FRAMING**
- ICC-ESR INTERNATIONAL CODE COUNCIL EVALUATION SERVICE REPORT

<u>LEGEND</u>

- STANDARD STUD IDENTIFICATION (SSMA NOMENCLATURE)
- STUD IDENTIFICATION SHALL BE AS SHOWN:

	SECTIONS
600 S 162 - 43 -	MATERIAL THICKNESS
	FLANGE WIDTH

- (1.) MEMBER DEPTH: (EXAMPLE: 6"=600/100 INCHES) ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION.

MEMBER DEPTH

- STYLE:
- (EXAMPLE: STUD OR JOIST SECTIONS=S) THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
- S = STUD
- T = TRACK U = CHANNEL SECTIONS
- F = FURRING CHANNEL SECTIONS
- (3.) FLANGE WIDTH: (EXAMPLE: 1 5/8"=1.625"=162x1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

- (4.) MATERIAL THICKNESS: (EXAMPLE: 0.0541IN. = 54MILS; 1 MIL. = 1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS
- REPRESENTS 95% OF THE DESIGN THICKNESS.
- A. 118 MIL. (10GA) 0.1242"
- B. 97 MIL. (12GA) 0.1017" C. 68 MIL. (14GA) 0.0713"
- D. 54 MIL. (16GA) 0.0566" E. 43 MIL. (18GA) 0.0451"
- F. 33 MIL. (20GA) 0.0346"

S0.03

CONDITION	REQUIREMENTS	NOTES	STUD DETAIL	BACKING PLATE DETAIL	MIN. ROWS OF BACKING	BACKING PLATE MATERIAL	FASTENEF TO STUD
"A"	PARTITION WALL WITHOUT ATTACHMENTS.		2-S9.00	NONE	NONE	NONE	NONE
"B"	PARTITION WALL SUPPORTING COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: - DISTRIBUTING UP TO 20 LB VERTICAL LOAD PER STUD (15 PLF FOR STUDS AT 16" O.C.). - CENTER OF GRAVITY 6" MAX FROM THE FACE OF THE STUD.	USE FOR SMALL ITEMS SUCH AS DOOR STOPS, DOOR HOLD OPENS, BUMPER RAILS, CRASH RAILS, ETC.	9-S9.00	9-S9.03	1	6" X 54 mil PLATE	3 #10 S.M
"C"	PARTITION WALL SUPPORTING COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: - DISTRIBUTING UP TO 50 LB VERTICAL LOAD PER STUD (37 PLF FOR STUDS AT 16" O.C.). - CENTER OF GRAVITY 6" MAX FROM THE FACE OF THE STUD.	USE FOR SMALL ITEMS SUCH AS TOILET ACCESSORIES, MIRRORS, COAT HOOKS, DRYING RACKS, SHOWERS, EYEWASH STATIONS.	9-S9.00	10-S9.03	1	600T150-54 MIN. MATCH GA OF STUDS	3 #10 S.M
"D"	PARTITION WALL SUPPORTING COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: - DISTRIBUTING UP TO 200 LB LATERAL LOAD PER STUD (150 PLF FOR STUDS AT 16" O.C.). - CENTER OF GRAVITY 6" MAX FROM THE FACE OF THE STUD.	USE FOR WALL MOUNTED HAND RAILS.	9-S9.00	10-S9.03	1	600T150-54 MIN. MATCH GA OF STUDS	3 #10 S.M
"E"	PARTITION WALL SUPPORTING OVERHEAD COMPONENTS OR EQUIPMENT AND FLOOR SUPPORTED BASE COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: - DISTRIBUTING UP TO 200 LB VERTICAL LOAD PER STUD (150 PLF FOR STUDS AT 16" O.C.) AT THE OVERHEAD CONDITION AND -DISTRIBUTING UP TO 304 LB FLOOR SUPPORTED, VERTICAL LOAD TO BE SUPPORTED LATERALLY PER STUD (228 PLF FOR STUDS AT 16" O.C.) AT THE BASE CONDITION	USE FOR UPPER WALL HUNG CABINETS, SHELVING, MAIL SLOTS, AND DISPLAY CASES UP TO 1'-3" DEEP AND 3'-2" TALL AND BASE CABINETS, STORAGE CABINETS, BENCHES, CASEWORK UP TO 2'-0" DEEP AND 3'-0" TALL.	10-S9.00	10-S9.03	2 @ UPPER CONDITION. 1 @ BASE CONDITION	600T150-54 MIN. MATCH GA OF STUDS	3 #10 S.M
"F"	PARTITION WALL AT FLOOR SUPPORTED COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: -DISTRIBUTING UP TO 355 LB FLOOR SUPPORTED, VERTICAL LOAD TO BE SUPPORTED LATERALLY PER STUD (266 PLF FOR STUDS AT 16" O.C.).	USE FOR FULL HEIGHT CABINETS AND SHELVING UP TO 1'-0" DEEP AND 7'-0" TALL.	14-S9.00	10-S9.03	2	600T150-54 MIN. MATCH GA OF STUDS	3 #10 S.M.
"G"	PARTITION WALL AT FLOOR SUPPORTED COMPONENTS OR EQUIPMENT ON ONE SIDE OR BOTH SIDES OF THE WALL: -DISTRIBUTING UP TO 710 LB FLOOR SUPPORTED, VERTICAL LOAD TO BE SUPPORTED LATERALLY PER STUD (532 PLF FOR STUDS AT 16" O.C.).	USE FOR FULL HEIGHT CABINETS AND SHELVING UP TO 2'-0" DEEP AND 7'-0" TALL.	14-S9.00	10-S9.03	2	600T150-54 MIN. MATCH GA OF STUDS	3 #10 S.M
"H"	PARTITION WALL AT BATHROOM GRAB BARS SUPPORTING 250 POUND LOAD IN ANY DIRECTION, WALL MOUNT SNORKEL.	USE FOR BATHROOM GRAB BARS	9-S9.00	14-S9.03	1	600T150-68	5 #10 S.M

LOCATION	MAX. HT.	MIN. STUD SIZE	MAX. SPACING	LOAD CONDITION (NOTE 2)	DETAIL	NOTES
		400S137-33	16" O.C.	"A"		
1ST LEVEL &	15' 7"	400S137-43	16" O.C.	"B"	9	
2ND LEVEL	10-1	400S200-43	16" O.C.	"C" & "D"	10 14	2 PAF BOT PER STUD
		400S200-54	16" O.C.	"E"	14	3 PAF BOT PER STUD
	LEVEL 15'-7"	400S137-43	16" O.C.	"A"		
JKD LEVEL		400S137-43	16" O.C.	"B"	9	
		400S200-54	16" O.C.	"C", "D" & "E"	10 14	2PAF TOP AND 4 PAF BOT PER STUD

SMITHGROUP

301 BATTERY STREET 7TH FLOOR SAN FRANCISCO, CA 94111 415.227.0100 www.smithgroup.com

BKF Engineers 1646 N. California Blvd. #400 Walnut Creek, CA 94596 (925) 940-2200

Research Facilities Design 3965 Fifth Avenue, Suite 400 San Diego, CA 92103 (619) 297-0159

Rutherford & Chekene 375 Beale Street, Suite 310 San Francisco, CA 94105 (415) 568-4400

 Helping Planetarium Succeed

 PLANETARIUM PLANNING
 619 Orange Street Macon, GA 31201 (418) 750-7870

RHAA LANDSCAPE ARCHITECT 225 Miller Avenue Mill Valley, CA 94941 (415) 383-7900

Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070

TEECOM ACOUSTICS, VIBRATION, AV, TELECOM, SECURITY 1333 Broadway, Suite 601 Oakland, CA 94612 (510) 337-2800

The Fire Consultants, Inc. 1777 N. California Blvd. Suite 200 Walnut Creek, CA 94596 (925) 979-9993

SSUED FOR	REV	DATE
SSUED FOR BID		11 APR 2022

SEALS AND SIGNATURES

10418.000

MAX.	MAX.	MAX.	LOAD ²		JA	MB		HEADER	SILL	
PARTITION HT.	DOOR HT.	OPNG. HT.	COND.	NO. OF STUDS	STUDS/ DTL	TOP TRACK CONN.	BOT. TRACK CONN.	DETAIL	DETAIL	NOTES
15'-7"	7'-0"	5'-0"	A, B, C, D, E, F & G	2	3	4 2 PAF'S	7 ADD BENT PL CONNECTION	11	10	
15! 7"	7' ∩"	5' O"	A, B, C & D	2	3		ADD BENT PL	15	10	
10-7	7-0	5-0	E, F, & G	3	3	4 4 FAI 3		15	10	
15'-7"	7'-0"	5'-0"	A, B, C, D, E, F & G	3	3	4 PAF'S	7 ADD BENT PL CONNECTION	15	14	
15'-7"	7'-0"	5'-0"	A, B, C, D, E, F & G	3	3	4 PAF'S	7 ADD BENT PL CONNECTION	15	14	

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301 BATTERY STREET 7TH FLOOR SAN FRANCISCO, CA 94111 415.227.0100 www.smithgroup.com

BKF Engineers 1646 N. California Blvd. #400 Walnut Creek, CA 94596 (925) 940-2200

Research Facilities Design ABORATORY PLANNING 3965 Fifth Avenue, Suite 400 San Diego, CA 92103 (619) 297-0159

Rutherford & Chekene STRUCTURAL ENGINEER 375 Beale Street, Suite 310 San Francisco, CA 94105 (415) 568-4400

Helping Planetarium Succeed
PLANETARIUM PLANNINGThe Fire Consultants, Inc.FIRE PROTECTION 619 Orange Street Macon, GA 31201 (418) 750-7870

RHAA LANDSCAPE ARCHITECT 225 Miller Avenue Mill Valley, CA 94941 (415) 383-7900

Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070

TEECOM ACOUSTICS, VIBRATION, AV, TELECOM, SECURITY 1333 Broadway, Suite 601 Oakland, CA 94612 (510) 337-2800

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SEALS AND SIGNATURES

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BKF Engineers CIVIL ENGINEER 1646 N. California Blvd. #400 Walnut Creek, CA 94596 (925) 940-2200

Research Facilities Design 3965 Fifth Avenue, Suite 400 San Diego, CA 92103 (619) 297-0159

Rutherford & Chekene 375 Beale Street, Suite 310 San Francisco, CA 94105 (415) 568-4400

Helping Planetarium Succeed 619 Orange Street Macon, GA 31201 (418) 750-7870

RHAA LANDSCAPE ARCHITECT 225 Miller Avenue Mill Valley, CA 94941 (415) 383-7900

Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070

TEECOM ACOUSTICS, VIBRATION, AV, TELECOM, SECURITY 1333 Broadway, Suite 601 Oakland, CA 94612 (510) 337-2800

The Fire Consultants, Inc. FIRE PROTECTION 1777 N. California Blvd. Suite 200 Walnut Creek, CA 94596 (925) 979-9993

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SSUED FOR BID		11 APR 2022

SEALS AND SIGNATURES

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2 LEVEL 2 - ENLARGED CONSTRUCTION PLAN

1 LEVEL 2 - ENLARGED CONSTRUCTION PLAN DEMOLITION

A. EVERY BRANCH TAKEOFF TO A DIFFUSER OR GRILLE SHALL HAVE A MVD AS CLOSE TO THE MAIN AS POSSIBLE. EXCEPTION: DUCT-MOUNTED GRILLES.

B. REFER TO DSA APPROVED SPECIFICATION DIVISION 23 AND 25.

SHEET NOTES
1. MAINTAIN EXISTING DIFFUSER AND DUCT
2. INSULATE ALL NEW DUCTWORK TO MATCH EXISTING
3. REMOVE VAV-239.1 CO2 SENSOR AND DISCONNECT CONTROL ALGORITM AT BMS

AGENCY APPROVALS	
C-4016 SCIE CONFEREN CONV	CONTRA COSTA COLLEGE NCE CENTER CE ROOM 241 'ERSION
SMITHGR 301 BATTERY STR 7TH FLOOR SAN FRANCISCO, 415.227.0100 www.smithgroup.co	ROUP REET CA 94111 m
Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070	TEECOM ACOUSTICS, VIBRATION, AV, TELECOM, SECURITY 1333 Broadway, Suite 601 Oakland, CA 94612 (510) 337-2800 —
ISSUED FOR	REV DATE
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RO	OM 241A/241B
SHEET TITLE MECHANICA ENLARGEI RENOVATIO	L - LEVEL 2 D OFFICE DN PLANS
PROJECT NUMBER	10418.000

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GENERAL NOTES

- A. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES, ELECTRICAL DEVICES AND EQUIPMENT CONTROL SWITCHES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- B. INSTALL ALL EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDE.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MOUNTING HARDWARE, PARTS AND PIECES NECESSARY TO PROVIDE A FULLY FUNCTIONAL SYSTEM.
- D. FOR ALL CONDUITS CONTRACTOR SHALL PROVIDE STRUT CONDUIT SUPPORTS AS REQUIRED. ALL SUITABLE FOR OUTDOOR INSTALLATIONS, INCLUDING MOUNTING HARDWARE.
- E. COORDINATE AND VERIFY EXACT LOCATIONS OF ARCHITECTURAL, MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
- F. ALL NORMAL LIGHTING CIRCUITS ARE FROM PANEL SNHL-21.
- G. ALL EMERGENCY LIGHTING CIRCUITS ARE FROM PANEL SEHL-11.
- H. LIGHTING CONTROL PANEL SLCP-21 LOCATED IN ELECTRICAL ROOM 223 USED FOR LEVEL 2 LIGHTING CONTROL.
- I. REFER TO DRAWING E0.04 FOR LIGHTING CONTROL SEQUENCE OF OPERATIONS.

K. COORDINATE LOCATION OF REMOTE DRIVERS ABOVE CEILING ACCESSIBLE FOR MAINTENANCE WITH THE CONST. MANAGER.L. REFER TO DSA APPROVED SPECIFICATION DIVISION 26.

SHEET NOTES

- 1. DEDICATED CEILING RECEPTACLE FOR PROJECTOR POWER AND JUNCTION BOX BESIDE RECEPTACLE FOR PROJECTOR, DATA FOR TECHNOLOGY LECTERN TO BE DEMOLISHED.
- 2. POKE-THRU 120V RECEPTACLE/FURNITURE POWER CONNECTION TO REMAIN.
- POWER RECEPTACLE FOR FLAT SCREEN AND JUNCTION BOX BESIDE THE RECEPTACLE FOR AV CONNECTION TO FLAT SCREEN TO BE DEMOLISHED.

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ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFL	ABOVE FINISHED LEVEL
ALS	ASSISTIVE LISTENING SYSTEM
ANT	ANTENNA
ARF	ABOVE RAISED FLOOR
AVC	AUDIOVISUAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BDF	BUILDING DISTRIBUTION FACILITY
BFC	BELOW FINISHED CEILING
BICSI	BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL
С	CONDUIT
CAM	CAMERA
CAT3	CATEGORY 3 (UTP CABLE)
CAT5E	ENHANCED CATEGORY 5 (UTP CABLE)
CAT6	CATEGORY 6 (UTP CABLE)
CAT6A	AUGMENTED CATEGORY 6 (UTP CABLE)
CATV	COMMUNITY ANTENNA TELEVISION
CATVP	COMM. ANTENNA TELEVISION PLENUM
СВ	CEILING BOX
CMP	COMMUNICATIONS MEDIA PLENUM
CMR	COMMUNICATIONS MEDIA RISER
СР	CONTROL PANEL
CPU	CENTRAL PROCESSING UNIT
CTL	CONTROL
D	DEEP (DIMENSION)
DAS	DISTRIBUTED ANTENNA SYSTEM
DIV	DIVISION
DOC	VIDEO DOCUMENT CAMERA
DSP	DIGITAL SIGNAL PROCESSOR
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EMS	ELECTRICAL MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FB	FLOOR BOX
FO	FIBER OPTIC
FPD	FLAT PANEL DISPLAY
FTP	FOIL (SCREENED PER PAIR) TWISTED PAIR
GC	GENERAL CONTRACTOR
GRS	GALVANIZED RIGID STEEL
Н	HIGH (DIMENSION)
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IDS	INTRUSION DETECTION SYSTEM
IR	INFRARED
ISP	INSIDE PLANT
JB	JUNCTION BOX
L	LONG (DIMENSION)
LV	LOW VOLTAGE
LVI	LOW VOLTAGE INTERFACE
MBGRB	MAIN BUILDING GROUNDING REFERENCE BUS
MDF	MAIN DISTRIBUTION FACILITY
MH	MAINTENANCE HOLE
MIC	MICROPHONE
MMF	MULTIMODE (FIBER TYPE)

	ONS	NOT ALL ABBREV. MAY BE USED	
POE	MINIMUM POINT OF ENTRY		01 N
R	MAIN TELECOMMUNICATIONS ROOM		01 E
X	MATRIX		001
)	NEW		
;	NORMALLY CLOSED (SWITCH TYPE)		
С	NOT IN CONTRACT		
۶F	NETWORK PATCHING FACILITY		X1.01
)	NORMALLY OPEN (SWITCH TYPE)		
S	NOT TO SCALE		$\begin{pmatrix} 1 \\ \chi_{1,01} \end{pmatrix}$
)	ON CENTER		2
CI	OWNER FURNISHED, CONTRACTOR INSTALLED		
CP	OPTICAL FIBER CONDUCTIVE PLENUM		1 (X1.01) 3 -
CR	OPTICAL FIBER CONDUCTIVE RISER		
E	OWNER FURNISHED EQUPMENT		<u>M</u>
01	OWNER FURNISHED, OWNER INSTALLED		
NP	OPTICAL FIBER NON-CONDUCTIVE PLENUM		X1.01
NR	OPTICAL FIBER NON-CONDUCTIVE RISER		
šΡ			
ıL)			
	PROJECTOR		
	PROJECTION SCREEN		
U	POWER SUPPLY		
	POKE-THROUGH DEVICE		
Z	PAN/TILT/ZOOM (CAMERA)		IDF-XXX.##
Ċ	POLYVINYL CHLORIDE		
X	REQUEST TO EXIT		F
	RADIO FREQUENCY		E E E E E E E E E E E E E E E E E E E
<u> </u>	RECEIVER		TELECOMMUNICATION SEF
D	SEE ARCHITECTURAL DRAWINGS		
С	SECURITY EQUIPMENT CABINET		SERVED FROM IDF-11.01
D	SEE ELECTRICAL DRAWINGS		DEVICE OUTLETS SERVED FROM IDF-11.01
1M	SINGLEMODE (FIBER TYPE)		
κ	LOUDSPEAKER		
TP	SCREENED (OVERALL) TWISTED PAIR		
R	STRANDS (OF FIBER OPTIC CABLE)		
P	SHIELDED (PAIRS AND OVERALL) TWISTED PAIR		AV OUTLET/I
в			AV OUTLET/I
MM			
IVIIVI	MANUAL		
iΒ	TELECOM GROUNDING BUSBAR		
Ą	TELECOMMUNICATIONS INDUSTRY ASSOCIATION		
IGB	TELECOM MAIN GROUNDING BUSBAR		
	TERMINAL PANEL		
	TELECOMMUNICATIONS ROOM		
-			
1			
D			
r NN			
PS			
P	UNSHIELDED TWISTED PAIR		
	VOLTS		
;	VOLUME CONTROL		
S	VIDEO SURVEILLANCE SYSTEM		
٩P	WIRELESS ACCESS POINT		
	WIDE (DIMENSION)		
3	WALL BOX		
C	WEATHERPROOF		
MR	TRANSFORMER		

I	LE SHEET	THE PURPOSE OF SYMBOL, OR SYS USED AS PART O	THIS SHEET IS TO ILLUSTRATE A TEM OF SYMBOLS, ON THIS SHEE F THIS PROJECT. REFER TO THE (ND DEFINE GRAPHIC SYMBOLS WHICH I DOES NOT NECESSARILY INDICATE T COMPLETE DRAWING PACKAGE AND S	H MAY OCCUR ON THE TECHNOLOGY E THAT THE BUILDING COMPONENT REF SPECIFICATIONS TO DETERMINE THE {	RAWING SET. THE II RESENTED SYSTEM COPE OF THE WORK	LLUSTRATION BY THE SYMB({
	GENERAL NOTES) ALL EETS S SET		SHEET I	INDEX		
	APPLIES TO SHE IN THIS NERAL: THE TECHNOLOGY DRAWINGS ARE A SUBSET OF A LARGER SET OF DRAWINGS. AS A SUBSET, WORK DESCRIBED IN THE TECHNOLOGY DRAWINGS REQUIRES REFERENCE TO DRAWINGS OF OTHER DISCIPLINES FOR A COMPLETE UNDERSTANDING OF THE TRUE SCOPE OF WORK. REFER TO THE COMPLETE DRAWING PACKAGE AND SPECIFICATIONS TO DETERMINE THE SCOPE OF THE WORK. THE WORK, INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC., AND INCLUDING SEISMIC BRACING, SHALL COMPLY WITH OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING LAWS, ORDINANCES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK. ADDITIONALLY, THE CONTRACT DOCUMENTS MAY REQUIRE ADDITIONAL COMPLIANCE OVER AND ABOVE THOSE IDENTIFIED IN THIS SUBSET. MANAGE, SUPERVISE, REVIEW, AND COORDINATE THE WORK OF SUB-CONTRACTORS, TRADES, AND SUPPLIERS PER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS PROR TO COMMENCING SPECIFIC WORK TO ASSURE EACH INDIVIDUAL PERFORMING THE WORK ARE AWARE AND UNDERSTAND THE REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR WITHIN THE CONTRACT DOCUMENTS PIOR TO COMMENCING SPECIFIC WORK TO ASSURE EACH INDIVIDUAL PERFORMING THE WORK ARE AWARE AND UNDERSTAND THE REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS MAY WITHIN THE CONTRACT DOCUMENTS PIOR TO COMMENCING SPECIFIC WORK TO ASSURE EACH INDIVIDUAL PERFORMING THE WORK ARE AWARE AND UNDERSTAND THE REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR WITHIN THE CONTRACT DOCUMENTS PIOR TO COMMENCING SPECIFIC WORK TO ASSURE EACH INDIVIDUAL PERFORMING THE WORK ARE AWARE AND UNDERSTAND THE REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR WITHIN THE CONTRACT DOCUMENTS AND DRAWINGS SAT THE JOB SITE. PRESENT THE SPECIFICATIONS AND DRAWINGS UPON REQUEST. MAINTAIN DAILY MARKUPS OF THE ACTUAL INSTALLATION AND PRESENT FOR REVIEW UPON REQUEST. SYMBOLOGY USED IN THE TECHNOLOGY DRAWINGS IS DIAGRAMMATIC AND NOT INTENDED TO IDENTIFY THE EXACT FIXED POSITION OF AN OUTLET OR DEVICE. THE ARCHITECTURAL DRAWINGS ESTABLISH THE FINISHED APPEARANCE AND EXACT LOCATION	ALL ETS SET T0.0.1.V2 T0.0.2.V2 T0.0.3.V2 T2.0.2 T4.0.30 REFER TO INC	TITLE SHEET AND INDEX PATHWAY REQUIREMENTS SCHEDULES FLOOR PLAN - LEVEL 2 ROOM PLAN - MEETING ROOM CLEMENT 2 DRAWINGS FOR DIAGR	SHEET TITLE	INDEX 03.11.2022 ISSUED FOR BID 0.11.2022 ISSUED FOR BID 0.4.11.2022 ISSUED FOR BID		G
•	PROVIDE MATERIALS AND EQUIPMENT LISTED BY UNDERWRITERS LABORATORIES FOR THE PURPOSE USED AND BEARING THEIR LABEL.						
	PRIOR TO PERFORMING WORK, IDENTIFY AND IMMEDIATELY NOTIFY THE OWNER, OR OWNER'S REPRESENTATIVE, IN WRITING OF ANY CONDITION THAT PREVENTS INSTALLATION ACCORDING TO DRAWINGS AND SPECIFICATIONS.						
0.	REMOVE ABANDONED CABLING, LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM THE WORK. PROPERLY RECYCLE MATERIAL ACCORDING TO CODE AND PROJECT REQUIREMENTS.						
1.	INSTALL TELECOMMUNICATIONS SYSTEMS PER BICSI TDMM, AND PER TIA 568 TELECOMMUNICATIONS STANDARDS (568 SERIES, 569 "TELECOMMUNICATIONS PATHWAYS AND SPACES", 606 STANDARD, 607, 758, AND 942).						

AV OUTLET/DEVICE, FLOOR MOUNT AV OUTLET/DEVICE, CEILING MOUNT

12. WHEN IDENTIFIED ON THESE DRAWINGS, MOUNTING HEIGHTS ARE REFERENCED FROM THE FINISHED FLOOR TO THE CENTERLINE OF

15. WHEN PULLING CABLES INTO CONDUITS AND/OR SLEEVES, FULLY OCCUPY A GIVEN CONDUIT AND/OR SLEEVE BEFORE MOVING TO THE NEXT (THIS WILL INCREASE UTILIZATION EFFICIENCY AND FUTURE FLEXIBILITY OF THE SPARE CONDUITS/SLEEVES). ADHERE TO

16. ROUTE CABLES PERPENDICULAR OR PARALLEL TO BUILDING LINES. ROUTE CABLES NO LESS THAN 6 INCHES FROM AN ADJACENT POWER SOURCE OR LIGHTING FIXTURE, AND NO LESS THAN 4 FEET FROM A TRANSFORMERS OR MOTOR. 17. DO NOT ATTACH CABLES TO OTHER STRUCTURES NOT INTENDED FOR CABLE SUPPORT. DO NOT TIE CABLES TO CABLE TRAYS.

18. WHEN PLACING CABLES IN CABLE HANGERS, CABLE SAG BETWEEN HANGERS SHALL NOT BE CLOSER TO THE CEILING THAN 200-250 19. LABEL EACH CABLE AT BOTH ENDS ACCORDING TO DRAWINGS AND/OR SPECIFICATIONS.

21. DO NOT INSTALL COMPONENTS (I.E., PIPING, DUCTWORK, PNEUMATIC TUBING, ETC.) WITHIN OR THAT PASS THROUGH TELECOMMUNICATIONS ROOMS NOT RELATED TO THE SUPPORT OF THE ROOMS' FUNCTION. 22. LOCATE PIPES AND OTHER TUBING COMPONENTS CONTAINING LIQUID OUTSIDE OF TELECOMMUNICATIONS ROOMS.

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	C-4016 SCIE CONFEREN	ENCE CENTER
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	SMITHGE	ROUP
	301 BATTERY STE 7TH FLOOR	REET
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	Internal One	TEFOON
	Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070	<u>ACOUSTICS, VIBRATION, AV,</u> <u>TELECOM, SECURITY</u> 50 California St, Suite 1500 San Francisco, CA 94111
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TECHNOLOGY PATHW	AYS REQUIRE MENTS	APPLIES ALL SHE
CABLE TRAY SYSTEMS	INSIDE PLANT CONDUIT SYSTEMS	PATHWAYS SYMBOLS REFER TO FLOOR PLANS, RC AND ROOM PLANS FOR S QUANTITY, AND LAYO
CABLE TRAY SYSTEMS ACCORDING TO STATE CODES, LOCAL CODES, AND REGULATORY REQUIREMENTS, INCLUDING BRACING. INSTALL CABLE TRAY SYSTEMS PER TIA-569-D AND BICSI TDMM. /SUSPENSION METHODS: THE SUPPORT/SUSPENSION METHODS BELOW ARE APPROVED FOR LADDER, TROUGH, AND WIRE BLE TRAY TYPES ON THIS PROJECT.	 PROVIDE CONDUIT SYSTEMS, PULL BOXES, JUNCTION BOXES, DEVICE BOXES, OUTLET BOXES, PATHWAYS, SEISMIC BRACING, AND OTHER INFRASTRUCTURE SYSTEMS ACCORDING TO LOCAL CODES, REGULATORY REQUIREMENTS, TIA 569, AND BICSI TDMM. ROUTE CONDUITS FROM WORK AREA OUTLET (WAO) TO CABLE TRAYS. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN WITH DIMENSIONS. DETERMINE FINAL CONDUIT ROUTES TO SUIT FIELD CONDITIONS WHILE CONFORMING TO THE DESIGN INTENT, DRAWINGS, AND SPECIFICATIONS. COORDINATE THE CONDUIT SYSTEM INSTALLATION REQUIREMENTS WITH OTHER TRADES. 	CABLE TRAY CONDUIT 12"Wx6"D SINGLE LINE WIRE MESH CABLE TRAY CONDUIT RUN CABLE TRAY (WIDTH x DEPTH + TYPE) CONDUIT TURNED UP CONDUIT TURNED DOWN
TRAPEZE	 FOR EACH PENETRATION THROUGH FIRE BARRIERS AND SMOKE BARRIERS, PROVIDE APPROVED UL LISTED FIRE STOP SYSTEMS (SEE "THROUGH PENETRATIONS" MATRIX ON THIS SHEET) TO MAINTAIN THE SEPARATION RATING. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. 	12"Wx6"D CONDUIT RUN IN SLAB, UNDER LADDER CABLE TRAY SLAB OR UNDERGROUND CABLE TRAY (WIDTH x DEPTH + TYPE) DOUBLE LINE CONDUIT RUN CONDUIT RUN CONDUIT RUN CONDUIT RUN
AY SYSTEMS MAY SHARE SUPPORT/SUSPENSION SYSTEMS WITH OTHER TRADES/SYSTEM, SUCH AS TRAPEZE SUPPORTS. IF COORDINATE ROUTES AND CONFIGURATIONS WITH OTHER TRADES. AY ROUTING SHOWN IS DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN WITH DIMENSIONS. FIELD DETERMINE CABLE TRAY TO SUIT FIELD CONDITIONS WHILE CONFORMING TO THE DESIGN INTENT, DRAWINGS, AND SPECIFICATIONS. COORDINATE AY SYSTEM INSTALLATION WITH OTHER TRADES.	 PROVIDE DEFLECTION FITTINGS AT STRUCTURAL EXPANSION JOINT CROSSINGS. PROVIDE DEDICATED SUPPORTS (DO NOT SHARE SUPPORTS WITH OTHER TRADES/SYSTEMS OTHER THAN SYSTEMS IDENTIFIED IN THIS SET OF DRAWINGS) FOR CONDUIT SYSTEMS/DUCT BANKS INTENDED FOR LOW VOLTAGE SYSTEM CABLES, UNLESS APPROVED BY THE ENGINEER. 	12"W CABLE RUNWAY CABLE RUNWAY (WIDTH ONLY) CABLE RUNWAY (WIDTH ONLY) CONDUIT TAG (4) 1/2" C ((Q) S" C)
ABLE TRAYS PARALLEL TO BUILDING LINES WHERE POSSIBLE. DLE: CABLE TRAYS SHALL BE ACCESSIBLE [ALSO PER 392.18(E)]. IS GREATER THAN 2-3 METERS (7-10 FEET) OVER INACCESSIBLE CEILINGS (E.G., HARD LID CEILING), TRANSITION CABLE TRAY	 PREPARE SHOP DRAWINGS SHOWING THE FOLLOWING: CONDUIT/DUCT BANK ROUTES, SHOWING CONDUIT TYPES, SIZES, AND QUANTITIES PER PENETRATION (E.G., FLOORS, FRAMED WALLS, CONCRETE WALLS, ETC.), INDICATE PENETRATION TYPE (E.G., EMT SLEEVE, UL FIRESTOPPING SYSTEM, SMOKE BARRIER, ETC.), SIZE, AND QUANTITY PER PULL BOX LOCATION, INDICATE BOX TYPE, SIZE, CONFIGURATION, AND RELATED INSTALLATION DETAILS PER OUTLET, DEVICE, BACK BOX, AND JUNCTION BOX LOCATION, INDICATE BOX TYPE, SIZE, CONFIGURATION, AND RELATED INSTALLATION, AND RELATED 	SLEEVES CONDUIT SLEEVE FIRESTOP SLEEVE CONDUIT SLEEVE AT FLOOR COOO AT FLOOR (4) 1/2" C ((Q) S" C) Q = QUANTITY S = TRADE SIZE
JIT, UON. TRANSITION CONDUITS' LOADING AREA SHALL EQUAL OR EXCEED CABLE TRAY'S LOADING AREA - ADHERE TO FILL REQUIREMENTS AND TO "CABLE TRAY TRANSITION EQUIVALENCY TABLE". PROVIDE ONE ADDITIONAL SPARE CONDUIT SIZE. HANGE CABLE TRAY DIRECTION OVER AN INACCESSIBLE CEILING.	 ROUTE CONDUITS/DUCT BANKS PARALLEL TO BUILDING LINES WHERE POSSIBLE. CONDUIT RUNS SHALL HAVE NO MORE THAN 180 TOTAL DEGREES OF BENDS BETWEEN PULL BOXES, AND NO SINGLE BEND SHALL EXCEED 90 DEGREES. OPTION: IF ADDITIONAL BENDS ARE REQUIRED, INCREASE THE CONDUIT RUN ONE TRADE SIZE WHILE NOT EXCEED NO DEGREES. OPTION: IF ADDITIONAL BENDS ARE REQUIRED, INCREASE THE CONDUIT RUN ONE TRADE SIZE WHILE NOT EXCEED NO DEGREES. IN THE LAST DESID IS MUTULAN INCREASE THE CONDUIT RUN ONE TRADE SIZE WHILE NOT EXCEED NO. 	
TIONS: FOR EACH PENETRATION THROUGH FIRE BARRIERS, SMOKE BARRIERS, AND SMOKE PARTITIONS, PROVIDE D AND UL LISTED FOR THE APPLICATION FIRE STOP SYSTEMS TO MAINTAIN THE FIRE SEPARATION RATING. COORDINATE MENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. MIXING PRODUCTS BETWEEN MANUFACTURED ES IS PROHIBITED. RAL JOINT: AT STRUCTURAL JOINT CROSSINGS. TRUNCATE CABLE TRAY AND PROVIDE SEPARATION PER STRUCTURAL	 9. BUILDING STRUCTURE IS NOT DESIGNED FOR CONDUIT EMBEDDED IN THE CONDUIT RUL SLAB OVER METAL DECK. UNLESS SLAB, COMPOSITE BEAMS, AND DIAPHRAGM ARE REDESIGNED AND THE CONDUIT ROUTES ARE DIMENSIONED ON PLAN, REMOVE ALL 	THE TABLE BELOW LISTS THE FIRESTOPPING SYSTEMS APPROVED FOR PENETRATIONS OF FIRE BARRIERS AND SMOKE BARRIERS. APPLY THE PROPER UL SYSTEM TO THE BARRIER BEING PENETRATED AND THE PENETRANT TO MEET THE REQUIRED F AND T RATINGS. MIXING
VENTS TO ACCOMMODATE THE CALCULATED DEFLECTION. IF SEPARATION IS GREATER THAN 12 INCHES, PROVIDE CABLE TO SUPPORT CABLES BETWEEN TRAY SECTIONS. IN JOINTS: WHERE REQUIRED (SUCH AS OUTDOOR INSTALLATIONS), PROVIDE THERMAL EXPANSION JOINTS AT INTERVALS VMODATE THE CALCULATED EXPANSION.	 PROVISIONS FOR CONDUIT EMBEDDED IN THE CONCRETE SLAB OVER DECK. FURTHER, CONDUIT IN SLAB VOIDS THE FIRE RATIN OF THE SLAB. 10. CONDUIT BENDS SHALL NOT EXCEED THE FOLLOWING RADII: CONDUITS LESS THAN 2-INCH TRADE SIZE: SIX TIMES THE INSIDE DIAMETER CONDUITS 2-INCH TRADE SIZE OR GREATER : TEN TIMES THE INSIDE DIAMETER 	PRODUCTS AND/OR COMPONENTS BETWEEN SYSTEMS IS PROHIBITEDFOR QUANTITY OF SYSTEMS, REFER TO "CABLE TRAY -TO- SLEEVE TRANSITION EQUIVALENCY TABLE" (THIS SHEET). SUBSTITUTIONS MAY BE ALLOWED. SUBMIT A SUBSTITUTION REQUEST FOR SYSTEMS DIFFERING FROM THOSE LISTED BELOW. PENETRANT UL SYSTEM # F RATING T RATING COMMENTS
LE TRAY SYSTEM TO APPROVED GROUNDING POINT. BOND SECTIONS AND FITTINGS AT JUNCTIONS.	11. FOR BACKBONE PATHWAYS, PROVIDE EMT TYPE 4-INCH TRADE SIZE CONDUIT.	CONCRETE FLOORS AND WALLS
	 PROVIDE INSULATED OR GROUNDED BUSHINGS ON EXPOSED ENDS OF CONDUITS AND SLEEVES. BOND ONE END (NOT BOTH ENDS) OF CONTINUOUS CONDUIT RUNS TO THE APPROVED GROUNDING BUS SYSTEM. 13. REFER TO ROUGH-IN SCHEDULE FOR CONDUIT REQUIREMENTS. IF NOT EXPRESSLY STATED. PROVIDE ONE EMT TYPE 1-INCH TRADE 	SINGLE EZ-PATH SLEEVE C-AJ-3260 1 HR OR 2 HR 0 HR OR 1/2 HR T RATING FOR >20% FILL MULTIPLE EZ-PATH SLEEVES F-A-3037 2 HR AND 3 HR 0 HR APPLICABLE TO FLOORS: F RATING = FLOOR RATING
TO MEET THE FOLLOWING MINIMUM CLEARANCE REQUIREMENTS:	SIZE CONDUIT AND ONE 4 11/16"x4 11/16"x2 7/8"D MIN BOX FOR TELECOMMUNICATIONS OUTLETS. 14. PROVIDE A DEDICATED CONDUIT STUB PER OUTLET/DEVICE/BACK BOX. DAISY-CHAINING OUTLET BOXES IS PROHIBITED UNLESS	F-A-3037 F-A-3037 F-A-3037 F-A-3037 MULTIPLE EZ-PATH SLEEVES WITH DUCT WRAP 2 HR AND 3 HR 2 HR F RATING = FLOOR RATING, T RATING REQUIRES TRK444 KIT OR DUCT W
SIDE CLEARANCE	SPECIFICALLY NOTED ON PLANS. 15. CONSOLIDATION OF WORK-AREA CONDUITS IS ALLOWED. THE CONSOLIDATED CONDUIT CAPACITY SHALL BE EQUAL TO OR GREATER	SINGLE CONDUIT C-AJ-1353 (OR C-AJ-1080) 3 HR (3 HR) 0 HR (0 HR) 0 4/4 4/9 2/4
Image: state	THAN THE AGGREGATE CAPACITY OF THE WORK-AREA CONDUITS. PROVIDE APPROVED JUNCTION AND OR PULL BOXES FOR CONDUIT CONSOLIDATION.	MULTIPLE CONDUITS C-AJ-8113 2 HR 0, 1/4, 1/2,3/4, AND 2 HR SINGLE CONDUIT IN C A L 2246 2 HR 1/2 HR
*	16. CONDUIT BODIES ("LB" FITTINGS, ETC.) ARE PROHIBITED FOR USE IN TELECOMMUNICATIONS AND AUDIOVISUAL SYSTEM PATHWAYS. THEY ARE ALLOWED FOR USE IN SECURITY SYSTEM PATHWAYS.	FLOOR WITH CABLES C-AJ-3210 Z HR 1/2 HR REQUIREMENTS FOR CAST-IN-PLACE MULTIPLE CONDUITS IN FLOOR WITH CABLES C-AJ-3216 2 HR 1/2 HR CONDUITS SHALL MEET STRUCTURAL REQUIREMENTS FOR CAST-IN-PLACE
ETERS (6 FEET). FOR EXAMPLE, A MECHANICAL DUCT MAY PASS DIRECTLY OVER THE TRAY. AY -TO- SLEEVE ALIGNMENT: WHEN TRANSITIONING FROM CABLE TRAY TO SLEEVES (E.G., TO PENETRATE A FULL HEIGHT	17. PROVIDE A PULL STRING IN EACH CONDUIT RUN BETWEEN CONDUIT ENDS; LEAVE WORKING SLACK IN THE PULL STRING AT EACH END; TIE OFF SLACK TO PREVENT RECOIL (BACK INTO THE CONDUIT). PULL STRINGS SHALL BE CONTINUOUS AND WITHOUT KNOTS, KINKS, ETC. PULL STRING STRENGTH SHALL BE 200 LB, MINIMUM.	SINGLE CONDUIT IN WALL WITH CABLES W-J-3199 2 HR 3/4 HR, 1 HR
N), ALIGN THE SLEEVES TO THE TRAY PER THE TOLERANCES DESCRIBED BELOW. THESE ALIGNMENT REQUIREMENTS APPLY ATH SLEEVES, SPEEDSLEEVES, AND EMT SLEEVES.	18. WHEN BOXES FACE OPPOSITE SIDES OF FRAMED WALLS, INSTALL OUTLET/DEVICE/BACK BOXES WITH AT LEAST ONE STUD BAY OR 24 INCHES SEPARATION BETWEEN BOXES.	MULTIPLE CONDUITS IN WALL WITH CABLES W-J-3200 2 HR 1/4 HR
	19. OVER INACCESSIBLE CEILINGS (E.G., HARD LID CEILING), PROVIDE CONDUITS FOR LOW VOLTAGE SYSTEMS CABLING. WHEN TRANSITIONING FROM CABLE TRAY, REFER TO SIZING REQUIREMENTS LISTED UNDER "CABLE TRAY SYSTEMS" ON THIS SHEET.	CABLES IN SLEEVE C-AJ-8113 WITH WRAP 2 HR 0, 1/4, 1/2, 3/4, OR 2 HR T RATING REQUIRES COOLANT WRAP
	OUTSIDE PLANT CONDUIT SYSTEMS	CABLES IN SLEEVE C-AJ-3134 Z, 3, AND 4 HR HR
		FRAMED WALLS
SINGLE ROW MULTIPLE ROWS OFFSET	PROVIDE CONDUIT SYSTEMS, PULL BOXES, HAND HOLES, SEISMIC BRACING, ETC. ACCORDING TO STATE AND LOCAL CODES, REGULATORY REQUIREMENTS, TIA 569, AND BICSI TDMM.	SINGLE AND/OR MULTIPLE W-L-3306 1 HR OR 2 HR 1, 1-1/2, AND 2 HR F RATING = WALL RATING CONCLE ODEED01 EE/E ONOLE ODEED01 EE/E E DATING - NALL DATING
NOW BEFORE THE TOP ROW.	 CONDUCT ROUTING SHOWN IS DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN WITH DIMENSIONS. DETERMINE FINAL CONDUCT ROUTES TO SUIT FIELD CONDITIONS WHILE CONFORMING TO THE DESIGN INTENT, DRAWINGS, AND SPECIFICATIONS. COORDINATE THE CONDUCT SYSTEM INSTALLATION REQUIREMENTS WITH OTHER TRADES. 	SINGLE SPEEDSLEEVE (2" AND/OR 4") W-L-3334 1, 2, 3, OR 4 HR 0, 1/2, 1, 1-1/2, 2 HR F RATING = WALL RATING T RATING - REFER TO UL DETAIL NUU TIPLE OPEEDOLEEVEO F RATING = WALL RATING
RAY -TO- SLEEVE TRANSITION EQUIVALENCY TABLE	3. IN ABOVE GROUND INSTALLATION OF PVC CONDUITS, PROVIDE EXPANSION FITTINGS TO ACCOUNT FOR THERMAL EXPANSION.	MULTIPLE SPEEDSLEEVES (2" AND/OR 4") W-L-3395 1 HR TO 2 HR 1/4 HR 16" GANGPLATE WITH 3 SPEEDSLEEVES, 24" GANGPLATE WITH 4 SPEEDSLEEVES
OW LISTS THE EQUIVALENCIES BETWEEN CABLE TRAY LOADING AREA AND THE CORRESPONDING QUANTITY OF SLEEVES -	 PREPARE SHOP DRAWINGS SHOWING THE FOLLOWING: CONDUIT/DUCT BANK ROUTES, SHOWING CONDUIT TYPES, SIZES, AND QUANTITIES PULL BOX LOCATIONS, SHOWING BOX TYPE, SIZE, AND CONFIGURATION 	SINGLE SLEEVE KIT W-L-3394 1 HR OR 2 HR 0 HR, 3/4 HR, 1 Hr F RATING = WALL RATING MULTIPLE SLEEVES KIT MULTIPLE SLEEVES KIT MULTIPLE SLEEVES KIT MULTIPLE SLEEVES KIT
ATED. APPLY THIS TABLE TO DETERMINE THE REQUIRED QUANTITY OF SLEEVES PER CABLE TRAY LOADING AREA WHEN G FROM TRAY TO SLEEVES (E.G., TO PASS THROUGH FULL HEIGHT WALLS).	 INSTALLATION DETAILS, SHOWING TRENCH SECTIONS, PULL BOX BUTTERFLY DETAILS, ETC. CONDUIT RUNS, REGARDLESS OF THE QUANTITY OF SEGMENTS, SHALL NOT EXCEED A TOTAL OF 180 DEGREES WITHOUT AN ADDRODULATE DUIL BOX AND NO SINGLE BEND CLALL EXCEED 10 DECREES 11 	WITH PLUG (2" OR 4") W-L-3395 1 HR OR 2 HR 1/4 HR F RATING = WALL RATING EMT SLEEVE WITH CABLES W-L-3210 1 HB OR 2 HR 3/4 HR E RATING = WALL RATING
O THE "THROUGH PENETRATIONS" TABLE FOR APPROVED UL SYSTEMS WHEN PENETRATING FIRE BARRIERS, SMOKE D/OR SMOKE PARTITIONS.	 PLACE CONDUITS INTO GRADE AND ENCASEMENT (WHERE REQUIRED) WITH A GRADUATED BEND RADIUS OF 40 TIMES THE CONDUIT SIZE TO MUTICATE CARACITY REPLICTION, PROVIDE 00 DECREE EL ROMO ONLY WHERE ADDROVED IN WRITING BY THE 	SINGLE EMT CONDUIT W-L-1222 1 HR AND 2 HR 1/4, 3/4, AND 1 HR F RATING = WALL RATING
TRAY-TO-SLEEVE EQUIVALENCY CHART	ENGINEER/OWNER (E.G., THROUGH THE SHOP DRAWING PROCESS), SUCH AS TURNING UP THROUGH CONCRETE FLOOR.	MULTIPLE EMT CONDUITS W-L-1168 1 HR AND 2 HR 1/4, 3/4, AND 1 HR F RATING = WALL RATING
CABLE TRAY EQUIVALENT SLEEVE QUANTITY	 CONDUITS LESS THAN 2-INCH TRADE SIZE: SIX TIMES THE INSIDE DIAMETER CONDUITS 2-INCH TRADE SIZE OR GREATER : TEN TIMES THE INSIDE DIAMETER 	
EEVE 2 3 4+	 FOR BACKBONE PATHWAYS, PROVIDE EMT TYPE 4-INCH TRADE SIZE CONDUIT. PROVIDE THREADED INSULATE OR GROUND BUSHINGS ON EXPOSED ENDS OF CONDUITS WITH IN PULLBOXES. PROVIDE THREADED GROUND BUSHINGS ON EXPOSED ENDS OF CONDUITS WITHIN TELECOM ROOM. BOND ONE END (NOT BOTH ENDS) OF CONTINUOUS CONDUIT RUNS TO THE APPROVED GROUNDING BUS SYSTEM. CONDUITS SHALL NOT BE EMBEDDED IN THE SLAB. 	FOR PENETRATIONS OF FULL HEIGHT PARTITIONS ABOVE ACCESSIBLE CEILINGS, PROVIDE APPROVED RATED SLEEVES OR APPROVED FIRESTOP SYSTEM. FOR PENETRATIONS ABOVE INACCESSIBLE CEILINGS, PROVIDE EMT CONDUIT THAT SPANS THE DISTANCE OF THE INACCESSIBLE CEILING, INCLUDING THE PENETRATION THROUGH THE BARRIER. THE DIAGRAM BELOW CONCEPTUALLY ILLUSTRATES THE REQUIREMENT:
LOADING CAPACITY I I I I I I I I I I I I I I I I I I	10. PROVIDE A PULL STRING IN EACH CONDUIT RUN BETWEEN CONDUIT ENDS; LEAVE WORKING SLACK IN THE PULL STRING AT EACH END; TIE OFF SLACK TO PREVENT RECOIL (BACK INTO THE CONDUIT). PULL STRINGS SHALL BE CONTINUOUS AND WITHOUT KNOTS, KINKS, ETC. PULL STRING STRENGTH SHALL BE 200 LB, MINIMUM.	
MLLA SO MENTILL SO SO <td>11. PROVIDE TWO 3-CELL FABRIC SUBDUCTS PER 4-INCH CONDUIT.</td> <td>BARRIER</td>	11. PROVIDE TWO 3-CELL FABRIC SUBDUCTS PER 4-INCH CONDUIT.	BARRIER
24 12 2 4 20 3 12 5 3 4 9 36 18 3 6 29 4 18 7 4 6 14 <		SLEEVE CONDUIT
27 13.5 3 5 22 3 14 6 3 4 11 36 18 3 6 29 4 18 7 4 6 14		
54 27 5 9 44 6 27 11 5 8 21 11		ACCESSIBLE CEILING ACCESSIBLE CEILING ACCESSIBLE CEILING ACCESSIBLE CEILING
90 45 8 15 72 9 45 17 8 13 34 108 54 9 18 87 11 54 21 10 16 41		
24 12 2 4 20 3 12 5 3 4 9 36 18 3 6 29 4 18 7 4 6 14		
48 24 4 8 39 5 24 9 5 7 18 1 1 27 72 36 6 12 58 7 36 14 7 11 27		
96 48 8 16 77 9 48 18 9 14 36 120 60 10 20 96 12 59 23 11 17 45		
144 72 12 24 116 14 71 27 13 21 54 30 15 3 5 24 3 5 24 5 5 15 16		
45 22.5 4 8 36 5 23 9 4 7 17 60 20 5 40 40 5 23 9 4 7 17		
00 30 5 10 48 6 30 12 6 9 23 90 45 8 15 72 9 45 17 8 13 34 10		
120 60 10 20 96 12 59 23 11 17 45 150 75 12 25 120 14 74 28 13 22 56		
180 90 15 30 144 17 89 34 16 26 68 6		
54 27 5 9 44 6 27 11 5 8 21 72 36 6 12 58 7 36 14 7 11 27		
108 54 9 18 87 11 54 21 10 16 41 144 72 12 24 116 14 71 27 13 21 54		
12 12 24 110 14 11 21 13 21 54 180 90 15 30 144 17 89 34 16 26 68		
216 108 18 36 173 21 107 41 19 31 81		
		I

		AGI
	TECHNOLOGY SYSTEMS PATHWAY SERVICES ROUGH-IN SCHEDULE	
	SYMBOL ATTRIBUTES BOX COVER/RING MOUNTING DETAIL	NUMBERED COMMENTS
A A	A2 STANDARD WALL OUTLET, +18" FLUSH IN WALL, +18" AFF • (1) 1 1/4" CONDUIT SQUARE BOX, 5"SQ x 2 7/8"D ONE GANG	1, 5
Sales and the second	SCHEDULE COMMENTS: GENERAL COMMENTS: 1. PROVIDE CONDUIT STUB FROM NEAREST CABLE TRAY TO BOX AVOID PENETRATING RATED BARRIERS IF A PENETRATION THROUGH A 7. MOUNT OUTLET BOX TO THE SIDE OF THE WAP BRACKET A. HEIGHTS SHOWN IN THIS SCHEDULE ARE DEFAULT. UON, ALSO REFER TO ARCHITECTURAL DRAWINGS, PARTICULARLY	
	RATED BARRIER IS REQUIRED, THEN MEET THROUGH PENETRATIONS REQUIREMENTS. PROVIDE A PULL STRING PER CONDUIT. 8 PRIOR TO ROUGH-IN, VERIFY WITH THE SYSTEM VENDOR DEVICE BOX AND COVER/RING TYPE AND SIZE REQUIREMENTS. THE BOX AND 2 PROVIDE CONDUIT FROM TELECOM ROOM HOME RUN TO ELEVATOR MACHINE ROOM AND TERMINATE AT ELEVATOR CONTROL PANEL. 8 PRIOR TO ROUGH-IN, VERIFY WITH THE SYSTEM VENDOR DEVICE BOX AND COVER/RING TYPE AND SIZE REQUIREMENTS. THE BOX AND 2 PROVIDE CONDUIT FROM TELECOM ROOM HOME RUN TO ELEVATOR MACHINE ROOM AND TERMINATE AT ELEVATOR CONTROL PANEL. 6 COVER/RING TYPE AND SIZE REQUIREMENTS. THE BOX AND 2 PROVIDE CONDUIT FROM TELECOM ROOM HOME RUN TO ELEVATOR MACHINE ROOM AND TERMINATE AT ELEVATOR CONTROL PANEL. 6 COVER/RING TYPE AND SIZE LISTED IN THIS SCHEDULE ARE DEFAULT. 2 PROVIDE CONSOLIDATED AT A JUNCTION BOX (SEE CONSOLIDATION REQUIREMENTS ON 10.0.2). COORDINATE INSTALLATION 8 PRIOR TO ROUGH-IN, VERIFY WITH THE SYSTEM VENDOR DEVICE BOX AND COVER/RING TYPE AND SIZE REQUIREMENTS. THE BOX AND 3 BOND DEVICE BOX TO APPROVED GROUND. 8 WHERE OUTLET/DEVICE IS SHARED WITH ELECTRICAL, REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION	
	 WTH ELEVATOR CONTRACTOR. WTH ELEVATOR CONTRACTOR. WTH ELEVATOR CONTRACTOR. COORDINATE THE INSTALLATION WITH SPECIALTY EQUIPMENT CONTRACTOR (I.E., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, INSTALLATION CONFIGURATION (LOCATION, HEIGHT, ETC.), AND CONNECTION TO EQUIPMENT. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.E., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.C., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.C., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.C., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.C., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE, BARRIER CYLINDER OF PLANETARIUM PROJECTOR. SUBPENDING CONTRACTOR (I.C., SECURTY PLANETARIUM PROJECTOR (I.	
	 4 PROVIDE CONTINUOUS CONDUCT FROM EQUIPMENT/STSTEMS CONTROL PAREL TO NEAREST CABLE TRAT. PROVIDE A FULL STRING PER CONDUIT. 5 INSTALL BOX ADJACENT TO POWER OUTLET. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. SHARED BOX BRACKETS ARE ACCEPTABLE. 12 RUN CABLING FROM CONDUIT STUB UP INTO SURFACE RACEWAY IN BACK OF CABINET. 13 ROUTE CONDUIT FROM DEVICE BACKBOX TO ENS TELECOMMUNICATIONS BACKBOX. 14 INSTALL 2-PORT SURFACE BOX INSIDE BACKBOX OF OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM SURFACE BOX 14 INSTALL 2-PORT SURFACE BOX INSIDE BACKBOX OF OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM SURFACE BOX 	
	6 OUTLET/BOX SHARED WITH ELECTRICAL. REFER TO ELECTRICAL DRAWINGS FOR OUTLET TYPE AND INSTALLATION REQUIREMENTS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. 15 SURFACE MOUNT TO COLUMN USING 10" DIA SST BAND CLAMP. PROVIDE MFG'S MOUNTING BRACKET. RESEAL BOX TO MAINTAIN RATING USING UL-RECOGNIZED WASHERS.	(
	TELECOMMUNICATIONS CABLING SCHEDULE	
	PORT NUMBER - CABLE ASSIGNMENTS CONNECTING MEDIA (PATCH CORD, CROSSCONNECT WIRE) REQUIREMENTS REFER TO "CABLE SERVICE TYPES" FOR DEFINITIONS WORKSTATION TELECOMMUNICATIONS ROOM TELECOMMUNICATIONS ROOM	<u></u>
	SYMBOL ATTRIBUTES DESCRIPTION #1 #2 #3 #4 #5 #6 COMMENTS #1 #2 #3 #4 #5 #6 V A2 STANDARD WALL OUTLET, +18" D2 D2 L L STANDARD FACEPLATE, 2-PORT L	
En la construction de la constru	CABLE SERVICE I YPES AND I ERMINATION TYPE AT FOURMENT ROOM TERMINATION TYPE AT PAIR ORDER CABLE JACK	C
	DescriptionOrder of the order of	3
	"D2" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR BLUE "D3" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR 568A ORANGE "D4" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR 568A ORANGE "D4" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR 568A BLACK "D4" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR 568A BLACK	
	"D" OTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL VOICE FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTION GREEN GREEN "S1" SECURITY 2 (18 AWG) CMP NONE DIRECT CONNECTION FROM SPEAKER TO BUTTON - ORANGE - "S2" SECURITY 2 (22 AWG) CMP HORIZONTAL - ONTO SECURITY PANELS DIRECT CONNECTION TO DEVICE - WHITE -	
	"V" UTP CAT6A 4 TWISTED PAIRS (23 AWG) CMP HORIZONTAL VOICE FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS 8-PIN MODULAR CONNECTOR 568A WHITE	
APHIC SCA	NUMBERED NOTES: GENERAL COMMENTS: 1 OUTLET SHARED WITH ELECTRICAL. REFER TO ELECTRICAL FOR OUTLET TYPE AND INSTALLATION REQUIREMENTS. 6 INSTALL OUTLET BOX ON TO WIRE-MOUNTED BRACKET WITHIN CEILING. A REFER TO DIAGRAMS ON SHEET(S) T0.1.3 FOR HORIZONTAL CABLING ROUTING REQUIREMENTS. 6 INSTALL OUTLET BOX ON TO WIRE-MOUNTED BRACKET WITHIN CEILING.	MEF 427 Oał
	 2 COORDINATE THE INSTALLATION WITH SPECIALTY EQUIPMENT CONTRACTOR (I.E., FIRE ALARM, ELEVATOR, SECURITY), INCLUDING OUTLET 7 TERMINATE THE CABLE VIA 8-POSITION MODULAR PLUG. LEAVE 6 INCHES CABLE SLACK WITHIN THE BOX. 7 TERMINATE THE CABLE VIA 8-POSITION MODULAR PLUG. LEAVE 6 INCHES CABLE SLACK WITHIN THE BOX. 8 PROVIDE BLANK INSERTS INTO UNUSED FACEPLATE PORTS. 8 OPROVIDE BLANK INSERTS INTO UNUSED FACEPLATE PORTS. 9 PROVIDE BLANK INSERTS INTO UNU	(510
	9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 4 FURNISH PATCH CORDS TO THE OWNER PER THEIR SCHEDULE. 5 PROVIDE CROSSCONNECT WIRING PER THE OWNER'S DIRECTION. PRIOR TO THE START OF INSTALLING CROSSCONNECT WIRING, COORDINATE WITH THE OWNER CIRCUIT IDENTIFICATION AND DESTINATIONS. 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM 9 INSTALL 1-PORT SURFACE BOX ABOVE ACCESSIBLE CEILING ADJACENT TO OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH PANEL FROM FROM FROM FROM FROM FROM FROM FROM	TP CABLES IN THE
	G TERMINATE VOICE V ON COMPLETELY SEPARATE PATCH PANEL FROM DATA OUTLETS D# .	
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SYMBOL	ATTRIBUTES		DESCRIPTION		TEL	AV	ELEC	PATHWA
V	A2	STANDARD WALL OUTLET, +18"			•			(1) 1 1/4" C

- 1 PROVIDE CONDUIT STUB FROM NEAREST CABLE TRAY TO BOX. AVOID PENETRATING RATED BARRIERS -- IF A PENETRATION THROUGH A RATED BARRIER IS REQUIRED, THEN MEET THROUGH PENETRATIONS REQUIREMENTS. PROVIDE A PULL STRING PER CONDUIT.
- 2 PROVIDE CONDUIT FROM TELECOM ROOM HOME RUN TO ELEVATOR MACHINE ROOM AND TERMINATE AT ELEVATOR CONTROL PANEL. CONDUITS MAY BE CONSOLIDATED AT A JUNCTION BOX (SEE CONSOLIDATION REQUIREMENTS ON T0.0.2). COORDINATE INSTALLATION
- WITH ELEVATOR CONTRACTOR. 3 COORDINATE THE INSTALLATION WITH SPECIALTY EQUIPMENT CONTRACTOR (I.E., SECURITY, FIRE ALARM), INCLUDING OUTLET TYPE,
- INSTALLATION CONFIGURATION (LOCATION, HEIGHT, ETC.), AND CONNECTION TO EQUIPMENT.
- 4 PROVIDE CONTINUOUS CONDUIT FROM EQUIPMENT/SYSTEM'S' CONTROL PANEL TO NEAREST CABLE TRAY. PROVIDE A PULL STRING PER CONDUIT.
- 5 INSTALL BOX ADJACENT TO POWER OUTLET. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. SHARED BOX BRACKETS ARE ACCEPTABLE.

7 MOUNT OUTLET BOX TO THE SIDE OF THE WAP BRACKET.

- COVER/RING TYPE AND SIZE LISTED IN THIS SCHEDULE ARE DEFAULT. 9 BOND DEVICE BOX TO APPROVED GROUND.
- 10 OUTLET BOX SURFACE MOUNTED WITHIN BARRIER CYLINDER OF PLANETARIUM PROJECTOR. 11 SUSPEND CABLE IN OPEN WIRE-WAYS ON WALL AND DOME; SECURE CABLE NEATLY ON DONE SUPERSTRUCTURE; PROVIDE ALL CABLE IN
- BLACK. 12 RUN CABLING FROM CONDUIT STUB UP INTO SURFACE RACEWAY IN BACK OF CABINET.
- 13 ROUTE CONDUIT FROM DEVICE BACKBOX TO ENS TELECOMMUNICATIONS BACKBOX. 14 INSTALL 2-PORT SURFACE BOX INSIDE BACKBOX OF OFCI CLOCK/SPEAKER. PROVIDE AND CONNECT PATCH CORD FROM SURFACE BOX
- TO CLOCK/SPEAKER.
- USING UL-RECOGNIZED WASHERS.

TELECOMMUNICATIONS CABLING SCHEDULE

				PORT		ER - CAE	BLE ASS	IGNME	NTS					CC	NNECT	NG MED	IA (PA	TCH CORD, CF	ROSSCO	ONNECT	WIRE) F	REQUIR	EMENTS	5	
			REFE	ER TO "C	ABLE S	ERVICE	TYPES"	FOR D	EFINITIONS					V	VORKST	ATION				Т	ELECON	MMUNIC	ATIONS	ROOM	I
SYMBOL	ATTRIBUTES	DESCRIPTION	#1	#2	#3	#4	#5	#6	COMMENTS	OUTLET AT USER SPACE	COMMENTS	#1	#2	#3	#4	#5	#6	COMMENTS	#1	#2	#3	#4	#5	#6	COMMENTS
₩	A2	STANDARD WALL OUTLET, +18"	D2	D2						FLUSH FACEPLATE, 2-PORT															

		CAE	BLE	SERVICE TYPES AND TE	RMINATIONS			
DESCRIPTOR	CABLE TYPE	CONDUCTORS	NEC	TERMINATION TYPE AT EQUIPMENT ROOM	TERMINATION TYPE AT USER SPACE	PAIR ORDER SPECIFICATION	CABLE COLOR	JACK COLOR
"B"	NONE	NONE		BLANK INSERT IN UNUSED PORT	BLANK INSERT IN UNUSED PORT	568A		
"D1"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	YELLOW	YELLOW
"D2"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	BLUE	BLUE
"D3"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	ORANGE	ORANGE
"D4"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL DATA FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	BLACK	BLACK
"D"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL VOICE FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	GREEN	GREEN
"S1"	SECURITY	2 (18 AWG)	CMP	NONE	DIRECT CONNECTION FROM SPEAKER TO BUTTON	-	ORANGE	-
"S2"	SECURITY	2 (22 AWG)	CMP	HORIZONTAL - ONTO SECURITY PANELS	DIRECT CONNECTION TO DEVICE	-	WHITE	-
"V"	UTP CAT6A	4 TWISTED PAIRS (23 AWG)	CMP	HORIZONTAL VOICE FIELD - ONTO RACK MOUNTED MODULAR PATCH PANELS	8-PIN MODULAR CONNECTOR	568A	WHITE	WHITE

NUMBERED NOTES:

NAY SERVICES ROUGH-IN SCHEDULE

FEED	BOX TYPE	BOX COVER/RING	MOUNTING	DETAIL REFERENCE	NUMBERED COMMENTS
		ONE GANG			1.5
	SQUARE BOX, 3 SQ X 2 110 D		TEUSITIN WALL, TO AIT		Ι, Ο

- REQUIREMENTS AND ADDITIONAL REQUIREMENTS. C PROVIDE BLANK INSERTS INTO UNUSED KNOCKOUTS.
- D PROVIDE LABELS ON CONDUITS AT BOTH ENDS.
- E AT RATED BARRIERS, PROVIDE FIRESTOPPING/SEALING AROUND BOX WHERE REQUIRED.

GENERAL COMMENTS:

- A REFER TO DIAGRAMS ON SHEET(S) T0.1.3 FOR HORIZONTAL CABLING ROUTING REQUIREMENTS.
- B PROVIDE BLANK INSERTS INTO UNUSED FACEPLATE PORTS. 8 STORE AND PROTECT CABLE(S) BEHIND PAY PHONE LOCATION FOR FUTURE HOOK UP BY THE PAY PHONE SERVICE PROVIDER. PLACE A TAG ON C PROVIDE BLANK INSERTS INTO UNUSED FACEPLATE PORTS.
 - D PATCH CABLES ARE PROVIDED BY DISTRICT IT.
 - E TERMINATE ALL JACKS AND OUTLETS WITH TIA 568A PAIR ORDER SPECIFICATION. F TERMINATE THE CABLE VIA 8-POSITION MODULAR PLUG IN THE TR PATCH PANEL. LEAVE 6 FEET OF SLACK FOR ALL UTP CABLES IN THE OVERHEAD LADDER RACK.
 - G TERMINATE VOICE "V" ON COMPLETELY SEPARATE PATCH PANEL FROM DATA OUTLETS "D#".

AGENCY APPROVALS	
ccc	CONTRA
	COLLEGE
C-4016 SCIE CONFEREN	ENCE CENTER
CONV	/ERSION
СМІТЦСІ	
301 BATTERY ST	(UUP Reet
7TH FLOOR SAN FRANCISCO, 415.227.0100	, CA 94111
www.smithgroup.co	om
Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street	TEECOM ACOUSTICS, VIBRATION, AV, TELECOM, SECURITY
Oakland, CA 94612 (510) 663-2070	50 California St, Suite 1500 San Francisco, CA 94111 (510) 337-2800 ——
	REV DATE
ISSUED FOR BID	11 APR 2022
SEALS AND SIGNATURES	
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C-4016 SCIE	ENCE CENTE
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SMITHGF	ROUP
301 BATTERY STF 7TH FLOOR SAN FRANCISCO, 415.227.0100	REET CA 94111
www.smithgroup.co	TEFOON
Integral Group MEP, LIGHTING, FIRE ALARM 427 13th Street Oakland, CA 94612 (510) 663-2070	TEECOM ACOUSTICS, VIBRATION, A <u>N</u> TELECOM, SECURITY 50 California St, Suite 1500 San Francisco, CA 94111 (510) 337-2800
ISSUED FOR	REV DATE
ISSUED FOR BID	<u>11 APR 2022</u>
ROFES	ANDERSON ALCENT
No. E1	
	Date Sealed 04/11/2022
SHEET TITLE FLOOR PLAN	N - LEVEL 2

Α	6" 3" 0' GRAPHIC SCALE: 3" = 1'-0"			
Β	1' 6" 0' 1' GRAPHIC SCALE: 1 1/2" = 1'-0"			2 INFRAS SCALE: 1/4" = 1'-0"
С	3' 1' 6" 0' 1' 2' GRAPHIC SCALE: 1" = 1'-0"			
	4' 1' 6" 0' 1' GRAPHIC SCALE: 3/4" = 1'-0"			
E	32' 2' 1' 0' 2' GRAPHIC SCALE: 1/2" = 1'-0"			
F	16' 16' 8' 0' 16' Constant of the second o	SHEET NOTES		NUMBER
G	8' 8' 0' 8' 8' Bara da la la	 COORDINATE FINAL LOCATION OF FLOOR BOXES AND WALL INFRASTRUCTURE IN RELATION TO FURNITURE WITH THE ARCHITECT PRIOR TO LOCATING/INSTALLING/MOUNTING INFRASTRUCTURE. PROVIDE APPROVED FIRESTOP SYSTEMS WHERE CONDUITS AND/OR SLEEVES PENETRATE FIRE PARTITIONS, SMOKE BARRIERS, OR SMOKE PARTITIONS. REFER TO SHEETS T0.0.2.V2 AND T0.0.3.V2 FOR PATHWAYS REQUIREMENTS. PROVIDE PLASTIC BUSHINGS ON EXPOSED ENDS OF CONDUIT AND SLEEVES, WHETHER VISIBLE OR NOT. REFER TO SHEET T0.01.V2 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. 	01 02 03	PULL EXISTING CABLING TO ACCESSI TO RE-TERMINATE TO NEW OUTLET L REMOVE TECHNOLOGY FACEPLATES CABLING WITHIN NEAREST CABLE TR FUTURE USE. PROVIDE A LABEL ON T TRAY FOR FUTURE REUSE. REMOVE. (I.E. AUDIO/VIDEO/CONTROL/CATEGO ROOM) AND HAND OVER TO OWNER. REMOVE DISPLAY AND HAND OVER A MICROPHONES, LOUDSPEAKERS, CO OWNER. COORDINATE REPLACEMENT REMOVAL OF ANY LOUDSPEAKERS, IN ACCESSIBLE CEILING SPACE AND CO TRAY AND PROVIDE LABEL MARKING PATCH PANEL IN THE IDF INDICATING BLANK COVERPLATE FOR THIS OUTLI AUDIO/VIDEO/CONTROL/CATEGORY (C ROOM) AND HAND OVER TO OWNER
Plot Date: 4/11/2022 8:43:15 AM	4' 0' 4' GRAPHIC SCALE: 1/4" = 1'-0"		04	ROUM) AND HAND OVER TO OWNER.

1 INFRASTRUCTURE DEMO PLAN SCALE: 1/4" = 1'-0"

ED NOTES	
IBLE CEILING SPACE AND COIL AND PROTECT SLACK LOCATION.	
S AND CABLING FROM FLOOR BOX AND COIL AY AND PROVIDE LABEL MARKING CABLE FOR THE PATCH PANEL IN THE IDF INDICATING CABLE IN ANY POINT TO POINT CABLING ORY CABLING WHERE BOTH ENDS TERMINATE IN THE	
ALL ASSOCIATED ACCESSORIES (TRANSMITTERS, INTROL PANELS, RACKS, PATCH CORDS, ETC.) TO T OF ANY CEILING TILES DAMAGED DURING IN THIS SPACE. PULL EXISTING CABLING TO OIL AND PROTECT SLACK WITHIN NEAREST CABLE CABLE FOR FUTURE USE. PROVIDE A LABEL ON THE G CABLE IN TRAY FOR FUTURE REUSE. PROVIDE ET. REMOVE ANY POINT TO POINT CABLING (I.E. CABLING WHERE BOTH ENDS TERMINATE IN THE	
EXISTING CABLING IN ACCESSIBLE CEILING ABOVE.	

