CHASE

JP MORGAN CHASE, N.A.

HWY 291 & NE LANGSFORD RD

890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

REV 2 - PLAN REVIEW COMMENTS & RDC 21/WIRELESS UPDATES

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CODE INFORMATION

JURISDICTION
CITY OF LEE'S SUMMIT
DEVELOPMENT SERVICES DEPARTMENT
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
(816) 969-1200

APPLICABLE CODES

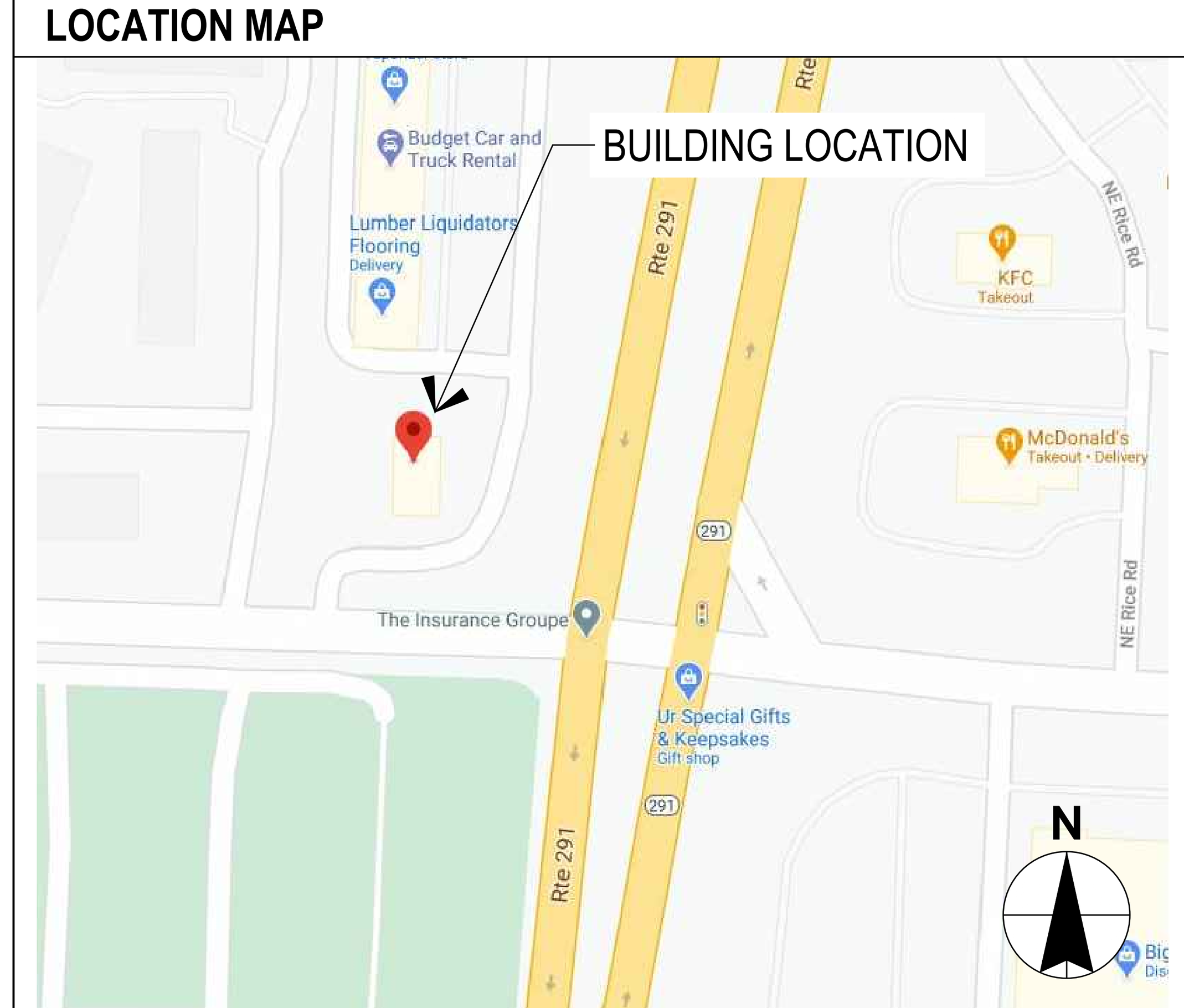
BUILDING CODE:	INTERNATIONAL BUILDING CODE (2018 EDITION)
MECHANICAL CODE:	INTERNATIONAL MECHANICAL CODE (2018 EDITION)
PLUMBING CODE:	INTERNATIONAL PLUMBING CODE (2018 EDITION)
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE (2017 EDITION)
FIRE CODE:	INTERNATIONAL FIRE CODE (2018 EDITION)
ACCESSIBILITY CODE:	ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ENERGY CONSERVATION CODE:	INTERNATIONAL ENERGY CODE (2018 EDITION)

SCOPE OF WORK:
CONSTRUCTION OF A NEW COMMERCIAL BANKING CENTER WITH REMOVE DRIVE THRU ATM CANOPY AND TRASH ENCLOSURE. THE SCOPE INCLUDES CIVIL, ARCHITECTURE, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. CIVIL SCOPE SUBMITTED UNDER SEPARATE COVER.

PROJECT DATA

USE	NEW RETAIL BANKING CENTER	
CLASSIFICATION OF WORK	NEW BUILD GROUND UP	
SQUARE FOOTAGE	3,320 GSF	
VOLUME	56,440 CSF	
OCCUPANCY CLASSIFICATION	BUSINESS GROUP B	
OCCUPANCY LOAD		
OCCUPANCY LOAD PER CLASSIFICATION:	SEE LIFE SAFETY PLAN	
PUBLIC FLOOR AREA / 150	23 = TOTAL OCCUPANTS PER 2018 IBC	
3,320 SF / 150 = 23 OCCUPANTS		
CONSTRUCTION TYPE	II-B	
SEISMIC CATEGORY	B	
SPRINKLERED	NOT REQUIRED	
FIRE ALARM	NOT REQUIRED	
BUILDING HEIGHTS AND AREAS	ALLOWABLE/REQ'D	PROPOSED
BUILDING AREA	23,000 S.F.	3,320 SF
ALLOWABLE HEIGHTS		
STORIES	3	1
FEET	55'-0"	21'-6"
FIRE SEPARATION PER IBC 2018 CH. 6 TABLE 602		
FRONT BUILDING SETBACK (NORTH) (X > 30')	0 HRS.	0 HRS.
SIDE BUILDING SETBACK (EAST) (X > 30')	0 HRS.	0 HRS.
SIDE BUILDING SETBACK (WEST) (X > 30')	0 HRS.	0 HRS.
REAR BUILDING SETBACK (SOUTH) (X > 30')	0 HRS.	0 HRS.
EGRESS WIDTH:	SEE LIFE SAFETY PLAN SHEET A1.1.0	
OCCUPANTS x (0.2 - OTHER EGRESS COMPONENTS)		
23 x 0.2" = 4.6" WIDTH REQUIRED		
EXITS AND EXIT ACCESS DOORWAYS		
EXITS (MAX OCCUPANT OF 49 FOR 1 EXIT)		
DOOR WIDTH		
COMMON PATH OF TRAVEL (30'; 75' IF OCC. LOAD < 50)		
EXIT ACCESS TRAVEL DISTANCE		
DEAD END CORRIDORS		
PLUMBING FIXTURES		
OCCUPANT LOAD	= 23 TOTAL OCCUPANTS PER 2018 IBC	
PER 2018 IPC CODE 403.2		
SEPARATE FACILITIES SHALL BE PROVIDED FOR EACH SEX.		
FIXTURES (PER 2018 IPC CH. 4 TABLE 403.1)		
WATER CLOSETS - 1 PER 25 FOR FIRST 50	1 / 1	1 / 1
LAVATORIES - 1 PER 40 FOR FIRST 80	1 / 1	1 / 1
DRINKING FOUNTAIN (1 PER 100)	1	1 HIGH / 1 LOW
SERVICE SINK (1 PER FLOOR)	1	1

LOCATION MAP



FIRE-RESISTANCE RATING REQUIREMENTS

PER 2018 IBC TABLE 601 - CONSTRUCTION TYPE II-B

REQUIRED PRIMARY STRUCTURAL FRAME	0 HR
REQUIRED BEARING WALLS EXTERIOR / INTERIOR	0 HR
REQUIRED NONBEARING WALLS EXTERIOR / INTERIOR	0 HR
REQUIRED FLOOR CONSTRUCTION	0 HR
REQUIRED ROOF CONSTRUCTION	0 HR

FLAME SPREAD DATA

CERAMIC TILE:
IBC REQUIRED MINIMUM N/A
PROVIDED N/A

SUSPENDED ACOUSTICAL CEILINGS:
IBC REQUIRED MINIMUM CLASS B
PROVIDED CLASS A

RESILIENT FLOORING:
IBC REQUIRED MINIMUM CLASS II
PROVIDED CLASS I

CARPET TILE:
IBC REQUIRED MINIMUM CLASS II
PROVIDED CLASS II

PAINTS AND COATING:
IBC REQUIRED MINIMUM CLASS B
PROVIDED CLASS A

SEPARATE SUBMITTALS

GC SHALL OBTAIN PERMITS LISTED BELOW PRIOR TO INSTALLATION PER LOCAL JURISDICTION REQUIREMENTS.

1. SIGNAGE PACKAGE
2. SECURITY ALARM

PROJECT SPECIFIC ITEMS

SECURITY ENAHNCEMENTS:	NO BRG, SECURITY FILMS, ANTI-GRAFFITI FILMS
DATE OF DRC ISSUED:	09/30/2020
INCLUDES RETAIL DESIGN COMMUNICATION UP TO:	20.2
REMOTE DRIVE-UP ATM:	SIGNATURE CANOPY

SHEET INDEX

W/ REVISION ●
W/O REVISION ○
NOT ISSUED

SHEET	TITLE	2020.12.21 PERMIT SET	2021.04.20 STRUCTURAL STEEL REV	2021.06.03 PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE
ARCHITECTURAL	DRAWING ISSUE	-	1	2
A0.1	COVER SHEET	○	○	○
A0.2	GENERAL NOTES, RESPONSIBILITY SCHEDULE, DRAWING CONVENTIONS, AND ABBREVIATIONS	○		
A0.3	ANSI ACCESSIBILITY DETAILS	○		
A0.4	UL LISTING	○		
A0.5	ARCHITECTURAL SITE PLAN	○		●
A0.6	TRASH ENCLOSURE DETAILS	○		
A0.7	DRIVE-UP ISLAND & REMOTE GC BUILT CANOPY DETAILS	○		
A1.1.0	LIFE SAFETY AND ACCESSIBILITY PLAN	○		●
A1.1.1	CONSTRUCTION FLOOR PLAN	○	●	●
A1.1.3	FINISH FLOOR PLAN	○		●
A1.1.4	FURNITURE AND EQUIPMENT PLAN	○		●
A1.2.1	REFLECTED CEILING PLAN	○	●	●
A1.3.1	ROOF PLAN	○	●	
A1.4.1	NOT USED	○		
A2.1.0	EXTERIOR ELEVATIONS	○	●	●
A2.2.0	EXTERIOR ELEVATIONS	○	●	
A3.1.0	WALL TYPES, FLOOR TYPES, ROOF TYPES	○	●	
A3.2.1	DOOR TYPES SCHEDULE, DOOR TYPES, WINDOW TYPES	○		
A3.2.2	DOOR HARDWARE SCHEDULE	○		
A3.3.1	INTERIOR FINISH SCHEDULE, FLOOR TRANSITION TYPES AND FINISHES SCHEDULE, VENDOR CONTACTS	○		
A3.3.2	INTERIOR FINISH MATERIAL, REGIONAL WINDOW SHADE FABRICS	○		
A3.4.1	FURNITURE SCHEDULE, AUDIO / VIDEO EQUIPMENT SCHEDULE	○		
A3.4.2	BANK EQUIPMENT SCHEDULE	○		
A3.4.3	OFFICE EQUIPMENT BY PROGRAMMATIC ELEMENT, OFFICE EQUIPMENT SCHEDULE, MISCELLANEOUS EQUIPMENT SCHEDULE	○		
A3.4.5	AUDIO / VIDEO FINISHED OPENINGS	○		
A3.5.0	APPLIANCE SCHEDULE, RESTROOM ACCESSORIES, ELECTRICAL DEVICES FINISHES	○		
A4.0.0	BUILDING SECTIONS	○	●	
A4.1.1	WALL SECTIONS: LOW PARAPET TYPICAL STOREFRONT OPENINGS	○	●	
A4.1.2	WALL SECTIONS: CURTAIN WALL, ACM PANEL AND HIGH PARAPET	○	●	
A4.1.3	WALL SECTIONS: TOWER PARAPET - ENTRY CANOPY	○	●	
A5.1.1	DETAILS: BUILDING ENVELOPE	○		
A5.1.2	DETAILS: BUILDING ENVELOPE	○		
A5.1.3	DETAILS: ENTRANCE CANOPIES AND SUNSHADE	○		
A5.1.5	DETAILS: EXTERIOR CORNERS AND STOREFRONT MULLION	○		
A5.2.1	DETAILS: WALL OPENINGS	○		
A5.2.2	INTERIOR THROUGH-WALL WALK-UP ATM AND AFTER-HOURS DEPOSITORY	○		
A5.3.1	DETAILS: ROOF	○	●	
A5.3.2	INTERIOR DETAILS: OVERHEAD COILING DOORS	○		
A5.3.3	INTERIOR DETAILS: DEMOUNTABLE PARTITIONS, CEILING TRANSITIONS	○		
A5.4.1	DETAILS: EXTERIOR ENVELOPE, ROOF SCUTTLE, AND LADDERS	○	●	
A5.5.2	DETAILS: ATM	○		●
A5.5.4	DETAILS: CEILING: SEISMIC DESIGN 'B'	○		
A5.5.5	DETAILS: CEILING	○		
A5.6.1	DETAILS: CABINETRY	○		
A6.00	MAIN BANKING FLOOR: INTERIOR ELEVATIONS AND MARKETING POSITIONING DETAILS	○		●
A6.01	TRANSACTION VESTIBULE: INTERIOR ELEVATIONS	○		
A6.02	CASH / TRANSACTION EQUIP ROOM & LAO AREA: ENLARGED PLANS AND INTERIOR ELEVATIONS	○		
A6.03	MEDIA WALL - ENLARGED PLAN, ELEVATIONS, & DETAILS	○		
A6.04	COMMUNITY WALL AND BOOTH: ENLARGED PLANS, ELEVATIONS, AND DETAILS	○		
A6.05	PRIVATE CONSULATION SPACE , CONFERENCE ROOM: INTERIOR ELEVATIONS	○		●
A6.07	RESTROOMS AND JANITOR: ENLARGED PLANS AND INTERIOR ELEVATIONS	○		
A6.08	LOUNGE, FILE, AND PRINTER ROOM: ENLARGED PLAN AND INTERIOR ELEVATIONS	○		●
A6.10	MANUAL TRANSACTION: ENLARGED PLAN, INTERIOR ELEVATIONS, AND DETAILS	○		
STRUCTURAL				
S0.0	GENERAL STRUCTURAL NOTES	○	○	
S0.1	STRUCTURAL SPECIAL INSPECTIONS	○	○	
S0.2	STRUCTURAL SPECIAL INSPECTIONS II	○	○	
S1.0	FOUNDATION PLAN	○	○	
S2.0	WALL & LOW FRAMING PLAN	○	○	
S3.0	ROOF FRAMING PLAN	○	●	
S4.0	FOUNDATION SECTIONS	○	○	
S4.1	TYPICAL FOUNDATION DETAILS	○	○	
S4.2	TYPICAL FOUNDATION DETAILS II	○	○	
S5.0	ROOF FRAMING SECTIONS	○	●	
S5.1	ROOF FRAMING SECTIONS II	○	●	
S6.0	STEEL FRAME ELEVATIONS	○	○	
S6.1	CONNECTION DETAILS	○	○	
S6.2	STEEL CONNECTION DETAILS AND SECTIONS	○	○	
S6.3	TYPICAL STEEL DETAILS	○	●	
S6.4	TYPICAL LIGHT GAGE DETAILS	○	○	
S7.0	CANOPY FOUNDATION PLAN & DETAILS	○	○	
S8.0	TRASH ENCLOSURE DETAILS	○	○	
MECHANICAL				
M0.0	MECHANICAL LEGENDS & GENERAL NOTES	○		
M1.0	MECHANICAL FLOOR PLAN	○		
M1.1	MECHANICAL ROOF PLAN	○		
M2.0	MECHANICAL SCHEDULES	○		
M3.0	MECHANICAL DETAILS	○		
PLUMBING				
P0.0	PLUMBING ABBREVIATION, LEGENDS & NOTES	○		
P1.0	PLUMBING SANITARY, STORM & VENT PLAN	○		
P1.1	PLUMBING DOMESTIC WATER PLAN	○		
P2.0	PLUMBING ROOF PLAN	○		
P3.0	PLUMBING DETAILS	○		
P4.0	PLUMBING RISER DIAGRAMS	○		
ELECTRICAL				
E0.0	LEGEND, ABBREVIATIONS AND NOTES	○		
E0.1	BUILDING MANAGEMENT SYSTEM DETAILS	○		●
E0.2	BMS DEVICE WIRING DIAGRAMS	○		●
E0.3	LIGHTING SCHEDULE AND ELECTRICAL DEVICES	○		●
E1.0	ELECTRICAL SITE PLAN	○		●
E1.1	DRIVE-THRU PLANS	○		
E2.0	LIGHTING PLAN	○		●
E3.0	POWER PLAN	○		●
E3.1	ROOF POWER PLAN	○		
E4.0	SYSTEMS PLAN	○		●
E5.0	UNDERGROUND CONDUIT PLAN	○		
E6.0	ENLARGED PLAN AND ELEVATIONS	○		
E7.0	POWER DETAILS AND SCHEDULES	○		●
TELECOMM (FOR REFERENCE ONLY)				
(TC-0000-TC-601)	TELECOM PACKAGE (SHEETS 1-17) FOR REFERENCE ONLY PERMITTED BY OTHERS	○		

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 15, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

COVER SHEET

SHEET NUMBER

A0.1

SYMBOLS LEGEND

MATERIALS LEGEND

ABBREVIATIONS LIST

GENERAL ABBREVIATIONS

A	ANNEALED
AC	AIR CONDITIONING
ACM	ALUMINUM COMPOSITE MATERIAL
ACT	ACOUSTIC CEILING TILE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ASPH	ASPHALT
BMS	BUILDING ENERGY MANAGEMENT SYSTEM
CJ	CONTROL JOINT
CLNG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CL	CENTERLINE
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
HC	HANDICAP
H.D. GALV.	HOT-DIP GALVANIZED (STEEL)
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
INSUL	INSULATION
JAN.	JANITOR, JANITOR'S CLOSET
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
PF	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
PTD	PAINTED
QT	QUARRY TILE
R	RADIUS
REBAR	REINFORCING BAR
REF	REFERENCE
REQD.	REQUIRED
RO	ROUGH OPENING
SB	SPLASHBLOCK
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
SUSP	SUSPENDED
T	TEMPERED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
WD	WOOD
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

CHASE ABREVIATIONS

ABCM	ASSISTANT BANKING CENTER MANAGER
AHD	AFTER-HOUR DEPOSITORY
ATM, eATM	AUTOMATIC TELLER MACHINE
BCM	BANKING CENTER MANAGER
BRG	BULLET-RESISTANT GLASS
CMS	CASUAL MEETING SPACE
CPC	CHASE PRIVATE CLIENT
CR	CASH RECYCLER
DAB	DIGITAL ADVICE BAR
DRC	DESIGN REVIEW CALL
DU, D/U	DRIVE-UP
EBDU	EXPRESS BANKING DRIVE-UP
HUB	HOLD-UP BUTTON
IWS	INDIVIDUAL WORK SPACE
LTOS	LEAD TELLER OPERATIONS SPECIALIST
MFD	MULTI-FUNCTIONAL DEVICE
PB	PERSONAL BANKER
PCA	PRIVATE CLIENT ADVISOR
PCB	PROVATE CLIENT BANKER
PCIA	PRIVATE CLIENT INVESTMENT ADVISOR
PCS	PRIVATE CONSULTATION SPACE
PTB	POWER TRANSITION BOX
SDB	SAFE DEPOSIT BOX
TP	TELEPRESENCE
VAT	VACUUM AIR TUBE

GENERAL NOTES

CONSTRUCTION DOCUMENTS

1. THE CONSTRUCTION CONTRACT INCLUDES THE EXECUTED, SIGNED AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR, AND THE CONSTRUCTION DOCUMENTS, WHICH INCLUDES THE DRAWINGS AND THE SPECIFICATIONS.
2. BY EXECUTION OF THE CONSTRUCTION CONTRACT, THE CONTRACTOR REPRESENTS THAT HE OR SHE HAS (1) READ AND UNDERSTANDS THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, (2) VISITED THE PROJECT-SITE, (3) BECOME FAMILIAR WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED, (4) CORRELATED PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND (5) THAT HE OR SHE WILL COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
3. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE CONSTRUCTION WORK - AND TO PROVIDE (FURNISH AND INSTALL) ALL PRODUCTS, MATERIALS, EQUIPMENT OR ACCESSORIES REQUIRED FOR PROPER OPERATION, IN ACCORDANCE WITH THEIR MANUFACTURER'S REQUIREMENTS.
4. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY - WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WHILE PREPARED WITH DUE CARE AND DILIGENCE, PERFECTION IS NOT POSSIBLE. DESIGN AND CONSTRUCTION ARE COMPLEX - EVERY POSSIBLE CONDITION OR CONTINGENCY CANNOT BE ANTICIPATED OR FULLY INDICATED WITHIN THE DOCUMENTS.
5. CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL OR ELECTRICAL) AND OTHER CONTRACT DOCUMENTS WITH THE EXISTING CONDITIONS AT THE PROJECT-SITE BEFORE STARTING CONSTRUCTION. REPORT ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED FOR CLARIFICATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR OR CORRECTION COSTS IF WORK IS EXECUTED WITH KNOWLEDGE THAT IT INVOLVES AN ERROR, INCONSISTENCY OR OMISSION - WITHOUT THE ABOVE NOTICE.
6. IN THE EVENT OF CONFLICT OR AMBIGUITY WITHIN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE AGREED TO PROVIDE THE GREATER QUANTITY AND / OR BETTER QUALITY OF MATERIALS AND / OR WORK. OMISSIONS IN THE DESCRIPTION OF THE WORK DO NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE PROJECT.
7. THE CONTRACTOR SHALL FULLY ACQUAINT HIM/HERSELF WITH THE CONDITIONS AND REQUIREMENTS OF THE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, INCLUDING OTHER PARTS OF THE PROPOSED CONTRACT DOCUMENTS, AND FULLY UNDERSTAND THE CONDITIONS,DIFFICULTIES AND RESTRICTIONS COMPLETELY, BEFORE EXECUTING THE WORK. IT IS UNDERSTOOD THAT OMISSIONS FROM THE BID, DUE TO FAILURE OF THE CONTRACTOR TO FULLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DOCUMENTS, WILL NOT ENTITLE HIM TO ADDITIONAL CONSIDERATION AND/OR COMPENSATION. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK.
8. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE CONSTRUCTION DOCUMENTS, OR BE IN DOUBT AS TO THE MEANING AND INTENTION OF ANY ITEMS OR REQUIREMENTS, THEY SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
9. ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, INCLUDING THESE GENERAL NOTES. THE G.C. SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL THE TRADES.
10. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
11. ANY STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (IF REQUIRED) ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERS' DRAWINGS THAT WOULD CAUSE AN IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.
12. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
13. WHERE A TYPICAL CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
14. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES AT THE SITE. PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
15. THE CONTRACTOR IS TO PROVIDE TEMPORARY FACILITIES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITIES OR JURISDICTIONAL ORDINANCE.
16. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD, COMPARE THOSE MEASUREMENTS TO THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD. DRAWINGS SHALL NOT BE SCALED OFF FOR MEASUREMENT.
17. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BARRICADING AND BRACING NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF THE BUILDING AND THE HEALTH OF THE PUBLIC AND ALL WHO ENTER THE BUILDING DURING COMPLETION OF THE SCOPE OF WORK DEFINED BY THIS ARCHITECTURAL DOCUMENTATION SET.
18. ALL WORK SHALL COMPLY WITH LOCAL BUILDING AUTHORITIES, CODES, REGULATIONS,ORDINANCES AND STATUTES, STATE, FEDERAL CODE AND OTHER JURISDICTIONAL AUTHORITIES, AND LATEST REVISIONS THEREOF. MODIFICATIONS REQUIRED BY THE ABOVE AND AUTHORITY SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE OWNER.
19. ALL EMERGENCY BUILDING EXITS REQUIRED BY CODE, SHALL BE OPERABLE AND UNOBSTRUCTED DURING CONSTRUCTION PERIOD.
20. FIRE EXTINGUISHER CABINETS TO BE FURNISHED AND INSTALLED BY THE G.C. ARE TO BE IN COMPLIANCE WITH CITY AND APPLICABLE FIRE CODES.
21. BOTH PLACEMENT AND QUANTITY OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHALL AND COMPLY WITH ALL N.F.P.A. REQUIREMENTS. G.C. TO COORDINATE INSTALLATION.
22. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL FIRE LIFE SAFETY DEVICES WITH THE FIRE INSPECTOR AND THE OWNER REPRESENTATIVE FOR ON-SITE APPROVAL PRIOR TO INSTALLATION.
23. INTERIOR FINISHES SHALL COMPLY WITH LOCAL CODES.
24. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACKING, HANGERS, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, FIXTURES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED PLUMBING, MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.
25. INTERIOR WALL AND CEILING FINISH FLAME-SPREAD RATING SHALL BE AS REQUIRED BY LOCAL CODES.
26. PENETRATIONS IN WALLS, FLOORS OR ROOF REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL CODES.
27. ALL WIRING WITHIN CONCEALED SPACES SHALL COMPLY WITH LOCAL CODES.
28. ALL DOOR SIZES SHOWN ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS (1/2" MIN),ETC. SHALL BE DEDUCTED. FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSURES, STOPS AND HARDWARE.
29. ALL DISCIPLINES REQUIRED TO PROVIDE SHOP DRAWINGS AND OR SAMPLES OF FINISHES, TO SUBMIT TO THE CONTRACTOR PRIOR TO START, WHO WILL FORWARD TO ARCHITECT AND OWNER FOR COMMENTS, FOR APPROVAL OR RE-SUBMITTAL.
30. THE SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. G.C. SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
31. GC TO REPLACE WORK OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED REQUIREMENTS IN THE OPINION OF OWNER AND OR ARCHITECT.
32. ALL ITEMS TO BE SUPPLIED AND INSTALLED (TO A FULLY FINISHED LEVEL) BY G.C. - G.C. TO PROVIDE POWER AS REQUIRED.
33. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF THE JOBSITE AND IT'S SURROUNDING AREA AND REMOVE ALL CONSTRUCTION DEBRIS FOR DISPOSAL.
34. THE G.C SHALL COORDINATE PARKING, MATERIAL DELIVERY, MATERIAL STAGING AND CONSTRUCTION DUMPSTER LOCATIONS W/ OWNER AND/OR OWNER'S TENANT PRIOR TO BEGINNING CONSTRUCTION. MAINTAIN ALL PEDESTRIAN WALKWAYS OPEN DURING CONSTRUCTION WHEN PROJECT IS LOCATED WITHIN AN EXISTING OCCUPIED DEVELOPMENT. COORDINATE ALL SHARED UTILITIES, FIRE SPRINKLER SYSTEM SHUT OFFS, ETC. W/ OWNER AND/OR OWNER'S TENANT PRIOR TO BEGINNING OF THE WORK.

GENERAL SCOPE OF WORK

35. PERFORM ALL CONSTRUCTION WORK INDICATED OR OTHERWISE REQUIRED FOR COMPLETION OF THE PROJECT - EXCEPT AS NOTED OTHERWISE.
36. SCHEDULE AND COORDINATE THE WORK OF THE COMPLETE PROJECT TO ASSURE AN EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF ALL ELEMENTS - WITH PROVISIONS FOR ACCOMMODATING ITEMS TO BE INSTALLED LATER.
37. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.
38. PROVIDE ALL REQUIRED NOTICES FOR INSPECTIONS AND APPROVALS OF THE WORK BY THE AUTHORITY HAVING JURISDICTION (AHJ). THE MOST RESTRICTIVE CODE REQUIREMENTS AS INTERPRETED BY LOCAL OFFICIALS WILL APPLY.
39. VERIFY LOCATIONS OF EXISTING UTILITY SERVICE CONNECTIONS SERVING THE PROJECT BEFORE STARTING CONSTRUCTION. LOCATIONS OF EXISTING UTILITIES NOTED ARE APPROXIMATE, AND MAY BE BASED ON UN-VERIFIED INFORMATION. PROVIDE ALL CONNECTIONS REQUIRED AT UTILITY CONNECTION POINTS AT NO ADDITIONAL COST TO THE OWNER.
40. PROVIDE SUBCONTRACTORS WITH A FULL-SET OF THE CONSTRUCTION DOCUMENTS TO ENSURE COORDINATION BETWEEN ALL TRADES AND EACH SUBCONTRACTOR.
41. ALL CONSTRUCTION WORK MUST BE OF GOOD QUALITY - FREE FROM DEFECTS AND IN ACCORDANCE WITH REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS - OR THE WORK MAY BE CONSIDERED DEFECTIVE - AND SUBJECT TO CORRECTION OR REPLACEMENT BY THE CONTRACTOR WITHIN A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION.

COORDINATION WITH SEPARATE CONTRACTORS

42. COORDINATE WITH THE OWNER'S SEPARATE CONTRACTORS OR SUPPLIERS FOR WORK INDICATED AS BEING OWNER-FURNISHED & CONTRACTOR INSTALLED (OFCI), OR NOT-IN-CONTRACT (NIC). PROVIDE SCHEDULED DATES WHEN THE PROJECT WILL BE READY FOR DELIVERY OR INSTALLATION OF OWNER FURNISHED PRODUCTS, AS APPLICABLE.
43. COORDINATE THE WORK OF THIS PROJECT WITH OTHER CONTRACTORS AT SEPARATE CONSTRUCTION PROJECTS WITHIN THE SAME DEVELOPMENT, SO THAT THIS WORK WILL NOT INTERFERE WITH OR DELAY THEIR OPERATIONS.
44. COORDINATE, RECEIVE AT SITE, VERIFY RECEIPT, HANDLE, STORE ON-SITE (IF REQUIRED), PROTECT AND INSTALL OWNER-FURNISHED PRODUCTS, AND PROVIDE SERVICE CONNECTIONS AS APPLICABLE.
45. NOTIFY THE OWNER WITHIN FIVE (5) DAYS OF RECEIPT OF ANY ITEMS THAT ARE MISSING, DAMAGED OR OTHERWISE DEFECTIVE. LACK OF NOTIFICATION WILL BE CONSIDERED PRESUMPTIVE PROOF THAT ALL ITEMS DID ARRIVE UNDAMAGED AND IN PROPER QUANTITIES, AND ANY REPLACEMENT OR REPAIRS NECESSARY WILL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR.
46. REPAIR DAMAGE TO OWNER-FURNISHED PRODUCTS CAUSED BY CONSTRUCTION OPERATIONS TO THE OWNER'S SATISFACTION.

COORDINATION WITH OWNER

47. OBTAIN AND COMPLY WITH THE OWNER'S CONSTRUCTION RULES & REGULATIONS WHICH ARE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS BY REFERENCE. COMPLY WITH OWNER'S APPROVED DRAWINGS OF THIS PROJECT, IF APPLICABLE. MAINTAIN PRINTED COPIES AT THE SITE AND ACKNOWLEDGE RECEIPT TO THE OWNER.
48. PARTICIPATE IN A PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE AND PROVIDE THEM SUFFICIENT NOTICE BEFORE STARTING WORK.

GENERAL DEMOLITION

49. DEMOLITION CONTRACTOR TO COORDINATE & REVIEW ALL CONSTRUCTION DOCUMENTS & DETERMINE THE EXTENT OF DEMOLITION WORK & BECOME FAMILIAR WITH THEM THOROUGHLY BEFORE PERFORMING ANY DEMOLITION WORK. BY THE ACT OF STARTING DEMOLITION, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE THE NECESSARY ALLOWANCES IN PREPARING HIS BID.
50. REFER TO MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS FOR ADDITIONAL & DETAILED DEMOLITION INSTRUCTIONS.
51. PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING WALLS, FLOORS, CEILINGS, ETC. THAT ARE TO REMAIN. CONTRACTOR TO PATCH & REPAIR ANY DAMAGED PORTIONS OF THE EXISTING BUILDING AS REQUIRED TO MATCH THE EXISTING ADJACENT CONSTRUCTION & FINISHES.
52. IF CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS DURING DEMOLITION OR CONSTRUCTION, HE SHALL IMMEDIATELY SUSPEND WORK & NOTIFY THE AREA CONSTRUCTION MANAGER BEFORE PROCEEDING.
53. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER & IN STRICT ACCORDANCE WITH OSHA REGULATIONS.
54. THE SUB-CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE DEMOLITION AND REMOVAL OF ANY WALLS, COUNTERS, FURNITURE, BULKHEADS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON THE DRAWINGS OR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.
55. WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING.

TEMPORARY FACILITIES, UTILITIES & CONTROLS

56. PROVIDE BARRIERS, FENCES AND OTHER CONTROLS TO PREVENT PUBLIC ENTRY TO CONSTRUCTION AREAS, AND TO PROTECT CONSTRUCTION WORKERS AND THE PUBLIC FROM HAZARDS OF CONSTRUCTION.
57. PROVIDE PROTECTION OF CONSTRUCTION MATERIALS FROM LOSS, DAMAGE, FIRE OR THEFT, AND PROTECT EXISTING CONSTRUCTION FROM DAMAGE BY CONSTRUCTION OPERATIONS.
58. PROVIDE TEMPORARY FIRE-PREVENTION MEASURES AND PROCEDURES INCLUDING FIRE-EXTINGUISHERS PER AHJ REQUIREMENTS.
59. PROVIDE DUMPSTERS AND COLLECT WASTE DAILY. DISPOSE OF MATERIAL IN A LAWFUL MANNER. PLACE DUMPSTER IN LOCATION APPROVED BY OWNER OR LANDLORD, AS APPLICABLE.

GENERAL PRODUCT REQUIREMENTS

60. STORE PRODUCTS PER MANUFACTURER'S INSTRUCTIONS, PROTECTED FROM DAMAGE OR ABUSE, AND WITH VENTILATION TO AVOID CONDENSATION.
61. APPLICATION OF A MATERIAL OR EQUIPMENT ITEM TO WORK INSTALLED BY OTHERS CONSTITUTES ACCEPTANCE OF THAT WORK AND ASSUMPTION OF RESPONSIBILITY FOR SATISFACTORY INSTALLATION AND PERFORMANCE.
62. INSPECT EACH ITEM OF MATERIAL OR EQUIPMENT IMMEDIATELY PRIOR TO INSTALLATION. REJECT DAMAGED AND DEFECTIVE ITEMS.

COORDINATION WITH FIXTURES, FURNISHINGS & EQUIPMENT (FF&E)

63. REVIEW THE OWNER'S SEPARATE CASEWORK/FIXTURES, FURNISHINGS, EQUIPMENT, & SIGNAGE DRAWINGS FOR UNIT SIZES, WEIGHTS, SERVICE-CONNECTIONS AND CLEARANCES REQUIRED - WHETHER FURNISHED OR INSTALLED BY THE CONTRACTOR OR OTHERS. VERIFY THAT REQUIRED ROUGH-INS, CONNECTIONS AND CLEARANCES WILL BE PROVIDED. PROVIDE OPENINGS AND DELIVERY ACCESS FOR FF&E ITEMS, AND PROVIDE STAGING SPACE FOR THEIR INSTALLATION. REPORT DISCREPANCIES OR OMISSIONS OF EQUIPMENT REQUIREMENTS PRIOR TO INSTALLATION.
64. PROVIDE ALL HVAC, PLUMBING, GAS OR ELECTRIC SERVICE CONNECTIONS TO CASEWORK / FIXTURES, SIGNAGE, OR EQUIPMENT INDICATED (WHETHER UNITS ARE INSTALLED BY CONTRACTOR OR BY OTHERS).
65. VERIFY DISPOSITION OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED W/ OWNER. ALL ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER.

GENERAL EXECUTION OF THE WORK

66. ESTABLISH AND MAINTAIN DURABLE MARKERS TO LOCATE ALL ELEMENTS OF THE WORK, INCLUDING BUT NOT LIMITED TO PARTITIONS, CASEWORK, FIXTURES, EQUIPMENT AND LIGHT-FIXTURES, AND THEIR RELATED MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS.
67. AT PROJECTIONS OF FINISHED SURFACES, INCLUDING PILASTERS OR THICKENED WALLS, RETURN ALL EXPOSED SURFACE FINISHES BACK TO THE PRIMARY SURFACE EVEN IF NOT SPECIFICALLY NOTED.
68. PERFORM ALL CUTTING, PATCHING AND FITTING TO ACCOMMODATE CONSTRUCTION WORK AND TO ACHIEVE THE INTENT OF THE CONSTRUCTION DOCUMENTS. CUT & PATCH PARTITIONS FOR INSTALLATION OF PLUMBING OR ELECTRICAL SERVICES AND FOR INSTALLATION OF WALL BLOCKING, IF NECESSARY. PROVIDE ESCUTCHEONS, GROMMETS AND SIMILAR SURFACE CLOSURE OR FINISHED TRIMS AT EXPOSED PENETRATIONS OF FINISHED SURFACES.
69. BRACE PARTITIONS, SUSPEND CEILINGS OR SOFFITS, AND BRACE PLATFORMS, SUSPENDED ITEMS OR SIMILAR CONSTRUCTION ONLY TO STRUCTURAL ELEMENTS ABOVE - EVEN IF NOT SPECIFICALLY NOTED. DO NOT ANCHOR TO ROOF DECK, PLUMBING / SPRINKLER PIPES, DUCTWORK, ELECTRICAL CONDUIT OR SIMILAR ELEMENTS.

FINAL CLEANING

70. JUST BEFORE OWNER OCCUPANCY, CLEAN ALL SURFACES INCLUDING FIXTURES AND EQUIPMENT FOR THE OWNER'S USE AND OPERATION. POLISH GLASS AND PLUMBING FIXTURES TO BE WITHOUT NOTICEABLE STREAKS. VACUUM CLEAN FLOORS AND DAMP WIPE WALLS, FIXTURES AND EQUIPMENT TO BE DUST-FREE WITHOUT STAINS, FILMS AND OTHER DISTRACTING SUBSTANCES.
71. CLEAN THE PROJECT SITE OF RUBBISH, LITTER AND OTHER FOREIGN SUBSTANCES. BROOM CLEAN PAVED AREAS AND REMOVE STAINS, SPILLS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PAVED NOR PLANTED, TO A SMOOTH EVEN-TEXTURED SURFACE.

GENERAL DRAWING REFERENCES

REFER TO GENERAL NOTES SHEETS FOR EACH PROFESSIONAL DISCIPLINE FOR ALL OTHER CONSTRUCTION REQUIREMENTS NOT LISTED BELOW.

72. DIVISION 4 - MASONRY:
    - 72.1. PROVIDE MASONRY CONTROL-JOINTS AT 24 FT SPACING MAXIMUM (EVEN IF NOT NOTED), AND WHERE NOTED ON THE DRAWINGS.
73. DIVISION 5 - METAL:
    - 73.1. PROVIDE .042 INCH (18 GA) COLD-FORMED METAL FRAMING AT 16 INCH OC AT EXTERIOR FRAMED WALLS MINIMUM, OR GREATER AS NOTED ON STRUCTURAL DRAWINGS.
74. DIVISION 6 - WOOD:
    - 74.1. PROVIDE PRESERVATIVE-TREATED WOOD WHEN WOOD IS IN DIRECT CONTACT WITH CONCRETE OR MASONRY
    - 74.2. PROVIDE FIRE-RETARDANT TREATED PLYWOOD BACKING AT ALL ELECTRICAL, PHONE AND SECURITY SYSTEM PANELS.
    - 74.3. PROVIDE CONCEALED WOOD BLOCKING, BRACING OR NAILERS FOR SECURE ANCHORAGE OF ALL SHELVES, RUNNING TRIM, RAILINGS, SUSPENDED ITEMS, DOOR-STOPS, GRAB-BARS, AND OTHER SIMILAR WOODWORK, HARDWARE, SPECIALTIES, ACCESSORIES, FIXTURES OR EQUIPMENT.
    - 74.4. CUT TO FIT ALL WOOD TRIM OR OTHER PREFINISHED TRIM UNITS AND FINISH ALL EXPOSED SURFACES TO MATCH ADJACENT FINISHED MATERIALS. INSTALL WOODWORK WITH A MINIMUM NUMBER OF JOINTS. COPE ALL RETURNS, MITER ALL CORNERS AND USE SCARF-JOINTS AT END-TO-END CONNECTIONS (BUTT JOINTS ARE NOT ACCEPTABLE). REFINISH ALL EXPOSED CUTS AND DAMAGED WOODWORK.
    - 74.5. ANCHOR WOOD BLOCKING TO METAL STUD FRAMING W/ #12 TEK SCREWS @ 16" OC MAX - ANCHOR BLOCKING TO CMU'S OR CONCRETE WITH 1/4" TAPCONS AT MAXIMUM 16" OC. STAGGER FASTENERS WHEN BLOCKING IS WIDER THAN 6" NOMINAL.
75. DIVISION 7 - THERMAL MOISTURE:
    - 75.1. VERIFY THAT ALL EXTERIOR FINISHED GRADES ADJACENT TO EXTERIOR WALL ARE BELOW THE FINISHED FLOOR ELEVATION. IF NOT, PROVIDE WATERPROOF MEMBRANE WITH PROTECTION COURSE OVER EITHER SMOOTH-SURFACED MASONRY OR CAST-IN-PLACE CONCRETE TURNED-UP FROM THE FLOOR SLAB.
    - 75.2. PROVIDE MIN 3-1/2" BATT INSULATION ON CEILINGS ABOVE AND WITHIN PARTITIONS AROUND AND BETWEEN ALL TOILET ROOMS TYPICALLY.
    - 75.3. SEAL ALL EXTERIOR BUILDING JOINTS AT BOTH THE OUTSIDE AND INSIDE SURFACES, AND OTHER OPENINGS AGAINST MOISTURE AND AIR-INFILTRATION. AT JOINTS AROUND STOREFRONT/CURTAIN WALL SYSTEMS, PROVIDE SHIM-SPACE AND SEALANT INSIDE AND OUTSIDE WITH BACKER-ROD.
    - 75.4. PROVIDE SEALANT ALL-AROUND: DOOR OR WINDOW FRAMES, COUNTERTOPS & BACK-SPLASHES, WALL-MOUNTED FIXTURES OR EQUIPMENT (INCLUDING LAVS OR SINKS) TO ADJACENT WALL SURFACES, AND OTHER SIMILAR LOCATIONS.
76. DIVISION 8 - OPENINGS:
    - 76.1. DOOR AND WINDOW DIMENSIONS NOTED ARE NOMINAL - COORDINATE WITH FIELD-CONDITIONS AND VERIFY WITH MANUFACTURERS BEFORE FABRICATION.
    - 76.2. HARDWARE MATERIALS: PROVIDE NON-FERROUS MATERIALS AT EXTERIOR LOCATIONS.
77. DIVISION 9 FINISHES:
    - 77.1. DRYWALL CONTROL JOINTS: LOCATE AS NOTED.
    - 77.1. PROVIDE 5/8" THICK GLASS-MAT GYPSUM BACKER-BOARD AT ALL PARTITIONS W/ TILE FINISH.
    - 77.2. PROVIDE BACK-TO-BACK DOUBLED .0312" (20 GA) METAL STUDS WHERE WALL-BLOCKING IS PROVIDED FOR SUPPORT OF GRAB-BARS OR SHELVING.
    - 77.3. DRYWALL HEADERS: PROVIDE FRAMING @ 16" OC SUSPENDED FROM STRUCTURE ABV W/ 1 LAYER 5/8" GYP BD ON EXPOSED SIDE(S) AND BOTTOM SURFACE.
    - 77.4. PAINT OR STAIN FINISH ALL EXPOSED SURFACES OF CONSTRUCTION UNLESS NOTED OTHERWISE OR IF SURFACE IS PRE-FINISHED. PROVIDE PAINT FINISH MIN AT ALL SURFACES NOT OTHERWISE INDICATED TO RECEIVE OTHER FINISH. FINISH EXPOSED EDGES OR SURFACES OF CUT WOOD OR PREFINISHED TRIM TO MATCH ADJACENT SURFACES.
78. DIVISION 10 - SPECIALTIES:
    - 78.1. AT "ASSEMBLY" OCCUPANCIES PROVIDE "MAXIMUM OCCUPANCY" SIGN IN A CONSPICUOUS LOCATION AS APPROVED BY AHJ.
    - 78.2. ACCESSIBLE DOOR SIGN W/ RAISED LETTERS, PICTORIAL-SYMBOL & BRAILLE PLATE READING "MEN", "WOMEN", "RESTROOM" OR AS APPROPRIATE TO USE/TITLE OF ROOM - MOUNT 9" FROM STRIKE EDGE OF DOOR & 60 INCHES AFF TO SIGN CENTERLINES.
    - 78.3. TOWEL-DISPENSER AND WASTE RECEPTACLE AT EACH LAVATORY OR HAND SINK - PROVIDE WALL BLOCKING IF NECESSARY FOR SECURE ATTACHMENT.
79. DIVISION 11 - EQUIPMENT:
    - 79.1. PROVIDE WATER-SERVICE SHUTOFF-VALVE W/ BACK-FLOW PREVENTER (DOWNSTREAM OF VALVE) AT EA HOT- OR COLD-WATER CONNECTION TO EQUIPMENT (EXCEPT AT SINKS).
    - 79.2. PROVIDE SHUTOFF VALVES (STOPS), SUPPLIES AND TRAPS AT ALL LAVS OR SINKS.
80. DIVISION 21 - FIRE SUPPRESSION SYSTEM NOTES:
    - 80.1. SUBMIT SPRINKLER-SYSTEM DESIGN DRAWINGS TO AHJ AND OWNER (WHEN APPLICABLE) AND OBTAIN THEIR APPROVAL BEFORE STARTING WORK.
    - 80.2. PROVIDE SEMI-CONCEALED TYPE SPRINKLER HEADS IN PUBLIC VIEW AREAS. PROVIDE STANDARD SURFACE-MTD SPRINKLER HEADS IN BACK AREAS NOT IN PUBLIC VIEW, UNLESS OTHERWISE NOTED.
81. DIVISION 32 - SITE IMPROVEMENTS:
    - 81.1. MAXIMUM ALLOWABLE SLOPE OF NEW PAVEMENT: 4.9% (1:21).
    - 81.2. MAXIMUM ALLOWABLE CROSS-SLOPE OF NEW PAVEMENT: 2% (1:48).
    - 81.3. MINIMUM SLOPE OF EXTERIOR PAVEMENT (WITHIN 10 FEET OF BUILDING) 2% DRAINING AWAY FROM BUILDING.

CHASE NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH CHASE'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
3. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN INTENT AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
4. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING ABOVE AND BELOW GRADE, UTILITIES, INCLUDING SANITARY SEWER, STORM SEWER, WATER, GAS, ELECTRICAL, TELEPHONE, ETC. ANY DISCREPANCIES IN UTILITY LOCATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
5. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
6. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
7. UPON COMPLETION OF PROJECT, G.C. TO OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH CHASE WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
8. SIGNS, UNLESS NOTED OTHERWISE, ARE PROVIDED BY CHASE'S SIGN CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE ROUGH-IN & FINAL CONNECTION AND BRAILLE EXIT SIGN.
9. GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING CHASE RETAIL MOVE-IN.
10. GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING CHASE RETAIL MOVE-IN. (40 HOURS) GENERAL CONTRACTOR TO MAINTAIN SUPERINTENDENT AVAILABILITY DURING ENTIRE WEEK OF RETAIL MOVE-IN TO ASSIST AS NECESSARY.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
12. GENERAL CONTRACTOR TO PROVIDE FINAL KEYING ON DAY OF TURNOVER PER CHASE KEYING GUIDELINES.
13. REFER TO "PROJECT MANUAL" FOR ALL OTHER INSTRUCTIONS & DIRECTIVES NOT SHOWN IN DRAWINGS.

RESPONSIBILITY MATRIX

ITEM	FURNISHED/ INSTALLED BY CHASE'S EQUIPMENT CONTRACTOR	FURNISHED/ INSTALLED BY GENERAL CONTRACTOR	FURNISHED BY CHASE/ INSTALLED BY GENERAL CONTRACTOR	COORDINATED BY GENERAL CONTRACTOR (YES/NO)
EXTERIOR BLDG. SIGNAGE (SEE NOTE 4)	X			YES
ATM - WALK OR DRIVE-UP (SEE NOTE 3)	X			YES
NIGHT DEPOSITORY	X			YES
MERCHANT AND TELLER LINE COUNTERS	X			YES
TELLER CASH DISPENSERS	X			YES
UNDER COUNTER BANK EQUIPMENT	X			YES
FURNITURE	X			YES
DIGITAL DISPLAYS	X			YES
EMPLOYEE LOCKERS	X			YES
TELECOMMUNICATIONS	X			YES
DATA PROCESSING	X			NO
SECURITY SYSTEM (SEE NOTE 5)	REFER TO SECURITY DRAWING FOR RESPONSIBILITIES			
COPY MACHINE	X			NO
INTERIOR BLDG. SIGNAGE (SEE NOTE 4)	X			NO
TEMPORARY CONSTRUCTION SIGN	X			YES
TOILET ROOM SIGNS & ALL ACCESSORIES		X		YES
MOTORIZED & MANUAL SHADES		X		YES
CARPET TILE & RESILIENT FLOORING		X		YES
VESTIBULE WALK OFF MAT		X		YES
FLOORING		X		YES
MILLWORK		X		YES
PAINTING & WALL COVERING		X		YES
MICROWAVE AND REFRIGERATOR		X		YES
PERMANENT CORES/KEYING		X		NO
WASTE CONTAINER (EXT.)		X		YES
UTILITIES & FIRE PROTECTION SERVICES		X		YES
DOOR HARDWARE		X		YES
MUZAK SOUND SYSTEM	X			YES
AREA RUGS		X		YES
MAILBOX (SEE NOTE 6)		X		YES
BICYCLE RACK		X		YES
MONUMENT SIGN (SEE NOTE 7)	X			YES

NOTES:

1. FOR OWNER'S EQUIPMENT GENERAL CONTRACTOR TO PROVIDE REQUIRED OPENINGS, ACCESS PANELS, AND ELECTRICAL REQUIREMENTS (INCLUDING FINAL HOOK-UP).
2. MILLWORK ITEMS. GENERAL CONTRACTOR TO PROVIDE "BACK OF STORE" MILLWORK WHICH INCLUDES BASE AND WALL CABINETS, WORK COUNTERS AND SHELVING.
3. ATM BUILDING, ATM SURROUNDS. GENERAL CONTRACTOR TO PROVIDE POWER & CONDUITS.
4. SIGNAGE TO INCLUDE DIRECTIONAL SIGNAGE, AND MAIN BUILDING LETTER SET. GENERAL CONTRACTOR TO PROVIDE CONDUIT, ROUGH-IN & FINAL ELECTRICAL CONNECTIONS.
5. ELECTRONIC SECURITY SYSTEM INCLUDING ALARM AND CCTV. GENERAL CONTRACTOR TO PROVIDE CONDUITS, POWER, AND PLYWOOD AT DATA ROOM. REFER TO SECURITY PLAN FOR ITEMS TO BE ACCOMMODATED IN GENERAL CONTRACTORS BASE BID.
6. FINAL LOCATION DETERMINED BY BRANCH PLANNING.
7. MONUMENT SIGN FOUNDATION/MASONRY BY CONSULTANT'S SIGN VENDOR. ELECTRICAL BY GENERAL CONTRACTOR.
8. EQUIPMENT CONTRACTOR IS A SUBCONTRACTOR OF THE OWNER.
9. GENERAL CONTRACTOR TO FURNISH QUANTITY TAKEOFF INCLUDING 10% ATTIC STOCK

ALL DIMENSIONS ARE FROM SUBSTRATE TO SUBSTRATE OR FACE OF MASONRY, U.N.O.

DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

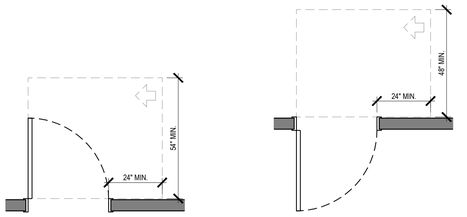
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

GENERAL NOTES, RESPONSIBILITY SCHEDULE, DRAWING CONVENTIONS, & ABBREVIATIONS

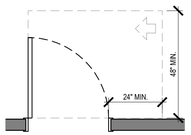
SHEET NUMBER

A0.2



LATCH APPROACH,
DOOR PROVIDED WITH CLOSER

LATCH APPROACH,
DOOR PROVIDED WITH CLOSER



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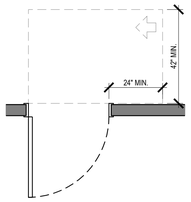

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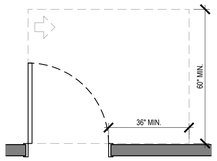
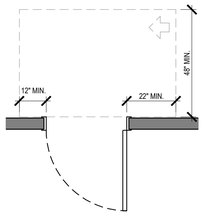
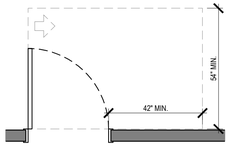


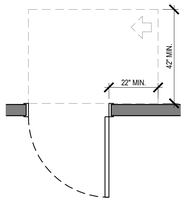
HINGE APPROACH



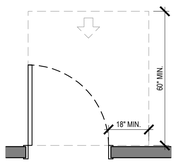
HINGE APPROACH,
DOOR PROVIDED WITH CLOSER & LATCH



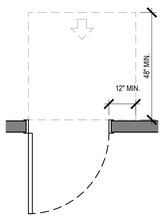
HINGE APPROACH



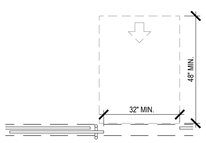
HINGE APPROACH



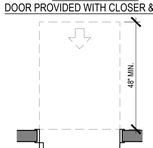
FRONT APPROACH



FRONT APPROACH,
DOOR PROVIDED WITH CLOSER & LATCH



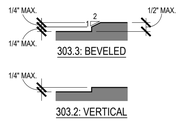
FRONT APPROACH, SLIDING DOOR



FRONT APPROACH

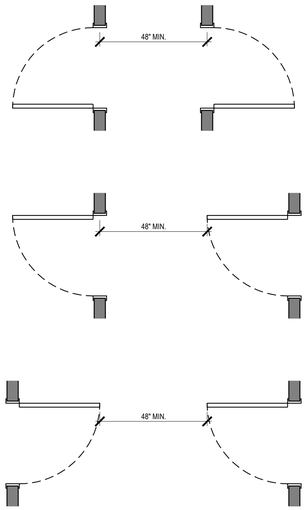
PULL SIDE PUSH SIDE

SECTION 404.2.4: MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

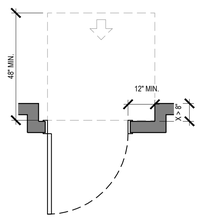


304.2, 305.2 & 404.2.4.4: CHANGES IN LEVEL NOT PERMITTED IN TURNING SPACES, CLEAR FLOOR SPACES AND DOOR MANEUVERING CLEARANCES

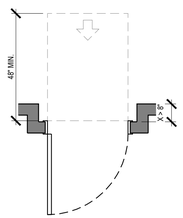
SECTION 303: CHANGES IN LEVEL



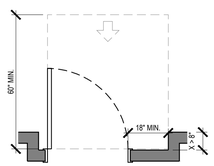
SECTION 404.2.6: DOORS IN SERIES



DOOR PROVIDED WITH CLOSER & LATCH

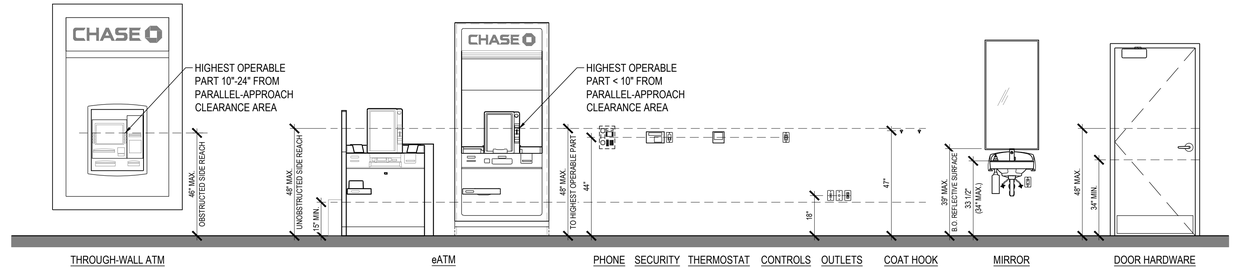


PUSH SIDE



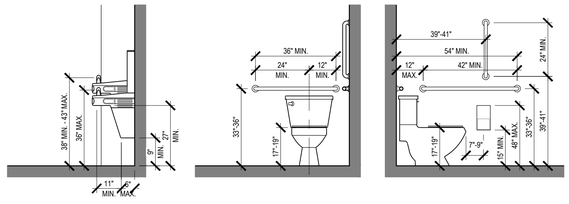
PULL SIDE

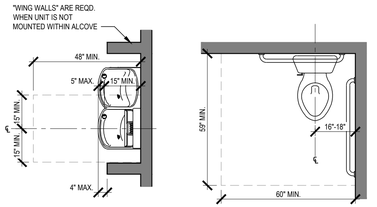
SECTION 404.2.4.3: MANEUVERING CLEARANCES AT RECESSED DOORS



THROUGH-WALL ATM eATM PHONE SECURITY THERMOSTAT CONTROLS OUTLETS COAT HOOK MIRROR DOOR HARDWARE

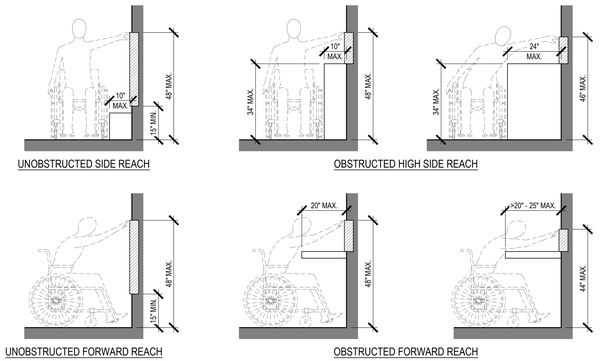
SECTION 308: REACH RANGE / SECTION 309: OPERABLE PARTS



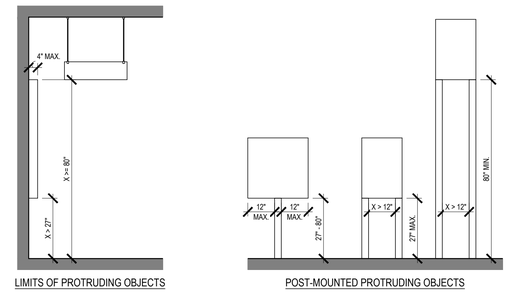


SECTION 602: DRINKING FOUNTAINS

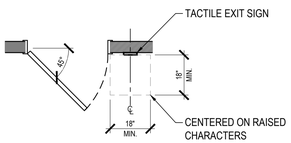
SECTION 604: WATER CLOSETS



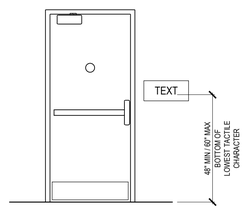
SECTION 308: REACH RANGES / SECTION 309: OPERABLE PARTS



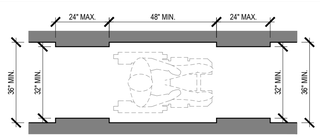
SECTION 307: PROTRUDING OBJECTS



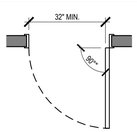
SECTION 703.3.11: LOCATIONS OF SIGNS AT DOORS



SECTION 703.3.10: HEIGHT ABOVE FLOOR



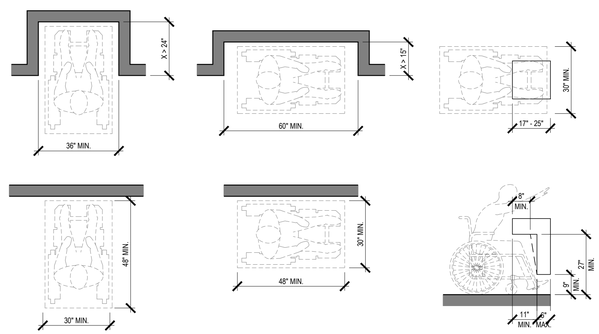
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



CLEAR WIDTH OF DOORWAYS

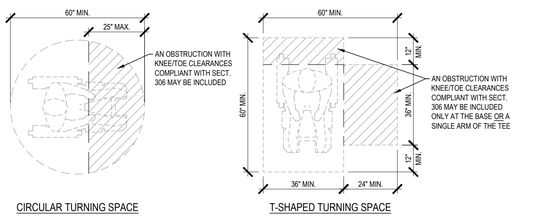
SECTION 403: WALKING SURFACES

SECTION 404: DOORS, DOORWAYS, AND GATES



SECTION 305: CLEAR FLOOR OR GROUND SPACE

SECTION 306: KNEE AND TOE CLEARANCE



SECTION 304: TURNING SPACE

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

CORE STATES GROUP
CORESTATES, INC.
6500 Chippewa Street Suite 200
St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

ANSI ACCESSIBILITY DETAILS

SHEET NUMBER

A0.3

Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-1001

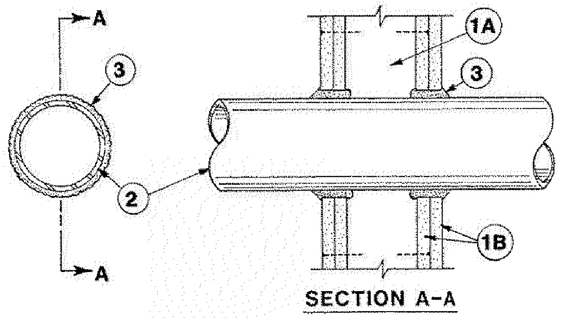
June 15, 2005

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft

L Rating At 400 F — less than 1 CFM/sq ft



1. **Wall Assembly —** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Product* —** Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

3. **Fill, Void or Cavity Material* — Caulk or Sealant —** Min 5/8. , 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY — CP 25WB+ or FB-3000 WT.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

3 A0.4 THROUGH-PENETRATION FIRESTOP SYSTEM W-L-1001

N.T.S.

Through-penetration Firestop Systems

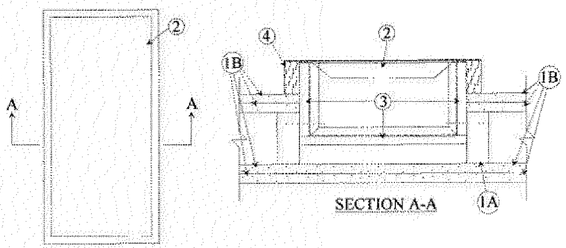
See General Information for Through-penetration Firestop Systems

System No. W-L-7005

October 31, 2006

F Rating — 2 Hr

T Rating — 2 Hr



1. **Wall Assembly —** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC. When aluminum trim is used with cabinets, the wall opening shall be framed on all sides using lengths of studs installed between vertical studs and attached to the studs at each end.

B. **Gypsum Board*** — Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design.

2. **Cabinets*** — Fire extinguisher cabinet installed per manufacturers installation instructions in max 33-3/4 by 17-3/4 in. opening on one side of the wall. Max gap between cabinet and wallboard shall be 1/8 in.

MODERN METAL PRODUCTS — Models Nos. 101R-1, 101SR-2, 101SR-3.5, 102R-1, 102SR-2, 102SR-3, 102(6)R-1, 102(6)SR-2, 102(6)SR-3, 102(6)SR-4, 104R-1, 104SR-2, 104SR-3, 104SR-4, 105R-1, 105SR-2, 105SR-3, 105SR-4, 106SR-1, 106SR-2, 106SR-3, 106SR-4, 118R-1, 118SR-2, 118SR-3, 120R-1, 120SR-2, 120SR-3, 145R-1, 145SR-3, 147R-1, 147SR-3, 180R-1, 180SR-2, 180SR-3, 184R-1, 184SR-2, 184SR-3, 184SR-4, 186R-1, 186SR-2, 186SR-3, 186SR-4.

3. **Gypsum Board*** — Any 5/8 in. thick gypsum wallboard bearing the UL Classification Marking as to Fire Resistance. Gypsum wallboard installed in the fire extinguisher cabinets (Item 2) per manufacturers installation instructions. See **Gypsum Board** category for names of manufacturers.

4. **Mineral Wool —** Min 4.0 pcf mineral wool batt insulation firmly packed inside cabinet trim.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

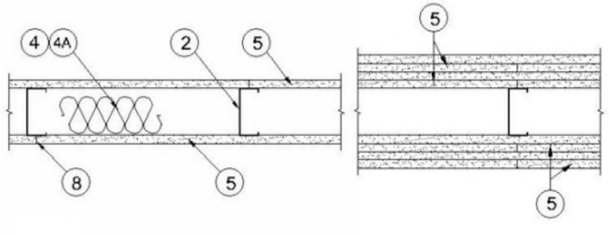
2 A0.4 THROUGH-PENETRATION FIRESTOP SYSTEM W-L-7005

N.T.S.

Design No. U419

February 19, 2013

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



1 A0.4 UL U419 1-HR RATED ASSEMBLY

N.T.S.

1. **Floor and Ceiling Runners —** (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only.)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2D, 2E, 2G and 2H	Min Stud Depth, in. Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

6. **Fasteners —** (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

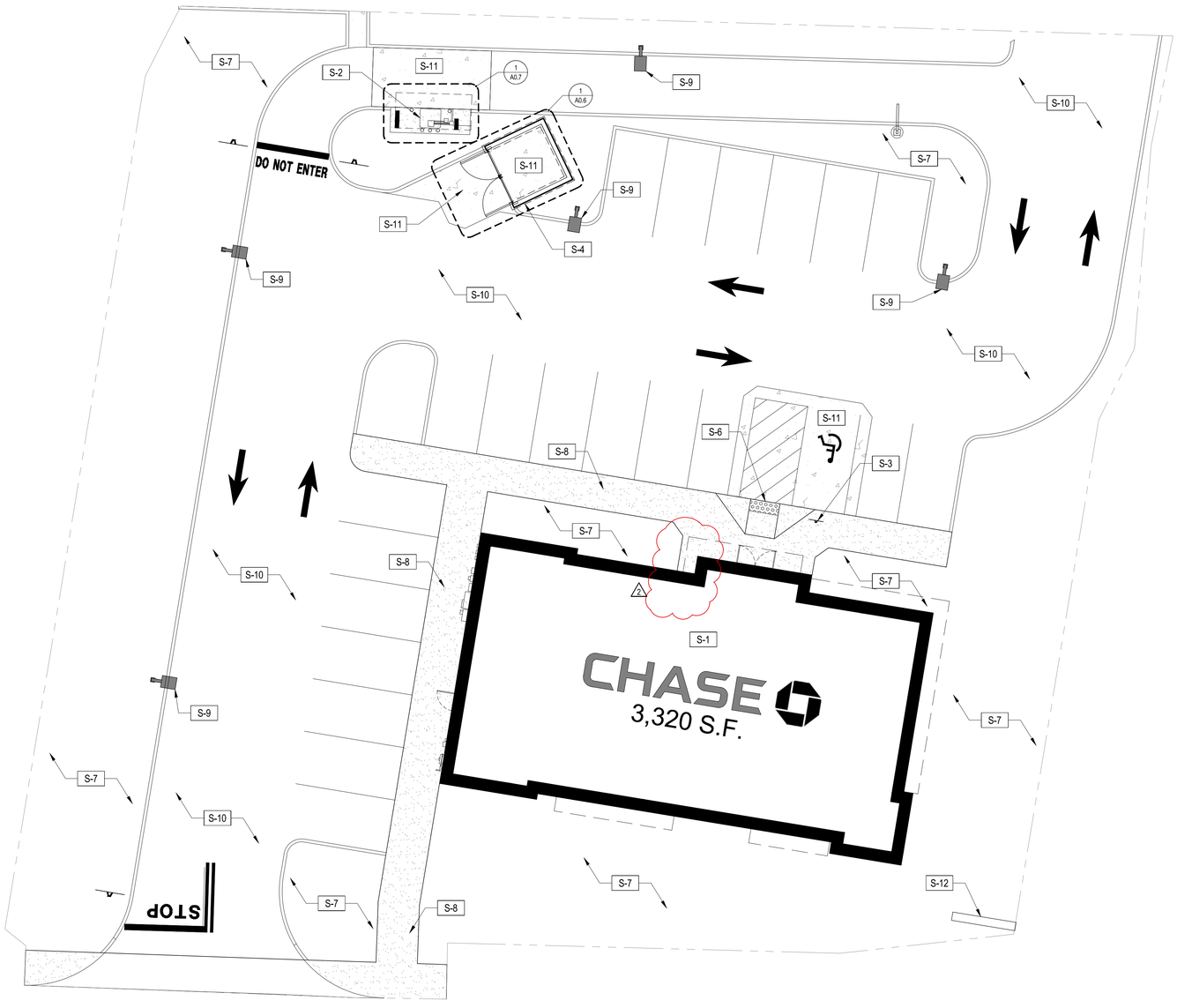
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	S.KRAMER
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

UL LISTING

SHEET NUMBER

A0.4



GENERAL SITE PLAN NOTES

A	SEE CIVIL DRAWINGS FOR BUILDING SETBACKS, DRAINAGE, PAVING, AND GRADING INFORMOATION - SETBACKS AMENDED PER HEARING.

SITE PLAN KEYNOTES

S-1	PROPOSED 3,320 SF CHASE BANK
S-2	PROPOSED DRIVE-UP ATM
S-3	PROPOSED ACCESSIBLE PARKING SIGN
S-4	PROPOSED TRASH ENCLOSURE
S-5	PROPOSED BIKE RACK
S-6	PROPOSED DETECTABLE WARNING DEVICE
S-7	PROPOSED GRASS/LANDSCAPED AREAS
S-8	PROPOSED CONCRETE SIDEWALK
S-9	PROPOSED SITE LIGHTING
S-10	PROPOSED ASPHALT
S-11	PROPOSED HEAVY DUTY CONCRETE PAD
S-12	PROPOSED MONUMENT SIGN

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 15, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

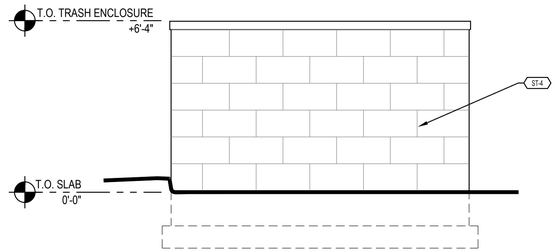
ARCHITECTURAL SITE PLAN

SHEET NUMBER

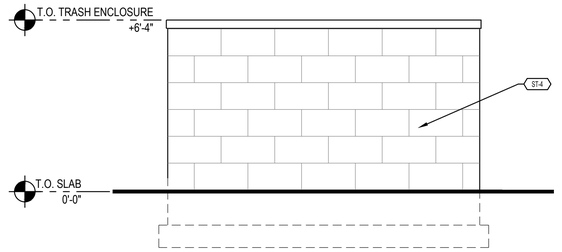
A0.5

1 / A0.5 ARCHITECTURAL SITE PLAN
3/32" = 1'-0"

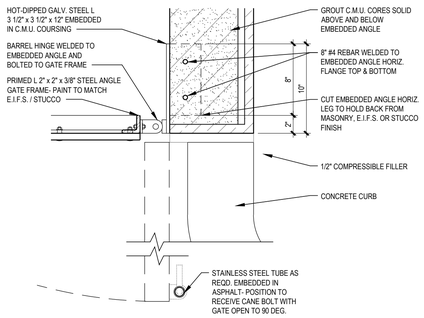
N



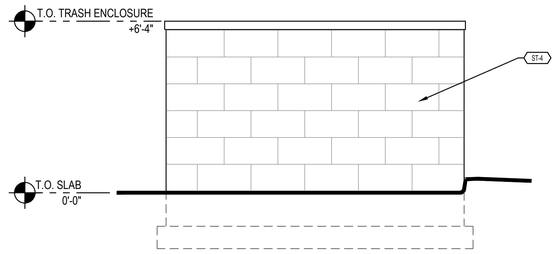
5 A0.6 TRASH ENCLOSURE - SOUTH ELEVATION
3/8" = 1'-0"



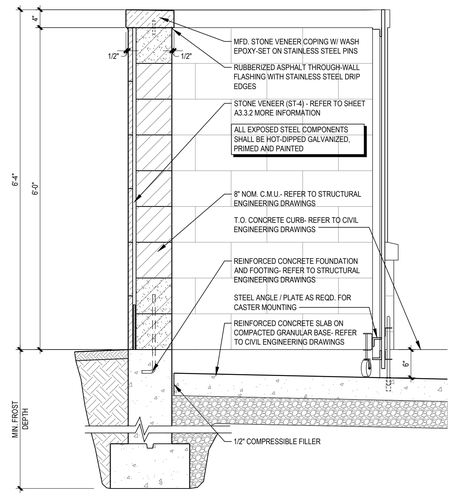
4 A0.6 TRASH ENCLOSURE - EAST ELEVATION
3/8" = 1'-0"



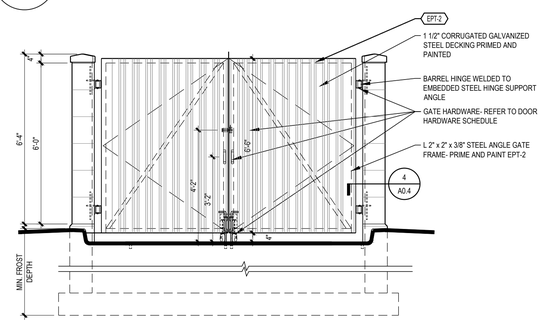
8 A0.6 TRASH ENCLOSURE - CORNER DETAIL
1 1/2" = 1'-0"



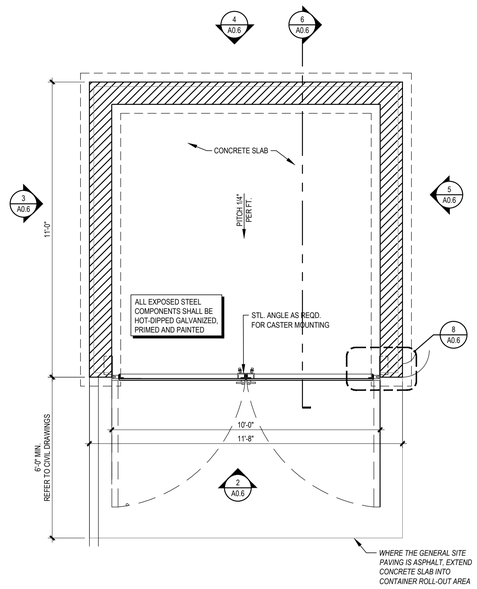
3 A0.6 TRASH ENCLOSURE - NORTH ELEVATION
3/8" = 1'-0"



6 A0.6 TRASH ENCLOSURE - SECTION
3/4" = 1'-0"



2 A0.6 TRASH ENCLOSURE - WEST ELEVATION
3/8" = 1'-0"



1 A0.6 TRASH ENCLOSURE - PLAN
3/8" = 1'-0"

N

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

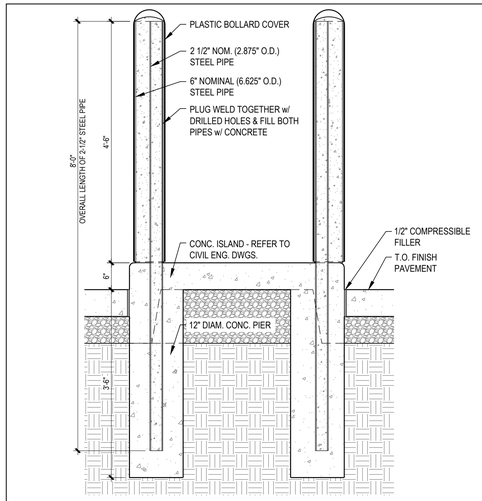
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

TRASH ENCLOSURE DETAILS

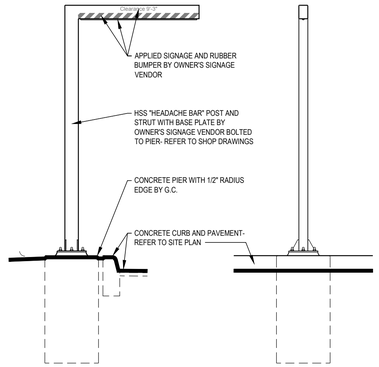
SHEET NUMBER

A0.6



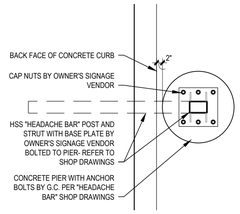
7 A0.7 DRIVE- UP ISLAND ATM BOLLARD

3/4" = 1'-0"



6 A0.7 DETACHED DRIVE-UP APPROACH ELEVATION

3/8" = 1'-0"

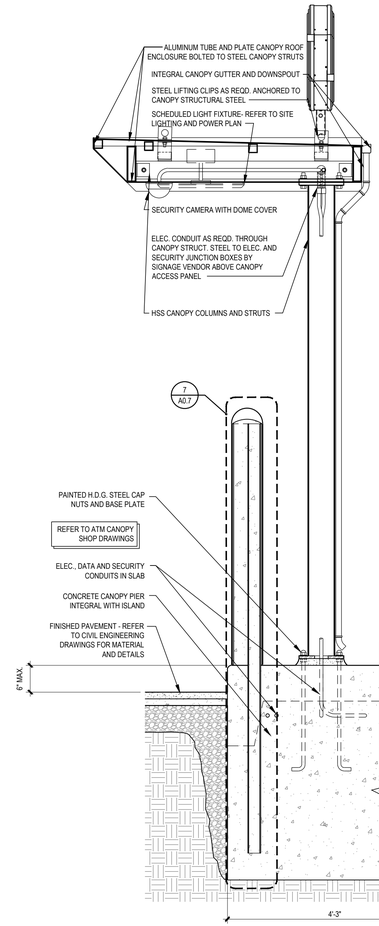


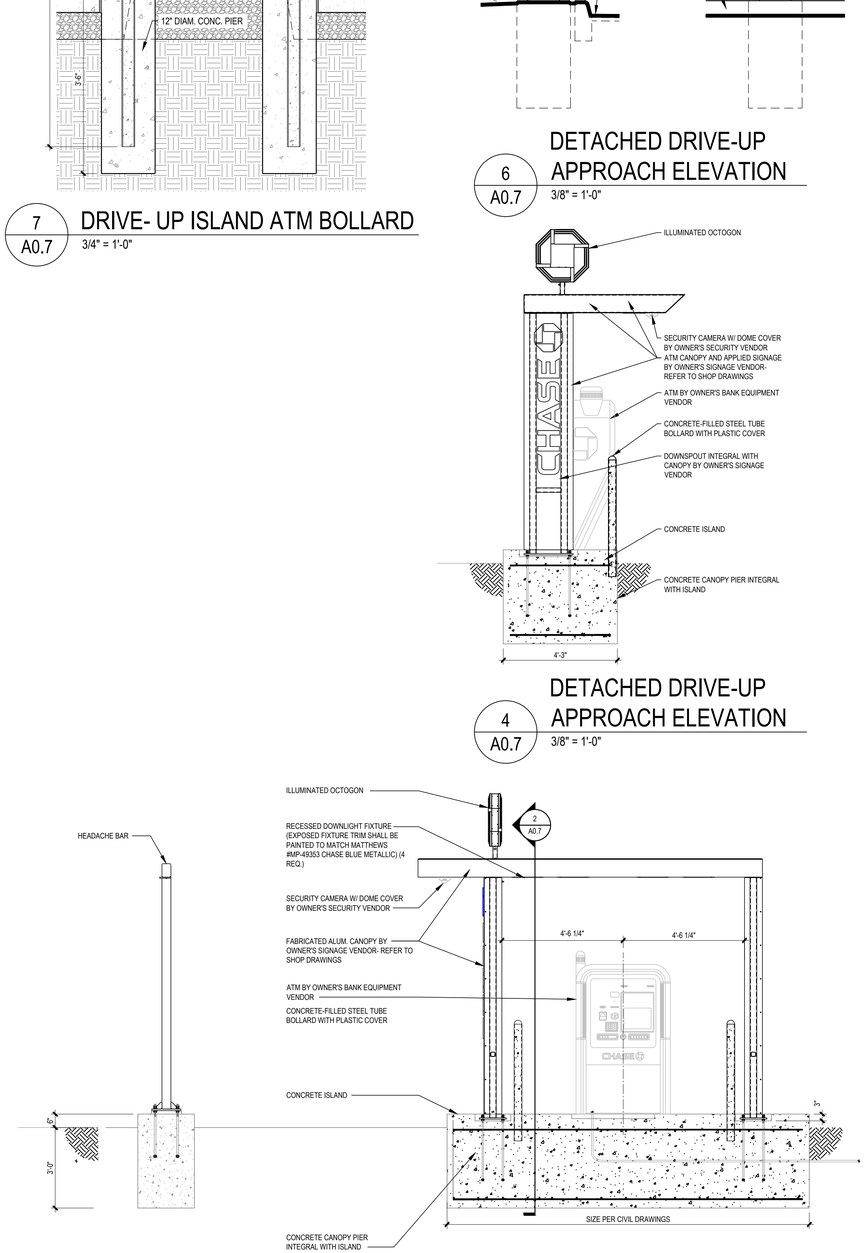
5 A0.7 HEADACHE BAR PLAN

1/2" = 1'-0"

4 A0.7 DETACHED DRIVE-UP APPROACH ELEVATION

3/8" = 1'-0"



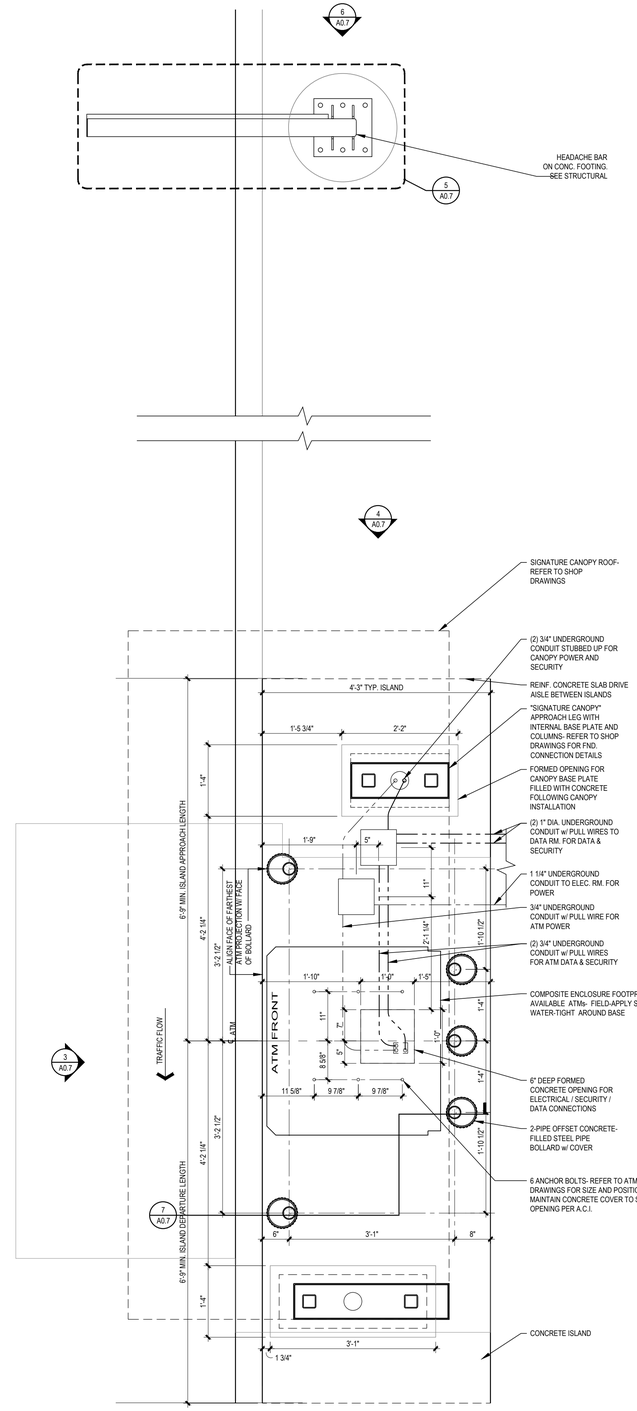


3 A0.7 DETACHED DRIVE-UP CUSTOMER-FACING ELEVATION

3/8" = 1'-0"

2 A0.7 DETACHED DRIVE-UP CANOPY ISLAND SECTION

3/4" = 1'-0"



GENERAL NOTES:

1. COMPOSITE FOOTPRINT OF AVAILABLE ATM ENCLOSURES AND 'SIGNATURE CANOPY' SHOWN. VERIFY EXACT MODELS FOR PROJECT WITH THE OWNER AND SIGNAGE VENDOR AND COORDINATE DETAILS AS REQUIRED.
2. "SIGNATURE CANOPY" SHALL BE PROVIDED BY OWNER'S SIGNAGE VENDOR AND INSTALLED BY THE G.C.
3. ONCE ATM IS SET, G.C. IS TO FILL ANY EXPOSED WIRING TRENCH. WATER TIGHT SEAL REQUIRED.
4. EXPANSION BOLTS ARE NOT TO BE PLACED WITHIN 3" OF A CONDUIT OR JUNCTION BOX UNLESS THE EXPANSION HEAD OF THE ANCHOR BOLT IS BELOW THE LEVEL OF THE CONDUIT OR JUNCTION BOX WITHIN THE CONCRETE.
5. ELECTRICAL CONTRACTOR MUST BE ON-SITE WHEN WHEN ATM IS SET.
6. DEDICATED 30A CIRCUIT REQUIRED FOR EACH ATM.

1 A0.7 DRIVE-UP ISLAND ATM PLAN

3/4" = 1'-0"

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

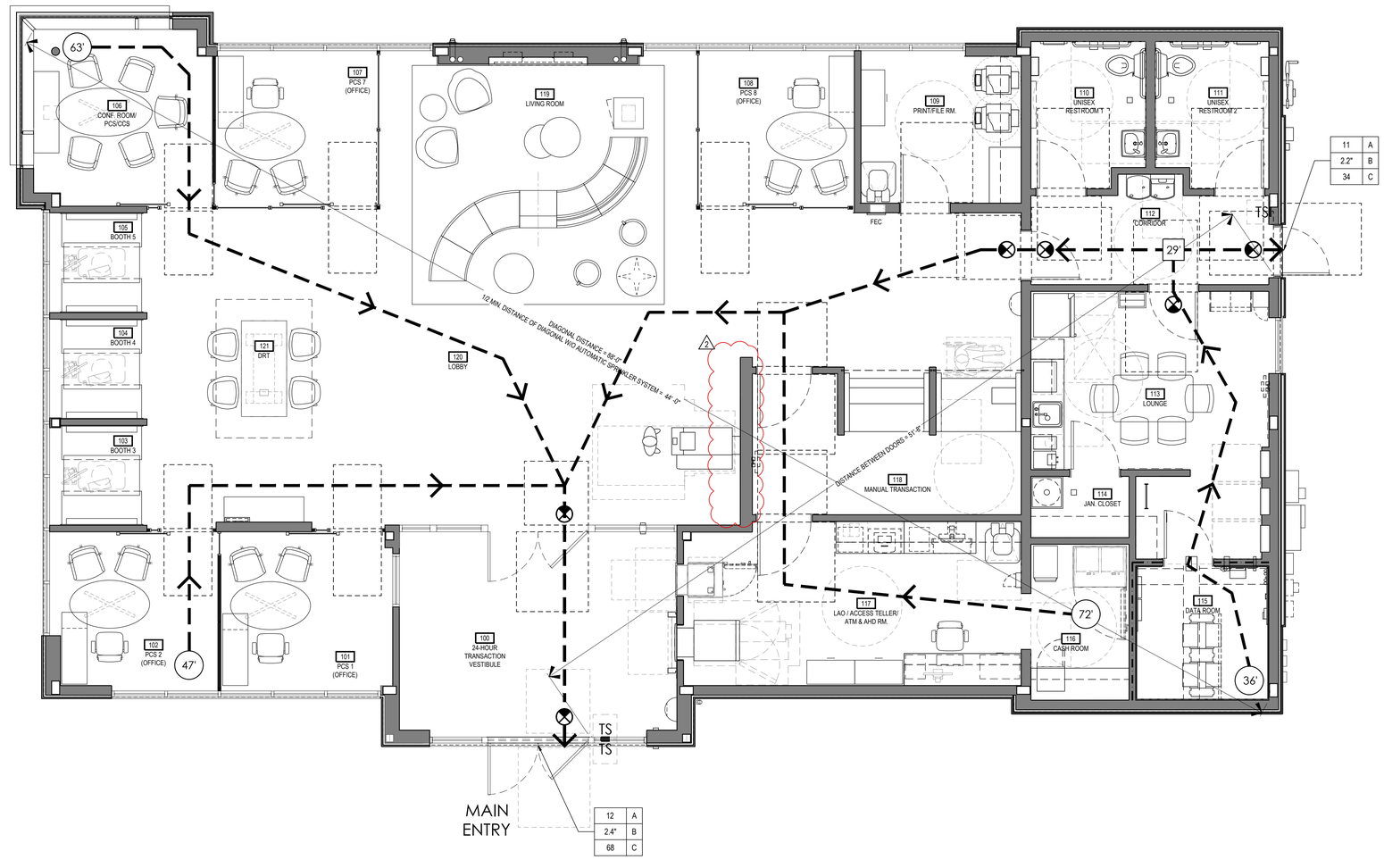
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

DRIVE-UP ISLAND & REMOTE SIGNATURE CANOPY DETAILS

SHEET NUMBER

A0.7



FIRE EXSTINGUISHER LEGEND

TYPE 1 - 10 LB. DRY CHEMICAL (ABC) MP10 W/ ARCHITECTURAL SERIES CABINET (WHERE NOTED) - 2409-6R VERTICAL DUO LAMINATED SAFETY GLASS ROUGH OPENING = 25" X 10-1/2" X 4" MOUNT AT 50" A.F.F. TO TOP OF OPENING

ACCESSIBILITY NOTES

WHILE IT IS THE INTENT OF THE ARCHITECT, HIS EMPLOYEES, AND ASSIGNS TO ADHERE TO ALL ASPECTS AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND LOCAL ACCESSIBILITY CODES, THE CONTRACTOR SHALL NOT BE RELIEVED OF SOLE RESPONSIBILITY TO VERIFY ALL REQUIREMENTS OF SAID ACTS AS PERTAINING TO CONTRACT DOCUMENT CONTAINED HEREIN PRIOR TO COMMENCEMENT OF ANY WORK. HE SHALL ALSO BE RESPONSIBLE TO IMMEDIATELY NOTIFY DESIGNER OF POSSIBLE DISCREPANCIES. HE SHALL ALSO PAY SPECIAL ATTENTION TO ITEMS LISTED BELOW:

A. REFER TO A0.1, COVER SHEET, FOR CODE SUMMARY & BUILDING DATA.

B. REFER TO ARCHITECTURAL FLOOR PLANS FOR BUILDING DIMENSIONS.

C. REQUIRED ACCESSIBLE PARKING AREAS, CURBS, CROSSWALKS, SIGNS, ETC. SHALL COMPLY WITH CURRENT STATE AND LOCAL CODES.

D. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:

D.A. EACH GRADE LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".

D.B. EACH EXIT, EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE".

E. THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.

F. NO THRESHOLD SHALL EXCEED 1/2" IN HEIGHT.

G. HAND-OPERATED DOOR OPENING HARDWARE SHALL NOT REQUIRE TIGHT GRASPING OR TWISTING OF THE WRIST IN ORDER TO OPERATE, AND SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F.

H. MAXIMUM FORCE REQUIRED TO OPEN EXTERIOR DOORS SHALL NOT EXCEED 8.5 LBS. MAXIMUM FORCE REQUIRED TO OPEN INTERIOR DOORS SHALL NOT EXCEED 5 LBS.

I. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 5 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

J. FAUCET CONTROL AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, FLUSH TYPE AND ELECTRONICALLY OPERATED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR A MINIMUM OF 10 SECONDS.

K. PROVIDE SIGNAGE WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY IN ACCORDANCE WITH ANSI A117.1 (LATEST EDITION) AND ADA REQUIREMENT.

L. SIGNAGE HEIGHT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ACCESSABILITY CODES.

M. RESTROOM SIGNAGE SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE RESPECTIVE RESTROOM DOOR.

N. IF FIRE ALARM SYSTEMS ARE REQUIRED, REFER TO FIRE ALARM DRAWINGS FOR PULL STATIONS AND STROBE MOUNTING HEIGHTS AND LOCATIONS.

O. ALL ACCESSIBLE LANDINGS SHALL NOT EXCEED THE 2% MAX SLOPE IN ALL DIRECTIONS.

P. IF FIRE ALARMS ARE REQUIRED, REFER TO FIRE ALARM DRAWINGS FOR PULL STATIONS AND STROBE MOUNTING HEIGHTS AND LOCATIONS.

EXITING REQUIREMENTS

		REQUIRED	PROVIDED
COMMON PATH OF EGRESS TRAVEL MAX	=	75'	29'
MINIMUM NUMBER OF EXITS	=	2 EXITS	2
TRAVEL DISTANCE MAX	=	200'	72'
DEAD END CORRIDOR	=	20'	0'
DIAGONAL OF BUSINESS AREA	=	88'-0"	
1/2 MIN. DISTANCE OF DIAGONAL W/O AUTOMATIC SPRINKLER SYSTEM			
88'-0" / 2	=	44'-0"	51'-8"

LIFE SAFETY LEGEND

- # — TOTAL LENGTH OF EXIT TRAVEL DISTANCE (FEET) FROM START POINT
- # — COMMON PATH OF EGRESS TRAVEL DISTANCE (FEET) FROM START POINT
- EXIT SIGN (SEE ELECTRICAL SHEETS) — LOCATION OF EXIT TEXT
- EXIT TRAVEL DISTANCE (36" CLEAR WIDTH MIN.)
- FEC — FIRE EXTINGUISHER CABINET
- ISA — INTERNATIONAL SIGN OF ACCESSIBILITY
- TS — TACTILE "EXIT" SIGN
- FIRE EXTINGUISHER

EGRESS CAPACITY LEGEND

A	*OCCUPANT LOAD AT EXIT (# OF OCCUPANTS / # DOORS*
B	*REQUIRED EXIT WIDTH [0.2" x PER OCCUPANT - (INCHES)]*
C	*PROVIDED EXIT WIDTH (INCHES)*

WALL LEGEND

- NEW WALL CONSTRUCTION
- NEW 1-HR RATED WALL CONSTRUCTION

1 / A1.1.0 LIFE SAFETY & ACCESSIBILITY PLAN
1/4" = 1'-0"

0 2 4 8 FT

N

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 18, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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-	2020.12.21	PERMIT SET
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2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

LIFE SAFETY & ACCESSIBILITY PLAN

SHEET NUMBER

A1.1.0

GENERAL FLOOR PLAN NOTES

A	ALL INTERIOR WALL PARTITIONS TO BE 'W.I' U.N.O. (SEE SHEET A3.1.0 FOR ADDITIONAL INFORMATION).
B	ALL DOOR FRAMES TO HAVE 4" RETURN ON HINGE SIDE U.N.O.
C	NOT ALL KEYNOTES MAY BE USED. REFER TO DRAWING.
D	ALL EXTERIOR SHEATHING SHALL BE DENSGLASS.

FLOOR PLAN KEYNOTES

1	STRUCTURAL COLUMN: COORDINATE WITH STRUCTURAL ENGINEERING DRAWINGS
2	POWER DATA FLOOR BOX: REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE LOCATIONS WITH STRUCTURAL DRAWINGS.
3	ROOF ACCESS LADDER & SCUTTLE: REFER TO ROOF PLAN AND DETAIL AS NOTED
4	SOFFIT / BULKHEAD ABOVE: REFER TO REFLECTED CEILING PLANS, SECTIONS, DETAILS AND INTERIOR ELEVATIONS. PROVIDE DEFLECTION TRACK AT UNDERSIDE OF ROOF / FLOOR STRUCTURE ABOVE TO ALLOW BULKHEAD TO REST ON DEMOUNTABLE PARTITION SYSTEM BELOW.
5	CARD READER: REFER TO EXTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6	AUTOMATIC DOOR OPERATOR SYSTEM: REFER TO ELEVATIONS AND DOOR SCHEDULE.
7	SUNSHADE SYSTEM: KAWNEER SUNSHADE.
7A	ENTRANCE CANOPY : MAPES SUPER LUMIDECK CANOPY SYSTEM SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENED TO BUILDING STRUCTURE- REFER TO ELEVATIONS AND WALL SECTIONS.
8	CUSTOM SHOP-FABRICATED BUILT-IN MILLWORK: RFER TO INTERIOR ELEVATIONS - SUBMIT SHOP DRAWINGS AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL.
9	ADJUSTABLE SHELVES: REFER TO INTERIOR ELEVATIONS- PROVIDE BLOCKING IN WALL AS REQUIRED
10	CONCRETE STOOP: ACCESSIBILITY-COMPLIANT CONTINUOUS PAVING TO PUBLIC R.O.W. REQD. FROM ALL EXITS
11	EQUIPMENT/ APPLIANCE: REFER TO EQUIPMENT INSTALLATION MANUAL - COORDINATE WITH EQUIPMENT INSTALLER - PROVIDE ELECTRICAL, DATA, AND SECURITY ROUGH-IN WORK AS REQUIRED - FRAME WALL OPENING AND PREPARE FLOOR SUBSTRATE AS REQUIRED. PROVIDE BLOCKING IN WALL AS REQUIRED.
12	FIRE EXTINGUISHER AND CABINET: PROVIDE THE MINIMUM NUMBER REQUIRED AND COORDINATE FINAL LOCATIONS WITH LOCAL FIRE MARSHALL- PROVIDE ADJACENT ACCESSIBILITY CLEARANCES.
12A	WALL-MOUNT FIRE EXTINGUISHER: CARBON DIOXIDE ONLY / WATER OR DRY CHEMICAL TYPES NOT PERMITTED, CLASS C OR B-C, 5 LB. OR SMALLER, SET WALL BRACKET TO KEEP HANDLE <48" A.F.F.
13	KNOX BOX: MOUNTED 60" A.F.F. FLUSH WITH SURROUNDING WALL SURFACE. VERIFY LOCATION WITH LOCAL FIRE MARSHALL TO ENSURE COMPLIANCE. PAINT TO BLEND WITH SURROUNDING WALL FINISH.
14	CEILING LIGHT FIXTURE COVE- REFER TO REFLECTED CEILING PLAN
15	RECESSED ATM KEY BOX MOUNTED AT 36" A.F.F.
16	STOREFRONT GLAZING SYSTEM INTERIOR PARTITION - REFER TO INTERIOR ELEVATIONS
17	DEMOUNTABLE PARTITION SYSTEM WITH INTEGRAL DOORS AND POWER, DATA AND SECURITY CONDUIT SYSTEMS, ANCHORED TO BUILDING WALLS, SUBFLOOR, AND BULKHEADS
18	FLOOR DRAIN: REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
19	MOP SINK: REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
20	INSTALL SECURITY MESH ABOVE CEILING TO STRUCTURAL DECK TO SECURE TRANSACTION VESTIBULE.
21	*NOT USED* SPANDREL GLASS: OPACI-COAT #3-0770 WARM GREY (FOR USE WITH PPG). SEE SPECIFICATIONS.
22	THROUGH WALL ROOF DRAIN. REFER TO PLUMBING DRAWINGS.
23	ACTIVE DOOR LEAF FOR AUTOMATIC DOOR OPERATOR.
24	AUDIO/VIDEO EQUIPMENT: REFER TO SHEET A1.1.4 FOR SOLUTION TYPE AND ADDITIONAL INFORMATION.
25	EXIT ALARM POWER SUPPLY: INSTALLED ABOVE FINISH CEILING OVER ALARMED EGRESS DOORS - REFER TO ELECTRICAL DRAWINGS.
26	ELECTRICAL PANELS: LOCKING ENCLOSURES FOR ELECTRICAL MAIN SERVICE AND DISTRIBUTION.
27	PROVIDE PAINTED F.T. PLYWOOD TO 8' A.F.F. AT ALL DATA ROOM WALLS.
28	UTILITY EQUIPMENT: REFER TO EXTERIOR ELEVATIONS, SITE PLAN, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
29	G.C. TO INSTALL PLASTIC GROMMET AND PVC CONDUIT AT MANUAL TRANSACTION STATION. REFER TO SHEET A6.10 FOR ADDITIONAL INFORMATION.
30	G.C. TO PULL CONDUIT FOR SECURITY CAMERA IN MULLION.
31	NOT USED
32	NOT USED
33	EDGE OF SLAB SHOWN FOR CLARITY WITH HIDDEN LINE. REFER TO STR DWGS FOR ADDITIONAL INFORMATION.
34	DOWNSPOUT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

WALL LEGEND

NEW WALL CONSTRUCTION

1 / A1.1.1 CONSTRUCTION FLOOR PLAN
1/4" = 1'-0"

N

CHASE

JP MORGAN CHASE, N.A.
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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
June 15, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

CONSTRUCTION FLOOR PLAN

SHEET NUMBER

A1.1.1

P:\JP Morgan Chase\Users\Lee's Summit, MO (Hwy 291 and SE Langford Rd)\JPM.27135.001\ARBPS_Drawings\A1.1_Hwy 291 and NE Langford Rd_JPM_Construction Floor Plan.dwg
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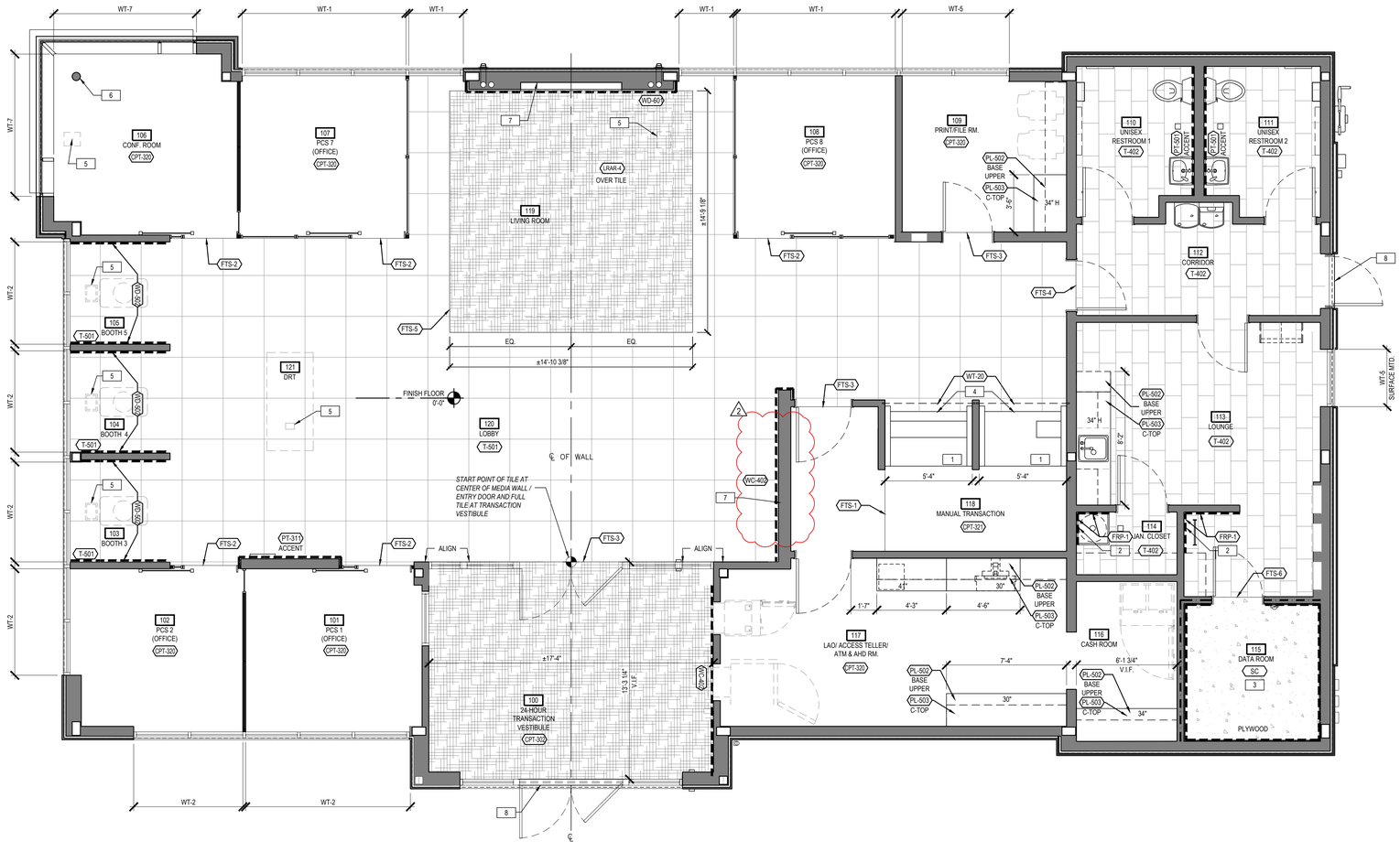

1 A1.1.3 FINISH PLAN
1/4" = 1'-0"

N

GENERAL FINISH NOTES

A. *REFER TO SHEET A0.1 FOR FLAME SPREAD REQUIREMENTS.*
B. *REFER TO SHEET A3.3.1 FOR INTERIOR FINISH AND FLOOR TRANSITION SCHEDULES.*
C. *RUGS ARE SECURED WITH A DOUBLE SIDED STICKY MESH, TACTILES, AND OPTITAPE TO SECURE TRANSITION EDGING TO THE FLOOR. TRANSITION EDGING TO BE SECURED ON THE OUTSIDE PERIMETER OF THE CARPET TILE BORDER.*
D. *AREA RUG TO BE INSTALLED ASHLAR. TRIM EXCESS PIECES AS NECESSARY.*
E. *REFER TO INTERIOR ELEVATIONS, FLOOR PLANS, FINISH PLANS AND REFLECTED CEILING PLANS - DRAWINGS NOTES SUPERCEDE SCHEDULES.*
F. *ALL WALLS TO BE PAINTED PT-500, U.N.O.*
G. *PAINT FACES AND BOTTOMS OF GYPSUM BOARD BULKHEADS TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE*
H. *PAINT ALL DOORS AND FRAMES TO MATCH ADJACENT WALL COLOR IN SATIN FINISH, U.N.O., SANDING WD DOORS BETWEEN COATS.*
J. *PAINT INTERIOR DIFFUSERS, REGISTERS, AND LOUVERS TO MATCH ADJACENT SURFACE.*
K. *ROLLER SHADE FABRIC SELECTION VARIES BY REGION AND CLIMATE - ALL CONFERENCE ROOMS TO RECEIVE DOUBLE ROLLER SHADE WT-7*
L. *RESTROOM WALL TILE FINISH EXTENTS: PROVIDE ONLY IF REQUIRED BY JURISDICTIONS HAVING AUTHORITY - CONTINUOUS AT ALL WALLS REGARDLESS OF CODE REQUIREMENTS - REFER TO INTERIOR ELEVATIONS*
M. *WINDOW SHADE ENCLOSURES AND POCKETS: WINDOW SHADE HOUSINGS AND POCKETS INTEGRATED WITH CEILING GRID CEILING SYSTEMS* - SHALL BE PROVIDED BY THE CEILING GRID MANUFACTURER AND INSTALLED BY THE CEILING SYSTEM VENDOR.
FINISH SHALL MATCH THE CEILING GRID SURFACE-MOUNTED WINDOW SHADE HOUSING - SHALL BE PROVIDED BY THE WINDOW SHADE VENDOR.
FINISH SHALL MATCH THE STOREFRONT GLAZING SYSTEM FINISH
N. FINISH: DARK ACCENT PAINT(S) REQUIRE LEVEL 5 FINISH
O. G.C. TO TERMINATE FLOOR TILE AT TOE KICK OF MILLWORK. G.C. TO LEAVE OUT LAST TILE ALONG MILLWORK AND INSTALL IT AFTER MILLWORK IS INSTALLED.

FINISH PLAN KEYNOTES

1	MANUAL TRANSACTION MILLWORK FURNISHED AND INSTALLED BY FURNITURE VENDOR.
2	FRP FINISH EXTENTS: LADDER AREA: ALL WALL SURFACES BEHIND LADDER WITHIN 12" EACH SIDE OF LADDER, SIDE WALLS WITHIN 12" OF LADDER- CONT. FOR FULL HEIGHT OF ALL WALLS TO UNDERSIDE OF SCUTTLE FRAMING FINISH. FLOOR SINK AREA: SPLASH AREA AT EACH WALL SURFACE CONTACTING THE SINK FROM THE TOP OF THE SINK TO THE UNDERSIDE OF THE WATER HEATER SHELF ABOVE. REFER TO INTERIOR ELEVATIONS.
3	3/4" X 4'-0" X 8'-0" HIGH FIRE-RETARDANT PLYWOOD ON GYP. BOARD IN DATA ROOM (ALL WALLS) - PAINT PT-500 (RATED LABEL TO REMAIN VISIBLE).
4	LAST ROW OF TILE AT TELLER LINE TO BE LEFT OUT UNTIL TELLER LINE IS INSTALLED. FINISH UP TO TELLER LINE AFTER INSTALLATION.
5	FLOOR BOX - REFER TO FLOOR PLAN FOR LOCATIONS AND ELECTRICAL DRAWINGS.
6	PAINT EXPOSED STEEL COLUMN PT-500.
7	PAINT ALL WALLS INSIDE NICHE FOR DIGITAL DISPLAY CSG PT-104.
8	REFER TO SHEET A5.2.1 FOR EXTERIOR DOOR THRESHOLD DETAILS.

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STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 15, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LaSURS
LICENSE NUMBER: 007504

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PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

FINISH PLAN

SHEET NUMBER

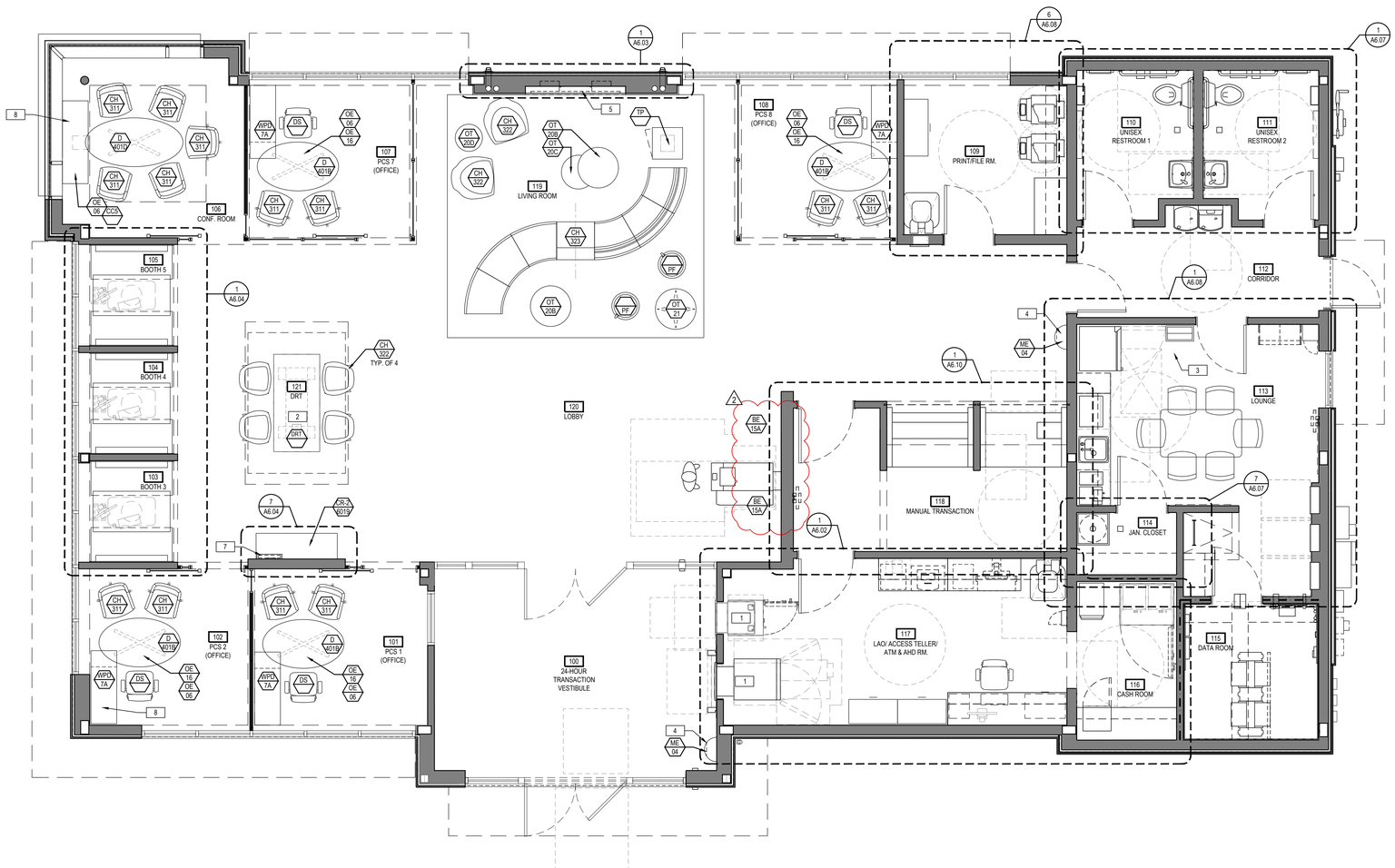
A1.1.3

GENERAL FURNITURE & EQUIPMENT NOTES

A	GC TO COORDINATE IN FIELD BCM OFFICE LOCATION W/ BRANCH MANAGEMENT FOR LOCATION OF HOLD-UP BUTTON.
B	WALL MOUNTED DISPLAYS/ SOLUTIONS: REFER TO A6 SERIES SHEETS FOR INTERIOR ELEVATIONS & A3.4.5, A6.03 & A6.04 FOR MOUNTING HEIGHTS & NICHE CONSTRUCTION DETAILS (WHERE SHOWN).

FURNITURE & EQUIPMENT KEYNOTES

1	ALL FLOOR-MOUNTED BANK EQUIPMENT WITH 24/7 ACCESS REQUIRES FLOOR SLAB ANCHORS - REFER TO EQUIPMENT INSTALLATION MANUAL
2	DRTs ARE NOT REQUIRED TO BE CAPTURED BY A SECURITY CAMERA.
3	TRASH RECEPTABLE BY BRANCH PLANNING
4	TRASH RECEPTACLE BY G.C.
5	SOLUTION #3 (75") - WALL MOUNTED DISPLAY MONITOR; SEE GENERAL FURNITURE & EQUIPMENT NOTES.
6	NOT USED
7	SOLUTION #7 (32") - WALL MOUNTED DISPLAY MONITOR; SEE GENERAL FURNITURE & EQUIPMENT NOTES.
8	PROVIDE FINISHED BACK PANEL FOR NOTED FURNITURE



1 A1.1.4 FURNITURE & EQUIPMENT PLAN
1/4" = 1'-0"

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ARCHITECT OF RECORD
STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 18, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LaSURS
LICENSE NUMBER: 007504

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PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

FURNITURE & EQUIPMENT PLAN

SHEET NUMBER

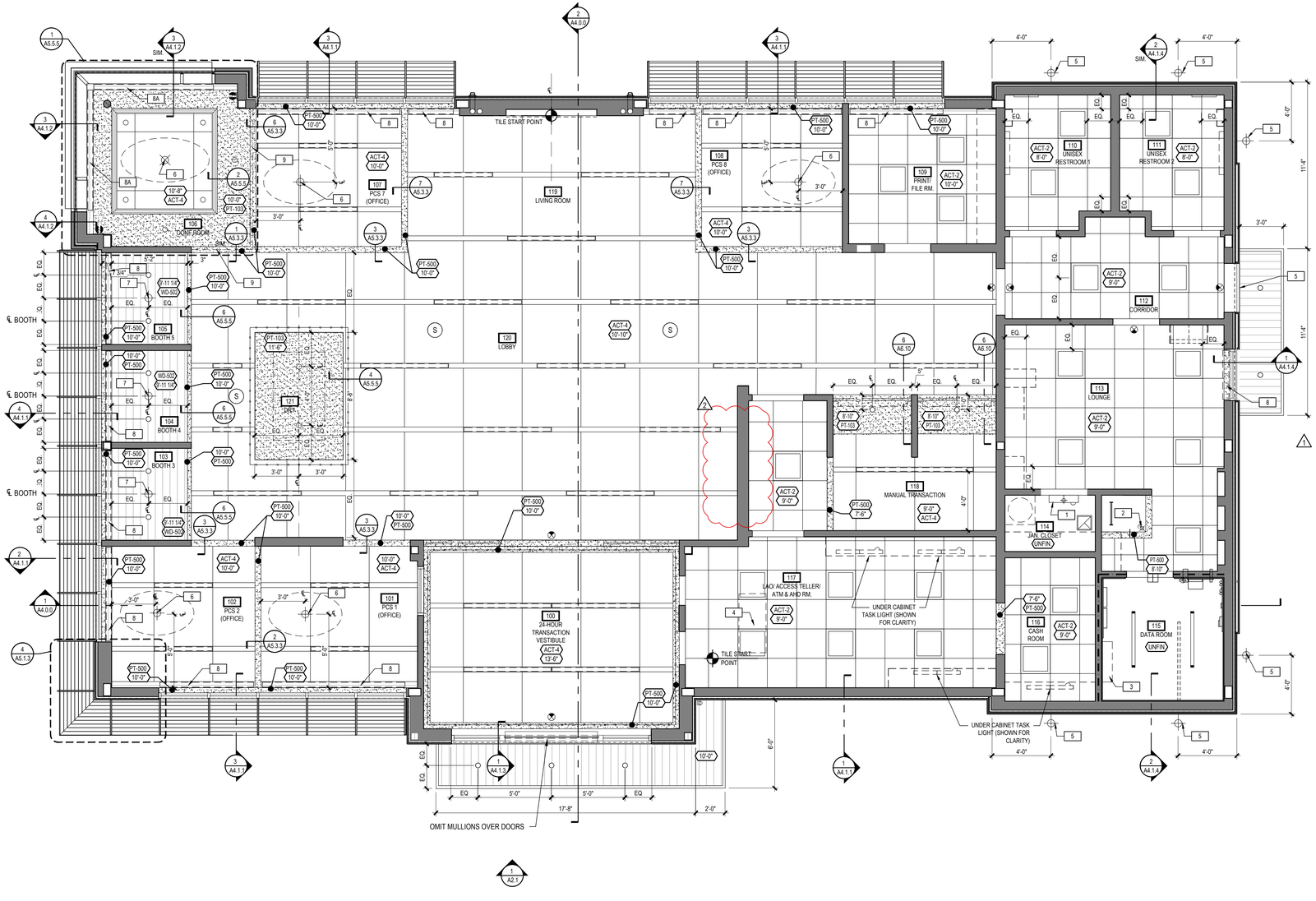
A1.1.4

GENERAL RCP NOTES

A. *ALL CEILING FIXTURES TO BE CENTERED ON CEILING TILE UNLESS SHOWN & NOTED OTHERWISE.*
B. *ACOUSTIC CEILING TILE TO BE CENTERED ON SPACE. UNLESS SHOWN & NOTED OTHERWISE.*
C. *ACOUSTIC CEILING TILE GRID; SEE SHEET A5.5.4 FOR DETAILS.*

RCP KEYNOTES

1	WALL LIGHT OVER DOOR - REFER TO ELECTRICAL DRAWINGS.
2	WALL LIGHT IN LADDER CHASE - REFER TO ELECTRICAL DRAWINGS.
3	WALL MOUNT HVAC UNIT - REFER TO MECHANICAL DRAWINGS.
4	VESTIBULE HVAC UNIT ABOVE CEILING - REFER TO MECHANICAL DRAWINGS.
5	EXTERIOR WALL MOUNTED LIGHT - REFER TO ELECTRICAL DRAWINGS AND SHEETS A2.1.0 AND A2.2.0 FOR LOCATION.
6	OFFICE/ CONFERENCE ROOM PENDANT TO BE CENTERED ON DESK/TABLE BELOW. VERIFY DIMENSIONS SHOWN ON PLANS W/ FURNITURE PLANS. COORDINATE WITH ARCHITECT IF LIGHT INTERFERES WITH CEILING GRID. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION. OFFICE: PENDANT, INSTALLED AT 82" A.F.F. CONFERENCE: PENDANT, INSTALLED AT 82" A.F.F.
7	BOOTH: PENDANT, INSTALLED AT 66" A.F.F. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION
8	WINDOW SHADE; SEE FINISH PLAN AND FINISH SCHEDULE FOR MORE INFORMATION
8A	WINDOW SHADE, SURFACE MOUNTED; SEE FINISH PLAN AND FINISH SCHEDULE FOR MORE INFORMATION
9	CENTER PAINT TRANSITION ABOVE PRIVACY WALL



RCP SYMBOLS LEGEND

- WALL WASHER: REFER TO ELEC DWGS FOR ADDL INFO
- RECESSED DOWNLIGHT: REFER TO ELEC DWGS FOR ADDL INFO
- DECORATIVE PENDANT: REFER TO ELEC DWGS FOR ADDL INFO
- WALL MOUNT LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO
- LAY-IN LINEAR LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO
- WALL MOUNTED ACCENT LIGHT FIXTURE: REFER TO ELEC DWGS FOR ADDL INFO
- WALL MOUNT LIGHT FIXTURE AT LADDER: REFER TO ELEC DWGS FOR ADDL INFO
- EXTERIOR SCONE LIGHT: REFER TO ELEC DWGS FOR ADDL INFO
- L-2 — 2' x 2' LAY-IN LIGHT FIXTURE: REFER TO ELEC DWG. FOR ADDL INFO
- SUPPLY AIR DIFFUSER: REFER TO MECH DWGS FOR ADDL INFO
- RETURN AIR GRILL: REFER TO MECH DWGS FOR ADDL INFO
- EXHAUST FAN: REFER TO MECH DWGS FOR ADDL INFO
- ILLUMINATED EXIT SIGN: REFER TO ELEC DWGS FOR ADDL INFO
- UNDER-CABINET TASK LIGHT: REFER TO ELEC DWGS FOR ADDL INFO
- S — CEILING MOUNTED SPEAKER: COORDINATE LOCATIONS W/ VENDOR
- LED ACCENT LIGHTING REFER TO ELEC DWG. FOR ADDL INFO
- 5/8" GYPSUM BOARD

1 A1.2.1 REFLECTED CEILING PLAN
1/4" = 1'-0"

N

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ROBERT BRUCE LASURS
June 15, 2021
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ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

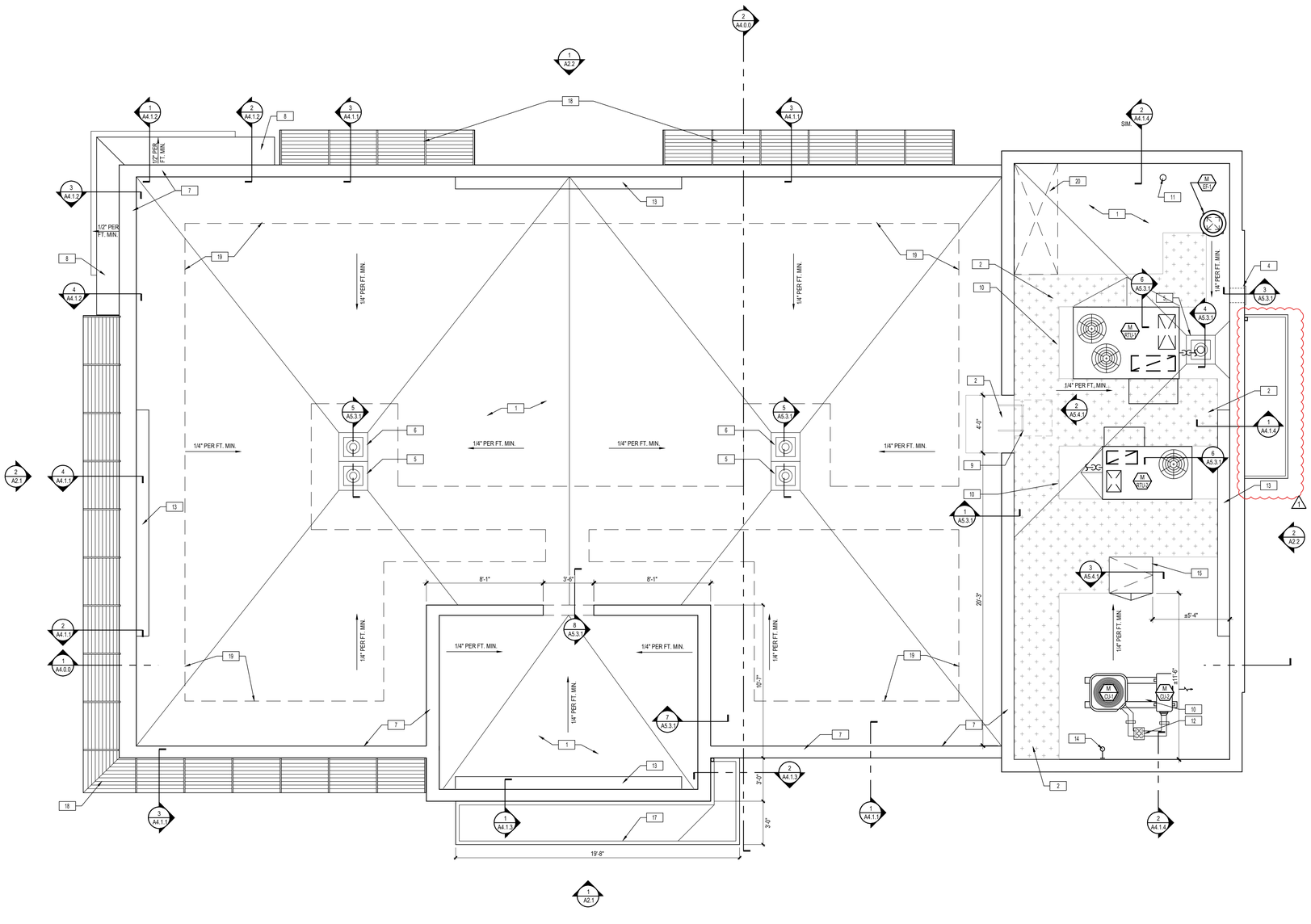
SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER

A1.2.1

P:\JP Morgan Chase\Lee's Summit, MO (Hwy 291 and SE Langford Rd)\JPM.27135.001\ARBPS_Drawings\A1 (2)_Hwy 291 and NE Langford Rd_JPM_Reflected Ceiling Plan.dwg
Saturday, April 24, 2021 9:29:56 AM



1 A1.3.1 ROOF PLAN
1/4" = 1'-0"

N

GENERAL ROOF NOTES

A	NOT ALL KEYNOTES MAY BE USED. REFER TO DRAWINGS.

ROOF PLAN NOTES

1	LOW-SLOPE ROOFING: THERMOPLASTIC SHEET MEMBRANE ROOFING INSTALLED OVER TAPERED INSULATION AS REQUIRED TO FORM RIDGES, VALLEYS, CRICKETS AND SADDLES AS REQUIRED TO ACHIEVE MINIMUM 1/4" PER FOOT PITCH OR MANUFACTURER;S MINIMUM PITCH REQUIREMENTS FOR THE APPLICATION, WHICHEVER IS GREATER- FORM SLOPES TO ELIMINATE THE POSSIBLITY OF PONDING; REFER TO WALL SECTIONS AND CONSTRUCTION TYPES.
2	ROOFING TRAFFIC PADS: SURFACE-ADHERED TEXTURED WALWAY MATERIAL PER ROOFING MANUFACTUER SPECIFICATIONS TO ALL MECHANICAL EQUIPMENT.
3	PIPE PENETRATION: REFER TO MECH. & PLUMBING DWG'S PRE-FABRICATED WATER-TIGHT SURFACE-ADHERED ROOFING PORTAL COMPATIBLE WITH ROOFING MATERIAL.
4	SCUPPER: WATER-TIGHT PRE-FINISHED ALUMINUM THROUGH-WALL DRAINAGE CHANNEL- REFER TO DETAILS AS NOTED PAINT TO MATCH ADJACENT WALL FINISH.
5	ROOF DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE- REFER TO PLUMBING FIXTURE SCHEDULE.
6	OVERFLOW DRAIN: METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE- REFER TO PLUMBING FIXTURE SCHEDULE.
7	PARAPET COPING SYSTEM: SHOP-FABRICATED PRE-FINISHED ALUMINUM- REFER TO WALL SECTIONS FOR DETAILS AND EXTERIOR ELEVATIONS FOR COLOR.
8	BAY ROOF: SEALED-JOINT ACM COPING / CLADDING SYSTEM OVER LOW-SLOPE ROOFING AND RAIN SCREEN WATERPROOFING SYSTEM; REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS.
9	ROOF LADDER: REFER TO DETAILS AS NOTED.
10	MECHANICAL EQUIPMENT: VENTILATION UNIT, PACKAGED ROOFTOP HEATING AND COOLING UNIT OR SPLIT-SYSTEM A/C UNIT MOUNTED TO SHOP-FAB. VIBRATION-ISOLATING RAIL OR INSULATED CURB UNIT-LAP FLASH WATER-TIGHT TO ROOFING MEMBRANE. REFER TO MECHANICAL DETAILS.
11	PLUMBING STACK VENT: SIZED AS REQD. WITH PRE-FABRICATED COMPATIBLE FLASHING BOOT ADHERED TO ROOF MEMBRANE- EXTEND VENT TO ALIGN WITH ADJACENT PARAPET COPING AND PROVIDE LATERAL BRACING AS REQD.
12	SURFACE-MOUNT MECHANICAL PIPING: REFER TO MECH. & PLUMBING DWG'S GAS AND REFRIGERANT PIPING SUPPORTED ON ROOFING BY B-LINE DURA-BLOK PRE-FAB. RUBBER-BASE GALVANIZED STEEL UNISTRUT PIPE SUPORTS AT 8'-0" o.c. MAX.
13	SURFACE-MOUNT SIGNAGE EQUIPMENT ENCLOSURE: WATER-TIGHT SHOP-FABRICATED METAL SIGNAGE ENCLOSURE BY SIGN VENDOR- SECURE TO BACKSIDE OF PARAPET WALL WITH MINIMAL PENETRATIONS OF ROOFING MEMBRANE- PROVIDE PERIMETER WATER-TIGHT SEALANT COMPATIBLE WITH ROOF MEMBRANE.
14	LANDSCAPE IRRIGATION SYSTEM WEATHER STATION: FASTENED TO BACKSIDE OF PARAPET USING MFR'S BRACKET- SEAL MEMBRANE PENETRATIONS W/100% SILICONE SEALANT.
15	SCUTTLE: PRE-FAB. INSULATED ROOF SCUTTLE WITH RETRACTABLE SAFET POST-FLASH WATER-TIGHT TO ROOFING MEMBRANE- PROVIDE CARABINER THROUGH LATCH. 30" X 42" ROOF ACCESS PANEL, G.C. TO COORDINATE LOCATION WITH JOIST LAYOUT.
16	(NOT USED) FURNACE VENT: CONCENTRIC OR SIDE-WALL PVC EXHAUST / COMBUSTION AIR INTAKE W/ ROOF MEMBRANE FLASHING BOOT - AT GAS-FIRED FURNACE LOCATIONS ONLY.
17	ENTRANCE CANOPY: SHOP FABRICATED PRE-FINISHED CUSTOM ALUMINUM CANOPY UNIT WITH INTEGRAL ELECTRICAL AND DRAINAGE SYSTEMS FASTENDED TO BUILDING STRUCTURE- REFER TO ELEVATIONS AND WALL SECTIONS.
18	SUN SHADE: BY STOREFRONT SYSTEM MANUFACTURER- REFER TO EXTERIOR ELEVATION NOTES.
19	FUTURE PHOTOVOLTAIC PANEL ARRAY AREA: FOR DETAILS OF FUTURE PV SYSTEM, REFER TO "ROOFTOP SOLAR PROGRAM STANDARD BUILDING PACKAGE" DRAWINGS POSTED TO OVP/SPOTLIGHT; ADDITIONAL STRUCTURAL LOADING IS 5PSF AT SLOPED ROOGS AND 10PSF AT FLAT ROOFS.
20	FUTURE PHOTOVOLTAIC EQUIPMENT AREA- REFER TO ELEC. RISER DIAGRAM.
21	ROOFTOP HOSE BIB. REFER TO PLUMBING DRAWINGS.

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DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

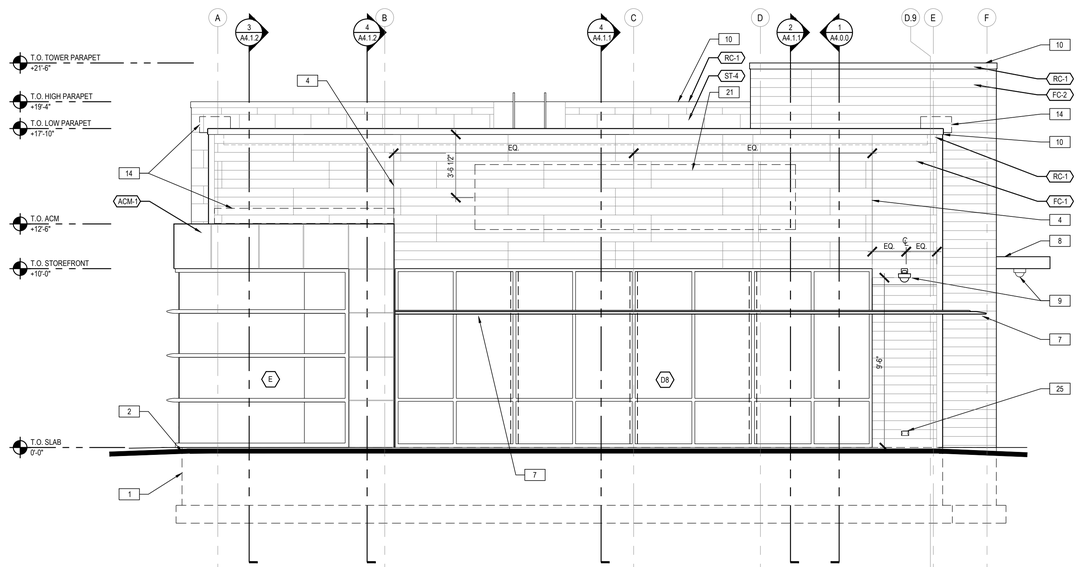
ROOF PLAN

SHEET NUMBER

A1.3.1

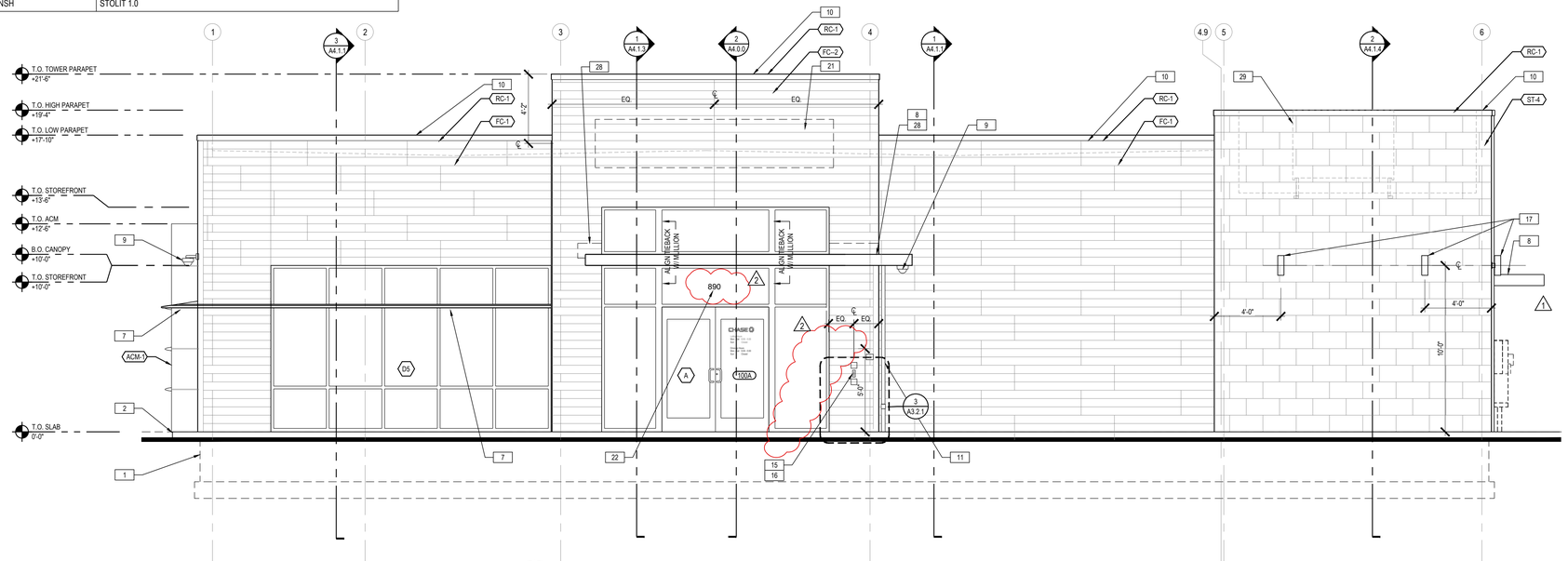
EXTERIOR FINISH MATERIALS

ST-4	**CAST STONE- ROCKFACE FIELD UNITS**	
	MANUFACTURER	CORONADO STONE PRODUCTS
	PRODUCT	MANUFACTURED STONE VENEER
	COLOR	CREAM
	FINISH	CHISELED LIMESTONE
	SIZE	24" WIDE x 12" HIGH x 1" THICK
	GROUT	1/4" NOMINAL JOINTS WITH FULL SMOOTH TOOLED NATURAL OFF-WHITE PORTLAND CEMENT GROUT
	NOTES	RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX. LENGTHS POSSIBLE WITH BUTTED AND LAPPED INSIDE AND OUTSIDE CORNERS UTILIZING MANUFACTURER'S FABRICATED RETURN CORNER PIECES- MITERED CORNERS ARE NOT ACCEPTABLE- PLACE CONTROL JOINTS AS RECOMMENDED BY THE MANUFACTURER- REFER TO WALL SECTIONS AND DETAILS
FC-1	**FIBER CEMENT PANEL- DARK**	
	MANUFACTURER	NICHIHA FIBER CEMENT
	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)
	COLOR	BARK
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.
FC-2	**FIBER CEMENT PANEL- LIGHT**	
	MANUFACTURER	NICHIHA FIBER CEMENT
	PRODUCT	VINTAGEWOOD AWP 3030 (AVAILABLE AS AWP 1818 FOR NON-PROTOTYPICAL PROJECTS)
	COLOR	ASH
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.
RC-1	**ROOF COPING**	
	MANUFACTURER	PETERSEN ALUMINUM / PAC-CLAD
	PRODUCT	PAC-CONTINUOUS
	COLOR	AGED BRONZE
ACM-1	**ALUMINUM COMPOSITE MATERIAL**	
	MANUFACTURER	ALCOA ARCHITECTURAL PRODUCTS
	PRODUCT	REYNOBOND
	COLOR	DURAGLOSS 5000 CHASE PROGRAM "CHASE SILVER"
EPT-1	**EXTERIOR PAINT**	
	MANUFACTURER	SHERWIN-WILLIAMS
	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS
	COLOR	SW 7045 INTELLECTUAL GRAY
	FINSH	SEMI-GLOSS
EPT-2	**EXTERIOR PAINT**	
	MANUFACTURER	SHERWIN-WILLIAMS
	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS
	COLOR	SW 7036 ACCESSIBLE BEIGE
	FINSH	SEMI-GLOSS
EPT-8	**EXTERIOR PAINT**	
	MANUFACTURER	SHERWIN-WILLIAMS
	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS
	COLOR	SW 6995 SUPERWHITE
	FINSH	SEMI-GLOSS
DFS-1	**DIRECT-APPLY FINISH SYSTEM (ALT. TO PAINTED STEEL DECK)**	
	MANUFACTURER	STO
	PRODUCT	STOQUIK GOLD
	COLOR	MATCH SHERWIN WILLIAMS SW 6995 SUPERWHITE
	FINSH	STOLIT 1.0



2 / A2.1 END ELEVATION

1/4" = 1'-0"



1 / A2.1 MAIN ENTRY ELEVATION

1/4" = 1'-0"

GENERAL EXTERIOR NOTES

A	G.C. TO VERIFY EXTERIOR COLOR & MATERIAL LOCATIONS AS SHOWN ON ELEVATION DRAWINGS WITH CHASE DESIGNER & APPROVED BRANDING PACKAGE PRIOR TO PURCHASE & INSTALLATION.

ELEVATION NOTES

1	*CONCRETE FOOTINGS / FOUNDATIONS: REFER TO STRUCTURAL DWGS.*
2	*CONCRETE CURB AND ISLANDS: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN - SEE CIVIL DWGS FOR ADD'T INFO.*
3	*EMERGENCY ACCESS KEY BOX: NOT REQUIRED*
4	*CONTROL / EXPANSION JOINT: VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH MASONRY VENEER - MATCH SEALANT COLOR TO VENEER COLOR*
5	*LANDSCAPE IRRIGATION SYSTEM: CONTROLLER, WIRELESS NETWORK CONNECTOR,I AND DEDICATED WP POWER OUTLET. REFER TO SITE PLAN AND ELECTRICAL DRAWINGS*
6	*LIGHTING TIMER SYSTEM PHOTO SENSOR: REFER TO ELECTRICAL DRAWINGS*
7	*SUN SHADE: GLAZING SYSTEM MANUFACTUER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH. BASIS OF DESIGN IS KAWNEER VERSOLEIL 30" WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES.*
8	*ENTRANCE CANOPY: SHOP FABRICATED SITE-ASSEMBLED PRE-FINISHED BLACK CUSTOM ALUMINUM CANOPY UNIT WITH PREPPED ELECTRICAL OPENINGS AND INTEGRAL DRAINAGE SYSTEM FASTENDED TO BUILDING STRUCTURE- MAPES ARCHITECTURAL CANOPIES SUPER LUMIDECK WITH FLAT SOFFIT AND 12" FASCIA, OR APPROVED EQUAL- REFER TO ROOF PLAN AND WALL SECTIONS- INSTALLED BY G.C.*
9	*SECURITY CAMERA: PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS.*
10	*COPING: REFER TO EXTERIOR FINISH ON THIS SHEET*
11	*SMALL CANOPY DOWNSPOUT / OVERFLOW: 3" DIAM. ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO PLUMBING DWGS AND SITE PLAN.*
12	*SCUPPER: PAINT TO MATCH ADJACENT EXTERIOR FINISHES. REFER TO ROOF PLAN.*
13	*ROOF OVERFLOW DOWNSPOUT NOZZLE: REFER TO PLUMBING DRAWINGS AND PLUMBING FIXTURE SCHEDULE*
14	*METAL FLASHING AND COUNTERFLASHING CONCEALED BEHIND WALL FINISH AND FINISH OF EXPOSED FLASHING TO MATCH ADJACENT ROOFING/COPING*
15	*AUTOMATIC DOOR OPERATOR BUTTON RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT .*
16	*KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT .*
17	*SURFACE-MOUNT DECORATIVE LIGHT FIXTURE: REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS*
18	*SURFACE-MOUNT EMERGENCY LIGHT FIXTURE: TO BE PROVIDED ONLY WHEN DOOR BELOW IS A REQUIRED OR MARKED EXIT - REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE*
19	*BOLLARD: CONCRETE-FILLED STEEL PIPE EMBEDDED IN CONCRETE CURB- WITH PLASTIC COVER- REFER TO SITE PLAN, DRIVE-UP CANOPY PLAN AND DETAILS- OMIT AT POSITIONS NOT ADJACENT TO VEHICULAR LANE (LANDSCAPE, WALK, ETC.)*
20	*BANK EQUIPMENT: FURNISHED AND INSTALLED BY BANK EQUIPMENT VENDOR- COORD. WALL OPENINGS AND ELECTRICAL / DATA REQUIREMENTS WITH OWNER-FURNISHED EQUIPMENT SHOP DRAWINGS AND PRODUCT DATA*
21	*SIGNAGE LOCATION: SIGNAGE BY OWNER'S SIGN VENDOR- N.I.C.- PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION. CONFIRM FINAL LOCATION WITH SIGN VENDOR.*
22	*BUILDING ADDRESS NUMBER: WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE*
23	*GAS METER: REFER TO SITE PLAN AND PLUMBING DRAWINGS*
24	*FIRE DEPARTMENT CONNECTION: FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*
25	*ELECTRICAL OUTLET: SET FLUSH WITH FACE OF MASONRY VENEER- PROVIDE METAL COVER COMPLIANT WITH N.E.C.*
26	*UTILITY EQUIPMENT: PROVIDE AND INSTALL UTILITY TERMINATION CABINETS AND METERS AS REQUIRED- COORD. WITH OWNER'S SECURITY AND TELE-DATA SERVICES- COORD. CABINET AND METER LOCATIONS WITH LOCAL JURISDICTION- REFER TO SITE PLAN*
27	*TELE / DATA / UTILITY CONNECTIONS: COORDINATE FINAL LOCATION WITH CIVIL ENGINEER*
28	*FLASHING AT PREFAB CANOPY: PRE-FINISHED ALUMINUM FLASHING TO SPAN GAP BETWEEN PREFAB CANOPY AND BUILDING- REFER TO WALL SECTIONS AND DETAILS- VERIFY FINAL FLASHING LENGTH AND CONFIGURATION WITH APPROVED CANOPY SHOP DWGS*
29	*MECHANICAL EQUIPMENT: VENTILATION UNIT. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.*
30	*SIAMESE CONNECTION: FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*
31	*FIRE ALARM SYSTEM BELL AND STROBE: WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*

CHASE

JP MORGAN CHASE, N.A.
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www.core-states.com
COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
June 25, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

A2.1.0

EXTERIOR FINISH MATERIALS

ST-4	**CAST STONE- ROCKFACE FIELD UNITS**	
	MANUFACTURER	CORONADO STONE PRODUCTS
	PRODUCT	MANUFACTURED STONE VENEER
	COLOR	CREAM
	FINISH	CHISELED LIMESTONE
	SIZE	24" WIDE x 12" HIGH x 1" THICK
	GROUT	1/4" NOMINAL JOINTS WITH FULL SMOOTH TOOLED NATURAL OFF-WHITE PORTLAND CEMENT GROUT
	NOTES	RUNNING BOND MANUFACTURED THIN STONE FIELD-CUT TO MAX. LENGTHS POSSIBLE WITH BUTTED AND LAPPED INSIDE AND OUTSIDE CORNERS UTILIZING MANUFACTURER'S FABRICATED RETURN CORNER PIECES- MITERED CORNERS ARE NOT ACCEPTABLE- PLACE CONTROL JOINTS AS RECOMMENDED BY THE MANUFACTURER- REFER TO WALL SECTIONS AND DETAILS
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	MANUFACTURER	NICHIHA FIBER CEMENT
	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)
	COLOR	BARK
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.
FC-2	**FIBER CEMENT PANEL- LIGHT**	
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	MANUFACTURER	PETERSEN ALUMINUM / PAC-CLAD
	PRODUCT	PAC-CONTINUOUS
	COLOR	AGED BRONZE
ACM-1	**ALUMINUM COMPOSITE MATERIAL**	
	MANUFACTURER	ALCOA ARCHITECTURAL PRODUCTS
	PRODUCT	REYNOBOND
	COLOR	DURAGLOSS 5000 CHASE PROGRAM "CHASE SILVER"
EPT-1	**EXTERIOR PAINT**	
	MANUFACTURER	SHERWIN-WILLIAMS
	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS
	COLOR	SW 7045 INTELLECTUAL GRAY
	FINSH	SEMI-GLOSS
EPT-2	**EXTERIOR PAINT**	
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	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS
	COLOR	SW 7036 ACCESSIBLE BEIGE
	FINSH	SEMI-GLOSS
EPT-8	**EXTERIOR PAINT**	
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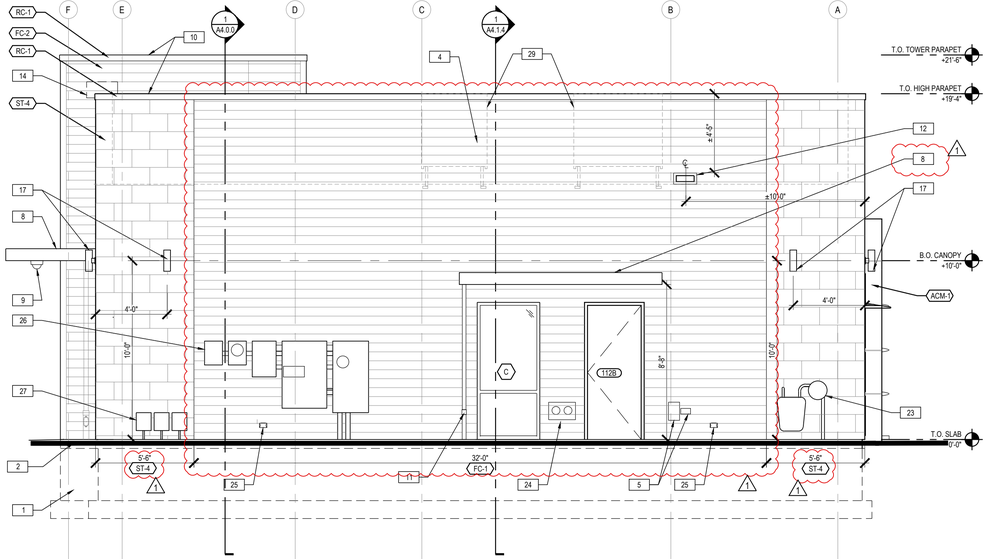
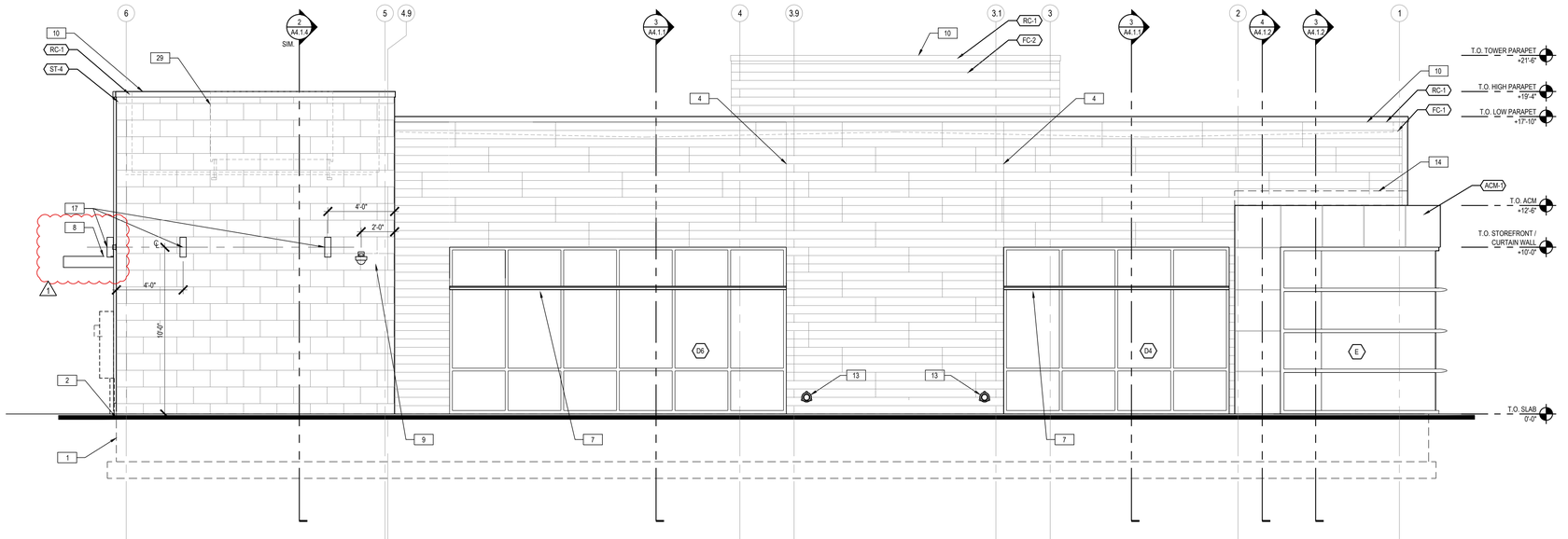
	COLOR	SW 6995 SUPERWHITE
	FINSH	SEMI-GLOSS
DFS-1	**DIRECT-APPLY FINISH SYSTEM (ALT. TO PAINTED STEEL DECK)**	
	MANUFACTURER	STO
	PRODUCT	STOQUIK GOLD
	COLOR	MATCH SHERWIN WILLIAMS SW 6995 SUPERWHITE
	FINSH	STOLIT 1.0



2 / A2.2 B.O.H. END ELEVATION

1/4" = 1'-0"



1 / A2.2 REAR ELEVATION

1/4" = 1'-0"

GENERAL EXTERIOR NOTES

A	G.C. TO VERIFY EXTERIOR COLOR & MATERIAL LOCATIONS AS SHOWN ON ELEVATION DRAWINGS WITH CHASE DESIGNER & APPROVED BRANDING PACKAGE PRIOR TO PURCHASE & INSTALLATION.

ELEVATION NOTES

1	*CONCRETE FOOTINGS / FOUNDATIONS:* *REFER TO STRUCTURAL DWGS.*
2	*CONCRETE CURB AND ISLANDS:* *REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN - SEE CIVIL DWGS FOR ADD'T INFO.*
3	*EMERGENCY ACCESS KEY BOX:* *WHERE REQUIRED BY LOCAL CODE ONLY- RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE FLUSH WITH ADJACENT WALL FINISH- VERIFY FINAL LOCATION WITH AUTHORITIES HAVING JURISDICTION*
4	*CONTROL / EXPANSION JOINT:* *VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH MASONRY VENEER - MATCH SEALANT COLOR TO VENEER COLOR*
5	*LANDSCAPE IRRIGATION SYSTEM:* *CONTROLLER. WIRELESS NETWORK CONNECTOR,I AND DEDICATED WP POWER OUTLET. REFER TO SITE PLAN AND ELECTRICAL DRAWINGS*
6	*LIGHTING TIMER SYSTEM PHOTO SENSOR:* *REFER TO ELECTRICAL DRAWINGS*
7	*SUN SHADE:* *GLAZING SYSTEM MANUFACTUER'S STANDARD INTEGRAL SHADE ACCESSORY- REFER TO WALL SECTIONS; MATCH GLAZING SYSTEM FINISH. BASIS OF DESIGN IS KAWNEER VERSOLEIL 30" WEDGE WITH ANGULAR FASCIA AND CIRCULAR BLADES.*
8	*ENTRANCE CANOPY:* *SHOP FABRICATED SITE-ASSEMBLED PRE-FINISHED BLACK CUSTOM ALUMINUM CANOPY UNIT WITH PREPPED ELECTRICAL OPENINGS AND INTEGRAL DRAINAGE SYSTEM FASTENDED TO BUILDING STRUCTURE- MAPES ARCHITECTURAL CANOPIES SUPER LUMIDECK WITH FLAT SOFFIT AND 12" FASCIA, OR APPROVED EQUAL- REFER TO ROOF PLAN AND WALL SECTIONS- INSTALLED BY G.C.*
9	*SECURITY CAMERA:* *PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS.*
10	*COPING:* *REFER TO EXTERIOR FINISH ON THIS SHEET*
11	*SMALL CANOPY DOWNSPOUT / OVERFLOW:* *3" DIAM. ALUMINUM DOWNSPOUT PRE-FIN. TO MATCH THE CANOPY; CONNECT TO CAST IRON DRAIN HUB AT GRADE AND EXTEND SUBSURFACE TO SITE DRAINAGE SYSTEM- REFER TO PLUMBING DWGS AND SITE PLAN.*
12	*SCUPPER:* *PAINT TO MATCH ADJACENT EXTERIOR FINISHES. REFER TO ROOF PLAN.*
13	*ROOF OVERFLOW DOWNSPOUT NOZZLE:* *REFER TO PLUMBING DRAWINGS AND PLUMBING FIXTURE SCHEDULE*
14	*METAL FLASHING AND COUNTERFLASHING CONCEALED BEHIND WALL FINISH AND FINISH OF EXPOSED FLASHING TO MATCH ADJACENT ROOFING/COPING*
15	*AUTOMATIC DOOR OPERATOR BUTTON RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT .*
16	*KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT .*
17	*SURFACE-MOUNT DECORATIVE LIGHT FIXTURE:* *REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS*
18	*SURFACE-MOUNT EMERGENCY LIGHT FIXTURE:* *TO BE PROVIDED ONLY WHEN DOOR BELOW IS A REQUIRED OR MARKED EXIT - REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE*
19	*BOLLARD:* *CONCRETE-FILLED STEEL PIPE EMBEDDED IN CONCRETE CURB- WITH PLASTIC COVER- REFER TO SITE PLAN, DRIVE-UP CANOPY PLAN AND DETAILS- OMIT AT POSITIONS NOT ADJACENT TO VEHICULAR LANE (LANDSCAPE, WALK, ETC.)*
20	*BANK EQUIPMENT:* *FURNISHED AND INSTALLED BY BANK EQUIPMENT VENDOR- COORD. WALL OPENINGS AND ELECTRICAL / DATA REQUIREMENTS WITH OWNER-FURNISHED EQUIPMENT SHOP DRAWINGS AND PRODUCT DATA*
21	*SIGNAGE LOCATION:* *SIGNAGE BY OWNER'S SIGN VENDOR- N.I.C.- PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION. CONFIRM FINAL LOCATION WITH SIGN VENDOR.*
22	*BUILDING ADDRESS NUMBER:* *WHITE VINYL NUMBERS WITH 1/2" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE*
23	*GAS METER:* *REFER TO SITE PLAN AND PLUMBING DRAWINGS*
24	*FIRE DEPARTMENT CONNECTION:* *FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*
25	*ELECTRICAL OUTLET:* *SET FLUSH WITH FACE OF MASONRY VENEER- PROVIDE METAL COVER COMPLIANT WITH N.E.C.*
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27	*TELE / DATA / UTILITY CONNECTIONS:* *COORDINATE FINAL LOCATION WITH CIVIL ENGINEER*
28	*FLASHING AT PREFAB CANOPY:* *PRE-FINISHED ALUMINUM FLASHING TO SPAN GAP BETWEEN PREFAB CANOPY AND BUILDING- REFER TO WALL SECTIONS AND DETAILS- VERIFY FINAL FLASHING LENGTH AND CONFIGURATION WITH APPROVED CANOPY SHOP DWGS*
29	*MECHANICAL EQUIPMENT:* *VENTILATION UNIT. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.*
30	*SIAMESE CONNECTION:* *FIRE SUPPRESSION SYSTEM EXTERIOR CONNECTION WHERE REQD. BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*
31	*FIRE ALARM SYSTEM BELL AND STROBE:* *WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION*

CHASE

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
April 21, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

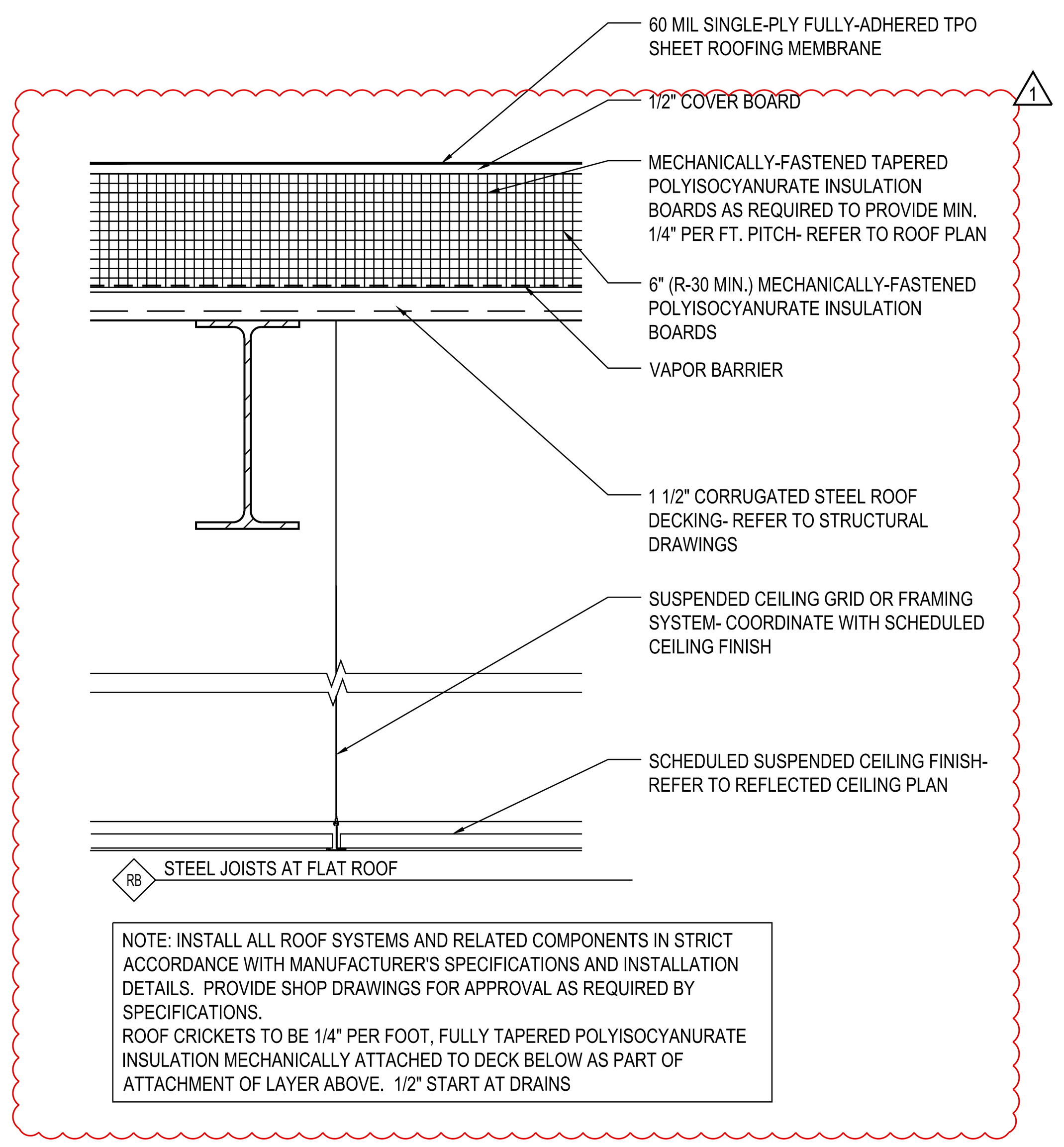
SHEET TITLE

EXTERIOR ELEVATIONS

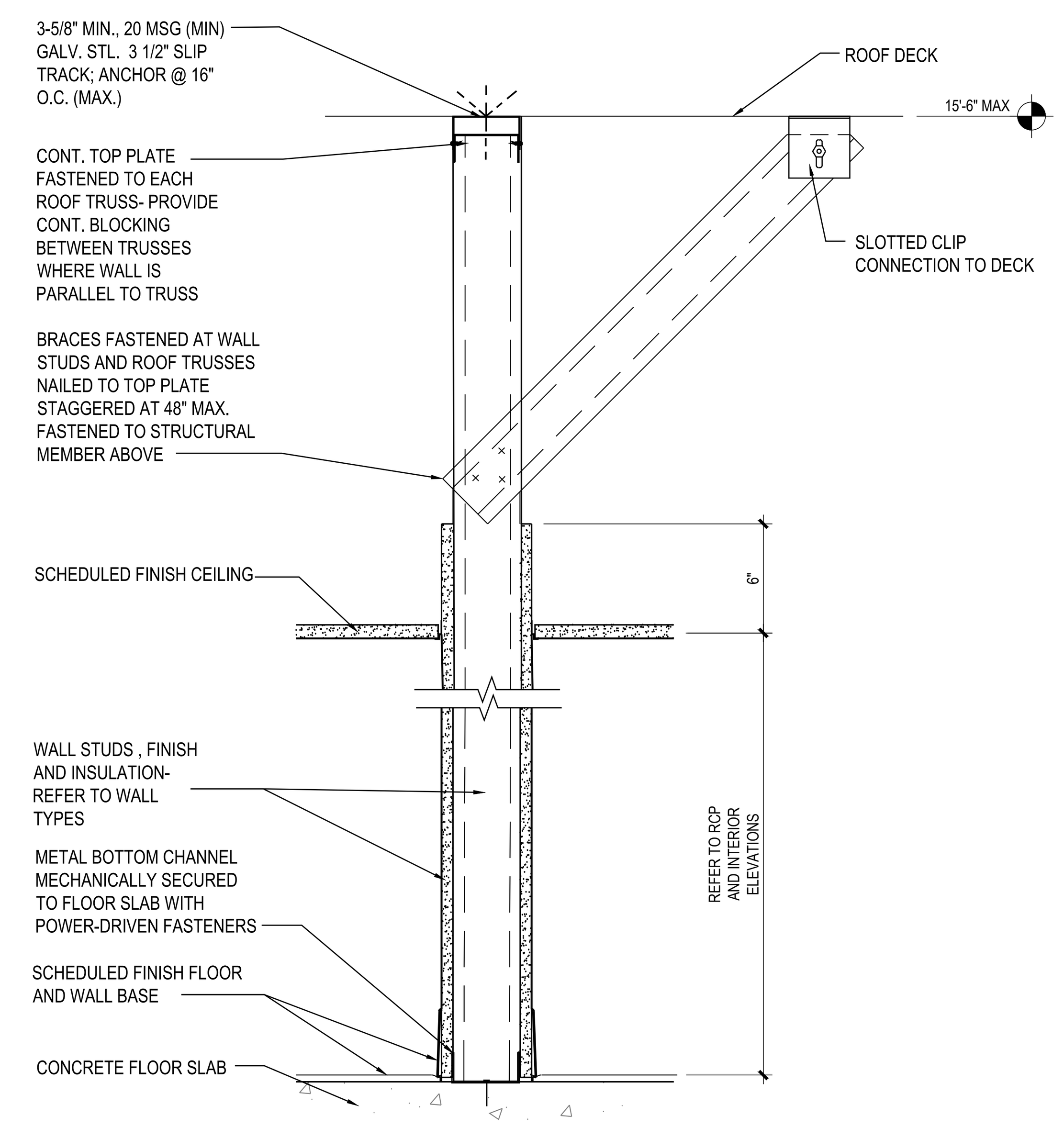
SHEET NUMBER

A2.2.0

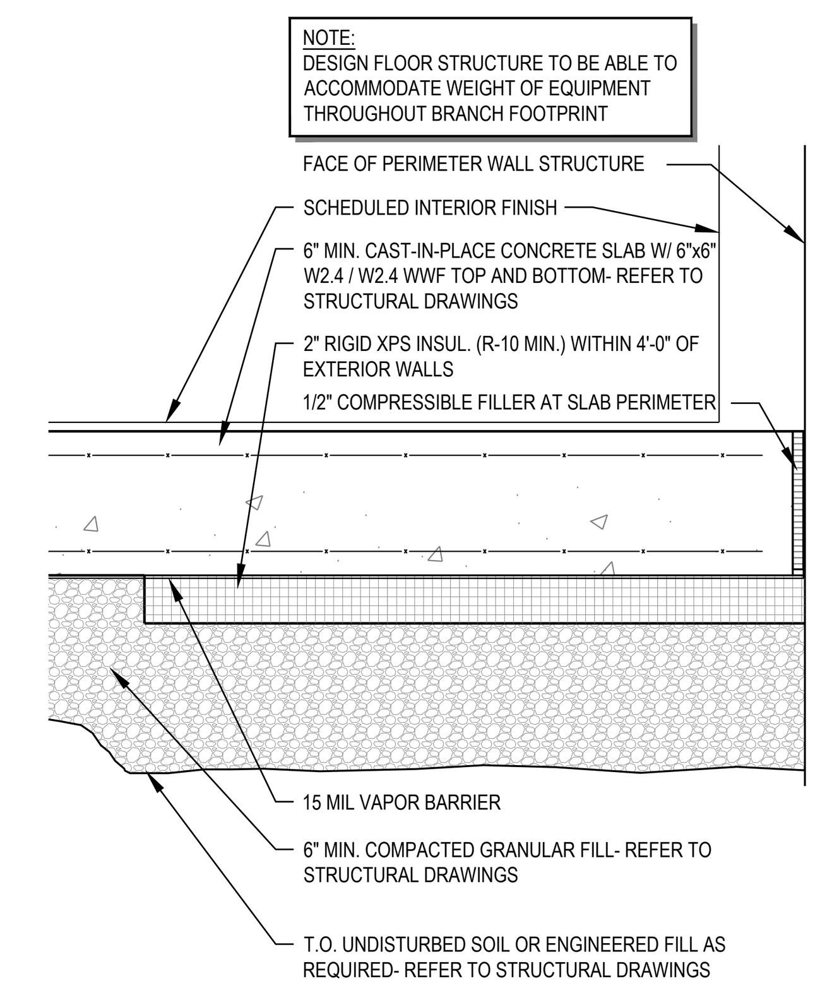
NOTE:
ALL WOOD BLOCKING AND PLYWOOD SHALL BE FIRE-TREATED.



4 A3.1.0 ROOF TYPE
1 1/2" = 1'-0"



3 A3.1.0 INTERIOR PARTITION BRACING
1 1/2" = 1'-0"

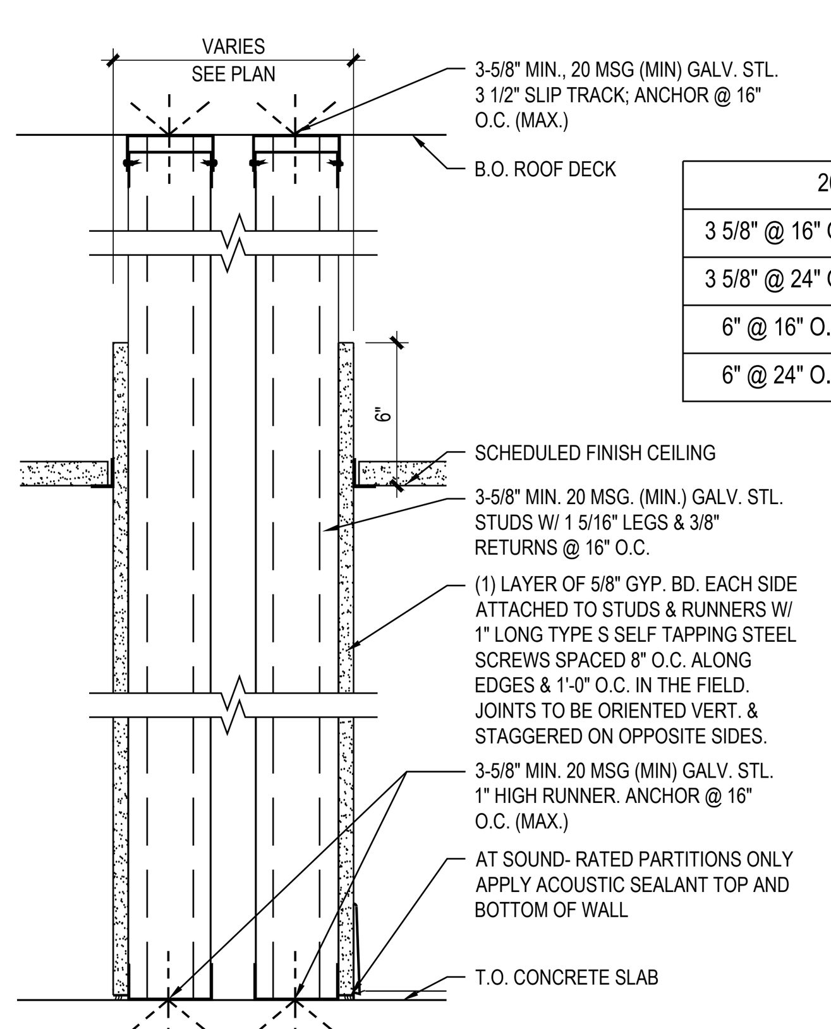


FA — INSULATED INTERIOR CONCRETE SLAB ON GRADE
FIRE RATING NOT REQUIRED

FA1 — UNINSULATED INTERIOR CONCRETE SLAB ON GRADE
SAME AS 'FA' EXCEPT OMIT INSULATION

FA2 — EXTERIOR CONCRETE SLAB ON GRADE
SAME AS 'FA'1 EXCEPT 5" SLAB THICKNESS AND SINGLE LAYER OF 6"x6" W1.6 / W1.6 WWF AT TOP OF SLAB. REFER TO CIVIL DWGS.

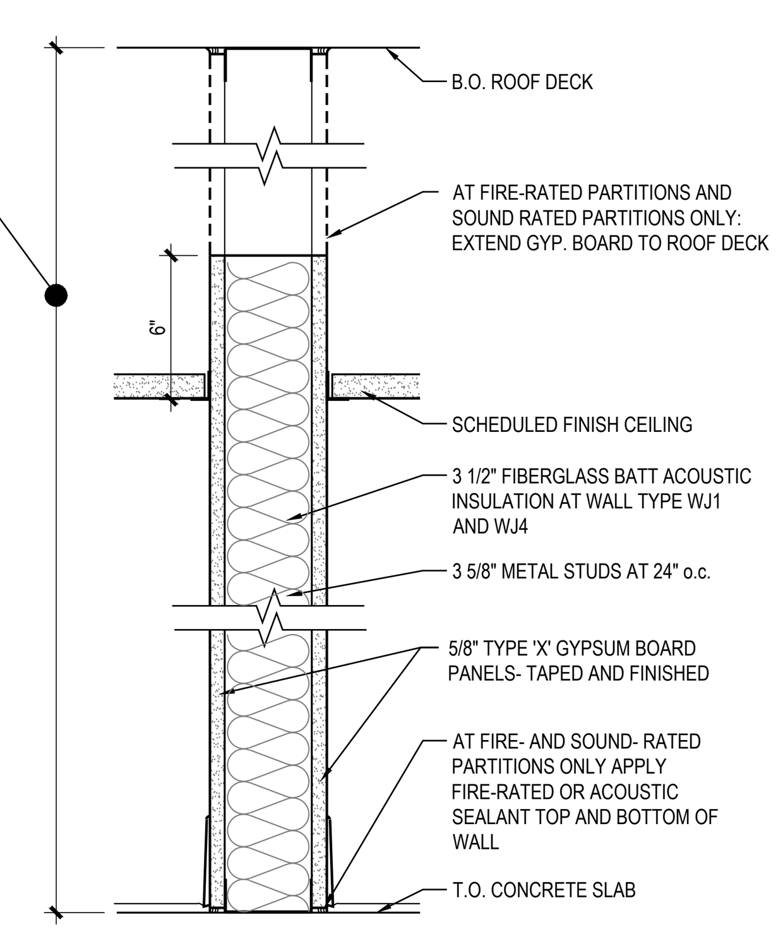
2 A3.1.0 FLOOR TYPES
1 1/2" = 1'-0"



20GA:	
3 5/8" @ 16" O.C.	17'-6"
3 5/8" @ 24" O.C.	15'-4"
6" @ 16" O.C.	26'-0"
6" @ 24" O.C.	22'-8"

WS — INTERIOR DOUBLE PARTITION
NO FIRE RATING U.N.O.

WS1 — INTERIOR DOUBLE PARTITION - UNFINISHED ONE SIDE
NO FIRE RATING U.N.O.



WJ — TYPICAL INTERIOR PARTITION
NO FIRE RATING U.N.O.

WJ1 — INTERIOR SOUND-RATED PARTITION
SAME AS WJ1 EXCEPT ADD SOUND ISOLATION

WJ2 — INTERIOR SINGLE-SIDE PARTITION
SAME AS 'WJ' EXCEPT OMIT GYP. BD. ONE SIDE

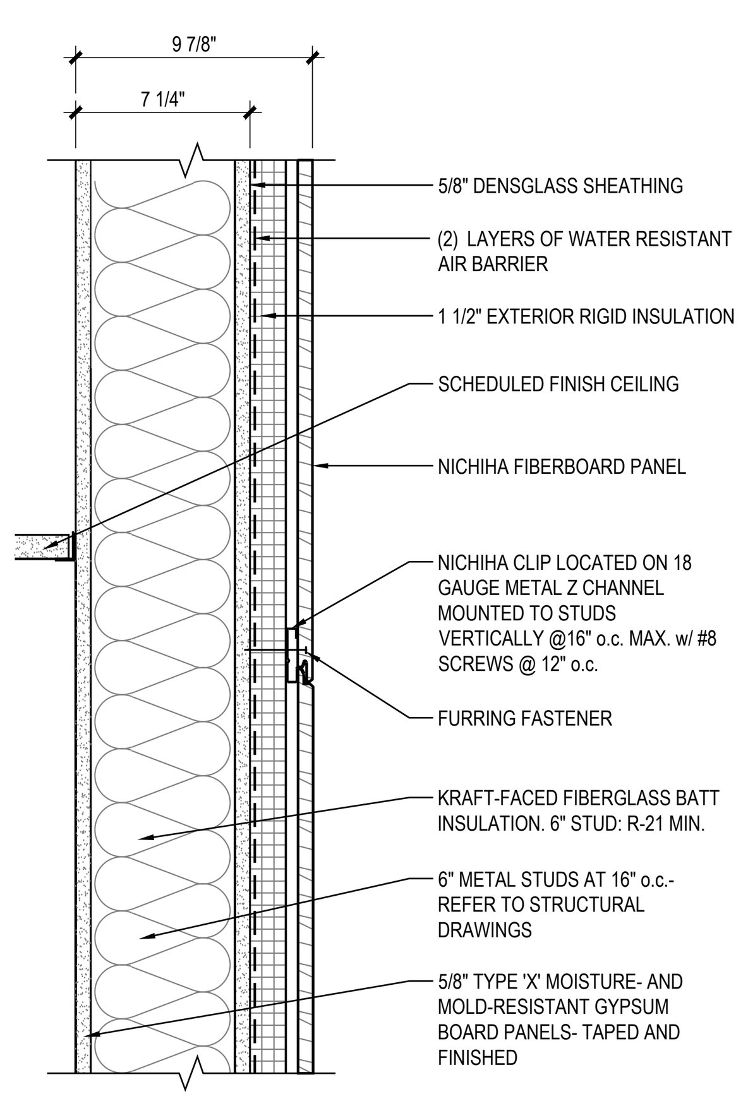
WJ3 — 6" NOMINAL INTERIOR PARTITION
SAME AS 'WJ' EXCEPT SUBSTITUTE 6" METAL STUDS

WJ4 — 6" NOMINAL INTERIOR SOUND-RATED PARTITION
SAME AS 'WJ1' EXCEPT SUBSTITUTE 6" METAL STUDS

WJ5 — SPANDREL INFILL
SAME AS 'WJ' EXCEPT SUBSTITUTE 1/2" DENSGLASS SHEATHING I.L.O. GYP. BD. ONE SIDE.

WJ6 — INTERIOR PARTITION @ 24 HOUR VESTIBULE
SAME AS 'WJ' EXCEPT SECURITY MESH ON 24 HOUR VESTIBULE SIDE OF WALL FRAMING EXTENDED TO UNDERSIDE OF ROOF DECK (1)

WJ7 — 1-HOUR FIRE-RATED PARTITION
CONSTRUCTED TO COMPLY WITH U.L. TYPE 419



WN — EXTERIOR FRAME WALL WITH ARCHITECTURAL PANEL
VERIFY FIRE RATING REQUIRED

WN1 — SAME AS "WN" BUT WITH BOTH A 3 5/8" AND 6" STUD FOR FRAMING
SEE STRUCTURAL

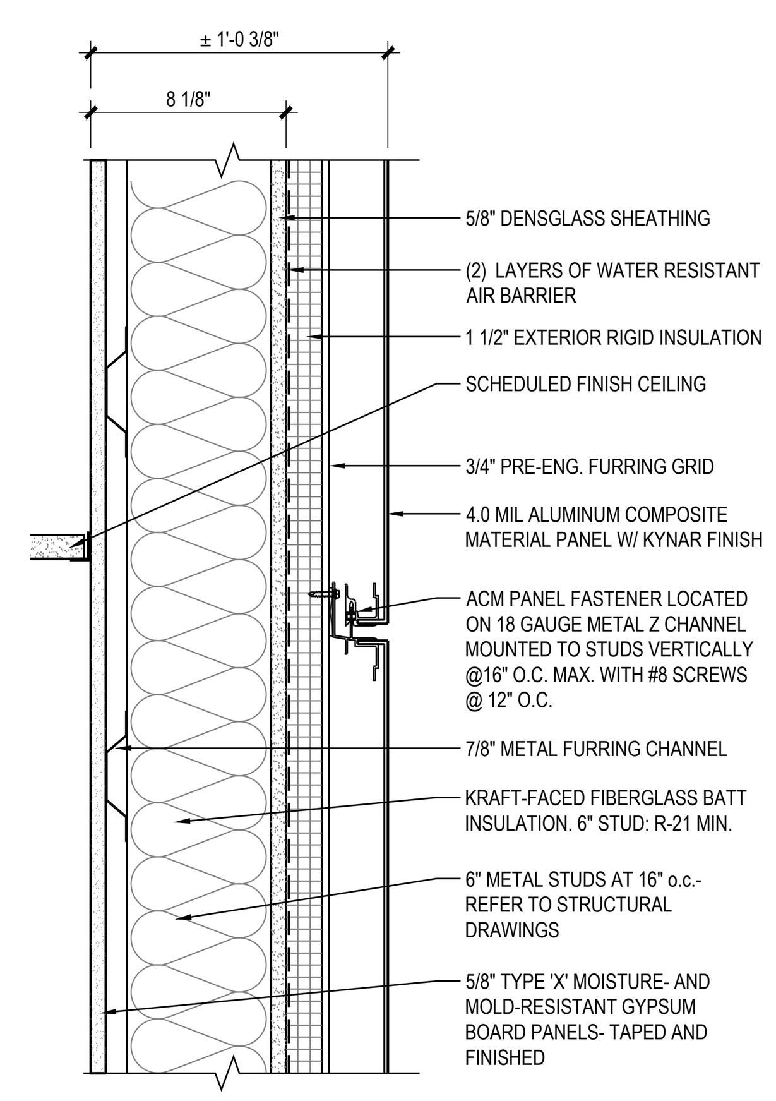
WN2 — SAME AS "WN" BUT REPLACE 5/8" GYP. BD. WITH 5/8" DENSGLASS

WN3 — SAME AS "WN1" BUT WITH INTERIOR GYP. BD. FURRED INTO SPACE
WITH A 2 1/2" STUD

WN4 — SAME AS "WN" BUT WITHOUT 5/8" GYP. BD.

WN5 — SAME AS "WN" BUT WITHOUT INSULATION AND REPLACE 5/8" GYP. BD.
WITH 5/8" DENSDECK

WN6 — SAME AS "WN" BUT WITH BOTH A 2 1/2" AND 6" STUD FOR FRAMING
SEE STRUCTURAL

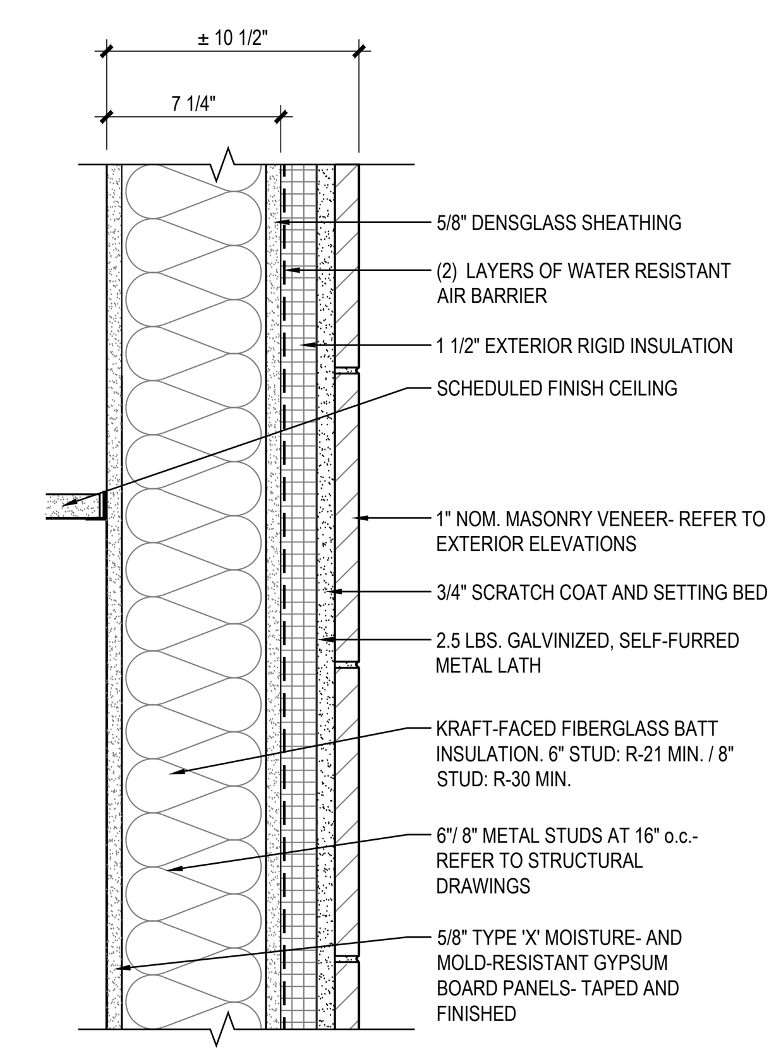


WD — EXTERIOR FRAME WALL WITH ALUMINUM PANEL
VERIFY FIRE RATING REQUIRED

WD1 — SAME AS "WD" BUT OMIT 7/8" HAT CHANNEL
SEE STRUCTURAL

WD2 — SAME AS "WD" BUT WITH INTERIOR GYP. BD. FURRED INTO SPACE
WITH A 2 1/2" METAL STUD

PRE-ENGINEERED 3/4" FURRING GRID OPTIONS
1. KNIGHT WALL WALL SYSTEMS CI SYSTEM
2. SMARTci GREENGRIT SYSTEM
3. BRACKET & WALL SYSTEMS:
   A. CASCADIA CLIPS
   B. KNIGHT WALL SYSTEM MFI SYSTEM



WB — EXTERIOR 6" FRAME WALL WITH MASONRY VENEER
VERIFY FIRE RATING REQUIRED

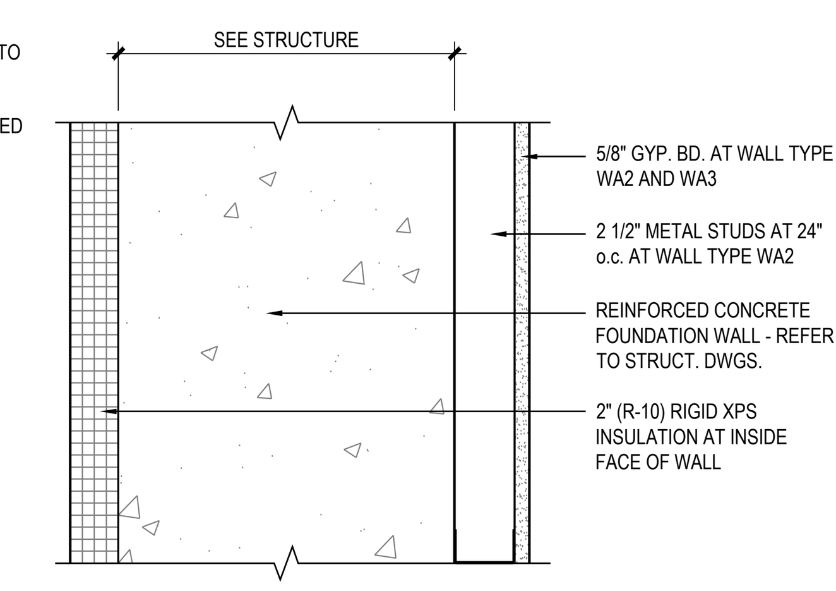
WB1 — SAME AS "WB" BUT WITH DOUBLE STUD FRAMING
SEE STRUCTURAL

WB2 — SAME AS "WB" BUT REPLACE 5/8" GYP. BD. WITH 5/8" DENSGLASS

WB3 — NOT USED

WB4 — SAME AS "WB" BUT WITHOUT 5/8" GYP. BD.

WB5 — SAME AS "WB" BUT WITHOUT INSULATION AND REPLACE 5/8" GYP. BD.
WITH 5/8" DENSDECK



WA — FOUNDATION WALL- INSULATED
NOT FIRE-RATED

WA1 — FOUNDATION WALL- NON-INSULATED
SAME AS 'WA' EXCEPT OMIT RIGID INSUL.
NOT FIRE-RATED

WA2 — FOUNDATION WALL- INSULATED
SAME AS 'WA' EXCEPT ADD 2 1/2" METAL STUD FURRING AND 5/8" GYP. BD. TO INTERIOR FACE

WA3 — FOUNDATION WALL- INSULATED
SAME AS 'WA' EXCEPT ADD 5/8" GYP. BD. TO INTERIOR FACE

1 A3.1.0 WALL TYPES
1 1/2" = 1'-0"

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
April 21, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

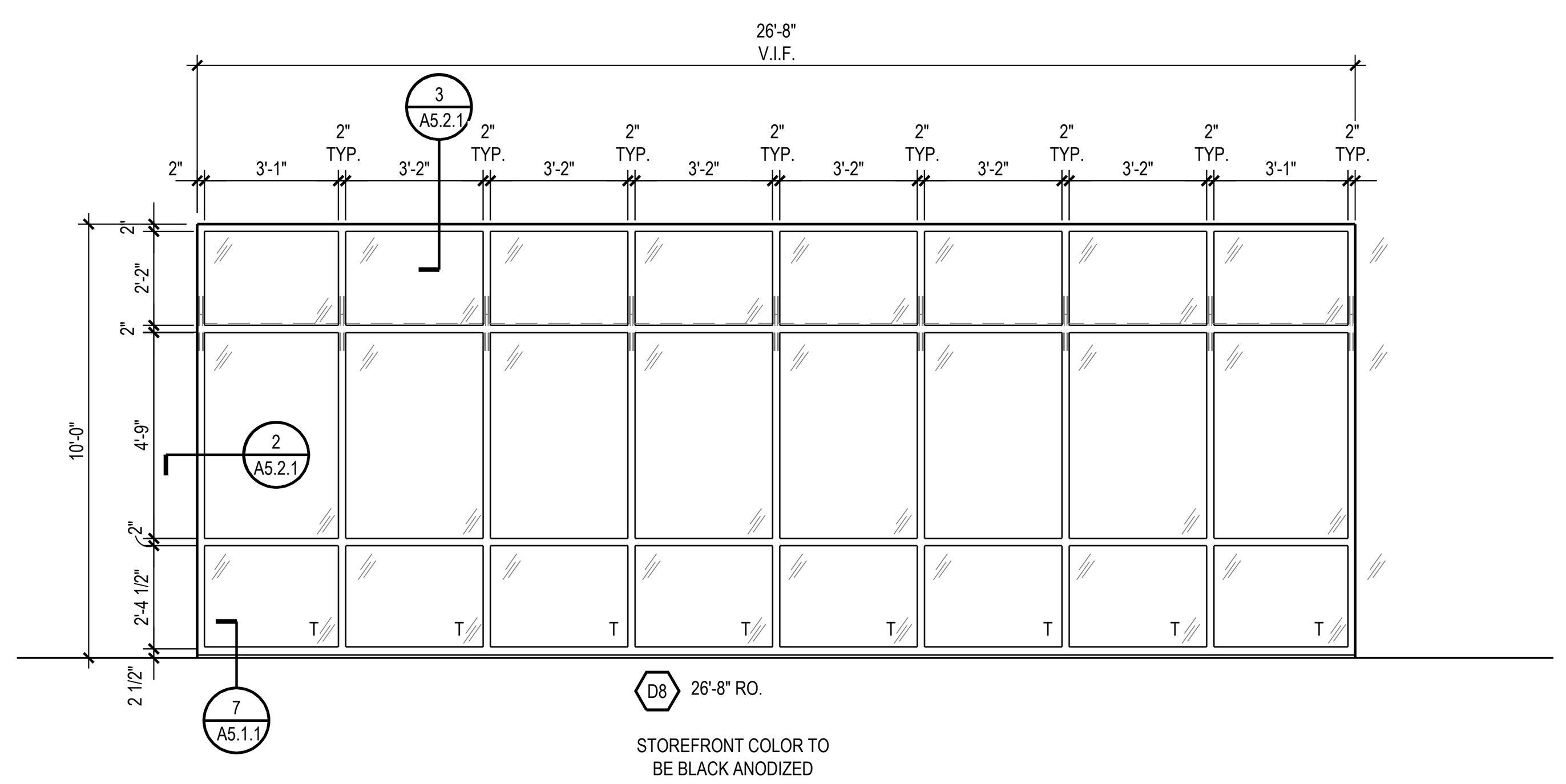
WALL TYPES
FLOOR TYPES
ROOF TYPES

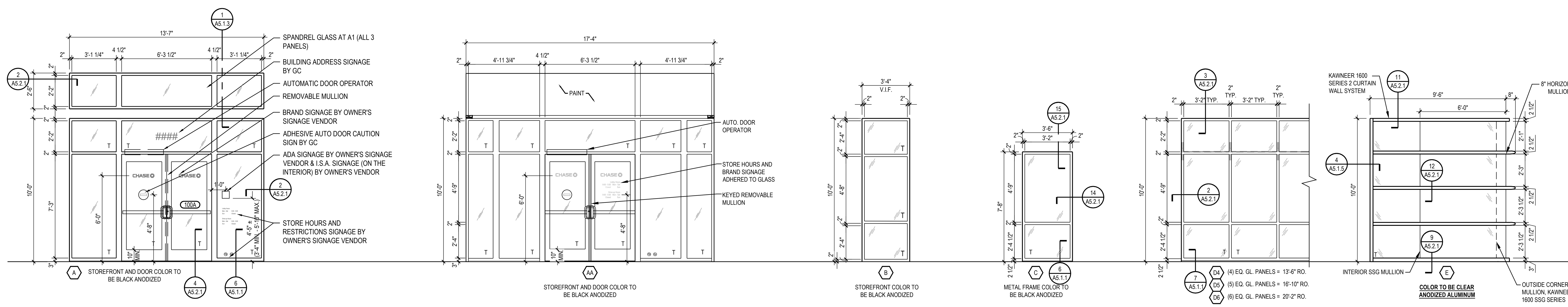
SHEET NUMBER

A3.1.0

DOOR TYPES SCHEDULE

DOOR NO.	ROOM NAME	TYPE	TYPICAL SIZE W	TYPICAL SIZE H	TYPICAL SIZE T	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HDWR.	NOTES
100	TRANS. VEST.	A ENTRANCE	(2) 3'-1 3/4"	7'-6"	1 3/4"	ALUMINUM / INSUL. GLASS	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	01	WIDE-STILE, 10" BOTTOM RAILS, REMOVABLE MULLION, STORE HOURS SIGNAGE BY OWNER
100A	TRANS. VEST.	B VESTIBULE	(2) 3'-1 3/4"	7'-6"	1 3/4"	ALUMINUM / GLASS	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	02	WIDE-STILE, 10" BOTTOM RAILS, REMOVABLE MULLION
109	PRINT/FILE RM.	E SECURED	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03	CLOSER CONCEALED FROM CUSTOMER VIEW
110	UNISEX RESTROOM #1	F PRIVACY	3'-0"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	04	TYPICAL AT RESTROOMS. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST. NOTE: PREP DOOR TO ACCEPT MAGNETIC RESET MECHANISM
111	UNISEX RESTROOM #2	F PRIVACY	3'-0"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	04	TYPICAL AT RESTROOMS. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST. NOTE: PREP DOOR TO ACCEPT MAGNETIC RESET MECHANISM
112A	CORRIDOR	M PASSAGE	3'-0	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	05	CLOSER CONCEALED FROM CUSTOMER VIEW
112B	CORRIDOR	H EGRESS/STEEL	3'-0"	7'-6"	1 3/4"	INSUL. STEEL	INT.: MATCH WALL EXT: EPT-1	HOLLOW METAL	INT.: MATCH WALL EXT: EPT-1	09	EGRESS DOORS IN HOLLOW METAL FRAMES
113	LOUNGE	E SECURED	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03	CLOSER CONCEALED FROM CUSTOMER VIEW
114	JANITOR CL.	L UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	06	OMIT CLOSER AND HOLD-OPEN AT DOORS TO ROOMS WITH LADDERS ONLY. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST. PROVIDE KICK PLATES AT EACH SIDE, AND COMBINED STOP/HOLDER PER HARDWARE SCHEDULE.
115	DATA ROOM	L UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	06	1-HR RATED. PROVIDE KICK PLATES AT EACH SIDE, AND COMBINED STOP/HOLDER PER HARDWARE SCHEDULE.
117	LAO / ACCESS TELLER/ ATM & AHD RM.	G BULLET-RESISTANT	3'-4"	7'-0"	1 3/4"	REINFORCED SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	10	DOOR, FRAME, HINGE, DOOR SCOPE, DOOR HARDWARE AND CLOSER PROVIDED BY BANK EQUIPMENT VENDOR- G.C.'S PAINTER TO FIELD PRIME AND PAINT DOOR.
118	MANUAL TRANSACTION	M PASSAGE	3'-4"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03	CLOSER CONCEALED FROM CUSTOMER VIEW





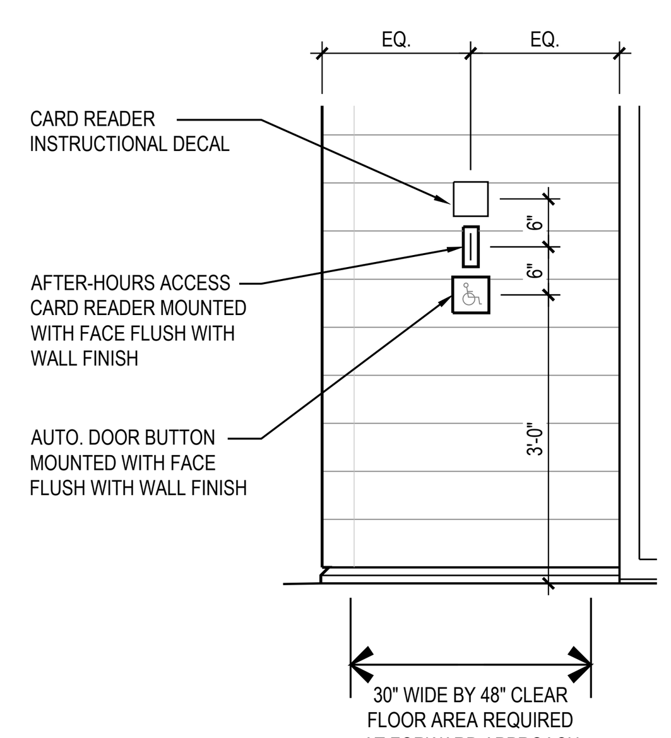
AT NON-ADA-COMPLIANT ENTRANCES, PROVIDE ADA-COMPLIANT DIRECTIONAL SIGNAGE FEATURING THE INTERNATIONAL SYMBOL ACCESSIBILITY AS REQD. TO DIRECT APPROACHING FOOT TRAFFIC TO THE COMPLIANT ENTRANCE

- ALL UNIT DIMENSIONS ARE NOMINAL AND MAY VARY BY MANUFACTURER- COORDINATE WITH WALL SECTIONS
- INDIVIDUAL LITES DESIGNATED WITH THE 'T' SYMBOL REQUIRE TEMPERED SAFETY GLASS- VERIFY ADDITIONAL REQUIREMENTS WITH APPLICABLE BUILDING CODES
- MODIFY SIGNAGE DESIGN AS REQUIRED TO COMPLY WITH LOCAL BUILDING AND ZONING CODES AND SUBMIT TO OWNER FOR APPROVAL

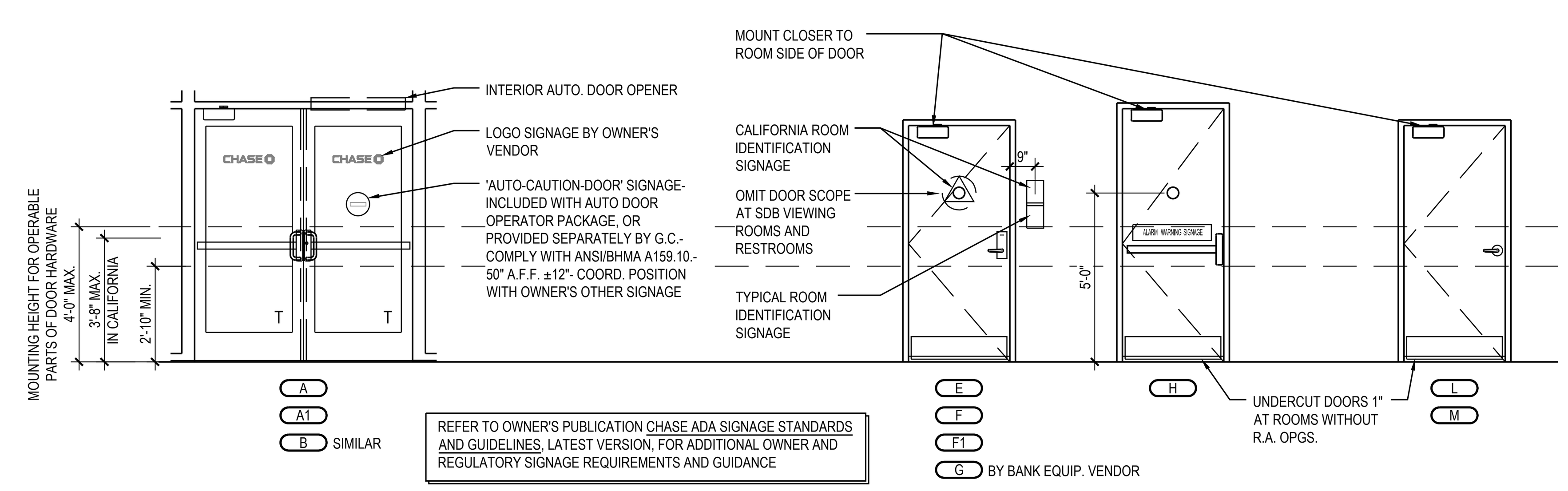
WINDOW NOTES

1. VERIFY ALL DIMENSIONS IN THE FIELD.
2. G.C. TO SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW & APPROVAL PRIOR TO FABRICATION.
3. ALL ALUMINUM STOREFRONT MULLIONS TO BE 2" WIDE x 4 1/2" DEEP UNLESS NOTED OTHERWISE.
4. "T" = TEMPERED GLAZING.
5. "SP" = SPANDREL GLAZING.
6. ALL GLASS TO BE CLEAR, NO TINT UNLESS NOTED OTHERWISE.
7. ALL ALUMINUM STOREFRONT FINISH TO BE BLACK ANODIZED. (U.O.N.)

2 A3.2.1 WINDOW TYPES
1/4" = 1'-0"



NATIONAL STANDARD



REFER TO OWNER'S PUBLICATION CHASE ADA SIGNAGE STANDARDS AND GUIDELINES, LATEST VERSION, FOR ADDITIONAL OWNER AND REGULATORY SIGNAGE REQUIREMENTS AND GUIDANCE

DOOR NOTES
1. REFER TO SHEET A5.2.1 FOR DOOR HEAD/JAMB AND THRESHOLD DETAILS.

3 A3.2.1 AUTO DOOR BUTTONS AND SIGNAGE
1/2" = 1'-0"

1 A3.2.1 DOOR TYPES
1/4" = 1'-0"

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STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

DOOR TYPES SCHEDULE
DOOR TYPES
WINDOW TYPES

SHEET NUMBER

A3.2.1

DOOR HARDWARE SCHEDULE

GROUP	COMPONENT	MFR.	MODEL	FINISH	NOTES
01 ENTRANCE / 01A ENTRANCE 2	BUTT HINGE (6)	HAGER	BB1191 4.5x4.5 L1 NRP	MATCH STOREFRONT COLOR	STOCK# 006597 NOTE: STANDARD CHASE CB2020 COLOR: STANDARD POWDER COAT BLACK
	REMOVABLE MULLION	VON DUPRIN	KR4854	MATCH STOREFRONT COLOR	PROVIDE REMOVABLE MULLION AT ALL NEW BUILDS. IF REMOVABLE MULLION CANNOT BE INSTALLED DUE TO SITE CONSTRAINTS, PROVIDE ALTERNATE HARDWARE: SEE NOTE 9
	PANIC BAR	VON DUPRIN	CD99EO	MATCH STOREFRONT COLOR	
	PANIC BAR	VON DUPRIN	CD99NL-OP	MATCH STOREFRONT COLOR	
	MORTISE CYLINDER	SCHLAGE	20-001/C123	626 SATIN CHROMIUM	NOTE 8
	MORTISE CYLINDER (2)	SCHLAGE	20-001 XQ11-948/C123	626 SATIN CHROMIUM	
	RIM CYLINDER	SCHLAGE	20-022	626 SATIN CHROMIUM	
	ELECTRIC STRIKE	VON DUPRIN	6111 FSE DS 24V	630 SATIN STAINLESS STEEL	OMIT AT TYPE 01A (NOTES 4,5)
	CARD READER SYSTEM	PARABIT	ACSIEV2	BLACK	PROVIDED AND INSTALLED BY OWNER'S SECURITY SYSTEM VENDOR, OMIT AT TYPE 01A (NOTES 4,5)
	OFFSET DOOR PULL (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL	
	OFFSET DOOR PULL (ALT.) (2)	TRIMCO	8191191E-3-4.BPVC	PVC	PVC-COATED "STAY-COOL" PULLS FOR USE IN THE DESERT SOUTHWEST ONLY.
	POWER OPERATOR	LCN	4640 CS	MATCH STOREFRONT COLOR	OMIT AT TYPE 01A. MATCH EXISTING STOREFRONT COLOR AT IN-LINE OR EXISTING BUILDING PROJECTS. GC TO CONFIRM FINISH COLOR WITH ARCHITECT PRIOR TO ORDER. INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2. (NOTE 5)
	DOOR PUSHPLATES (2) EXCEPT CALIFORNIA PROJECTS	LCN	8310-818T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (4) CALIFORNIA PROJECTS ONLY	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (2) OPT. BAR AT CALIFORNIA PROJECTS ONLY	LCN	8310-836T (6" x 36" BAR)	SATIN S.S	OMIT AT TYPE 01A
	SURF.-MOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE A WALL WITH ACCESSIBLE CLEARANCES IS NOT AVAILABLE. NOT TO BE USED AT ANY EXTERIOR NEW-BUILD CONDITION. GC TO CONFIRM WITH ARCHITECT.
	KEY SWITCH	SCHLAGE	653-1414-L2	---	NARROW-STILE COVER PLATE- OMIT AT TYPE 01A.
	CLOSER	LCN	4111-3077CNS	MATCH STOREFRONT COLOR	PROVIDE 2 AT TYPE 01A, SET TO LOWEST POSSIBLE OPENING FORCE REQUIRED TO MAINTAIN WEATHER SEAL INTEGRITY
	SEALS	PEMKO	297AS	MILL-FIN. ALUMINUM	
	SWEEP- STANDARD	PEMKO	2170 DV	DARK BRONZE VINYL	
	SWEEP- HIGH WIND CONDITIONS	PEMKO	315 DN	DARK ANOD. BRONZE	ORDER LONG AND CUT METAL SHORT TO ALLOW NEOPRENE TO EXTEND BEYOND DOOR LOCK EDGE
	THRESHOLD	PEMKO	253X3AFG	MILL-FIN. ALUMINUM	
02 VESTIBULE	BUTT HINGE (6)	HAGER	BB1191 4.5X4.5 L1 NRP	MATCH STOREFRONT COLOR	STOCK# 006597 NOTE: STANDARD CHASE CB2020 COLOR: STANDARD POWDER COAT BLACK
	REMOVABLE MULLION	VON DUPRIN	KR4954	MATCH STOREFRONT COLOR	
	PANIC BAR	VON DUPRIN	CD99EO	MATCH STOREFRONT COLOR	
	PANIC BAR	VON DUPRIN	CD99NL-OP	MATCH STOREFRONT COLOR	
	MORTISE CYLINDER	SCHLAGE	20-001/C123	626 SATIN CHROMIUM	NOTE 8
	MORTISE CYLINDER (2)	SCHLAGE	20-001 XQ11-948/C123	626 SATIN CHROMIUM	
	RIM CYLINDER	SCHLAGE	20-022	626 SATIN CHROMIUM	
	OFFSET DOOR PULL (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL	
	POWER OPERATOR	LCN	4640CS	MATCH STOREFRONT COLOR	INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2 (NOTE 5)
	DOOR PUSHPLATES (2) EXCEPT CALIFORNIA PROJECTS	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (4) CALIFORNIA PROJECTS ONLY	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (2) OPT. BAR AT CALIFORNIA PROJECTS ONLY	LCN	8310-836T (6" x 36" BAR)	SATIN S.S	OMIT AT TYPE 01A
	SURF.-MOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE A WALL WITH ACCESSIBLE CLEARANCES IS NOT AVAILABLE. NOT TO BE USED AT ANY EXTERIOR NEW-BUILD CONDITION. GC TO CONFIRM WITH ARCHITECT.
	KEY SWITCH	LCN	8310-806K	---	RECESSED IN HINGE JAMB MULLION at 38" AFF (NOTE 5)
	CLOSER	LCN	4111-3077CNS	MATCH STOREFRONT COLOR	LEFT-HAND LEAF AS VIEWED FROM EXTERIOR, ADA COMPLIANT
03 SECURED	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	652 SATIN CHROMIUM	
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-C123	626 SATIN CHROMIUM	NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS; ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	AT DOORS OPENING AGAINST WALL; WITH R14 RISER AS REQUIRED
	OVERHEAD STOP	GLYNN-JOHNSON	410S	630 SATIN STAINLESS STEEL	AT DOORS OPENING AGAINST FURNITURE
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
04 PRIVACY	BUTT HINGE (3)	HAGER	BB1191 ANSI A22112 4.5x4.5	652 SATIN CHROMIUM	
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-40-KP-SPA-626-PD-C123	626 SATIN CHROMIUM	WITH PRIVACY FUNCTION; PREPARE DOOR FOR MAGNETIC RESET FUNCTION. NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS, ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH
	COAT HOOKS (2)	IVES	581	626 SATIN CHROMIUM	AT RESTROOMS ONLY, 1 AT 36" AFF, 1 AT 60" AFF
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY- OMIT AT RESTROOMS & SDB VIEWING ROOMS, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
04A STANDARD AT SDB VIEWING RM. --- ALTERNATE AT RESTROOMS BY EXCEPTION	BUTT HINGE (3)	HAGER	BB1191 ANSI A22112 4.5x4.5	652 SATIN CHROMIUM	
	PRIVACY LOCK	SCHLAGE	ND50PD/C123/SPA	626 SATIN CHROMIUM	PUSH-BUTTON PRIVACY INTERIOR / KEYED EXTERIOR; NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	OMIT AT SDB VIEWING ROOMS; DOOR-MOUNT ON ROOM SIDE, ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH
	COAT HOOKS (2)	IVES	581	626 SATIN CHROMIUM	AT RESTROOMS ONLY, 1 AT 36" AFF, 1 AT 60" AFF
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY- OMIT AT RESTROOMS & SDB VIEWING ROOMS, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
05 PASSAGE	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	652 SATIN CHROMIUM	
	PASSAGE LATCH SET	SCHLAGE	ND10S/SPA	626 SATIN CHROMIUM	INCLUDE MILLED GROOVES (/8SP) AT ELECTRICAL ROOM DOORS
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS, ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH
	SILENCERS	IVES	SR64	GRAY	
06 UTILITY	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	652 SATIN CHROMIUM	
	STOREROOM LOCK SET	SCHLAGE	ND80PD/C123/SPA	626 SATIN CHROMIUM	NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS, ADA COMPLIANT
	CONCEALED OVERHEAD STOP/HOLDER	GLYNN-JOHNSON	410H	630 SATIN STAINLESS STEEL	OVERHEAD CONCEALED COMBINED STOP/HOLDER REQUIRED AT PLUMBING/JANITOR CLOSET, ELECTRICAL, AND DATA ROOMS; OMIT AT ROOMS WITH LADDER ONLY.
	KICK PLATE (2)	IVES	8400	630 SATIN STAINLESS STEEL	8" x 2" LESS THAN DOOR WIDTH; PLUMBING/JANITOR CLOSET, ELECTRICAL, AND DATA ROOMS REQUIRE KICK PLATES AT BOTH SIDES OF DOOR.
	DOOR SWEEP	PEMKO	4131CNBL	CLEAR ANOD. ALUMINUM	DATA ROOM DOOR ONLY
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
09 EGRESS	BUTT HINGE (2)	HAGER	BB1191 ANSA A5112 NRP 4.5x4.5	630 SATIN STAINLESS STEEL	
	POWER TRANSFER HINGE (1)	HAGER	BB1191 ANSIA5112 ETW 4.5 x 4.5	630 SATIN STAINLESS STEEL	4-CONDUCTOR THROUGH-WIRE POWER TRANSFER HINGE
	PANIC BAR WITH ALARM	VON DUPRIN	99NL-OP-ALK-AR-CON-3'-US26D	626 SATIN CHROMIUM	PANIC BAR WITH ALARM KIT, AUTO-RESET, AND MFR'S POWERED HINGE WIRING KIT, LENGTH AS REQD.
	ALARM POWER SUPPLY	VON DUPRIN	PS-900 SERIES	---	INCLUDE INTERNAL BACKUP BATTERY; SEE NOTE 7
	MORTISE CYLINDER	SCHLAGE	20-001/C123	626 SATIN CHROMIUM	NOTE 8
	RIM CYLINDER	SCHLAGE	20-022	626 SATIN CHROMIUM	
	CLOSER	LCN	4111-3077 CNS	SP28 GRAY PAINT	ADA COMPLIANT
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	8" x 2" LESS THAN DOOR WIDTH
	SEALS	PEMKO	297AS	MILL-FIN. ALUMINUM	
	DOOR SWEEP	PEMKO	315CN	CLEAR ANOD. ALUMINUM	
	THRESHOLD	PEMKO	170A	MILL-FIN. ALUMINUM	
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000 168 degree	SILVER PAINT	ALUMINUM BODY, NOTE 1
10 BULLET-RESISTANT	CONTINUOUS HINGE	---	---	SATIN CHROME/STAINLESS STEEL	BY BANK EQUIPMENT VENDOR
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-C123	626 SATIN CHROMIUM	BY BANK EQUIPMENT VENDOR; NOTE 8
	CLOSER	LCN	4011/4041-3077 CNS	SP28 GRAY PAINT	BY BANK EQUIPMENT VENDOR, ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 8" x 2" LESS THAN DOOR WIDTH
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
14 TRASH ENCLOSURE GATE	BARREL HINGES (1 PAIR PER LEAF)	GUARDIAN	2130.100	PAINT TO MATCH ADJ. FINISH	AT C.M.U. ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
			2135.100	PAINT TO MATCH ADJ. FINISH	AT STEEL POST ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
	LATCH	STANLEY	621513	GALVANIZED STEEL	OR EQUAL
	PULL (1 PER LEAF)	CROWN BOLT	62309	GALVANIZED STEEL	OR EQUAL
	CANE BOLT (1 PER LEAF)	STANLEY	532531	GALVANIZED STEEL	BY PANEL SYSTEM MANUFACTURER
	SPRING-LOADED CASTERS (1 PER LEAF)	ABBEY TRADING	081-368-1	GALVANIZED STEEL	OR EQUAL
	BOLTS AND MISC. HARDWARE	---	---	STAINLESS STEEL	
16 EMPLOYEE ENTRANCE	BUTT HINGE (3)	HAGER	BB1191 4.5x4.5 L1 NRP	MATCH STOREFRONT COLOR	STOCK #006597
	MORTISE DEAD LATCH	SCHLAGE	L9080/C123/SPA	626 SATIN CHROMIUM	WHERE DOOR MFR'S LOCK BODY IS REQD., PROVIDE SCHLAGE LOCK CYLINDER, ANSI F07 "STOREROOM LOCK" FUNCTION; ADA SINGLE-ACTION COMPLIANT; NOTE 8
	LEVERS (2)	SCHLAGE	SPARTA	626 SATIN CHROMIUM	
	SILENCERS	IVES	SR64	GRAY	
	CLOSER	LCN	4111-3077/CNS	MATCH STOREFRONT COLOR	NOTE: STANDARD CHASE CB2020 COLOR: STANDARD POWDER COAT BLACK
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	

NOTES:	1.	DOOR SCOPE REQUIRED UNLESS DOOR INTO ROOM CANNOT BE CLOSED WHILE OCCUPIED (I.E. CLOSETS) OR DOOR DOES NOT OPEN INTO AREAS ACCESSIBLE TO CUSTOMERS.
	2.	HARDWARE SET 08A - ALT. GLASS SHALL BE SPECIFIED ONLY AT PROJECTS WHERE AUTHORITIES HAVING JURISDICTION DO NOT PERMIT THE 4" BEVELLED BOTTOM RAIL EXCEPTION TO THE 10" DOOR BOTTOM RAIL REQUIREMENT.
	3.	DOOR HARDWARE VENDOR IS TO VERIFY COMPATIBILITY OF SPECIFIED HARDWARE AND SUBMIT RECOMMENDATIONS AS REQUIRED TO THE G.C. TO CONFORM TO THE LOCK FUNCTION AND FINISH HARDWARE CONFIGURATION DESIGN INTENT. ANY DEVIATIONS FROM SCEHDULED HARDWARE MUST BE APPROVED BY THE OWNER. CHANGE ORDERS RESULTING FROM NON-COMPATIBIILTY OF HARDWARE WILL NOT BE ACCEPTED.
	4.	OMIT PARABIT AFTER-HOURS CARD READER ACCESS SYSTEM WHERE DOORS DO NOT ACCESS A 24-HOUR VESTIBULE WITH ATM OR OTHER CUSTOMER-FACING EQUIPMENT.
	5.	REFER TO AUTO DOOR CONTROL DIAGRAMS, SHEET E3.
	6.	ADJUST DOOR CLOSERS TO COMPLY WITH ANSI A117.1 REQUIREMENTS FOR OPENING FORCE AND CLOSING SPEED. SET OPENING FORCE AS LOW AS POSSIBLE WHILE ALLOWING THE DOOR TO FULLY LATCH.
	7.	FOR PROJECTS WITH A SINGLE ALARMED EGRESS DOOR, INSTALL POWER SUPPLY ABOVE FINISH CEILING OVER DOOR. FOR PROJECTS WITH MULTIPLE ALARMED DOORS, INSTALL SIZE POWER SUPPLY FOR MULTIPLE DOORS AND INSTALL IN A CENTRAL LOCATION.
	8.	G.C. TO COORDINATE WITH OWNER'S FACILITY MANAGER TO VERIFY LOCK CORE AND KEYWAY COMPATIBILITY WITH REGIONAL HARDWARE STANDARDS- MATCH LOCAL CONFIGURATION.
	9.	WHEN REMOVABLE MULLION CANNOT BE INSTALLED IN THE EXTERIOR ENTRY DOOR, PROVIDE VON DUPRIN SERIES 99 WITH CONCEALED VERTICAL ROD EXIT DEVICE.

NOTE: NOT ALL HARDWARE MAY BE USED IN THE SCOPE OF THIS PROJECT.

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

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St. Louis, MO 63109
314.843.4320
www.core-states.com
COA #: A-2014026908

ARCHITECT OF RECORD

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

DOOR HARDWARE SCHEDULE

SHEET NUMBER

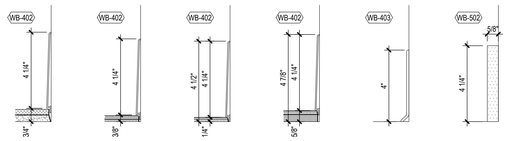
A3.2.2

P:\J.P. Morgan Chase\Lee's Summit, MO (Hwy 291 and SE Langford Rd.)-JPM.27135.001\AMEPS_Drawings\A322_Hwy 291 and NE Langsford Rd_JPM_HardwareSchedule.dwg
Monday, July 6, 2020 12:43:25 PM

INTERIOR FINISH SCHEDULE

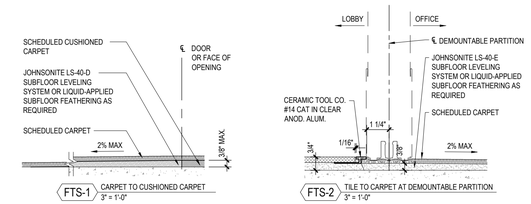
TRANSACTION VESTIBULE		
	FLOOR- FIELD TILE	T-501
	WALK-OFF MAT	CPT-302
	WALL BASE	WB-402
	ATM WALL	WC-402
	WALLS (NON-ATM)	PT-500
	SUSPENDED GRID CEILING	ACT-4
	SOFFITS- FACE AND BOTTOM	PT-500
	LIGHT FIXTURES- GENERAL	L-500
	ILLUMINATED OCTAGON	PREFERRED
LOBBY AND CORRIDOR		
	FLOOR- FIELD TILE	T-501
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	WALL - CAFÉ / COMMUNITY WALL	PT-311 (NOTE 13)
	WALL - ATM WITH DIGITAL SCREEN	PT-311 (NOTE 13)
	SUSPENDED GRID CEILING	ACT-4
	GYPSUM CEILINGS, SOFFIT BOTTOMS AND SOFFIT FACES NOT FLUSH WITH WALL	PT-500
	WINDOW SILLS	SS-300
	LIGHT FIXTURES- GENERAL	L-500
	LIGHT FIXTURES - CEILING ACCENT	L-11
	WINDOW SHADES (NOTE 6B)	WT-1 / WT-2
LIVING ROOM		
	FLOOR- AREA RUG	LRAR-4
	WALLS- GENERAL	PT-500
	FEATURE WALL PANELS	WD-601
	LIGHT FIXTURES- GENERAL	L-500
MANUAL TRANSACTIONS		
	FLOOR	CPT-321
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	WALLS - MANUAL TRANSACTION BACK WALL	PT-500
	WALLS- ACCENT	(NOTE 13)
	MILLWORK- GENERAL	PL-502 / PL-503
	MANUAL TRANSACTION MODULE FRONT PANELS	(NOTE 5)
	MANUAL TRANSACTION MODULE COUNTER	(NOTE 5)
	CEILING	ACT-4
	SOFFITS- BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
	LIGHT FIXTURES- GENERAL	L-11
	ILLUMINATED OCTAGON	PREFERRED
	SCRIM	WT-20
CASUAL AND PRIVATE CONSULTATION SPACE (CCS, PCS)		
	FLOOR - GENERAL	CPT-320
	WALL BASE	WB-400
	WALLS	(NOTE 12)
	WALLS - PARTIAL HEIGHT	(NOTE 12)
	GLAZING HARDWARE	DEMOUNTABLE WALL SYTEM (NOTE 12)
	DOOR CLOSER COVER	DEMOUNTABLE WALL SYTEM (NOTE 12)
	CEILING	ACT-4
	PCS/CMS BULKHEADS	PT-500
	SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
	LIGHT FIXTURES- GENERAL	L-500
	LIGHT FIXTURES- PENDANT - PCS	L-410
	WINDOW SHADES: PCS / CMS (NOTE 6B)	WT-1 / WT-2
CONFERENCE ROOM		
	FLOOR - GENERAL	CPT-320
	WALL BASE	WB-402
	WALLS	(NOTE 12)
	WALLS - PARTIAL HEIGHT	(NOTE 12)
	GLAZING HARDWARE	DEMOUNTABLE WALL SYTEM (NOTE 12)
	DOOR CLOSER COVER	DEMOUNTABLE WALL SYTEM (NOTE 12)
	CEILING	ACT-4
	CONFERENCE BULKHEADS	PT-500
	SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
	LIGHT FIXTURES- GENERAL	L-500
	LIGHT FIXTURES - ACCENT - CONFERENCE ROOM	L-413
	WINDOW SHADES: CONFERENCE (NOTE 6B)	WT-7
BOOTH		
	FLOOR	T-501
	WALL BASE	WB-402
	WALLS - ACCENT PAINT	PT-501 (NOTE 12)
	WALLS - WOOD ACCENT	WD-502
	CEILING	WD-502
	BOOTH BULKHEADS	PT-500
	SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
	LIGHT FIXTURES- GENERAL	L-500
	LIGHT FIXTURES- PENDANT LIGHT	L-411
	WINDOW SHADES: PCS / CMS (NOTE 6B)	WT-1 / WT-2

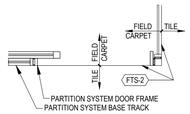
DINING ROOM TABLE (DRT)		
	FLOOR (DRT ON HARD SURFACE)	T-501
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	WALLS - DIGITAL	PT-311 (NOTE 13)
	WALLS - PARTIAL HEIGHT	PT-500
	CEILING	ACT-4
	LIGHT FIXTURES- GENERAL	L-500
SDB CHEST ROOM OR VAULT		
	FLOOR	CPT-320
	WALL BASE	WB-402
	WALLS - GENERAL	PT-500
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
SDB VIEWING ROOM		
	FLOOR	CPT-320
	WALL BASE	WB-402
	WALLS	PT-500
	WALL- ACCENT (COUNTER WALL)	PT-501
	MILLWORK COUNTER	SS-300
	CARREL COUNTER	SS-300
	CEILING	ACT-2
	LIGHT FIXTURES- GENERAL	L-2
RESTROOMS (NOTE 6B)		
	FLOOR- FIELD	T-402
	WALLS - GENERAL	PT-500
	WALL- VANITY	PT-501
	WALL TILE	T-402
	CEILING	ACT-2
	LIGHT FIXTURES- GENERAL	L-2
WORK / PRINT / FILE / STORAGE ROOMS, LTOS AND CASH ROOMS SEPARATE FROM MANUAL TRANSACTION AREAS		
	FLOOR	CPT-320
	WALL BASE	WB-402
	WALLS	PT-500
	MILLWORK	PL-502 / PL-503
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO MANUAL TRANSACTION AREAS		
	FLOOR	CPT-321
	WALL BASE	WB-402
	WALLS	PT-500
	MILLWORK	PL-502 / PL-503
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
LOUNGE		
	FLOOR	T-402
	WALL BASE	WB-402
	WALLS	PT-500
	MILLWORK COUNTER	PL-503
	MILLWORK	PL-502
	CEILING	ACT-2
	LIGHT FIXTURES	L-2
JANITOR / DATA / ELECTRICAL/ LADDER / ATM ROOMS		
	FLOOR	SC (NOTE 14)
	WALL BASE	WB-403
	WALLS (NOTE 8)	PT-500
	FLOOR SINK WALLS (NOTE 6)	FRP-1
	LADDER AREA WALLS (NOTE 6)	FRP-1
	CEILING	ACT-2 (U.N.O.)
	LIGHT FIXTURES	L-2 (U.N.O.)



3 / A3.3.1 TYP. WALL BASE

3" = 1'-0"





ACCENT PAINT LOCATION GUIDELINES:

REQUIRED AT:
- WALLS WITH LETTERSETS

PREFERRED AT:
- SOFFITS WITH LETTERSETS
- BRAND FOCAL WALLS
- eMERCH WALLS
- "SO YOU CAN" FEATURE WALLS
- PAPER DOMINANT WALLS (EXCEPT BEHIND TELLER LINE)
- LOBBY FOCAL POINTS

NOTES:
1. PREFERENCE TO TERMINATE ACCENT PAINT AT INSIDE CORNERS
2. REFER TO FINISH SCHEDULE FOR ACCENT PAINT COLOR

FLOORING TRANSITION FINISHES

MATERIAL	PALETTE	FINISH
NON-METALLIC TRANSITIONS	ALL	BLACK
METALLIC TRANSITIONS	ALL	CLEAR ANODIZED ALUMINUM
T-BAR	ALL	CLEAR ANODIZED ALUMINUM

VENDOR CONTACTS

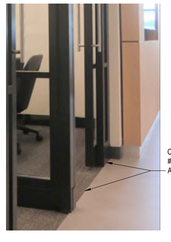
NOTE: CONFIRM CONTACT INFORMATION FOR APPROVED VENDORS WITH CHASE PROJECT MANAGER/COORDINATOR.

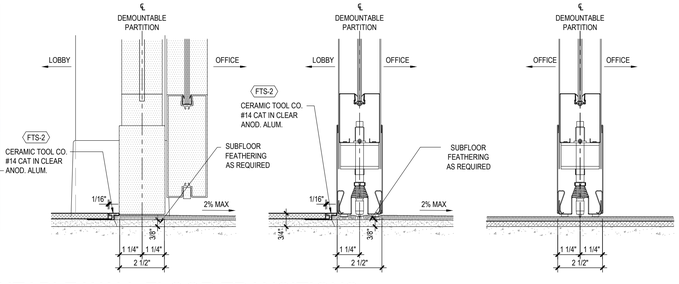
VENDOR / MFR.	CONTACT	PHONE	E-MAIL
ACME BRICK CO.	---	708-344-1000	---
BENJAMIN MOORE	LOCAL DISTRIBUTOR		
BENTLEY PRINCE STREET	CHRIS CLARK	800-423-4709 EXT 5844	Chris.Clark@bentleymills.com
BROOKSIDE VENEERS	KEVIN HALL	718-369-0526	kevinh@brooksideveneers.com
CARRIER	JOANNE HERTEL	315-432-7634	joanne.hertel@carrier.utc.com Strategic.Accounts1@carrier.utc.com
CBBE	KRISTI FRANKS	770-342-8272	Kfranks@cbbe.net
CERTAINTEED	LOCAL DISTRIBUTOR		
CORONADO STONE	DERRICK JOHNSON	909-561-8922	derrick@coronado.com
DAINTREE B.M.S. (CURRENT BY GE)	PETER MEGAN	603-247-3363	peter.megan@gecurrent.com
DESIGN TEX	JULIE BRINKWORTH	800-221-1540	jbrinkworth@designtex.com
DL COUCH	MEGAN CUDA	800-433-0790 EXT.1113	mcuda@dlcouch.com
EMSER	AMBER SHOWALTER	323-650-2000	chase@emser.com
FSG	ISAIAH RAMDEEN	888-671-4074	jpmc@fsgi.com
GORDON, INC.	ERIC MAU	847-797-1010	eric@mauinc.com
HARVEY CEMENT PRODUCTS, INC.	ELLICE HERMAN CRAIG KIRK	708-833-1900 708-822-3907	
HINES, INC.	NATE HINES	870-233-7925 480-710-7474	nate@hinesinc.com
INTERFACE FLOR	JOE FOLEY	312-961-7046	joe.foley@interface.com
JOHNSONITE	LOCAL DISTRIBUTOR		
LLUMAR	SCOTT CURRY LISA BOAZ	888-257-5470	
LUMENOMICS, LLC	MARTI HOFFER	206-327-9037	chaseteam@lumenomics.com
MADICO	LOCAL DISTRIBUTOR	---	---
MAPES ARCHITECTURAL CANOPIES	CHAD FREEBURGER	888-273-1132	cfreeberger@mapes.com
MATTHEWS PAINT	LOCAL DISTRIBUTOR	---	---
NICHIHA FIBER CEMENT	ADAM COSSICK	770-570-0011	chase@nichiha.com
NEVAMAR	LOCAL DISTRIBUTOR	---	---
CERTAINTEED WOOD CEILINGS & WALLS (NORTON INDUSTRIES, INC.	ALEXANDRA SCOTT	216-228-6650	chase@nichiha.com
PHOTOVOLTAIC SYSTEM (FUTURE)	CHRIS ROGGE	913-458-8110	RoggeC@bv.com
PIONEER MILLWORKS	JERED SLUSSER	800-951-9663	jered@pioneermillworks.com
PIONITE	LOCAL DISTRIBUTOR	---	---
PRINCIPLE USA	CHASE HEARING LOOP PROJECT MANAGER	865-692-4104	ChaseHearingLoop@principleglobal.com
PULP STUDIOS	ALEX ROSUL	216-227-1801	arosul@sbcglobal.neet
QMI SECURITY SOLUTIONS	KEVIN BECERRA	800-446-2500	kbecerra@qmiusa.com
ROLL-A-SHADE	DEANNA MCCOY	951-245-5077	Deanna.McCoy@RollAShade.com
SBEMCO	MARK TUCCI	800-468-0860 X:51	mtucci@mattingbydesign.com
SHERWIN-WILLIAMS	LOCAL DISTRIBUTOR	---	---
STEELCASE (EMPIRE OFFICE)	MARIBETH CAREY	212-607-5568	MCarey@EmpireOffice.com
STONE SOURCE	DAVID SELTZER	212-979-6400	DSELTZER@STONESOURCE.COM
TELLEREX	BRIAN LECHLITNER	888-395-0170	brian.lechlitner@tellerex.com
TELEPRESENCE (CHASE GTI)	TODD YORK	972-324-8100	todd.york@jpmorgan.com
USG	EDDIE LOPEZ	312-436-8007	HXLopez@usg.com
WASTE WISE PRODUCTS, INC	PAUL DECONINCK	877-680-8361	---
WEATHERMATIC	BRODIE BRUNER	972-926-2170	Brodie.Bruner@weathermatic.com
WILSONART	LOCAL DISTRIBUTOR	---	---

G.C. TO OBTAIN THE MOST UP-TO-DATE PROJECT SPECIFIC VENDOR LIST FROM THE CHASE PROJECT MANAGER.

2 / A3.3.1 FLOOR TRANSITION TYPES AND STAIR BULLNOSE PROFILES

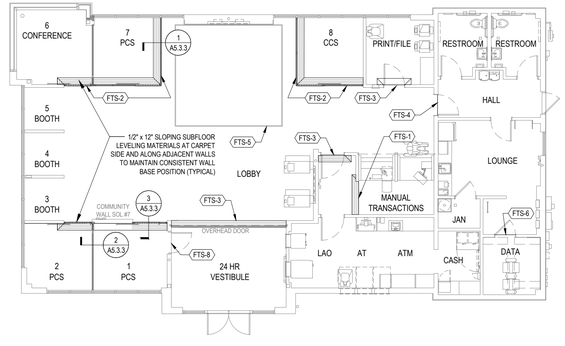
3" = 1'-0"





1 / A3.3.1 DEMOUNTABLE WALL FLOOR TRANSITIONS

3" = 1'-0"



FLOORING TRANSITION GUIDELINE
SAMPLE FLOORPLAN AND PROGRAM AREAS FOR REFERENCE

NOTE: NOT ALL ITEMS MAY BE USED IN THIS PROJECT.

CHASE
JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
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CHASE OVP#38200P368999

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St. Louis, MO 63109
314.843.4320
www.core-states.com
COA #: A-2014026908

ARCHITECT OF RECORD
STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT
ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

INTERIOR FINISH SCHEDULE
FLOOR TRANSITION TYPES & FINISHES SCHEDULE
VENDOR CONTACTS

SHEET NUMBER

A3.3.1

INT. FIN. MATERIALS SCHEDULE

PAINT		
PT-103	**CEILING PAINT**	
	MFR.	BENJAMIN MOORE
	PRODUCT	AURA WATERBORNE INTERIOR PAINT
	COLOR	CLOUD COVER #OC-25
	FINISH	EGGSHELL FINISH 524
	FIRE CLASSIFICATION	CLASS A
PT-311	**ACCENT PAINT - NAVY**	
	MFR.	BENJAMIN MOORE
	PRODUCT	ULTRA SPEC SCUFF-X
	PRODUCT NUMBER	OLD NAVY #2063-10
	FINISH	MATTE (484)
	FIRE CLASSIFICATION	CLASS A
PT-500	**GENERAL WALL / CEILING PAINT**	
	MFR.	BENJAMIN MOORE
	PRODUCT	AURA WATERBORNE INTERIOR PAINT
	COLOR	CLOUD WHITE #CC-40
	FINISH	EGGSHELL FINISH 524 (WALLS)
		SATIN FINISH 526 (DOORS & FRAMES)
	FIRE CLASSIFICATION	CLASS A
PT-501	**ACCENT WALL PAINT- GREY**	
	MFR.	BENJAMIN MOORE
	PRODUCT	AURA WATERBORNE INTERIOR PAINT
	COLOR	HEARTHSTONE #1601
	FINISH	EGGSHELL FINISH 524 (WALLS)
		SATIN FINISH 526 (DOORS & FRAMES)
	FIRE CLASSIFICATION	CLASS A

CSG-PT-104	**TYPICAL AV NICHE WALL PAINT**	
	MFR.	BENJAMIN MOORE
	PRODUCT	AURA WATERBORNE INTERIOR PAINT
	COLOR	JET BLACK #2120-10
	FINISH	FLAT FINISH
	FIRE CLASSIFICATION	CLASS A

WALL FINISHES		
WC-402	**WALLCOVERING AT ATM WALL (WALLCOVERING 1)**	
	MFR.	D.L. COUCH
	PRODUCT	RECORE 'BACCARAT'
	COLOR	BASALT #NA-4C-JPM501
	WIDTH	53" ROLLED MATERIAL
	FIRE CLASSIFICATION	CLASS A
FRP-1	**FIBERGLASS-REINFORCED PLASTIC PANELING**	
	MFR.	CRANE COMPOSITES
	PRODUCT	GLASBORD PIF
	FINISH	84 IVORY
	LOCATIONS	JANITOR CLOSET / LADDER ROOM
	FIRE CLASSIFICATION	CLASS C
WINDOW TREATMENTS		
WT-1	**MOTORIZED ROLLING SHADE (5% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	SHEER WEAVE 2000
	SHADE COLOR	WHITE PLATINUM P05
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-1 ALT	**MOTORIZED ROLLING SHADE (5% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	SHEER WEAVE 2000
	SHADE COLOR	WHITE PLATINUM P05
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY ROLL-A-SHADE, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-2	**MOTORIZED ROLLING SHADE (3% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	SHEER WEAVE 2410 P14
	SHADE COLOR	PEARL GREY / OYSTER
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-2 ALT	**MOTORIZED ROLLING SHADE (3% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	SHEER WEAVE 2410 P14
	SHADE COLOR	PEARL GREY / OYSTER
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY ROLL-A-SHADE, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-4	**FROSTED WINDOW FILM**	
	MFR.	LLUMAR
	PRODUCT	NRM PS2
	COLOR	FROSTED 69% TRANSMITTANCE
	USES	AT CLOSED VESTIBULE GLAZING ADJACENT TO BANKER CUBICLES

WT-5	**MANUAL ROLLING SHADE (5% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	SHEER WEAVE 2000
	SHADE COLOR	WHITE PLATINUM P05
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-5 ALT	**MANUAL ROLLING SHADE (5% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	SHEER WEAVE 2000
	SHADE COLOR	WHITE PLATINUM P05
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-6	**MANUAL ROLLING SHADE (3% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	SHEER WEAVE 2410 P14
	SHADE COLOR	PEARL GREY / OYSTER
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-6 ALT	**MANUAL ROLLING SHADE (3% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	SHEER WEAVE 2410 P14
	SHADE COLOR	PEARL GREY / OYSTER
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-7	**DOUBLE-ROLLER SHADE**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	MBOR
	FRONT SHADE	MATCH TYPICAL FABRIC WITHIN BRANCH, WT-1 OR WT-2
	BACK SHADE	INDIANA COATED GRAY (OPAQUE)
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
	USES	TYPICAL AT ALL CONFERENCE ROOM WINDOWS
WT-7 ALT	**DOUBLE-ROLLER SHADE**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	MBOR
	FRONT SHADE	MATCH TYPICAL FABRIC WITHIN BRANCH, WT-1 OR WT-2
	BACK SHADE	INDIANA COATED GRAY (OPAQUE)
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
	USES	TYPICAL AT ALL CONFERENCE ROOM WINDOWS
WT-8	**FIELD-APPLIED SPANDREL FILM**	
	VENDOR / INSTALLER	3M
	PRODUCT	SCOTCHCAL GRAPHIC FILM
	COLOR	3630-51, SILVER
	FURNISHED BY	GENERAL CONTRACTOR
	USES	RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY
	FIRE CLASSIFICATION	CLASS A
WT-20	**MOTORIZED ROLLING TELLER SCRIM (OPAQUE)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100
	SHADE COLOR	WHITE P-02
	ENCLOSURE COLOR	ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES
	EXPOSED HEM BAR	ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-20 ALT	**MOTORIZED ROLLING TELLER SCRIM (OPAQUE)**	
	VENDOR / INSTALLER	ROLL-A-SHADE
	PRODUCT	MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100
	SHADE COLOR	WHITE P-02
	ENCLOSURE COLOR	ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES
	EXPOSED HEM BAR	ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL
	NOTES	PRODUCT INSTALLED BY ROLL-A-SHADE, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-11	**SPANDREL GLAZING (SPECIAL- CASE USE ONLY)**	
	MFR.	VIRACON
	PRODUCT	VIRAPSAN
	COLOR	MEDIUM GRAY
	NOTES	LEAD FREE
		OPTION FOR FIELD APPLIED TREATMENT

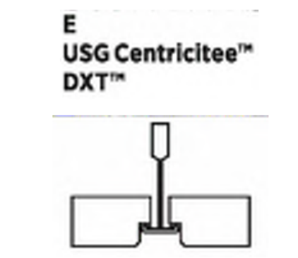
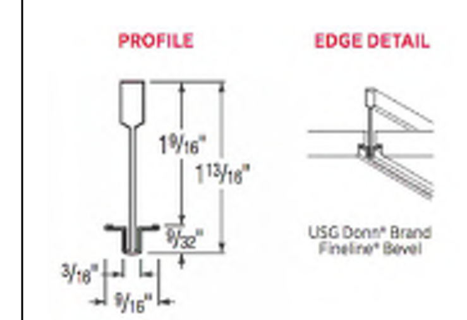
TRIM		
WB-402	**VINYL WALL BASE- STRAIGHT- AREAS WITH FLOORING**	
	MFR.	JOHNSONITE
	PRODUCT	TIGHTLOCK
	COLOR	20 CHARCOAL WG
	PROFILE	4 1/2" STRAIGHT (TOELESS)
WB-403	**VINYL WALL BASE- COVE- AREAS WITH EXPOSED SLAB**	
	MFR.	JOHNSONITE
	PRODUCT	TRADITIONAL WALL BASE
	COLOR	20 CHARCOAL WG
	PROFILE	4" COVE
WB-502	**WALL BASE - AT BOOTH ONLY**	
	MFR.	PIONEER MILLWORKS
	PRODUCT/COLOR	MODERN FARMHOUSE- CLEAN ASH
	PROFILE	4 1/4" X 5/8"
	NOTES	MATCHING 5/8" PERIMETER TRIM IN WIDTHS PER ELEVATIONS TO BE ORDERED THROUGH PIONEER MILLWORKS. SEE NOTE 1.

MILLWORK SURFACES		
SS-300	**SOLID SURFACE MATERIAL**	
	DESCRIPTION	1/2" ACRYLIC SOLID SURFACE WITH EASED EDGES
	MFR.	DUPONT CORIAN
	COLOR	SILVER BIRCH
	USES	WINDOW SILLS & MILLWORK SURFACES

PL-502	**MILLWORK LAMINATE**	
	DESCRIPTION	PLASTIC LAMINATE
	MFR.	WILSONART
	COLOR	NATURAL RECON 7996-38
	USES	MILLWORK, CHECK DESK
PL-503	**MILLWORK LAMINATE**	
	DESCRIPTION	PLASTIC LAMINATE
	MFR.	WILSONART
	COLOR	LECHE VISTA 4987K-07
	USES	BOH MILLWORK COUNTER SURFACE
WD-502	**WOOD ACCENT**	
	DESCRIPTION	ENGINEERED PLANK, RAKED PROFILE
	MFR.	PIONEER MILLWORKS
	PRODUCT	MODERN FARMHOUSE- CLEAN ASH
	SIZE	5 1/2" X 5/8", FCS MIX
	TEXTURE	RAKED
	FINISH	CLEAR, POLY CLASS A FIRE RETARDANT
	USES	BOOTH MILLWORK
	NOTES	MATCHING 5/8" PERIMETER TRIM IN WIDTHS PER ELEVATIONS, AND BOOTH BASE (WB-502) TO BE ORDERED THROUGH PIONEER MILLWORKS
WD-601	**VENEER PANELS**	
	MFR.	BROOKSIDE VENEERS
	PRODUCT	ALPIKORD PREFINISHED - CROSS GRAIN
	SPECIES	SLAVONY OAK, PLANK
	COLOR	10.84K ALPIKORD
	NOTES	APPLIED TO FEATURE DIGITAL WALL
		REFER TO FINISH PLAN AND ELEVATIONS

CARPET		
CPT-302	**WALK-OFF MAT**	
	MFR.	SBEMCO / MATTING BY DESIGN
	PRODUCT	ULTRA DRY PCR PET
	COLOR	PUMICE #620
	SIZE	PER PLAN
	BACKING	THERMAL BONDED, BLOWN PVC, ANTI-MICROBIAL PINK
	NOTES	LOOSE-LAID/NOT ADHERED
		RIB DIRECTION TO RUN PARALLEL TO ENTRY DOOR
	FIRE CLASSIFICATION	CLASS 1
CPT-320	**GENERAL CARPET**	
	MFR.	INTERFACE
	PRODUCT	HARMONIZE
	COLOR	GRAVEL 104043
	SIZE	25CM X 1M TILE (9.84" x 39.37")
	BACKING	GLASBAC
	PATTERN	ASHLAR
	FIRE CLASSIFICATION	CLASS 1
CPT-321	**MANUAL TRANSACTION AREA CARPET**	
	MFR.	INTERFACE
	PRODUCT	HARMONIZE
	COLOR	GRAVEL 104043
	SIZE	25CM X 1M TILE (9.84" x 39.37")
	BACKING	CUSHIONBAC PLUS (ANTI-FATIGUE CUSHION)
	PATTERN	ASHLAR
	FIRE CLASSIFICATION	CLASS 1
AREA RUGS		
LRAR -4	**FLOATING CARPET- NAVY**	
	MFR.	INTERFACE
	PRODUCT	HAPTIC
	COLOR	INDIGO
	SIZE	PER PLAN
	BACKING	GLASBAC
	EDGING	MFR.: JOHNSONITE PRODUCT # EG-XX-H COLOR: 40 BLACK B
	NOTES	EDGE BANDING/RUG KIT PROVIDED BY MANUFACTURER
	FIRE CLASSIFICATION	CLASS 1

TILE		
T-402	**RESTROOM WALL & FLOOR TILE/ LOUNGE**	
	MFR.	STONE SOURCE
	PRODUCT	CREOS
	COLOR	DORIAN
	FINISH	NATURAL FINISH
	SIZE	12" x 24" x 3/8"
	GROUT	CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMANCE GROUT #165 "DELOREAN GRAY"
	GROUT JOINT	1/8"
	NOTES	MATCHING TILE WALL BASE AVAILABLE FOR RESTROOMS
T-501	**GENERAL FLOOR TILE**	
	MFR.	STONE SOURCE
	PRODUCT	CREOS
	COLOR	DORIAN
	FINISH	NATURAL FINISH
	SIZE	30" X 30" x 3/8"
	GROUT	CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMANCE GROUT #165 "DELOREAN GRAY"
	GROUT JOINT	1/8"
MISCELLANEOUS FLOORING		
SC	**CONCRETE FLOOR PAINT**	
	MFR.	SHERWIN WILLIAMS
	PRODUCT	TREAD-PLEX 100% ACRYLIC WATER BASED FLOOR COATING
	COLOR	DECK GRAY
	FINISH	SEMI-GLOSS, SLIP-RESISTANT
	FIRE CLASSIFICATION	CLASS A
VCT-1	**VINYL COMPOSITION TILE**	
	DESCRIPTION	PLASTIC LAMINATE
	MFR	ARMSTRONG FLOORING - EXCELON SDT
	COLOR	ARMOR GRAY #51951
	USES	DATA ROOM FLOOR (WHERE NOTED)
	FIRE CLASSIFICATION	CLASS 1

ACOUSTIC CEILING TILE AND GRID		
ACT-2	**ACOUSTICAL CEILING (NON-CUSTOMER AREAS)**	
	MFR.	USG
	PRODUCT	MARS CLIMAPLUS HIGH-NRC (ITEM NO. 87100)
	COLOR	WHITE
	SIZE	24"x24"x7/8"
	EDGE	9/16" FINELINE BEVEL (FLB)
	GRID	CENTRICITEE DXT 9/16" EXPOSED TEE SYSTEM 
	GRID FINISH	FLAT WHITE
	FIRE CLASSIFICATION	CLASS A
ACT-4	**ACOUSTICAL CEILING (CUSTOMER AREAS)**	
	MFR.	USG
	PRODUCT	MARS HIGH-NRC LOGIX CLIMAPLUS PERFORMANCE FIELD AND CHANNEL PANELS
	COLOR	WHITE
	SIZE	48" x 48" x 1" FIELD PANELS (#80281) AND 4"x48"x1" CHANNEL PANELS (#80268)
	EDGE	9/16" FINELINE BEVEL (FLB)
	GRID	IDENTITEE DXI 9/16" TEE SYSTEM WITH 9/16" STANDARD PERIMETER MOLDING 
	GRID FINISH	FLAT WHITE
	FIRE CLASSIFICATION	CLASS A
NOTES		
1	INTUMESCENT FLAME RETARDANT: FIREKOTE 100 AS MANUFACTURED BY UNIVERSAL FIRE SHIELD, CLEAR FINISH	

REGIONAL WINDOW SHADE FABRICS		
MIDWEST REGION	**3% OPENNESS FACTOR**	**5% OPENNESS FACTOR**
ILLINOIS		X
KENTUCKY		X
MICHIGAN		X
MISSOURI		X
OHIO		X
WISCONSIN		X
W. VIRGINIA		X
NORTHEAST REGION	**3% OPENNESS FACTOR**	**5% OPENNESS FACTOR**
CONNECTICUT		X
NEW JERSEY		X
NEW YORK		X
SOUTH REGION	**3% OPENNESS FACTOR**	**5% OPENNESS FACTOR**
COLORADO		X
FLORIDA	X	
GEORGIA		X
LOUISIANA	X	
TEXAS	X	
WEST REGION	**3% OPENNESS FACTOR**	**5% OPENNESS FACTOR**
SOUTHERN ARIZONA	X	
NORTHERN ARIZONA		X
SOUTHERN CALIFORNIA	X	
NORTHERN CALIFORNIA		X
NEVADA	X	
OREGON		X
UTAH	X	
WASHINGTON		X

NOTE: NOT ALL FINISHES MAY BE USED IN THIS PROJECT.

CHASE

JP MORGAN CHASE, N.A.
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890 NE LANGSFORD RD
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CORESTATES, INC.
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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.XX.XX
PROTOTYPE:	**20.2**
DRAWN BY:	X.X.LASTNAME
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

INTERIOR FINISH MATERIAL
REGIONAL WINDOW SHADE FABRICS

SHEET NUMBER

A3.3.2

FURNITURE SCHEDULE

GROUP	OGL TAG	DESCRIPTION	VENDOR	VENDOR #	MANUFACTURER	MODEL	FINISH	FURNISHED BY: OWNER	FURNISHED BY: GC	FURNISHED BY: EQUIP. VENDOR	FURNISHED BY: FURN. VENDOR	INSTALLED BY: OWNER	INSTALLED BY: GC	INSTALLED BY: EQUIP. VENDOR	INSTALLED BY: FURN. VENDOR
FILES	2AF	30" 2-DRAWER LATERAL FILE	EMPIRE	2A1	STEELCASE	900 SERIES	MF-1				■				■
	2AP	15" PEDESTAL BBF	EMPIRE	2A1	STEELCASE	900 SERIES	MF-1				■				■
	2AW	30" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2A1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	2BF	36" 2-DRAWER LATERAL FILE	EMPIRE	2B1	STEELCASE	900 SERIES	MF-1				■				■
	2BP	15" PEDESTAL BBF	EMPIRE	2B1	STEELCASE	900 SERIES	MF-1				■				■
	2BW	36" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2B1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	2CF	42" 2-DRAWER LATERAL FILE	EMPIRE	2C1	STEELCASE	900 SERIES	MF-1				■				■
	2CP	15" PEDESTAL BBF	EMPIRE	2C1	STEELCASE	900 SERIES	MF-1				■				■
	2CW	42" 2-DRAWER LATERAL FILE W/ WOOD TOP	EMPIRE	2C1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	3A	30" 3-DRAWER LATERAL FILE	EMPIRE	3A1	STEELCASE	900 SERIES	MF-1				■				■
	3B	36" 3-DRAWER LATERAL FILE	EMPIRE	3B1	STEELCASE	900 SERIES	MF-1				■				■
	3C	42" 3-DRAWER LATERAL FILE	EMPIRE	3C1	STEELCASE	900 SERIES	MF-1				■				■
	5A	30" 5-DRAWER LATERAL FILE	EMPIRE	5A1	STEELCASE	900 SERIES	MF-1				■				■
	5B	36" 5-DRAWER LATERAL FILE	EMPIRE	5B1	STEELCASE	900 SERIES	MF-1				■				■
	5C	42" 5-DRAWER LATERAL FILE	EMPIRE	5C1	STEELCASE	900 SERIES	MF-1				■				■
LOUNGE	LC	5-TIER LOCKERS (15"D x 15"W x 72"H)	EMPIRE	FLC-11	PENCO	---	028 GRAY				■				■
	BT4-A	LOUNGE TABLE, 36" DIA.	EMPIRE	FT-14	STEELCASE	853600	CLEAR MAPLE				■				■
	BT4-B	LOUNGE TABLE, 48" DIA.	EMPIRE	FT-14 48	STEELCASE	853600	CLEAR MAPLE				■				■
	BT4-C	LOUNGE TABLE, 60x35	EMPIRE	FT-14 60X35	STEELCASE	853600	CLEAR MAPLE				■				■
	BS	LOUNGE CHAIR	EMPIRE	FS-14	TURNSTONE	TS37101	BLACK				■				■
	---	TALL KITCHEN TRASH RECEPTACLE	CHASE BP GROUP	---	---	---	---	■				■			
JANITOR'S CLOSET / GENERAL STORAGE	WS-1	WIRE SHELVING - HANG TRACK	---	---	CLOSETMAID	282400, 282600, 283600	WHITE		■				■		
		WIRE SHELVING - STANDARD	---	---	CLOSETMAID	280000, 280100, 280800, 281200, 280400	WHITE		■				■		
		WIRE SHELVING - 12" SHELF ("SUPERSLIDE")	---	---	CLOSETMAID	471400, 471700, 471800, 471900	WHITE		■				■		
		WIRE SHELVING - 12" BRACKET	---	---	CLOSETMAID	5285300	WHITE		■				■		
		WIRE SHELVING - 16" SHELF ("CLOSE MESH")	---	---	CLOSETMAID	139500, 3731800	WHITE		■				■		
		WIRE SHELVING - 16" BRACKET	---	---	CLOSETMAID	5285400	WHITE		■				■		
LIVING ROOM/ LOBBY	OT-20A	KIMBERLY TABLE- 36"DIA X 21"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20B	KIMBERLY TABLE- 30"DIA X 18"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20C	KIMBERLY TABLE- 25"DIA X 15"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20D	KIMBERLY TABLE- 20"DIA X 18"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-21	GINGKO WIRE CAFÉ TABLE- 30" DIA	EMPIRE		DAVIS	GINGKO	PLANKED OAK TOP, BLACK BASE								
	CH-322	ALWAYS LOUNGE CHAIR	EMPIRE		NAUGHTONE	ALWAYS	GEIGER: IOTA- NAVY, BLACK BASE				■				■
	CH-323	STYLEX SHARE SOFA- CURVED	EMPIRE		STYLEX	SHARE	DESIGNTEX: WOOLISH- OSPREY, BLACK MATTE LEGS				■				■
	CH-324	STYLEX SHARE SOFA- CURVED 1/2 UPHOLSTERED, 1/2 VINYL	EMPIRE		STYLEX	SHARE	BLACK METAL SLED FRAME, BACK OF SOFA UPHOLSTERY: DESIGNTEX: BARKCLOTH-CHARCOAL, SEAT OF SOFA UPHOLSTERY: DESIGNTEX: SORANO-KEYSTONE				■				■
	CH-325	DRT CHAIR - ALWAYS CHAIR	EMPIRE		NAUGHTONE	ALWAYS	DESIGNTEX: EVERYWHERE TEXTURE- STORM				■				■
	PF	WHIMSY POUF	EMPIRE		NATIONAL	WHIMSY	BLACK STRAP HANDLE, UPHOLSTERY: DESIGNTEX: SPANDAU-COGNAC				■				■
	FS-3	STOOL-CAFÉ HEIGHT	EMPIRE		GORDON	FORMULA	BLACK MATTE FRAME, UPHOLSTERY: DESIGNTEX: HYDE STONE				■				■
	TP	TELEPRESENCE SIDE TABLE- LIVING ROOM	GTI		SALAMANDER	CUSTOM	NATURAL OAK-NOT TEXTURED			■				■	
	DRT	DINING ROOM TABLE (4 OR 6 PERSON)	CBBE	34X72 34X96	CBBE	CUSTOM	STAIN TO MATCH: OAK				■				■
	CR-2 3619	COFFEE CREDENZA, 36x19	EMPIRE	36X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN				■				■
	CR-2 4819	COFFEE CREDENZA, 48x19	EMPIRE	48X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN				■				■
	CR-2 6019	COFFEE CREDENZA, 60x19	EMPIRE	60X19	STEELCASE	TBD	OAK, SILVER BIRCH CORIAN				■				■
MISC.	CT	CAFÉ TABLE- HIGH TOP	EMPIRE	30D, 36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE				■				■
	WT	WORK TABLE- DESK HEIGHT	EMPIRE	36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE				■				■
	BT-2	BOOTH TABLE WITH POWER MODULE	EMPIRE	57X30, 57X36, 57X42, 57X48	COALESSE	LAGUNITAS	WHITE TOP, BLACK BASE				■				■
	BB-1	BOOTH BENCH (QTY- 2 BENCHES)	CBBE		CBBE	CUSTOM	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO- KEYSTONE, BLACK FEET				■				■
	BB-2	DROP IN BOOTH	EMPIRE		NATIONAL	FRINGE	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO- KEYSTONE, BLACK FEET				■				■
	TD	TRAINING DESK	EMPIRE	48X30, 60X30, 72X30	COALESSE	AKIRA	ARCTIC WHITE SURFACE, BLACK BASE/CASTERS				■				■
	TC	TRAINING CHAIR	EMPIRE		COALESSE	KART	BLACK SHELL/SEAT, BLACK BASE/CASTERS, NESTING				■				■
MANUAL TRANSACTIONS	MST-3	MANUAL TRANSACTION MODULE - MST	EMPIRE	TC 1M	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	AST-3	MANUAL TRANSACTION MODULE - LEFT AST	EMPIRE	TC 1AL	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	AST-3	MANUAL TRANSACTION MODULE - RIGHT AST	EMPIRE	TC 1A	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	ACR1	ACRYLIC RISER (1 PER AST)	CBBE	ACR1	CBBE	ACR1	CLEAR		■				■		
CONFERENCE	D-401D	CONF. TABLE WITH X BASE (72X36)	EMPIRE	72X36	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK 'X' BASE				■				■
	D-401E	CONF. TABLE WITH X BASE(84X36)	EMPIRE	84X36	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK 'X' BASE				■				■
	D-401F	CONF. TABLE WITH X BASE (96X48)	EMPIRE	96X48	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK 'X' BASE				■				■
	CC5	CONF CREDENZA W/ WOOD TOP	EMPIRE	CCREDDW	STEELCASE	---	QUARTER CUT OAK COMPOSITE				■				■
	CC6	CONF CREDENZA W/ CORIAN TOP	EMPIRE	CCREDPWC/CCREDDWC	STEELCASE	---	QUARTER CUT OAK COMPOSITE, SILVER BIRCH CORIAN				■				■
PRIVATE CONSULTATION SPACE	D-400A / DB-400	BANKER DESK, WOOD TOP, X BASE, (36R)	EMPIRE	36DIA	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401A / DB-400	BANKER DESK, WOOD TOP, X BASE, (42R)	EMPIRE	42DIA	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401B / DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (54X36)	EMPIRE	54X36	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401 C/ DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (60x36)	EMPIRE	60X36	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	HAD-2	OLOGY HEIGHT ADJUSTABLE DESK	EMPIRE		STEELCASE	OLOGY	QUARTER CUT OAK COMPOSITE TOP, BLACK ADJUSTABLE BASE				■				■
	WPD-6A	BANKER DESK PEDESTAL FILE- 18"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-6B	BANKER DESK PEDESTAL FILE- 30"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-7A	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE- 54"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-7B	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE- 48"	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-8	IWS TALL PEDESTAL FILE	EMPIRE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
DESK, CONFERENCE AND GUEST CHAIRS	DS	BANKER DESK AND LAO CHAIR	EMPIRE	FS-11T	STEELCASE	THINK	BLACK, NON-NESTING, ADJUSTABLE ARMS				■				■
	CH-311	BINDU CONFERENCE CHAIR- LOW BACK ON CASTERS	EMPIRE		COALESSE	BINDU	DESIGNTEX: BARK CLOTH-DARK CHARCOAL, BLACK BASE ON CASTERS				■				■
SDB	CS-3	SDB CARREL / VIEWING ROOM	EMPIRE	TRADCARREL-C	STEELCASE	CARREL	QUARTER CUT OAK COMPOSITE				■				■
	CH-320	SDB ARMLESS CHAIR	EMPIRE		STEELCASE	FORMULA	DESIGNTEX: BARKCLOTH-DARK CHARCOAL, BLACK SLED BASE				■				■

1

NOTE: NOT ALL EQUIPMENT MAY BE IN THE SCOPE OF THIS PROJECT.

CHASE

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.SANCHEZ
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

FURNITURE SCHEDULE

SHEET NUMBER

A3.4.1

BANK EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT (NOTE 3)	FINISH	WEIGHT (NOTE 1)	ELECTRICAL REQUIREMENTS	FURNISHED BY: OWNER	FURNISHED BY: GC	FURNISHED BY: ATM VENDOR	FURNISHED BY: SIGNAGE VENDOR	FURNISHED BY: BANK EQUIP. VENDOR	FURNISHED BY: FURN VENDOR	INSTALLED BY: OWNER	INSTALLED BY: GC	INSTALLED BY: ATM RIGGER	INSTALLED BY: SIGNAGE VENDOR	INSTALLED BY: BANK EQUIP. VENDOR	INSTALLED BY: FURN VENDOR	NOTES
BE-01A	ATM, WALK-UP, EXTERIOR, THROUGH-WALL	NCR	2045	---	1929 LB	120V / 10A DEDICATED			■						■				
		HYOSUNG	MX 7800 TR	---	1522 LB	120V / 20A DEDICATED													
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4	---	NA	120V / 3A				■						■			2
BE-01B	ATM, WALK-UP, INTERIOR, THROUGH-WALL	NCR	2045	---	1929 LB	120V / 10A DEDICATED			■						■				
		HYOSUNG	MX 7800 TR	---	1522 LB	120V / 20A DEDICATED													
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4	---	NA	120V / 3A				■						■			2
BE-02A	ATM, DRIVE-UP, ISLAND	NCR	2043	---	2194 LB	120V / 30A DEDICATED			■						■				
		HYOSUNG	MX 7800 IR	---	1918 LB	120V / 30A DEDICATED			■						■				
BE-02B	ATM, DRIVE-UP, THROUGH-WALL	NCR	6684	---	1984 LB	120V / 10A DEDICATED			■						■				
		HYOSUNG	MX 7800 DR	---	1852 LB	120V / 20A DEDICATED			■						■				
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4-TP	---	NA	120V / 3A				■						■			2
BE-03	APRON CASE	DIEBOLD	AC-225-SX + AC-1-H + M-7-UD	BLACK	NA	NONE					■						■		
		HAMILTON	HSKS103	BLACK	NA	NONE													
BE-04A	ACCESSIBLE TELLER PEDESTAL	DIEBOLD	SD-3-C-SL	BLACK	NA	NONE					■						■		
		HAMILTON	S-604	BLACK	NA	NONE													
BE-04B	ACCESSIBLE TELLER PEDESTAL WITH LOCKER	DIEBOLD	SD-3-LL/RL	BLACK	NA	NONE					■						■		
		HAMILTON	604	BLACK	NA	NONE													
BE-05	STANDARD TELLER PEDESTAL	DIEBOLD	SU-4-2C	BLACK	NA	NONE					■						■		
		HAMILTON	S-205	BLACK	NA	NONE													
BE-06	STANDARD TELLER PEDESTAL WITH LOCKERS	DIEBOLD	SU-4-L2L/R2L	BLACK	NA	NONE					■						■		
		HAMILTON	S-207	BLACK	NA	NONE													
BE-07	TELLER BRG INTERCOM	PRINCIPLE USA	STS	S.S. / ALUM.	NA	120V / 1.6A	■						■						
BE-08	COMBO ATM / AHD	NCR	5285	---	2853 LB	120V / 10A				■					■				4
BE-09	NOT USED	---	---	---	---	---													
BE-10	AFTER HOURS DEPOSITORY	DIEBOLD	30901 TL-15	S.S. / BLACK	1495 LB	120V / 4A					■						■		4
		HAMILTON	14-126 L/R	S.S. / TAUPE	1886 LB	120V / 4A													4
BE-11	VACUUM AIR TUBE	DIELBOLD	VAT 30 GX 89G- 13	---	---	120V / 20 A DEDICATED					■						■		
		DIEBOLD	42 - 15163	---	---	120V / 20 A DEDICATED					■						■		
BE-12	CASH RECYCLER	HYOSUNG	MS500	---	970 LB	120V / 12 A DEDICATED			■				■		■				
		GLORY	RBG-100	---	550 LB	120 V / 6A DEDICATED			■						■				
	COIN DISPENSER	TELEQUIP	T-FLEX (DUAL CUPS)	---	12 LB	120V / 4A			HYOSUNG						HYOSUNG				
		GLORY	INSTACHANGE	---	10 LB	120V 1A			GLORY						GLORY				
BE-13	MAIN CASH CHEST (FULL-HEIGHT)	DIEBOLD	271-95 + 20530 + 20531 + (2) 20532 + (12) P-1500-CTK	BLACK	2922 LB	NONE					■						■		4
		HAMILTON	14-123 L/R + (12) (HSCT310 + HSCT211 + HSCT303)	BLACK	3545 LB	NONE					■						■		4, 5
BE-13A	MAIN CASH CHEST (HALF-HEIGHT)	DIEBOLD	271-80 + 20531 + 20532 + (6) P-1500-CTK	BLACK	1848 LB	NONE					■						■		4
		HAMILTON	14-127 L/R + (6) (HSCT310 + HSCT211 + HSCT303)	BLACK	2444 LB	NONE					■						■		4, 5
BE-13B	MAIN CASH CHEST (HALF-HEIGHT - EVERYDAY EXPRESS)	DIEBOLD	271-80 + 20531 + 20536 + 40537 + 40534	BLACK	1580 LB	NONE					■						■		4
		HAMILTON	18-029 L/R	BLACK	2078 LB	NONE					■						■		4, 5
BE-14	SAFE DEPOSIT CHEST WITH BOXES	DIEBOLD	478-98	BLACK	4739 LB MAX.	NONE					■						■		4, 6, 7, 12
		HAMILTON (ALL 3X5)	14-124 L/R	BLACK	4870 LB	NONE													
		HAMILTON (MIXED)	14-125 L/R	BLACK	4430 LB	NONE													
BE-15	ATM, WALK-UP, LOBBY (V2.5.5)	HYOSUNG	MX 8700 QT	---	2094 LB	120V / 12A DEDICATED			■						■				10, 14
BE-15A	ATM, WALK-UP, LOBBY (V3.0)	HYOSUNG	MX 8200 QT	---	1432 LB	120V / 12A DEDICATED			■						■				13, 14
	WALL POWER TRANSITION BOX	CBBE	CUSTOM	BLACK	NA	NONE						■						■	13
BE-15B	WALK UP FREESTANDING MICRO ATM	HYOSUNG	MX 8100 QTN	---	1050 LB (fully loaded)	120V / 12A DEDICATED			■						■				13, 14
	WALL POWER TRANSITION BOX	CBBE	CUSTOM	BLACK	NA	NONE						■						■	13
BE-16	MICRO ATM KIOSK	HYOSUNG	CUSTOM	VARIES	---	---				■						■			
BE-17	MODULAR VAULT	DIEBOLD	CLASS 2 MODULAR 6-SIDE	NA	PANELS 123 LB/SF	NONE					■						■		11
		HAMILTON	TBD	NA	TBD	NONE													
BE-18	VAULT DOOR WITH DAY GATE	DIEBOLD	TITAN + 223-80 DAY GATE	S.S., ALUM. + GLASS	5250 LB	120V / 20A					■						■		
		HAMILTON	TBD	S.S., ALUM. + GLASS	TBD	TBD													
BE-19	VAULT SDB NESTS	DIEBOLD	LM SERIES	S.S.	1092 LB MAX. PER STACK	NA					■						■		6, 8
		HAMILTON	TBD	TBD	TBD	TBD													
BE-20	ATM V3.0 SIDE CAR	HYOSUNG	MX 8200 QT ACCESSORY UNIT	---	---	---			■						■				
BE-21	NOT USED	---	---	---	---	---													
BE-22	TELLER LINE SCANNER	CTS ELECTRONICS	LS150	NA	NA	120V / 2A	■						■						
BE-23	TELLER LINE RECEIPT PRINTER	BANKJET	1500	NA	NA	120V	■						■						
BE-24	NOT USED	---	---	---	---	---													
BE-25	UNDERCOUNTER CASH CHEST ('DAY SAFE')	DIEBOLD	271-30	BLACK	823 lbs	NONE					■						■		4
		HAMILTON	14-130 L/R	BLACK	1157 LB														
BE-25A	UNDERCOUNTER CASH CHEST ('SMALL CASH CHEST')	DIEBOLD	271-30 + (2) 20536 + (4) P-1500-CTK	BLACK	905 LB	NONE					■						■		4, 9
		HAMILTON	14-129 L/R + (3) (HSCT310 + HSCT211 + HSCT303)	BLACK	1278 LB	NONE					■						■		4, 5, 9
BE-25B	UNDERCOUNTER CASH CHEST (EVERYDAY EXPRESS BRANCHES ONLY)	DIEBOLD	DXE TL-15 11H X 17W X 20D	BLACK	267 LB	NONE					■						■		4
		HAMILTON	DEA TL-15 SMALLEST 11H X 17W X 20D	BLACK	387 LB	NONE					■						■		4
BE-26	CURRENCY COUNTER	CUMMINS	JETSCAN	NA	NA	120V / 1A	■						■						
BE-27	TELLER PIN PAD	INGENICO	iPP320	BLACK	9.41 oz	NA- POWERED VIA USB	■						■						

NOTES

1	ALL EQUIPMENT WEIGHTS ARE LISTED AS EMPTY.
2	B.O. SURROUND 7 1/4" AFF AT NCR UNIT, 12" AFF AT HYOSUNG UNIT.
3	MODEL NUMBERS ARE PROVIDED TO REFERENCE PRODUCT CUT SHEETS FOR SPACE PLANNING PURPOSES ONLY. PRIOR TO ORDERING EQUIPMENT, VERIFY MAKE / MODEL W/ CHASE BRANCH PLANNING MANAGER.
4	VENDOR TO INCLUDE INTERNAL CABLE DOOR STOP FOR FIELD-ADJUSTEMENT BY INSTALLER TO STOP DOOR AS INDICATED IN PLAN.
5	INCLUDES CHEST MANUFACTURER'S LOCKERS.
6	INTERNAL BOX CONFIGURATION TO BE DETERMINED BY CHASE BRANCH PLANNING.
7	PROVIDE AMERICAN SECURITY PRODUCT CO. ESL20 DAY LOCK AT ALL SDB CHESTS IN ROOMS WITH VIEWING CARRELS.
8	PROVIDE MANUFACTURER'S KEY TRAYS AND MATCHING METAL CEILING AND WALL CLOSURE PANELS AS INDICATED IN DRAWINGS.
9	FOR USE BY EXCEPTION ONLY AT ROOMS WITH ACCESS TELLER AND NO MAIN CASH SAFE. INCLUDES INTERNAL TELLER CASH DRAWER LOCKERS.
10	INCLUDES MANUFACTURER'S ENCLOSURE, FLOOR POWER TRANSITION BOX, AND SIGN PANEL POWERED BY ATM.
11	6-SIDED, CLASS II, 9'-0" CLEAR INTERIOR HEIGHT.
12	PROVIDE DAY LOCK AT CHESTS LOCATED IN THE SAME ROOM AS A VIEWING CARREL.
13	PROVIDE WALL POWER TRANSITION BOX AT WALL INSTALLATIONS ONLY. FOR FREESTANDING INSTALLATIONS PROVIDE MANUFACTURER'S POWER TRANSITION BOX.
14	ATM VENDOR TO PROVIDE AND INSTALL SCREEN LOCKING BRACKETS TO MAINTAIN SCREEN POSITION WITH ALL OPERABLE PARTS WITHIN ACCESSIBLE REACH RANGE.

<u>NOTE:</u> NOT ALL EQUIPMENT USED IN THE SCOPE OF THIS PROJECT.

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

BANK EQUIPMENT SCHEDULE

SHEET NUMBER

A3.4.2

OFFICE EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	FURNISHED BY OWNER	FURNISHED BY GC	FURNISHED BY EQUIP VENDOR	FURNISHED BY FURN VENDOR	INSTALLED BY OWNER	INSTALLED BY GC	INSTALLED BY EQUIP VENDOR	INSTALLED BY FURN VENDOR	NOTES
OE-01-BW	MULTI-FUNCTIONAL DEVICE (MFD) - B/W	LEXMARK	MX710	PUTTY	■				■				
	SWIVEL BASE	LEXMARK	3052765	BLACK	■				■				
	5.1" SPACER	LEXMARK	30G0854	PUTTY	■				■				
	550 SHEET DRAWER	LEXMARK	30G0802	PUTTY	■				■				
OE-01-C	MULTI-FUNCTIONAL DEVICE (MFD) - COLOR	LEXMARK	656DTE	PUTTY	■				■				
	SWIVEL BASE	LEXMARK	3052765	BLACK	■				■				
	5.1" SPACER	LEXMARK	30G0854	PUTTY	■				■				
	550 SHEET DRAWER	LEXMARK	30G0802	PUTTY	■				■				
OE-02	NOT USED												
OE-03	MICR 9720 PRINTER	SOURCE TECHNOLOGIES	R0006912	—	■				■				
	MICR 9720 LOCKING DRAWER	SOURCE TECHNOLOGIES	R0007399	—	■				■				
	MICR 9720 UNDERCOUNTER STAND	BRETFORD	C15 \ A2188209	BLACK	■				■				
OE-04	ADA MONITOR & KEYBOARD STAND	HUMANSCALE	QSLBHD	BLACK				■				■	
OE-05	KEYBOARD TRAY	HUMANSCALE	---	BLACK				■				■	
OE-06	23" MONITOR AND STAND	TBD	TBD	WHITE	■				■				ALL MONITORS EXCEPT AST
	PRIVACY SCREEN FILTER	VARIES	VARIES	—	■				■				
	SOUND BAR	TBD	TBD	WHITE	■				■				
OE-07	TELLER CPU	HP	N8P49US#ABA	BLACK	■				■				
OE-08	WIRED KEYBOARD & MOUSE	LOGITECH	MK520	WHITE	■				■				
OE-09	NOT USED												
OE-10	NOT USED												
OE-11	ACCESS TELLER MONITOR STAND	HUMANSCALE	QSBH30FNN	WHITE									
OE-12	DESK MONITOR ARM	HUMANSCALE	MFLEX	GRAY				■				■	POLE-MOUNT THROUGH GROMMET
OE-13	NOT USED												
OE-14	23" MONITOR LESS STAND	TBD	TBD	WHITE	■				■				AST MONITOR
	PRIVACY SCREEN FILTER	VARIES	VARIES	—	■				■				
	SOUND BAR	TBD	TBD	WHITE	■				■				
OE-15	VDI TERMINAL	HP	T630	BLACK	■				■				
	VDI TERMINAL ADAPTER			—	■				■				
OE-16	WIRELESS KEYBOARD AND MOUSE	LOGITECH	K520, M310, Unifying Receiver	BLACK	■				■				
OE-17	NOT USED												
OE-18	CPU/VDI UNDER SURFACE MOUNT	HUMANSCALE	CPU200	WHITE BR ALUM.				■				■	UNDER SURFACE MOUNT WITH 360 DEGREE SWIVEL CAPABILITY
OE-19	NOT USED												
OE-20	NOT USED												
OE-21	NOT USED												
OE-22	NOT USED												
OE-23	NOT USED												
OE-24A	NOT USED												
OE-24B	NOT USED												
OE-24C	NOT USED												
OE-25	NOT USED												
OE-26	NOT USED												
OE-27	PLATFORM STATION WIRED 10-KEY KEYPAD	CONTROL INC	A0674838	BLACK	■					■			
OE-28	PHONE	CISCO	IP 7962	BLACK	■					■			
OE-28-V	PHONE - VIDEO PHONE	CISCO	CP-8865-K9	CHARCOAL	■					■			
OE-29	CUSTOMER UNIVERSAL CHARGING STATION	CHARGE TECH	CHW2	BLACK	■					■			

MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	FURNISHED BY OWNER	FURNISHED BY GC	FURNISHED BY EQUIP VENDOR	FURNISHED BY FURN VENDOR	INSTALLED BY OWNER	INSTALLED BY GC	INSTALLED BY EQUIP VENDOR	INSTALLED BY FURN VENDOR	NOTES
ME-01	SHRED BIN	---	---	---	■				■				FURNISHED & INSTALLED BY CHASE FACILITIES GROUP
ME-02	DUAL BAND QUEUE ROPES AND STANCHIONS	LAWRENCE METALS	TENSABARRIER	BLACK		■				■			REFER TO FLOOR PLANS FOR QUANTITIES
	POST WITH BELT	LAWRENCE METALS	889 DUAL	BLACK		■				■			
	POST WITHOUT BELT	LAWRENCE METALS	889 T2U-33-RCV	BLACK		■				■			
ME-03	BRUSH EXTRUSION KIT	DOUG MOCKETT	BRKIT1	BLACK		■		■		■		■	FURNITURE OR MILLWORK VENDOR TO COORDINATE WITH OWNER FOR REQUIRED OPENING
ME-04	HALF ROUND WASTE RECEPTACLE	RUBBERMAID COMMERCIAL	FGSO8SSSPL	STAINLESS STEEL		■				■			(1) COUNT - IN MAIN LOBBY
ME-05	EXTERIOR WASTE RECEPTACLE	RUBBERMAID	FGS3ETBKPL	BLACK		■				■			
	ANCHOR KIT	HILTI	3.3.8 KWIK Bolt 3	N/A		■				■			
ME-06	MUSIC PLAYER AND SPEAKERS	MOOD MEDIA	PROFUSION IS	BLACK	■				■				
ME-08	DUAL-CONTROL KEY BOX	BLOCK AND COMPANY	STEELMASTER #201SP8801	GRAY	■					■			INCLUDES KABA LOCK. G.C. TO PROVIDE SOLID WOOD BLOCKING AS REQUIRED.
ME-09A	BULLETIN BOARD	QUARTET	QRT 303	---		■				■			AVAILABLE FROM OFFICE DEPOT/MAX. 'OR EQUAL' SUBSTITUTIONS PERMITTED BASED ON LOCAL AVAILABILITY- 36"W x 24"H NATURAL CORK WITH OAK FRAME.
ME-09B	DRY ERASE BOARD	QUARTET	EMA 203	---		■				■			AVAILABLE FROM OFFICE DEPOT/MAX. 'OR EQUAL' SUBSTITUTIONS PERMITTED BASED ON LOCAL AVAILABILITY- 36"W x 24"H ALUM. FRAME WITH PEN LEDGE AND WHITE MELAMINE SURFACE.
ME-09C	MAGNETIC STRIP BULLETIN BOARD	THREE BY THREE	31189 (8 REQUIRED)	NAVY BLUE		■				■			EIGHT 28" X 2.5" PAINTED METAL STRIPS WITH INCLUDED SCREWS AND MAGNETS ADHERED TO WALL WITH 3M SCOTCH OR EQUAL PERMANENT DOUBLE-SIDED FOAM MOUNTING TAPE.
ME-11	TABLET CHARGING CABINET	KENSINGTON	K67862AM	BLACK	■				■				PROVIDE AND INSTALLED BY CHASE GTI.
ME-12	RECESSED ATM KEY BOX	TELLEREX	RECESSED TRACCESS BOX	BLACK		■				■			

OFFICE EQUIPMENT BY PROGRAMMATIC ELEMENT

PROGRAMMATIC ELEMENT ABBREV.	PROGRAMMATIC ELEMENT DESCRIPTION	TAG	QTY.	DESCRIPTION
MST PST AT	MERCHANT SERVICES TELLER, PERSONAL SERVICES TELLER, OR ACCESS TELLER	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
AST	ACCESSIBLE SERVICES TELLER	OE-04	1	ADA MONITOR & KEYBOARD STAND
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
		OE-14	1	23" MONITOR - LESS STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
LAO	LEAD ASSOCIATE OPERATIONS	OE-05	1	KEYBOARD TRAY
		OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
DRT	DINING ROOM TABLE	OE-29	1	CUSTOMER UNIVERSAL CHARGING STATION
	BOOTH	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-18	1	CPU/VDI UNDER SURFACE MOUNT
		OE-28	1	PHONE
		OE-29	1	CUSTOMER UNIVERSAL CHARGING STATION
CCS	CASUAL CONSULTATION SPACE	OE-06	1	23" MONITOR
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE
PCS	PRIVATE CONSULTATION SPACE	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE
	CONFERENCE ROOM MARKET CONFERENCE SPACE	OE-06	1	23" MONITOR
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM
		OE-15	1	VDI TERMINAL 3
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE
IWS	INDIVIDUAL WORK SPACE	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE

NOTES

1. MONITOR ARM PROVIDED AND INSTALLED BY FURNITURE VENDOR. ALL OTHER SCHEDULED EQUIPMENT PROVIDED BY CHASE GLOBAL TECHNOLOGY INFRASTRUCTURE (GTI).
2. IF SPACE IS BEING DESIGNED TO ACCOMMODATE A VIDEO ADVISOR, MANAGING DIRECTOR OR REGIONAL DIRECTOR, ADD A/V SOLUTION 4
3. IF TABLE IS CENTERED IN ROOM AND FLOOR POWER/ DATA CONNECTIONS ARE PROVIDED. ADD CPU/VDI UNDER-SURFACE MOUNT [OE-18]
4. ONE OFFICE TO RECEIVE 2-ARM MONITOR STAND, LOCATION TO BE DETERMINED BY BRANCH PLANNING MANAGER DURING TURNOVER.

NOTE: NOT ALL EQUIPMENT USED IN THE SCOPE OF THIS PROJECT.

CHASE

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890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

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6500 Chippewa Street Suite 200
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314.843.4320
www.core-states.com
COA #: A-2014026908
ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

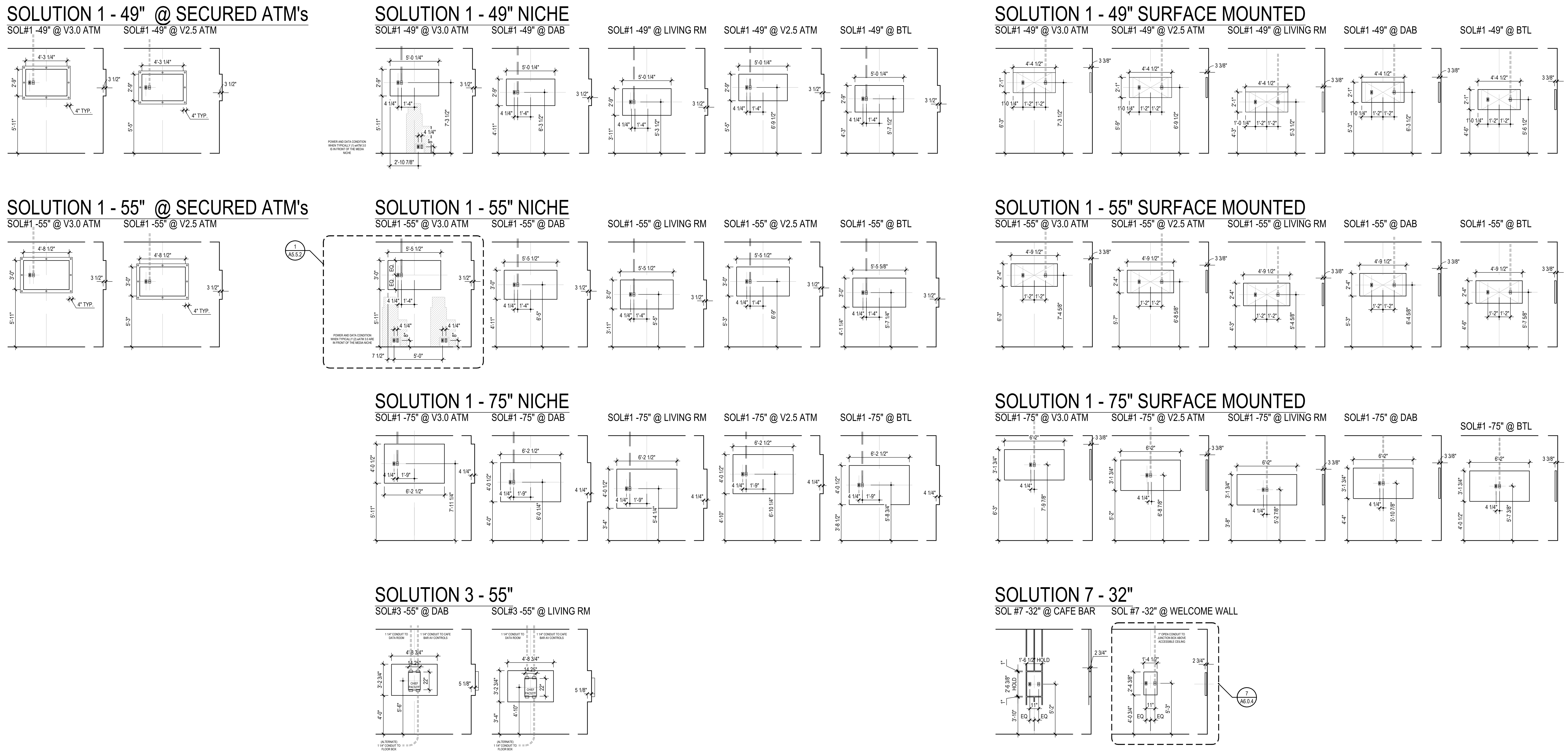
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

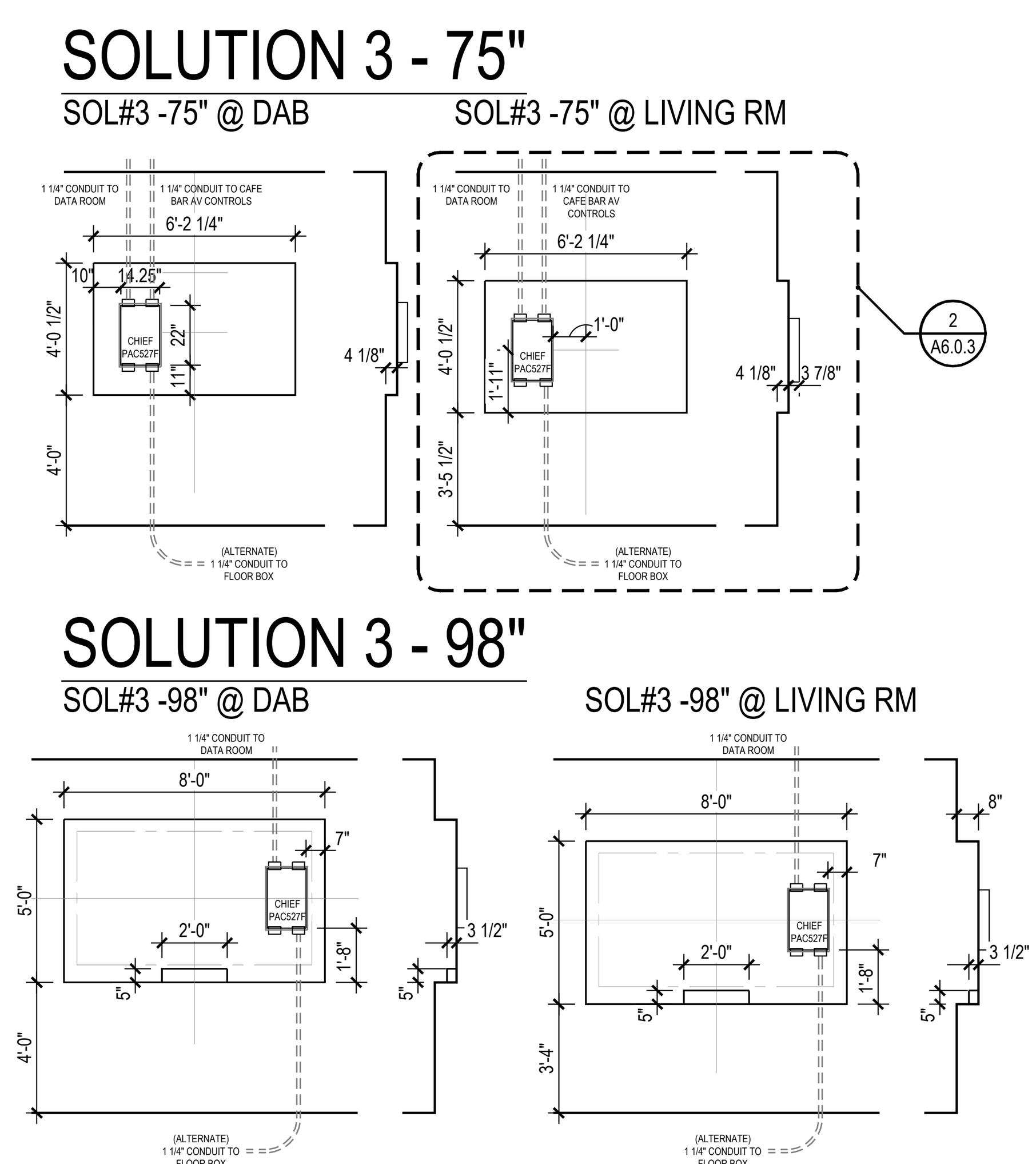
SHEET TITLE

OFFICE EQUIPMENT BY PROGRAMMATIC ELEMENT
OFFICE EQUIPMENT SCHEDULE
MISCELLANEOUS EQUIPMENT SCHEDULE

SHEET NUMBER

A3.4.3





AUDIO/ VISUAL NOTES	
A	GC TO VERIFY "SOLUTION" TYPE WITH FURNITURE & EQUIPMENT PLAN; SEE A1.1.4 SHEET(S). IF SOLUTION IS NOT INDICATED ON THAT DRAWING GC IS TO NOTIFY ARCHITECT.
B	ALL DIMENSIONS SHOWN FOR NICHE OPENINGS ARE FROM FINISH TO FINISH. GC IS RESPONSIBLE FOR LOCATING WALL FRAMING TO ACCOUNT FOR FINISH MATERIAL & SUBSTRATE TYPE AS NOTED IN DRAWINGS; SEE A1.1.1, A1.1.4, A3.1.0, A6 SERIES (FOR INTERIOR ELEVATIONS), & A6.03 FOR MEDIA WALL DETAILS.
C	IF THERE IS A CONFLICT WITH DIMENSIONS SHOWN ON CONSTRUCTION FLOOR PLAN FOR NICHE SIZE, THE NICHE DIMENSIONS SHOWN ON THIS SHEET ARE TO SUPERCEDE. NOTIFY ARCHITECT IF CONFLICT OCCURS.
D	GC TO CONFIRM FINISHED OPENING FOR DISPLAY MONITOR/ SCREEN IS CORRECT SIZE WITH CHASE A/V VENDOR PRIOR TO NICHE CONSTRUCTION.
E	GC TO CONTACT ARCHITECT IMMEDIATELY IF VERTICAL LOCATION NICHE CONFLICTS WITH CEILING HEIGHT. REFER TO A1.2.1 SHEET(s) FOR REFLECTED CEILING PLAN.

1 A3.4.5 AUDIO/ VISUAL FINISHED OPENINGS GUIDE
3/16" = 1'-0"

CHASE
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DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE
AUDIO / VIDEO FINISHED OPENINGS

SHEET NUMBER
A3.4.5

APPLIANCE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	REQUIREMENTS	FINISH	FURNISHED BY		INSTALLED BY		NOTES
						OWNER	GC	OWNER	GC	
A-01	2.2 CU. FT. MICROWAVE	GE	PES7227DLBB	ADA-COMPLIANT	BLACK		■		■	ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED
A-02	NOT USED	---	---	---	---	---	---	---	---	---
A-03	FULL-SIZE REFRIGERATOR	FRIGIDAIRE	FFHT1814QB	ADA-COMPLIANT ENERGY STAR	BLACK		■		■	ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED
		WHIRLPOOL	WRT541SZDB							
A-04	NOT USED									
A-05	NOT USED	---	---	---	---	---	---	---	---	---
A-06	COFFEE MAKER	BY OWNER	---		---	■		■		G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER
A-07	WATER PURIFIER	BY OWNER	---		---	■		■		G. C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER

RESTROOM ACCESSORIES SCHEDULE

TAG	DESCRIPTION	MFR.	MODEL	FINISH	NOTES
TA-01	TOILET TISSUE DISPENSER	BOBRICK	B-2888	S.S.	1, 6
TA-02	UNIVERSAL C-FOLD / MULTI-FOLD PAPER TOWEL DISPENSER	BOBRICK	B-262	S.S.	1
TA-03	WASTE RECEPTACLE	BOBRICK	B-279	S.S.	6
TA-04	GRAB BARS	BOBRICK	B-5806 SERIES	S.S.	6
TA-05	MIRROR	BOBRICK	B-165 2448	S.S.	6
TA-06	FOAM SOAP DISPENSER: LAV.-MOUNT, LONG SHANK, 4" SPOUT	BOBRICK	B-823	POL. S.S.	1, 2, 6
TA-06 (OPT.)	LIQUID SOAP DISPENSER: LAV.-MOUNT, LONG SHANK, 4" SPOUT	BOBRICK	B-822	POL. S.S.	1, 2, 6
TA-07	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	S.S.	6
TA-08	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	S.S.	6
TA-09	SHELF	GAMCO	B-7816	S.S.	4, 6
TA-10	BABY CHANGING STATION (ONLY WHERE CODE REQUIRED)	GAMCO	BCS-2	GREY HOPE	4, 5, 6

NOTES:

1. G.C. TO VERIFY OPTION PREFERENCE WITH OWNER'S LOCAL FACILITIES MANAGER.
2. FIELD-CUT SOAP DISPENSER SHANK TO MINIMIZE RESERVOIR EXPOSURE.
3. AoR TO COORDINATE DISPENSER POSITION TO MAINTAIN ACCESSIBLE REACH RANGE AND PATH TO DISPENSER AND ADJACENT FIXTURES
4. AVAILABLE FROM BOBRICK.
5. BABY CHANGING STATION TO BE PROVIDED ONLY WHEN REQUIRED BY A.H.J.. MOUNT FOR ACCESSIBILITY COMPLIANCE, AT HEIGHT OF 27" A.F.F., HANDLE < 44" AFF.
6. PROVIDE IN ALL RESTROOMS, MEN / WOMEN / UNISEX.

ELECTRICAL DEVICE FINISHES

LOCATION		LUTRON	LEVITON, LEGRAND
SURFACE	FINISH		
CEILINGS AND SOFFIT FACES		WHITE	WHITE
TYPICAL WALL		WHITE	WHITE
COMMUNITY WALL		RECESSED BLACK	RECESSED BLACK

NOTE: NOT ALL ITEMS MAY BE INCLUDED IN THE SCOPE OF THIS PROJECT.

CHASE

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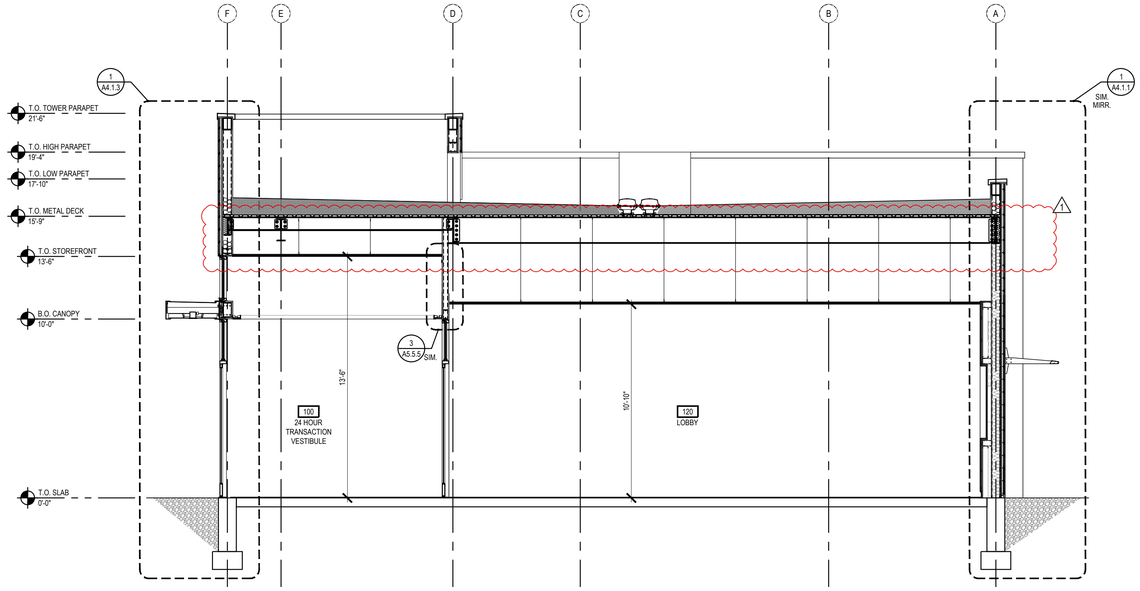
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

APPLIANCE SCHEDULE
RESTROOM ACCESSORIES
ELECTRICAL DEVICES FINISHES

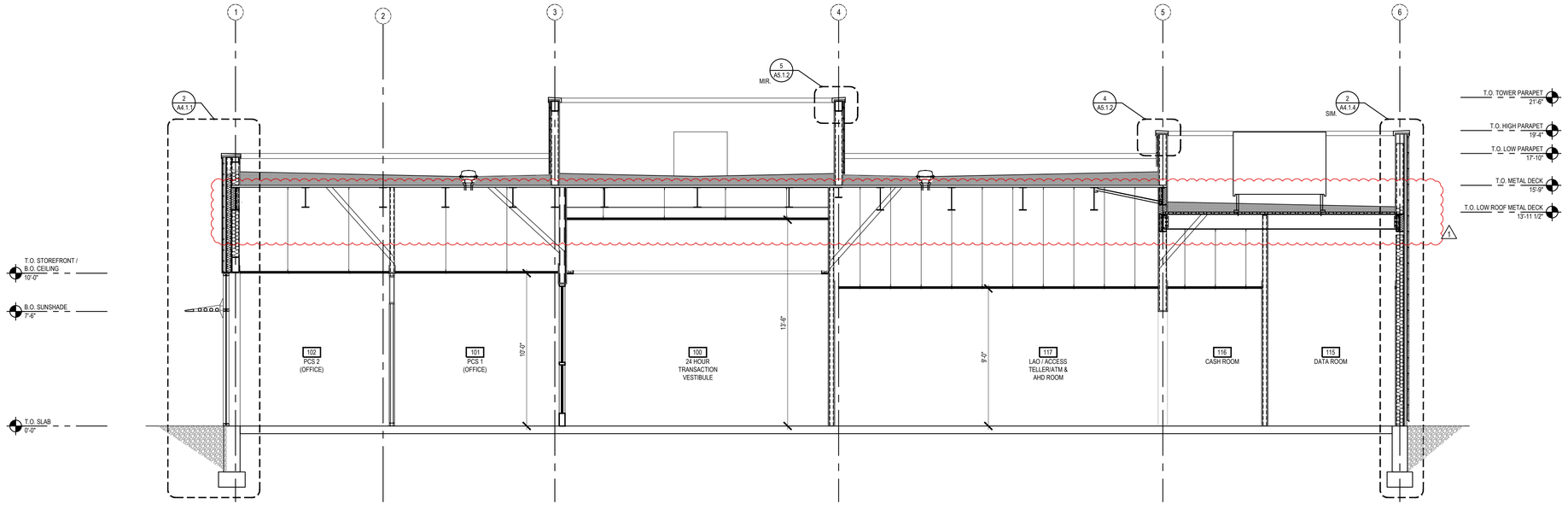
SHEET NUMBER

A3.5



2 / A4.0 BUILDING SECTION

1/4" = 1'-0"



1 / A4.0 BUILDING SECTION

1/4" = 1'-0"

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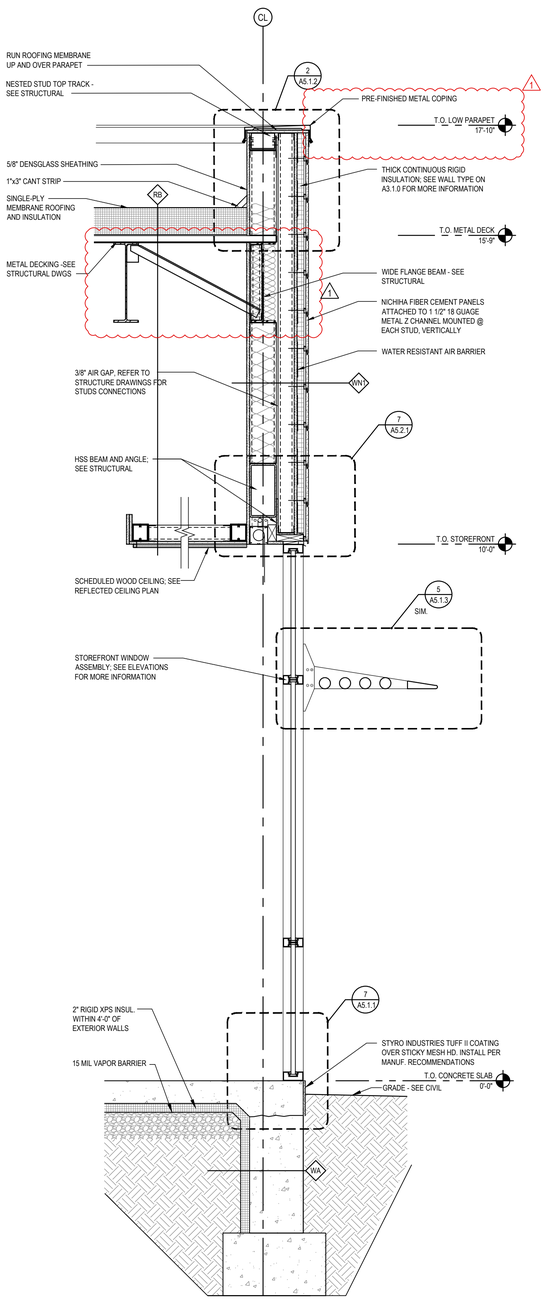
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

BUILDING SECTIONS

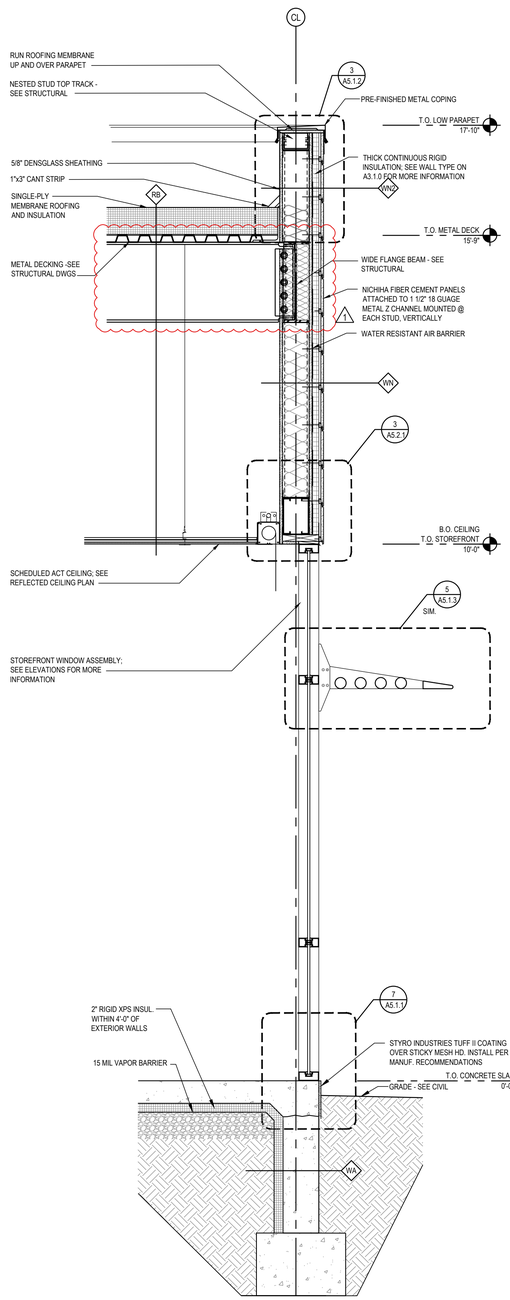
SHEET NUMBER

A4.0.0



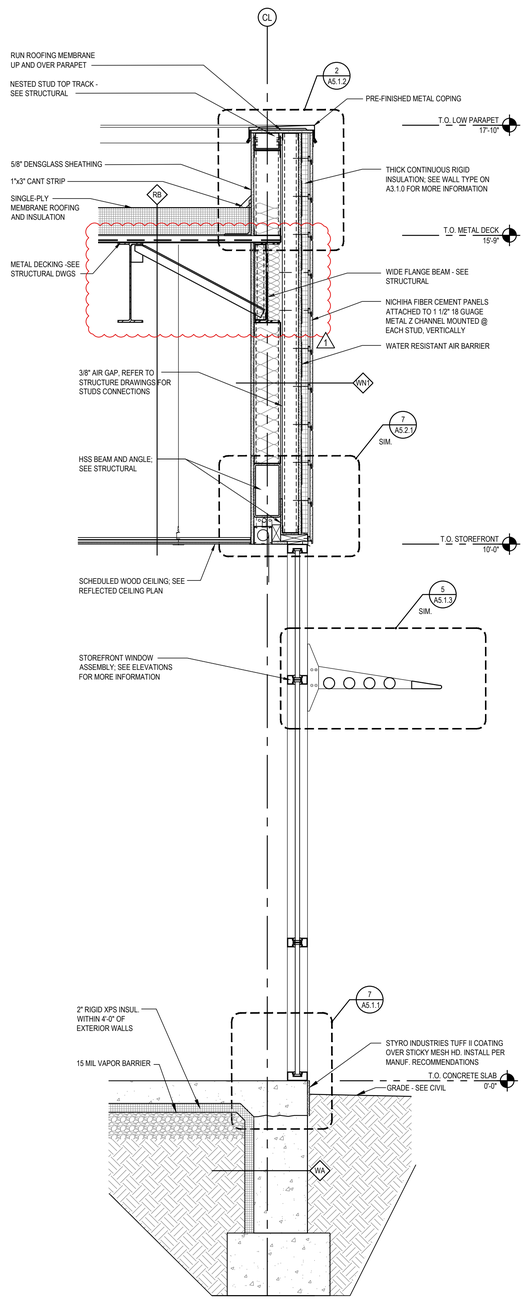
4 A4.1.1 — HIGH ROOF DOUBLE WALL SECTION (BOOTHS)

3/4" = 1'-0"



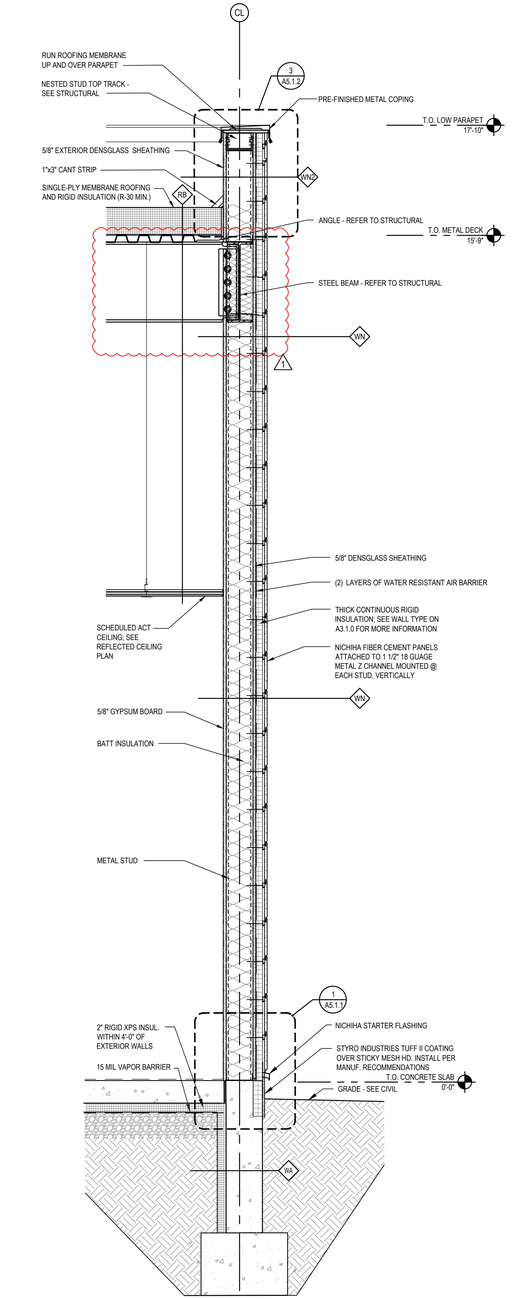
3 A4.1.1 — WALL SECTION AT STOREFRONT- NICHIHA

3/4" = 1'-0"



2 A4.1.1 — HIGH ROOF DOUBLE WALL SECTION (OFFICE)

3/4" = 1'-0"



1 A4.1.1 — WALL SECTION AT HIGH ROOF/ LOW PARAPET NICHIHA

3/4" = 1'-0"

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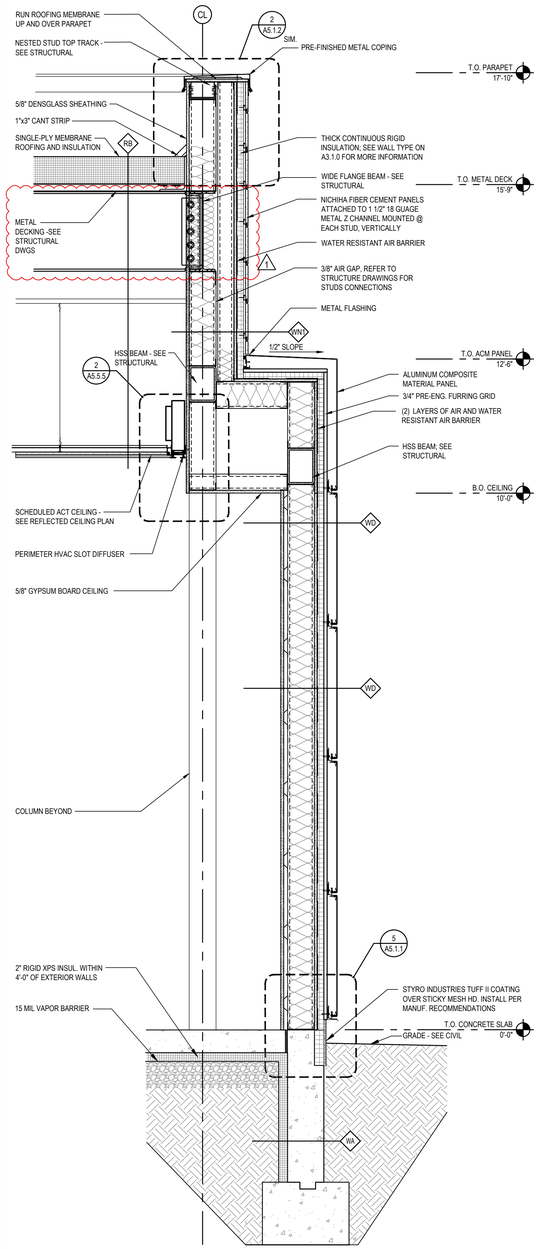
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

WALL SECTIONS:
LOW PARAPET TYPICAL
STOREFRONT OPENINGS

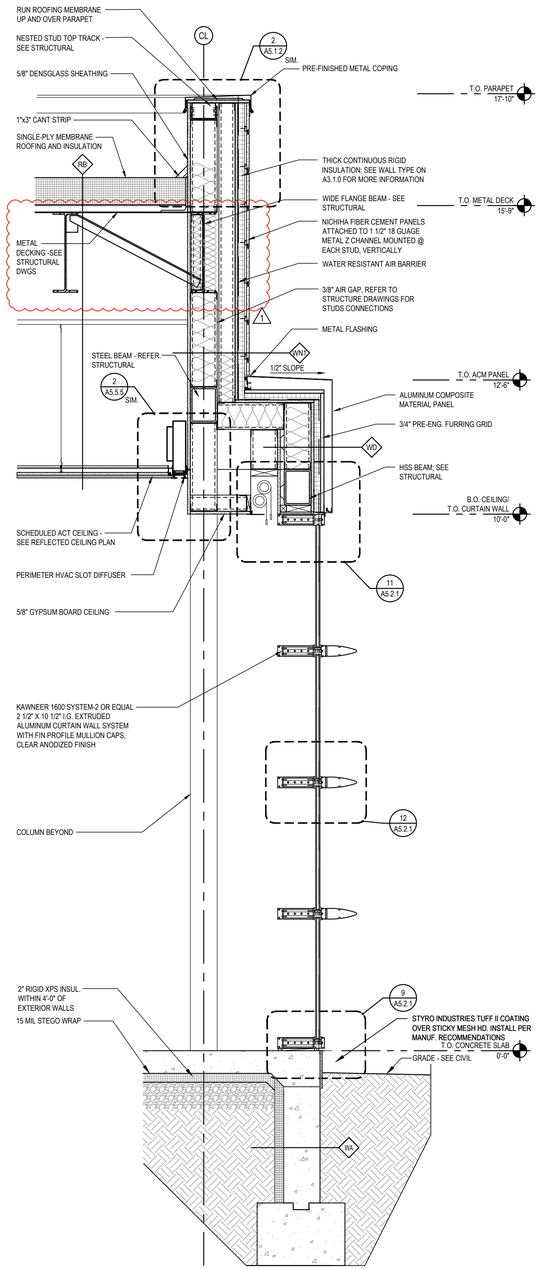
SHEET NUMBER

A4.1.1



4 A4.1.2 WALL SECTION AT ACM PANELS @ DOUBLE PARAPET WALL

3/4" = 1'-0"



3 A4.1.2 WALL SECTION AT ACM PANELS/ CURTAIN WALL @ DOUBLE PARAPET WALL

3/4" = 1'-0"

2 A4.1.2 NOT USED

-

1 A4.1.2 NOT USED

-

P:\J.P. Morgan Chase\Lee's Summit, MO (Hwy 291 and SE Langford Rd.)-JPM.27135.001\ARP_Drawings\A412_Hwy 291 and NE Langford Rd_JPM_Wall Sections.dwg
Wednesday, April 21, 2021 1:09:42 PM

CHASE

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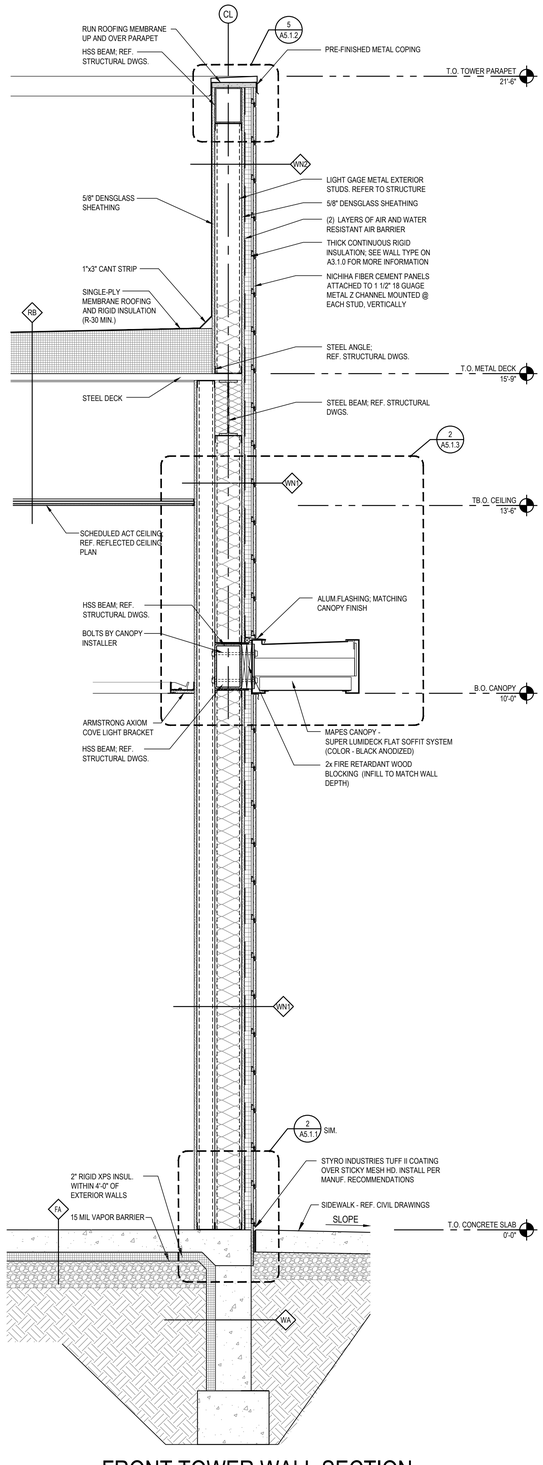
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

WALL SECTIONS: CURTAIN WALL, ACM PANEL AND HIGH PARAPET

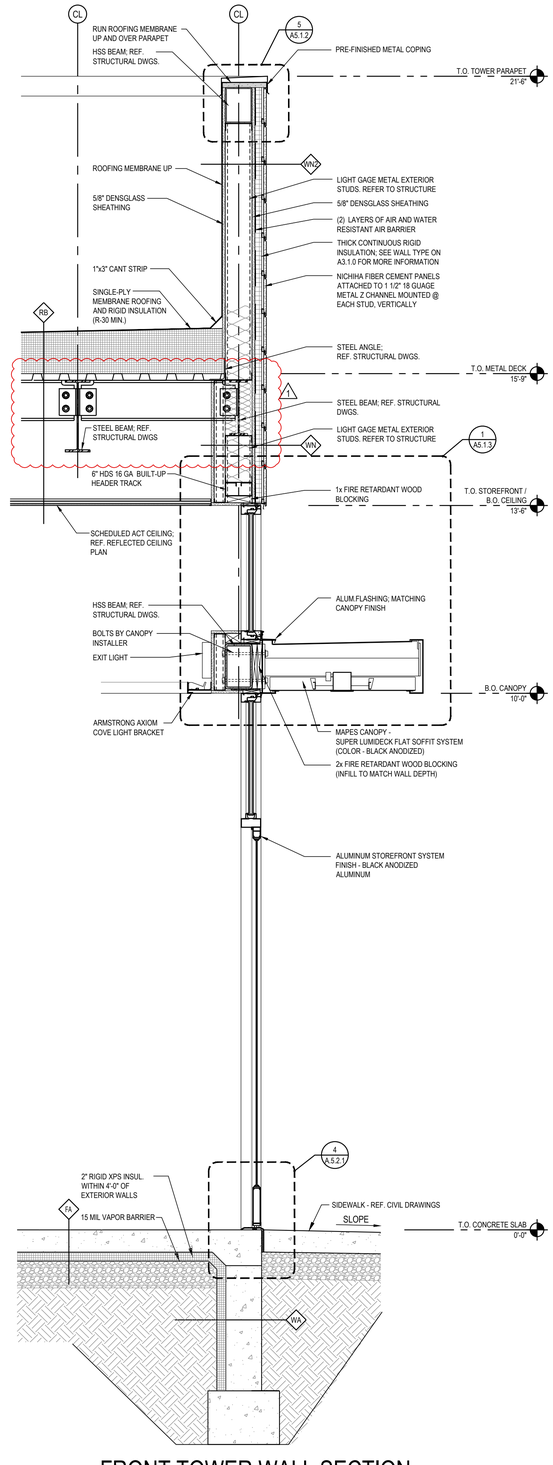
SHEET NUMBER

A4.1.2



2 A4.1.3 FRONT TOWER WALL SECTION- CANOPY RETURN LEG

3/4" = 1'-0"



1 A4.1.3 FRONT TOWER WALL SECTION- FRONT CANOPY/ STOREFRONT

3/4" = 1'-0"

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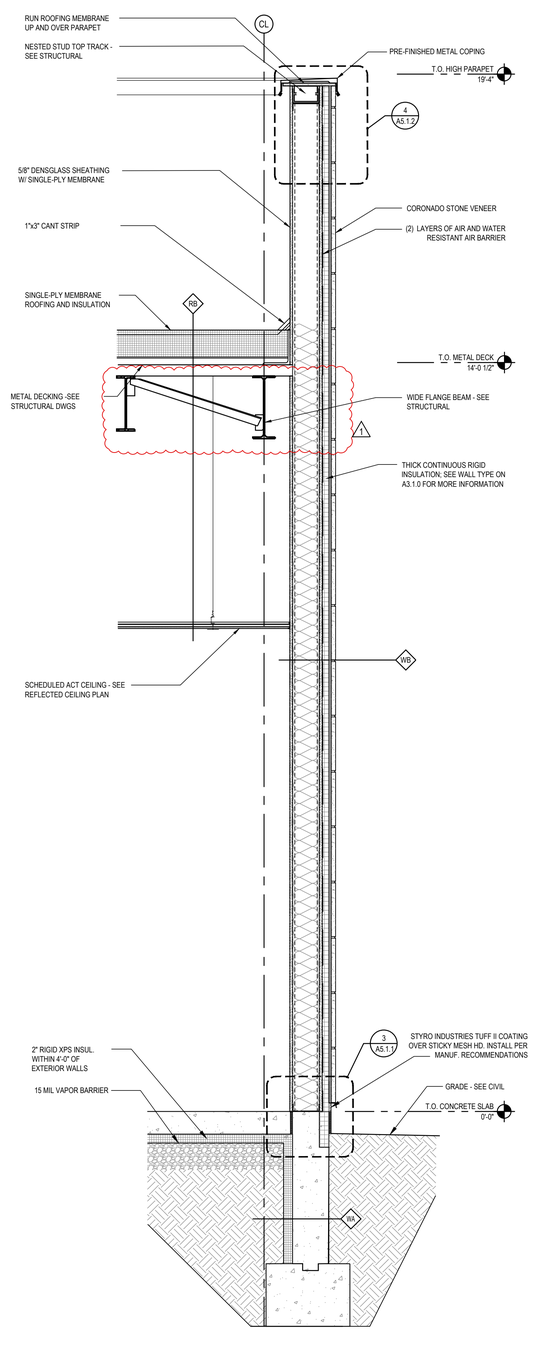
DRAWN BY:	G.SHONTZ
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

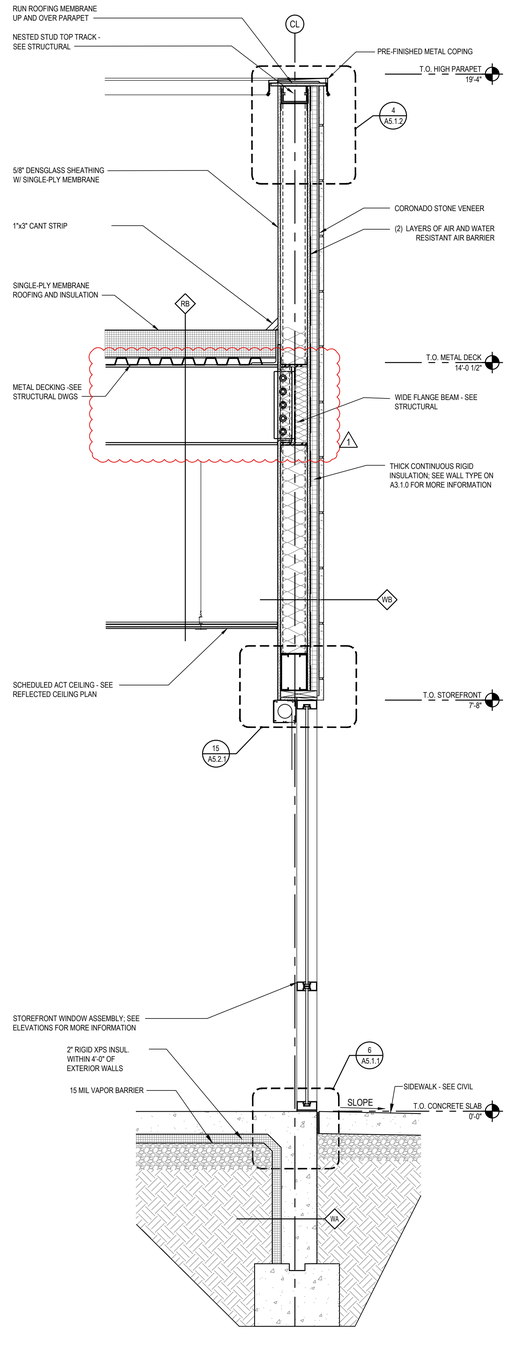
WALL SECTIONS: TOWER PARAPET - ENTRY CANOPY

SHEET NUMBER

A4.1.3



2 A4.1.4 WALL SECTION AT SIMULATED STONE
3/4" = 1'-0"



1 A4.1.4 WALL SECTION AT SIMULATED STONE / STOR
3/4" = 1'-0"

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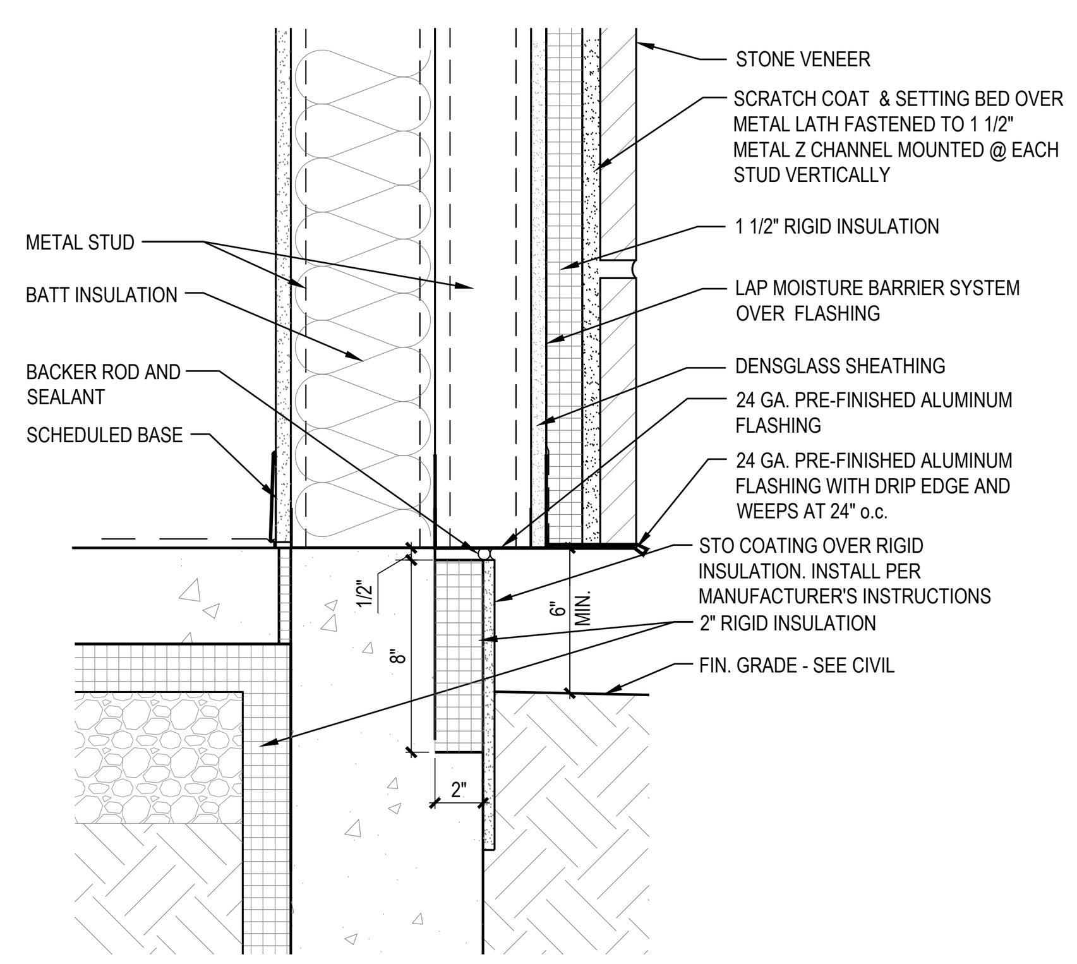
VERSION:	SE_1.00

SHEET TITLE

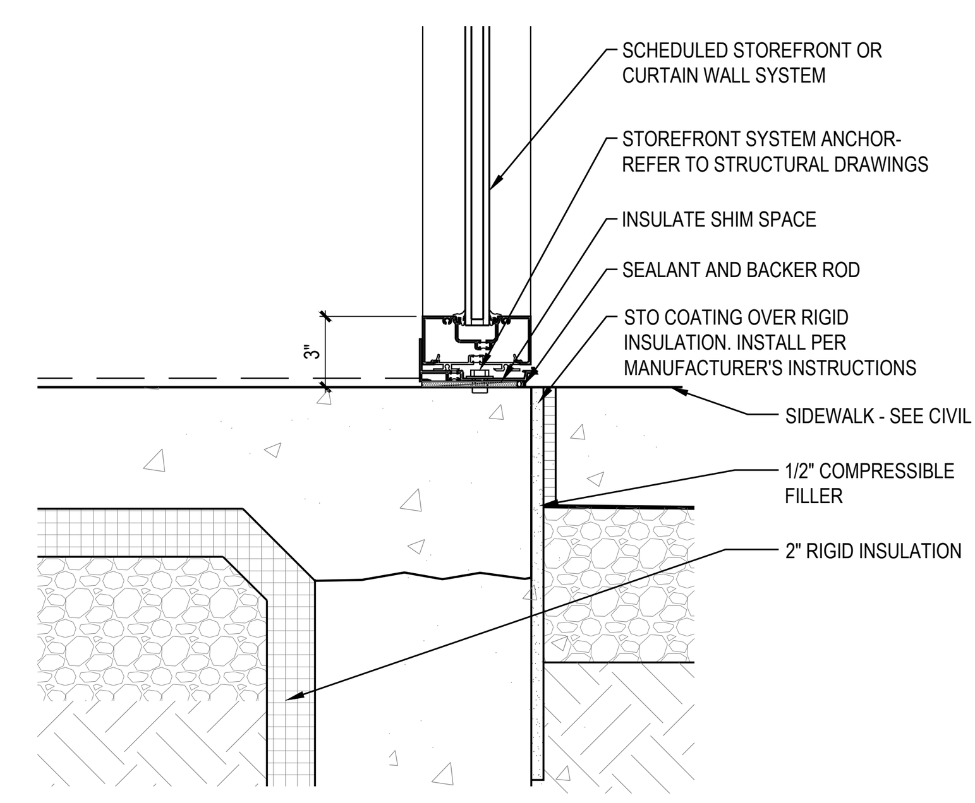
WALL SECTIONS: SIMULATED STONE

SHEET NUMBER

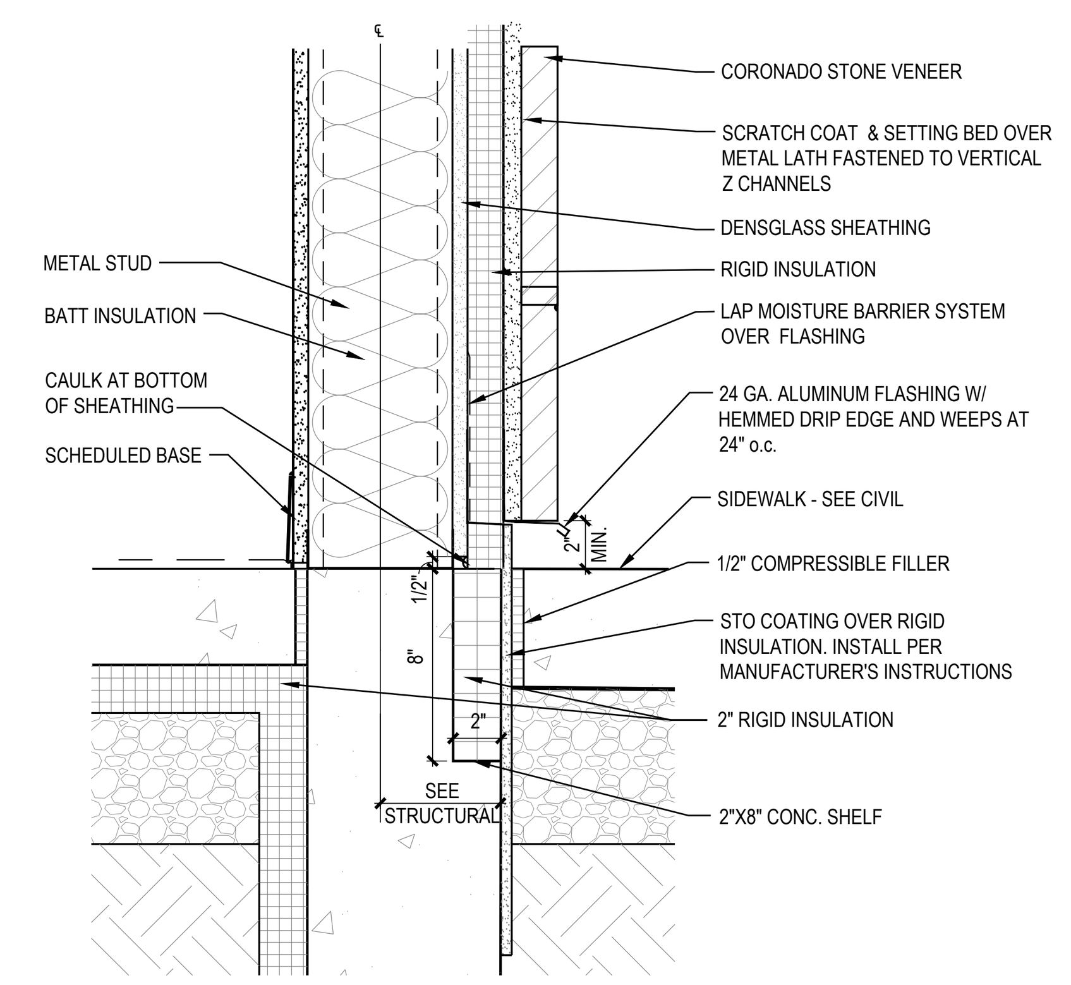
A4.1.4



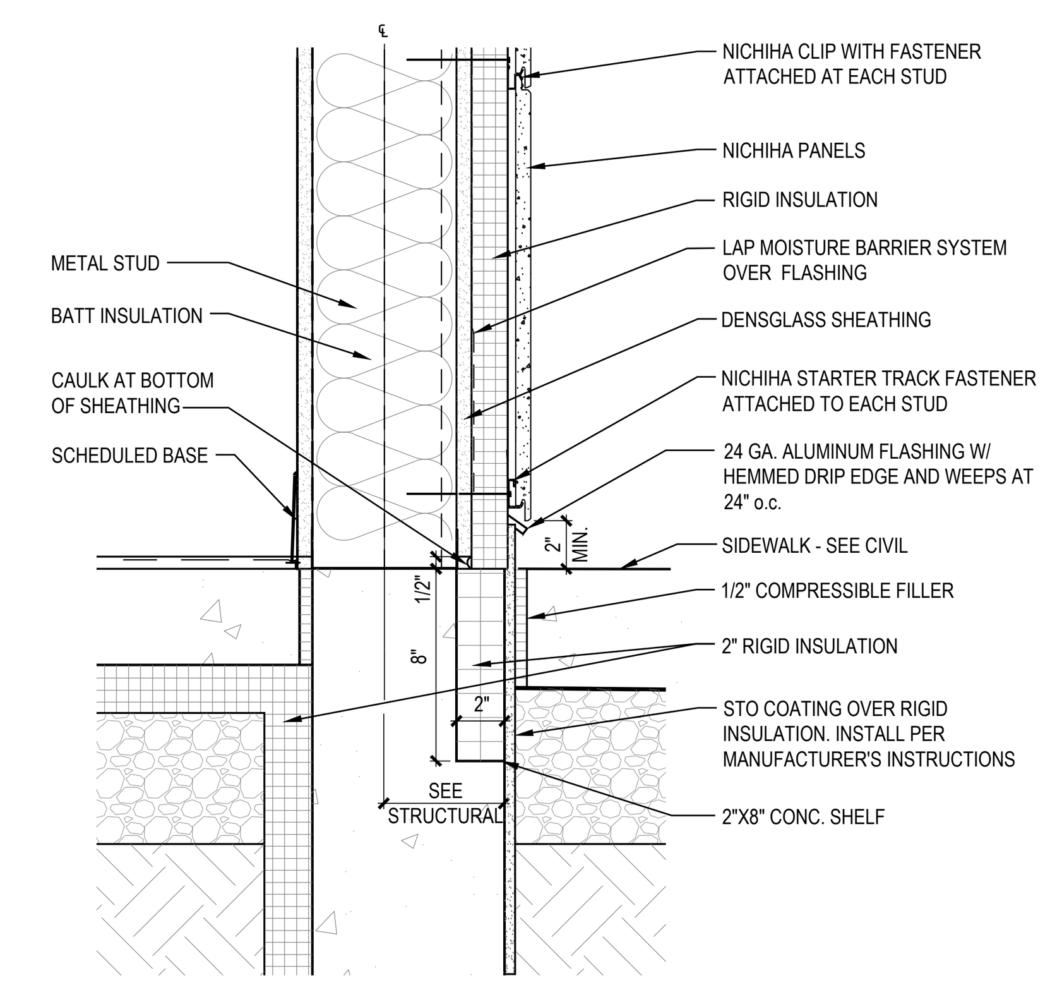
8 A5.1.1 **STONE VENEER AT GRADE**
1 1/2" = 1'-0"



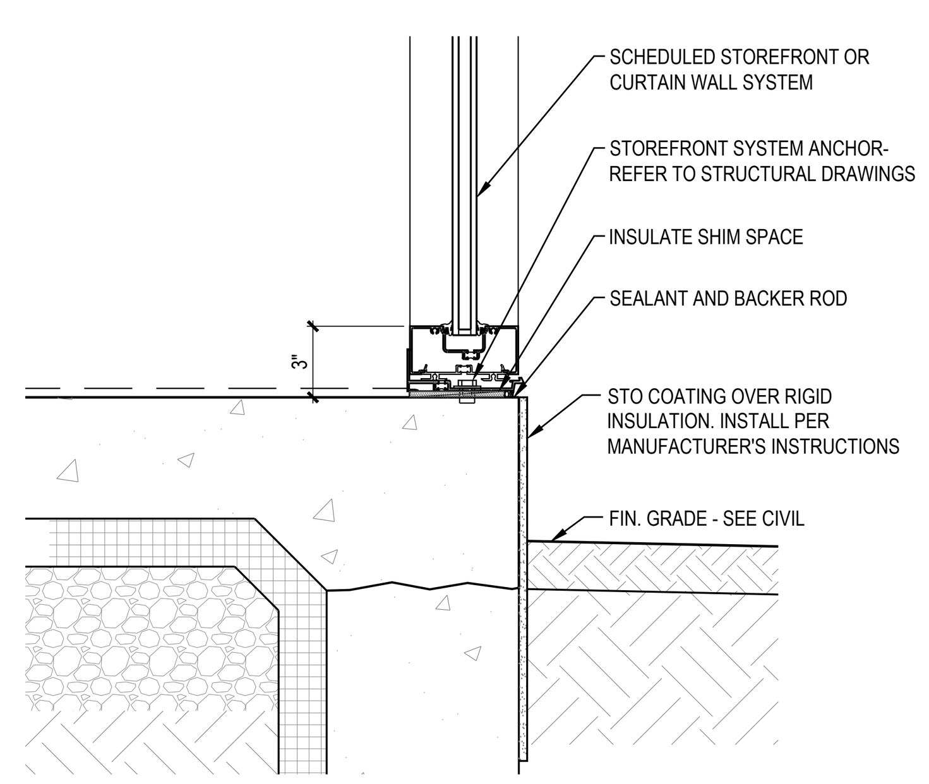
6 A5.1.1 **STOREFRONT SILL AT SLAB**
1 1/2" = 1'-0"



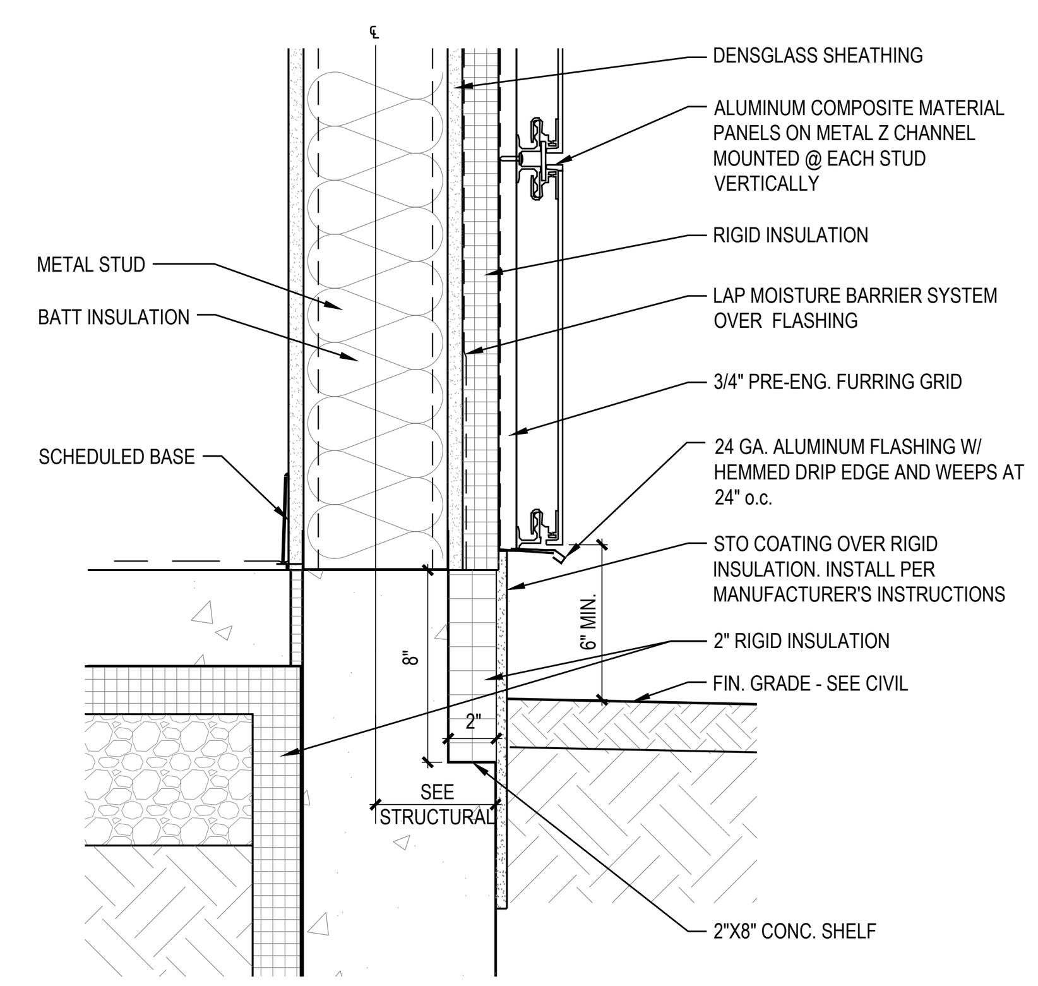
4 A5.1.1 **STONE VENEER AT SLAB**
1 1/2" = 1'-0"



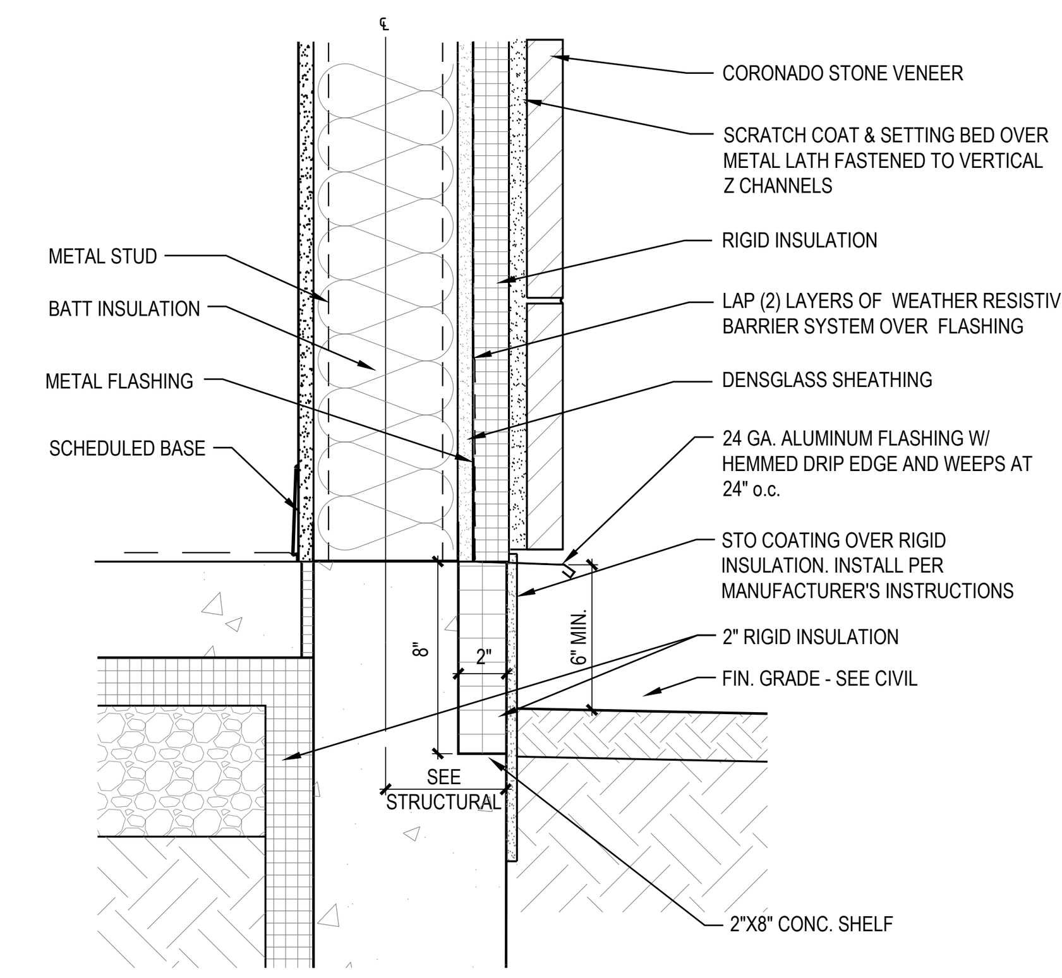
2 A5.1.1 **NICHIHA PANELS AT SLAB**
1 1/2" = 1'-0"



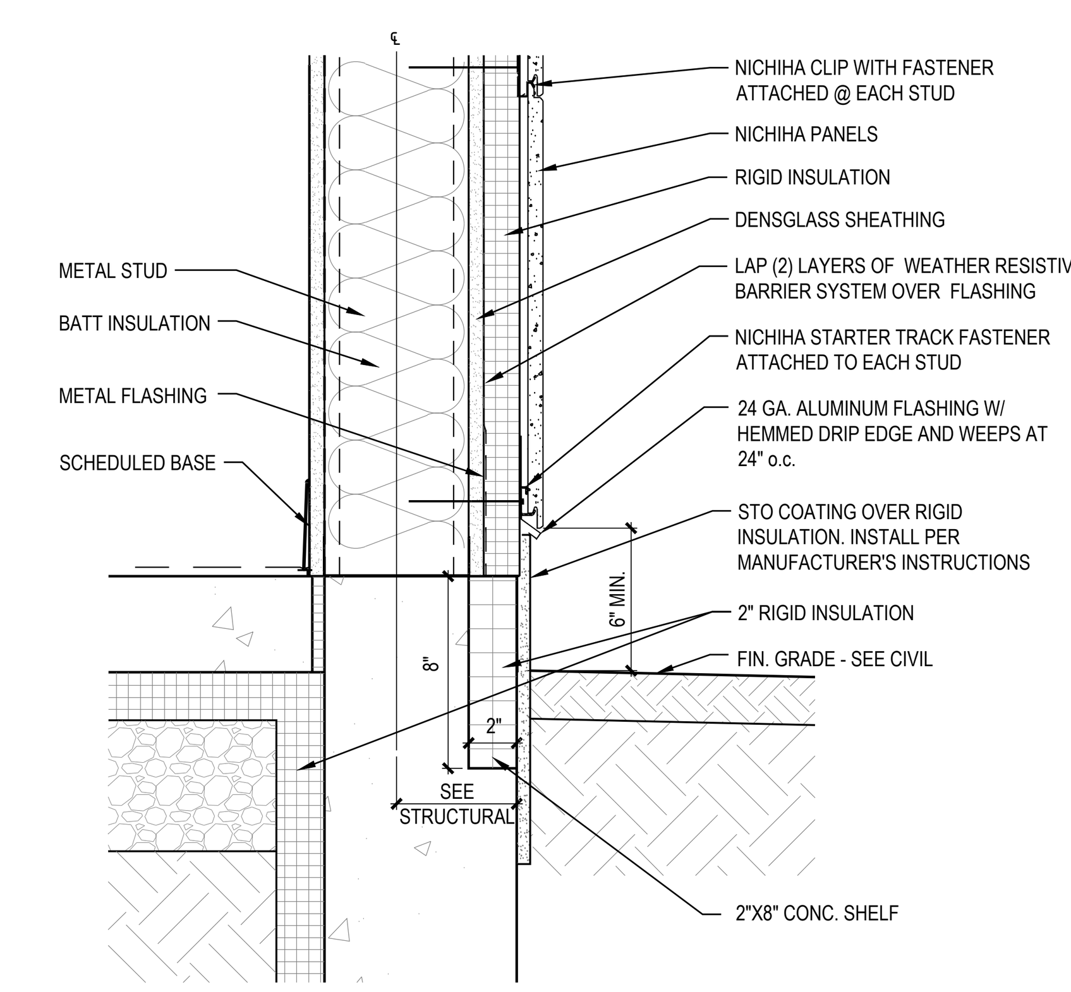
7 A5.1.1 **STOREFRONT SILL AT GRADE**
1 1/2" = 1'-0"



5 A5.1.1 **ACM PANELS AT GRADE**
1 1/2" = 1'-0"



3 A5.1.1 **STONE VENEER AT GRADE**
1 1/2" = 1'-0"



1 A5.1.1 **NICHIHA PANELS AT GRADE**
1 1/2" = 1'-0"

CHASE

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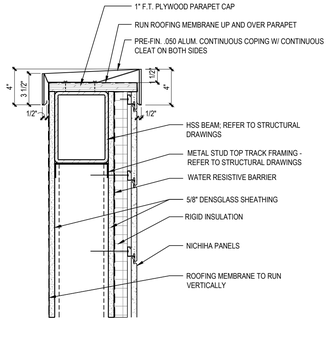
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

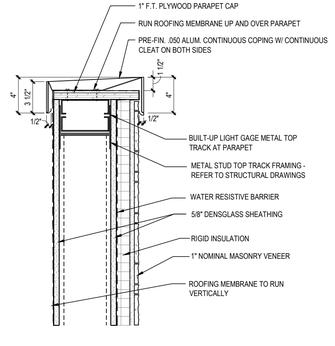
DETAILS:
BUILDING ENVELOPE

SHEET NUMBER

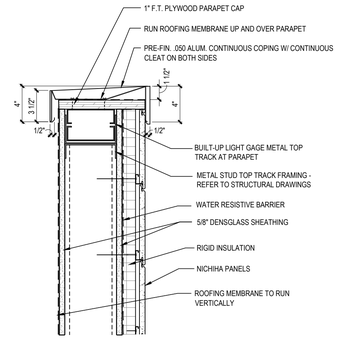
A5.1.1



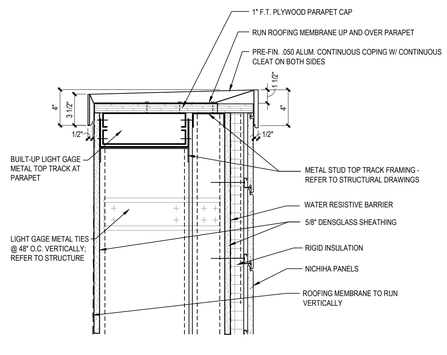
5 A5.1.2 TOWER ROOF PARAPET
1 1/2" = 1'-0"



4 A5.1.2 LOW ROOF PARAPET
1 1/2" = 1'-0"



3 A5.1.2 HIGH ROOF PARAPET
1 1/2" = 1'-0"



2 A5.1.2 DOUBLE WALL ROOF PARAPET
1 1/2" = 1'-0"

1 A5.1.2 NOT USED
1 1/2" = 1'-0"

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CHASE OVP#38200P368999

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

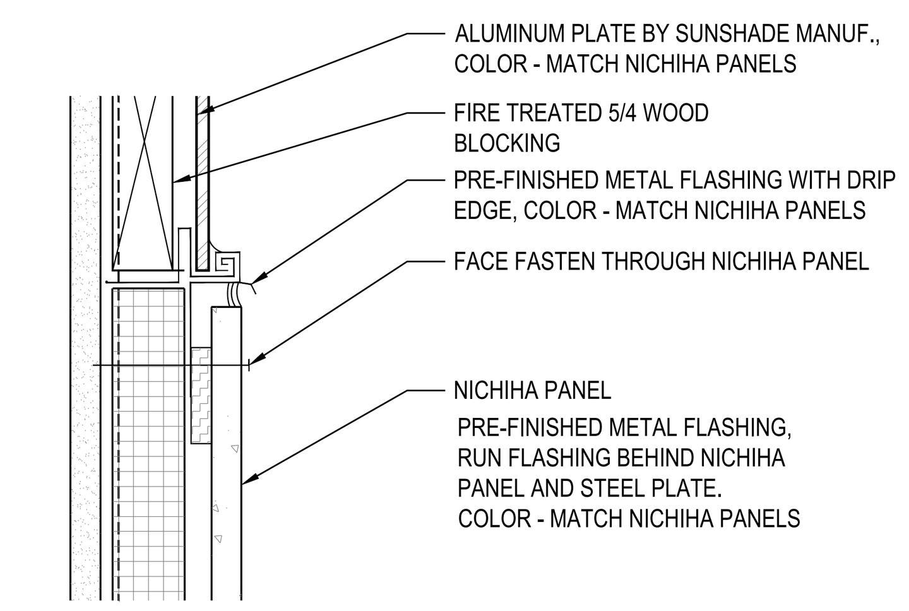
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

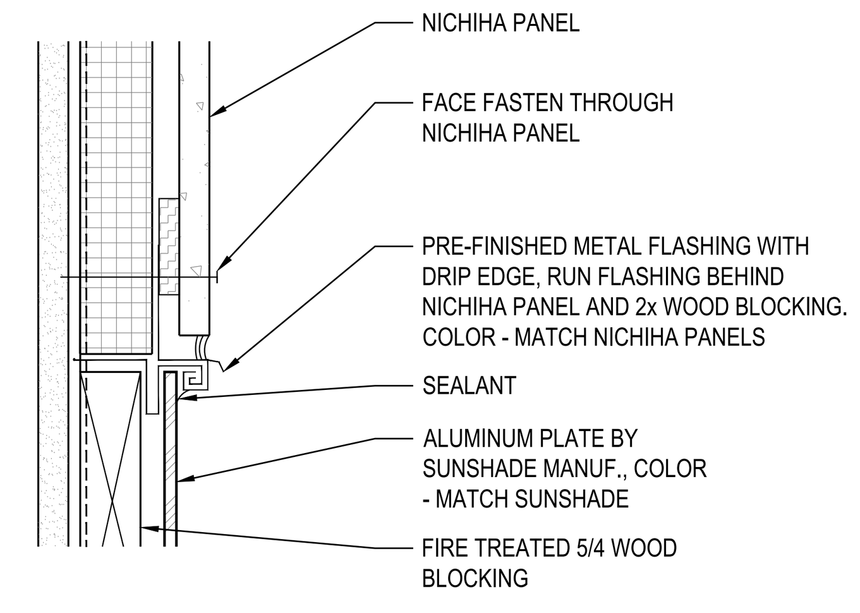
DETAILS:
BUILDING ENVELOPE

SHEET NUMBER

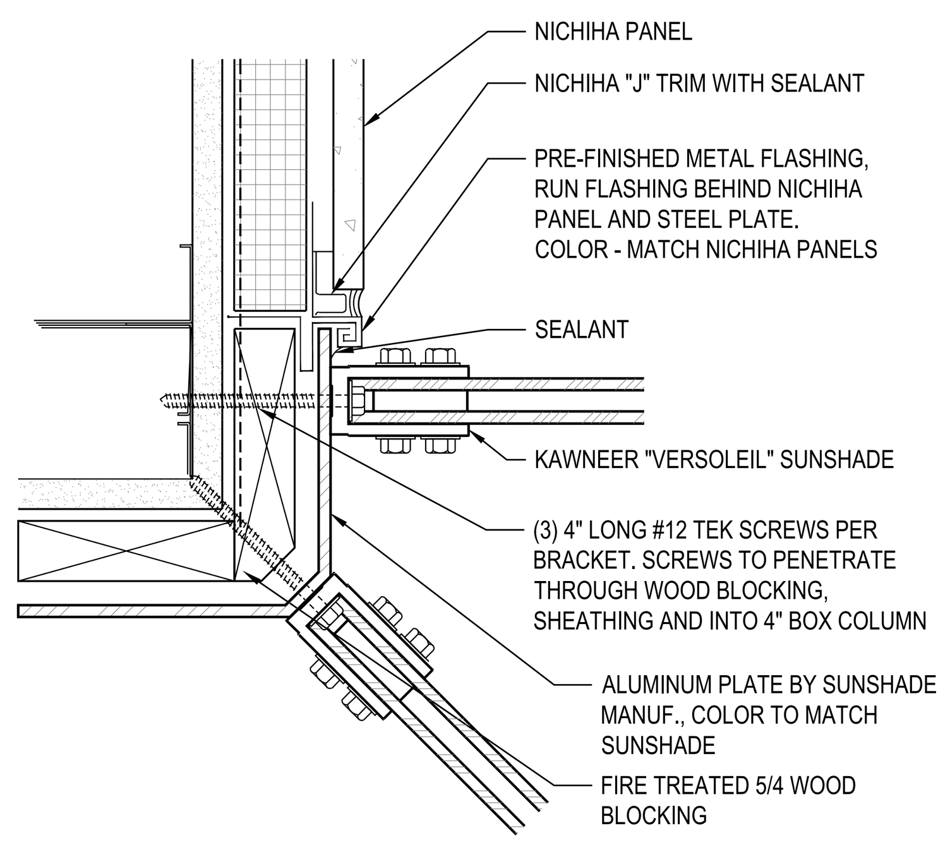
A5.1.2



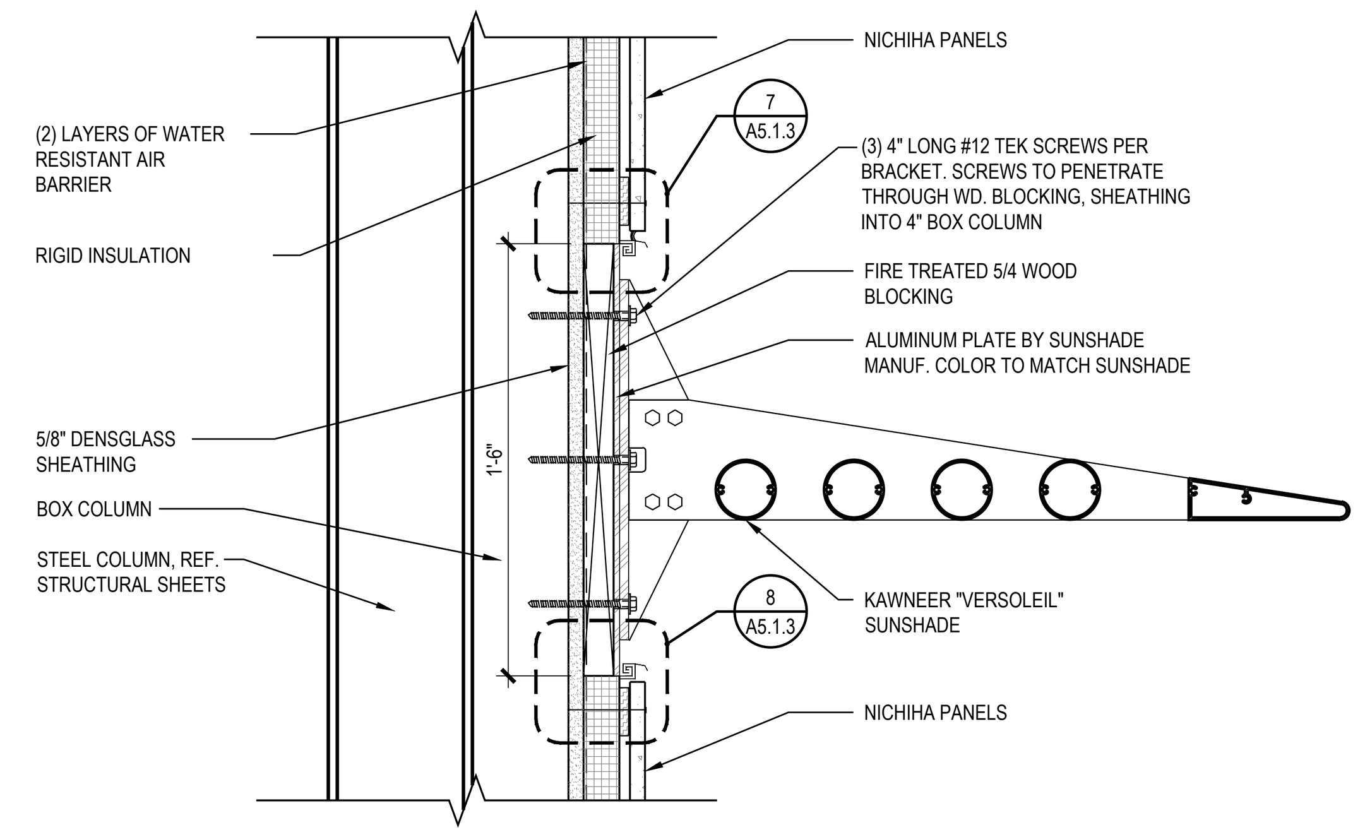
8 A5.1.3 FLASHING DETAIL
3" = 1'-0"



7 A5.1.3 FLASHING DETAIL
3" = 1'-0"



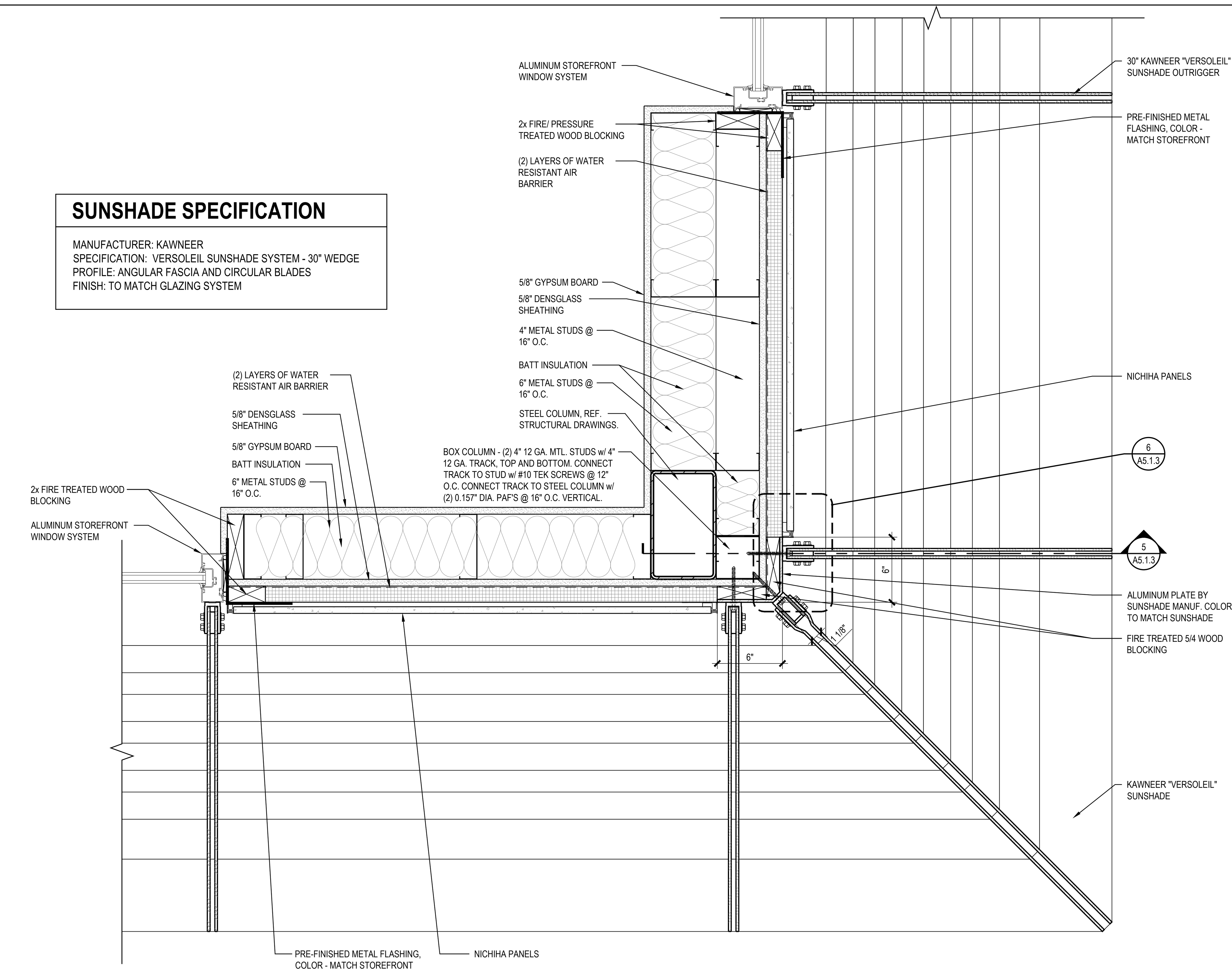
6 A5.1.3 FLASHING DETAIL
3" = 1'-0"



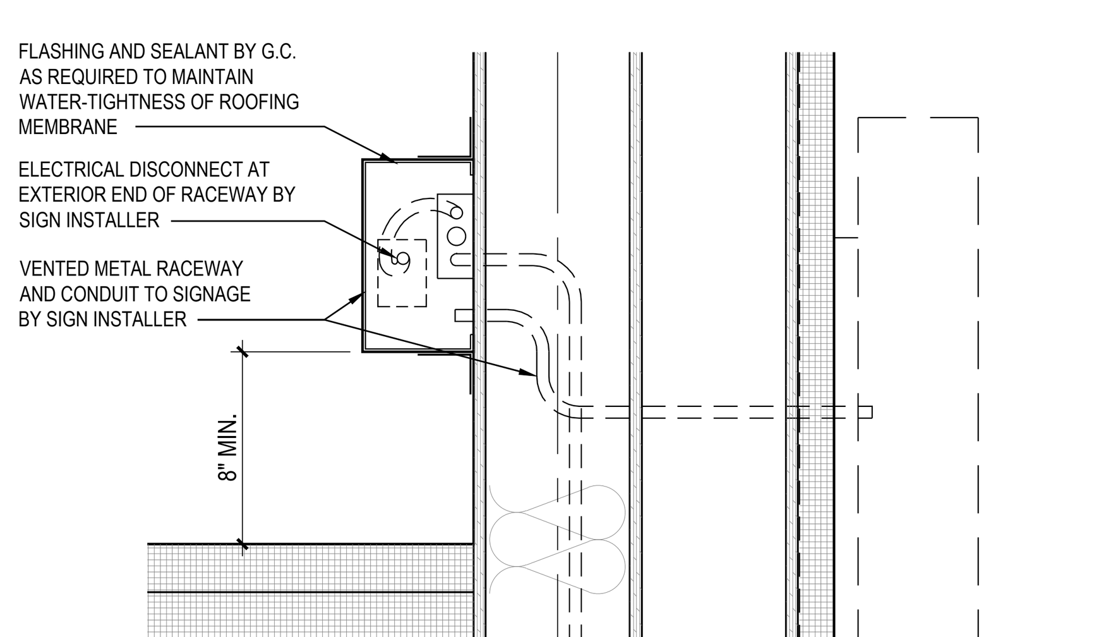
5 A5.1.3 SUNSHADE DETAIL
1 1/2" = 1'-0"

SUNSHADE SPECIFICATION

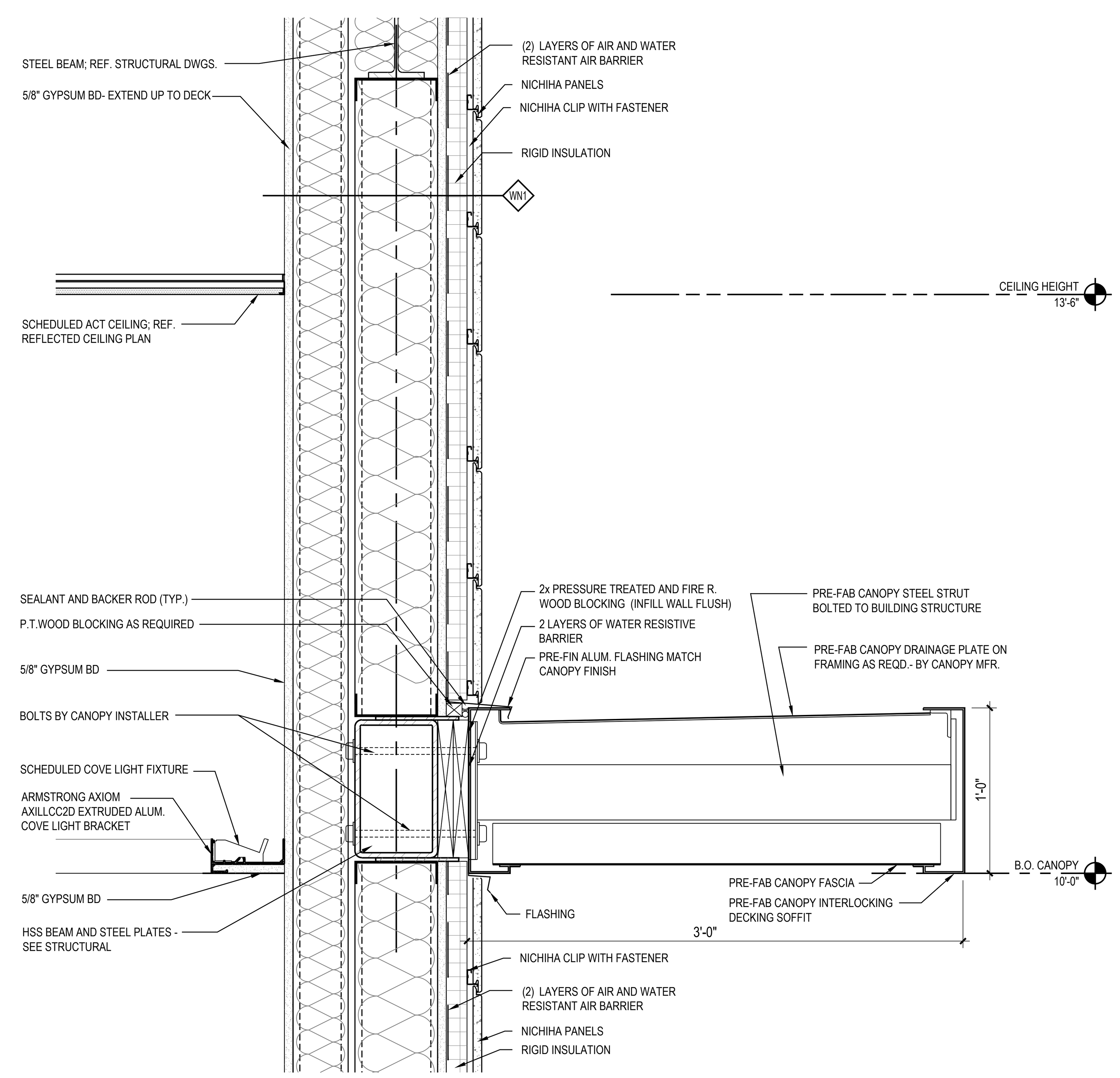
MANUFACTURER: KAWNEER
SPECIFICATION: VERSOLEIL SUNSHADE SYSTEM - 30° WEDGE
PROFILE: ANGULAR FASCIA AND CIRCULAR BLADES
FINISH: TO MATCH GLAZING SYSTEM



4 A5.1.3 SUNSHADE CORNER DETAIL
1 1/2" = 1'-0"



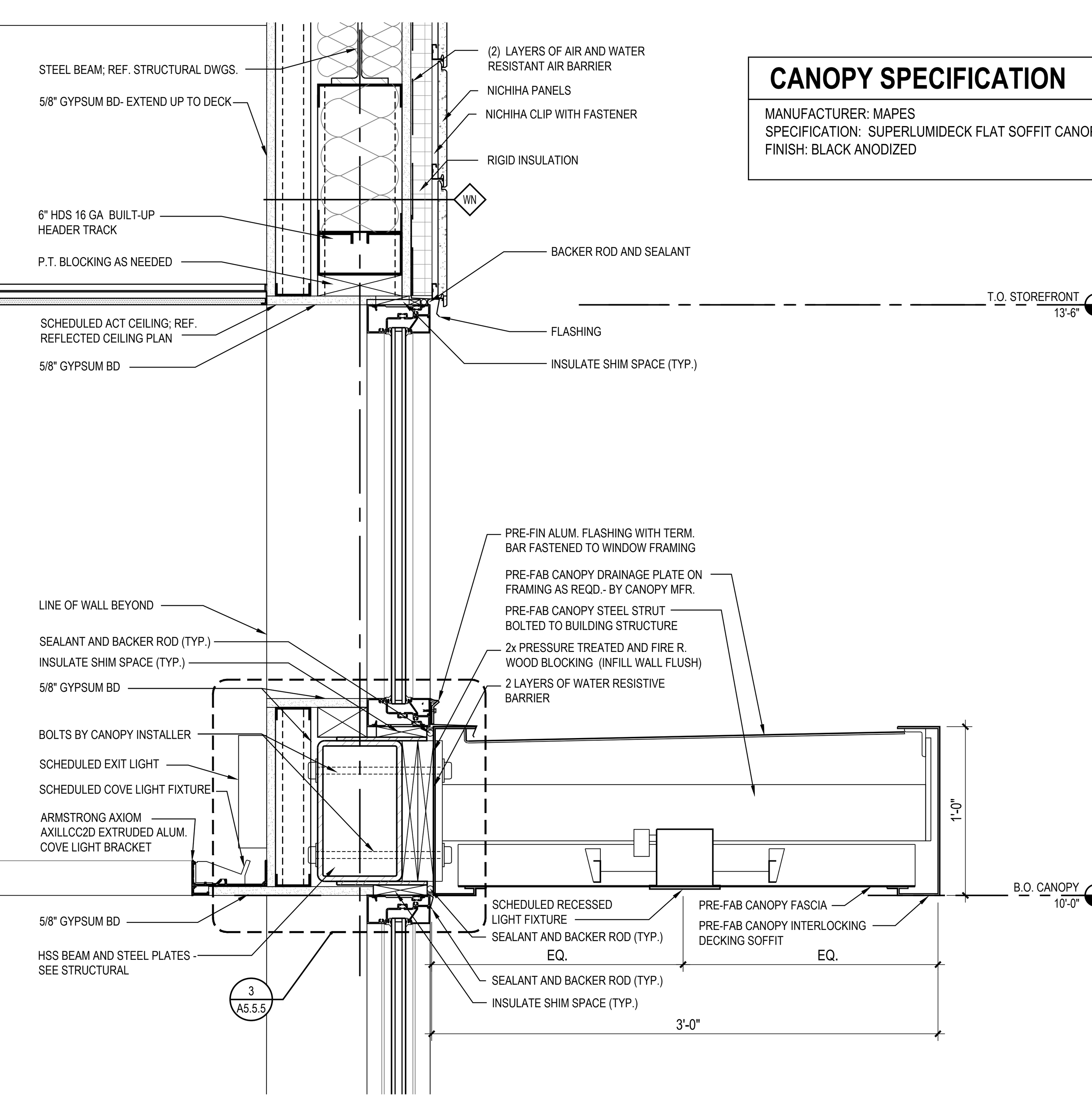
3 A5.1.3 PARAPET SIGNAGE RACEWAY
1 1/2" = 1'-0"



2 A5.1.3 ENTRANCE CANOPY - RETURN LEG
1 1/2" = 1'-0"

CANOPY SPECIFICATION

MANUFACTURER: MAPES
SPECIFICATION: SUPERLUMIDECK FLAT SOFFIT CANOPY SYSTEM
FINISH: BLACK ANODIZED



1 A5.1.3 ENTRY VESTIBULE CANOPY
1 1/2" = 1'-0"

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

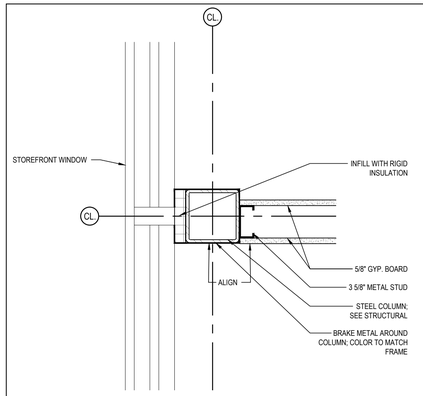
SHEET TITLE

DETAILS:
ENTRANCE CANOPIES
AND SUNSHADE

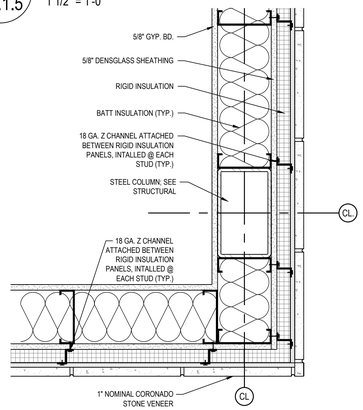
SHEET NUMBER

A5.1.3

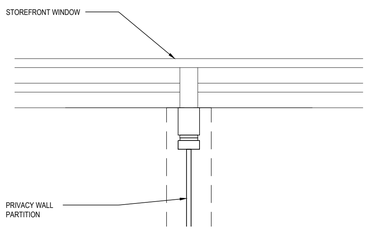
P:\..\JP Morgan Chase\Lee's Summit, MO (Hwy 291 and NE Langsford Rd)\JPM.27135.001\A\REPS_Drawings\A5.1.3_Hwy 291 and NE Langsford Rd_JPM_Entrance Canopy and Sunshade.dwg
Monday, December 14, 2020 2:21:00 PM



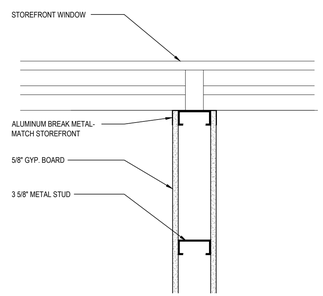
10 A5.1.5 **CONNECTION DETAIL**
1 1/2" = 1'-0"



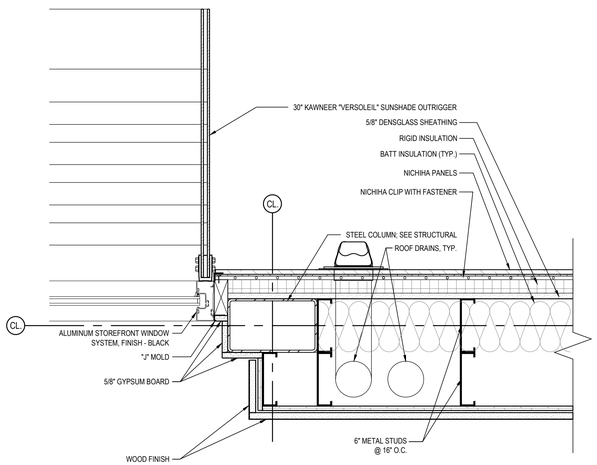
9 A5.1.5 **CORNER DETAIL**
1 1/2" = 1'-0"



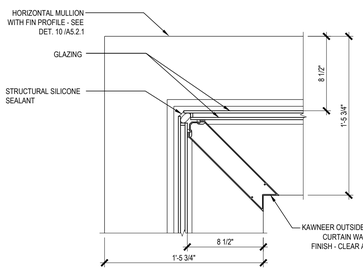
8A A5.1.5 **CONNECTION DETAIL**
1 1/2" = 1'-0"



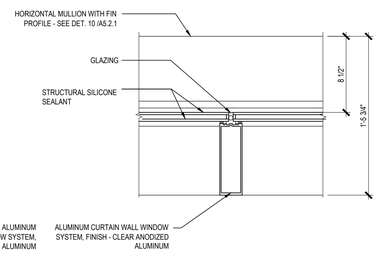
8 A5.1.5 **CONNECTION DETAIL**
1 1/2" = 1'-0"



7 A5.1.5 **CONNECTION DETAIL**
1 1/2" = 1'-0"

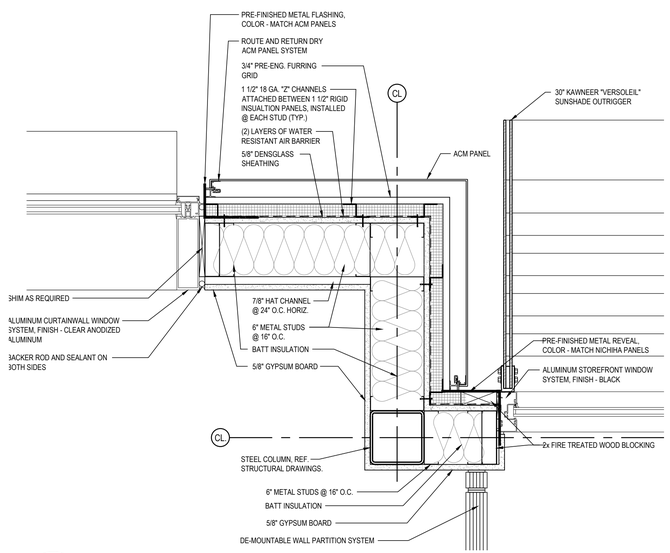


CORNER

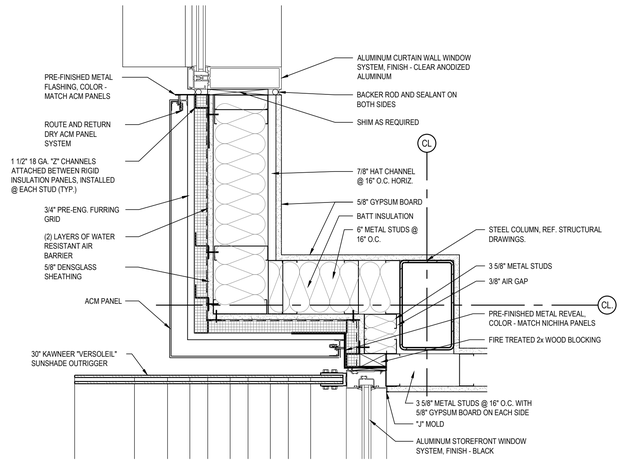


VERTICAL

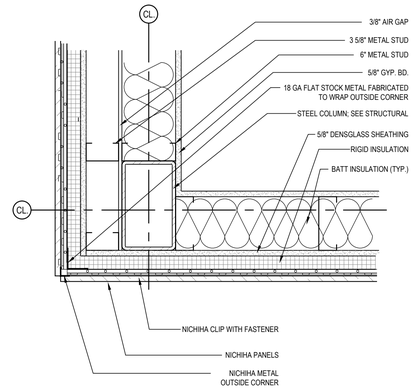
6 A5.1.5 **MULLION @ CURTAINWALL**
1 1/2" = 1'-0"



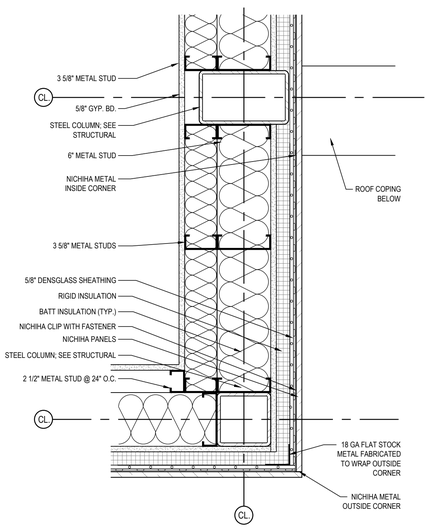
5 A5.1.5 **ACM CORNER DETAIL**
1 1/2" = 1'-0"



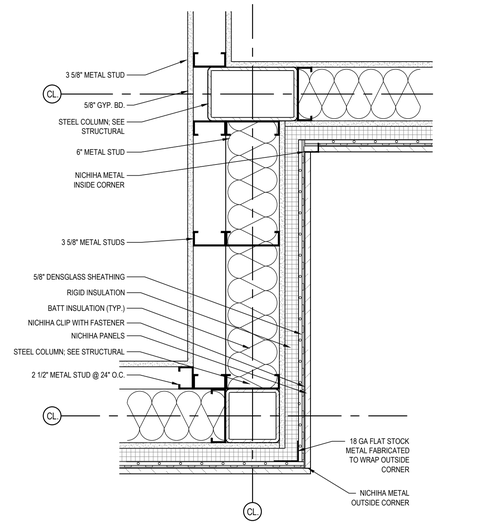
4 A5.1.5 **ACM CORNER DETAIL**
1 1/2" = 1'-0"



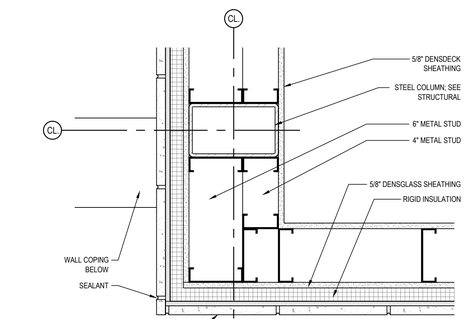
3 A5.1.5 **CORNER DETAIL @ NICHIHA**
1 1/2" = 1'-0"



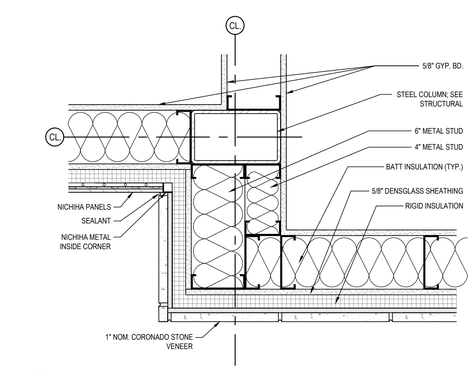
2A A5.1.5 **CORNER DETAIL @ NICHIHA**
1 1/2" = 1'-0"



2 A5.1.5 **CORNER DETAIL @ NICHIHA**
1 1/2" = 1'-0"



1A A5.1.5 **CORNER DETAIL @ STONE & NICHIHA**
1 1/2" = 1'-0"



1 A5.1.5 **CORNER DETAIL @ STONE & NICHIHA**
1 1/2" = 1'-0"

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

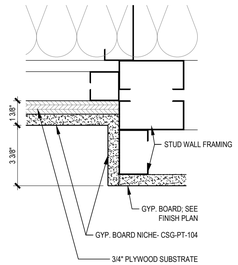
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

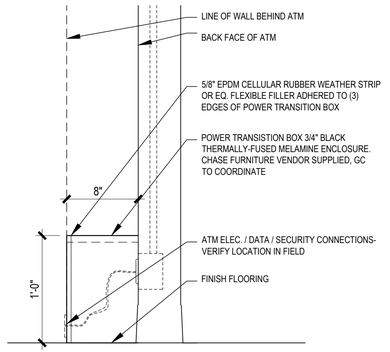
DETAILS:
EXTERIOR CORNERS AND STOREFRONT MULLION

SHEET NUMBER

A5.1.5



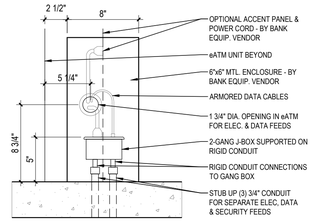
10 A5.5.2 **SCREEN NICHE**
3" = 1'-0"



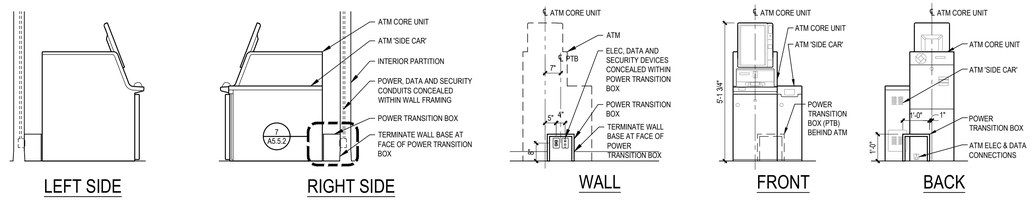
7 A5.5.2 **MILLWORK POWER TRANSITION BOX**
1 1/2" = 1'=0"

9 A5.5.2 **ATM KEY BOX- SECTION**
1-1/2" = 1'-0"

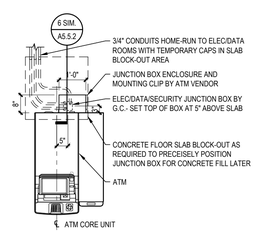
8 A5.5.2 **ATM KEY BOX- ELEVATION**
1-1/2" = 1'-0"



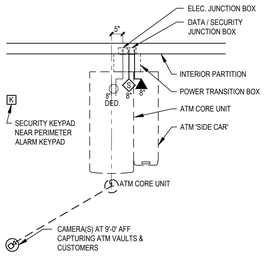
6 A5.5.2 **FREESTANDING eATM - ELEC./DATA/ SECURITY ROUGH-INS (VERT.)**
1 1/2" = 1'=0"



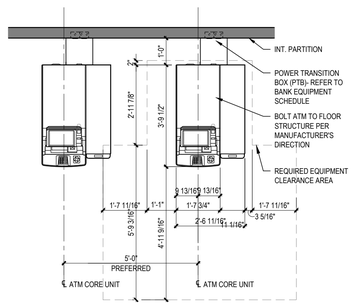
5 A5.5.2 **ATM v3.0 ELEVATIONS**
3/8" = 1'-0"



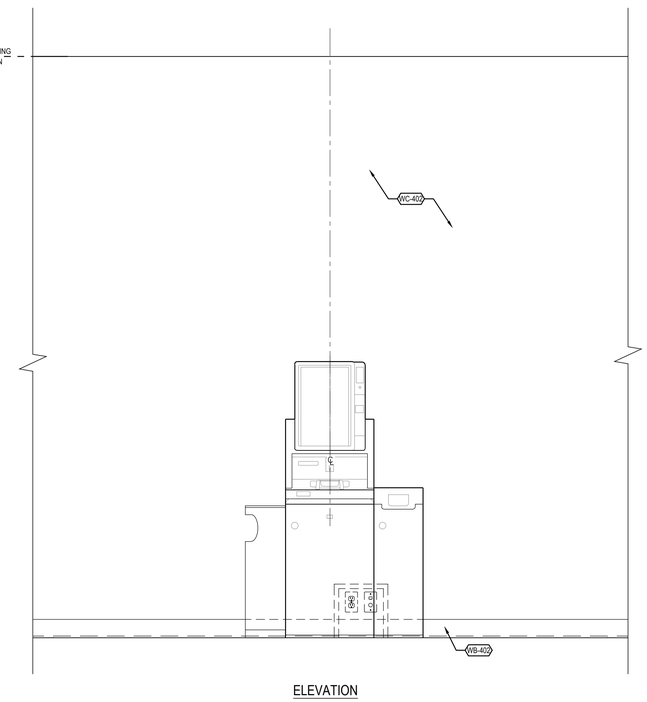
4 A5.5.2 **ATM v3.0 FREESTANDING PLAN**
3/8" = 1'-0"



3 A5.5.2 **ATM v3.0 ELEC./DATA/SEC. PLAN**
3/8" = 1'-0"



2 A5.5.2 **ATM v3.0 FLOOR PLAN**
3/8" = 1'-0"



1 A5.5.2 **INT. ELEV. AT eATM V3.0**
3/4" = 1'-0"

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COA #: A-2014026908

ARCHITECT OF RECORD
STATE OF MISSOURI
ROBERT BRUCE LASURS
June 15, 2021
NUMBER A-7504
ARCHITECT
ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

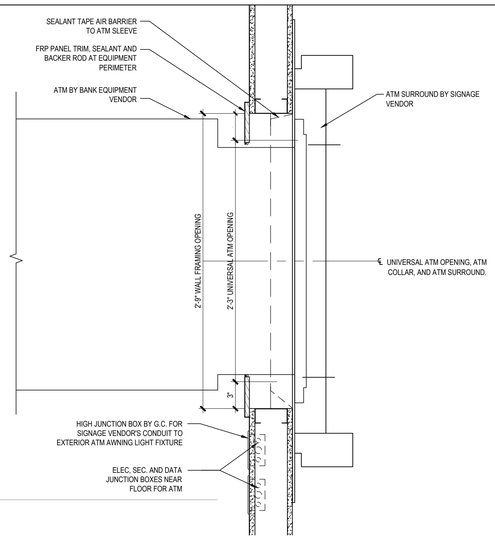
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

DETAILS: ATM

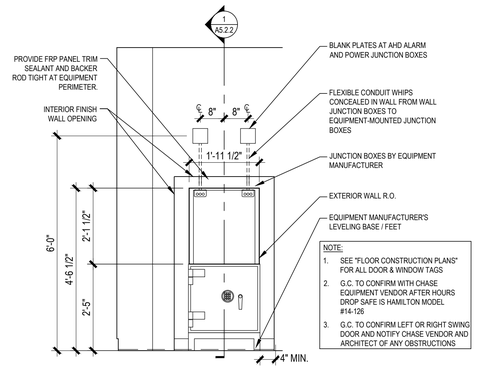
SHEET NUMBER

A5.5.2



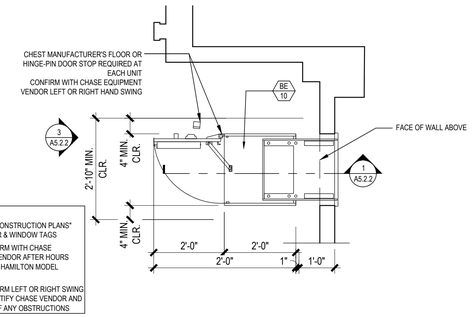
5 A5.2.2 TYP. INT. ATM OPENING- HORIZONTAL

1 1/2" = 1'-0"



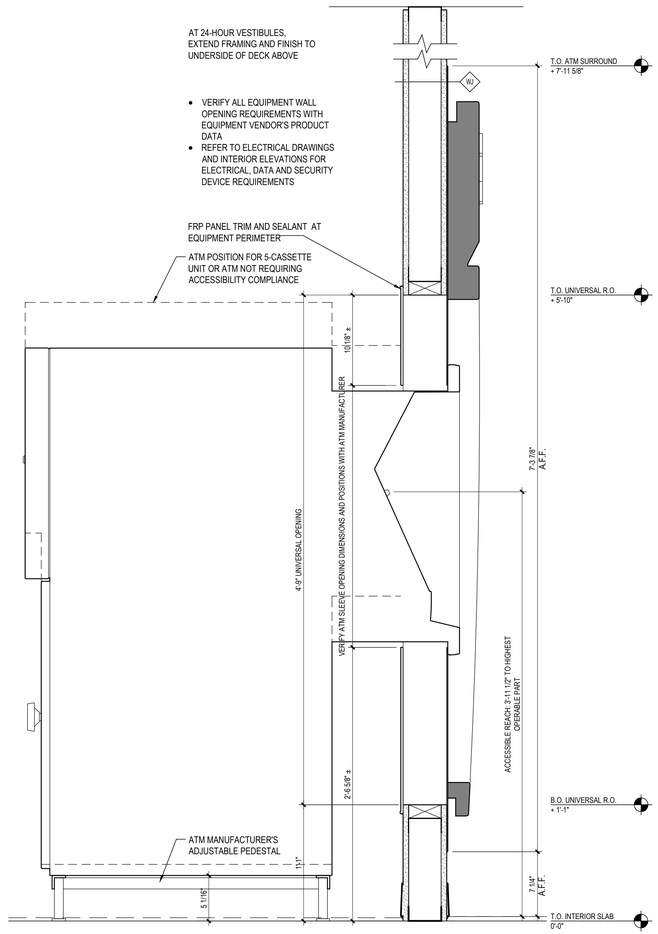
3 A5.2.2 AFTER-HOURS DEPOSITORY ELEVATION

1/2" = 1'-0"



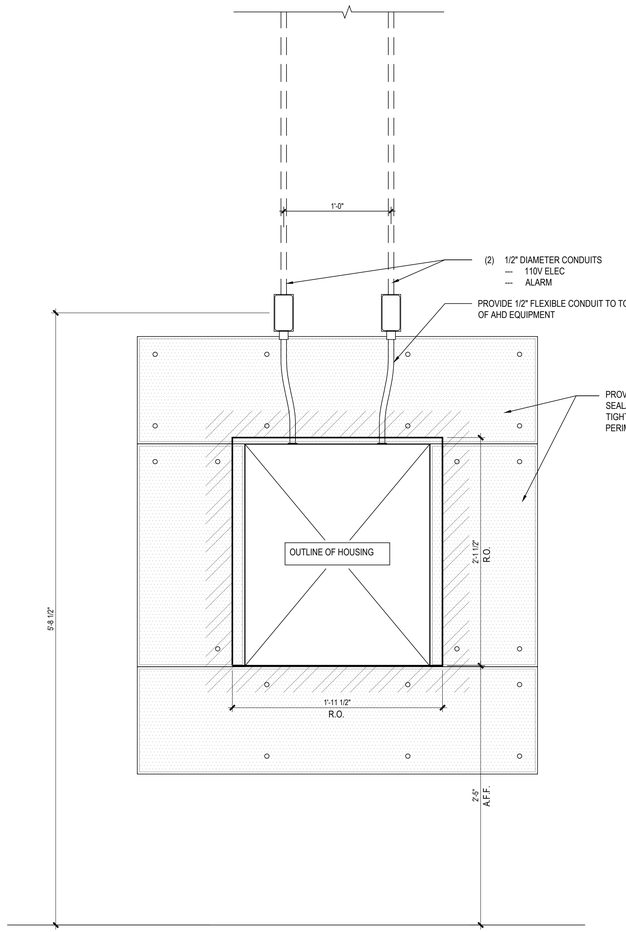
2 A5.2.2 ENLARGED AFTER-HOURS DEPOSITORY FLOOR PLAN

1/2" = 1'-0"



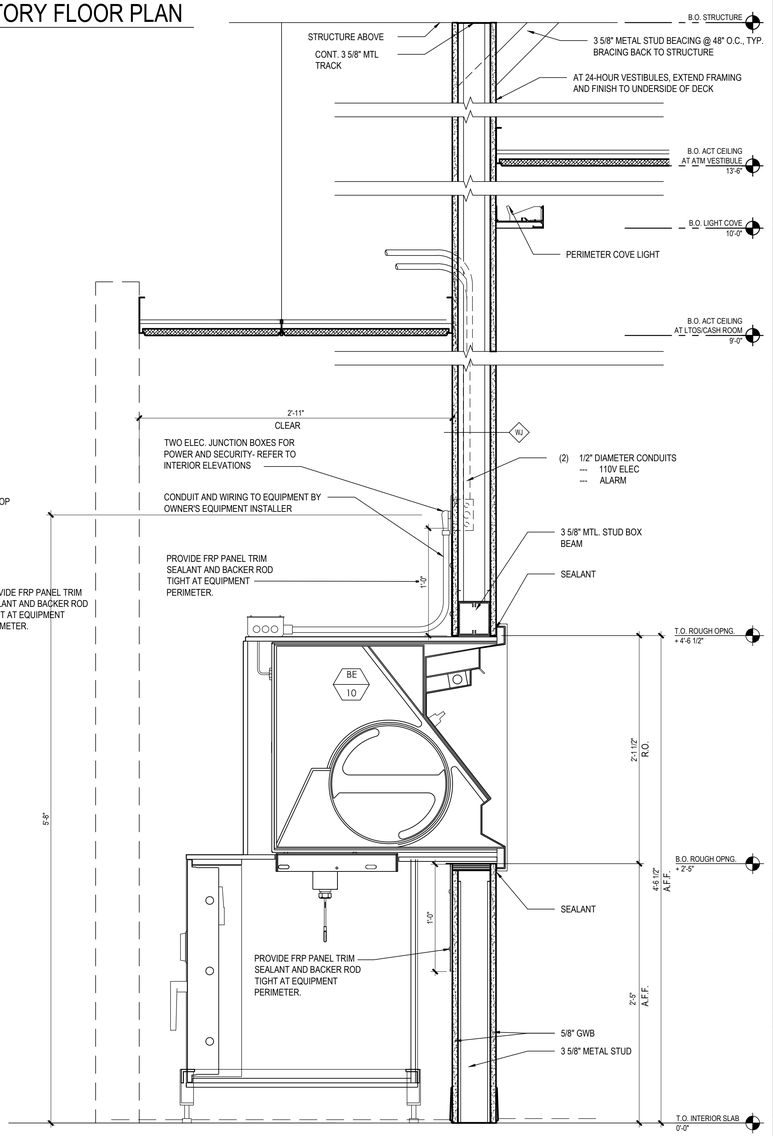
4 A5.2.2 INT. THROUGH WALL WALK UP ATM

1 1/2" = 1'-0"



1 A5.2.2 INTERIOR THRU-WALL AFTER-HOURS DEPOSITORY

1 1/2" = 1'-0"



CHASE

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ARCHITECT OF RECORD

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January 08, 2021
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ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

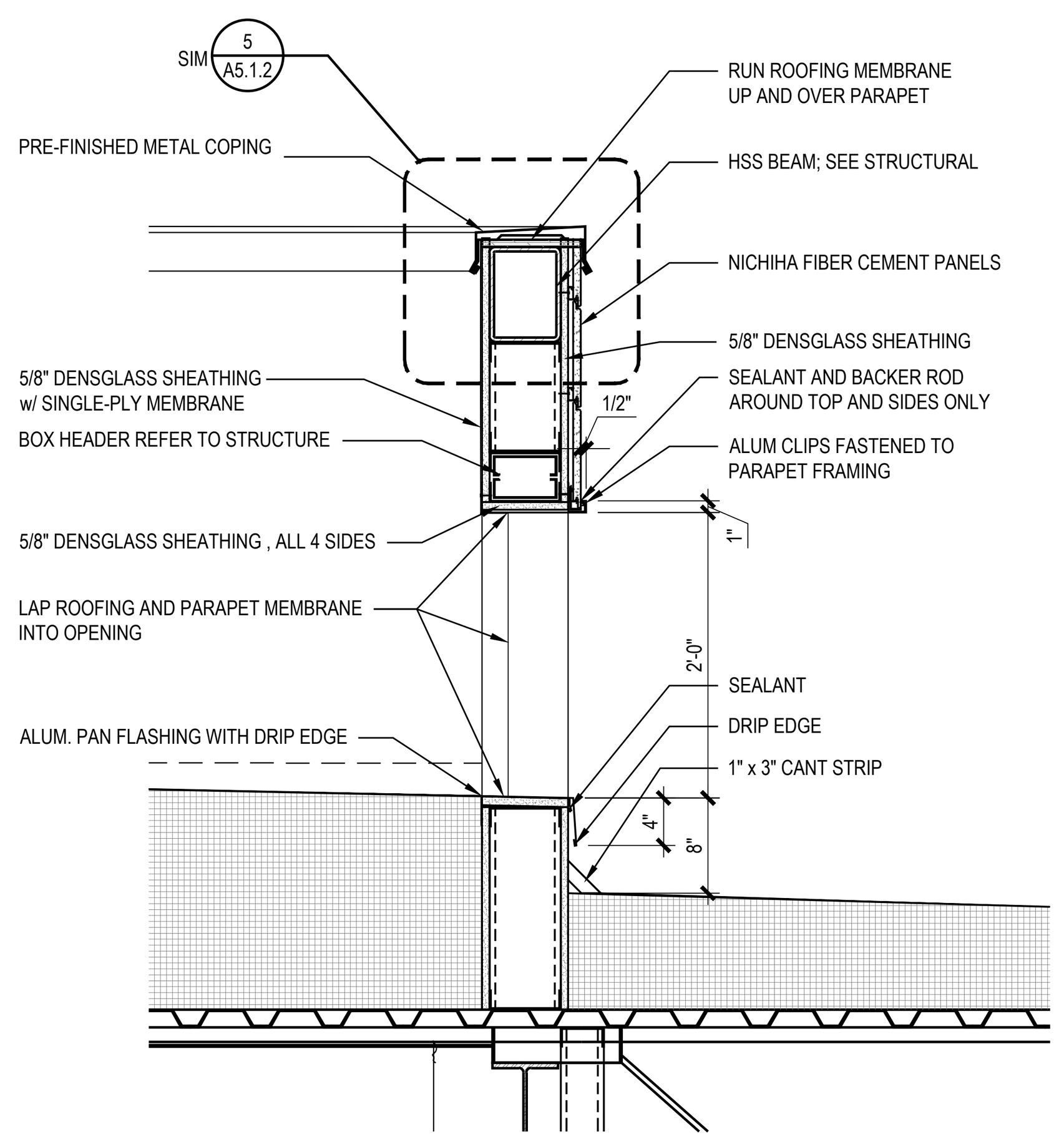
SHEET TITLE

INTERIOR THROUGH-WALL WALK-UP ATM & AFTER-HOURS DEPOSITORY

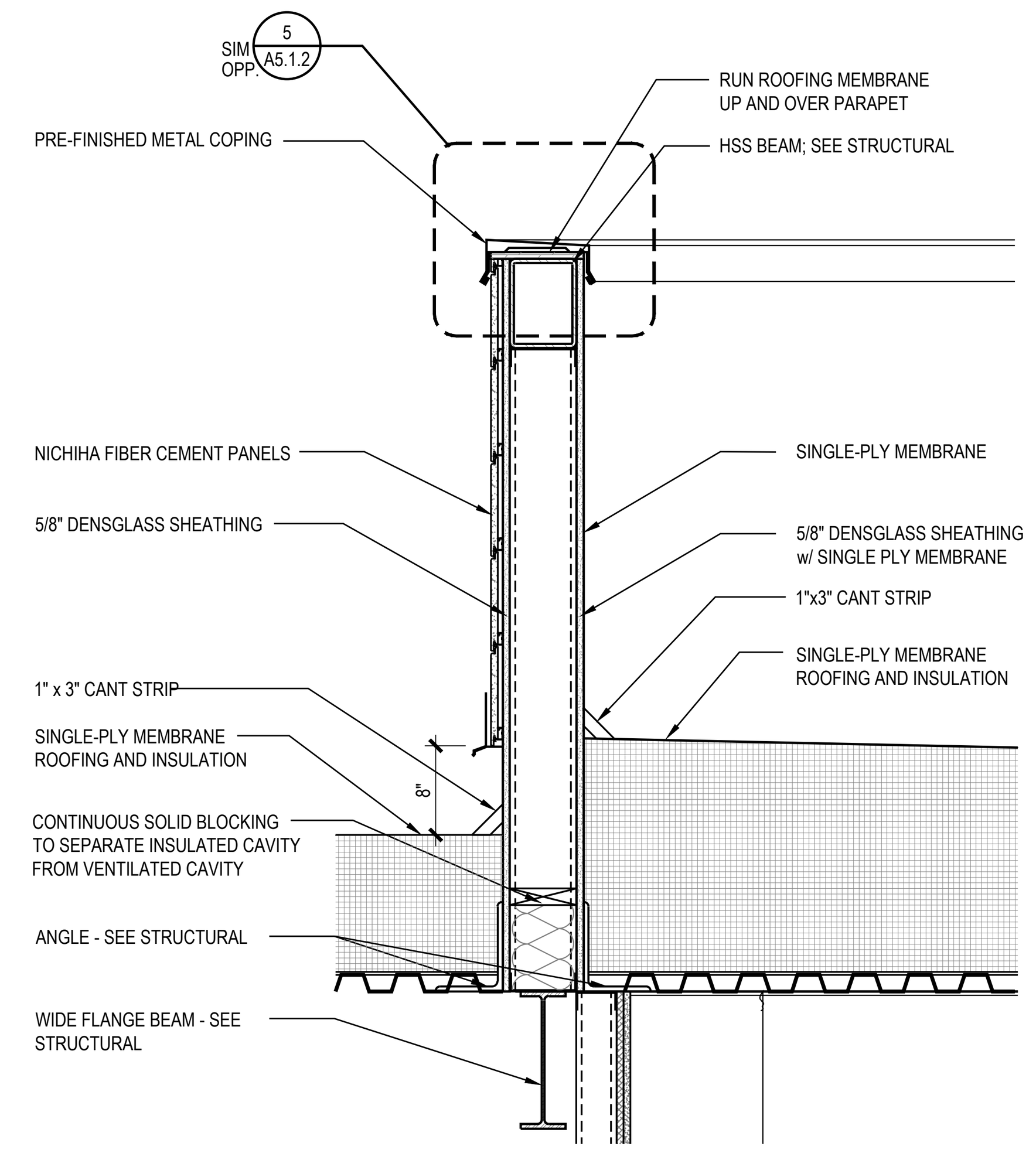
SHEET NUMBER

A5.2.2

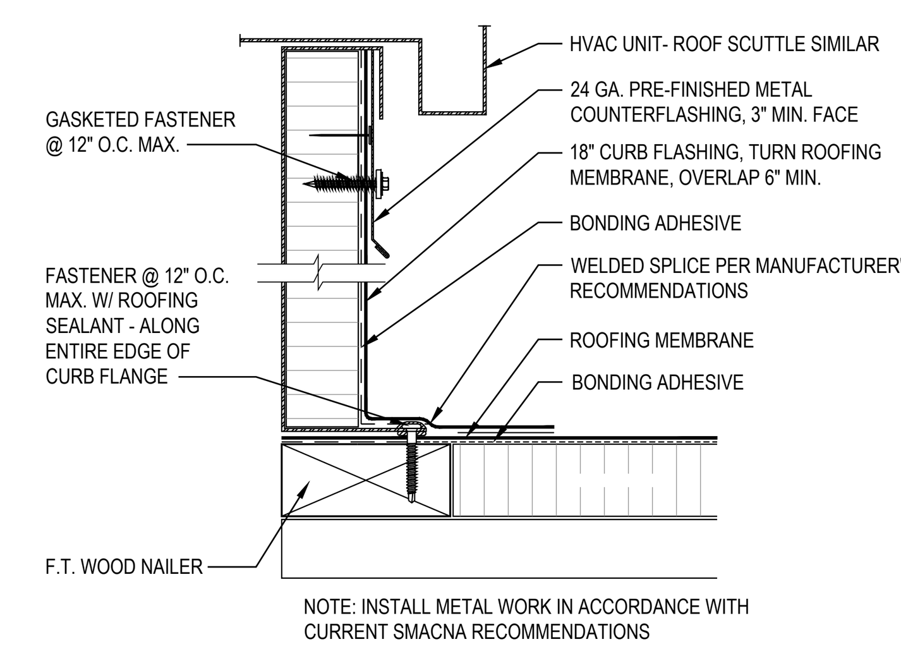
NOTE: ALL WOOD BLOCKING & PLYWOOD SHALL BE FIRE-TREATED.



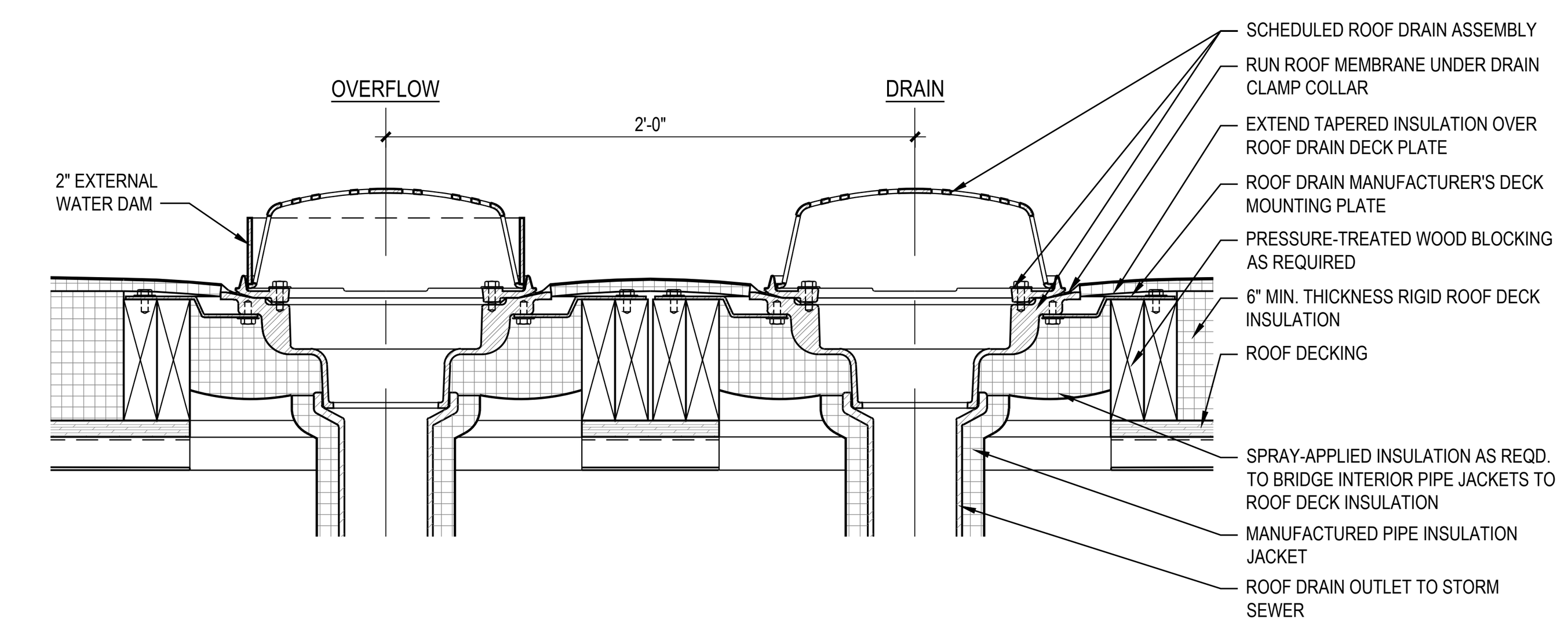
8 A5.3.1 ACCESS OPENING SECTION
3/4" = 1'-0"



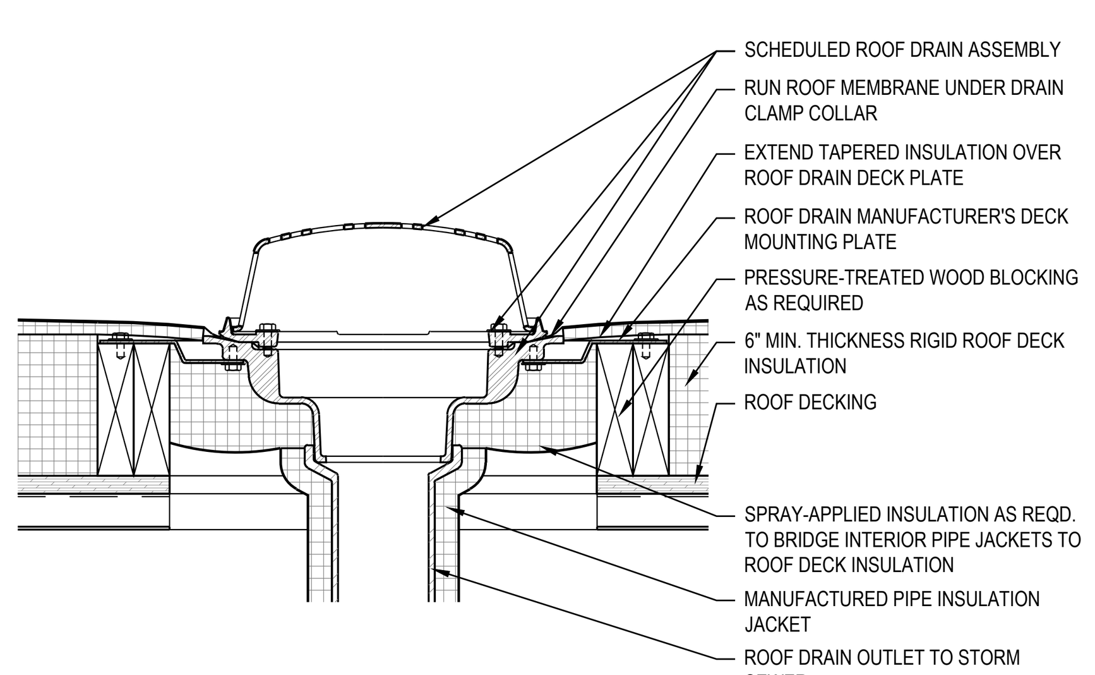
7 A5.3.1 ROOF/ PARAPET TRANSITION
3/4" = 1'-0"



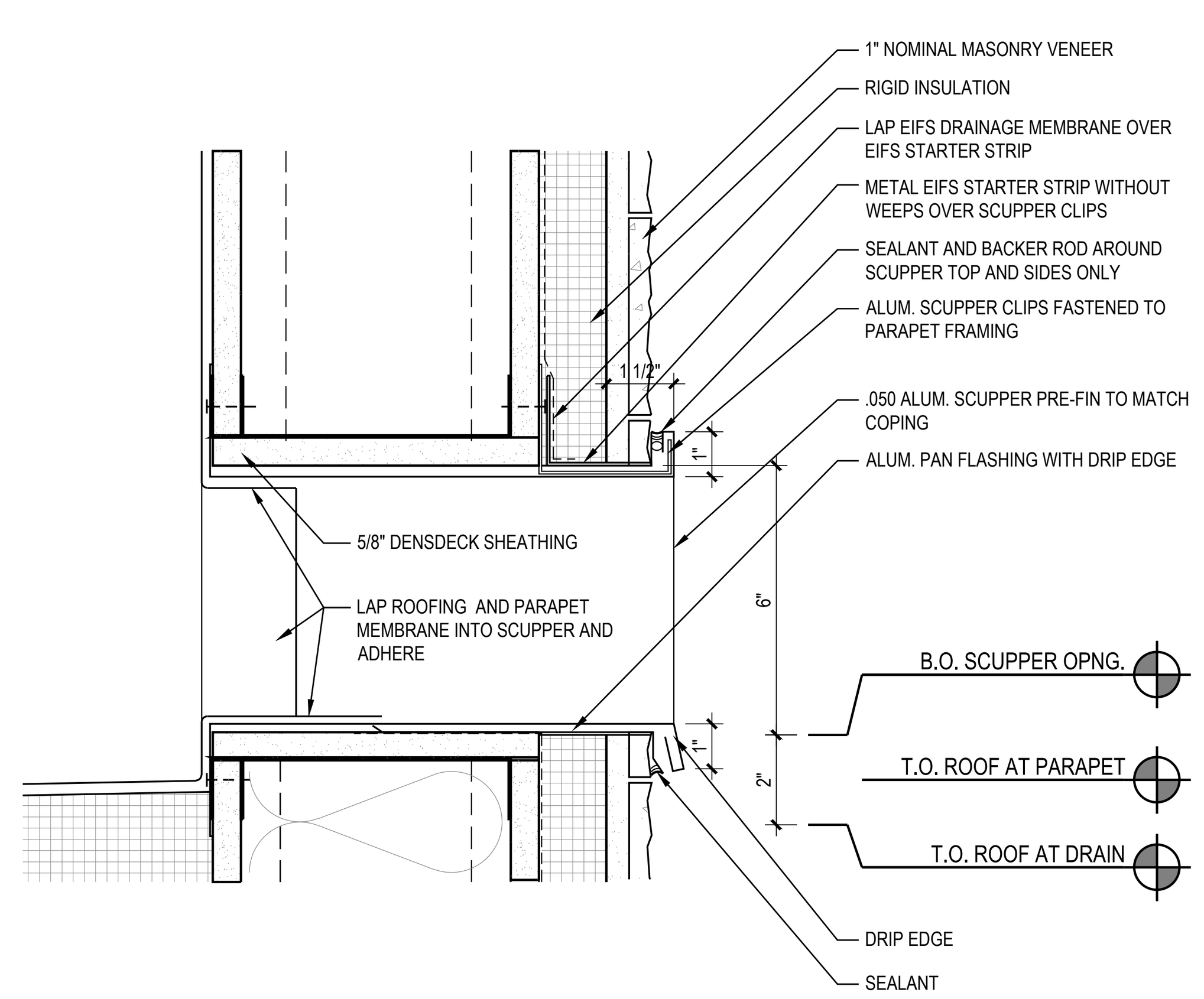
6 A5.3.1 ROOF EQUIPMENT CURB
3" = 1'-0"



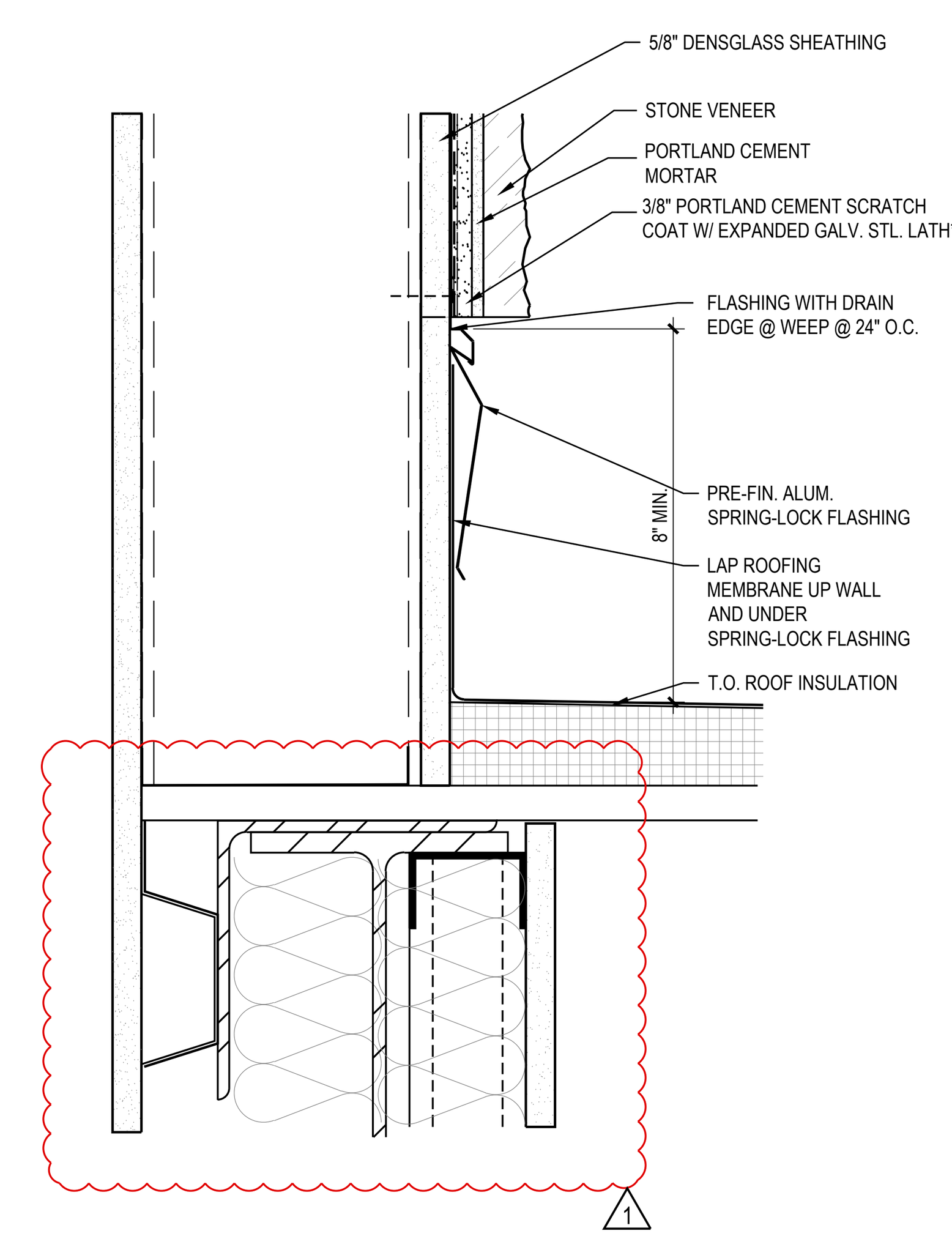
5 A5.3.1 ROOF DRAIN WITH OVERFLOW
1 1/2" = 1'-0"



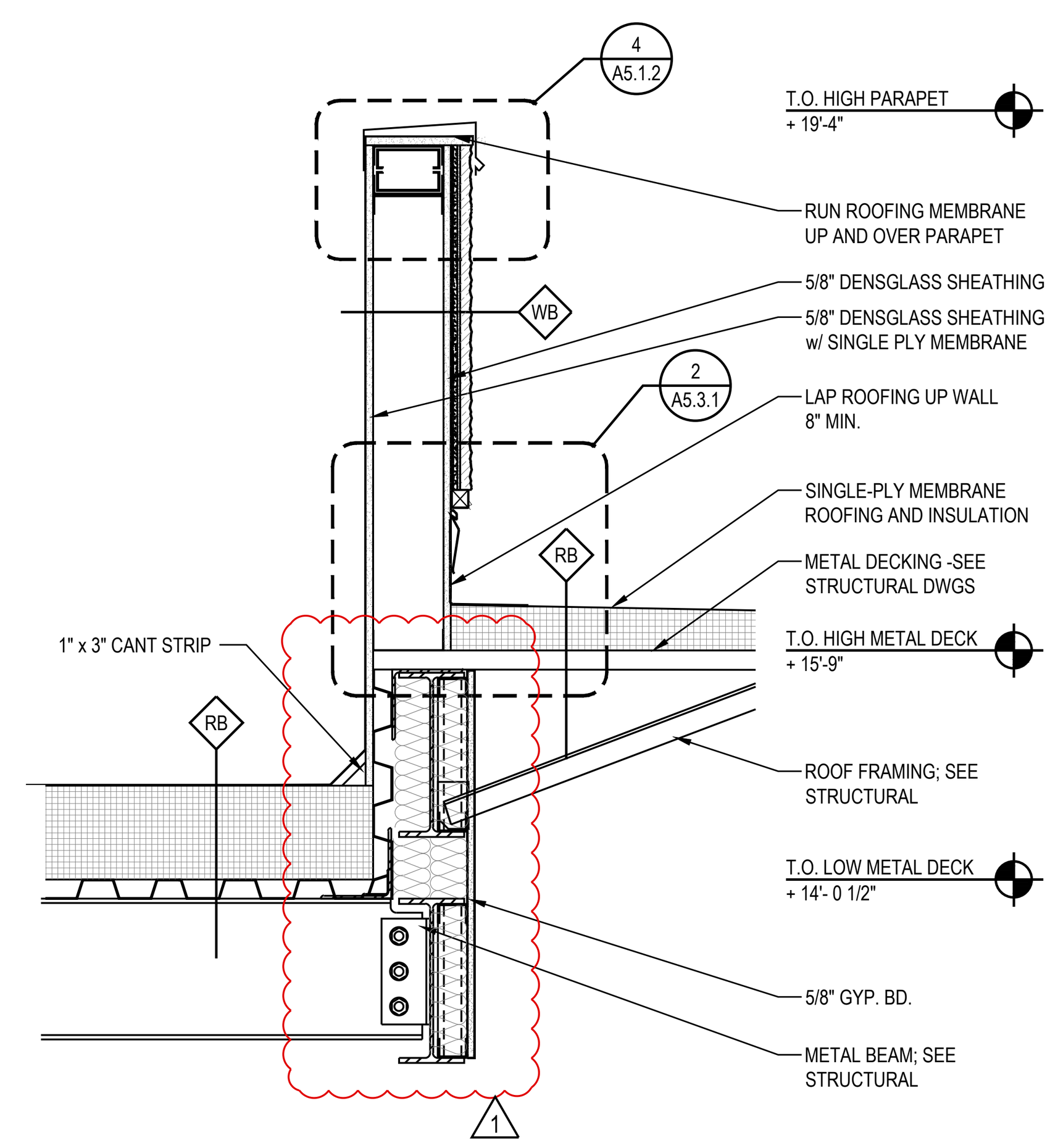
4 A5.3.1 TYPICAL ROOF DRAIN
1 1/2" = 1'-0"



3 A5.3.1 OVERFLOW SCUPPER
3" = 1'-0"



2 A5.3.1 ROOF/ WALL FLASHING
3" = 1'-0"



1 A5.3.1 ROOF/ PARAPET TRANSITION
3/4" = 1'-0"

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

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314.843.4320
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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
April 21, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

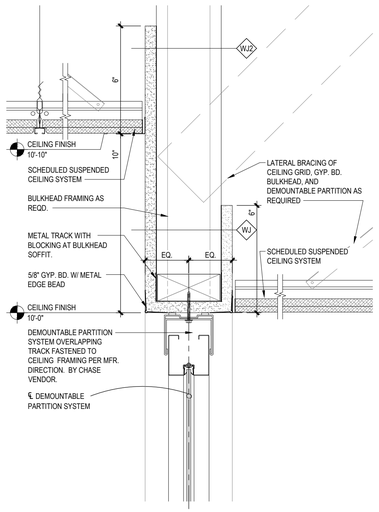
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

DETAILS:
ROOF

SHEET NUMBER

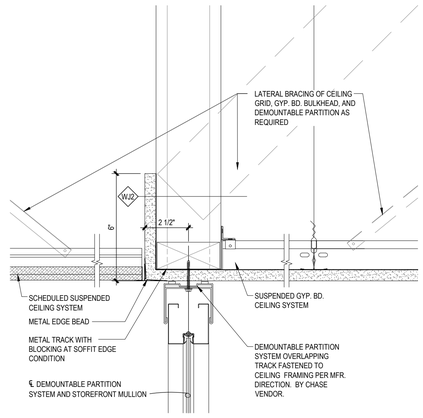
A5.3.1



7 A5.3.3

TYP. OFFICE / LOBBY AT DEMOUNTABLE PARTITION - CENTERED

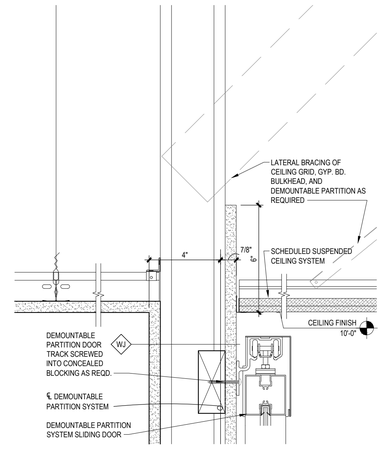
3" = 1'-0"



6 A5.3.3

TYP. OFFICE / CONFERENCE AT DEMOUNTABLE PARTITION

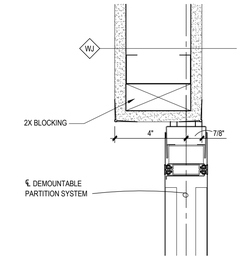
3" = 1'-0"



5 A5.3.3

DEMOUNTABLE PARTITION SLIDING DOOR TRACK

3" = 1'-0"



4 A5.3.3

TYP. GYPSUM JAMB AT DEMOUNTABLE PARTITION

3" = 1'-0"

3 A5.3.3

TYP. OFFICE / LOBBY AT DEMOUNTABLE PARTITION DOOR

3" = 1'-0"

2 A5.3.3

TYP. OFFICE / OFFICE AT DEMOUNTABLE PARTITION

3" = 1'-0"

1 A5.3.3

TYP. CONFERENCE / LOBBY AT DEMOUNTABLE PARTITION

3" = 1'-0"

CHASE

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

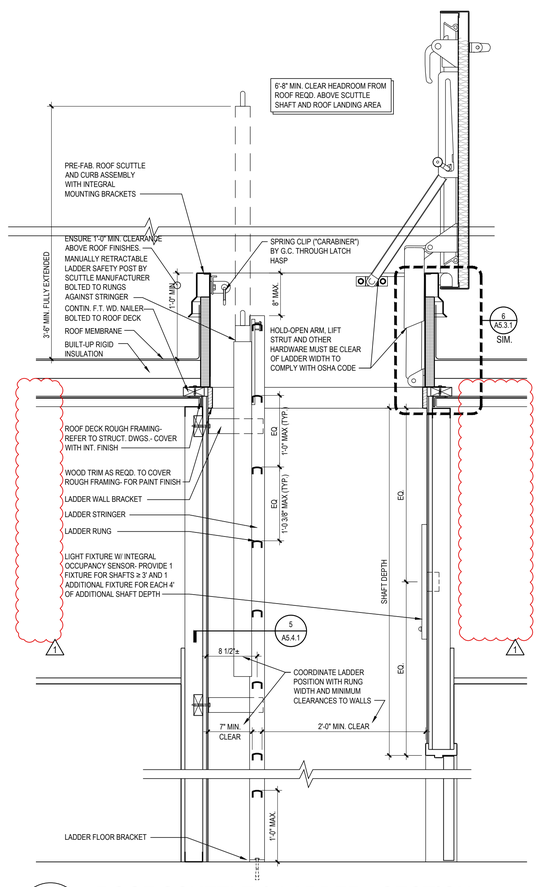
SHEET TITLE

INTERIOR DETAILS:
DEMOUNTABLE PARTITIONS
CEILING TRANSITIONS

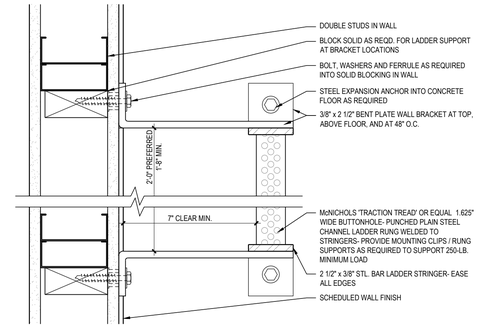
SHEET NUMBER

A5.3.3

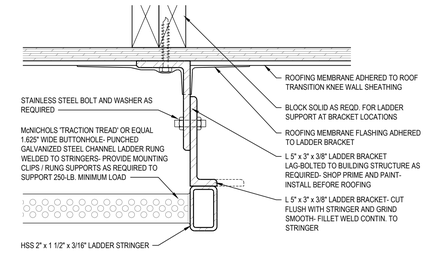
NOTE: ALL WOOD BLOCKING & PLYWOOD SHALL BE FIRE-TREATED.



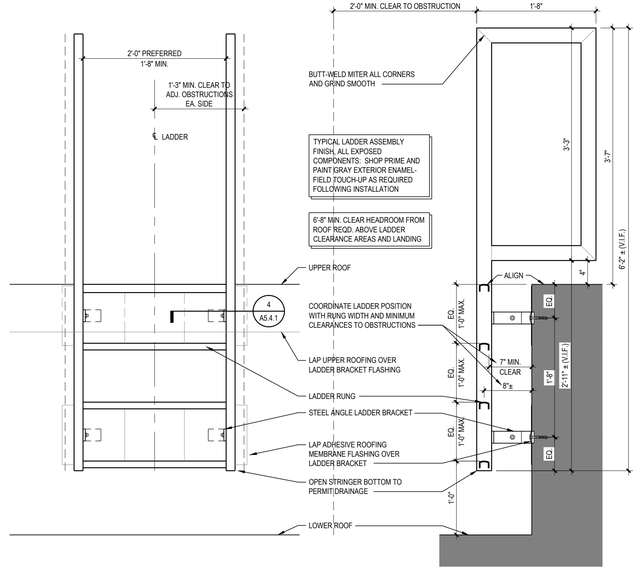
3 A5.4.1 ROOF SCUTTLE & LADDER - SECTION
1" = 1'-0"



5 A5.4.1 ROOF SCUTTLE LADDER- SECTION
3" = 1'-0"



4 A5.4.1 ROOF TRANSITION LADDER- SECTION
3" = 1'-0"



2 A5.4.1 ROOF TRANSITION LADDER - ELEVATIONS
1" = 1'-0"

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
April 21, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

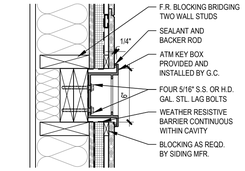
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

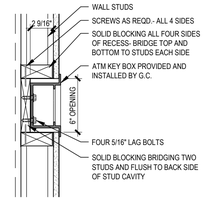
DETAILS:
EXTERIOR ENVELOPE,
ROOF SCUTTLE, AND
LADDERS

SHEET NUMBER

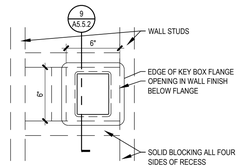
A5.4.1



EXTERIOR PARTITION

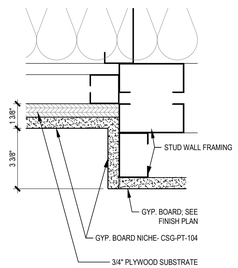


INTERIOR PARTITION

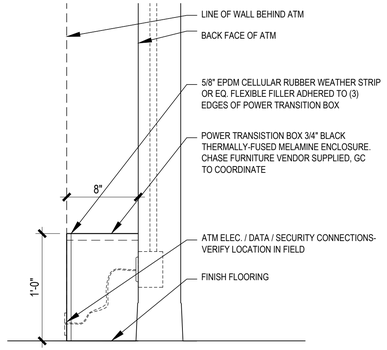


9 A5.5.2 — ATM KEY BOX- SECTION
1-1/2" = 1'-0"

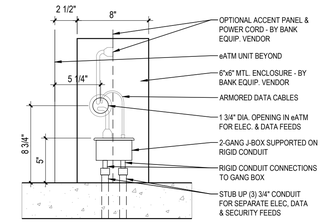
8 A5.5.2 — ATM KEY BOX- ELEVATION
1-1/2" = 1'-0"



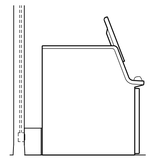
10 A5.5.2 — SCREEN NICHE
3" = 1'-0"



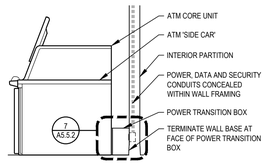
7 A5.5.2 — MILLWORK POWER TRANSITION BOX
1 1/2" = 1'=0"



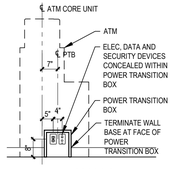
6 A5.5.2 — FREESTANDING eATM - ELEC./DATA/ SECURITY ROUGH-INS (VERT.)
1 1/2" = 1'=0"



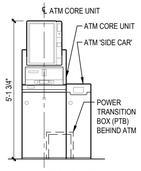
LEFT SIDE



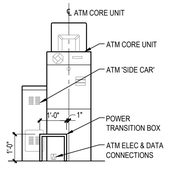
RIGHT SIDE



WALL

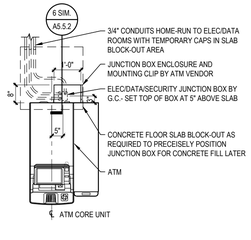


FRONT

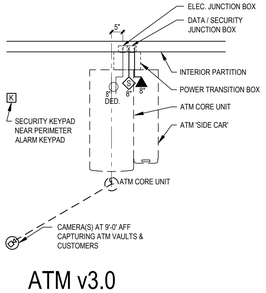


BACK

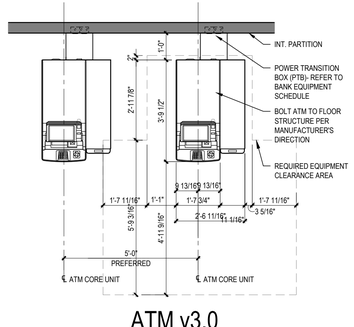
5 A5.5.2 — ATM v3.0 ELEVATIONS
3/8" = 1'-0"



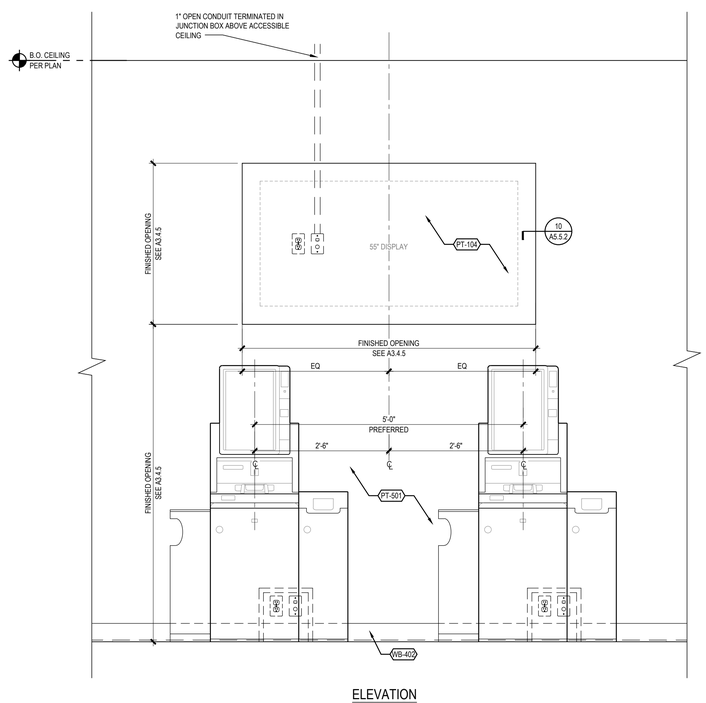
4 A5.5.2 — ATM v3.0 FREESTANDING PLAN
3/8" = 1'-0"



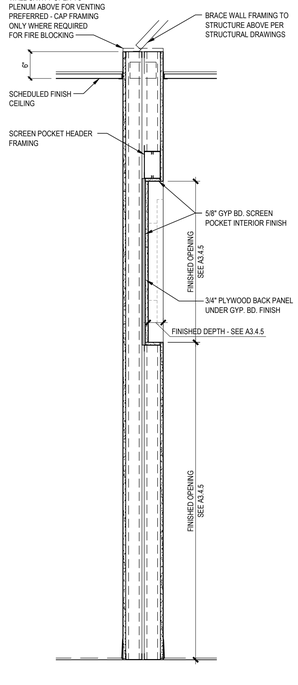
3 A5.5.2 — ATM v3.0 ELEC./DATA/SEC. PLAN
3/8" = 1'-0"



2 A5.5.2 — ATM v3.0 FLOOR PLAN
3/8" = 1'-0"



ELEVATION



SECTION

1 A5.5.2 — SOLUTION #1-55" DISPLAY AT eATMS V3.0
3/4" = 1'-0"

CHASE

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LASURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

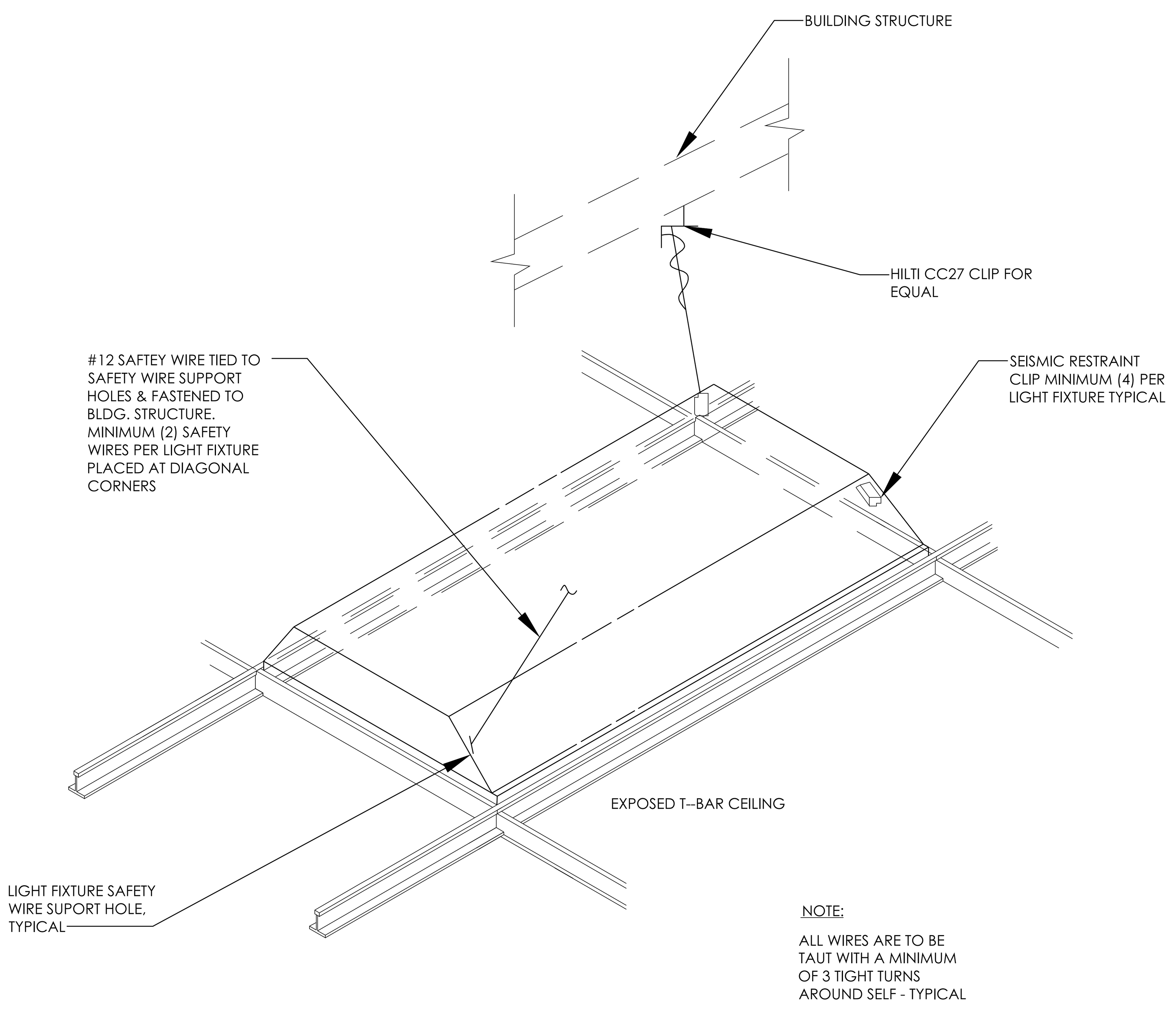
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

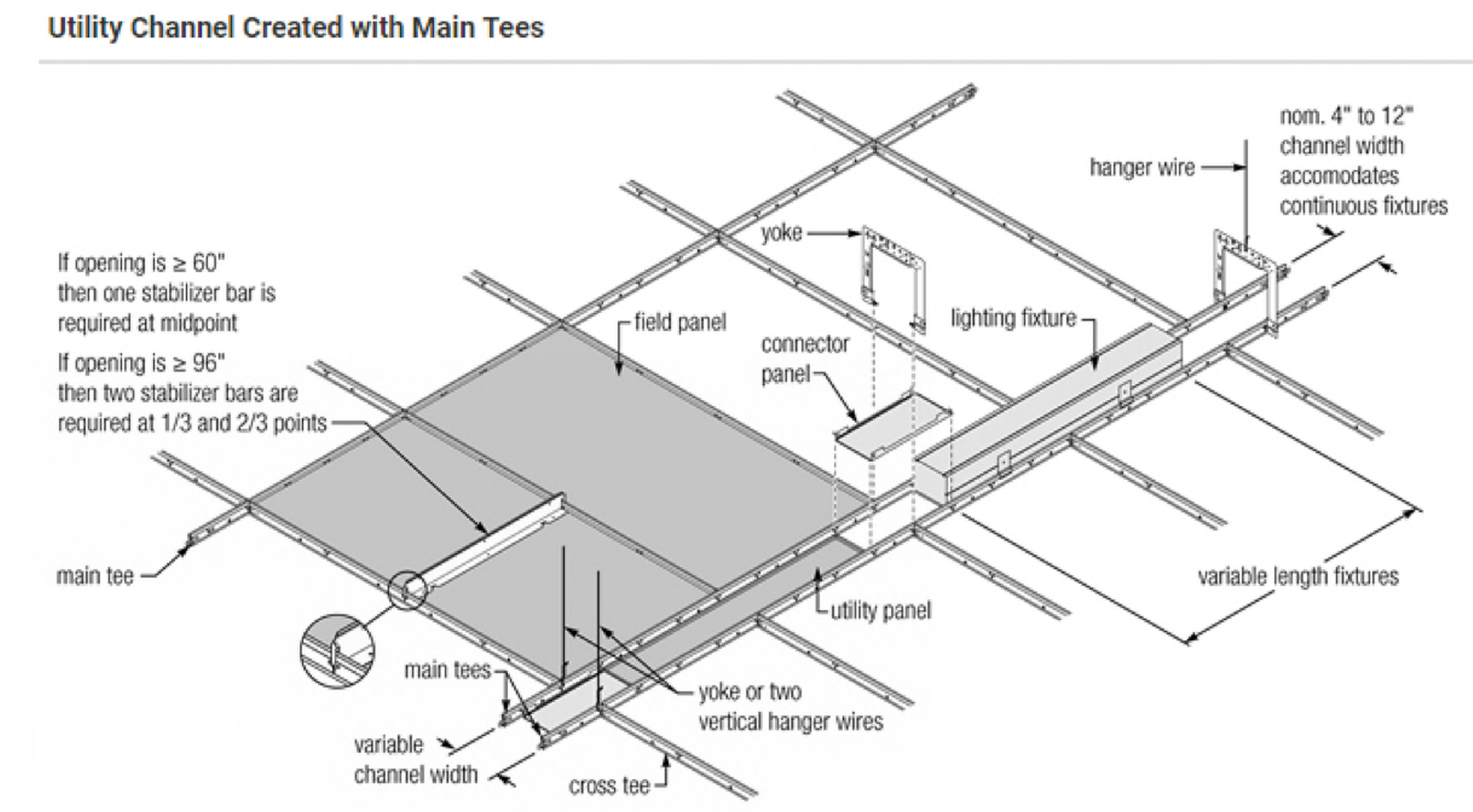
DETAILS: ATM

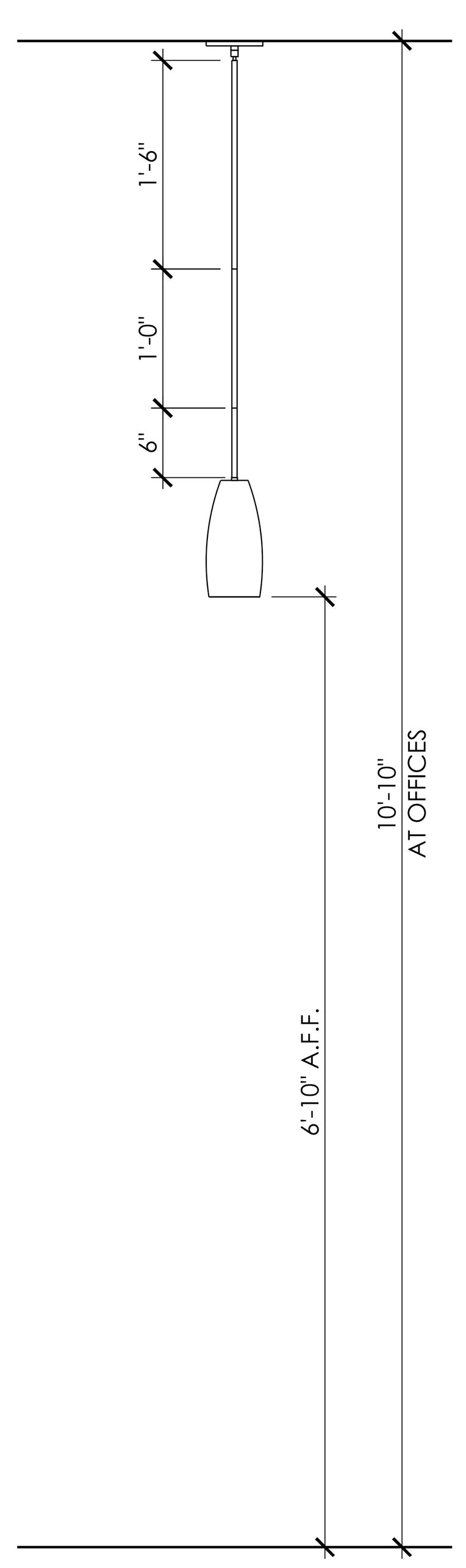
SHEET NUMBER

A5.5.2

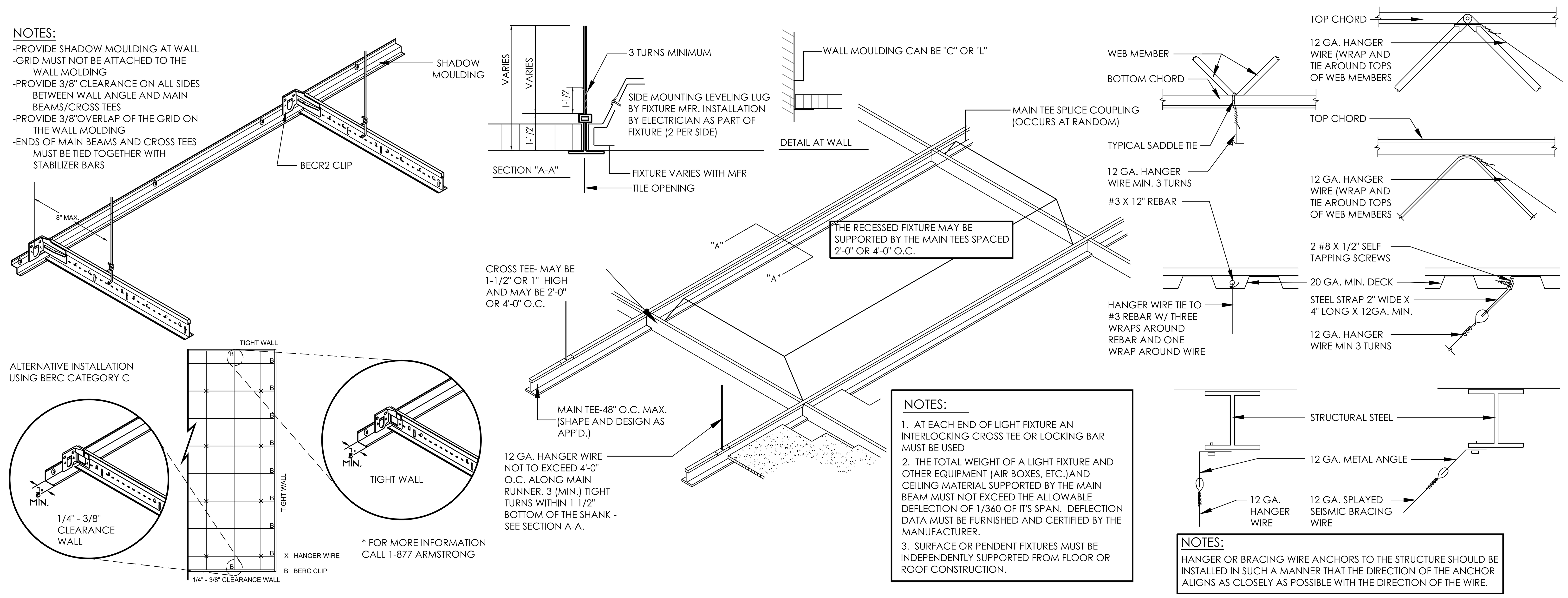


3 A5.5.4 LIGHT FIXTURE DETAIL
1/4" = 1'-0"





2 A5.5.4 OFFICE PENDANT LIGHT DETAIL
3/4" = 1'-0"



NOTES:
1. AT EACH END OF LIGHT FIXTURE AN INTERLOCKING CROSS TEE OR LOCKING BAR MUST BE USED
2. THE TOTAL WEIGHT OF A LIGHT FIXTURE AND OTHER EQUIPMENT (AIR BOXES, ETC.)AND CEILING MATERIAL SUPPORTED BY THE MAIN BEAM MUST NOT EXCEED THE ALLOWABLE DEFLECTION OF 1/360 OF IT'S SPAN. DEFLECTION DATA MUST BE FURNISHED AND CERTIFIED BY THE MANUFACTURER.
3. SURFACE OR PENDENT FIXTURES MUST BE INDEPENDENTLY SUPPORTED FROM FLOOR OR ROOF CONSTRUCTION.

NOTES:
HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

1 A5.5.4 CELING GRID - SEISMIC 'B' DETAILS
1/4" = 1'-0"

CHASE
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890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
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ARCHITECT OF RECORD
STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT
ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

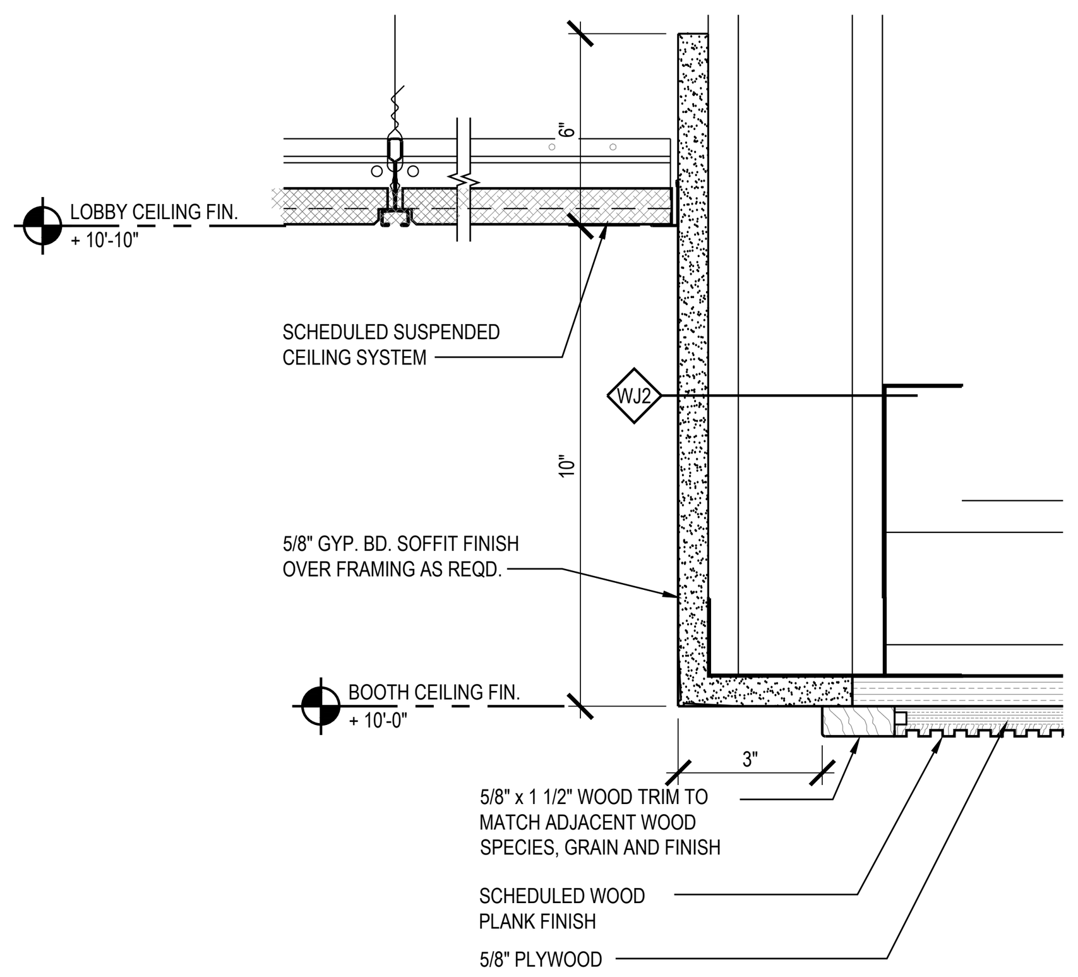
ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

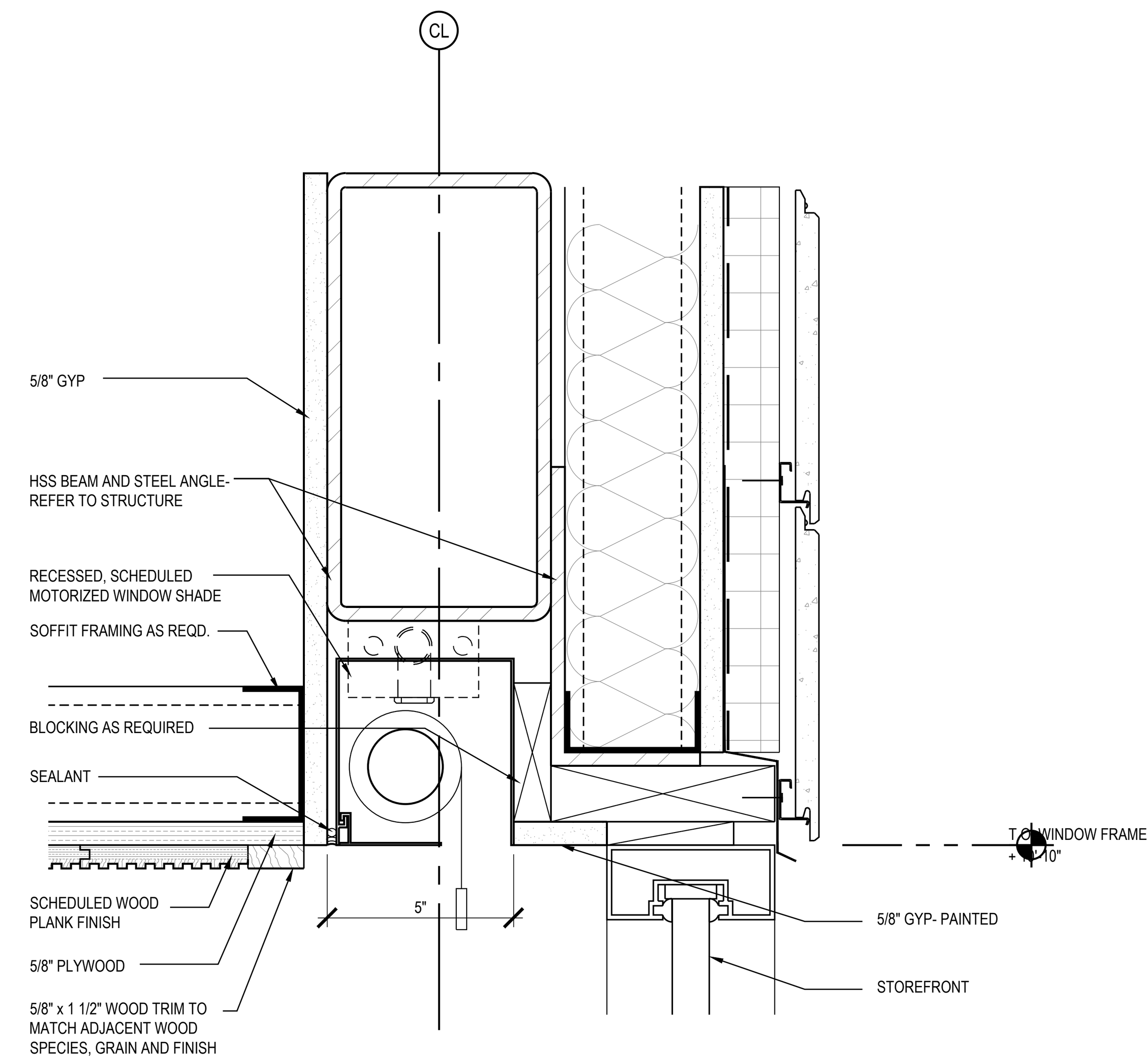
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LoSURS
VERSION:	SE_1.00

SHEET TITLE
DETAILS: CEILING SEISMIC DESIGN 'B'

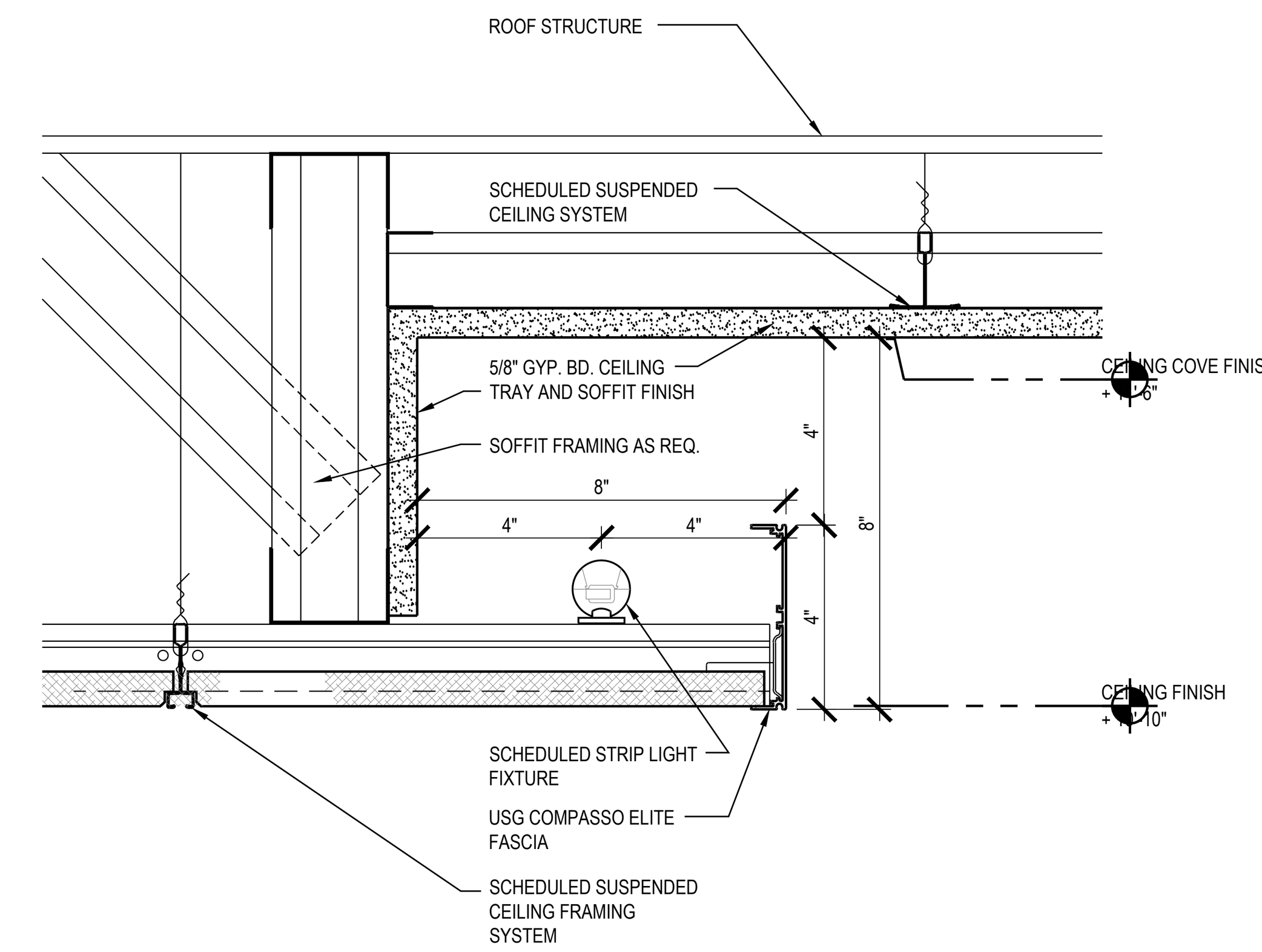
SHEET NUMBER
A5.5.4



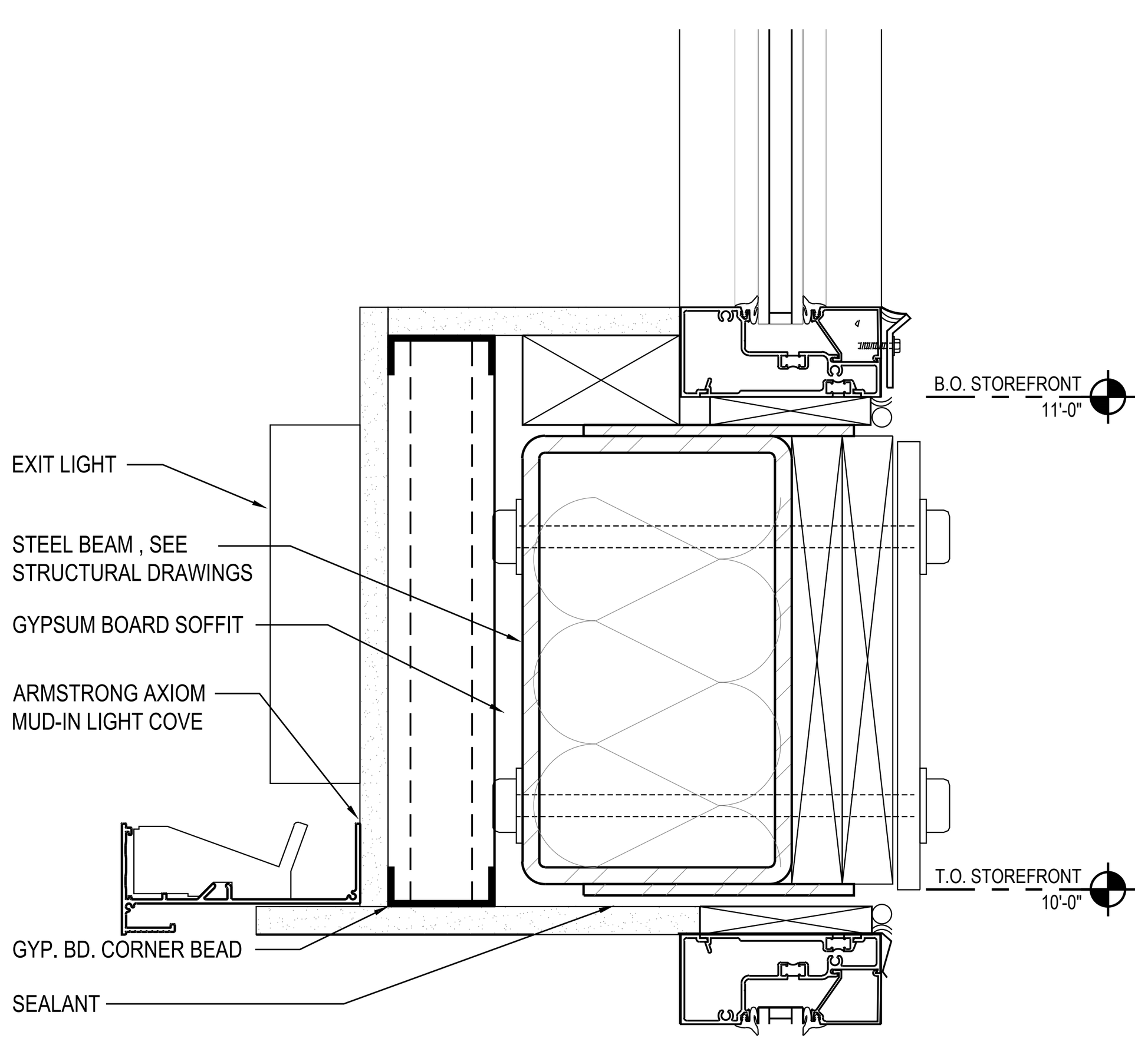
6 A5.5.5 BOOTH SOFFIT
3" = 1'-0"



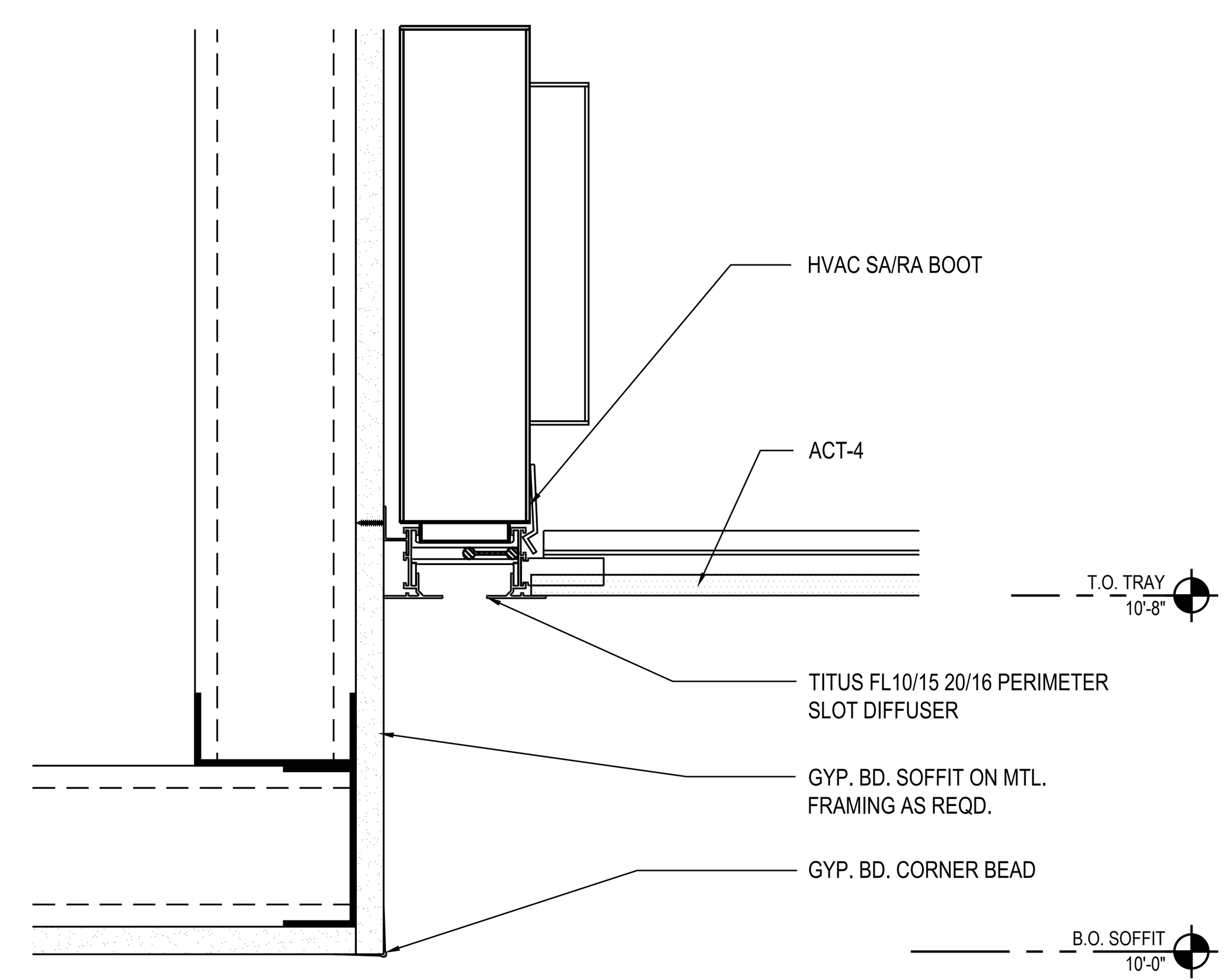
5 A5.5.5 BOOTH SHADE POCKET
3" = 1'-0"



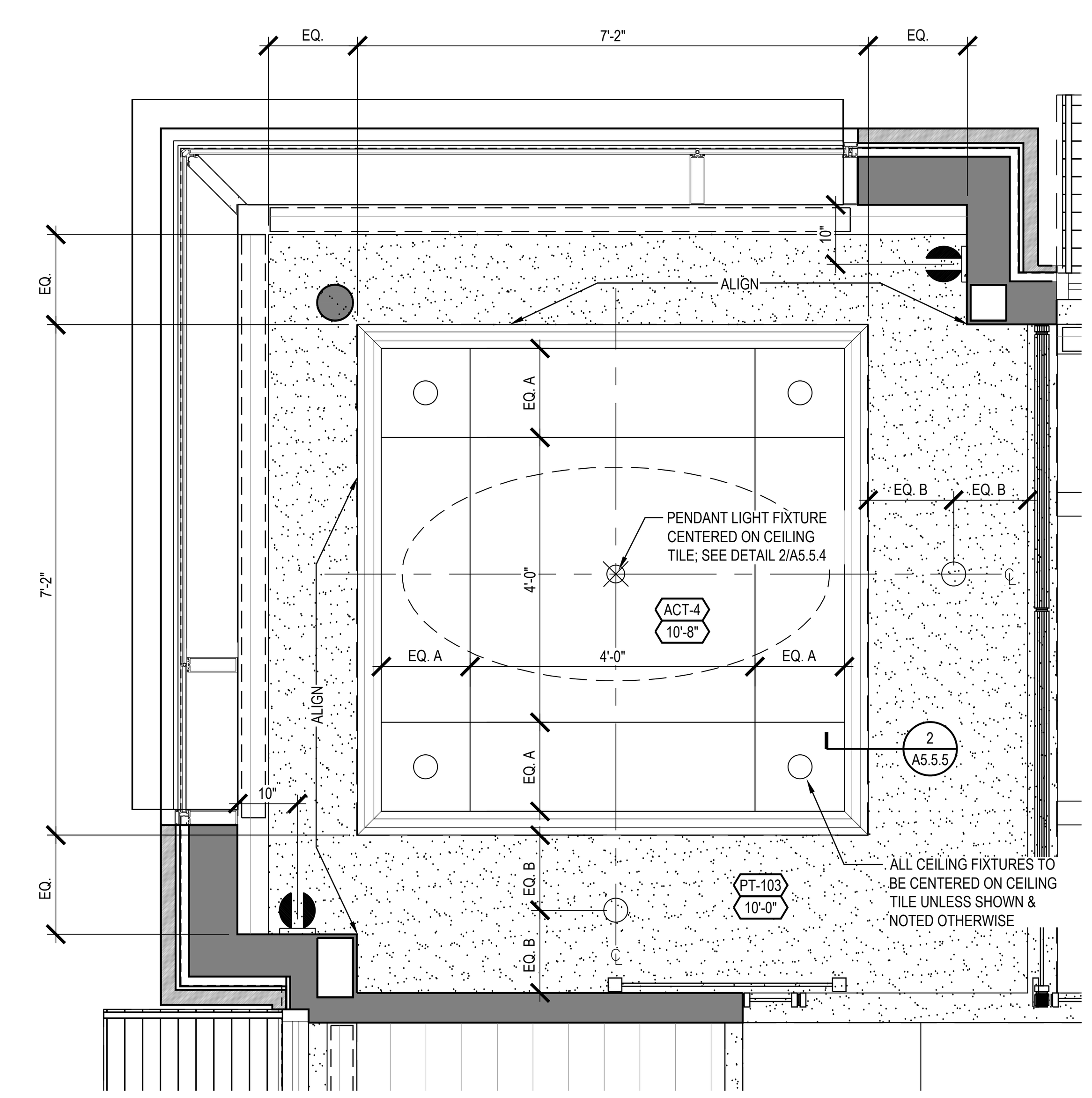
4 A5.5.5 LOBBY COVE CEILING TRANSITION AT DRT
3" = 1'-0"



3 A5.5.5 VESTIBULE LIGHT COVE
3" = 1'-0"



2 A5.5.5 CEILING TRAY TRANSITION IN CONFERENCE ROOM
3" = 1'-0"



1 A5.5.5 CONFERENCE ROOM CEILING PLAN DETAIL
1/2" = 1'-0"

CHASE
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CORESTATES, INC.
COA #: A-2014026908
ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

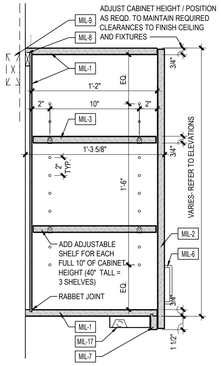
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

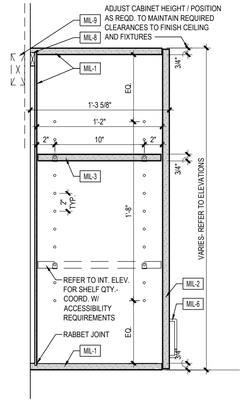
DETAILS: CEILING

SHEET NUMBER

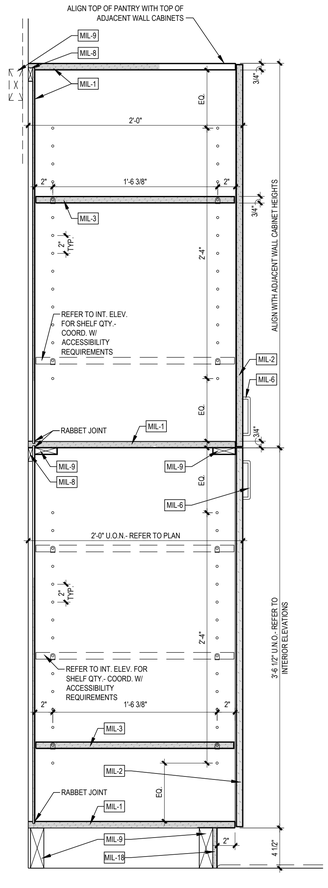
A5.5.5



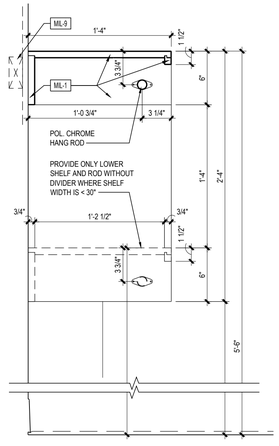
9 A5.6.1 — WALL CABINET W/ DOORS & LIGHT FIXTURE
1 1/2" = 1'-0"



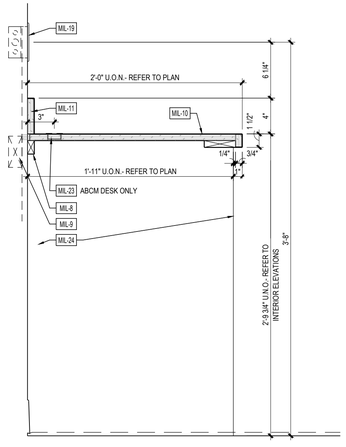
8 A5.6.1 — WALL CABINET W/ DOORS
1 1/2" = 1'-0"



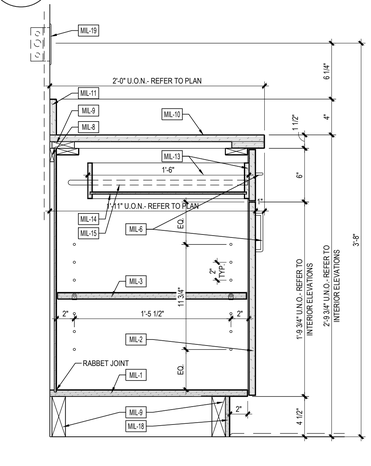
4 A5.6.1 — PANTRY
1 1/2" = 1'-0"

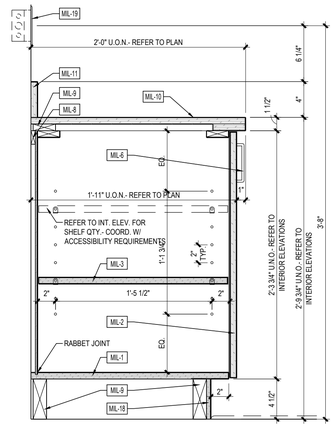


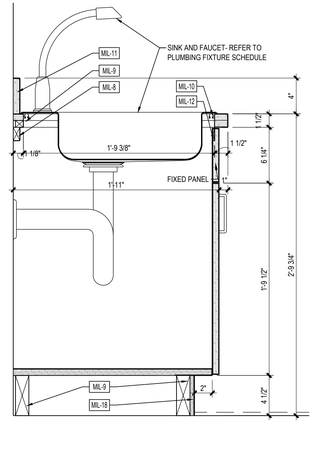
3 A5.6.1 — DOOR / DRAWER BASE CABINET
1 1/2" = 1'-0"



2 A5.6.1 — OPEN LAMINATE COUNTER
1 1/2" = 1'-0"







STANDARD SINK BASE

1 A5.6.1 — SINK BASE CABINET
1 1/2" = 1'-0"

CUSTOM CABINET NOTES

SUBMIT SHOP DRAWINGS AND MATERIALS TO ARCHITECT OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION	
REFER TO INTERIOR FINISH MATERIALS SCHEDULE FOR LAMINATE SPECIFICATIONS	
MIL-1	CABINET TOP / BOTTOM / SIDE PANEL: 3/4" PLASTIC LAMINATE MDF ALL EXPOSED SURFACES - INTERIOR SURFACES WHITE MELAMINE
MIL-2	CABINET DOOR: 3/4" PLASTIC LAMINATE MDF ALL 6 FACES
MIL-3	ADJUSTABLE SHELF: 3/4" PLASTIC LAMINATE MDF ALL 6 FACES - PROVIDE FOUR 5MM NICKEL-PLATED SPOON-SHAPED PINS EACH SHELF-DRILL 5MM HOLES IN CABINET SIDE PANELS AS NOTED
MIL-4	CABINET BACK: 1/4" PLASTIC LAMINATE MDF EXPOSED FACE
MIL-5	SURFACE-MOUNT ELECTRICAL / DATA RACEWAY
MIL-6	WIRE PULL
MIL-7	LIGHT VALENCE: 3/4" PLASTIC LAMINATE MDF EXPOSED FACES
MIL-8	CONTINUOUS WOOD CLEAT: SIZE AS REQUIRED-PAINT TO MATCH ADJACENT WALL SURFACE
MIL-9	WOOD BLOCKING AS REQUIRED
MIL-10	COUNTER TOP: REFER TO INTERIOR FINISH MATERIALS SCHEDULE
MIL-11	COUNTER SPLASH: MATCH COUNTER TOP MATERIAL
MIL-12	COUNTER APRON: MATCH COUNTER TOP MATERIAL
MIL-13	DRAWER BACK / SIDE / SUB-FRONT: 1/2" WHITE MELAMINE MDF
MIL-14	DRAWER BOTTOM: 1/4" WHITE MELAMINE MDF
MIL-15	DRAWER SLIDE: FULL-EXTENSION BALL-BEARING
MIL-16	COUNTER EDGE SUPPORT: CONT. STEEL ANGLE BOLTED TO SOLID WOOD BLOCKING CONCEALED WITHIN WALLS- RE-PRIME FOLLOWING INSTALLATION
MIL-17	SCHEDULED LIGHT FIXTURE
MIL-18	TOE-KICK: 1/2" MINIMUM PLASTIC LAMINATE MDF- COLOR AND PATTERN TO MATCH CABINET PANELS
MIL-19	ELECTRICAL / DATA ROUGH-IN AND COVER PLATE
MIL-20	SINK APRON: 3/4" PLASTIC LAMINATE MDF
MIL-21	COUNTER EQUIPMENT SUPPORT: 1 1/2" x 1 1/2" x 1/4" STEEL ANGLE BOLTED TO CABINET BACK , SIDES AND APRON - PRIME AND PAINT TO MATCH CABINET COLOR
MIL-22	GROMMET: MOCKET #BRKIT 12" BLACK LINEAR BRUSH GROMMET
MIL-23	GROMMET: MOCKET #BG 1 1/2" ROUND BLACK PLASTIC GROMMET
MIL-24	COUNTER SUPPORT: 3/4" THICK PLASTIC LAMINATE MDF PANEL MATCHING COUNTER DEPTH- QUANTITY AND POSITIONS AS REQUIRED TO ENSURE MAX. COUNTER DEFLECTION OF L/768 (1/8" OVER 8')
MIL-25	CABINET TOP / BOTTOM / SIDE / DOOR PANEL: 3/4" PLASTIC LAMINATE MDF ALL SURFACES EXPOSED TO VIEW, INCLUDING INTERIOR- REFER TO INTERIOR FINISH SCHEDULE FOR LAMINATE SPECIFICATION
MIL-26	SOLID SURFACE COUNTER: 2" BUILT-UP FRONT EDGES, OPENINGS, AND VERTICAL PANELS, ALL CONTACT EDGES EASED- REFER TO INTERIOR FINISH SCHEDULE FOR MATERIAL SPECIFICATION
MIL-27	REFUSE CAN TRAY, 36-QT PLASTIC CAN, AND DRAWER GLIDES ATTACHED TO CABINET BOTTOM AND DRAWER PANELS
MIL-28	OPEN COUNTER SUPPORT BRACKET: CENTERLINE BRACKETS #CSA-004-20, COLOR WHITE- 24" MAX. O.C.- CUT MINIMAL OPENING IN WALL FINISH AS REQD, LAG-SCREW TO WALL STUDS OR BLOCKING- PATCH WALL FINISH OPENING
MIL-29	ELECTRICAL / DATA OUTLETS: COORD. WITH ELECTRICIAN TO PROVIDE MUD RING OF SUFFICIENT DEPTH TO REACH CABINET BACK- INSTALL OVER PLATES OVER CABINET BACK
MIL-30	CONTINUOUS COUNTER UNDERLAYMENT: 3/4" PLYWOOD- PROVIDE WHITE PLASTIC LAMINATE FACE AT UNDERSIDE OF OPEN COUNTER SECTIONS
MIL-31	STOP: 1/2" x 3/4" EASED-EDGE PAINT GRADE-WOOD
MIL-32	CABINET PULL: AMEROCK #BP55364G10 'RIVA' IN SATIN NICKEL, 3" CTC
MIL-33	HARDWOOD FIN: 1" x 3 1/2" AND 2" x 9 1/4" SOLID AND VENEER NATURAL RED OAK FOR STAIN AND CLEAR FINISH- REFER TO FINISH MATERIALS SCHEDULE- MITER CORNERS OF ASSEMBLIES TO CONCEAL JOINTS
MIL-34	PAINTED CABINET BACK: 1/2" MDF FOR PAINT FINISH- REFER TO FINISH MATERIAL SHEDULE FOR PAINT SPECIFICATIONS
MIL-35	FIN PLINTH: SOLID RED OAK FOR STAIN AND CLEAR FINISH PER MATERIALS FINISH SCHEDULE- APPLY FACE BOARD WITH MINIMAL FINISH NAILS TO FACILITATE REPLACEMENT
MIL-36	SACRIFICIAL BASE: 1/2" x 4" SOLID RED OAK FOR STAIN AND CLEAR FINISH- APPLY WITH MINIMAL FINISH NAILS TO FACILITATE REPLACEMENT
MIL-37	REFUSE OPENING: 4" DIAM. HOLE WITH 2" BUILT-UP EASED EDGE
MIL-38	FACE-FRAME CABINET SIDE PANEL: EXTENDED 3/4" PLASTIC LAMINATE MDF CABINET SIDE PANEL AND FACE ALIGNED WITH HARDWOOD FIN ABOVE
MIL-39	FIXED DRAWER SHELF: PLASTIC LAMINATE

GROMMET NOTES

GC TO PROVIDE GROMMETS TO BE FIELD-LOCATED BY CHASE BRANCH BANK STAFF AND INSTALLED BY GC AT TURNOVER.

(2) - DOUG MOCKETT AG SERIES - 3/4" WHITE AT MANUAL TRANSACTION MILLWORK.
(2) - DOUG MOCKETT OG3 - 1" WHITE AT MANUAL TRANSACTION MILLWORK
(5) - DOUG MOCKETT BG3 1-1/2" WHITE
(6) - DOUG MOCKETT BG3 1-1/2" BLACK

CHASE

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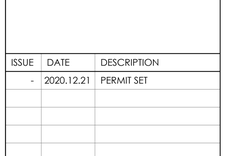
COA #: A-2014026908

ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LaSURS
LICENSE NUMBER: 007504

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

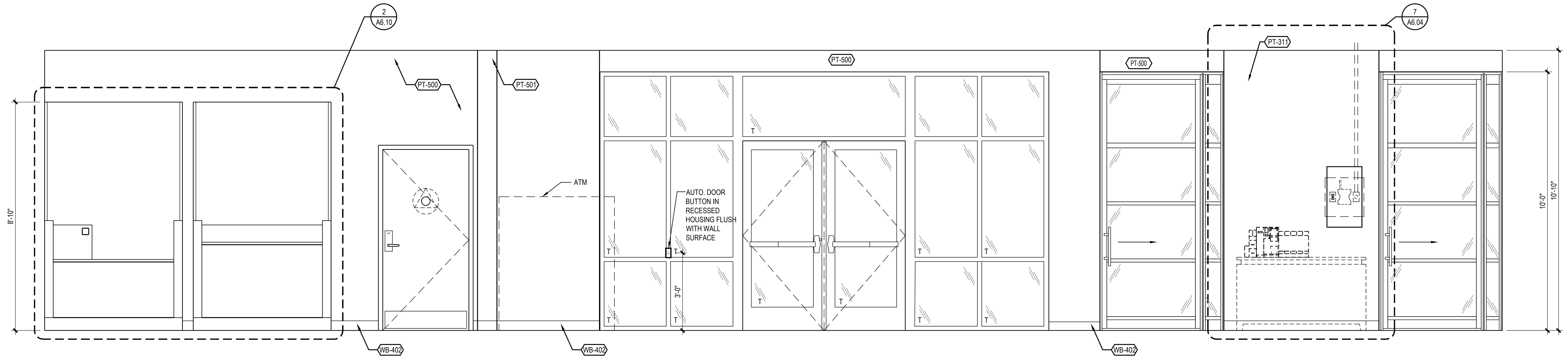
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

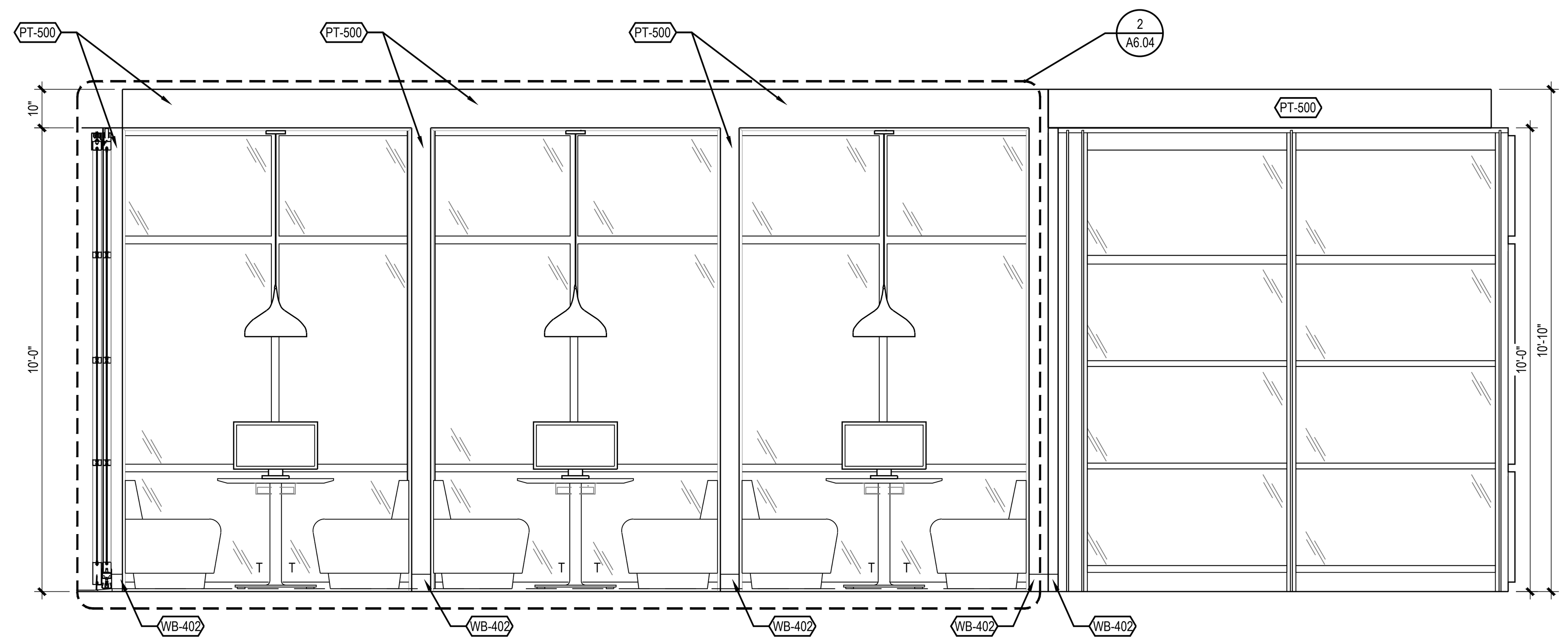
DETAILS: CABINETRY

SHEET NUMBER

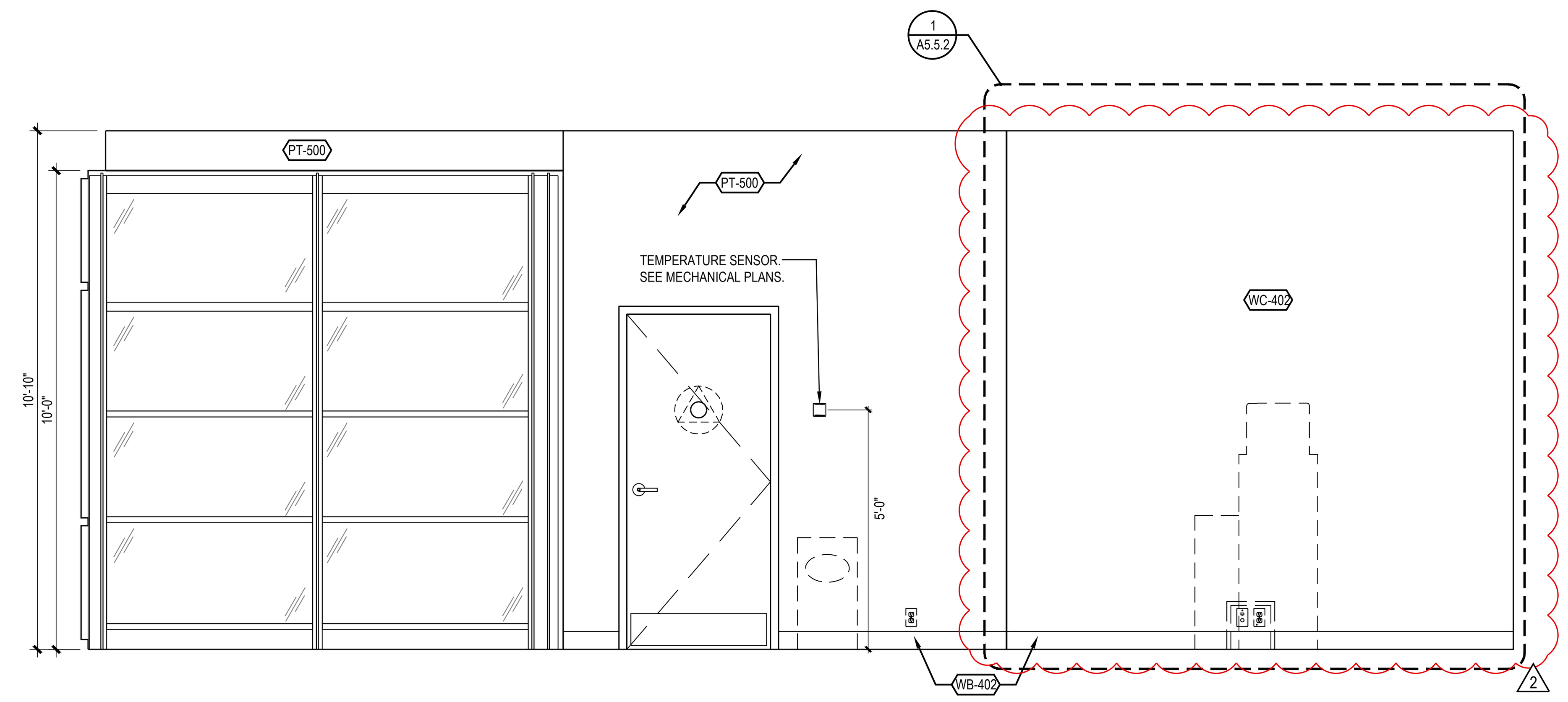
A5.6.1



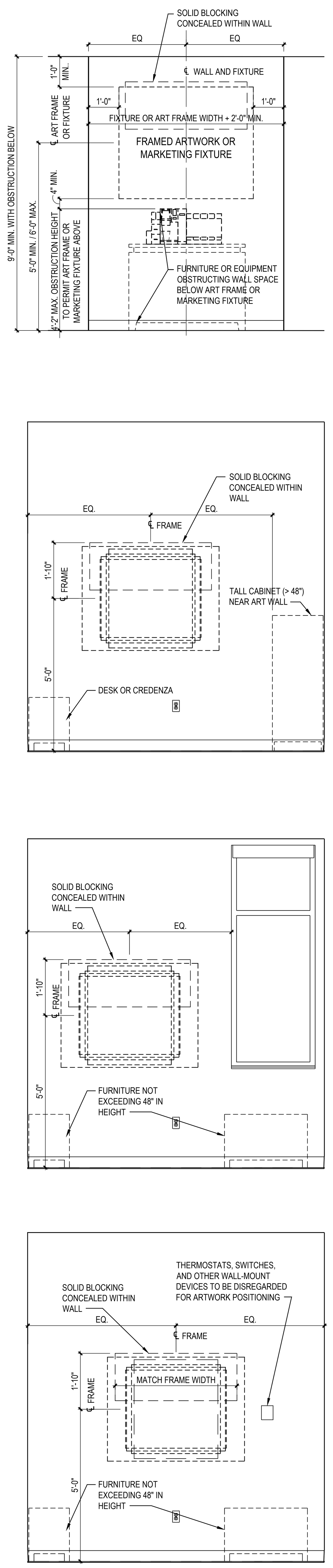
3 A6.00 MANUAL TRANSACTION / VESTIBULE / WELCOME WALL ELEVATION
3/8" = 1'-0"



4 A6.00 BOOTHS / LIVING ROOM ELEVATION
3/8" = 1'-0"



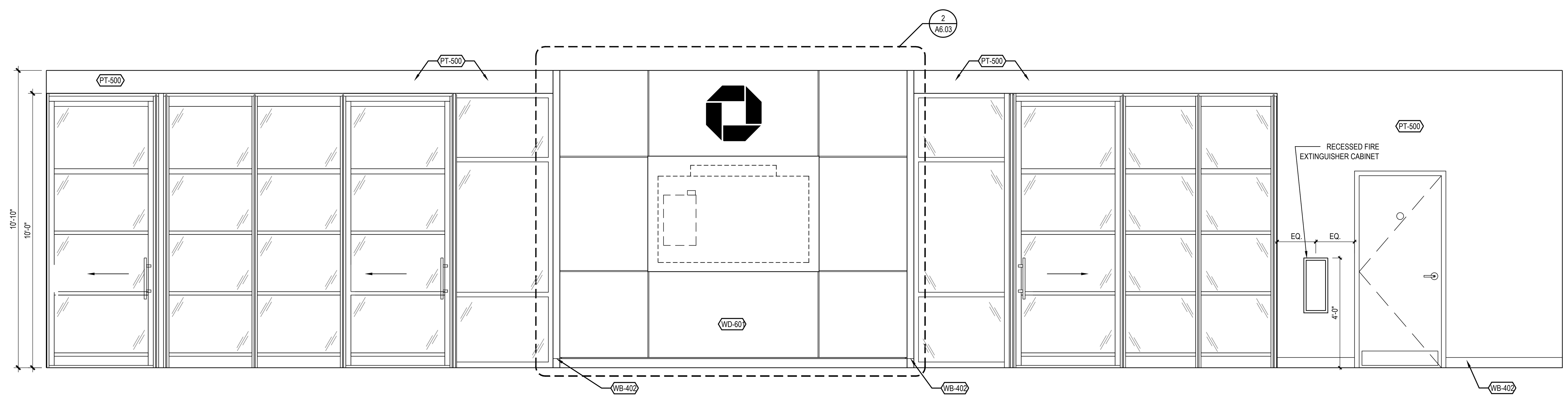
2 A6.00 eATM / LIVING ROOM ELEVATION
3/8" = 1'-0"



OWNER-PROVIDED ARTWORK POSITIONING GUIDELINES:

- PREFERRED LOCATION: BACK WALL
- SECONDARY LOCATION: SIDE WALL OPPOSITE DESK
- STANDARD SIZES FOR OFFICES, CONFERENCE ROOMS, AND LOBBIES:
  - 35" SQUARE
  - 33"W x 39"H
  - 39"W x 33"H
  - 39.75"W x 30.75" H
- LARGE SIZE FOR CONFERENCE ROOMS AND LOBBIES ONLY:
  - 54"W x 41"H

5 A6.00 TYPICAL ART & MARKETING MATERIAL POSITIONING
3/8" = 1'-0"



1 A6.00 LIVING ROOM / LOBBY ELEVATION
3/8" = 1'-0"

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COA #: A-2014026908
ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 15, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

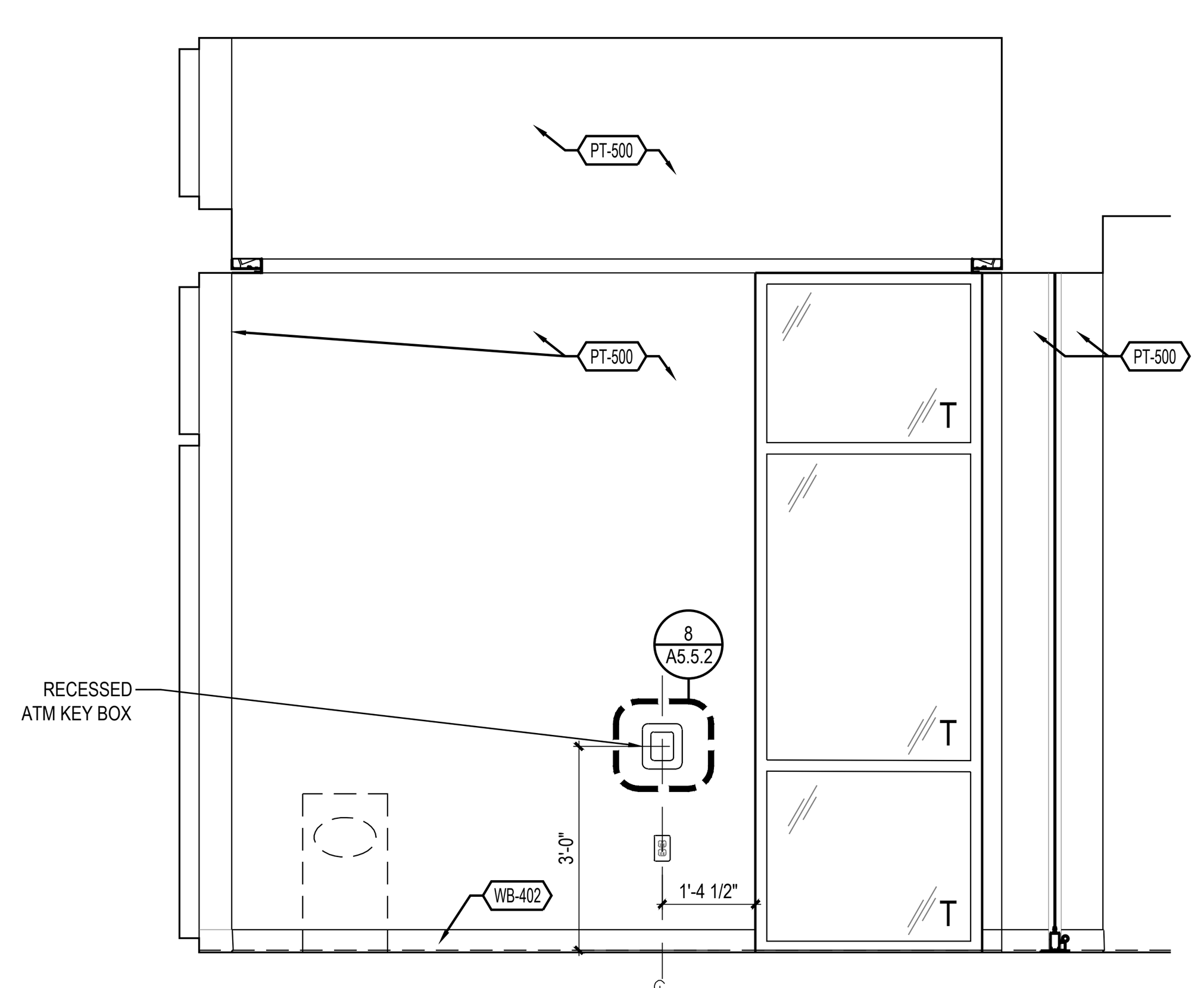
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

MAIN BANKING FLOOR: INTERIOR ELEVATIONS AND MARKETING POSITIONING DETAILS

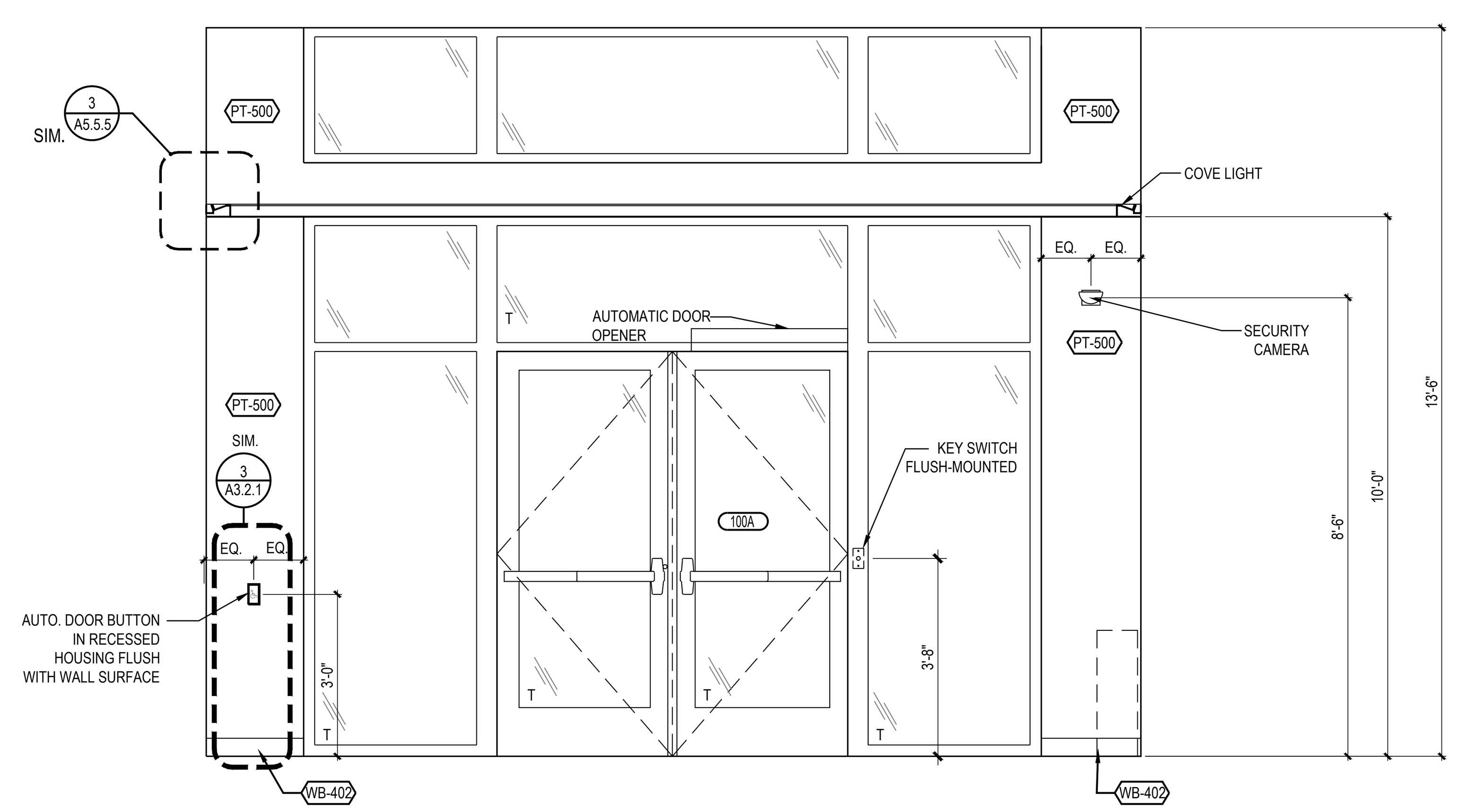
SHEET NUMBER

A6.00



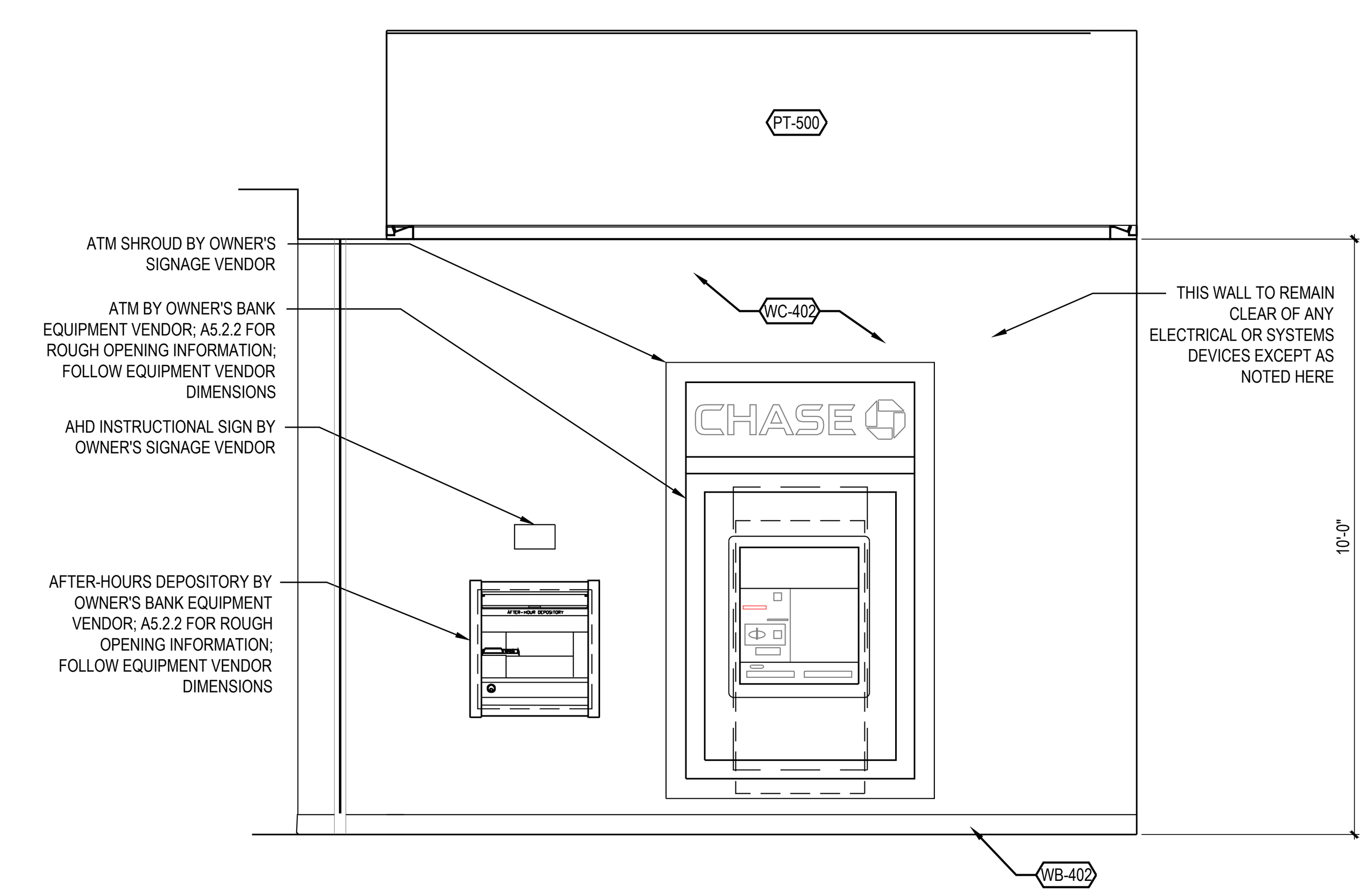
3 A6.01 INTERIOR ELEVATION

3/8" = 1'-0"



2 A6.01 INTERIOR ELEVATION

3/8" = 1'-0"



1 A6.01 INTERIOR ELEVATION

3/8" = 1'-0"

CHASE

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CORESTATES, INC.

COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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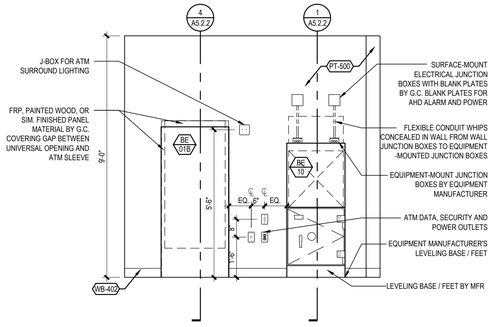
PROJECT NO:	JPM.27135.001
DATE:	2020.XX.XX
PROTOTYPE:	**20.2**
DRAWN BY:	X.X.LASTNAME
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

TRANSACTION VESTIBULE: INTERIOR ELEVATIONS

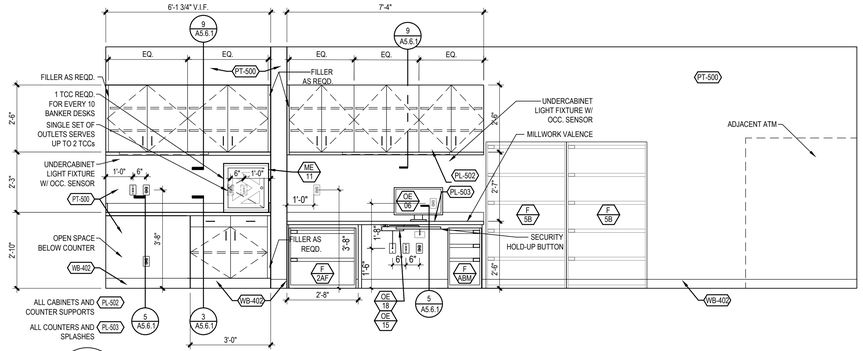
SHEET NUMBER

A6.01



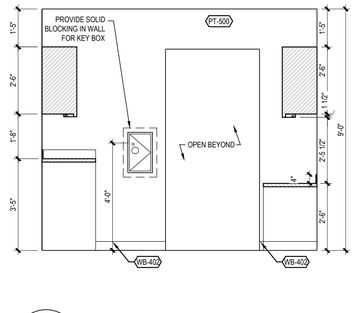
5 A6.02 AHD / ATM WALL ELEVATION

3/8" = 1'-0"



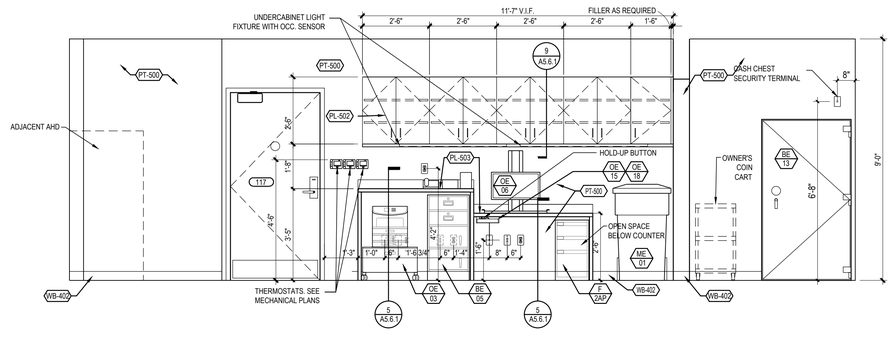
4 A6.02 EQUIPMENT / CABINET WALL ELEVATION

3/8" = 1'-0"



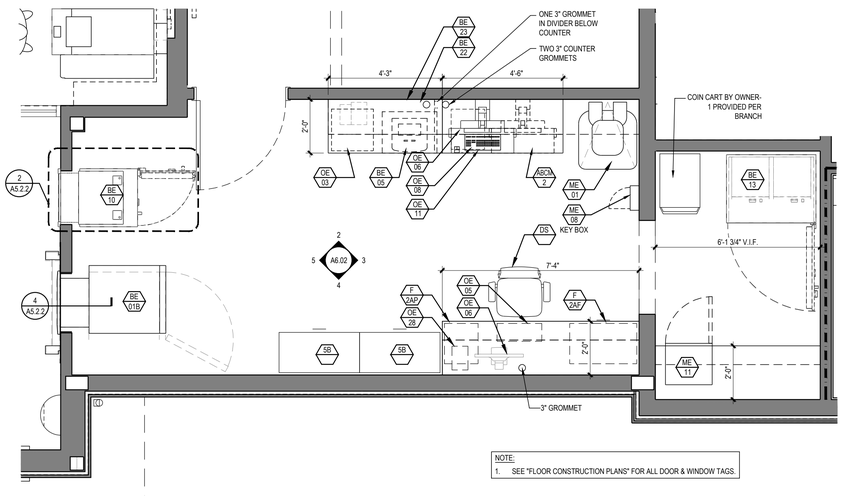
3 A6.02 DOOR WALL ELEVATION

3/8" = 1'-0"



2 A6.02 CABINET WALL ELEVATION

3/8" = 1'-0"



1 A6.02 FLOOR PLAN

3/8" = 1'-0"

CASH/ TRANSACTION EQUIPMENT ROOM & LAO AREA

CHASE

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ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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PROJECT INFORMATION

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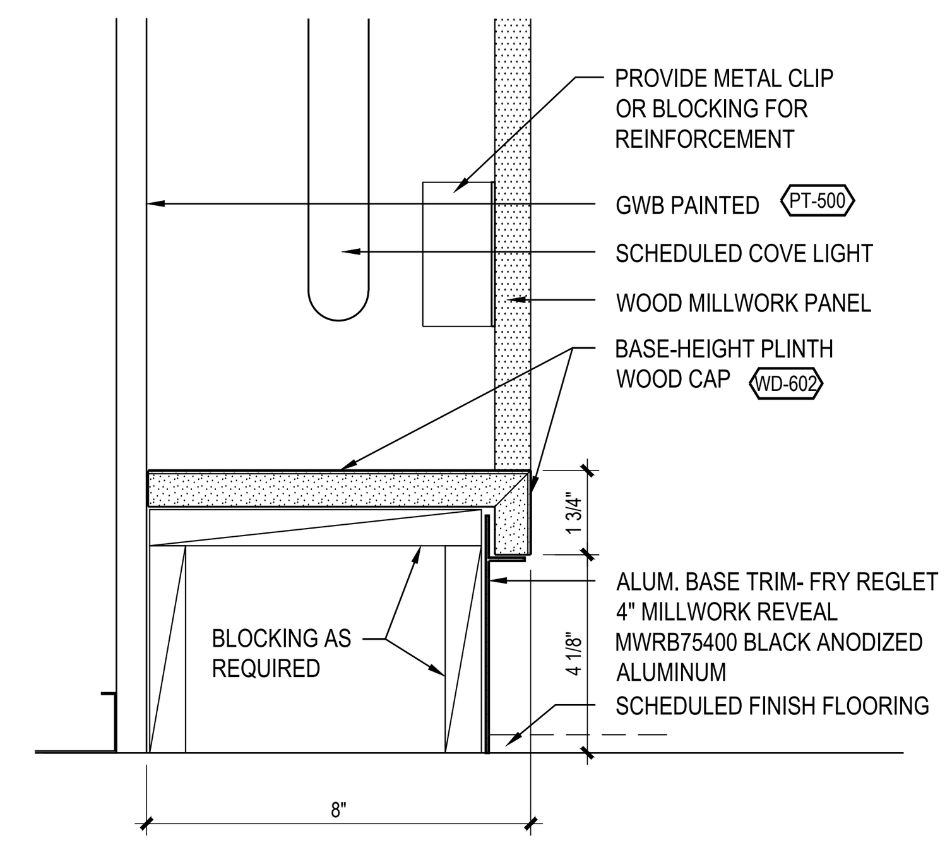
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

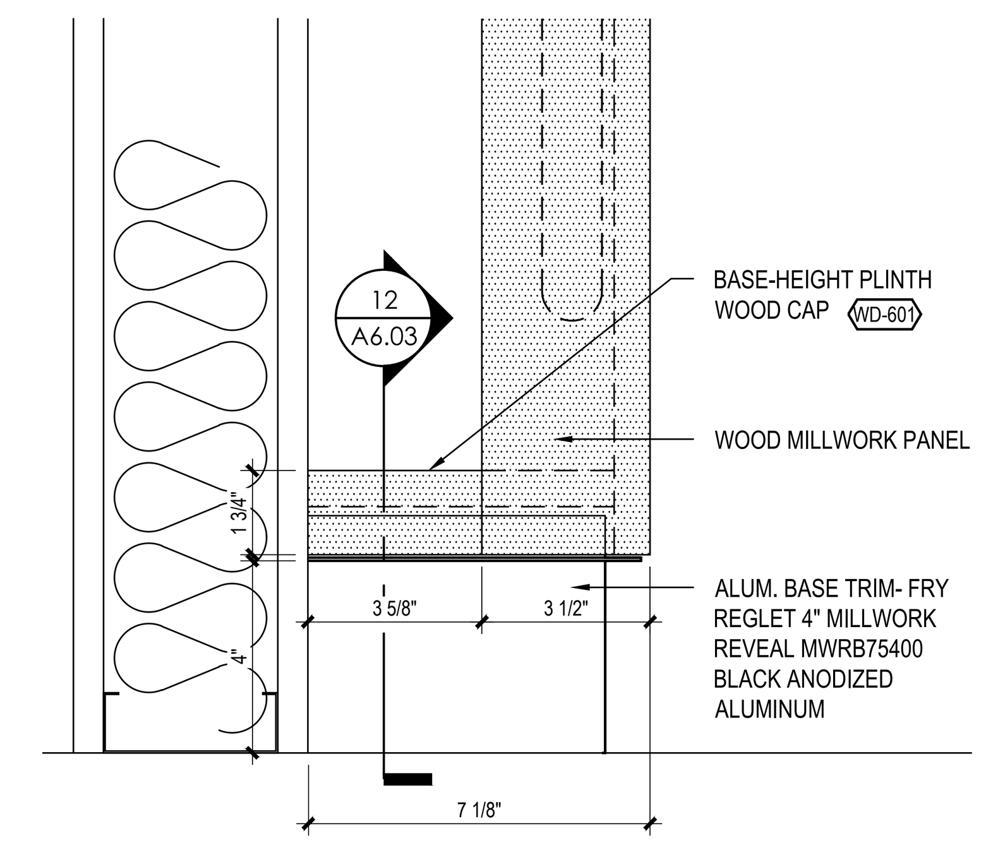
CASH / TRANSACTION EQUIP ROOM & LAO AREA: ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER

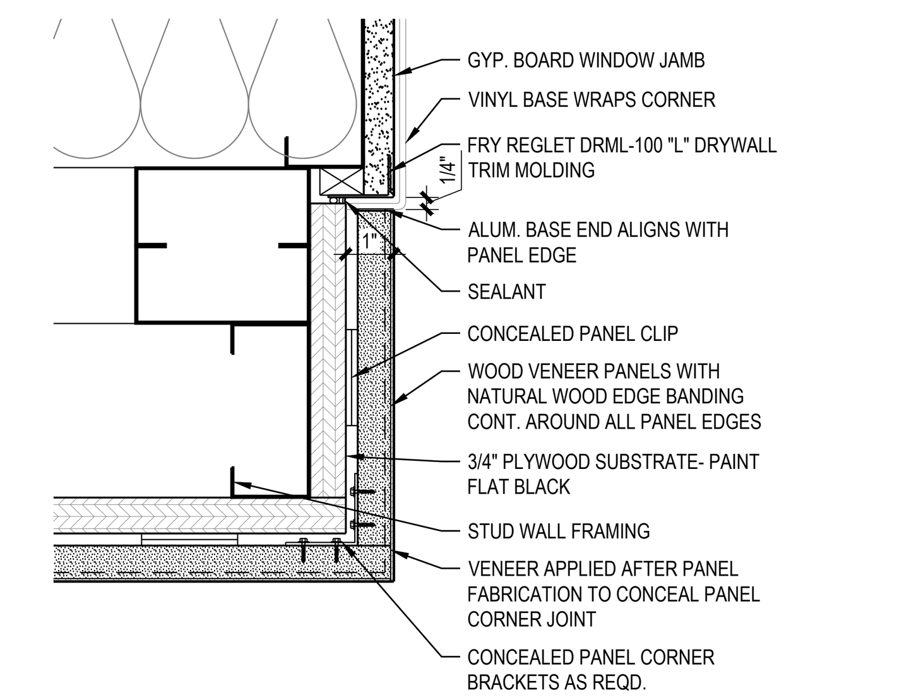
A6.02



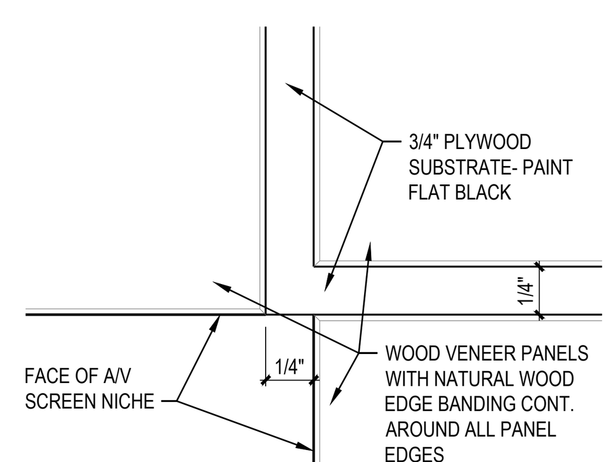
12 A6.03 CAP SECTION AT BASE
3" = 1'-0"



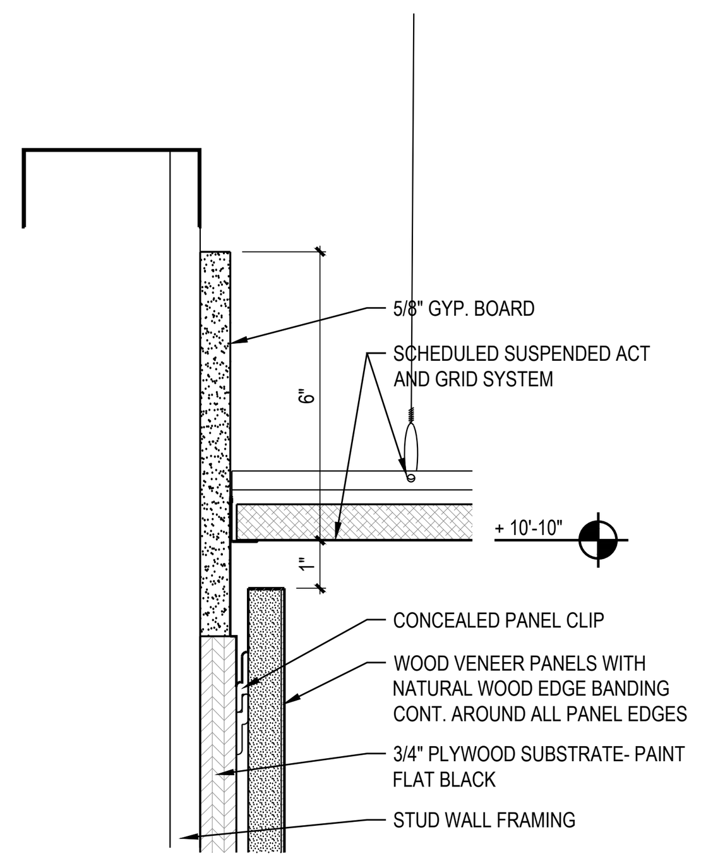
11 A6.03 BRIM WALL ELEVATION
3" = 1'-0"



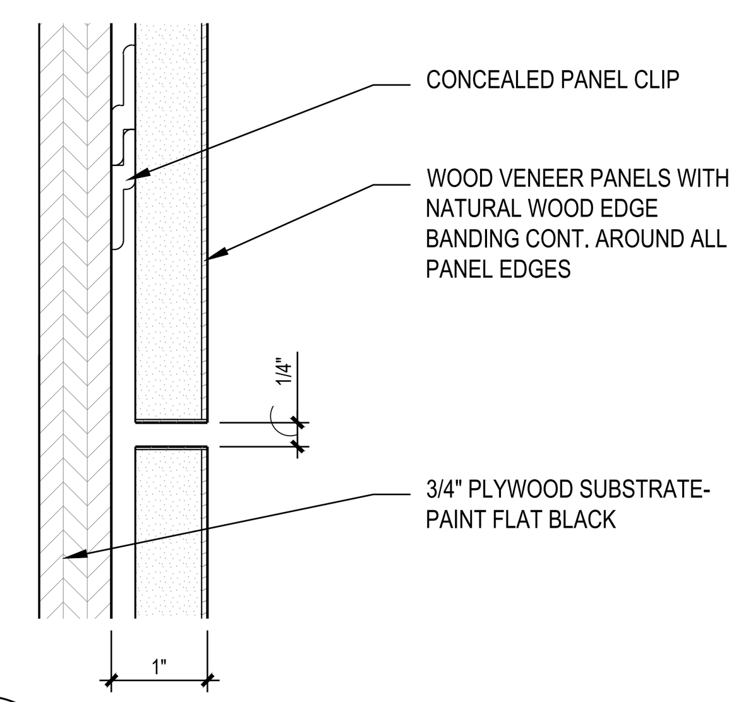
10 A6.03 PANEL WALL CORNER
3" = 1'-0"



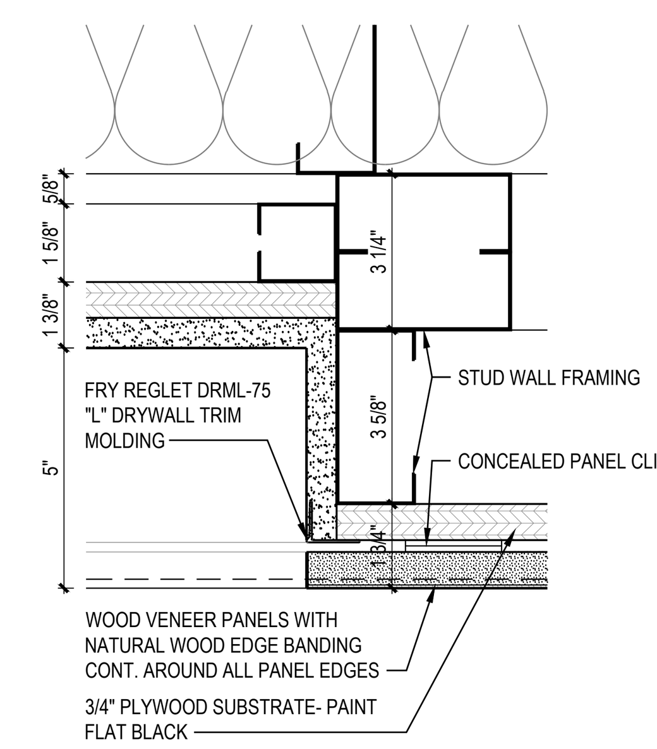
9 A6.03 PANEL JOINT ALIGNMENT
1'-0" = 1'-0"



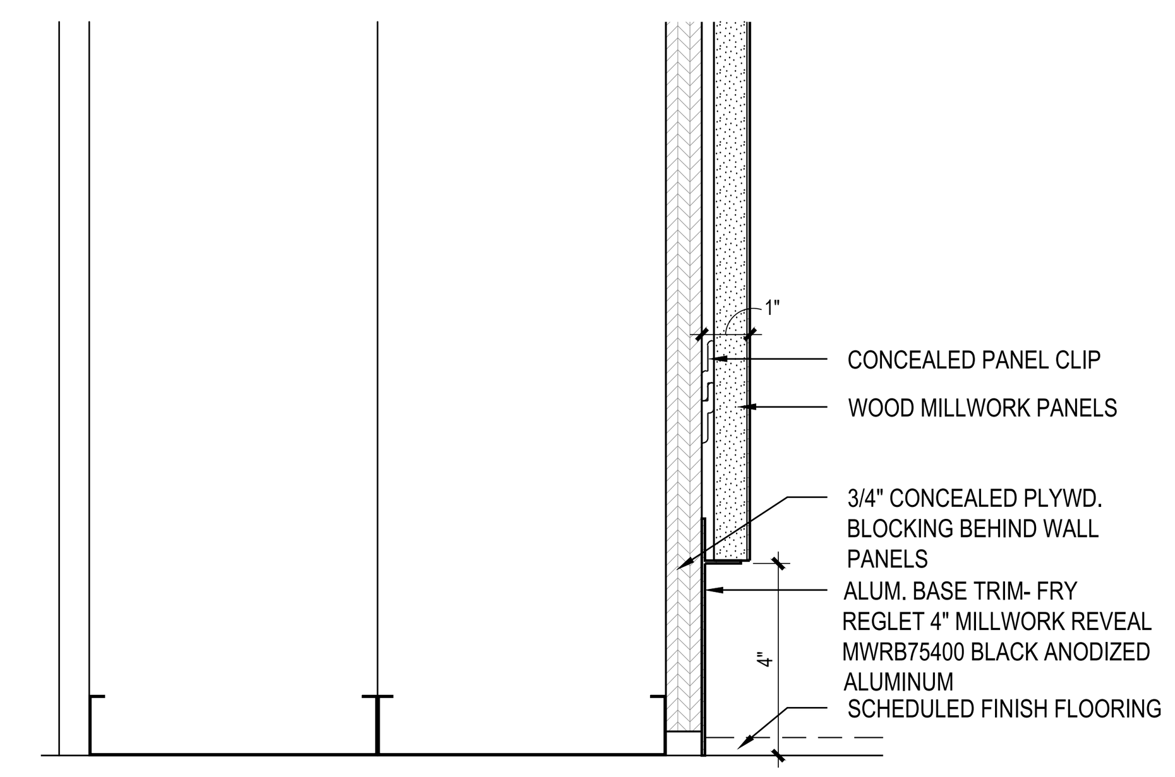
8 A6.03 PANEL WALL TOP
3" = 1'-0"



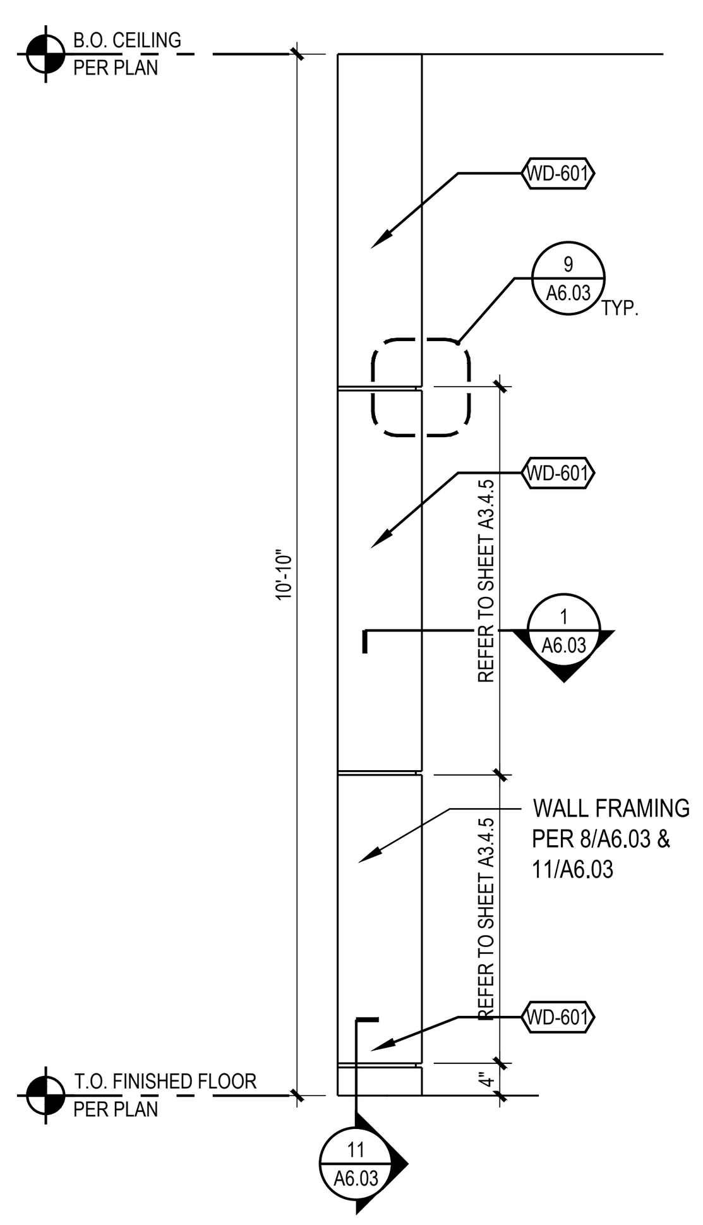
7 A6.03 DETAIL AT REVEALS
6" = 1'-0"



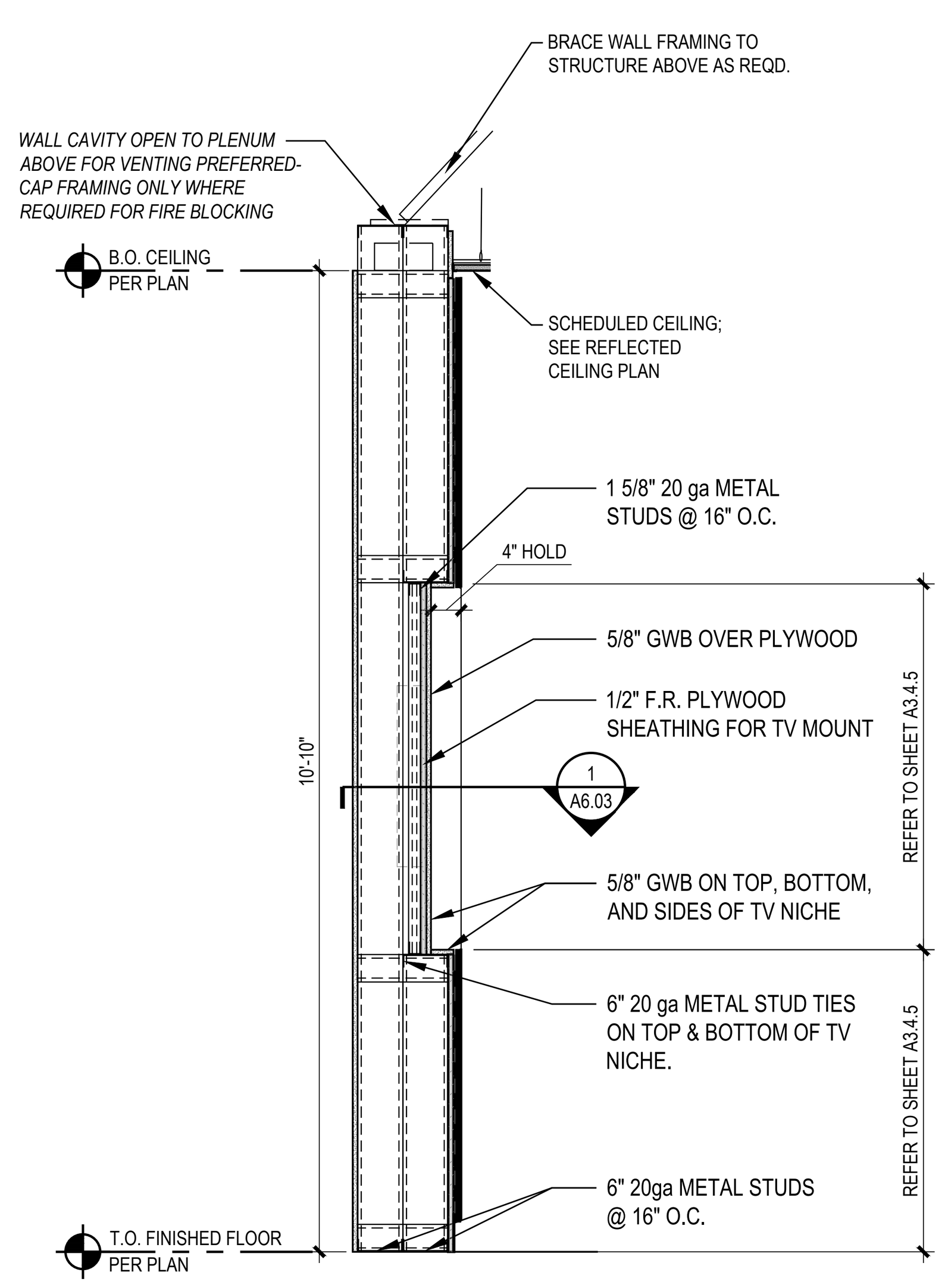
6 A6.03 SCREEN NICHE
3" = 1'-0"



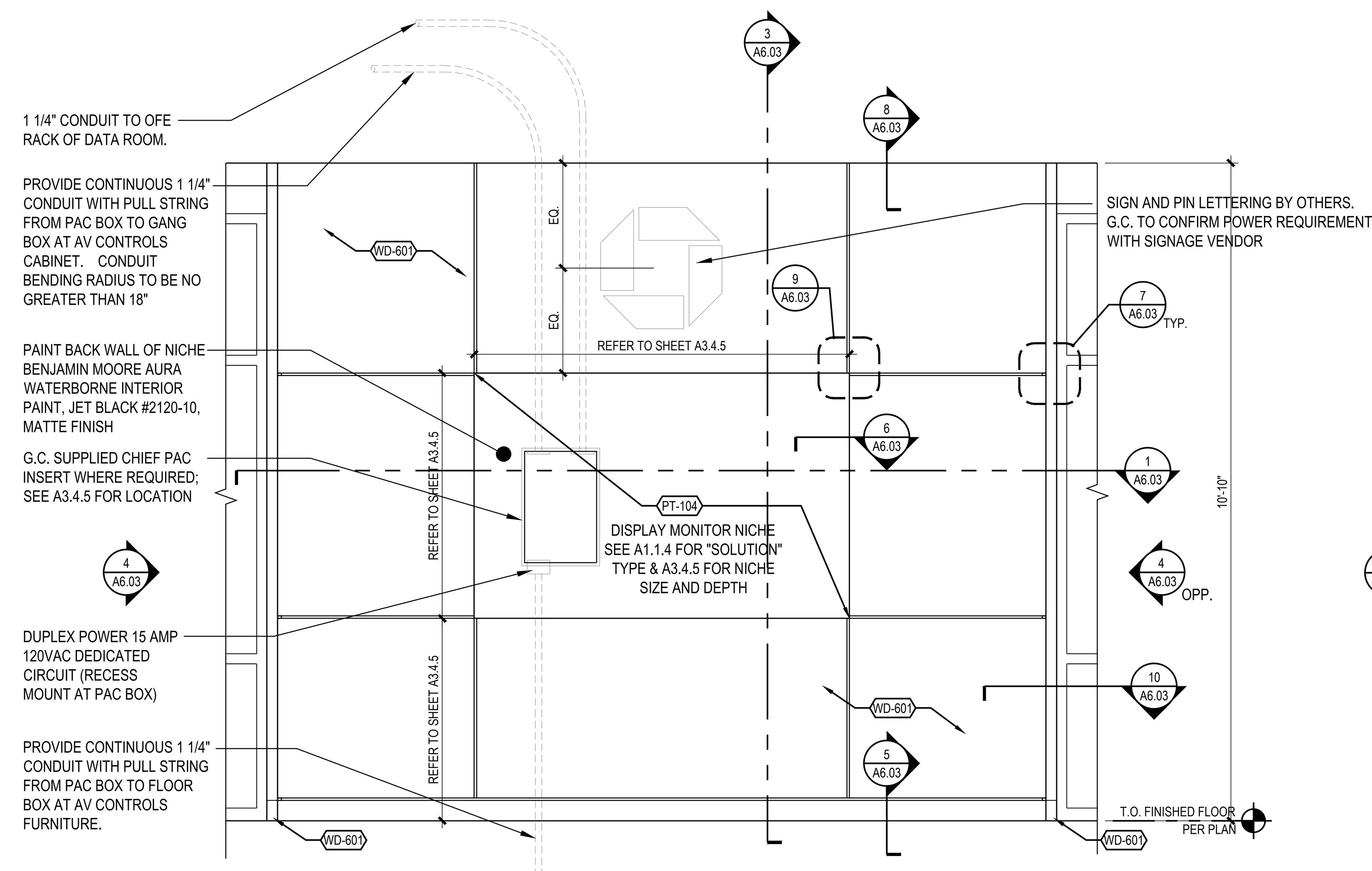
5 A6.03 WALL SECTION
3" = 1'-0"



4 A6.03 ELEVATION @ MEDIA WALL END
1/2" = 1'-0"

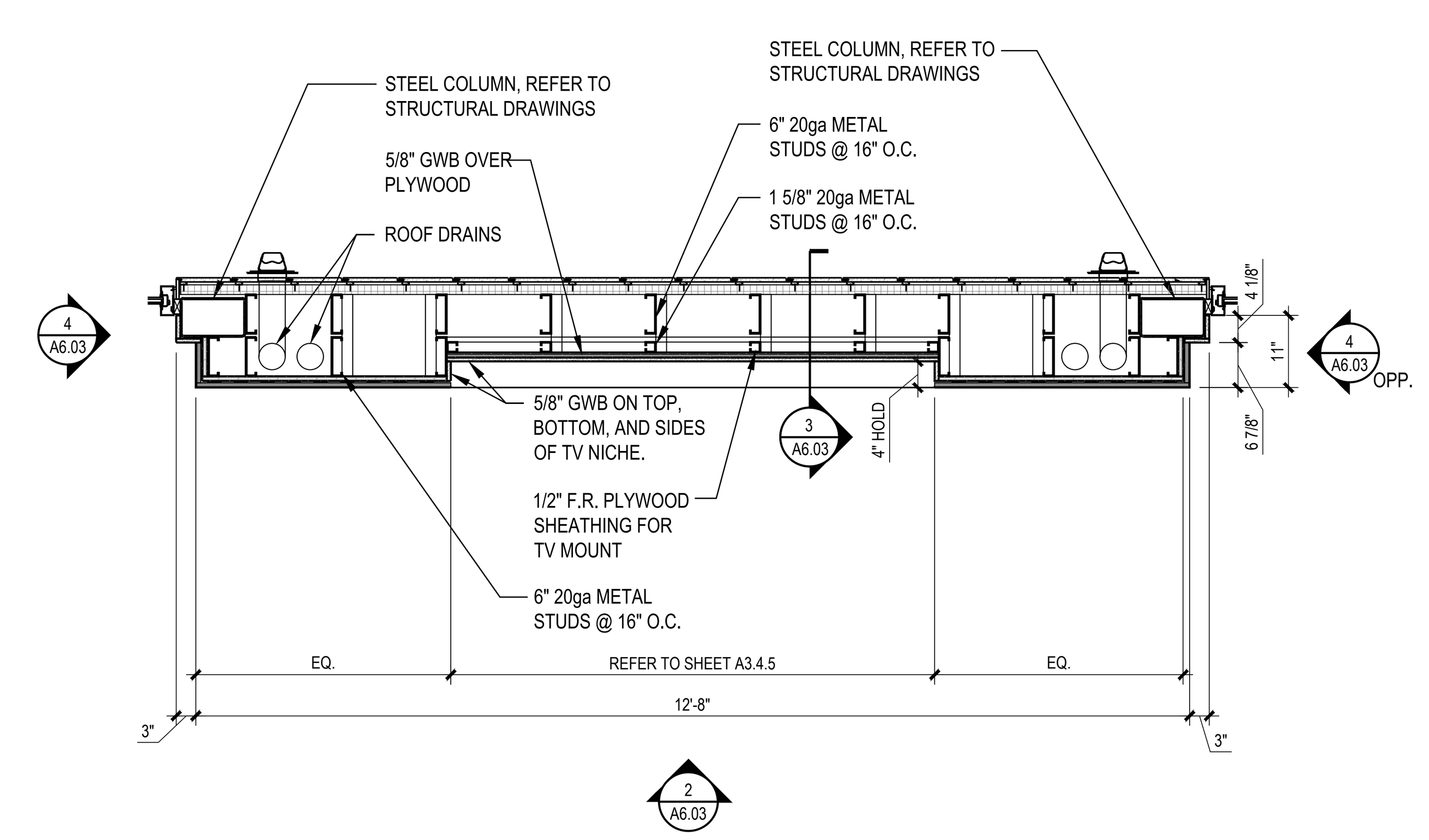


3 A6.03 SECTION @ MEDIA WALL
1/2" = 1'-0"



2 A6.03 MEDIA WALL ELEVATION (75" SOLUTION #3)
1/2" = 1'-0"

NOTE:
DIMENSIONS SHOWN ARE FROM SUBSTRATE TO SUBSTRATE U.N.O.



1 A6.03 ENLARGED FLOOR PLAN
1/2" = 1'-0"

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
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CHASE OVP#38200P368999

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314.843.4320
www.core-states.com
CORESTATES, INC.
COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

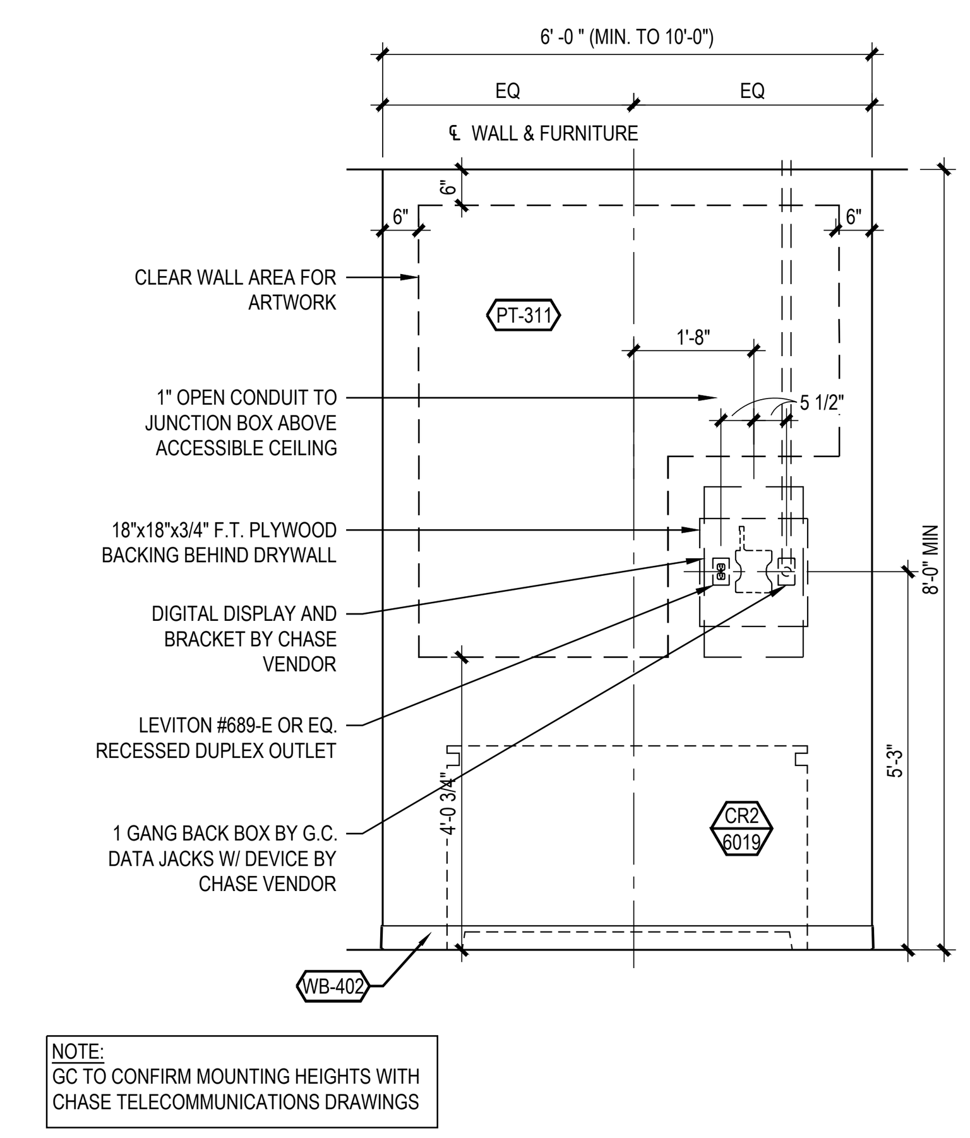
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

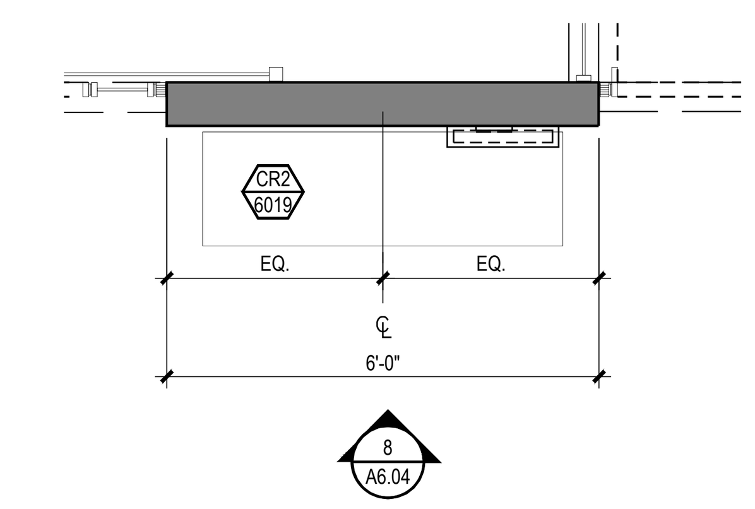
MEDIA WALL - ENLARGED PLAN, ELEVATIONS & DETAILS

SHEET NUMBER

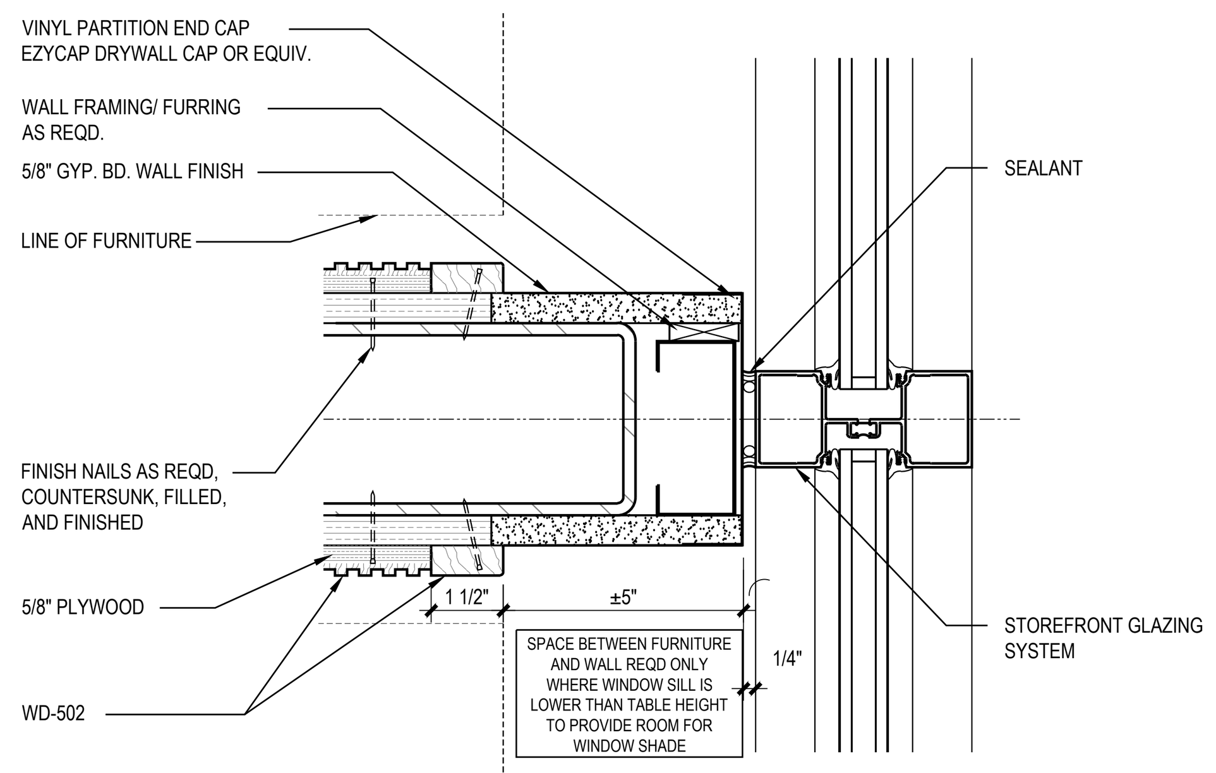
A6.03



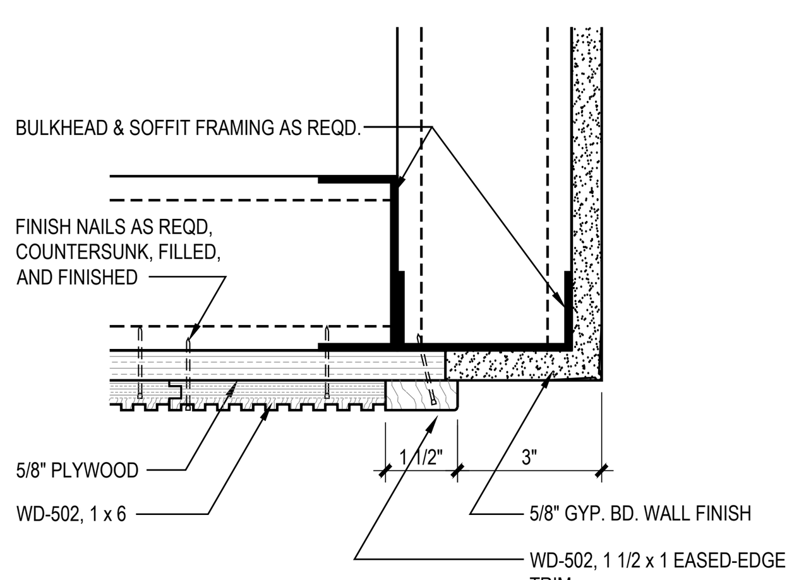
8 A6.04 COMMUNITY WALL ELEVATION
3/8" = 1'-0"



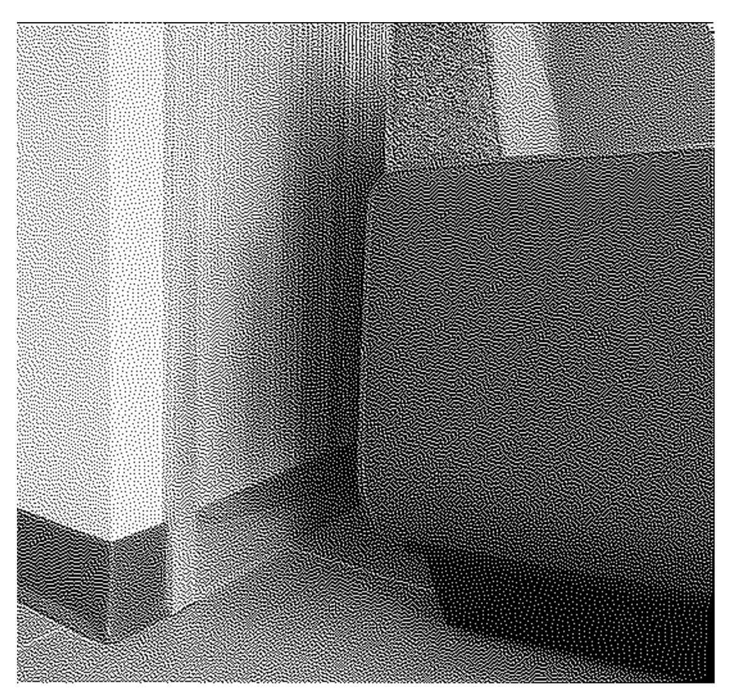
7 A6.04 ENLARGED COMMUNITY WALL PLAN
3/8" = 1'-0"

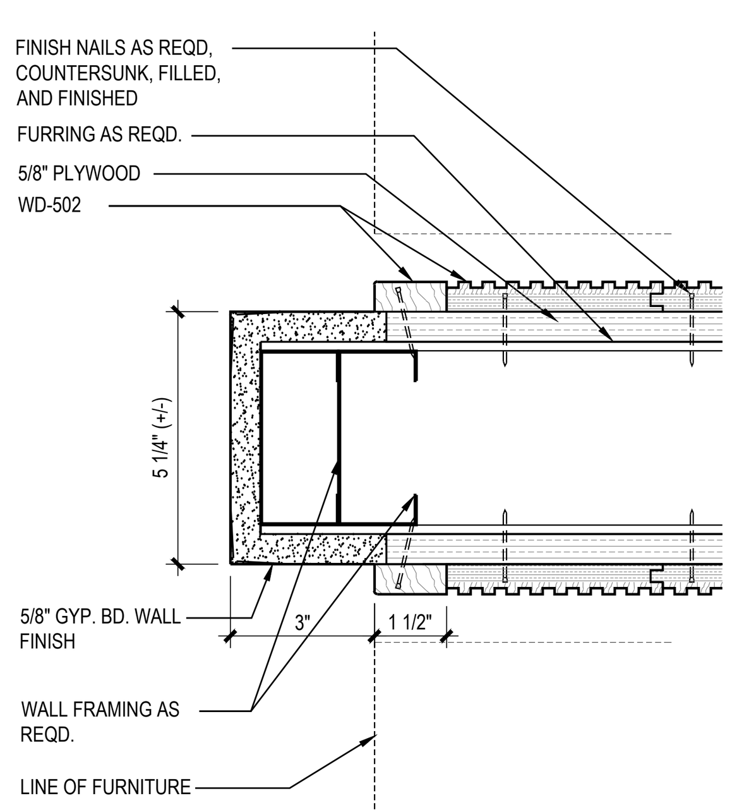


6 A6.04 BOOTH PARTITION AT STOREFRONT
3" = 1'-0"

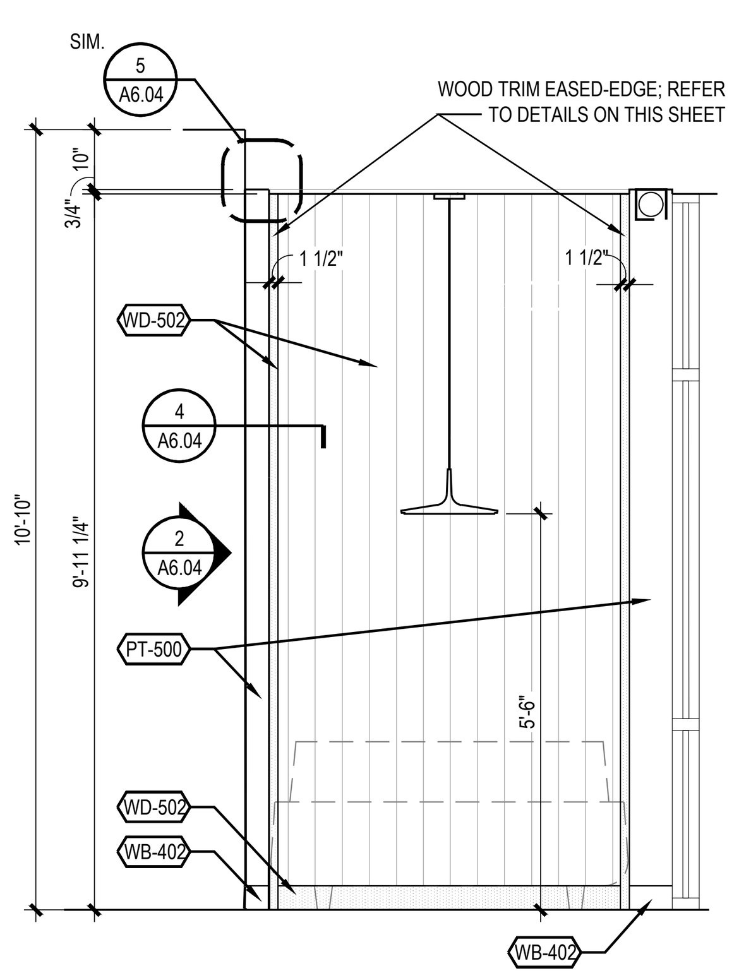


5 A6.04 BOOTH SOFFIT DETAIL
3" = 1'-0"

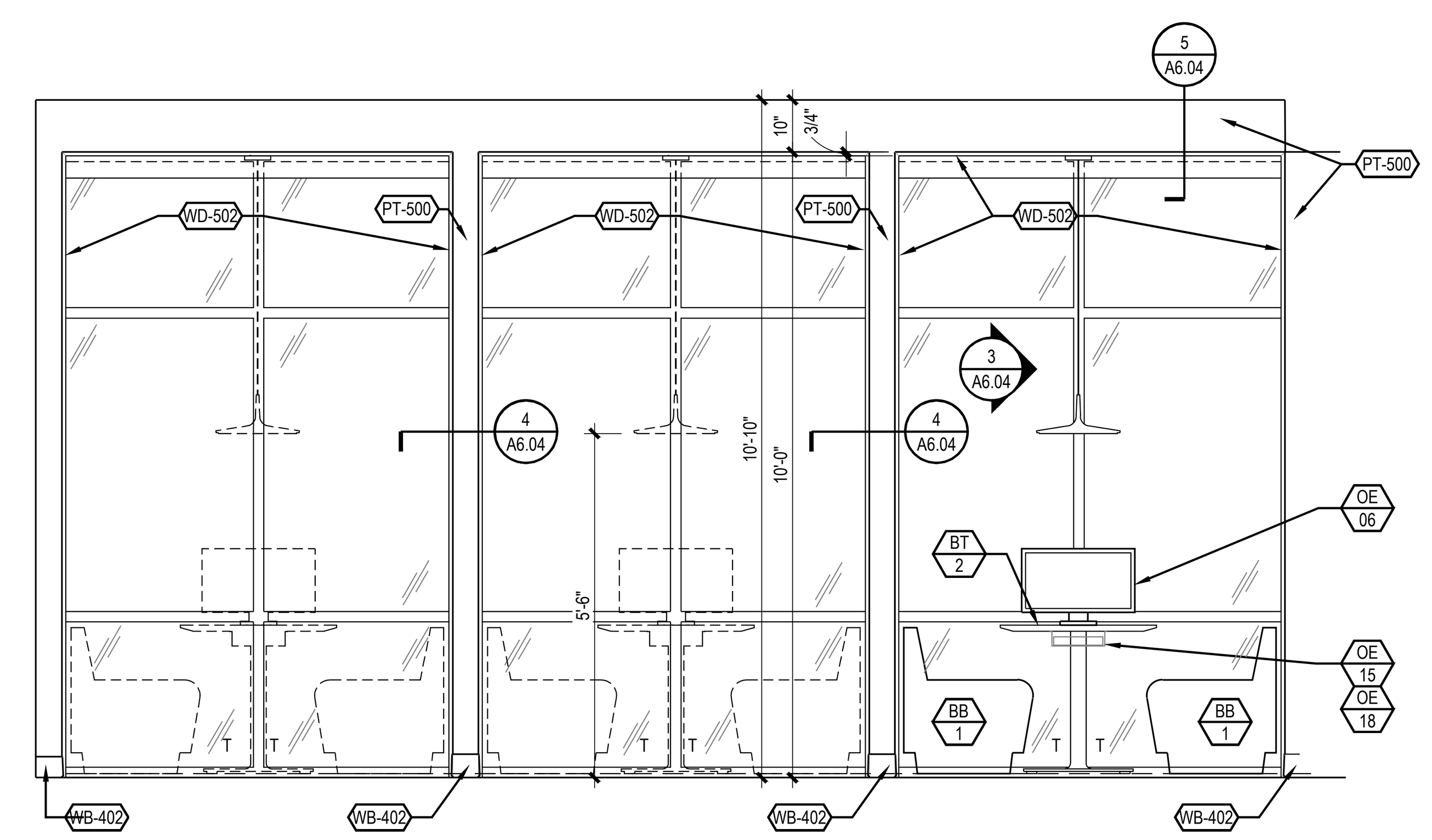




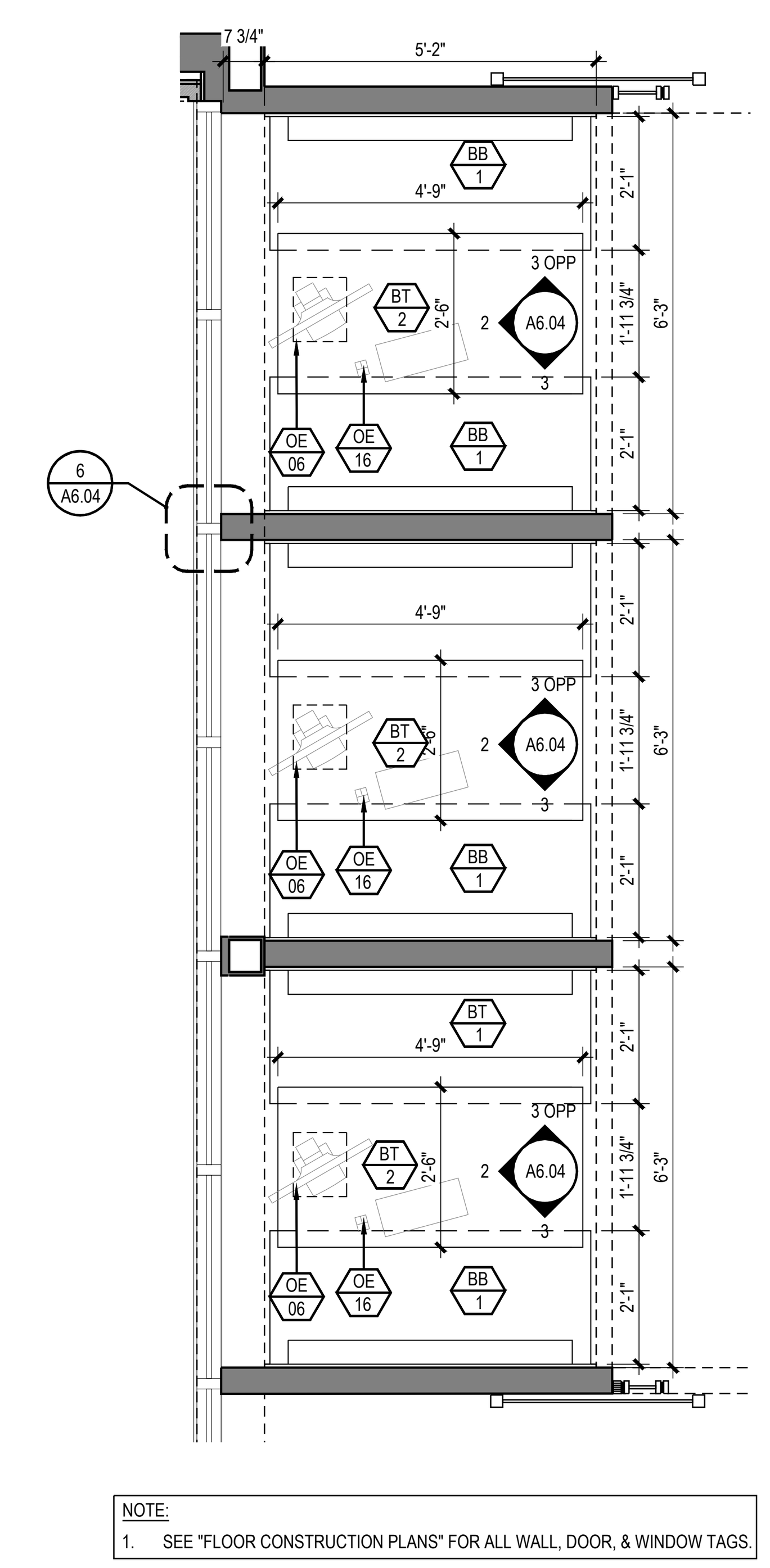
4 A6.04 BOOTH WALL DETAIL
3" = 1'-0"



3 A6.04 BOOTH SEAT WALL ELEVATION
3/8" = 1'-0"



2 A6.04 TYPICAL BOOTH ELEVATION
3/8" = 1'-0"



1 A6.04 ENLARGED BOOTH PLAN & ELEVATION
3/8" = 1'-0"

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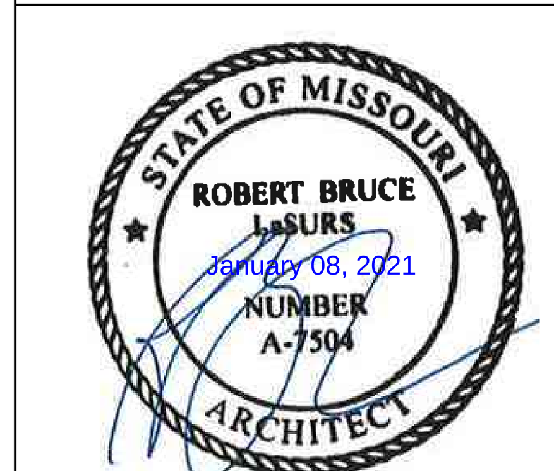
ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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PROJECT INFORMATION

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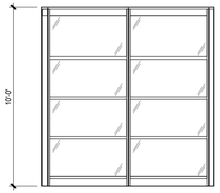
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

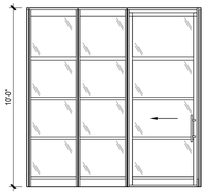
COMMUNITY WALL AND BOOTH: ENLARGED PLANS, ELEVATIONS, AND DETAILS

SHEET NUMBER

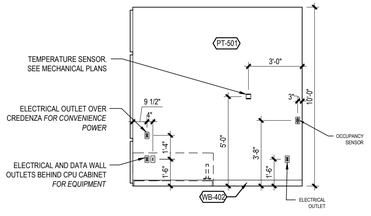
A6.04



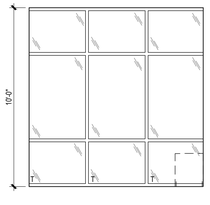
20 A6.05 PCS 4 INTERIOR ELEVATION
1/4" = 1'-0"



19 A6.05 PCS 4 INTERIOR ELEVATION
1/4" = 1'-0"

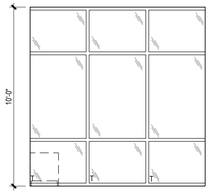


18 A6.05 PCS 4 INTERIOR ELEVATION
1/4" = 1'-0"

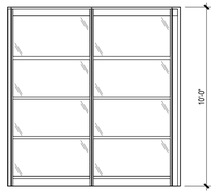


17 A6.05 PCS 4 INTERIOR ELEVATION
1/4" = 1'-0"

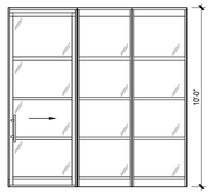
PRIVATE CONSULTATION SPACE (PCS 8)



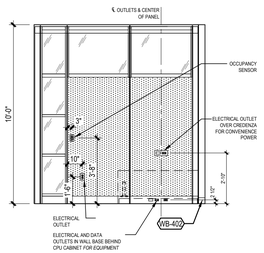
16 A6.05 PCS 7 INTERIOR ELEVATION
1/4" = 1'-0"



15 A6.05 PCS 7 INTERIOR ELEVATION
1/4" = 1'-0"

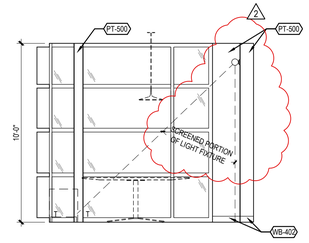


14 A6.05 PCS 7 INTERIOR ELEVATION
1/4" = 1'-0"

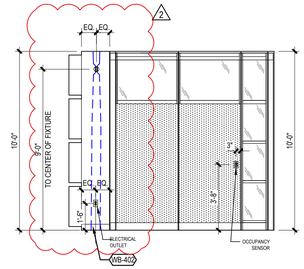


13 A6.05 PCS 7 INTERIOR ELEVATION
1/4" = 1'-0"

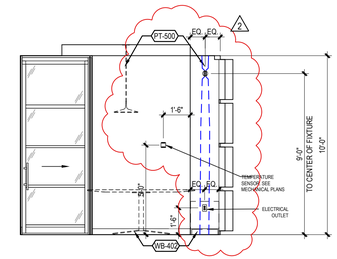
PRIVATE CONSULTATION SPACE (PCS 7)



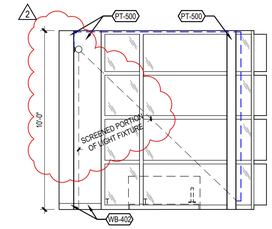
12 A6.05 CONFERENCE ROOM INTERIOR ELEVATION
1/4" = 1'-0"



11 A6.05 CONFERENCE ROOM INTERIOR ELEVATION
1/4" = 1'-0"

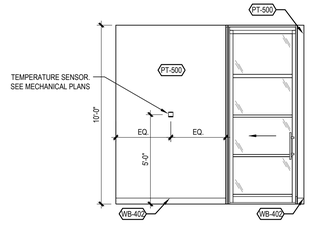


10 A6.05 CONFERENCE ROOM INTERIOR ELEVATION
1/4" = 1'-0"

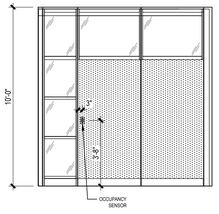


9 A6.05 CONFERENCE ROOM INTERIOR ELEVATION
1/4" = 1'-0"

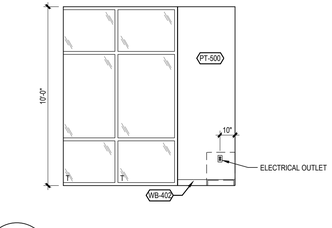
PRIVATE CONSULTATION SPACE (PCS 2)



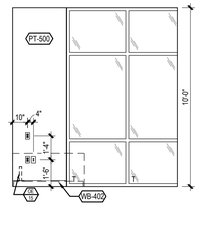
8 A6.05 PCS 2 INTERIOR ELEVATION
1/4" = 1'-0"



7 A6.05 PCS 2 INTERIOR ELEVATION
1/4" = 1'-0"

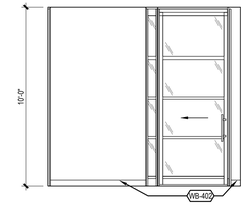


6 A6.05 PCS 2 INTERIOR ELEVATION
1/4" = 1'-0"

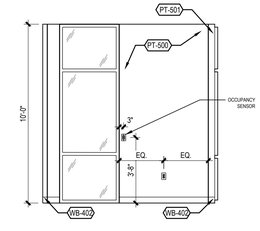


5 A6.05 PCS 2 INTERIOR ELEVATION
1/4" = 1'-0"

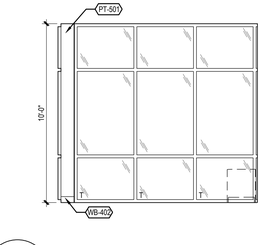
PRIVATE CONSULTATION SPACE (PCS 1)



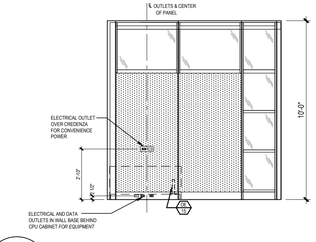
4 A6.05 PCS 1 INTERIOR ELEVATION
1/4" = 1'-0"



3 A6.05 PCS 1 INTERIOR ELEVATION
1/4" = 1'-0"



2 A6.05 PCS 1 INTERIOR ELEVATION
1/4" = 1'-0"



1 A6.05 PCS 1 INTERIOR ELEVATION
1/4" = 1'-0"

CONFERENCE ROOM

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
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CHASE OVP#38200P368999

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 18, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

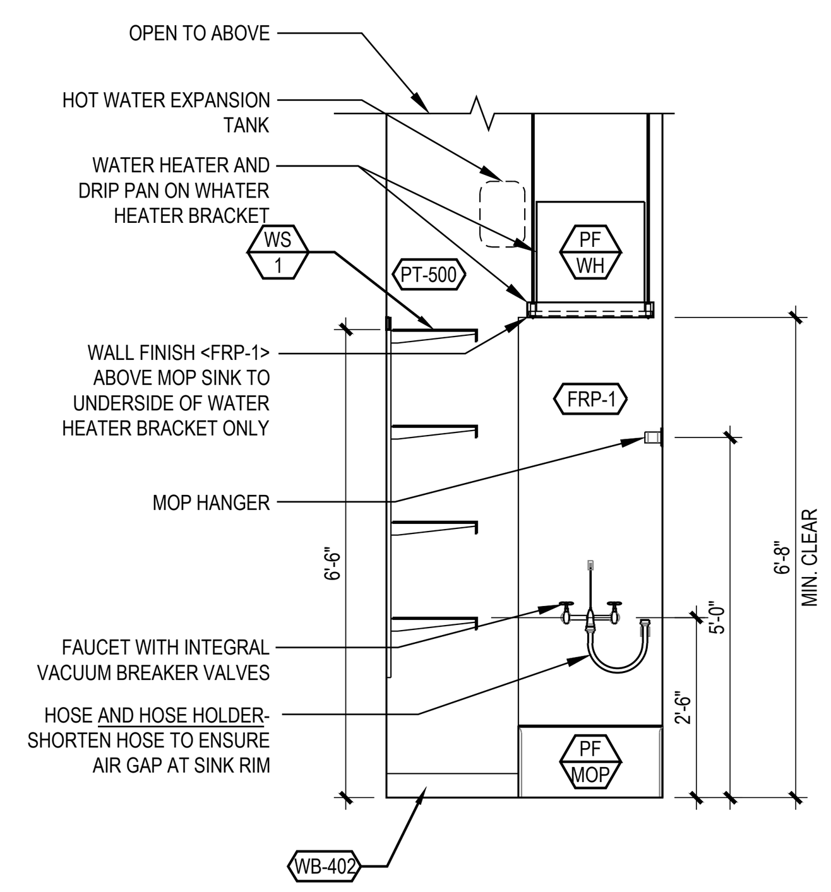
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

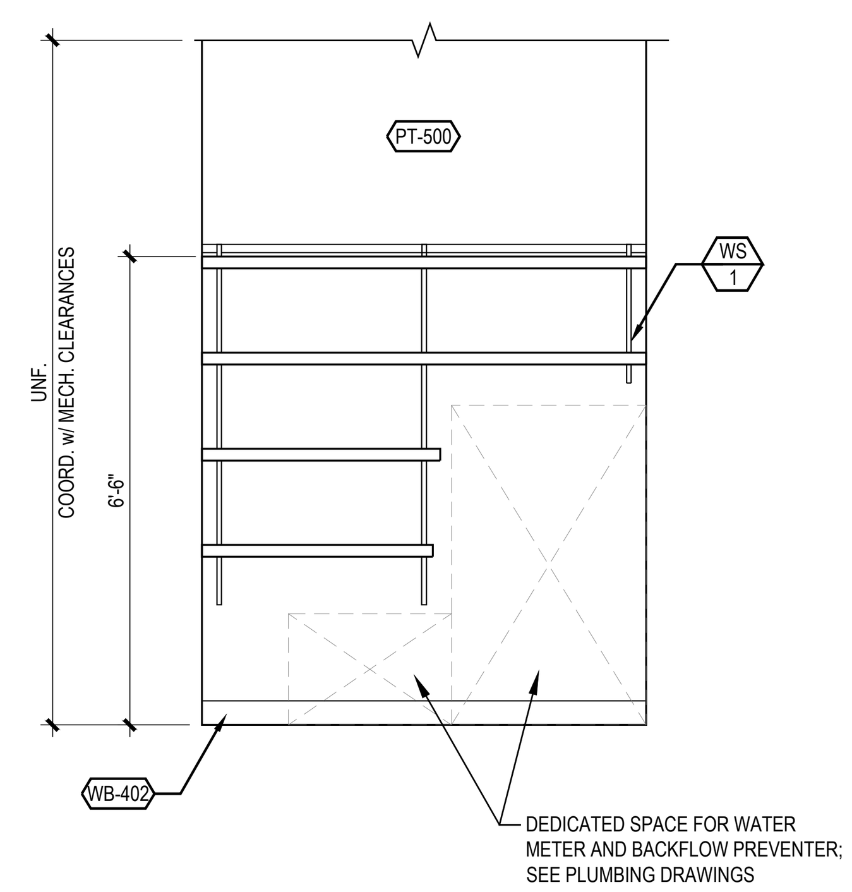
PRIVATE CONSULATION SPACE
CONFERENCE ROOM:
INTERIOR ELEVATIONS

SHEET NUMBER

A6.05



11
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



10
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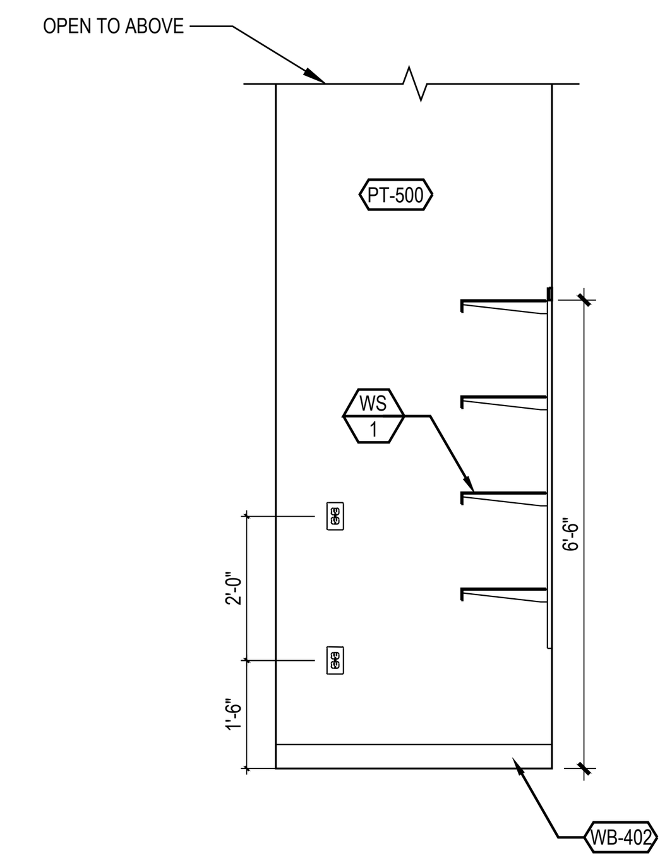
INTERIOR ELEVATION
3/8" = 1'-0"



9
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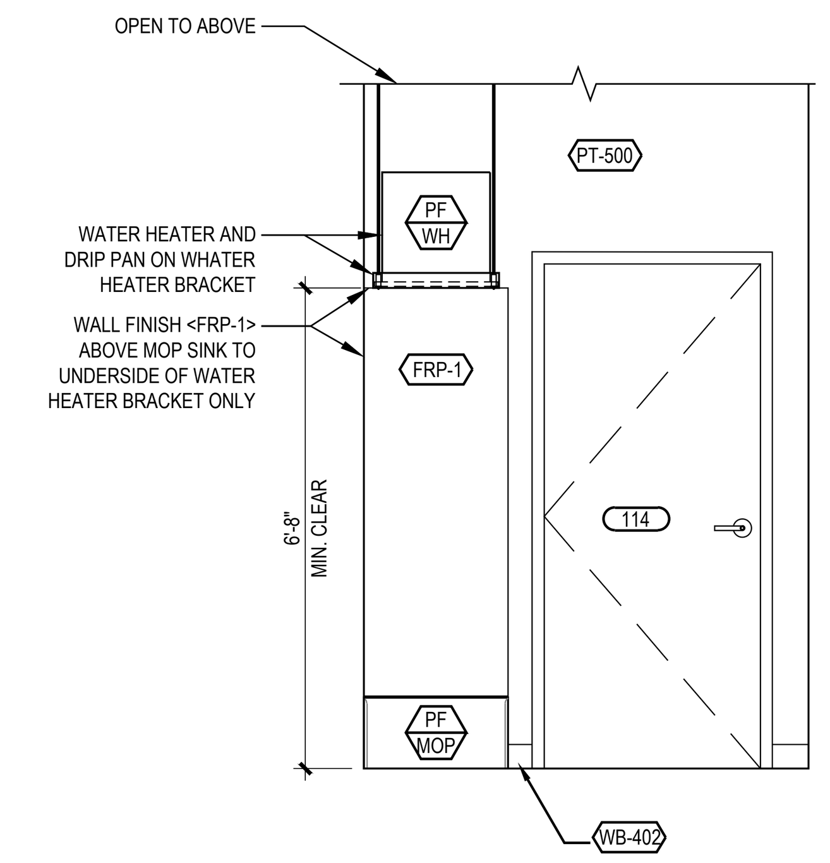
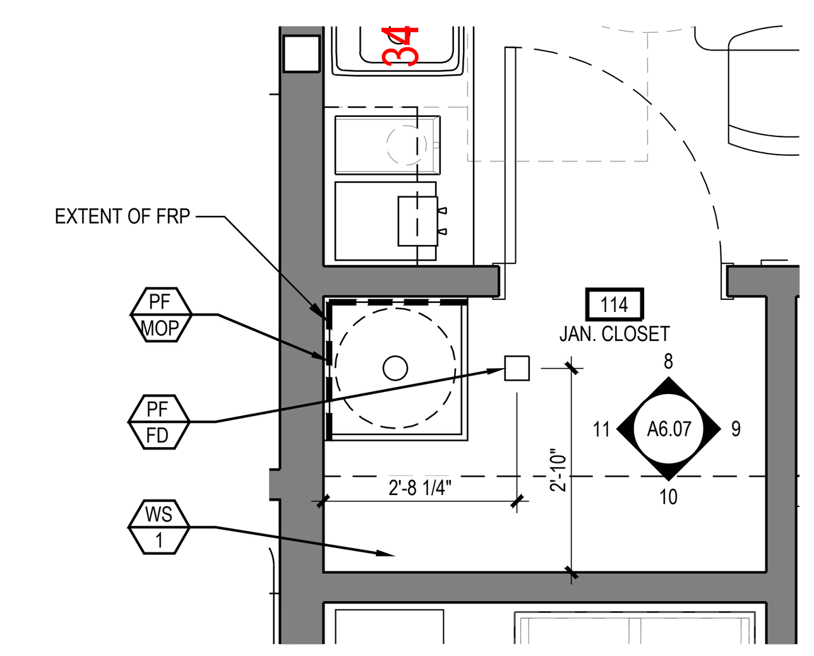
INTERIOR ELEVATION
3/8" = 1'-0"

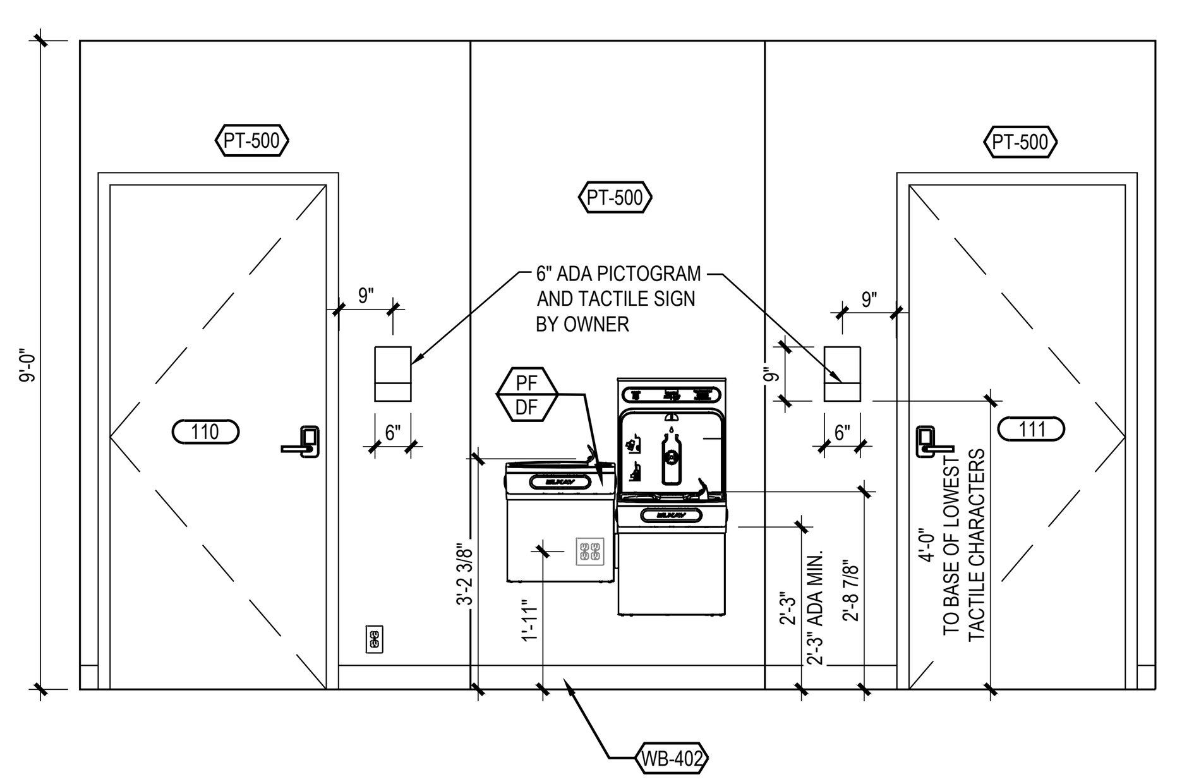


8
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"

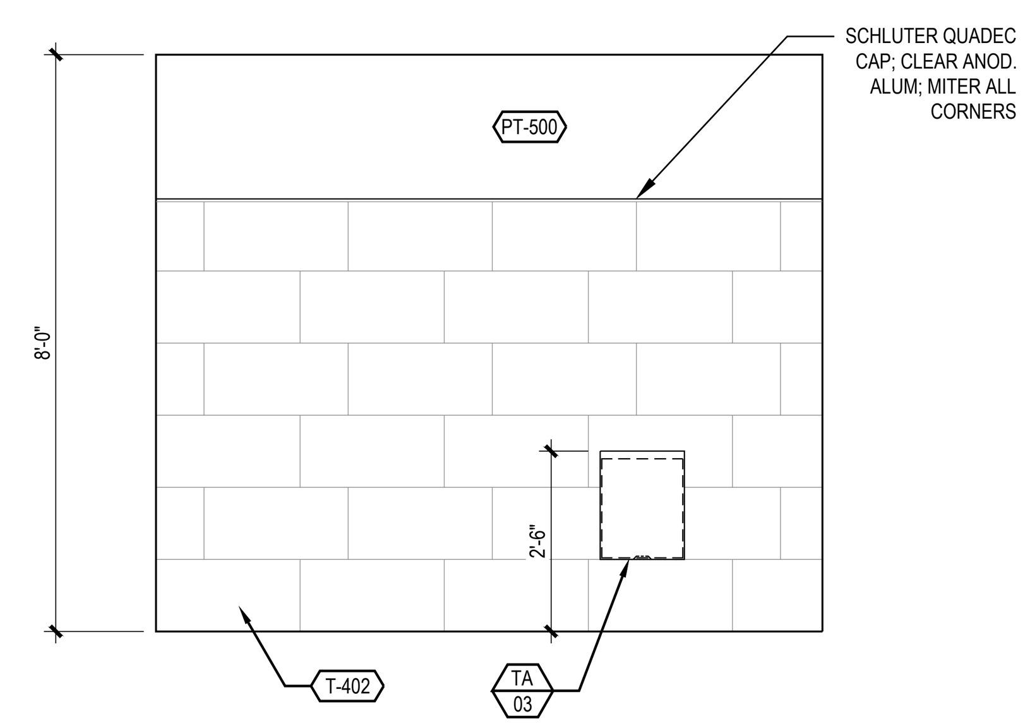


NOTE:
1. SEE "FLOOR CONSTRUCTION PLANS" FOR ALL DOOR & WINDOW TAGS.

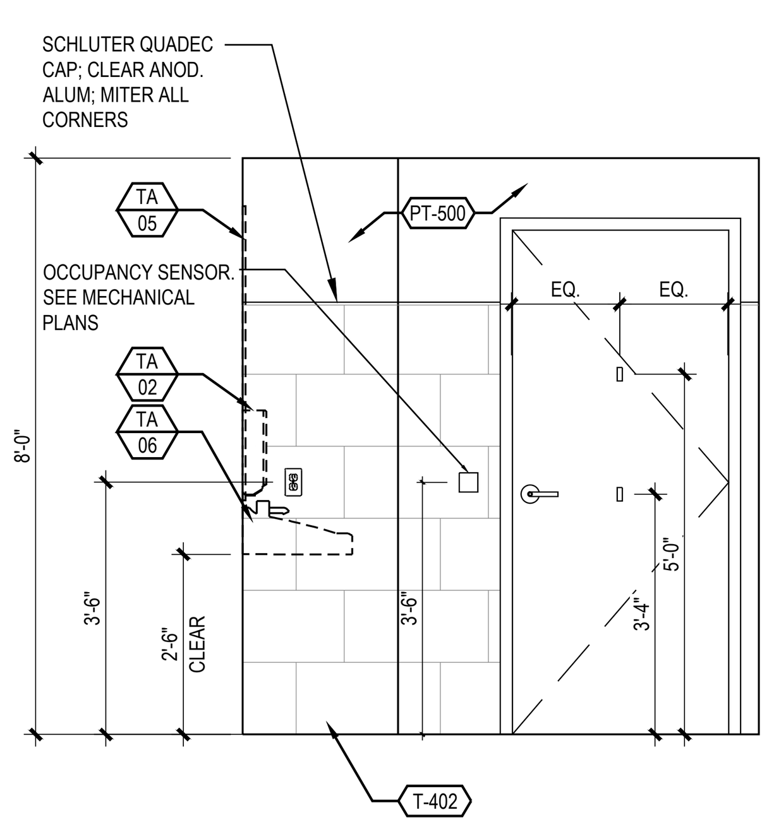
7
A6.07
ENLARGED JANITOR CLOSET PLAN
3/8" = 1'-0"



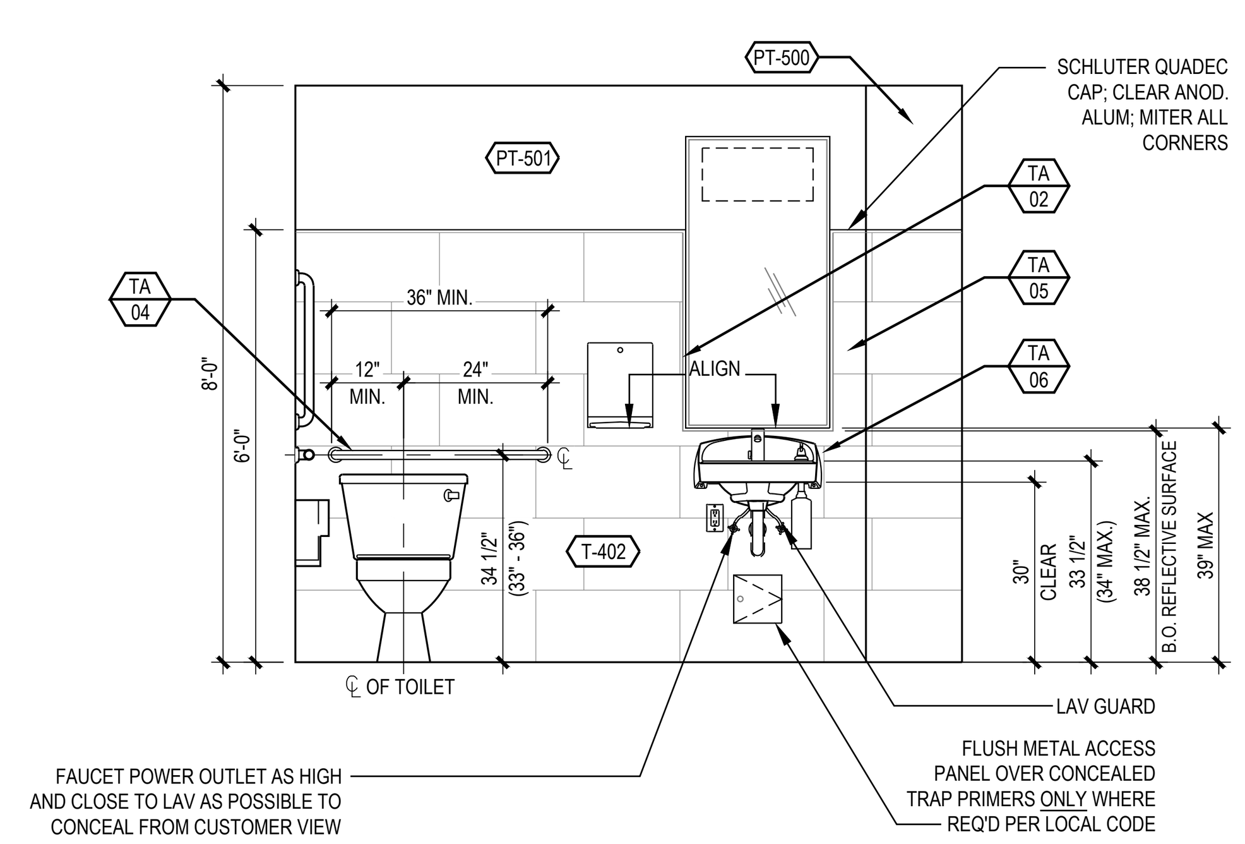
6
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



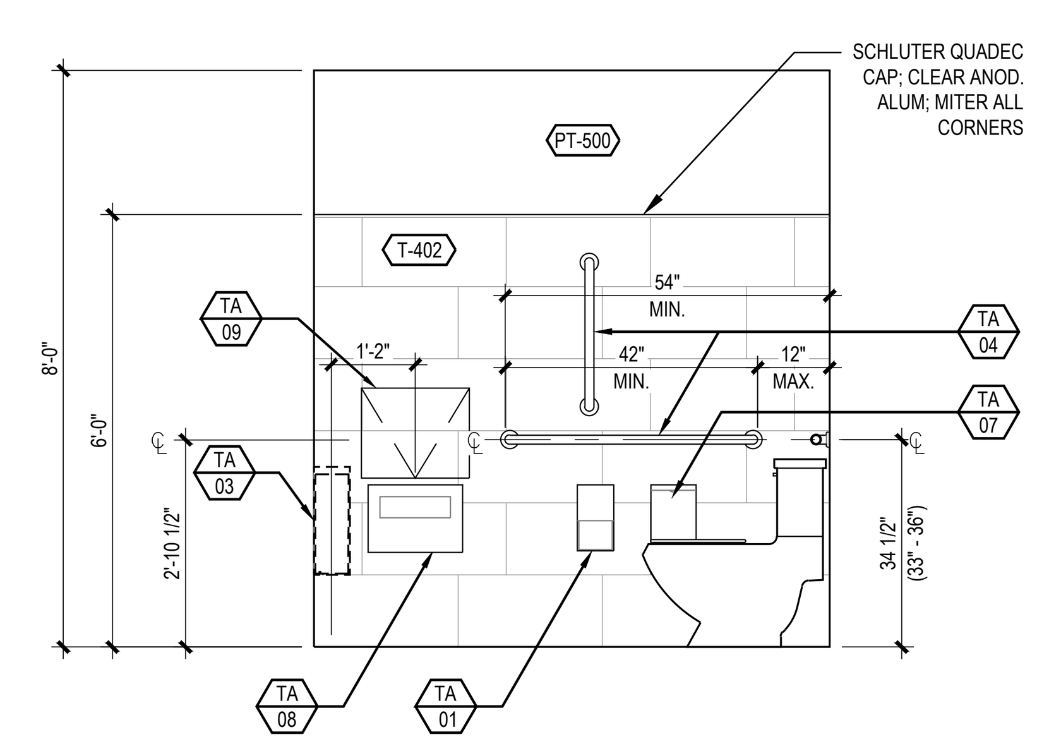
5
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



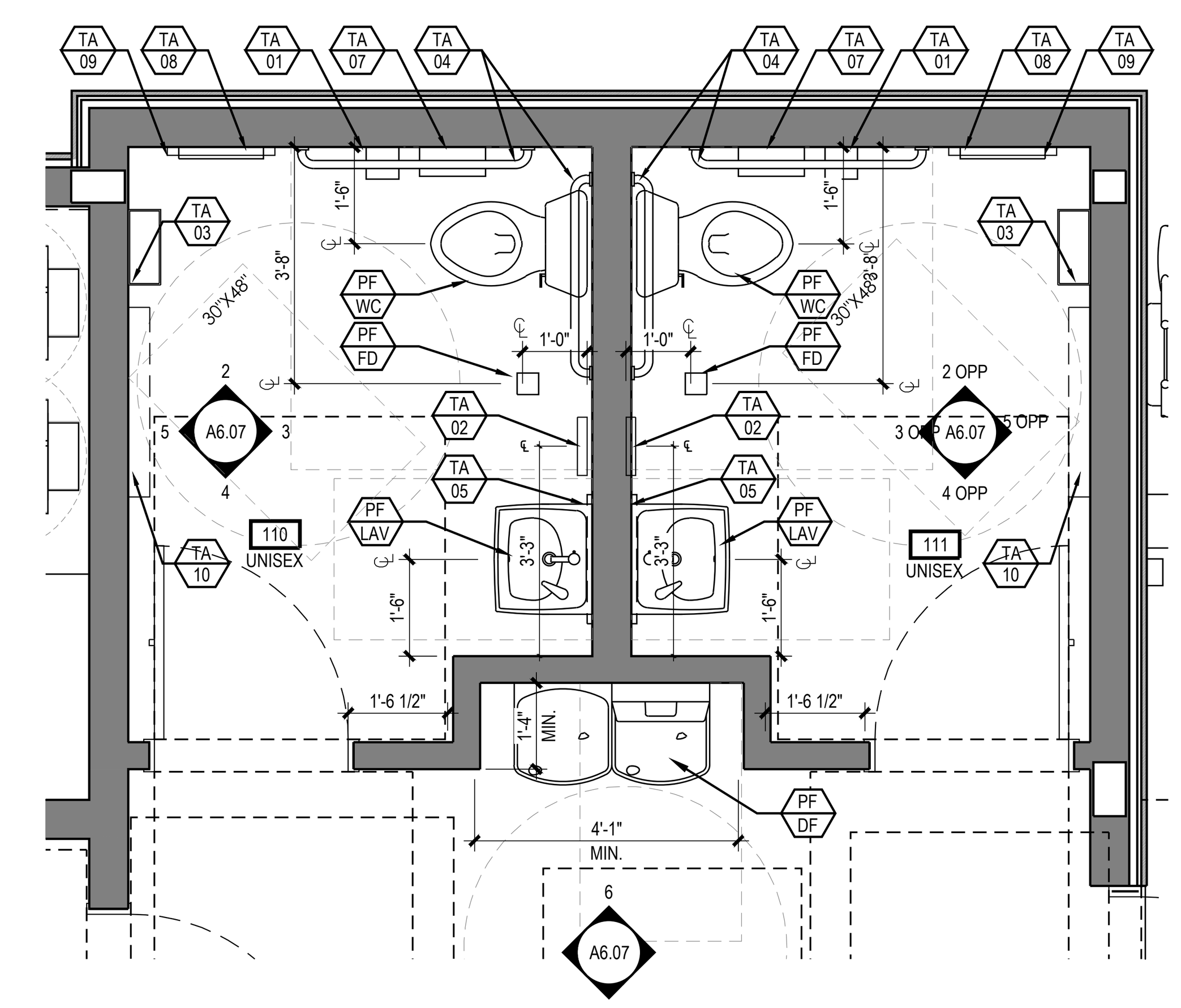
4
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



3
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



2
A6.07
INTERIOR ELEVATION
3/8" = 1'-0"



NOTE:
1. SEE "FLOOR CONSTRUCTION PLANS" FOR ALL DOOR & WINDOW TAGS.

1
A6.07
ENLARGED RESTROOM PLANS
3/8" = 1'-0"

JANITOR CLOSET

RESTROOMS

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
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CORESTATES, INC.
COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
NUMBER A-7504
ARCHITECT
January 08, 2021

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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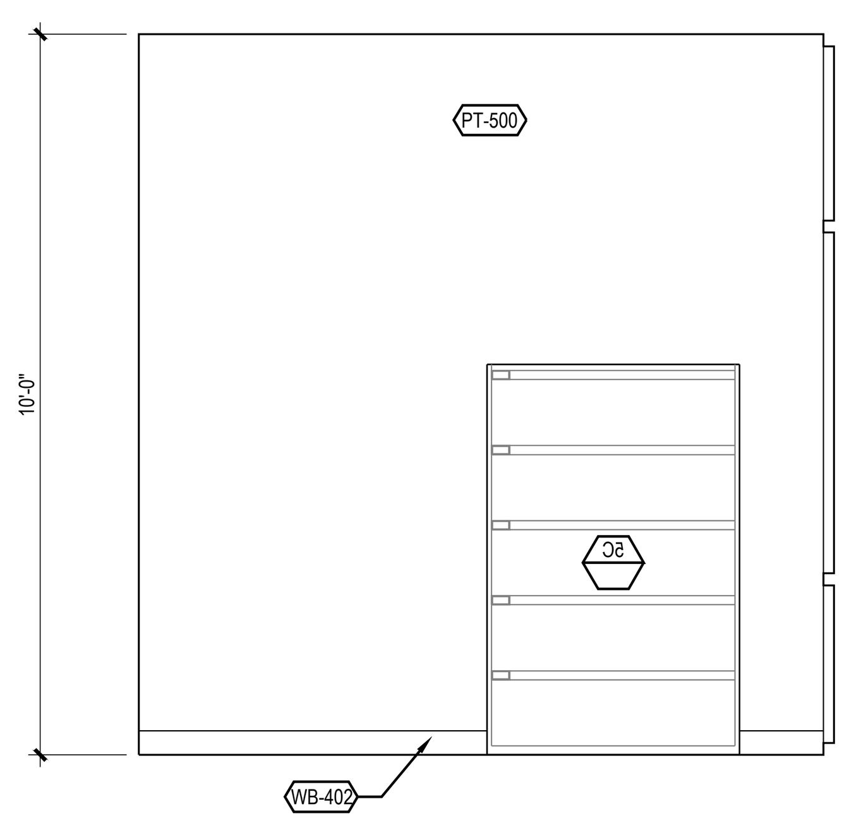
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

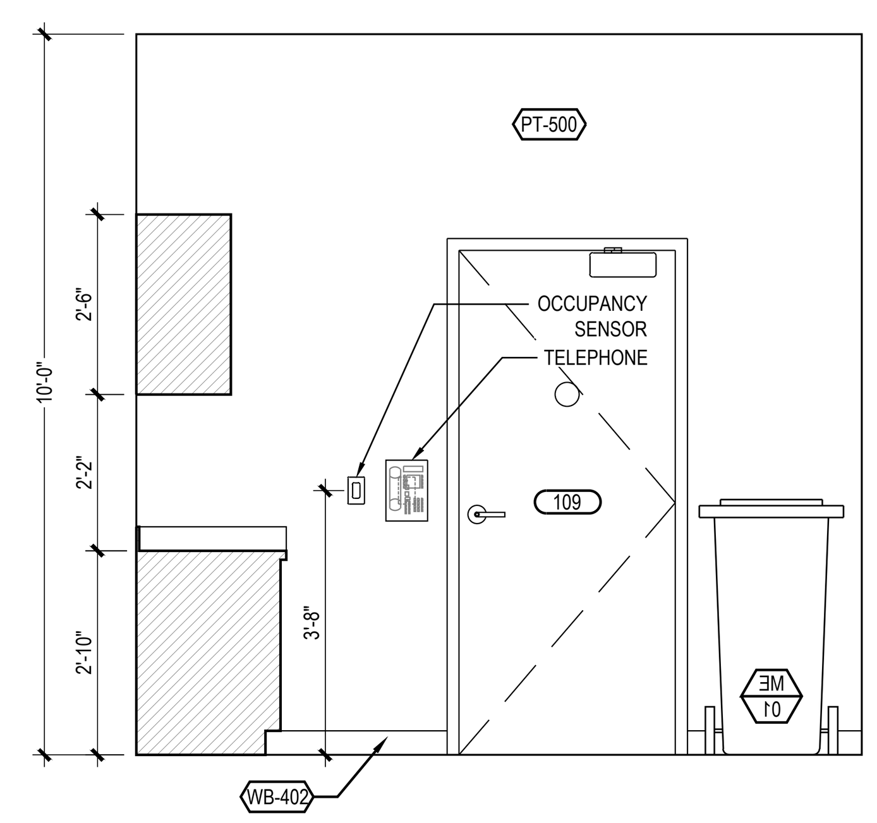
RESTROOM AND JANITOR: ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER

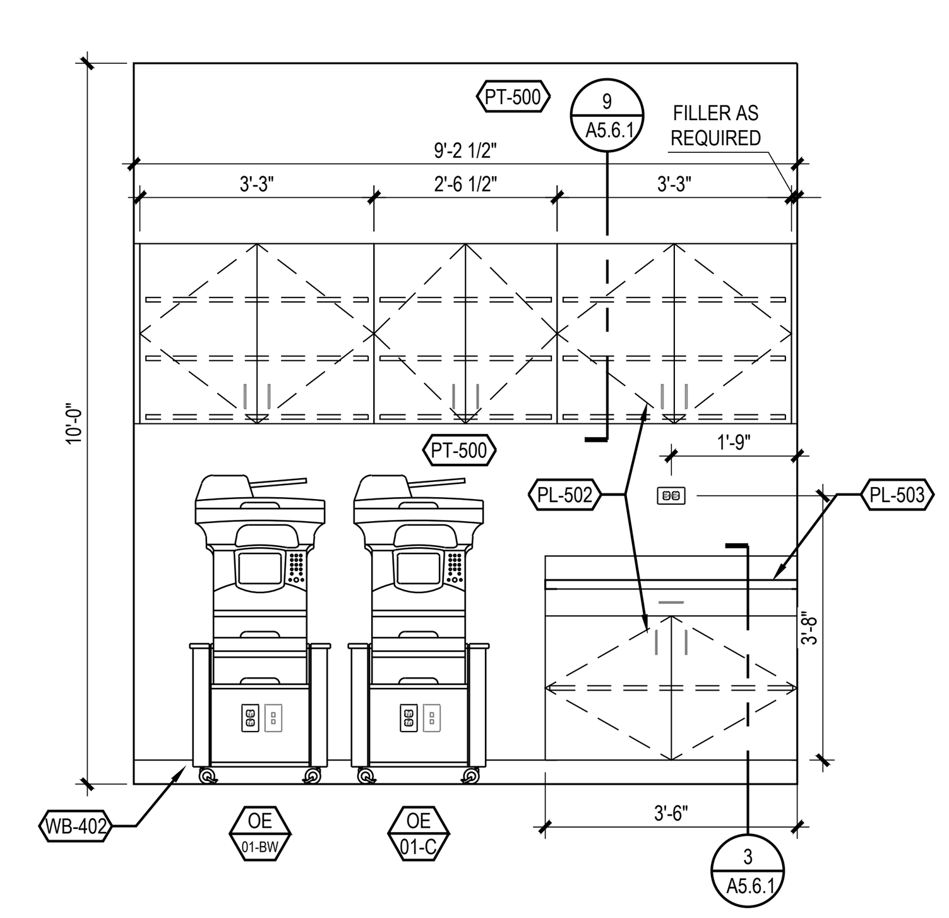
A6.07



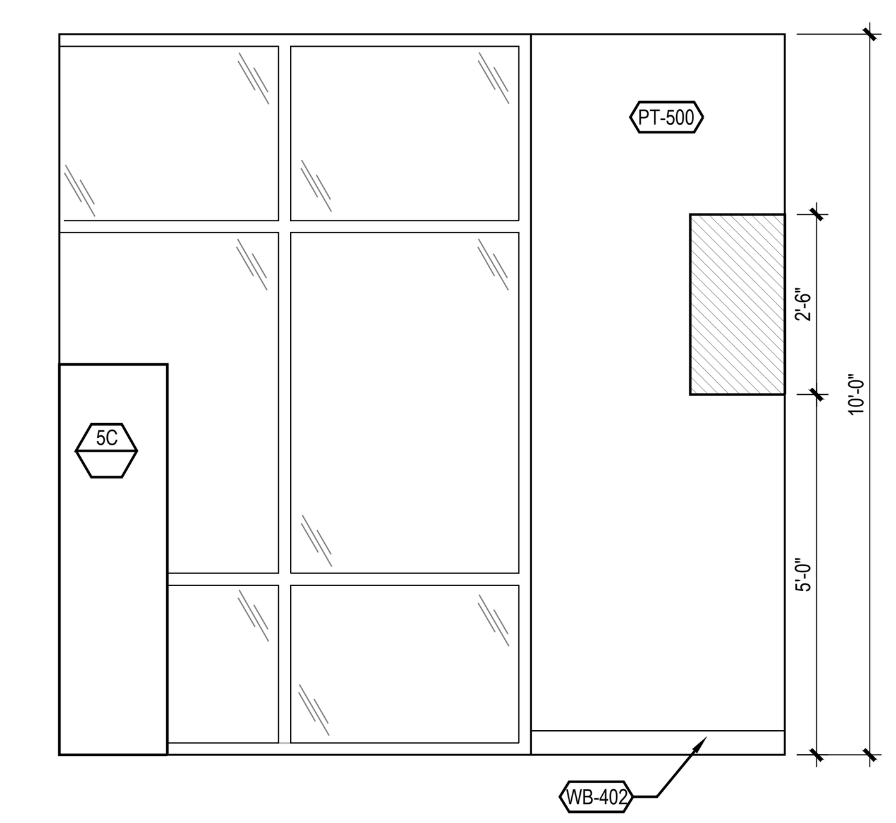
10 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



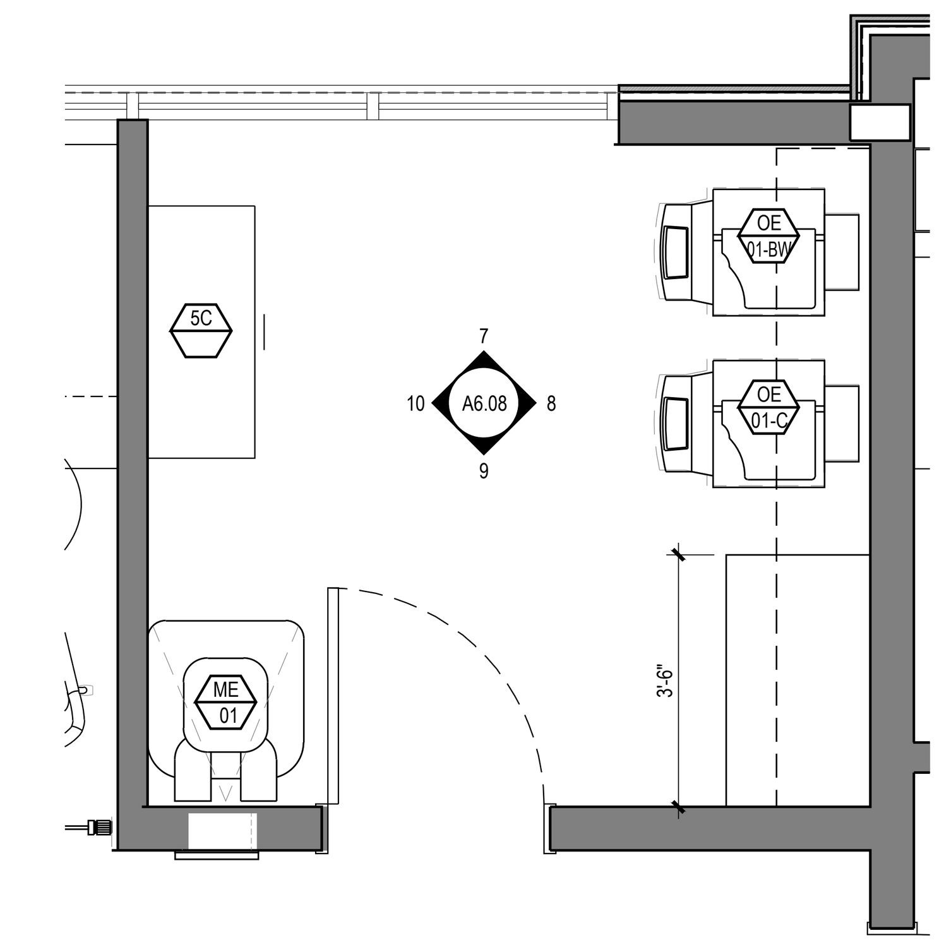
9 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



8 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"

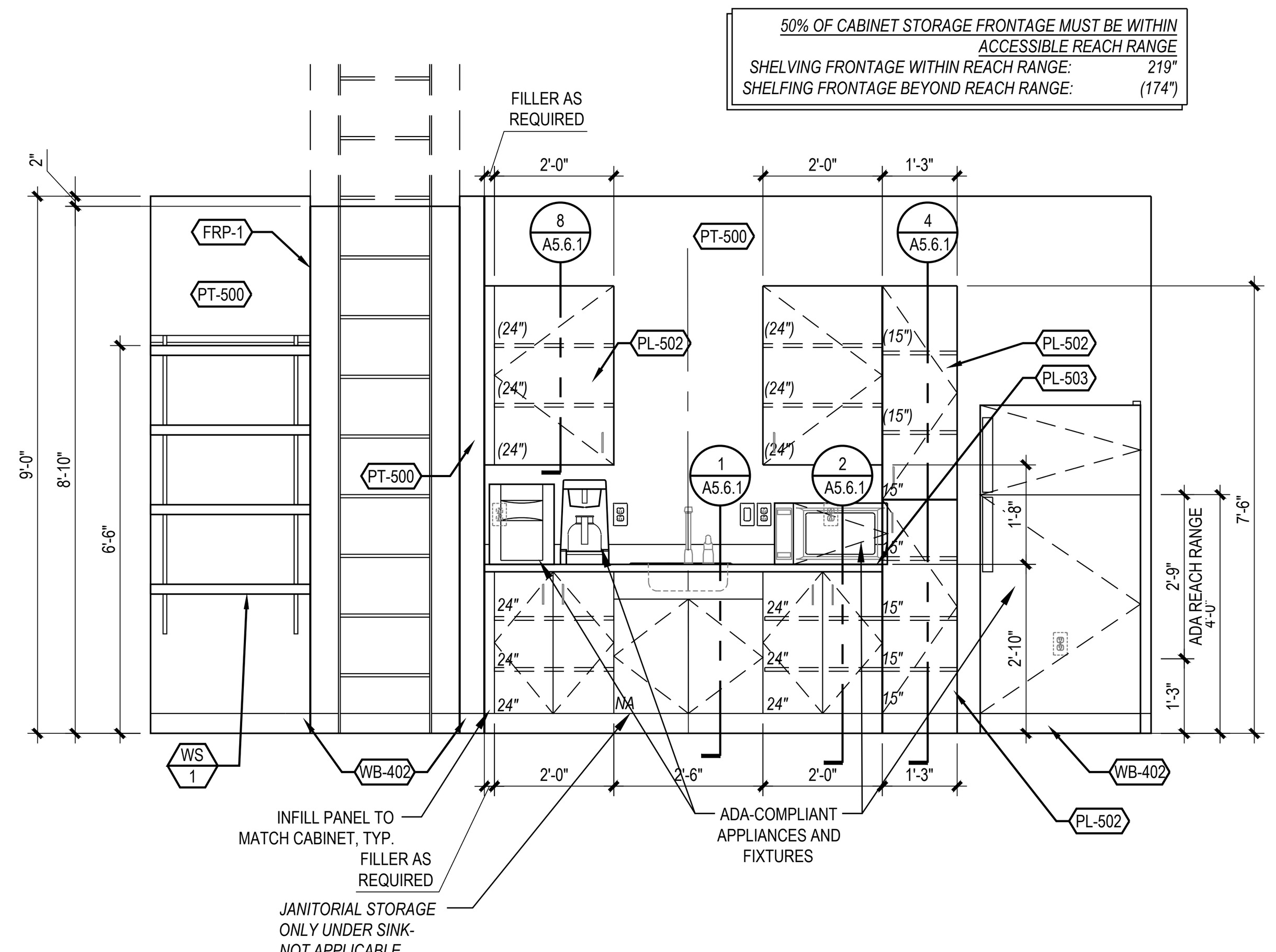


7 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"

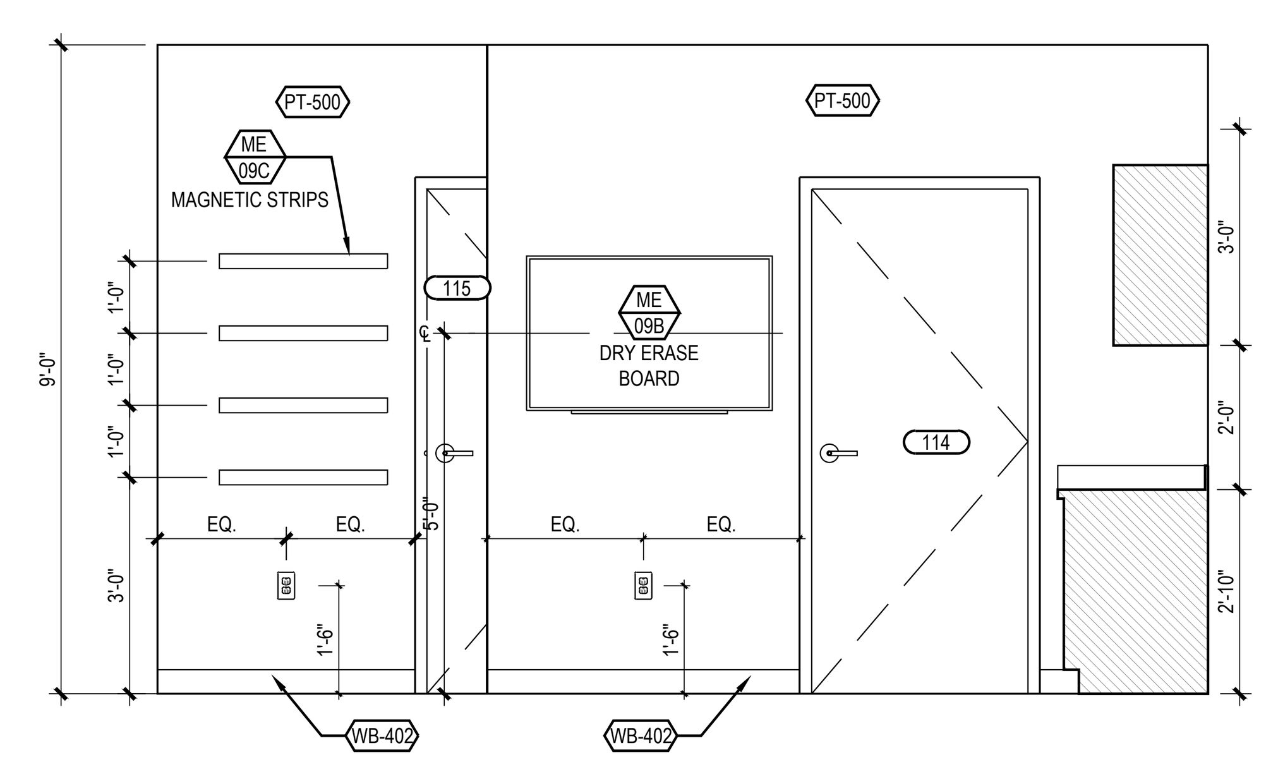


6 A6.08 ENLARGED PRINT/FILE ROOM PLAN
3/8" = 1'-0"

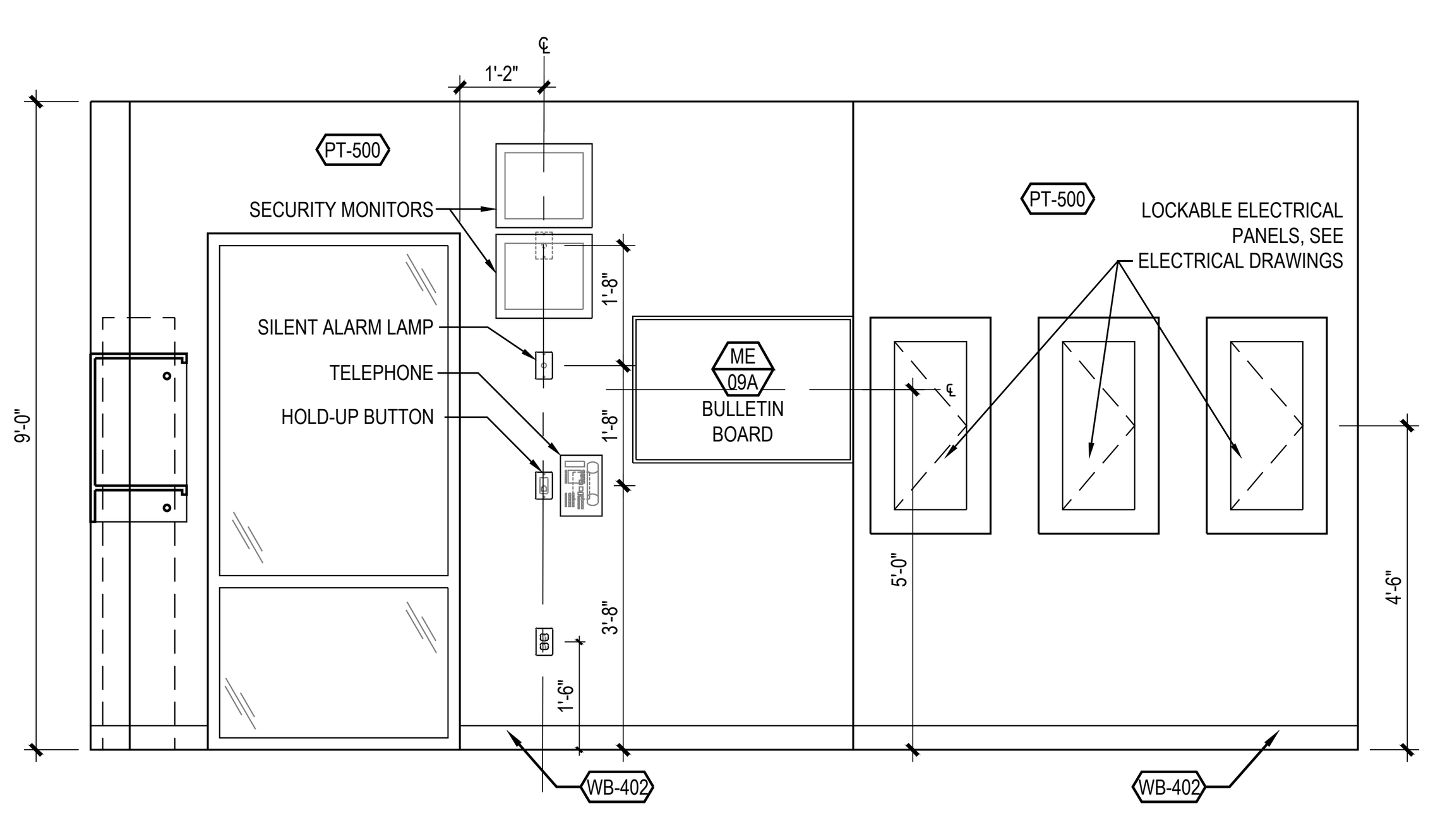
50% OF CABINET STORAGE FRONTAGE MUST BE WITHIN ACCESSIBLE REACH RANGE
SHELVING FRONTAGE WITHIN REACH RANGE: 219"
SHELFING FRONTAGE BEYOND REACH RANGE: (174")



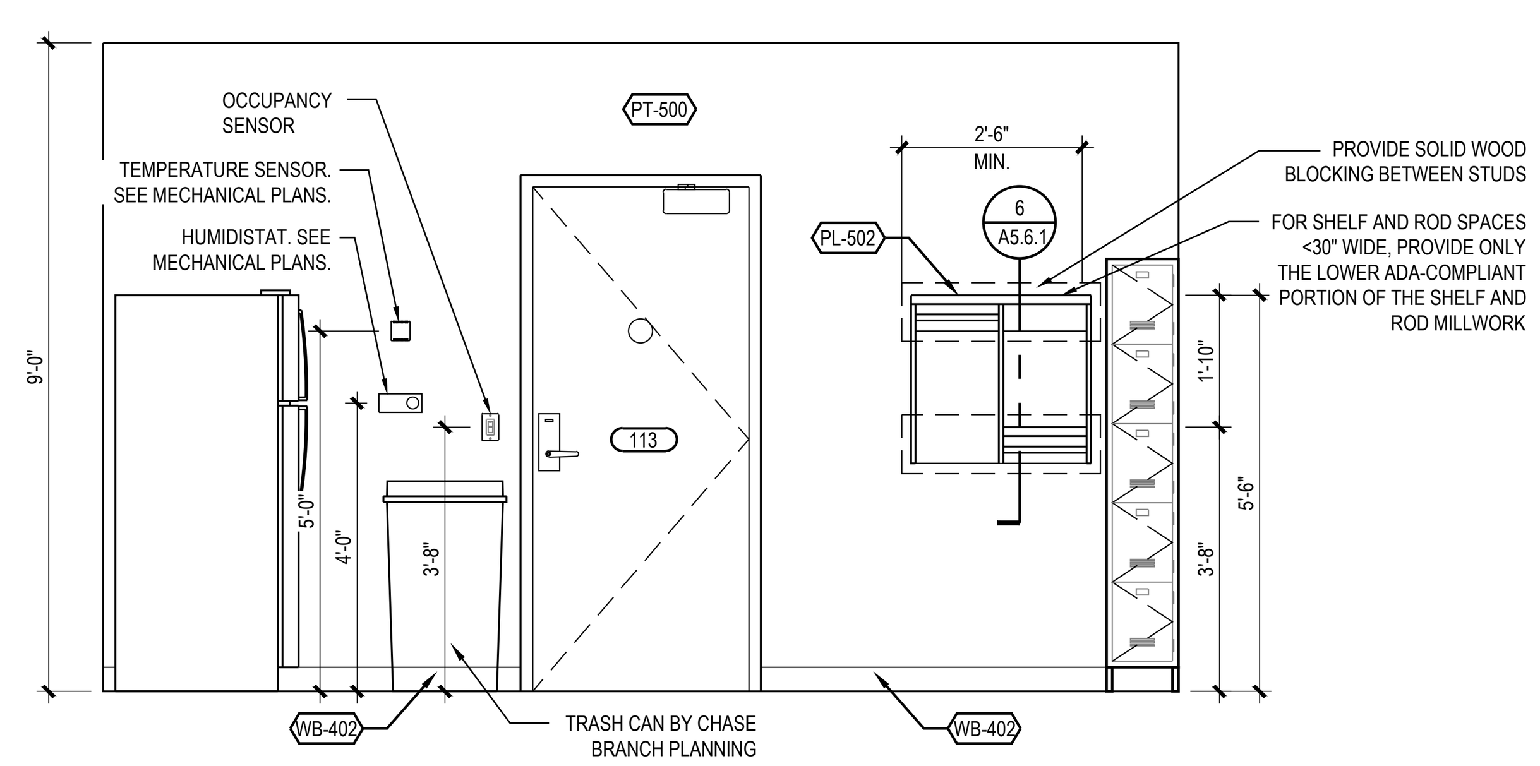
5 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



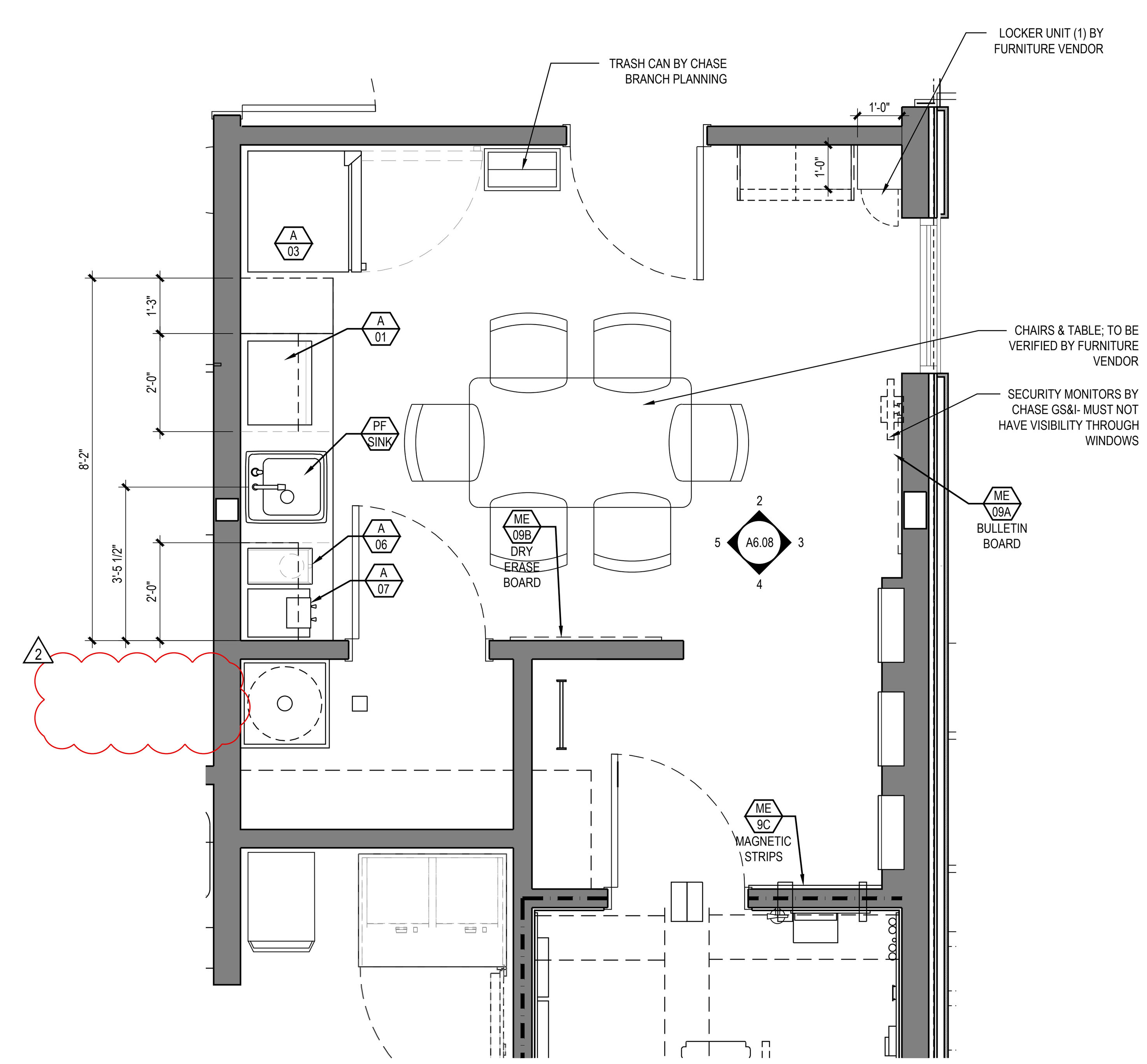
4 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



3 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



2 A6.08 INTERIOR ELEVATION
3/8" = 1'-0"



NOTE:
1. SEE "FLOOR CONSTRUCTION PLANS" FOR ALL WALL, DOOR & WINDOW TAGS.
2. ALL FURNITURE TO BE VERIFIED BY CLIENT & FURNITURE VENDOR.

1 A6.08 ENLARGED LOUNGE PLAN
3/8" = 1'-0"

FILE & PRINTER ROOM

LOUNGE

CHASE

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ARCHITECT OF RECORD
STATE OF MISSOURI
ROBERT BRUCE LaSURS
June 15, 2021
NUMBER A-7504
ARCHITECT
ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

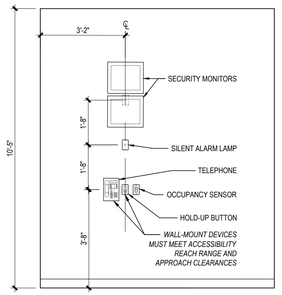
ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

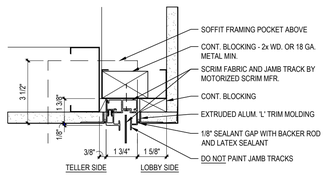
SHEET TITLE
LOUNGE, FILE, AND PRINTER ROOM: ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER
A6.08



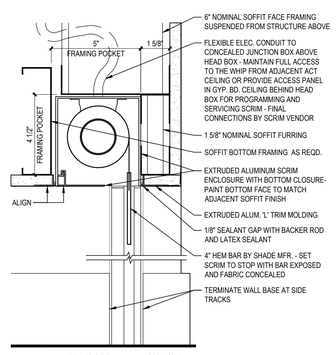
11 / A6.10 INTERIOR ELEVATION - HALLWAY

3/8" = 1'-0"



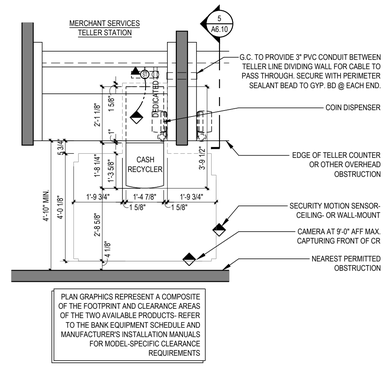
7 / A6.10 SCRIM JAMB

3" = 1'-0"



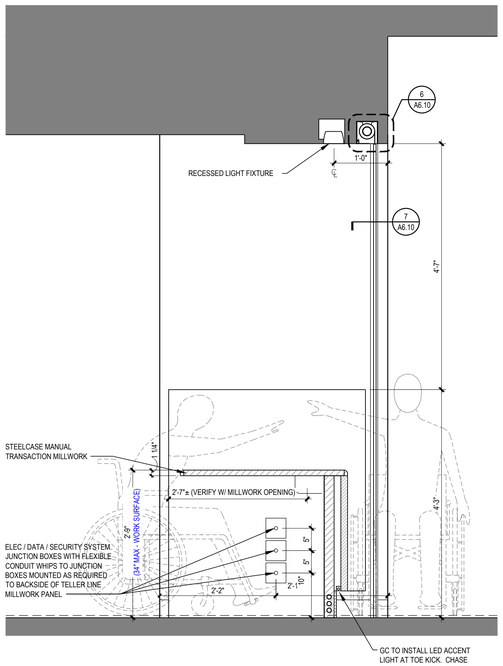
6 / A6.10 SCRIM HEAD

3" = 1'-0"



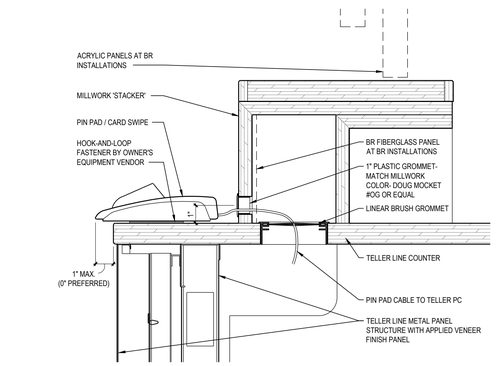
10 / A6.10 CASH RECYCLER - CLEARANCES AND CONNECTIONS

3/8" = 1'-0"



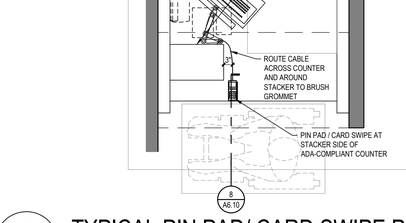
5 / A6.10 SECTION @ ACCESSIBLE TELLER

3/4" = 1'-0"



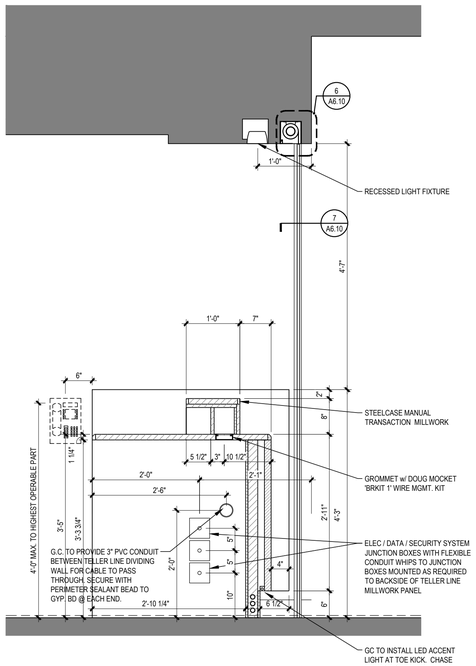
8 / A6.10 PIN PAD/ CARD SWIPE MOUNTING DETAIL

3" = 1'-0"



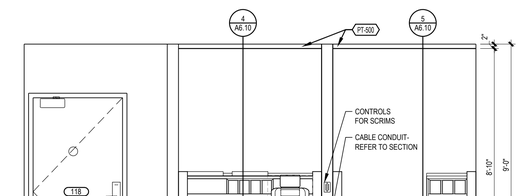
9 / A6.10 TYPICAL PIN PAD/ CARD SWIPE POSITON

1/2" = 1'-0"



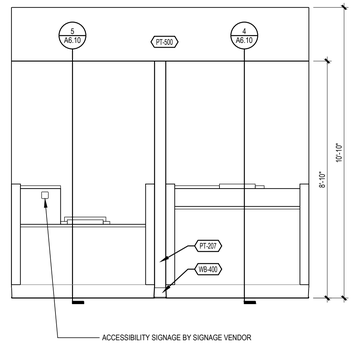
4 / A6.10 SECTION @ STANDARD TELLER

3/4" = 1'-0"



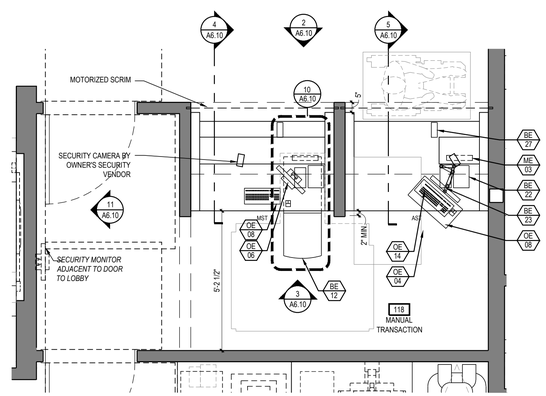
3 / A6.10 INTERIOR ELEVATION - EMPLOYEE SIDE

3/8" = 1'-0"



2 / A6.10 INTERIOR ELEVATION - CUSTOMER SIDE

3/8" = 1'-0"



1 / A6.10 ENLARGED TELLER PLAN

3/8" = 1'-0"

CHASE

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COA #: A-2014026908

ARCHITECT OF RECORD

STATE OF MISSOURI
ROBERT BRUCE LaSURS
January 08, 2021
NUMBER A-7504
ARCHITECT

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

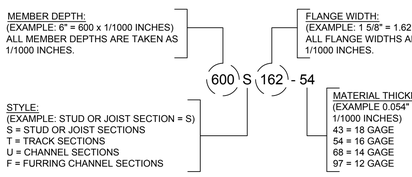
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	C.THEBEAU
CHECKED BY:	B.LaSURS
VERSION:	SE_1.00

SHEET TITLE

MANUAL TRANSACTION: ENLARGED PLAN, INTERIOR ELEVATIONS, AND DETAILS

SHEET NUMBER

A6.10



GENERAL STRUCTURAL NOTES

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
5. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
6. DO NOT SCALE OFF DRAWINGS.

GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

1. RISK CATEGORY = II

2. MINIMUM FIRST FLOOR LIVE LOADS:
   - A. UNIFORM LIVE LOAD = 100 PSF
   - B. CONCENTRATED LIVE LOAD = 2000 LB
   - C. IMPACT LOAD = N/A
   - D. LIVE LOAD REDUCTION = N/A

3. ROOF DEAD LOAD = 25 PSF

4. MINIMUM ROOF LIVE LOAD = 20 PSF

5. ROOF SNOW DATA:
   - A. SNOW IMPORTANCE FACTOR, Is = 1.00
   - B. GROUND SNOW LOAD, Pg = 20 PSF
   - C. FLAT ROOF SNOW LOAD, Pf = 20 PSF
   - D. SNOW EXPOSURE FACTOR, Ce = 1.0
   - E. THERMAL FACTOR, Ct = 1.0
   - F. DRIFT LOAD DATA INDICATED ON ROOF FRAMING PLAN

6. WIND DESIGN DATA:
   - A. WIND IMPORTANCE FACTOR, Iw = 1.0
   - B. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), V_{ULT} = 110 MPH
     NOMINAL DESIGN WIND SPEED, V_{ASD} = 85 MPH
   - C. WIND EXPOSURE CATEGORY = B
   - D. INTERNAL PRESSURE COEFFICIENTS = ±0.18
   - E. WIND DESIGN PRESSURES PER ASCE 7-10

7. SEISMIC DESIGN DATA:
   - A. SEISMIC IMPORTANCE FACTOR, Ie = 1.00
   - B. MAPPED SPECTRAL RESPONSE COEFFICIENTS
     - Ss = 0.100
     - S1 = 0.068
   - C. SITE CLASS = C
   - D. DESIGN SPECTRAL RESPONSE COEFFICIENTS
     - SDS = 0.087
     - SD1 = 0.068
   - E. SEISMIC DESIGN CATEGORY = B
   - F. BASIC SEISMIC FORCE RESISTANCE SYSTEMS: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR
   - G. SEISMIC RESISTANCE (R = 3.0)
   - H. DESIGN BASE SHEAR, V = 4.8 KIPS
   - I. SEISMIC RESPONSE COEFFICIENTS, Cs = 0.025
   - J. PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

8. FOUNDATION DESIGN DATA
   - A. ALLOWABLE BEARING PRESSURE = 2300 PSF COLS., 1900 PSF STRIP
     FTG.MINIMUM FROST DEPTH = 36"

9. FLOOD DESIGN DATA: N/A

10. SPECIAL LOADS: N/A

FOUNDATIONS AND SLAB-ON-GRADE

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI) IN THEIR PROJECT No. 03382159 DATED DECEMBER 2, 2020.
2. ALL SUBGRADE SHALL BE PREPARED IN STRICT CONFORMANCE TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFER TO THE GEOTECHNICAL REPORT, SUPPLEMENTARY LETTERS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOIL CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.
4. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.
5. ANY FILL REQUIRED BELOW SLABS-ON-GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE GEOTECHNICAL REPORT.
6. ALL FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ALLOWABLE BEARING PRESSURE AS NOTED ABOVE FOR FOOTINGS UNDER FULL SERVICE DEAD AND LIVE LOADS.
7. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
8. THE TOP OF EXTERIOR FOOTING ELEVATION SHALL BE SET A MINIMUM OF 8" BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE AND A MINIMUM OF 8" BELOW FINISH FLOOR. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR AT MINIMUM BEARING DEPTH BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE.
9. FINAL ADJACENT GRADE IS DEFINED AS THE LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE FOUNDATION FOR PERIMETER (OR EXTERIOR) FOOTINGS AND FINISHED FLOOR LEVEL FOR INTERIOR FOOTINGS.
10. VERIFY THE USE AND EXTENT OF PERIMETER INSULATION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF FOUNDATIONS. INSTALL PERIMETER INSULATION AS REQUIRED.
11. STANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACK FILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST.
12. HORIZONTAL BARS IN FOOTINGS AND CONCRETE WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS, UNO.
13. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. PENETRATIONS SHALL BE FOUNDATION STEM WALL OR 6" CLEAR BELOW FOOTING.

CONCRETE AND REINFORCING STEEL

1. ALL CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN CONCRETE INSTITUTE BUILDING CODE (ACI 318) AND WITH SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
2. ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AS NOTED IN THE TABLE BELOW.
3. THE SLUMP OF ALL CONCRETE SHALL BE 4" ±1".
4. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED PER ACI-318, LATEST EDITION, BASED ON FREEZE-THAW EXPOSURE SEVERITY AND AGGREGATE SIZE.
5. MAXIMUM NOMINAL COURSE AGGREGATE SIZE SHALL BE 3/4" TYPICAL UNLESS NOTED OTHERWISE.
6. THE MINIMUM PORTLAND CEMENT CONTENT (ASTM C150 TYPE I/II) OF ALL CONCRETE SHALL CONFORM TO THE FOLLOWING TABLE:

LOCATION	SPECIFIED COMPRESSIVE STRENGTH (PSI)	W/CM RATIO	AIR-ENTRAINED CONCRETE (%)
SLAB-ON-GRADE	4000	0.45 - 0.55	2 ±1
FOUNDATIONS	4500	0.45 - 0.55	5 ±1

7. ALL REINFORCED CONCRETE WORK SHALL BE PER "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318, LATEST EDITION.
8. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGNS SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS.
9. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
10. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
11. CONCRETE REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
12. HOOK ENDS OF BARS INTERRUPTED BY OPENINGS. HOOK TOP BARS AT ALL EDGES. AT ALL WALL AND SLAB OPENINGS, PROVIDE 2 - #5BARS x OPENING WIDTH PLUS 4 FEET(EACH SIDE) EACH FACE UNLESS SHOWN OTHERWISE.
13. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.
14. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".
15. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

LIGHT GAGE METAL FRAMING

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AISI-NAS, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS", LATEST EDITION. PROVIDE SIGNED AND SEALED CALCULATIONS AND DRAWINGS FOR ALL LIGHT GAGE STRUCTURAL ELEMENTS OF THE BUILDING, INCLUDING THE EXTERIOR METAL STUDS (CURTAIN WALL), AND ALL EXTERIOR CEILINGS.

2. ALL STRUCTURAL STUDS AND JOISTS 22, 20, AND 18 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C955 WITH A YIELD STRENGTH OF 33,000 PSI.

3. ALL STRUCTURAL STUDS AND JOISTS 16, 14, AND 12 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING ASTM C955, WITH YIELD STRENGTH OF 50,000 PSI.

4. ALL STRUCTURAL TRACK AND BRIDGING SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C595, WITH YIELD STRENGTH OF 33,000 PSI.

5. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGELS, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.

6. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653 FOR MINIMUM G60 COATING. ATTACH SIMILAR COMPONENTS BY WELDING. ATTACH DISSIMILAR COMPONENTS BY WELDING, BOLTING OR SCREW FASTENERS, AS STANDARD WITH MANUFACTURER. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED AND EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK.

7. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.

8. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS.

9. WHERE STUD SYSTEM ABUTS STRUCTURAL COLUMN OR WALLS, ANCHOR ENDS OF STIFFENERS TO SUPPORTING STRUCTURE.

10. SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENERS AT BOTH INSIDE AND OUTSIDE FLANGES.

11. LIGHT GAGE METAL SHOP DRAWINGS AND CALCULATIONS MUST BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THIS SITE IS LOCATED.

LIGHT GAGE METAL FRAMING
PRODUCT IDENTIFICATION

ACCORDING TO STEEL STUD MANUFACTURERS
ASSOCIATION FOUR PART IDENTIFICATION CODE SYSTEM

STRUCTURAL STEEL

1. THE USE OF ROLLED STEEL SECTIONS AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STRUCTURAL STEEL GRADES NOT MEETING THE ASTM SPECIFICATIONS FOR ROLLED SHAPES LISTED IN AISC STEEL CONSTRUCTION MANUAL TABLE 2-4 WILL REQUIRE TESTING BY AN APPROVED LABORATORY.
2. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
3. STRUCTURAL STEEL SHALL CONFORM TO:

WIDE FLANGE (WF)	ASTM A992 (50 KSI)
SHAPES (L,T,C,PL)	ASTM A36
STRUCTURAL TUBE (HSS)	ASTM A500 (46 KSI)
STEEL PIPE (HSS)	ASTM A500 (42 KSI)
ANCHOR BOLTS	ASTM F1553 (36 KSI) U.N.O.
FRAMING BOLTS	ASTM A325 OR A490
SHEAR STUDS	ASTM A108
WELDING ELECTRODES	E70XX

4. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
5. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
6. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E7OXX U.N.O.
8. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLES FOR "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" AT THE BOTTOM OF EACH PAGE IN THE "PROPERTIES AND REACTION VALUES", PART 2 OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION". PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. A REGISTERED PROFESSIONAL ENGINEER SHALL INSPECT THE WELDING AND HIGH-STRENGTH BOLTING OF STRUCTURAL STEEL FRAMING AND WELDING, BOLTING AND FASTENING OF LIGHT WEIGHT MATERIAL SYSTEMS, AND METAL SIDINGS OF BUILDING.
17. ALL STEEL MEMBERS SHALL BE MADE IN AN APPROVED FABRICATOR'S SHOP; THE APPROVED FABRICATOR SHALL SUBMIT THE CERTIFICATE OF COMPLIANCE TO THE BUILDING INSPECTOR PRIOR TO ERECTION.

STEEL DECK

1. STEEL ROOF DECK IS INDICATED IN THE ROOF FRAMING NOTES LOCATED ON THE ROOF PLAN DRAWING. STEEL DECK TO BE PLACED ON ENTIRE ROOF STRUCTURE RESTING ON LIGHT GAGE TRUSSES (INCLUDING OVERFRAMED AREAS)
2. ALL STEEL ROOF DECK SHALL BE HOT-DIPPED GALVANIZED, G60 COATING AS PER ASTM SPECIFICATIONS
3. ALL STEEL ROOF DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.
4. ALL STEEL ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (i.e. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION).
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS)
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB.
7. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS.
8. ANY ELECTRICAL WORK WEIGHING MORE THAN 5PSF OR 50 LBS CONCENTRATED SHALL BE HUNG FROM STEEL BEAMS ONLY. FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS. SEE STRUCTURAL STEEL NOTE 11 (OF STRUCTURAL STEEL NOTES) FOR ADDITIONAL STEEL REQUIRED BY MECHANICAL/ELECTRICAL TRADES TO SUPPORT THEIR EQUIPMENT.
9. METAL DECK CONTRACTOR TO PROVIDE 18 GAGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
10. CUT OUT METAL DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.

EXTERIOR/OSB SHEATHING

1. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATION, LATEST EDITION.

2. WALL SHEATHING SHALL BE 5/8" DENSGLASS. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ #10 TEK SCREWS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O.

3. REFER TO DRAWINGS FOR SPECIAL SHEATHING OR NAILING REQUIREMENTS. PROVIDE SIMPSON "PSCL" PANEL CLIPS, MIN. 1 CLIP PER SIDE TO ALLOW FOR EXPANSION. THE SHEATHING SHALL NOT BE USED AS A NAILING EDGE.

4. ROOF SHEATHING SHALL BE 23/32" (3/4" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 48/24, UNO. FOR NON-COMBUSTABLE BUILDING CONSTRUCTION SHEATHING TO BE FIRE TREATED. COORD WITH ARCH. DWGS. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ #7 x 2" WOOD SCREWS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.

SAWN LUMBER

1. ALL GRADES OF LUMBER INDICATED ON STRUCTURAL DRAWINGS SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
   - A. SOUTHERN PINE NO. 1.
   - B. DOUGLAS FIR-LARCH NO. 1.
   - C. HEM-FIR NORTH NO. 1

2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS.

3. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

4. CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

5. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE AND CONFORM TO THE FOLLOWING TABLE:

FASTENER SCHEDULE

CONNECTION TYPE	SIZE / SPACING
1. JOIST TO SILL OR GIRDER, TOENAIL	(3-8d)
2. BRIDGING TO JOIST, TOENAIL EACH END	(2-8d)
3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST, FACE NAIL	(2-8d)
4. WIDER THAN 1" X 6"(25MMx152MM) SUBFLOOR TO JOIST, FACE NAIL	(3-8d)
5. 2" (52MM) SUBFLOOR TO GIRDER, BLIND AND FACE NAIL	(2-16d)
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	(16d @16" O.C.)
7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS	(3-16d PER 16")
8. TOP PLATE TO STUD, END NAIL	(2-16d)
9. STUD TO SOLE PLATE	(2-16d END NAIL)
10. DOUBLE STUDS, FACE NAIL	(16d @ 24", O.C.)
11. DOUBLE TOP PLATES, TYPICAL FACE NAIL	(16d @ 16" O.C.)
12. DOUBLE TOP PLATES, LAP SPLICE	(8-16d)
13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3-8d)
14. RIM JOIST TO TOP PLATE, TOENAIL	(8d @ 6" O.C.)
15. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2-16D)
16. CONTINUOUS HEADER, TWO PIECES	(16d @ 16" O.C. ALONG EDGE)
17. CEILING JOISTS TO PLATE, TOENAIL	(3-8d)
18. CONTINUOUS HEADER TO STUD, TOENAIL	(4-8d)
19. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	(3-16d)
20. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3-16d)
21. RAFTER TO PLATE, TOENAIL	(3-8d)
22. 1" (25MM) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2-8d)
23. 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(2-8d)
24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3-8d)
25. BUILT-UP CORNER STUDS	(16d @ 24" O.C.)
26. 2" PLANKS	(2-16d AT EACH SPLICE)
27. 2x6 BOX BEAM / HEADER	(12d @ 12" O.C.)
28. BUILT-UP GIRDER AND BEAMS	(20d @ 32" O.C. AT TOP & BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE)

MASONRY

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-11/ ASCE 5-11 / TMS 402-11). AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-11/ ASCE 6-11 / TMS 602-11).
2. MINIMUM NET COMPRESSIVE STRENGTH OF NORMAL WEIGHT CMU BLOCK ASSEMBLY SHALL BE 1900 P.S.I.(f'm). MORTAR FOR MASONRY SHALL BE TYPE "S" OR "M".
3. FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. FILL ALL CELLS AS REQUIRED WITH 3,000 P.S.I. GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX TO ENGINEER FOR APPROVAL.
5. MINIMUM VERTICAL REINFORCING SHALL BE 1-#5 @ 48" OR 1-#4 @ 32" O.C., (U.N.O.).
6. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.).
7. MINIMUM SPLICE FOR HORIZONTAL JOINT REINFORCING = 12".
8. ALL CELLS BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY FILLED SOLID WITH GROUT.
9. ALL KNOCK OUT BLOCK HORIZONTAL BARS SHALL HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS SHALL BE SAME AS HORIZONTAL BARS.
10. ALL INTERSECTING WALLS AND CORNER WALLS SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3 INCHES ON UNIT BELOW.

SHOP DRAWING SUBMITTALS

1. THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW AND APPROVE THEM, AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND APPROVED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. PROVIDE AMPLE TIME FOR THE BUILDING OFFICIAL TO REVIEW THE DOCUMENTS.

2. REFER TO PROJECT SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

3. SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

4. SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS DESIGNED BY THE CONTRACTOR. ALL OF THIS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

5. REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

6. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

7. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL:
   - A. REINFORCING STEEL
   - B. STRUCTURAL STEEL
   - C. LIGHT GAGE STEEL DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL IN THE STATE IN WHICH THIS SITE IS LOCATED.

8. SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."

9. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THE ENGINEER'S REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THIS REVIEW WILL CHECK THE COMPATIBILITY OF LOADS AND POSITIONS OF LOADS IMPARTED ONTO THE BUILDING STRUCTURE, AND COMPATIBILITY OF CONNECTIONS WITH THE BUILDING STRUCTURE. THE MANUFACTURER/SUPPLIER AND IT'S SPECIALTY STRUCTURAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.
   - A. CONCRETE MIXES
   - B. CONCRETE FORMWORK

10. NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE STRUCTURAL ENGINEER.

11. CONCRETE IS A PRE-ENGINEERED MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 5, AND SHALL BE SUBMITTED TO THE INDEPENDENT TESTING LAB WITH APPROPRIATE HISTORICAL TEST DATA AND ANALYSIS FOR REVIEW AND APPROVAL. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.

12. MANY VARIABLES, INCLUDING MIX COMPONENTS AND ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.

13. GENERAL CONTRACTOR SHALL PRE-CHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. ALL SUBMITTAL MATERIALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT THE REVIEW STAMP OF THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.

14. GENERAL CONTRACTOR SHALL SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR DELIVERY, PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS, EXCLUDING DELIVERY TIME, FOR ENGINEER'S PROCESSING AND REVIEW OF SHOP DRAWINGS. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

15. SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT FROM THE ENGINEER. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON. SUCH USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS WILL NOT BE ALLOWED WITHOUT PRIOR CONSENT FROM THE ENGINEER.

17. WHEN USING ELECTRONIC FORMAT FOR SUBMITTALS, THE CONTRACTOR SHALL PROVIDE ONE PRINTED HARD COPY FOR ENGINEER REVIEW OR EXECUTE AN AGREEMENT FOR REIMBURSING THE ENGINEER FOR PRINTING COSTS FOR ONE COPY.

DEFERRED SUBMITTALS

SHOP DRAWING SUBMITTALS REQUIRED BY THESE GENERAL STRUCTURAL NOTES WHICH CONTAIN DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER OTHER THAN THE ENGINEER OF RECORD, SHALL BE SUBMITTED DURING CONSTRUCTION TO THE CITY FIELD INSPECTOR FOR REVIEW. THE DOCUMENTS WILL FIRST BE REVIEWED BY THE ENGINEER OF RECORD AND DETERMINED TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION:

- A. OPEN WEB STEEL JOIST
- B. LIGHT GAGE METAL FRAMING

CHASE
JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP #38200P368999

CORE STATES
GROUP
CORESTATES, INC.
1700 Industrial Drive Suite B
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www.core-states.com

ENGINEER OF RECORD

DAVID BALMA
NUMBER
PE-2015003007
04/20/21

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

GENERAL
STRUCTURAL
NOTES

SHEET NUMBER

S0.0

STRUCTURAL SPECIAL INSPECTIONS

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF **THE 2018 INTERNATIONAL BUILDING CODE**.
2. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
   C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
5. STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, UNLESS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
6. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED SECTIONS/LOCATIONS:

A. SOILS - SECTION 1705.6 PER TABLE 1705.6

SPECIAL INSPECTION AND VERIFICATION OF SOILS				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
Y	1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-----	X	1705.6
Y	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-----	X	1705.6
Y	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-----	X	1705.6
Y	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-----	1705.6
Y	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-----	X	1705.6

B. CONCRETE CONSTRUCTION - SECTION 1705.3 PER TABLE 1705.3

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
Y	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS AND VERIFY PLACEMENT.	-----	X	1908.4	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3
N	2. REINFORCING BAR WELDING				
-	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-----	X	-----	AWS D1.4 ACI 318: 26.6.4
-	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16	-----	X	-----	
-	c. INSPECT OTHERS WELDS	X	-----	-----	
Y	3. INSPECTION OF ANCHORS CAST IN CONCRETE	-----	X	-----	ACI318: 17.8.2
Y	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
N	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-----	-----	ACI 318: 17.8.2.4
Y	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	-----	X	-----	ACI 318: 17.8.2
Y	5. VERIFYING USE OF REQUIRED DESIGN MIX.	-----	X	1904.1, 1904.2, 1908.2, 1408.3	ACI 318: CH. 19, 26.4.3, 26.4.4
Y	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE FOR STRENGTH TESTS, PERFORM SLUMP AND AIR ENTRAINED TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-----	1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12
Y	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-----	1908.6, 1908.7, 1908.8	ACI 318: 26.5
Y	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-----	X	1908.9	ACI 318: 26.5.3-26.5.5
N	9. INSPECTION OF PRESTRESSED CONCRETE:				
-	a. APPLICATION OF PRESTRESSING FORCES.	X	-----	-----	ACI 318: 26.10
-	b. GROUTING OF BONDED PRESTRESSING TENDONS	X	-----	-----	
N	10. ERECTION OF PRECAST (TILT UP PANELS) CONCRETE MEMBERS.	-----	X	-----	ACI 318: CH. 26.9
N	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-----	X	-----	ACI 318: 26.11.2
Y	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-----	X	-----	ACI 318: 26.11.1.2(b)

C. WOOD CONSTRUCTION - SECTION 1705.5

SPECIAL INSPECTION AND VERIFICATION OF WOOD CONSTRUCTION				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
N	1. HIGH-LOAD DIAPHRAGMS	-----	X	1705.5.1
N	2. METAL-PLATE CONNECTED WOOD TRUSSES SPANNING > 60 FEET	-----	X	1705.5.2

D. WIND RESISTANCE - SECTION 1705.11

SPECIAL INSPECTION OF WIND FORCE RESISTING SYSTEMS				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
N	1. NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE MAINFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS WHERE FASTENER SPACING FOR SHEATHING IS 4" ON-CENTER OR LESS.	-----	X	1705.11.1
N	2. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	X	-----	1705.11.1
N	3. COLD-FORMED STEEL WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	-----	X	1705.11.2
N	4. COLD-FORMED STEEL SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAINFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, DIAPHRAGMS, COLLECTORS (DRAG STRUTS), AND HOLD-DOWNS WHERE NON-GYPSUM BOARD/FIBERBOARD SHEATHING FASTENER SPACING IS 4" ON-CENTER OR LESS.	-----	X	1705.11.2
N	5. ROOF CLADDING	-----	X	1705.11.3
N	6. WALL CLADDING	-----	X	1705.11.3

E. STEEL CONSTRUCTION (STRUCTURAL STEEL) - SECTION 1705.2.1

SPECIAL INSPECTION AND VERIFICATION OF STRUCTURAL STEEL CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
PRIOR TO WELDING					
Y	1. QUALIFIED WELDER	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	2. VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES	X	----	1705.2.1	N5.4-1, AISC 360-16
Y	3. MATERIAL IDENTIFICATION	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	4. WELDER IDENTIFICATION	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	5. FIT-UP GROOVE WELDS	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	6. FIT-UP OF CJP GROOVE WELDS	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	7. ACCESS HOLES	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	8. FIT-UP OF FILLET WELDS	----	X	1705.2.1	N5.4-1, AISC 360-16
DURING WELDING					
Y	1. CONTROL AND HANDLING OF WELDING CONSUMABLES	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	2. CRACKED TACK WELDS	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	3. ENVIRONMENTAL CONITIONS	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	4. WPS FOLLOWED	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	5. WELDING TECHNIQUES	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	6. STEEL HEADED ANCHORS	X	----	1705.2.1	N5.4-2, AISC 360-16
AFTER WELDING					
Y	1. WELD IS CLEANED	----	X	1705.2.1	N5.4-3, AISC 360-16
Y	2. SIZE, LENGTH AND LOCATION OF WELDS	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	4. ARC STRIKES	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	5. K-AREA	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	6. WELD ACCESS HOLES	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	7. BACKING AND WELD TABS REMOVED	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	8. REPAIR ACTIVITIES	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/NUMBER	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	10. NO PROHIBITED WELDS	----	X	1705.2.1	N5.4-3, AISC 360-16
NON-DESTRUCTIVE TESTING					
N	1. CJP WELDS (RISK CAT. II)	----	X	1705.2.1	N5.5, AISC 360-16
N	2. CJP WELDS (RISK CAT. III OR IV)	X	----	1705.2.1	N5.5, AISC 360-16
N	3. WELDED JOINTS SUBJECT TO FATIGUE	X	----	1705.2.1	N5.5, AISC 360-16

E. STEEL CONSTRUCTION (STRUCTURAL STEEL) - SECTION 1705.2.1 (CONTINUED)

SPECIAL INSPECTION AND VERIFICATION OF STRUCTURAL STEEL CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
PRIOR TO BOLTING					
Y	1. CERTIFICATIONS OF FASTENERS	X	----	1705.2.1	N5.6-1, AISC 360-16
Y	2. FASTENERS MARKED	----	X	1705.2.1	N5.6-1, AISC 360-16
Y	3. PROPER FASTENERS FOR JOINT	----	X	1705.2.1	N5.6-1, AISC 360-16
Y	4. PROPER BOLTING PROCEDURE	----	X	1705.2.1	N5.6-1, AISC 360-16
Y	5. CONNECTING ELEMENTS	----	X	1705.2.1	N5.6-1, AISC 360-16
Y	6. PRE-INSTALLED VERIFICATION TESTING	----	X	1705.2.1	N5.6-1, AISC 360-16
Y	7. PROPER STORAGE	----	X	1705.2.1	N5.6-1, AISC 360-16
DURING BOLTING					
Y	1. FASTENER ASSEMBLIES	----	X	1705.2.1	N5.6-2, AISC 360-16
N	2. SNUG TIGHT PRIOR TO PRE-TENSIONING	----	X	1705.2.1	N5.6-2, AISC 360-16
Y	3. FASTENER COMPONENT	----	X	1705.2.1	N5.6-2, AISC 360-16
N	3. PRE-TENSIONED FASTENERS	----	X	1705.2.1	N5.6-2, AISC 360-16
AFTER BOLTING					
Y	1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	----	1705.2.1	N5.6-3, AISC 360-16
OTHER STEEL INSPECTIONS					
Y	1. STRUCTURAL STEEL DETAILS	----	X	1705.2.1	N5.8, AISC 360-16
Y	2. ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL	----	X	1705.2.1	N5.8, AISC 360-16

F. COLD-FORMED STEEL DECK - SECTION 1705.2.2

SPECIAL INSPECTION AND VERIFICATION OF OTHER STEEL CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
PRIOR TO DECK PLACEMENT					
Y	1. VERIFY MATERIAL COMPLIANCE	X	----	1705.2.1	N5.4-1, AISC 360-16
Y	2. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	X	----	1705.2.1	N5.4-1, AISC 360-16
AFTER TO DECK PLACEMENT					
Y	1. VERIFY COMPLIANCE OF INSTALLATION AND DECK MATERIALS	X	----	1705.2.1	N5.4-1, AISC 360-16
Y	2. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	X	----	1705.2.1	N5.4-1, AISC 360-16
PRIOR TO WELDING					
Y	1. VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	2. MATERIAL IDENTIFICATION	----	X	1705.2.1	N5.4-1, AISC 360-16
DURING WELDING					
Y	1. QUALIFIED WELDER	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	2. CONTROL AND HANDLING OF WELDING CONSUMABLES	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	3. ENVIRONMENTAL CONITIONS	----	X	1705.2.1	N5.4-2, AISC 360-16
Y	4. WPS FOLLOWED	----	X	1705.2.1	N5.4-2, AISC 360-16
AFTER WELDING					
Y	1. SIZE, LENGTH AND LOCATION OF WELDS	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	8. REPAIR ACTIVITIES	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/NUMBER	X	----	1705.2.1	N5.4-3, AISC 360-16

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
04/20/21

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

STRUCTURAL SPECIAL INSPECTIONS

SHEET NUMBER

S0.1

STRUCTURAL SPECIAL INSPECTIONS

F. COLD-FORMED STEEL DECK - SECTION 1705.2.2 (CONTINUED)

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
SPECIAL INSPECTION AND VERIFICATION OF COLD-FORMED STEEL DECK					
PRIOR TO MECHANICAL FASTENING					
Y	1. VERIFY INSTRUCTIONS AVAILABLE	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	2. PROPER TOOLS AVAILABLE	----	X	1705.2.1	N5.4-1, AISC 360-16
Y	3 PROPER STORAGE.	----	X	1705.2.1	N5.4-1, AISC 360-16
DURING MECHANICAL FASTENING					
Y	1. FASTENERS ARE POSITIONED AND INSTALLED ACCORDING TO MANUF. INSTRUCTIONS	X	----	1705.2.1	N5.4-1, AISC 360-16
AFTER MECHANICAL FASTENING					
Y	1. SPACING, TYPE AND INSTALLATION OF SUPPORT, SIDELAP AND PERIMETER FASTENERS	X	----	1705.2.1	N5.4-1, AISC 360-16
Y	8. REPAIR ACTIVITIES	X	----	1705.2.1	N5.4-3, AISC 360-16
Y	9. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	X	----	1705.2.1	N5.4-3, AISC 360-16

G. OPEN-WEB STEEL JOISTS AND GIRDERS - TABLE 1705.2.3

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB JOISTS AND JOIST GIRDERS					
	1. INSTALLATION OF OPEN-WEB JOISTS AND JOIST GIDERS				
Y	a. END CONNECTIONS - WELDING OR BOLTED	----	X	1705.2.3	SJI SPECIFICATIONS, SECTION 2207.1
Y	b. BRIDGING - HORIZONTAL OR DIAGONAL	----	---	1705.2.3	----
Y	1. STANDARD BRIDGING	----	X	1705.2.3	SJI SPECIFICATIONS, SECTION 2207.1
Y	2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFCATIONS LISTED IN SECTION 2207.1	----	X	1705.2.3	----

H. COLD-FORMED STEEL TRUSSES SPANNING > 60 FEET - SECTION 1705.2.4

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
REQUIRED SPECIAL INSPECTIONS OF COLD-FORMED STEEL TRUSSES SPANNING > 60 FEET					
Y	1. TRUSSES SPANNING > 60 FEET	----	X	1705.2.4	----

I. MASONRY - SECTION 1705.4 (THIS TABLE 3.1.2 - LEVEL B QUALITY ASSURANCE)

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
MINIMUM TESTS						
	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5B.1.b.3 FOR SELF-CONSOLODATING GROUT					
	VERIFICATION OF f'_M AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE					
MINIMUM INSPECTION						
Y	1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	----	X	1705.4		ART. 1.5
	2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
Y	a. PROPORTIONS OF SITE-PREPARED MORTAR	----	X	1705.4		ART. 2.1, 2.6A
Y	b. CONSTRUCTION OF MORTAR JOINTS	----	X			ART. 3.3B
N	c. GRADE AND SIZE OF PRE-STRESSING TENDONS AND ANCHORAGES	----	X	1705.4		ART 2.4B, 2.4H
Y	d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORAGES	----	X	1705.4		ART. 3.4, 3.6A
N	e. PRE-STRESSING TECHNIQUE	----	X	1705.4		ART. 3.6B
N	f. PROPERTIES OF THIN-BED MORTAR FOR ACC MASONRY	----	X	1705.4		ART. 2.1C
	3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
Y	a. GROUT SPACE	----	X			ART. 3.2D, 3.2F
Y	b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRE-STRESSING TENDONS AND ANCHORAGES	----	X	1705.4	SEC. 6.1	ART. 2.4, 3.4
Y	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORAGES	----	X	1705.4	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A
Y	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS	----	X	1705.4		ART. 2.6B, 2.4G.1.b
Y	e. CONSTRUCTION OF MORTAR JOINTS	----	X	1705.4		ART. 3.3B
	4. VERIFY DURING CONSTRUCTION:					
Y	a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	----	X	1705.4		ART. 3.3F
Y	b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	----	X	1705.4	SEC. 1.2.1(e), 6.1.4.3, 6.2.1	
N	c. WELDING OF REINFORCEMENT	X	----		SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
Y	d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F(4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F(32.2°C))	----	X	1705.4		ART. 1.8C, 1.8D
N	e. APPLICATION AND MEASUREMENT OF PRE-STRESSSING FORCE	X	----	1705.4		ART. 3.6B
N	f. PLACEMENT OF GROUT AND PRE-STREEING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	----	1705.4		ART. 3.5, 3.6C
N	g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	----	X	1705.4		ART. 3.3B.9, 3.3F.1.b
Y	5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	----	X	1705.4		ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID BALMA
NUMBER
PE-2015003007
PROFESSIONAL ENGINEER
04/20/21

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

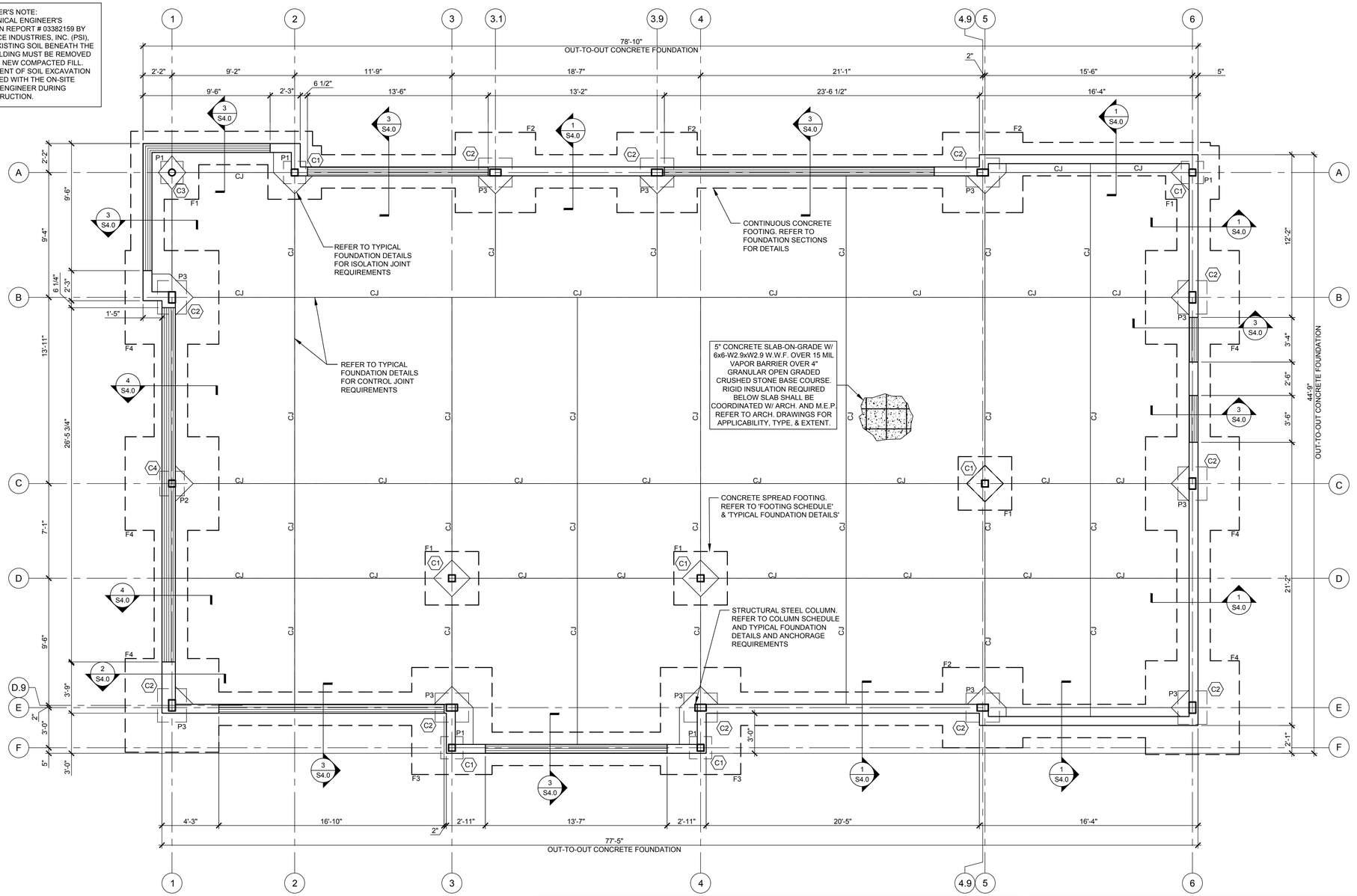
SHEET TITLE

STRUCTURAL SPECIAL INSPECTIONS II

SHEET NUMBER

S0.2

ENGINEER'S NOTE:
PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IN REPORT # 03382159 BY PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI), 2FT OR MORE OF THE EXISTING SOIL BENEATH THE FOOTPRINT OF THE BUILDING MUST BE REMOVED AND REPLACED WITH NEW COMPACTED FILL. EXACT DEPTH AND EXTENT OF SOIL EXCAVATION TO BE COORDINATED WITH THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.



FOUNDATION PLAN NOTES:

1. ALL ELEVATIONS BASED ON TOP OF SLAB-ON-GRADE ELEVATION = (0'-0").
2. EXTERIOR FOOTINGS SHALL EXTEND A MINIMUM OF 36" BELOW FINAL ADJACENT GRADE FOR FROST PROTECTION.
3. TOP OF FOOTING ELEVATION = (-2'-8") BELOW TOP OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. ELEVATIONS WILL VARY AT STEPPED FOOTINGS.
4. TOP OF PIER ELEVATION = (-0'-8") BELOW TOP OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE.
5. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE MEASURES BENEATH FOOTINGS AND FIRST FLOOR SLAB-ON-GRADE.
6. REFER TO SHEET SERIES S4 FOR FOUNDATION SECTIONS AND TYPICAL DETAILS.
7. REFER TO SHEET S0.0 FOR GENERAL NOTES.
8. REFER TO THIS SHEET FOR COLUMN AND FOOTING SCHEDULE.
9. REFER TO PLUMBING DRAWINGS AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL FLOOR DRAINS & SLAB PENETRATIONS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
11. COORDINATE DOOR LOCATIONS WITH ARCHITECTURAL DRAWINGS.
12. COORDINATE LOCATIONS OF PLUMBING LINES WITH PLUMBER PRIOR TO POURING FOOTINGS AND SLAB-ON-GRADE.
13. REFERENCE CIVIL DRAWINGS FOR ALL EXTERIOR SIDEWALKS, RAMPS & STOOPS.
14. ALL FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED OTHERWISE ON PLAN.
15. CONTRACTOR TO COORDINATE WITH CIVIL/SITE DRAWINGS WHERE CONCRETE SIDEWALK ABUTS BUILDING FOUNDATION.

LEGEND:

– – –	DENOTES OUTLINE OF CONCRETE FOOTING EDGE BELOW SLAB AND FINISHED GRADE.
CJ	DENOTES SLAB CONTROL JOINT. REFER TO TYPICAL FOUNDATION DETAILS SHEET FOR ADDITIONAL INFORMATION.
F_	DENOTES CONCRETE FOOTING TYPE. REFER TO 'FOOTING SCHEDULE' THIS SHEET FOR SIZE REQUIREMENTS AND ADDITIONAL INFORMATION.
C_	DENOTES COLUMN TYPE. REFER TO 'COLUMN SCHEDULE' THIS SHEET FOR SIZE REQUIREMENTS AND ADDITIONAL INFORMATION.
	DENOTES THRESHOLD AT FOUNDATION. REFER TO FOUNDATION SECTIONS FOR DETAILS.

COLUMN SCHEDULE

COLUMN MARK	COLUMN SIZE	BASE PLATE SIZE t x B x D	BASE PLATE TYPE	ANCHOR RODS	BTM. OF BASE PL. EL.	REMARKS / TYPE
C1	HSS6x6x1/4	SEE SCHEDULE	A	SEE SCHEDULE	T.O. PIER/FTG. + GROUT	GRAVITY COLUMN
C2	HSS10x6x3/8	SEE SCHEDULE	B	SEE SCHEDULE	T.O. PIER/FTG. + GROUT	MOMENT COLUMN
C3	HSS6x1/4	SEE SCHEDULE	A	SEE SCHEDULE	T.O. PIER/FTG. + GROUT	GRAVITY COLUMN
C4	HSS6x6x1/4	SEE SCHEDULE	C	SEE SCHEDULE	T.O. PIER/FTG. + GROUT	MOMENT COLUMN

NOTE: REFER TO TYPICAL FOUNDATION DETAILS FOR ANCHOR ROD AND BASE PLATE REQUIREMENTS.

FOOTING SCHEDULE

FOOTING MARK	SIZE			REINFORCEMENT		REMARKS / TYPE
	W (WIDTH)	L (LENGTH)	D (DEPTH)	REINF. BARS (LONG DIRECTION)	REINF. BARS (SHORT DIRECTION)	
F1	4'-0"	4'-0"	1'-0"	(5)-#5 BOTT.	(5)-#5 BOTT.	REFER TO TYPICAL FOUNDATION DETAILS
F2	6'-0"	6'-0"	1'-4"	(7)-#6 T&B	(7)-#6 T&B	REFER TO TYPICAL FOUNDATION DETAILS
F3	6'-0"	8'-0"	1'-4"	(7)-#6 T&B	(9)-#6 T&B	REFER TO TYPICAL FOUNDATION DETAILS
F4	7'-6"	7'-6"	1'-4"	(9)-#6 T&B	(9)-#6 T&B	REFER TO TYPICAL FOUNDATION DETAILS

NOTE: REFER TO TYPICAL FOUNDATION DETAILS FOR FOOTING AND ANCHOR ROD REQUIREMENTS.

PIER SCHEDULE

PIER MARK	SIZE		REINFORCEMENT		REINFORCING CONFIGURATION	REMARKS
	W (WIDTH)	L (LENGTH)	VERTICAL BARS	TIES		
P1	20"	20"	(4)-#6	(1)-#4 CLOSED @12" O.C.		REFER TO TYPICAL FOUNDATION DETAILS
P2	30"	26"	(8)-#8	(2)-#4 CLOSED @12" O.C.		REFER TO TYPICAL FOUNDATION DETAILS
P3	22"	22"	(8)-#8	(2)-#4 CLOSED @12" O.C.		REFER TO TYPICAL FOUNDATION DETAILS

NOTE: ALL PIER TIES SHALL POSSESS 135° HOOKS AT CLOSURE. REFER TO TYPICAL FOUNDATION DETAILS FOR ADDITIONAL INFORMATION.

FOUNDATION PLAN | SCALE 1/4"=1'-0" | 1

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THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

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-	2020.12.21	PERMIT SET
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PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
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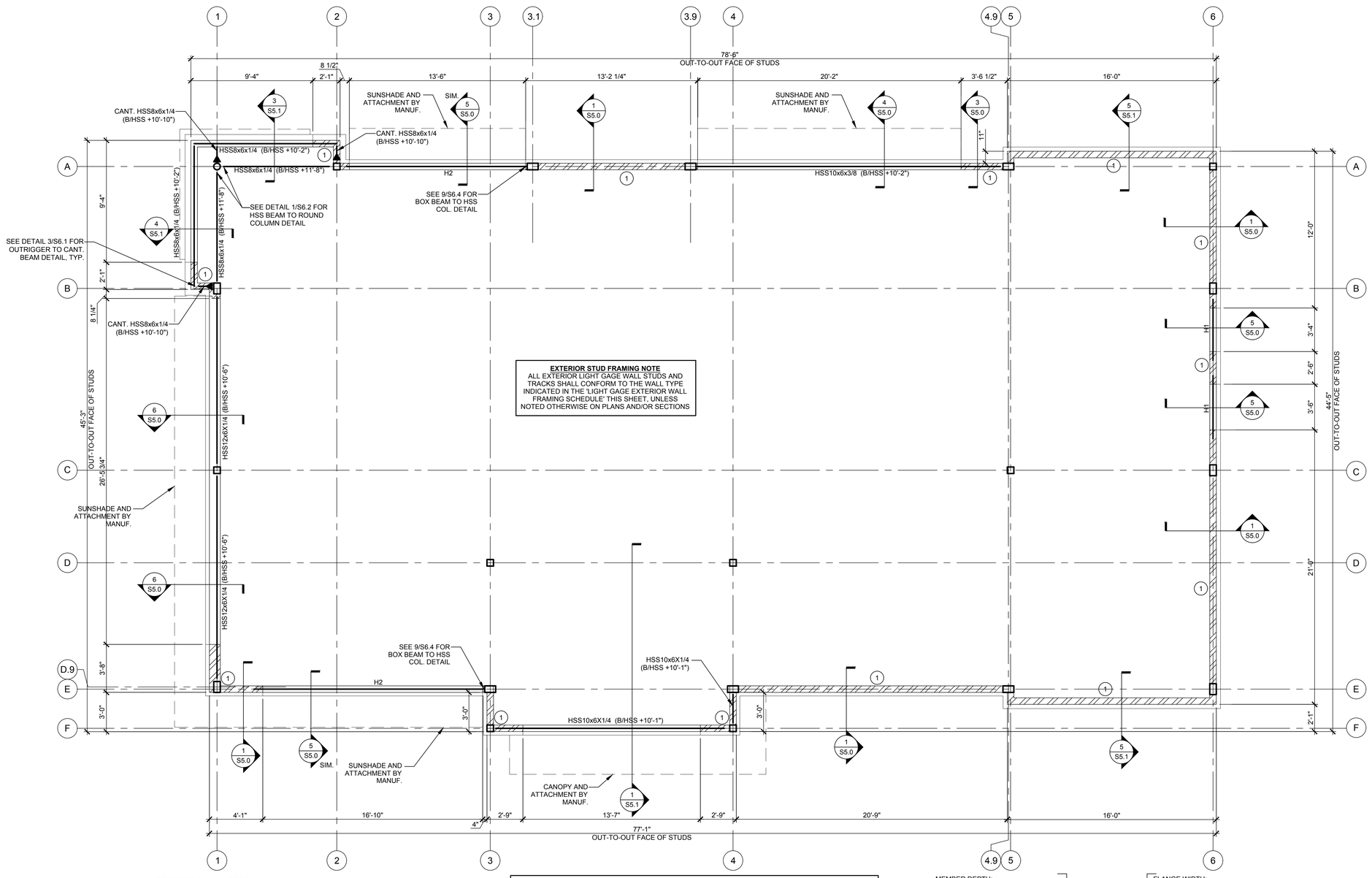
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S1.0



EXTERIOR STUD FRAMING NOTE
ALL EXTERIOR LIGHT GAGE WALL STUDS AND TRACKS SHALL CONFORM TO THE WALL TYPE INDICATED IN THE 'LIGHT GAGE EXTERIOR WALL FRAMING SCHEDULE' THIS SHEET, UNLESS NOTED OTHERWISE ON PLANS AND/OR SECTIONS

FRAMING PLAN NOTES

1. ALL ELEVATIONS BASED ON TOP OF SLAB-ON-GRADE ELEVATION = (0'-0").
2. ALL CONNECTIONS OF COLD FORMED METAL FRAMING TO CONCRETE OR STRUCTURAL STEEL SHALL UTILIZE HILTI "X-U" UNIVERSAL POWDER DRIVEN FASTENERS, OR APPROVED EQUAL. SHANK DIAMETER SHALL EQUAL 0.157" AND THE MINIMUM EMBEDMENT INTO CONCRETE SHALL BE 1 1/4" (TYP.). PRODUCT ICC-ES REPORT #: ESR-2269.
3. ALL CONNECTIONS OF COLD FORMED METAL FRAMING TO COLD FORMED METAL FRAMING SHALL UTILIZE HILTI SELF-DRILLING SCREWS, OR APPROVED EQUAL. PRODUCT ICC-ES REPORT #: ESR-2196.
4. "SCREWS" - INDICATES HILTI SELF-DRILLING SCREWS. OR APPROVED EQUAL.
5. REFER TO SHEET S0.0 FOR GENERAL NOTES REGARDING COLD FORMED METAL FRAMING AND SHEATHING ATTACHMENT.
6. REFER TO SHEET SERIES S6 FOR TYPICAL COLD FORMED METAL FRAMING DETAILS.

LEGEND:

- DENOTES LIGHT GAGE METAL STUD WALL. REFER TO "LIGHT GAGE EXTERIOR WALL FRAMING SCHEDULE" FOR STUD SIZE, SPACING AND ADDITIONAL INFORMATION.
- DENOTES MOMENT FRAME CONNECTION. REFER TO TYPICAL STEEL BEAM CONNECTION SCHEDULE FOR DETAILS.
- DENOTES EXTERIOR WALL VENEER. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DENOTES 8" CMU BLOCK WALLS W/ #5 VERT. REINF. GROUTED FULL HEIGHT @ 32" O.C. PROVIDE (2) #6 BARS (1 IN EACH CELL) AT WALL ENDS, AND CORNERS.

LIGHT GAGE EXTERIOR WALL FRAMING SCHEDULE

ITEM TAG	FRAMING MEMBER	PART IDENTIFICATION CODE	NOTES:
	6" STUD WALL		
1	TYP. STUD SIZE AND SPACING	600S162-54 @16" O.C.	REFER TO TYPICAL LIGHT GAGE DETAILS
	TOP & BOTTOM TRACKS	600T125-43	REFER TO TYPICAL LIGHT GAGE DETAILS
	6" STUD WALL OPENING FRAMING		
H1	JAMB STUD ASSEMBLY	3-PIECE ASSEMBLY: STUD SIZE - (2)-600S162-54 TRACK SIZE - 600T125-43	REFER TO TYPICAL LIGHT GAGE DETAILS
	BOX HEADER ASSEMBLY	STUD SIZE - (2)-800S162-54 TRACK SIZE - 600T125-43 T&B	REFER TO TYPICAL LIGHT GAGE DETAILS
	SILL	STUD SIZE - (1)-600S162-54 TRACK SIZE - (2)-600T125-43	REFER TO TYPICAL LIGHT GAGE DETAILS
H2	JAMB STUD ASSEMBLY	3-PIECE ASSEMBLY: STUD SIZE - (2)-600S162-54 TRACK SIZE - 600T125-43	REFER TO TYPICAL LIGHT GAGE DETAILS
	BOX HEADER ASSEMBLY	STUD SIZE - (2)-1600S162-68 TRACK SIZE - 600T125-43 T&B	REFER TO TYPICAL LIGHT GAGE DETAILS

NOTE: MEMBER TYPES AND SIZES TO BE CONSIDERED TYPICAL UNLESS NOTED OTHERWISE ON PLAN AND/OR SECTIONS.

LIGHT GAGE METAL FRAMING PRODUCT IDENTIFICATION

ACCORDING TO STEEL STUD MANUFACTURERS ASSOCIATION FOUR PART IDENTIFICATION CODE SYSTEM

600 S 162 - 54

- 600 — MEMBER DEPTH: (EXAMPLE: 6" = 600 x 1/1000 INCHES) ALL MEMBER DEPTHS ARE TAKEN AS 1/1000 INCHES.
- S — STYLE: (EXAMPLE: STUD OR JOIST SECTION = S)
  - S = STUD OR JOIST SECTIONS
  - T = TRACK SECTIONS
  - U = CHANNEL SECTIONS
  - F = FURRING CHANNEL SECTIONS
- 162 — FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.62 X 1/1000 INCHES) ALL FLANGE WIDTHS ARE TAKEN AS 1/1000 INCHES.
- 54 — MATERIAL THICKNESS: (EXAMPLE 0.054" = 54 MILS & 1 MIL = 1/1000 INCHES)
  - 43 = 18 GAGE
  - 54 = 16 GAGE
  - 68 = 14 GAGE
  - 97 = 12 GAGE

COLD-FORMED METAL FRAMING NOTE
ALL COLD FORMED METAL FRAMING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT PER APPLICABLE BUILDING CODE REQUIREMENTS. SUBMIT STAMPED AND SIGNED CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

WALL AND LOW FRAMING PLAN | SCALE 1/4"=1'-0" | 1

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
04/20/21

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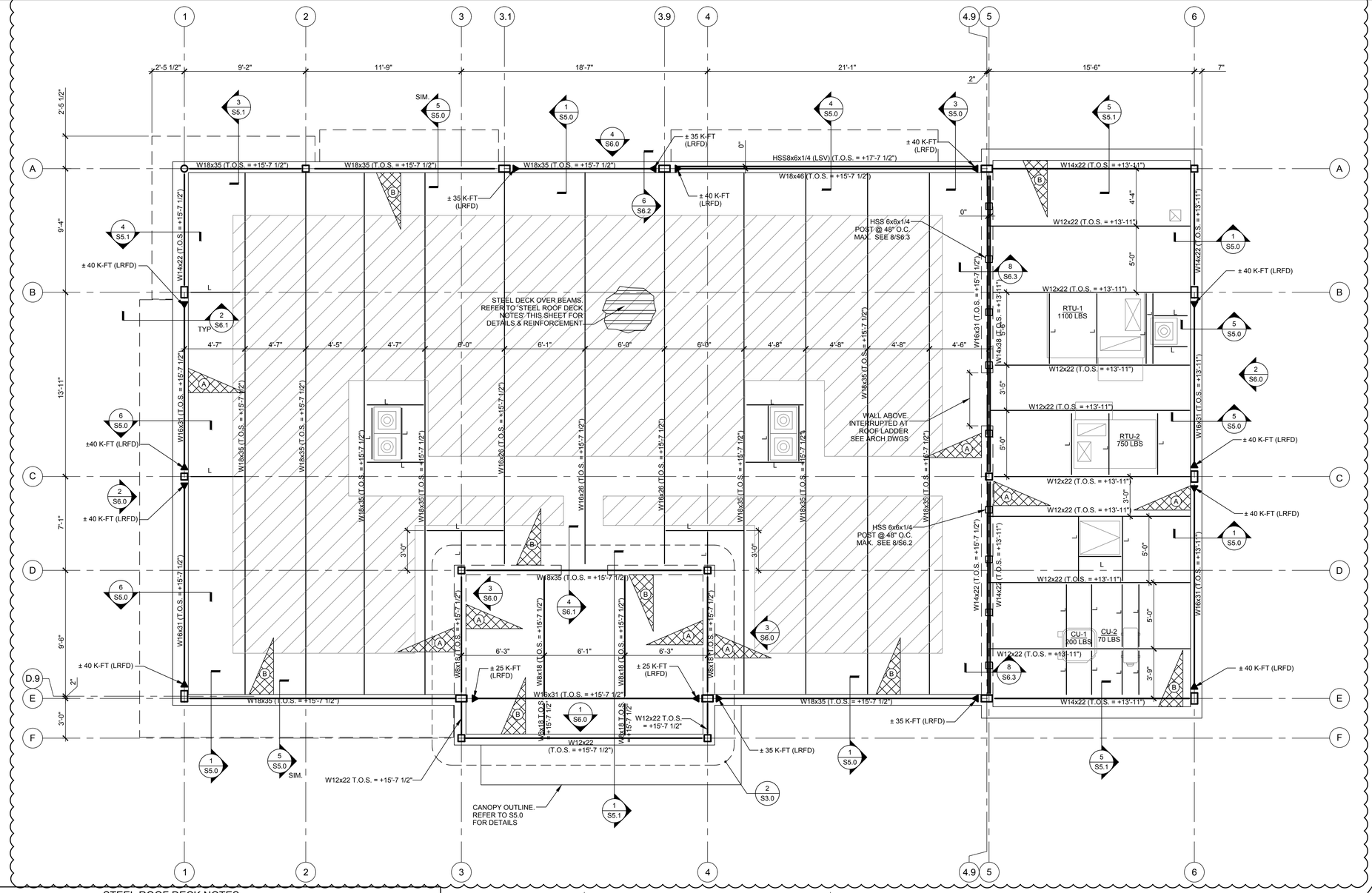
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

WALL AND LOW FRAMING PLAN

SHEET NUMBER

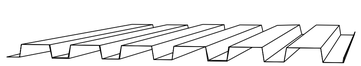
S2.0



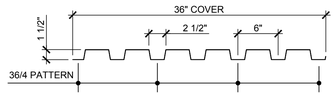
STEEL ROOF DECK NOTES

1. METAL DECK SHALL BE 1-1/2" INCH DEEP G-90 GALVANIZED STEEL, DESIGN THICKNESS 0.0295" (22 GAGE), TYPE 'B' BY VULCRAFT CORPORATION (OR APPROVED EQUIVALENT).
2. STEEL DECK FASTENING REQUIREMENTS FOR DIAPHRAGM:
   A. PERIMETER AND INTERMEDIATE SUPPORT ATTACHMENT: 5/8"Ø PUDDLE WELD, 4 PER SHEET (36/4 PATTERN).
   B. DECK SIDELAP FASTENING: (2) - #10 SELF-DRILLING SCREWS.
3. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS (4 SUPPORTS).
4. ALL SHEET STEEL USED FOR DECK SHALL POSSESS A MINIMUM YIELD STRESS (Fy) THAT MEETS OR EXCEEDS 33 KSI.
5. STEEL DECK SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A1008 / A1008M AND AISI 2100, SECTION A2.
6. GALVANIZING SHALL CONFORM TO ASTM A653 / A653M.
7. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

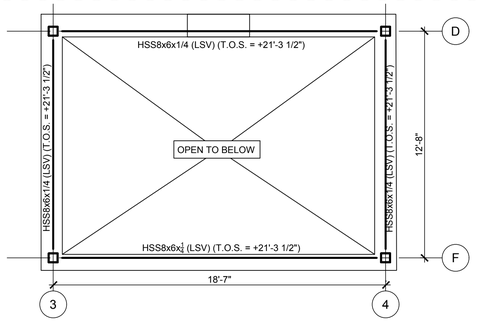
SECTION PROPERTIES (Fy=33 KSI)					
GAUGE	DESIGN THICKNESS	WEIGHT (psf)	I (in4/ft)	Sp (in3/ft)	Sn (in3/ft)
22	0.0295	1.78	0.169	0.186	0.192



ISOMETRIC VIEW
NOT TO SCALE



FRONT VIEW
NOT TO SCALE



FRAMING PLAN NOTES:

1. ALL ELEVATIONS BASED ON TOP OF SLAB-ON-GRADE ELEVATION = (0'-0").
2. REFER TO SHEET S0.0 FOR GENERAL NOTES
3. TOP OF STEEL BEAM ELEVATIONS NOTED ON PLAN.
5. REFER TO SHEET SERIES S6 FOR FRAME ELEVATIONS AND STEEL CONNECTION DETAILS.

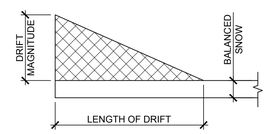
LEGEND:

DENOTES MOMENT FRAME CONNECTION. REFER TO TYPICAL STEEL BEAM CONNECTION SCHEDULE FOR DETAILS. ALL MOMENT CONNECTIONS SHALL BE DESIGNED TO A STRENGTH-LEVEL (LRFD) LOAD OF ±25 K-FT, UNLESS NOTED OTHERWISE ON FRAMING PLANS. MOMENTS INDICATED ON PLAN ARE PER STRENGTH-LEVEL (LRFD) LOAD CONDITIONS.

L — DENOTES ANGLE FRAMING BELOW ROOF TOP EQUIPMENT. REFER TO TYPICAL STEEL DETAILS FOR FRAMING REQUIREMENTS.

DESIGNED FOR ADDITIONAL 10 PSF FUTURE DEAD LOAD

	SNOW DRIFT INFORMATION: 20 PSF GROUND SNOW LOAD	
SNOW DRIFT	DRIFT MAGNITUDE	LENGTH OF DRIFT
A	35.1 PSF TO 0 PSF	8'-6"
B	26.2 PSF TO 0 PSF	6'-4"



SNOW DRIFT DIAGRAM

ROOF FRAMING PLAN | SCALE 1/4"=1'-0" | 1

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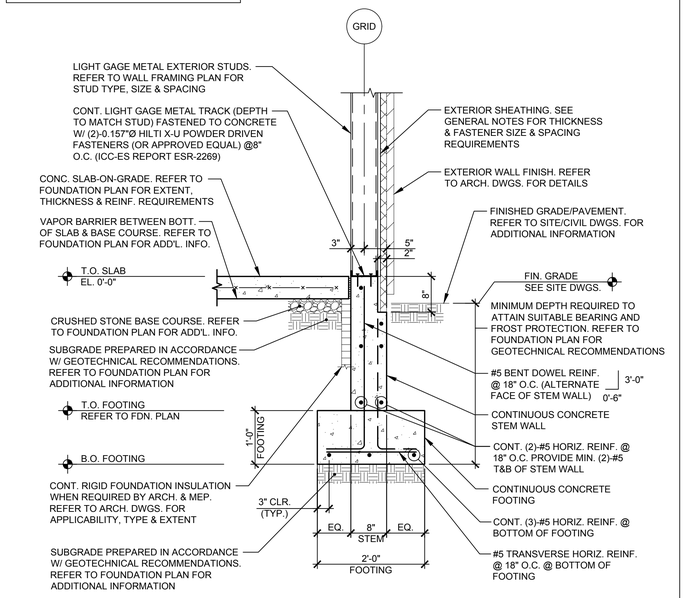
SHEET TITLE

ROOF FRAMING PLAN

SHEET NUMBER

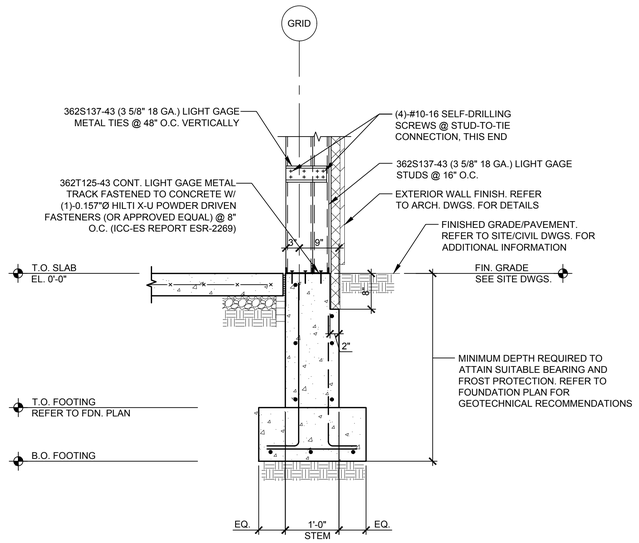
S3.0

TYPICAL SECTION NOTES:
1. REFER TO "FOUNDATION PLAN" FOR INFORMATION NOT PROVIDED IN SECTION.
2. REFER TO SHEET SERIES S6 FOR TYPICAL LIGHT GAGE FRAMING REQUIREMENTS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR INSULATION AND EXTERIOR FINISH REQUIREMENTS.



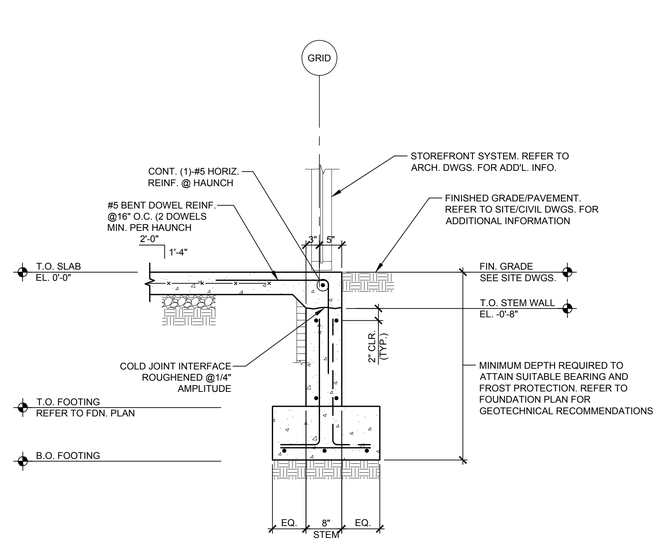
TYPICAL FOUNDATION SECTION | SCALE 3/4"=1'-0" | 1

REFER TO SECTION 1/S4.0 FOR ADDITIONAL INFORMATION



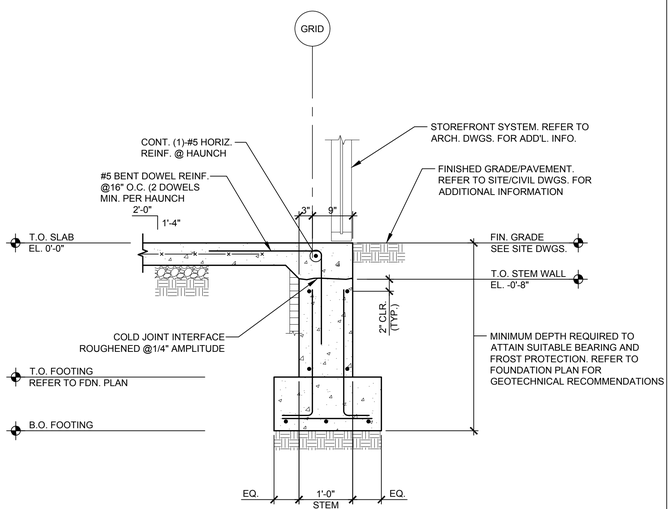
FOUNDATION SECTION AT DOUBLE WALL | SCALE 3/4"=1'-0" | 2

REFER TO SECTION 1/S4.0 FOR ADDITIONAL INFORMATION



FOUNDATION SECTION AT DOOR/WINDOW | SCALE 3/4"=1'-0" | 3

REFER TO SECTION 1/S4.0 FOR ADDITIONAL INFORMATION



FOUNDATION SECTION AT DOUBLE WALL WINDOW | SCALE 3/4"=1'-0" | 4

NOT USED | SCALE 3/4"=1'-0" | 5

NOT USED | SCALE 3/4"=1'-0" | 6

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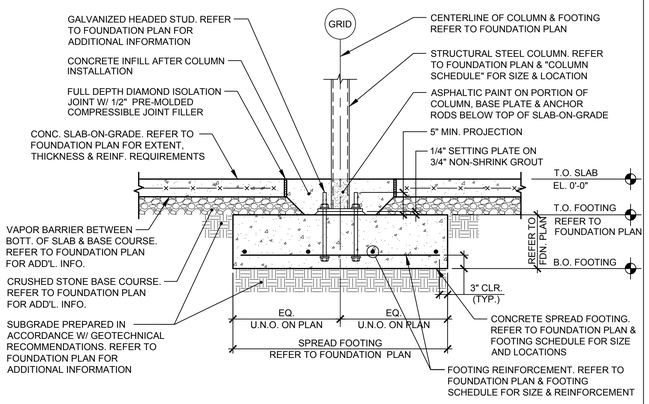
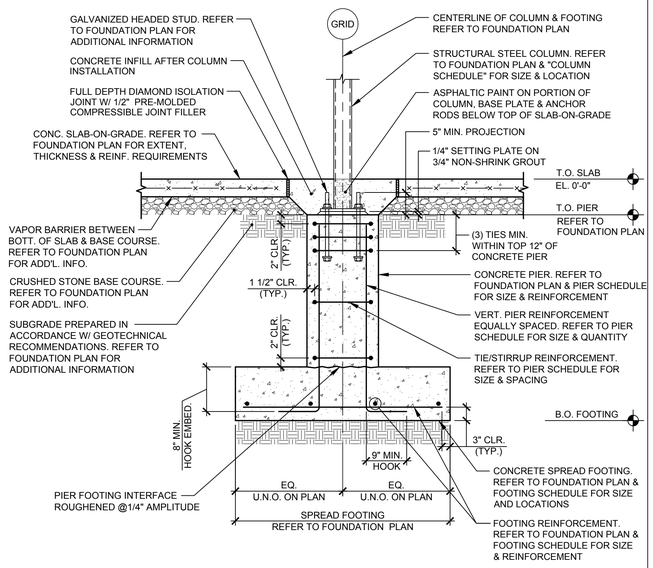
FOUNDATION SECTIONS

SHEET NUMBER

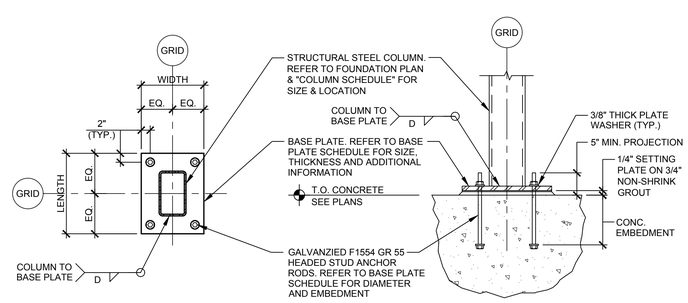
S4.0



INTERIOR COLUMN FOOTING DETAIL (NO PIER) | SCALE 3/4"=1'-0" | 1



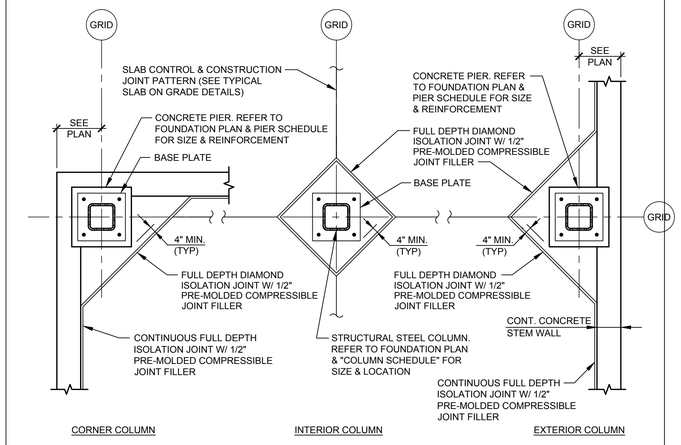
NOT USED | SCALE 3/4"=1'-0" | 2



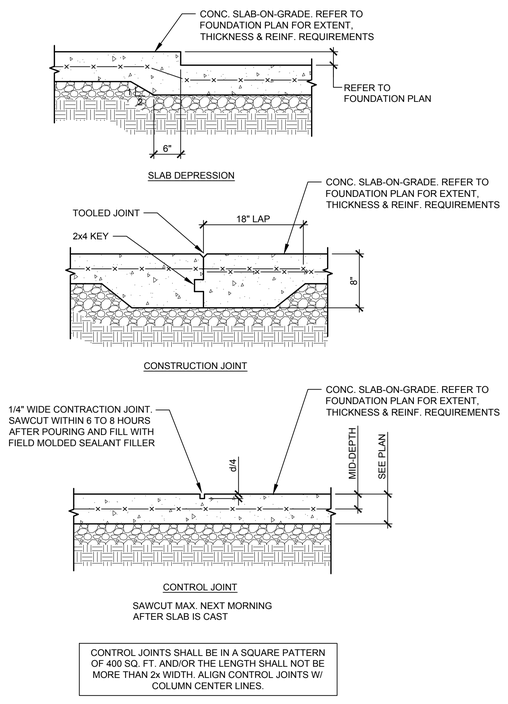
BASE PLATE SCHEDULE

BASE PLATE TYPE	COLUMN SIZE	LENGTH	WIDTH	THICKNESS	ANCHOR ROD DIAMETER	ANCHOR ROD EMBEDMENT	WELD SIZE, D
A	SEE PLAN	1'-2"	1'-2"	3/4"	(4) - 3/4"Ø	0'-9"	5/16
B	SEE PLAN	1'-6"	1'-2"	1"	(4) - 1 1/4"Ø	10" EMBED. INTO FOOTING + PIER + 5" PROJECTION	5/16
C	SEE PLAN	1'-2"	1'-2"	1"	(4) - 1"Ø	1'-10"	5/16

BASE PLATE AND ANCHOR ROD SCHEDULE | SCALE 3/4"=1'-0" | 3

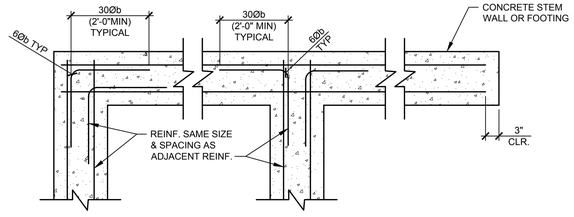


TYPICAL ISOLATION JOINT DETAILS | SCALE N.T.S. | 4

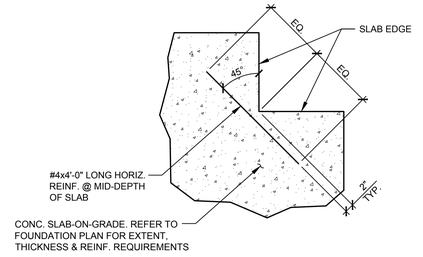


CONTROL JOINTS SHALL BE IN A SQUARE PATTERN OF 400 SQ. FT. AND/OR THE LENGTH SHALL NOT BE MORE THAN 2x WIDTH. ALIGN CONTROL JOINTS W/ COLUMN CENTER LINES.

TYPICAL SLAB-ON-GRADE DETAILS | SCALE N.T.S. | 5



TYPICAL REINFORCEMENT TRANSITION DETAIL | SCALE N.T.S. | 6



RE-ENTRANT CORNER DETAIL | SCALE N.T.S. | 7

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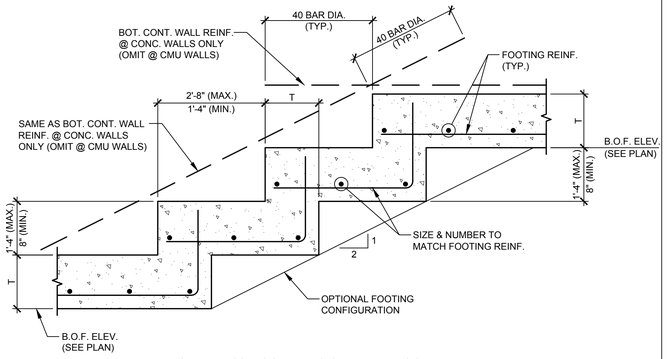
SHEET TITLE

TYPICAL FOUNDATION DETAILS

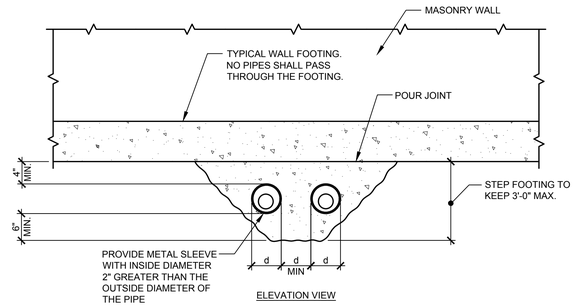
SHEET NUMBER

S4.1

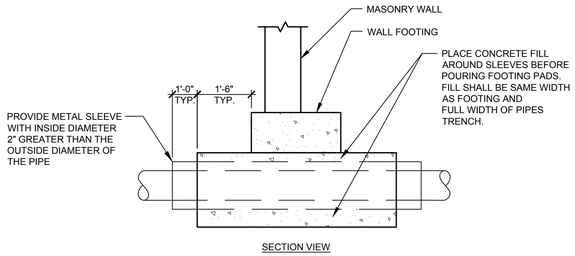


1. STEPPED FOOTING SHALL BE SLOPED AT A RATIO OF 2H : 1V.

TYPICAL STEPPED FOOTING DETAIL | SCALE 3/4"=1'-0" | 1

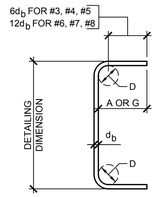


ELEVATION VIEW

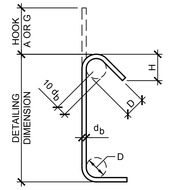


SECTION VIEW

WALL FOOTING DETAIL AT UTILITIES | SCALE 3/4"=1'-0" | 2



90° HOOK



135° HOOK

STIRRUPS AND TIE HOOKS, ALL GRADES				
BAR SIZE	D, IN.	90° HOOKS	135° HOOKS	
		A OR G	A OR G	H, APPROX.
#3	1 1/2	4"	5"	3 1/2"
#4	2	4 1/2"	6 1/2"	4 1/2"
#5	2 1/2	6"	8"	5 1/2"
#6	4 1/2	1'-0"	11"	6 1/2"
#7	5 1/4	1'-2"	1'-0 1/2"	7 3/4"
#8	6	1'-4"	1'-2 1/2"	9"

d_b = NOMINAL DIAMETER OF BAR OR WIRE (INCHES)

STIRRUP AND TIE HOOK TABLE | SCALE N.T.S. | 3

TENSION LAP SPLICES							COMPRESSION LAP SPLICES
BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE					
		CASE 1		CASE 2			
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		
#3	B	24	19	36	28		12
#4	B	32	25	48	37		15
#5	B	40	31	60	47		19
#6	B	48	37	72	56		23
#7	B	70	54	106	81		26
#8	B	80	62	121	93		30
#9	B	91	70	136	105		34
#10	B	102	79	153	118		38
#11	B	113	87	170	131		42

NOTES:
1. UTILIZE A FACTOR OF 1.5 WHERE CONTACT SPLICES ARE REQUIRED.
2. TABLE APPLIES TO CONCRETE WITH f'c = 4000 PSI OR GREATER.
3. CASE 1: COVER AT LEAST 1Øb AND CENTER-TO-CENTER SPACING AT LEAST 2Øb.
4. CASE 2: COVER LESS THAN 1Øb AND CENTER-TO-CENTER SPACING AT LESS THAN 2Øb.

LAP SPLICE TABLE | SCALE NONE | 4

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS THE GREATER.		
SLABS (LT.WT. CONC. OR STONE CONC.)		1"
SLABS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		3/4"
GIRDERS AND BEAMS (TO STIRRUPS)		1 1/2"
JOISTS (STONE OR LT.WT.) BOTTOM BARS		1 1/4"
TIED COLUMNS AND PIERS		
SURFACE EXPOSED TO EARTH AND WEATHER	(TO TIES)	2"
OTHER SURFACES	(TO TIES)	1 1/2"
FOUNDATION ELEMENTS		
FORMED SURFACES		2"
SURFACES PLACED AGAINST EARTH		3"
WALLS		
SURFACES EXPOSED TO EARTH		2"
SURFACES EXPOSED TO WEATHER		1 1/2"
OTHER SURFACES		1"

MINIMUM CONCRETE COVER TABLE | SCALE 3/4"=1'-0" | 5

NOT USED | SCALE N.T.S. | 6

CHASE
JP MORGAN CHASE, N.A.
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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
04/20/21

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

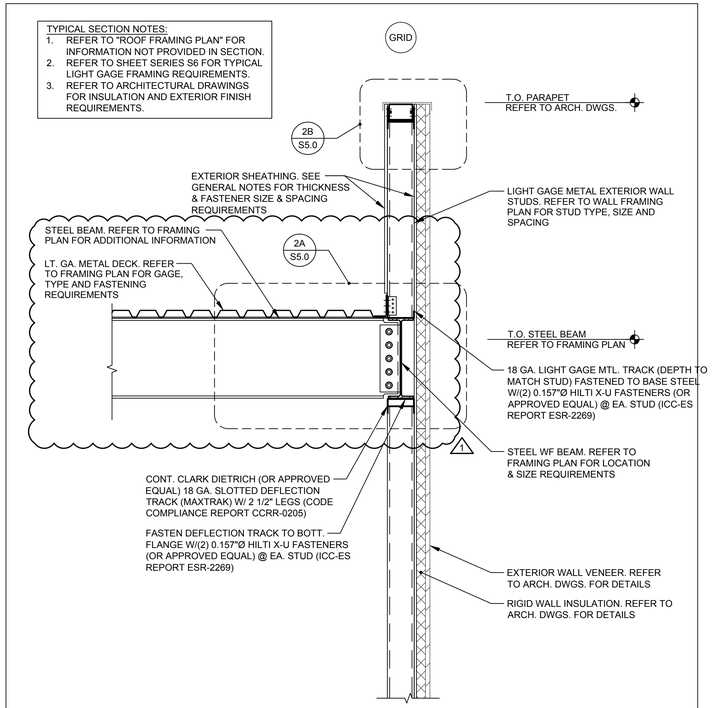
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

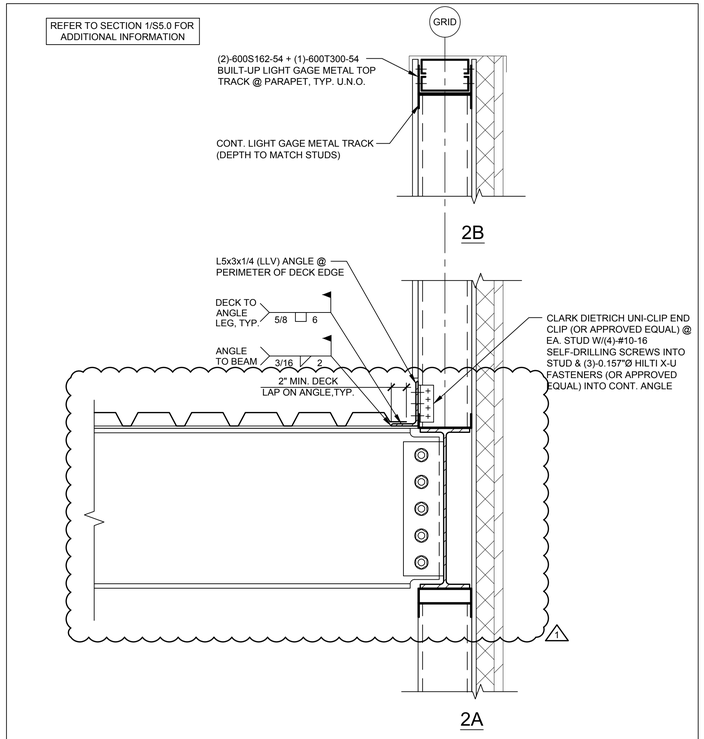
TYPICAL FOUNDATION DETAILS II

SHEET NUMBER

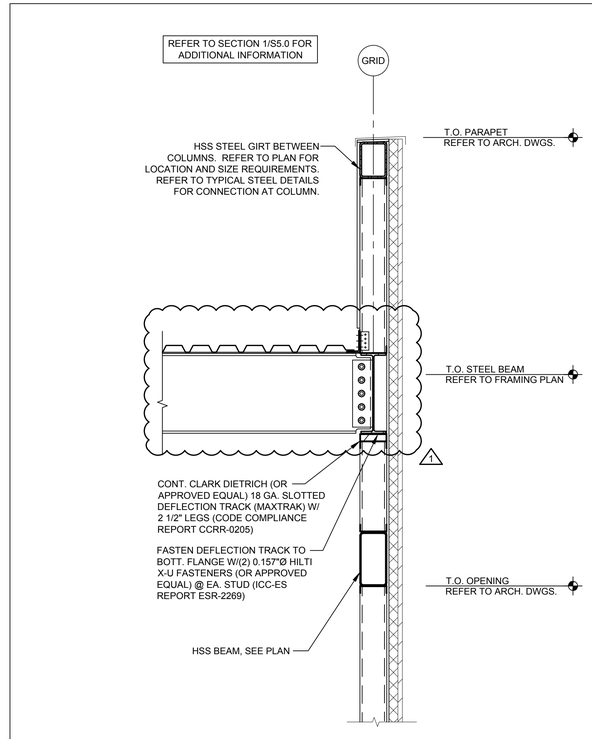
S4.2



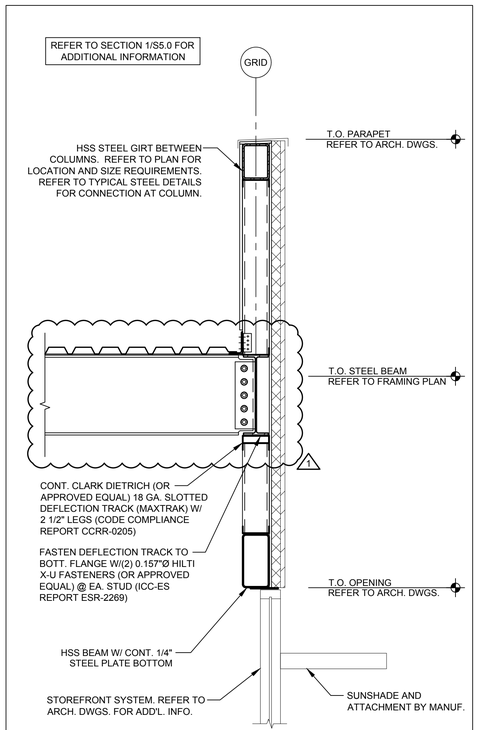
TYPICAL JOIST BEARING ROOF FRAMING SECTION | SCALE 3/4" = 1'-0" | 1



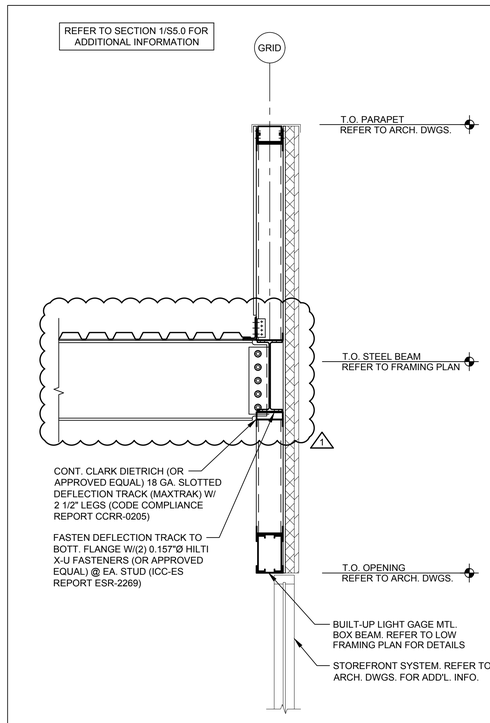
JOIST BEARING & PARAPET GIRT DETAILS | SCALE 1 1/2" = 1'-0" | 2



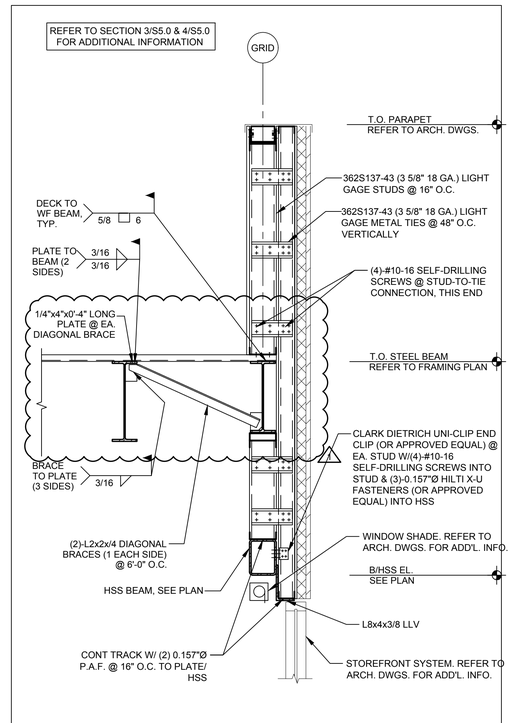
SECTION @ WINDOW | SCALE 1 1/2" = 1'-0" | 4



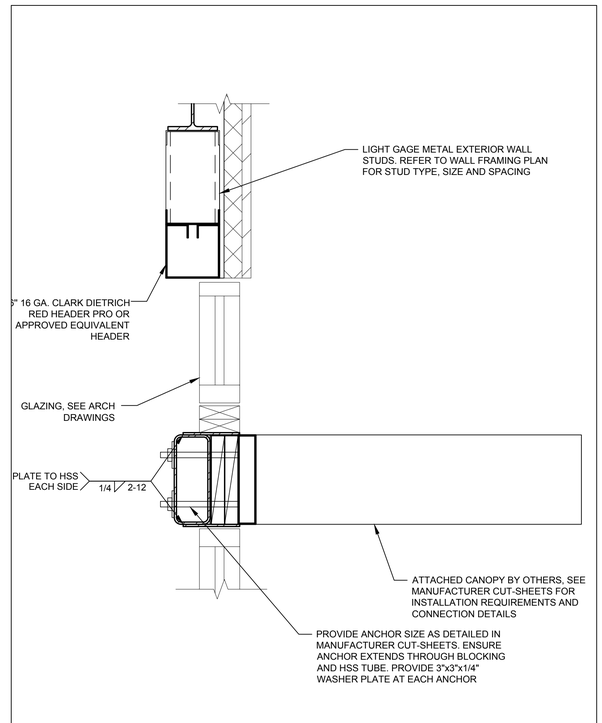
SECTION @ WINDOW | SCALE 1 1/2" = 1'-0" | 4



JOIST BEARING ROOF FRAMING SECTION AT OPENING | SCALE 3/4"=1'-0" | 5



ROOF FRAMING SECTION AT DOUBLE WALL | SCALE 3/4"=1'-0" | 6



CANOPY ATTACHMENT ENLARGED DETAIL | SCALE 1 1/2" = 1'-0" | 7

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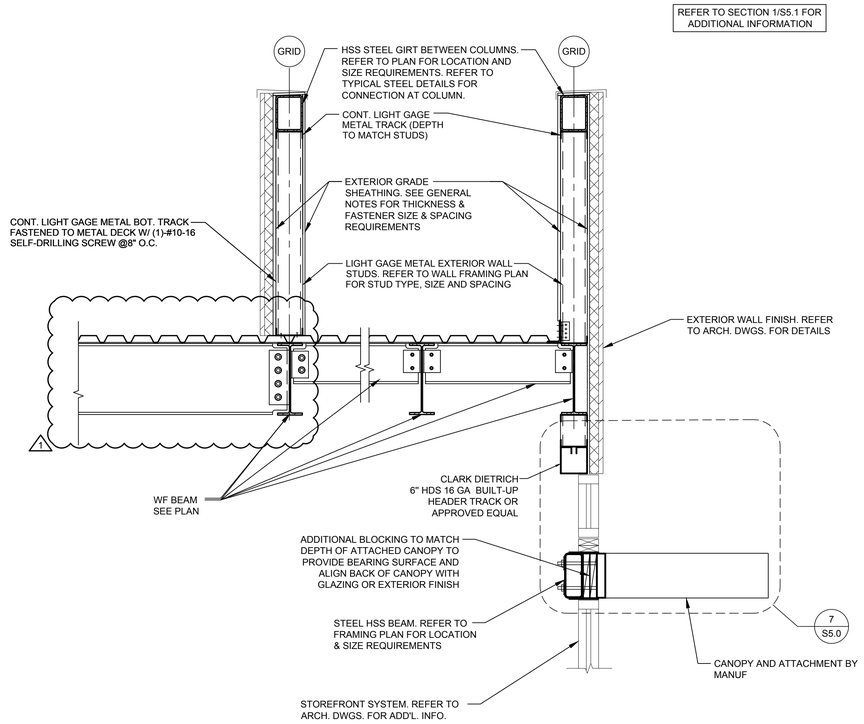
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

ROOF FRAMING SECTIONS

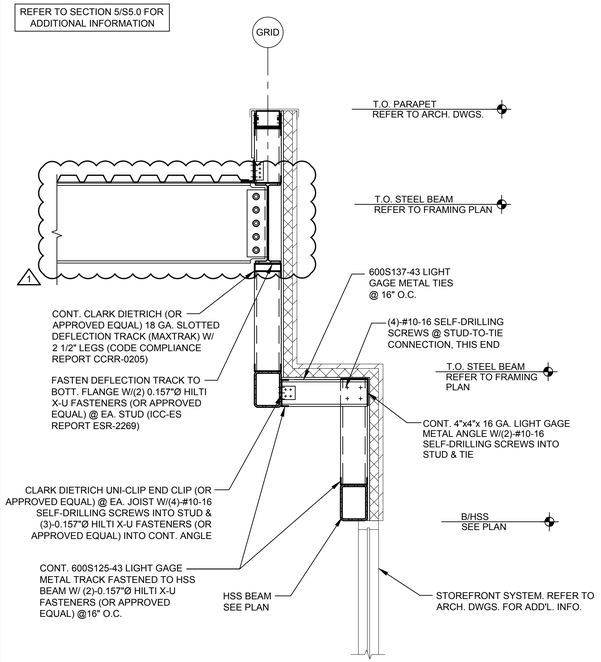
SHEET NUMBER

S5.0

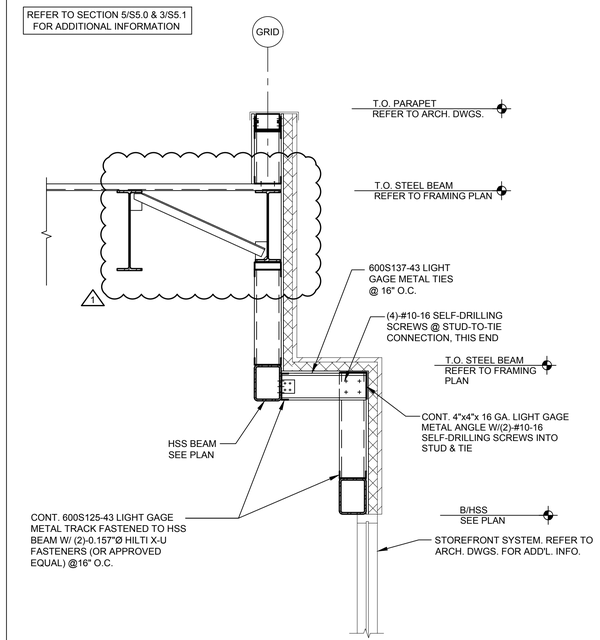


ROOF FRAMING SECTION AT TOWER | SCALE 3/4" = 1'-0" | 1

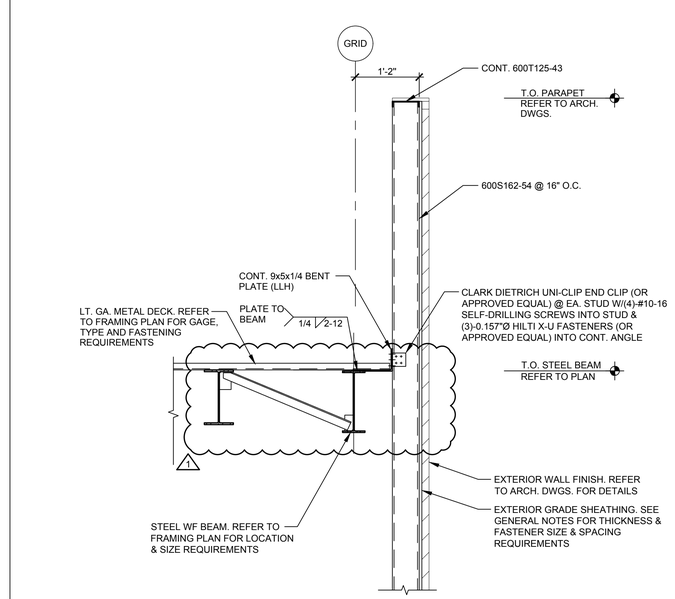
NOT USED | SCALE 3/4" = 1'-0" | 2



ROOF FRAMING SECTION CORNER GLASS JOIST BEARING | SCALE 3/4"=1'-0" | 3



ROOF FRAMING SECTION CORNER GLASS PARALLEL | SCALE 3/4"=1'-0" | 4



ROOF FRAMING SECTION AT BALLOON FRAMING | SCALE 1 1/2" = 1'-0" | 5

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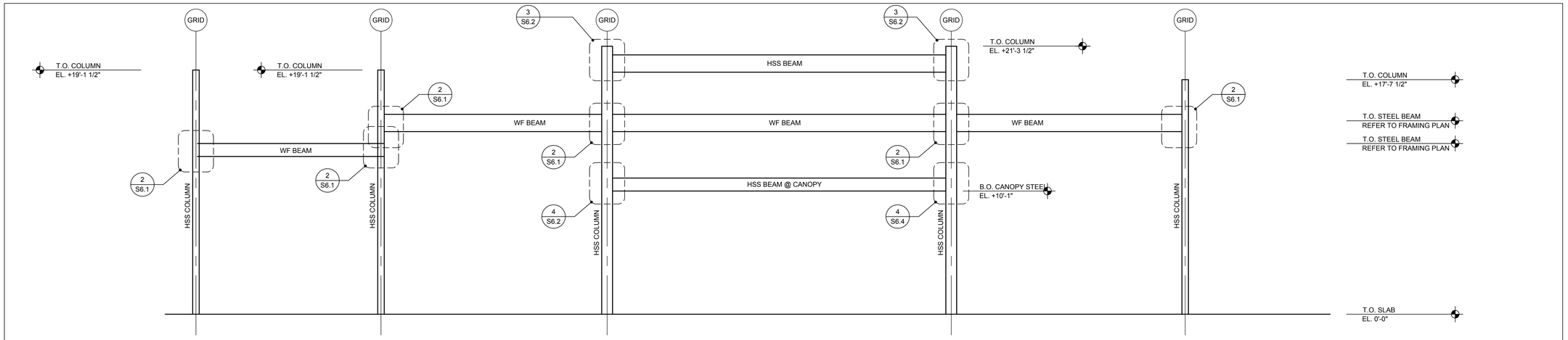
VERSION:	SE_1.00

SHEET TITLE

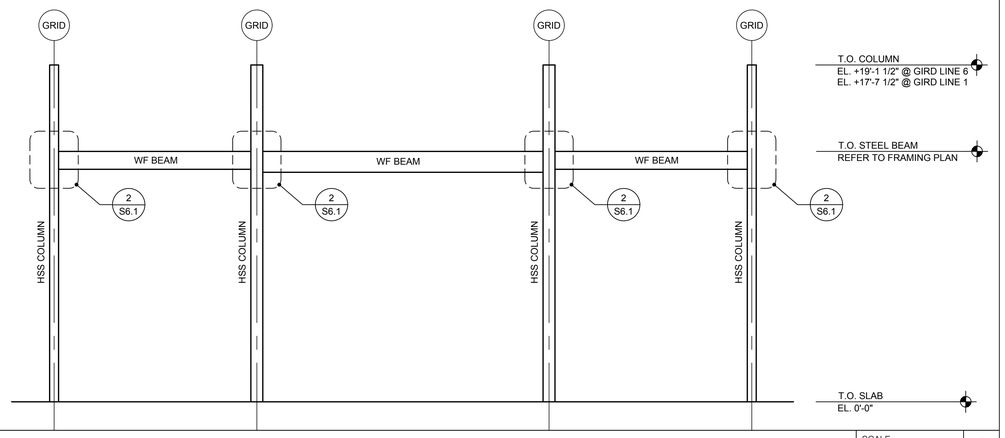
ROOF FRAMING SECTIONS II

SHEET NUMBER

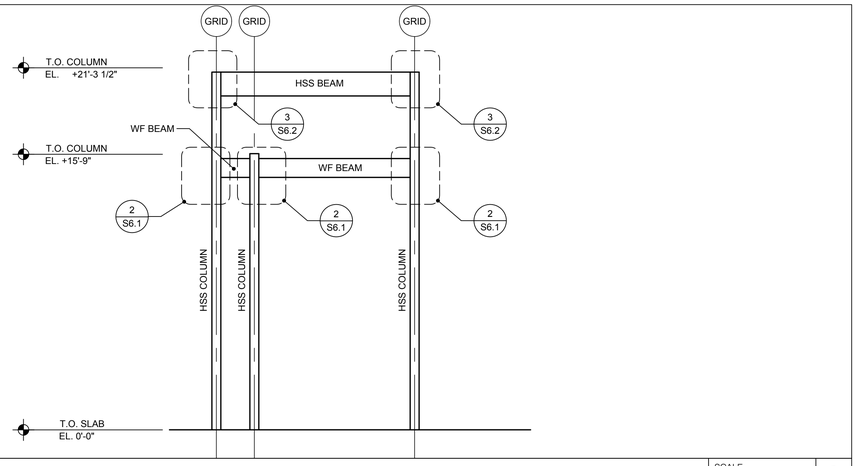
S5.1



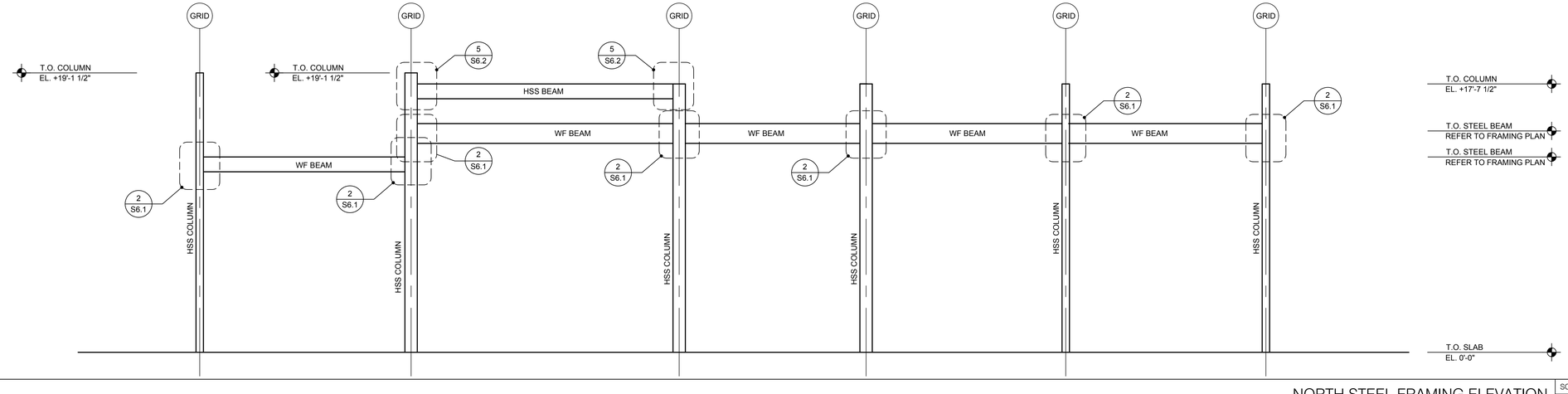
SOUTH STEEL FRAMING ELEVATION | SCALE N.T.S. | 1



EAST/WEST STEEL FRAMING ELEVATION | SCALE N.T.S. | 2



INTERIOR EAST/WEST STEEL FRAMING ELEVATION | SCALE N.T.S. | 3



NORTH STEEL FRAMING ELEVATION | SCALE N.T.S. | 4

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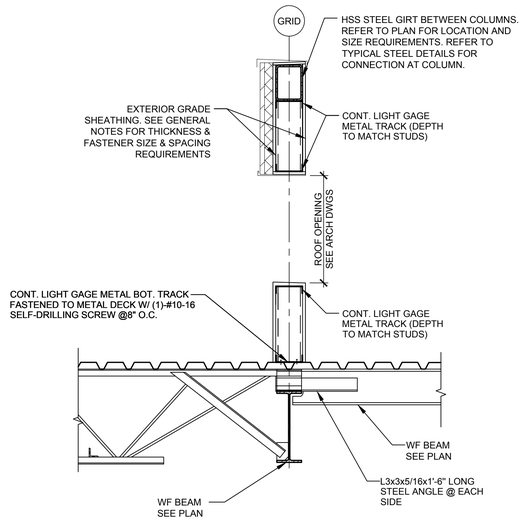
SHEET TITLE

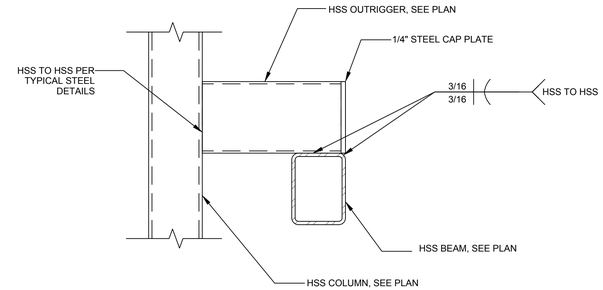
STEEL FRAME ELEVATIONS

SHEET NUMBER

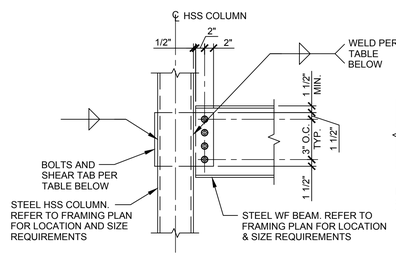
S6.0



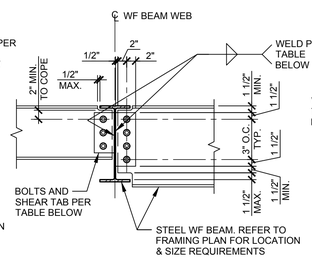
SECTION AT OPENING | SCALE 3/4" = 1'-0" | 4



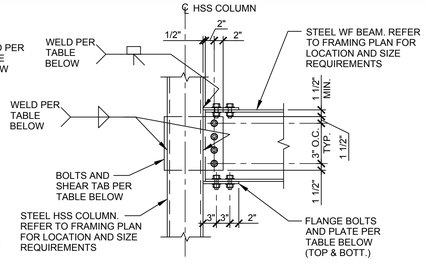
OUTRIGGER TO CANT. BEAM | SCALE 1 1/2" = 1'-0" | 3



TYPICAL BEAM TO HSS COLUMN CONNECTION



TYPICAL BEAM TO BEAM CONNECTION



TYPICAL MOMENT CONNECTION

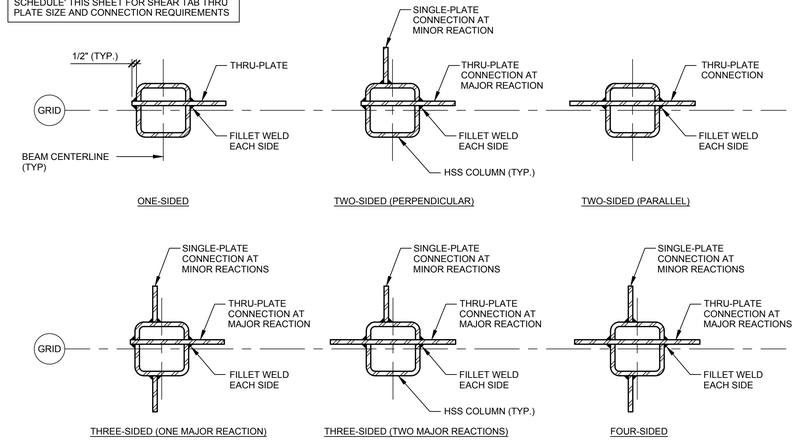
DENOTES MOMENT FRAME CONNECTION ON PLANS, TYP.

STEEL BEAM CONNECTION SCHEDULE

	SHEAR TAB CONNECTION				MAX. COPE LENGTH		FLANGE CONNECTION (MOMENT CONNECTION ONLY)		
MEMBER SIZE	MINIMUM NUMBER OF 3/4"Ø A325 BOLTS	SHEAR TAB THICKNESS (A36)	SHEAR TAB WELD SIZE	MAX. TOP COPE DEPTH	TOP COPE ONLY	TOP & BOT. COPE	MINIMUM NUMBER OF 3/4"Ø A325 BOLTS PER FLANGE PLATE (T&B)	FLANGE PLATE THICKNESS AND WIDTH (A36)	FLANGE PLATE WELD SIZE
W12-W14	3	5/16"	1/4"	2"	6"	3"	4	1/2" x 5"	FULL PEN
W16	4	3/8"	1/4"	2"	7"	4"	6	3/4" x 5 1/2"	FULL PEN
W18	6	1/2"	5/16"	3"	9"	5"	6	3/4" x 6"	FULL PEN
W24	7	1/2"	5/16"	3"	9"	5"	8	3/4" x 7"	FULL PEN

TYPICAL STEEL BEAM CONNECTION SCHEDULE | SCALE N.T.S. | 2

REFER TO 'TYPICAL STEEL BEAM CONNECTION SCHEDULE' THIS SHEET FOR SHEAR TAB THRU PLATE SIZE AND CONNECTION REQUIREMENTS



TYPICAL HSS COLUMN PLATE CONNECTION DETAILS | SCALE N.T.S. | 1

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THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

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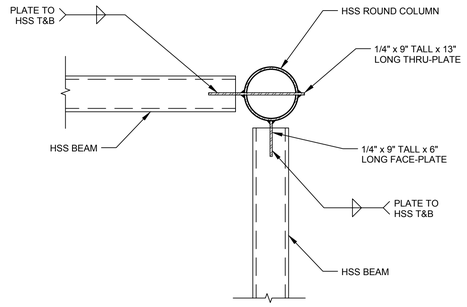
SHEET TITLE

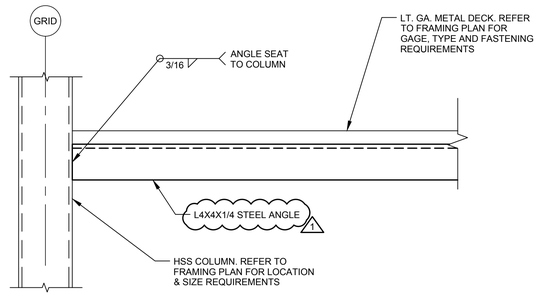
CONNECTION DETAILS

SHEET NUMBER

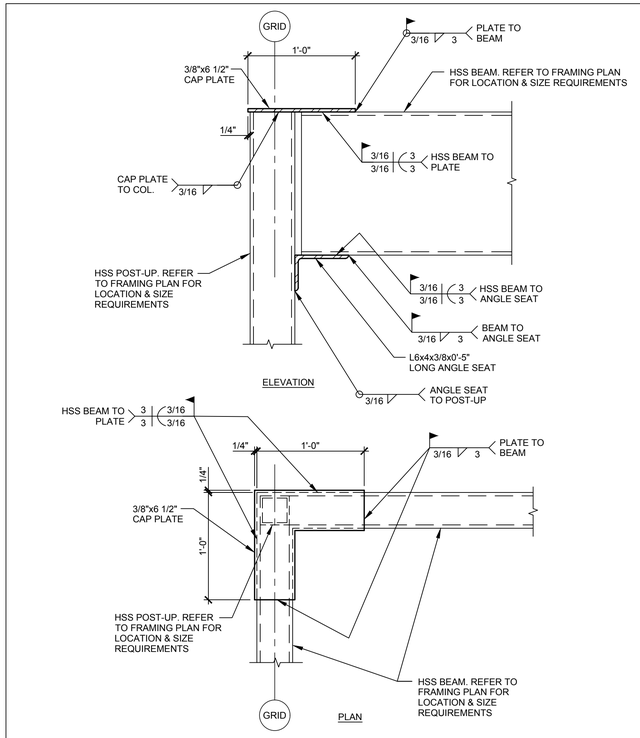
S6.1



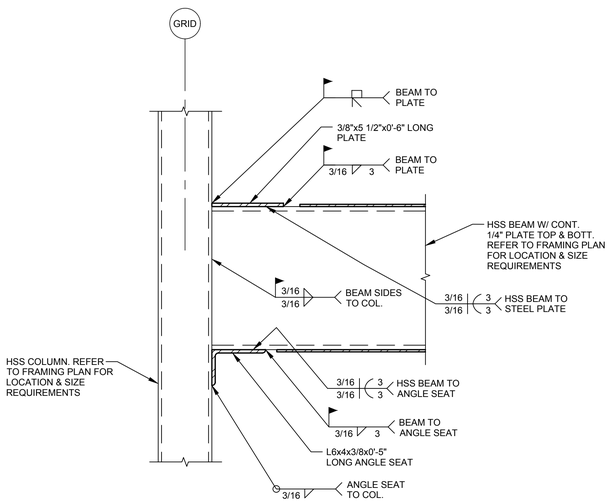
HSS BEAM TO ROUND HSS CONN. | SCALE 3/4" = 1'-0" | 1



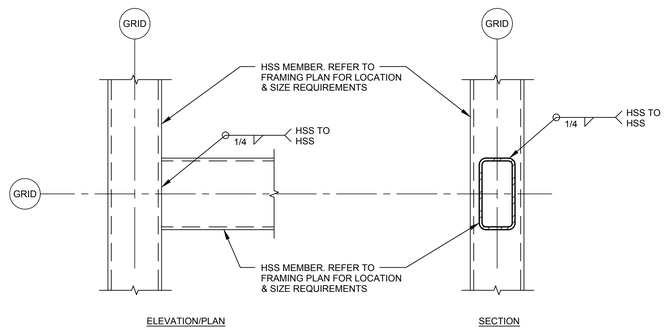
STEEL ANGLE AT COLUMN | SCALE 1 1/2" = 1'-0" | 2



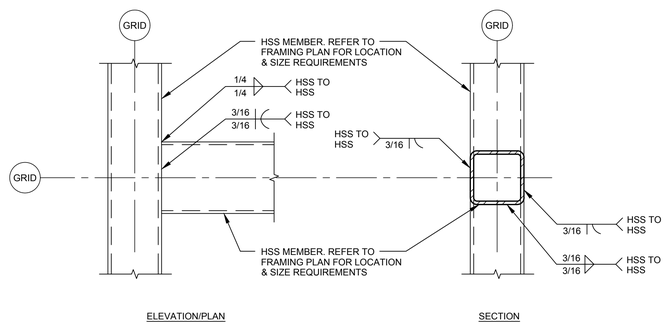
HSS BEAM TO HSS COLUMN MOMENT CONN. AT TOWER | SCALE 1 1/2" = 1'-0" | 3



TYPICAL HSS BEAM TO HSS COLUMN | SCALE 1 1/2"=1'-0" | 4



CONNECTION @ VARYING WIDTH/DEPTH



CONNECTION @ SAME WIDTH/DEPTH

TYPICAL WELDED HSS CONNECTION DETAILS | SCALE 1 1/2"=1'-0" | 5

NOT USED | SCALE 1 1/2"=1'-0" | 6

1

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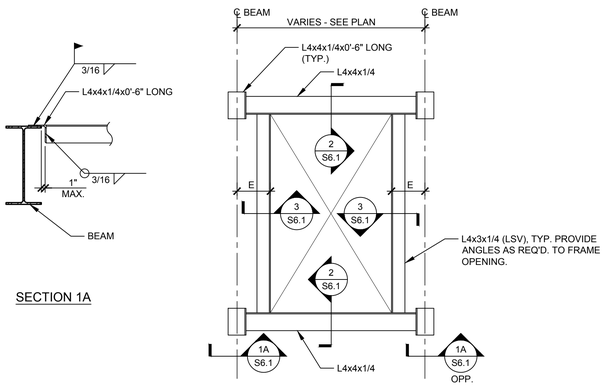
VERSION:	SE_1.00

SHEET TITLE

STEEL CONNECTION DETAILS AND SECTIONS

SHEET NUMBER

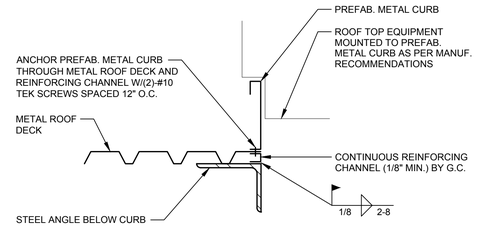
S6.2



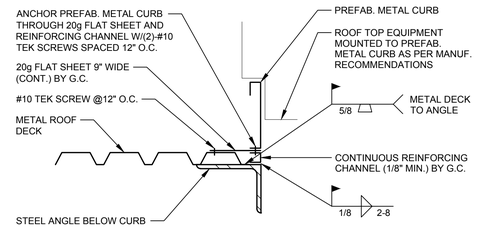
SECTION 1A

DETAIL NOTES:
1. ROOF OPENING DETAIL SHOWN APPLIES TO ROOF HATCH, ROOF DRAINS AND ALL OPENINGS 12" OR GREATER, U.N.O.
2. REINFORCE ROOF OPENINGS LESS THAN 13" BY WELDING 16 GAGE SHEET METAL 1'-0" WIDER THAN THE DECK OPENING TO METAL ROOF DECK
3. WHERE DIMENSION "E" IS LESS THAN 6" ANGLE MAY BE OMITTED.

FRAMED ROOF OPENING DETAIL | SCALE N.T.S. | 1

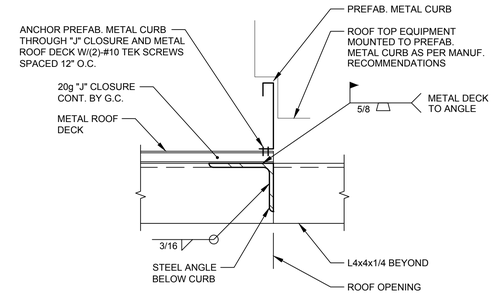


HIGH RIB CONDITION



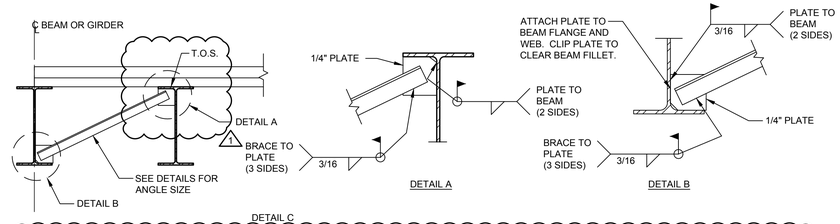
LOW RIB CONDITION

SECTION AT FRAMED OPENING | SCALE N.T.S. | 2



SECTION AT FRAMED OPENING | SCALE N.T.S. | 3

NOT USED | SCALE N.T.S. | 4

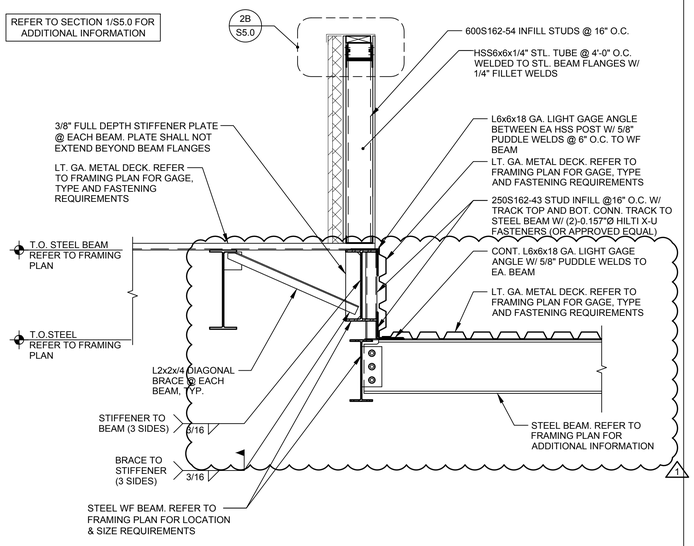


NOTES:
1. SEE PLAN / SECTIONS FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.
3. ALL BRACING SHALL BE IN PLACE AND WELDED BEFORE DECK INSTALLATION.
4. SEE GENERAL NOTES FOR DECK CONSTRUCTION.
5. REFER TO PLAN OR DETAILS FOR ANGLE SIZE. U.N.O. ANGLE SHALL BE L2-1/2x2-1/2x1/4.
6. PLATES SHALL BE PL1/4x4"x0'-4" FOR ANGLE LEGS UP TO 3" WIDE. PLATES SHALL BE PL1/4"x5"x0'-5" FOR ANGLE LEGS UP TO 4" WIDE.

BOTTOM FLANGE BRACE DETAIL | SCALE N.T.S. | 5

NOT USED | SCALE N.T.S. | 6

NOT USED | SCALE N.T.S. | 7



SECTION | SCALE N.T.S. | 8

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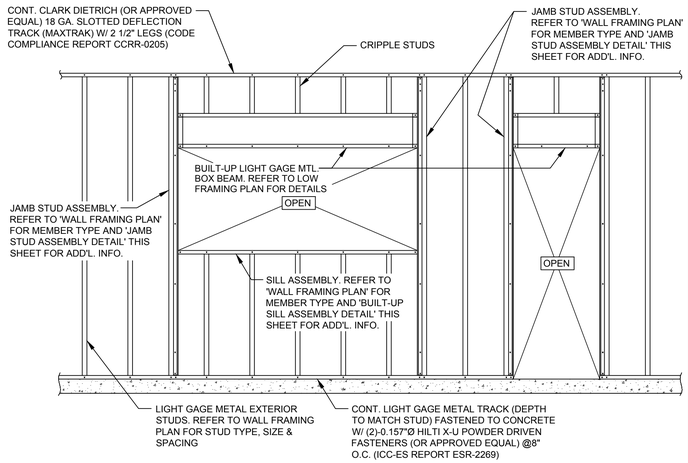
SHEET TITLE

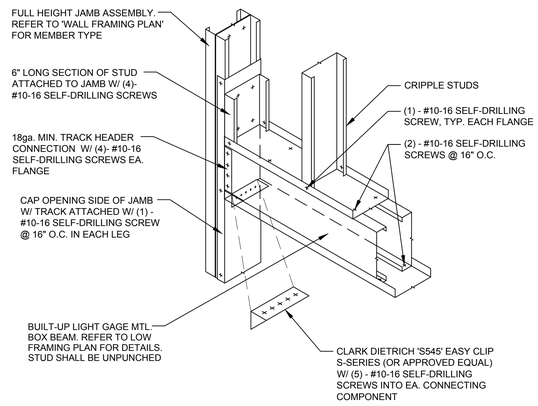
TYPICAL STEEL DETAILS

SHEET NUMBER

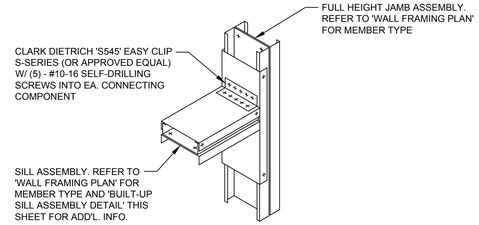
S6.3



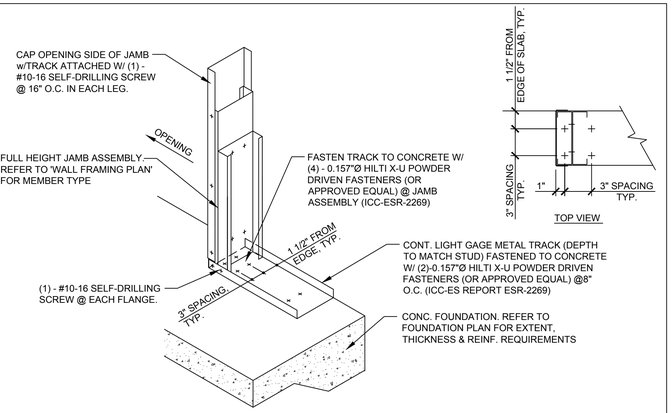
LIGHT GAGE EXTERIOR WALL | SCALE N.T.S. | 1



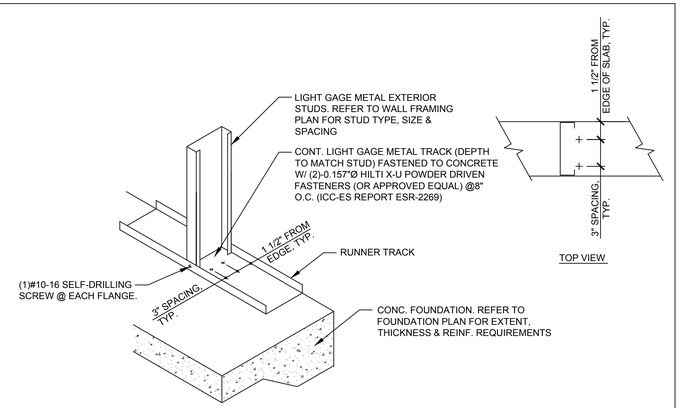
BUILT-UP BOX BEAM HEADER DETAIL | SCALE N.T.S. | 2



BUILT-UP SILL ASSEMBLY DETAIL | SCALE N.T.S. | 3



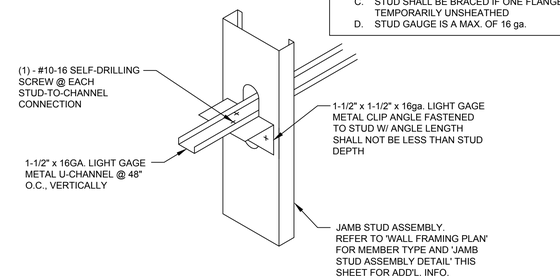
JAMB STUD ASSEMBLY DETAIL | SCALE N.T.S. | 4



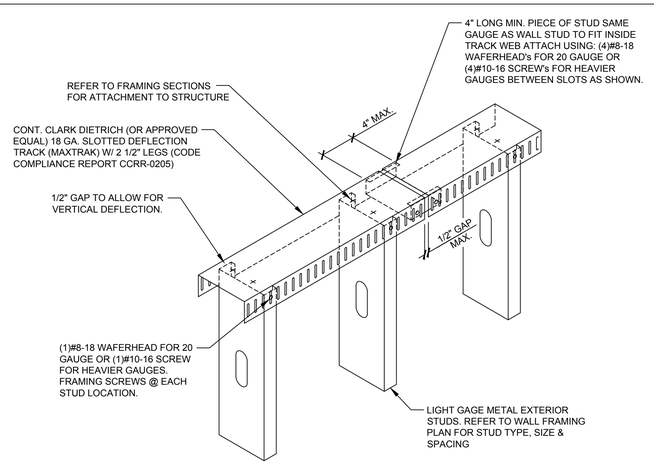
STUD-TO-TRACK CONNECTION DETAIL | SCALE N.T.S. | 5

NOTES:

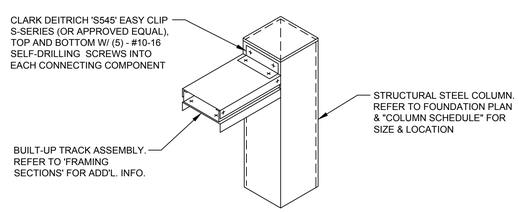
1. THIS DETAIL SHALL NOT BE UTILIZED IF STUD DEPTH EXCEEDS 8"
2. RIGID FACING MATERIAL APPLIED TO BOTH STUD FLANGES MAY BE UTILIZED IN LIEU OF U-CHANNEL, PROVIDED THE FOLLOWING CRITERIA:
   A. STUD HEIGHT DOES NOT EXCEED 16'
   B. SHEATHING APPLIED TO BOTH STUD FLANGES FULL HEIGHT PER APPLICABLE A.S.T.M. STANDARDS
   C. STUD SHALL BE BRACED IF ONE FLANGE IS TEMPORARILY UNSHEATHED
   D. STUD GAUGE IS A MAX. OF 16 ga.



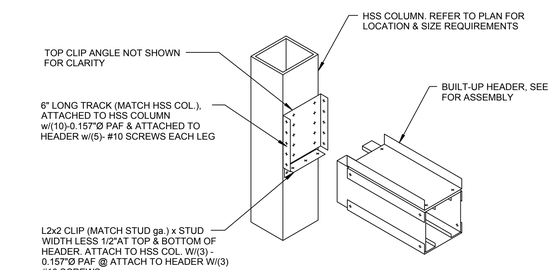
LIGHT GAGE STUD BRIDGING DETAIL | SCALE N.T.S. | 6



DEFLECTION TRACK DETAIL | SCALE N.T.S. | 7



BUILT-UP PARAPET TRACK ASSEMBLY DETAIL | SCALE N.T.S. | 8



HEADER TO COLUMN CONNECTION DETAIL | SCALE N.T.S. | 9

CHASE

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID BALMA
NUMBER PE-2015003007
PROFESSIONAL ENGINEER
04/20/21

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-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFORMATION

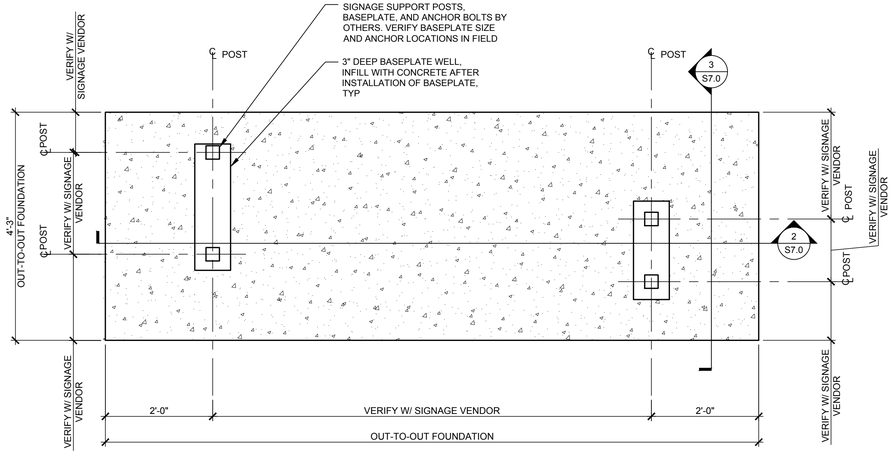
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	J.PEREZ
CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

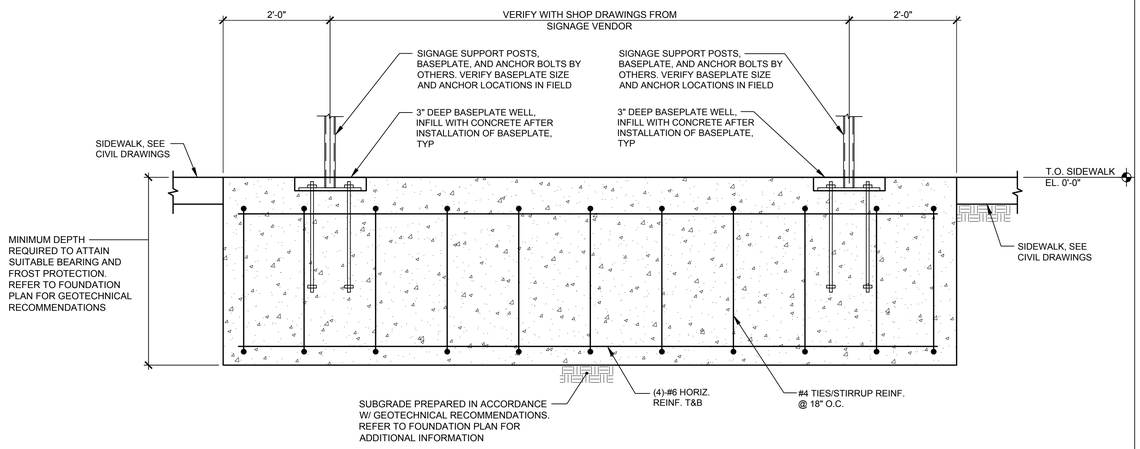
TYPICAL LIGHT GAGE DETAILS

SHEET NUMBER

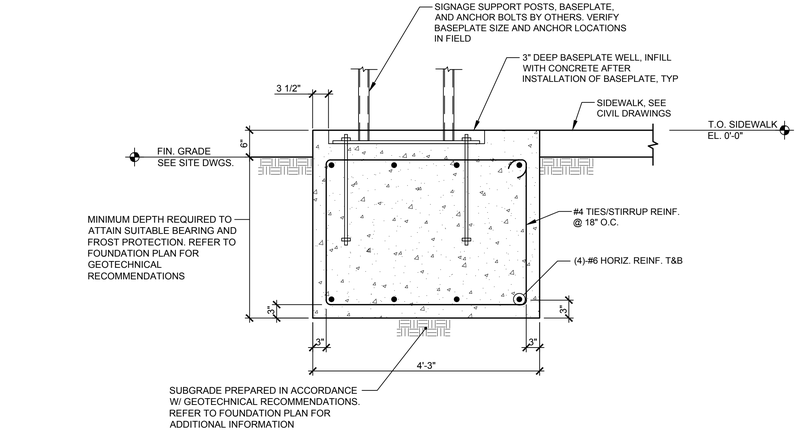
S6.4



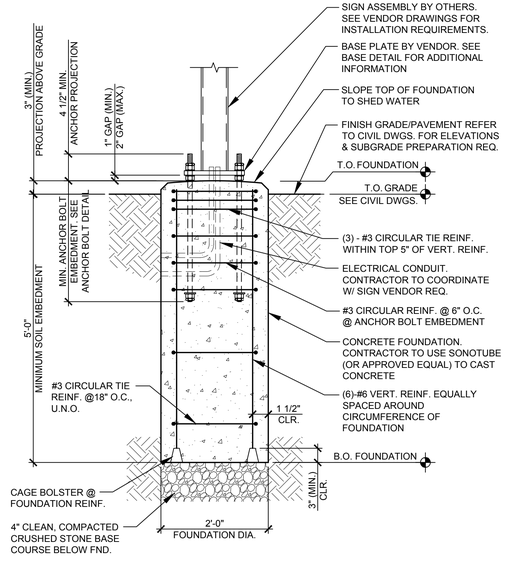
ATM CANOPY FOUNDATION PLAN | SCALE 1/4" = 1'-0" | 1



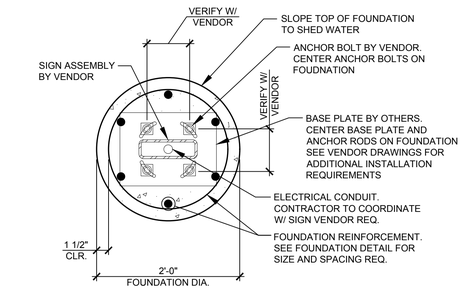
ATM CANOPY LONGITUDINAL FOUNDATION SECTION | SCALE 3/4" = 1'-0" | 2



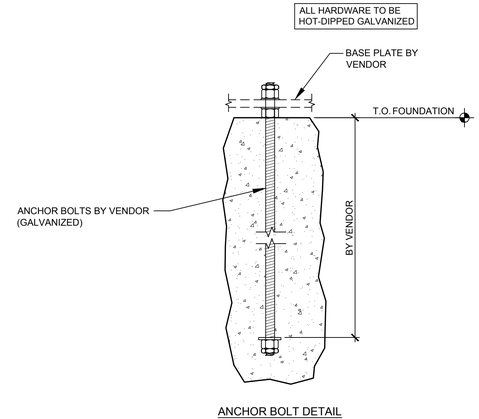
ATM CANOPY TRANSVERSE FOUNDATION SECTION | SCALE 3/4"=1'-0" | 3



FOUNDATION DETAIL



BASE DETAIL



ANCHOR BOLT DETAIL

HEADACHE BAR FOUNDATION DETAILS | SCALE 3/4"=1'-0" | 4

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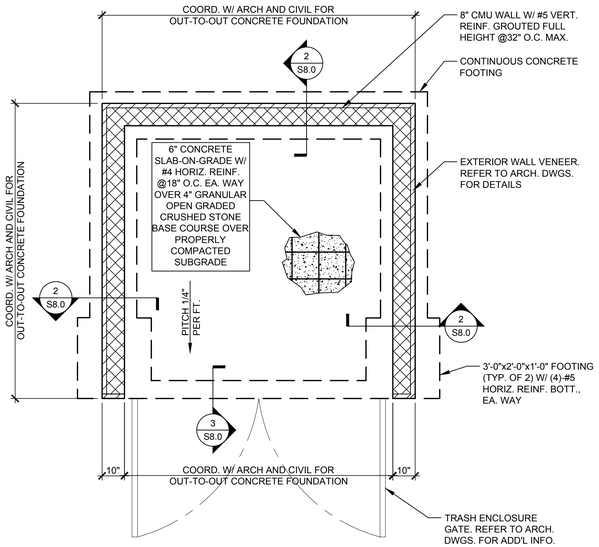
VERSION:	SE_1.00

SHEET TITLE

CANOPY FOUNDATION PLAN & DETAILS

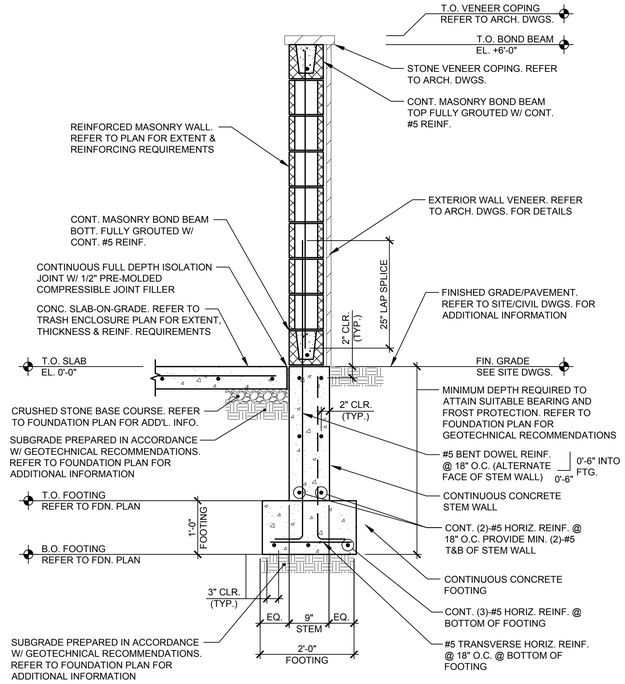
SHEET NUMBER

S7.0

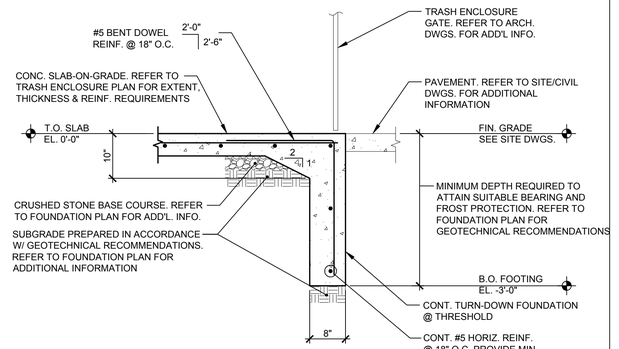


NOT USED | SCALE 3/8" = 1'-0" | 1

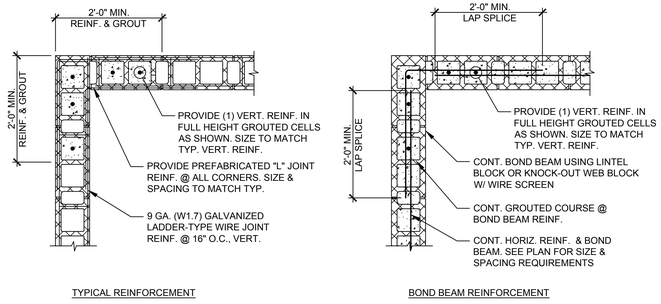
TYPICAL SECTION NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION NOT PROVIDED IN SECTION.



TYPICAL TRASH ENCLOSURE WALL SECTION | SCALE 3/4"=1'-0" | 2



TRASH ENCLOSURE SECTION AT THRESHOLD | SCALE 3/4"=1'-0" | 3



TYPICAL MASONRY CORNER BAR DETAIL | SCALE 3/4"=1'-0" | 4

NOT USED | SCALE 3/4"=1'-0" | 5

NOT USED | SCALE 3/4"=1'-0" | 6

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CHECKED BY:	E.SCALGIONE
VERSION:	SE_1.00

SHEET TITLE

TRASH ENCLOSURE DETAILS

SHEET NUMBER

S8.0

MECHANICAL GENERAL NOTES:

1.	HVAC WORK CONSISTS OF PROVIDING AIR CONDITIONING SYSTEMS FOR A COMPLETE OPERATING SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL COMPLY WITH *2018 INTERNATIONAL MECHANICAL CODE* AND ALL OTHER APPLICABLE CODES IN SPECIFICATIONS. IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATION TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
2.	AN AIR BALANCE SHALL BE PERFORMED BY AN APPROVED INDEPENDENT THIRD PARTY AIR BALANCE CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC), THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE TESTING, ADJUSTING, AND BALANCING BUREAU (TABB). BALANCE EACH SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3.	ALL DUCT SIZES SHOWN ARE FREE AREA SIZES AND DO NOT ACCOUNT FOR INSULATION. INSULATE ALL DUCTWORK, EXCEPT EXHAUST DUCTWORK, WITH 2" FIBERGLASS DUCT WRAP INSTALLED TO A MINIMUM R VALUE OF 6. PROVIDE WITH VAPOR BARRIER AND TAPE ALL JOINTS. PROVIDE 1" THICK DUCT LINER WHERE INDICATED ON PLANS.
4.	PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS (NO EXTRACTOR) AND DAMPER.
5.	MAXIMUM LENGTH OF FLEX DUCT IS LIMITED TO 5'-0".
6.	ALL PIPING SUBJECT TO THERMAL EXPANSION AND/OR CONTRACTION THAT PENETRATES A SMOKE, FIRE, OR FIRE/SMOKE WALL, PARTITION, OR FLOOR SLAB SHALL BE SUITABLY SLEEVED AND FIRE-SAFED.
7.	METAL DUCTS WHICH PENETRATE 1 HOUR RATED FIRE WALLS AND ARE LESS THAN 100 SQUARE INCHES SHALL EXTEND A MINIMUM OF 5 FEET ON BOTH SIDES OF THE WALL WITHOUT AN OPENING (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER THAN 24 GAUGE STEEL.
8.	PROVIDE IDENTIFICATION OF THE LOCATION OF ALL FIRE AND BALANCING DAMPERS. IDENTIFICATION TAGS SHALL BE AFFIXED TO THE WALLS OR CEILINGS AND SHALL BE VISIBLE FROM THE OCCUPIED SPACE.
9.	PROVIDE ORANGE TAGS ON ALL VOLUME AND BALANCING DAMPERS ABOVE THE CEILING. TAGS AND DAMPER HANDLES SHALL BE VISIBLE AND ACCESSIBLE FOR THE TEST & BALANCE AGENCY.
10.	ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
11.	INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
12.	CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
13.	ALL INSULATION SHALL BE FIRE RATED IN ACCORDANCE WITH NFPA 90A 50/25 SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. INSULATION 'R' VALUES SHALL COMPLY WITH APPLICABLE ENERGY CODE.
14.	MOUNT ALL SPACE THERMOSTATS 48" AFF. MOUNT REMOTE TEMPERATURE SENSORS AT 60" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ADJACENT EQUIPMENT.
15.	INSTALL DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY DIVISION 26) IN SUPPLY AND/OR RETURN AIR DUCTWORK WHERE REQUIRED AND IN ACCORDANCE WITH APPLICABLE CODE. WIRE DUCT MOUNTED SMOKE DETECTORS SUCH THAT ACTIVATION WILL DE-ENERGIZE AIR HANDLING UNIT FAN. LOCATE DUCT MOUNTED SMOKE DETECTORS THE REQUIRED DISTANCE DOWNSTREAM FROM BENDS OR INLETS AS RECOMMENDED BY THE MANUFACTURER.
16.	SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
17.	UNLESS OTHERWISE NOTED, INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO THE BOTTOM OF THE STRUCTURE. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS, AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAY.
18.	PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS. SIZE PER MANUFACTURERS REQUIREMENTS.
19.	CONTRACTOR SHALL NOT ATTACH SUPPORTS OR HANGERS DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM, OR DUCTWORK ABOVE. HANGERS, SUPPORTS, FASTENING DEVICES, ETC. SHALL BE FASTENED TO TOP CHORD OF THE JOIST AND/OR FLANGE OF THE BEAMS ABOVE.
20.	THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO IDENTIFY ABOVE CEILING CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO CHECK FIELD CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
21.	THE WORK INDICATED ON THESE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF DUCTWORK AND EQUIPMENT.
22.	ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
23.	UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
24.	WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
25.	THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
26.	PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION.
27.	ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
28.	MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, FAN COILS, CONDENSING UNITS, RTU'S, AND EXHAUST FANS.
29.	ALL REFRIGERANT SHALL BE R-410A. NO R-22 SHALL BE USED.
30.	ALL PROVISIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. ALL PROVISIONS FOR LOW VOLTAGE WIRING SHALL BE BY THE MECHANICAL CONTRACTOR. FINAL CONNECTIONS SHALL BE BY THE MECHANICAL CONTRACTOR FOR LOW VOLTAGE WIRING UNLESS PROHIBITED BY LOCAL JURISDICTION, IN SUCH CASE THE MECHANICAL CONTRACTOR SHALL INFORM THE ELECTRICAL CONTRACTOR.
31.	ROUTE FULL SIZE PVC DRAIN PIPE FROM EACH RTU (1" MIN) DRAIN PAN AND FROM EACH FCU (3/4" MIN)TO RESPECTIVE FLOOR DRAIN OR TO DAYLIGHT WITH AIR GAP. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION.
32.	ALL MATERIALS WITHIN RETURN AIR PLENUMS OR EXPOSED WITHIN DUCTS SHALL BE NONCOMBUSTIBLE AND/OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTME 84.

ABBREVIATIONS

AC	AIR CONDITIONING
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BD	BYPASS DAMPER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CT	COOLING TOWER
CU	CONDENSING UNIT
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DN	DOWN
DP	DEW POINT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ET	EXPANSION TANK
EL	ELEVATION
EQUIP	EQUIPMENT
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FL	FLOOR
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
G	NATURAL GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDITY
HC	HEATING COIL
HX	HEAT EXCHANGER
HP	HORSE POWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MD	MOTORIZED DAMPER
MAX	MAXIMUM
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OS&Y	OUTSIDE SCREW & YOKE
PD	PRESSURE DROP
PRESS	PRESSURE
RA	RETURN AIR
RD	ROOF DRAIN
RG	REFRIGERANT
RL	RAIN LEADER
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SA	SUPPLY AIR
SP	STATIC PRESSURE
SYS	SYSTEM
T	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VD	VOLUME DAMPER
VSD	VARIABLE SPEED DRIVE
WB	WET BULB

MECHANICAL AND PLUMBING EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY BUSINESS - B

SEISMIC CATEGORY B

EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
EQUIPMENT ON ROOF Ip = 1.0 RTU, CU-1 & CU-2	X		X					
EQUIPMENT SUSPENDED FROM STRUCTURE (Ip = 1.0) FCU-1	X		X					
EQUIPMENT MOUNTED ON WALL (Ip = 1.0) FCU-2	X		X					

PIPING

- PIPING AND/OR EQUIPMENT TO BE REMOVED
- EXISTING PIPING TO REMAIN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CD — CONDENSATE LINE
- REFRIGERANT PIPING
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- DOMESTIC WATER
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BALL VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- PRESSURE REDUCING VALVE
- SAFETY OR PRESSURE RELIEF VALVE
- VALVE IN RISER
- DIRECTION OF FLOW
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45 OR 90 DEG.
- BOTTOM CONNECTION, 45 OR 90 DEG.
- SIDE CONNECTION
- CAPPED OUTLET
- DROP IN PIPING
- RISE IN PIPING
- UNION
- OUTSIDE SCREW & YOKE (O S & Y)
- FLEXIBLE CONNECTION
- PRESSURE GAUGE
- THERMOMETER
- STRAINER WITH BALL VALVE
- EXPANSION JOINT

GENERAL CONTROL DEVICES

- T/S — THERMOSTAT / TEMPERATURE SENSOR
- H/CO2 — HUMIDITY SENSOR / CARBON DIOXIDE SENSOR
- SMOKE DETECTOR (DUCT MOUNTED) PROVIDED BY DIV. 16 INSTALLED BY DIV. 15

DAINTREE CONTROL DEVICES

- T — BMS WIRELESS THERMOSTAT: DAINTREE NETWORKS #WTS10
- S — BMS WIRELESS REMOTE TEMP. SENSOR: DAINTREE #TPZRS/HA1.2 (WALL MOUNT)
- S — BMS WIRELESS REMOTE TEMP. SENSOR: DAINTREE #TPZRS/HA1.2 (CEILING MOUNT)
- CURRENT TRANSFORMER: DAINTREE #CR9580-10-M
- LD — LEAK DETECTION SENSOR: DAINTREE #RBA-BA/LDT1-PS-BB;
- EXT — BMS WIRELESS EXTERIOR TEMP. SENSOR: TITAN #TPZOS/O/HA1.2
- DUCT — BMS WIRELESS DUCT TEMP. SENSOR: TITAN #TPZDS-S OR SIMILAR
- EQUIP — BMS HARDWIRED EQUIP. TEMP. SENSOR: DAINTREE #RBA-BA/10K-2-86
- WGA — BMS WIRELESS GENERAL ADAPTER: DAINTREE #WGA100
- WSA — BMS WIRELESS SENSOR ADAPTER: DAINTREE #WSA10

NOTE:
BMS CONTROL DEVICES TO BE ORDERED FROM THE BMS EQUIPMENT VENDOR. COORDINATE WITH PROJECT ELECTRICIAN.

NOTE:

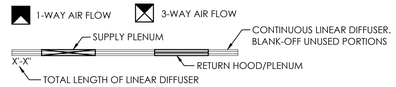
THESE ARE STANDARD SYMBOLS AND GENERAL NOTES AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

DUCTWORK

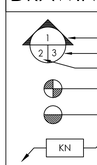
- UP DN — SUPPLY DUCT (UP & DOWN)
- UP DN — EXHAUST DUCT (UP & DOWN)
- UP DN — RETURN AIR DUCT (UP & DOWN)
- CEILING DIFFUSERS/GRILLES (DOUBLE LINE)
- CEILING DIFFUSERS/GRILLES (SINGLE LINE)
- SIDE WALL REGISTER OR GRILLE (DOUBLE LINE)
- SIDE WALL REGISTER OR GRILLE (SINGLE LINE)
- WIRE MESH SCREEN (DOUBLE LINE)
- WIRE MESH SCREEN (SINGLE LINE)
- 10x8 — NEW DUCT - WIDTH x DEPTH (DOUBLE LINE)
- 10x8 — NEW DUCT - WIDTH x DEPTH (SINGLE LINE)
- EXISTING DUCT TO REMAIN (DOUBLE LINE)
- EXISTING DUCT TO REMAIN (SINGLE LINE)
- EXISTING DUCT TO BE REMOVED (DOUBLE LINE)
- EXISTING DUCT TO BE REMOVED (SINGLE LINE)
- FLEXIBLE DUCTWORK (INSULATED)
- DUCT TRANSITION - CONCENTRIC (DOUBLE LINE)
- DUCT TRANSITION - CONCENTRIC (SINGLE LINE)
- DUCT TRANSITION - ECCENTRIC (DOUBLE LINE)
- DUCT TRANSITION - ECCENTRIC (SINGLE LINE)
- DUCT TRANSITION - RECT. TO RND (DOUBLE LINE)
- DUCT TRANSITION - RECT. TO RND (SINGLE LINE)
- MANUAL VOLUME DAMPER (DOUBLE LINE)
- M — MANUAL VOLUME DAMPER (SINGLE LINE)
- M — MOTOR OPERATED DAMPER
- BD — BACK DRAFT DAMPER
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
- R — INCLINED RISE, IN DIRECTION OF AIR FLOW (SINGLE LINE)
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW (DOUBLE LINE)
- D — INCLINED DROP, IN DIRECTION OF AIR FLOW (SINGLE LINE)
- FLEXIBLE CONNECTION (DOUBLE LINE)
- FLEXIBLE CONNECTION (SINGLE LINE)
- FIRE DAMPER
- SMOKE DAMPER
- FIRE/SMOKE DAMPER
- SMOKE DETECTOR (DUCT MOUNTED)
- DUCT MOUNTED COIL/HEATER (DOUBLE LINE)
- DUCT MOUNTED COIL/HEATER (SINGLE LINE)
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
- VANED RADIUS ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH TURNING VANES EVEN IF SYMBOL IS MISSING)
- ACOUSTICALLY LINED DUCT
- VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (DOUBLE LINE)
- VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF (SINGLE LINE)
- 100 CFM / 6" TYP. (A) — AIR FLOW CFM; AIR DEVICE TYPE (EX = Existing); AIR DEVICE NECK SIZE

AIR DEVICES

- 2-WAY AIR FLOW
- 4-WAY AIR FLOW
- 1-WAY AIR FLOW
- 3-WAY AIR FLOW



DRAWING SYMBOLS



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NUMBER PE-2013031214
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01/05/2020

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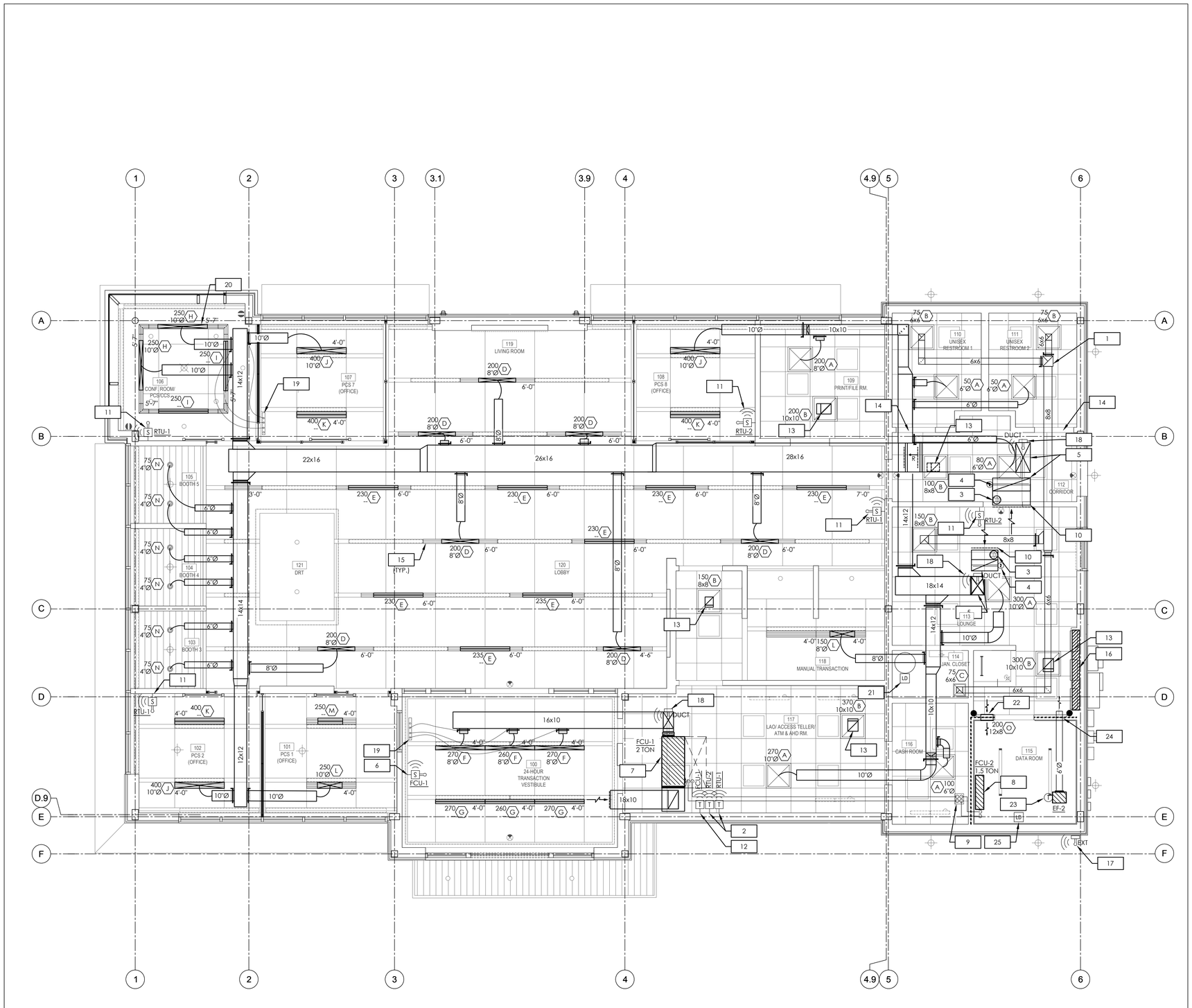
DATE:	
PROTOTYPE:	**20.2**
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

MECHANICAL LEGENDS AND GENERAL NOTES

SHEET NUMBER

M0.0



MECHANICAL FLOOR PLAN | SCALE 1/4"=1'-0" | 1

MECHANICAL NOTES:

1.	CONTRACTOR TO PROVIDE AND INSTALL NEW 10x10 EXHAUST DUCT FROM UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN. COORDINATE ROOF PENETRATION WITH BUILDING STRUCTURE.
2.	CONTRACTOR TO INSTALL NEW STANDARD DAINTREE S-WIRE WI-FI COMMUNICATING THERMOSTAT. THERMOSTAT SHALL BE WIRED FOR CONTROL OF RTU'S WITH REMOTE SENSOR INPUT. MOUNT ON WALL 48" ABOVE FINISHED FLOOR AND COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. REFER TO HVAC CONTROLS TABLE ON SHEET M2.0 FOR ADDITIONAL INFORMATION.
3.	PROVIDE DUCT MOUNTED CO2 SENSOR FOR ROOF TOP UNIT.
4.	MOUNT NEW 120V DUCT MOUNTED SMOKE DETECTOR (FURNISHED AND WIRED BY DIV 26) IN MAIN RETURN AIR DUCT. DETECTORS SHALL BE INTERLOCKED BY ELECTRICAL CONTRACTOR TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE.
5.	SUPPLY AIR DUCT AND RETURN AIR DUCT UP THROUGH ROOF TO ROOF MOUNTED A/C UNIT (RTU). PROVIDE WITH FLEXIBLE DUCT CONNECTIONS. TRANSITION DUCTWORK TO FULL SIZE OF UNIT OPENING AS REQUIRED.
6.	CONTRACTOR TO INSTALL STANDARD DAINTREE WIRELESS REMOTE TEMPERATURE SENSOR SERVING FCU-1. MOUNT ON WALL 60" ABOVE FINISHED FLOOR AND COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. REFER TO HVAC CONTROLS TABLE ON SHEET M2.0 FOR ADDITIONAL INFORMATION.
7.	DUCTED FAN COIL UNIT (FCU-1) LOCATED JUST ABOVE LAO ROOM CEILING. SUSPEND UNIT FROM STRUCTURE AND INSTALL UNIT SUCH THAT ALL MAINTENANCE PANELS ARE IN AN ACCESSIBLE LOCATION. PROVIDE CONDENSATE PUMP, AUXILIARY DRAIN PAN, AND WATER LEVEL DETECTION DEVICE. SEE PLUMBING PLANS FOR CONDENSATE ROUTING.
8.	WALL MOUNTED DUCTLESS FAN COIL UNIT (FCU-2). COORDINATE ACTUAL INSTALLATION LOCATION IN FIELD WITH OWNER. INSTALL CONDENSATE PUMP ON WALL ABOVE DROP CEILING AS CLOSE AS POSSIBLE TO FAN COIL. SEE PLUMBING DRAWINGS FOR CONDENSATE PIPE ROUTING.
9.	REFRIGERANT SUCTION AND LIQUID LINES UP THROUGH ROOF TO REMOTE ROOF MOUNTED CONDENSING UNITS (CU-1 & 2). ROUTE LINES ABOVE ROOF AS STRAIGHT AS POSSIBLE. PROVIDE WITH MINIMUM 3/4" THICK INSULATION.
10.	CONTRACTOR TO ROUTE FULL SIZE RETURN DUCT DOWN FROM ROOF TOP UNIT. PROVIDE RETURN DUCT WITH 1" LINER AND TERMINATE WITH A 90° ELBOW AND WIRE MESH SCREEN.
11.	CONTRACTOR TO INSTALL STANDARD DAINTREE WIRELESS REMOTE AVERAGING TEMPERATURE SENSOR SERVING CORRESPONDING RTU. MOUNT ON WALL 60" ABOVE FINISHED FLOOR AND COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. REFER TO HVAC CONTROLS TABLE ON SHEET M2.0 FOR ADDITIONAL INFORMATION.
12.	CONTRACTOR TO PROVIDE AND INSTALL NEW STANDARD DAINTREE S-WIRE COMMUNICATING THERMOSTAT. THERMOSTAT SHALL BE WIRED FOR CONTROL OF FCU-1 AND INSTALLED IN THE LTOS ROOM. MOUNT ON WALL 48" ABOVE FINISHED FLOOR. REFER TO HVAC CONTROLS TABLE ON M2.0 FOR ADDITIONAL INFORMATION.
13.	CONTRACTOR TO PROVIDE AND INSTALL SOUND ATTENUATION BOOT ON RETURN GRILLE. REFER TO DETAIL ON SHEET M3.0 FOR MORE INFORMATION. DUCT SIZE SHALL MATCH SIZE INDICATED ON DIFFUSER TAG.
14.	PROVIDE 1" DOOR UNDERCUT.
15.	LINEAR SLOT FIXTURES SET IN 4" UTILITY CHANNEL ARE INTENDED TO HAVE A CONTINUOUS SEAMLESS APPEARANCE FOR THE FULL RUN OF THE CHANNEL WITHOUT VISUAL DIFFERENTIATION BETWEEN SUPPLY AIR, RETURN AIR, AND UNUSED PORTIONS OF THE RUN. TOTAL LENGTH OF LINEAR DIFFUSER IS INDICATED ON THE FLOOR PLAN. CONTRACTOR TO PROVIDE TITUS 4" FL-TZ 1-SLOT LINEAR DIFFUSER WITH A 1" SLOT WIDTH WITH FBPI SUPPLY AIR PLENUMS, FBRI RETURN HOODS, AND FBBO BLANK-OFFS AS REQUIRED. REFER TO SCHEDULE ON SHEET M2.0 FOR ADDITIONAL INFORMATION.
16.	DEDICATED ELECTRICAL SPACE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT SIX FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURE, WHICHEVER IS LOWER, SHALL BE DEDICATED TO ELECTRICAL EQUIPMENT, NO PIPING FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE PERMITTED WITHIN THIS ZONE.
17.	CONTRACTOR TO INSTALL DAINTREE EXTERIOR WIRELESS TEMPERATURE SENSOR. MOUNT ON EXTERIOR WALL 10'-0" ABOVE GRADE.
18.	CONTRACTOR TO INSTALL DAINTREE WIRELESS DUCT TEMPERATURE SENSOR IN SUPPLY DUCT.
19.	CONTRACTOR TO PROVIDE AND INSTALL CABLE OPERATED DAMPER SIMILAR TO YOUNG REGULATOR MODEL 270-275 WITH 5020CC DAMPER. PROVIDE WITH BALANCING STATION IN ACCESSIBLE LOCATION ABOVE DROP CEILING.
20.	LINEAR SLOT FIXTURES ARE INTENDED TO HAVE A CONTINUOUS SEAMLESS APPEARANCE FOR THE FULL RUN OF THE DIFFUSER WITHOUT VISUAL DIFFERENTIATION BETWEEN SUPPLY AIR, RETURN AIR, AND UNUSED PORTIONS OF THE RUN. PROVIDE OPTIONAL MITERED CORNERS. TOTAL LENGTH OF LINEAR DIFFUSER SECTIONS INDICATED ON PLAN. CONTRACTOR TO PROVIDE TITUS 4" FL 1-SLOT LINEAR DIFFUSER WITH A 1" SLOT WIDTH WITH FBPI SUPPLY AIR PLENUMS, FBRI RETURN HOODS, AND FBBO BLANK-OFFS AS REQUIRED. REFER TO SCHEDULE ON SHEET M2.0 FOR ADDITIONAL INFORMATION.
21.	CONTRACTOR TO INSTALL LEAK DETECTOR IN DRAIN PAN OF WATER HEATER AND INTERLOCK WITH DAINTREE BMS.
22.	CONTRACTOR TO PROVIDE RELIEF OPENING IN WALL AT 8" A.F.F. PROVIDE GREENHECK MODEL #FD-100 FIRE DAMPER WITH 8" LONG SLEEVE AND GRILLE TABS. ALIGN FIRE DAMPER IN SLEEVE WITH WALL. ALSO PROVIDE WITH GREENHECK MODEL #ES-32 BACKDRAFT DAMPER MOUNTED WITHIN THE FIRE DAMPER SLEEVE. COORDINATE PENETRATION WITH OTHER WALL MOUNTED EQUIPMENT.
23.	CONTRACTOR TO PROVIDE LINE-VOLTAGE THERMOSTAT AND MOUNT DIRECTLY TO FAN HOUSING AND SET TO 85°F.
24.	CONTRACTOR TO PROVIDE 6" DIAMETER FIRE DAMPER GREENHECK MODEL #FDR-510 IN WALL PENETRATION.
25.	CONTRACTOR TO INSTALL DRAINTREE LEAK DETECTOR ON THE FLOOR IMMEDIATELY ADJACENT TO THE DATA RACK AND WIRED TO A WALL MOUNTED DAINTREE WIRELESS ADAPTER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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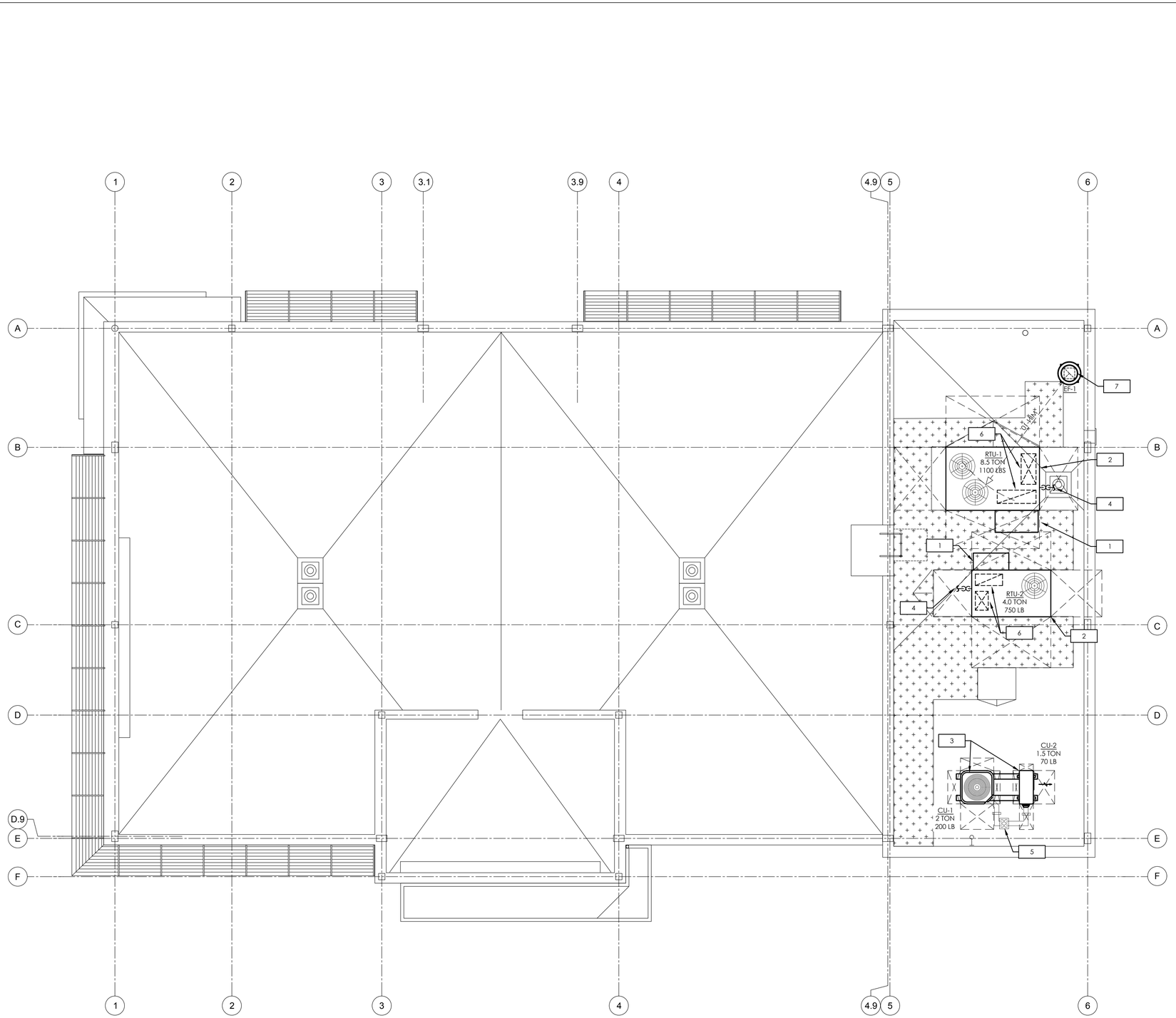
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

MECHANICAL FLOOR PLAN

SHEET NUMBER

M1.0



MECHANICAL ROOF PLAN | SCALE 1/4"=1'-0" | 1

MECHANICAL NOTES:

1.	MODULATING MOTORIZED OUTSIDE AIR DAMPER, DAMPER SHALL BE SET FOR OUTSIDE AIR QUANTITIES INDICATED IN VENTILATION SCHEDULE AND ROOFTOP A/C UNIT SCHEDULE ON M2.0.
2.	NEW ROOF MOUNTED A/C UNIT WITH MANUFACTURER'S ROOF CURB. FURNISH AND INSTALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES. PRIOR TO TURNOVER ALL UNITS SHALL HAVE ALL FILTERS REPLACED, COILS CLEANED, AND CONDENSER FINS COMBED STRAIGHT.
3.	PROPOSED LOCATION FOR SPLIT A/C SYSTEM REMOTE ROOF MOUNTED CONDENSING UNITS AND REFRIGERATION SUPPORT SYSTEM. PROVIDE A/C SUPPORT STAND. REFER TO DETAIL ON SHEET M3.0 FOR MORE INFORMATION.
4.	1" CONDENSATE DRAIN LINE. ROUTE TO NEAREST PRIMARY ROOF DRAIN AND TERMINATE WITH A MINIMUM 2" AIR GAP.
5.	REFRIGERATION LIQUID AND SUCTION LINES FROM ROOF MOUNTED CONDENSING UNITS. DOWN THRU ROOF TO ASSOCIATED EVAPORATOR COIL. PROVIDE WITH PIPE PORTAL AND 3/4" INSULATION ON REFRIGERANT PIPING. ALL EXPOSED EXTERIOR PIPE INSULATION TO RECEIVE ULTRAVIOLET RESISTANT PVC JACKET.
6.	SUPPLY AND RETURN AIR DUCTWORK DOWN THROUGH ROOF. ROUTE THROUGH ROOF JOISTS TO ABOVE CEILING SPACE. COORDINATE PENETRATIONS WITH STRUCTURAL BUILDING CONDITIONS AND ALL OTHER TRADES. TRANSITION AS REQUIRED. SEE SHEET M1.0 FOR CONTINUATION. PROVIDE SUPPLY AND RETURN AIR DUCT MAINS WITH MINIMUM 1" THICK DUCT LINER FOR THE FIRST 10'-0" FROM UNIT.
7.	ROOF MOUNTED EXHAUST FAN EF-1. MAINTAIN A MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKE OPENING. COORDINATE LOCATION WITH STRUCTURAL BUILDING CONDITIONS.

PIPE INSULATION

FINAL DESIGN OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE (INCH)		
	CONDUCTIVITY BTU in/(h ft2 x °F)	MEAN TEMP. RATING	<1	1-1 1/2	1 1/2 TO 4
			THICKNESS (IN)		
40-60	0.21-0.27	75	0.5	0.5	1.0
<40	0.20-0.26	50	0.5	1.0	1.0

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SHEET TITLE

MECHANICAL ROOF PLAN

SHEET NUMBER

M1.1

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

TAG	LOCATION	TYPE	MATERIAL	PATTERN	FACE SIZE	MANUFACTURER & MODEL NO.	GENERAL	REMARKS
A	CEILING	SUPPLY	ALUMINUM	4-WAY	24x24	TITUS OMNI-AA-NT	LAY-IN W/ DAMPER	1,2,3,4,9
B	CEILING	RETURN/ EXHAUST	ALUMINUM	-	24x24	TITUS 350FL	LAY-IN, OBD AG-15	1,2,3,6
C	CEILING	EXHAUST	ALUMINUM	-	12x12	TITUS 350FL	DUCT MOUNTED	1,2,3,6
D	CEILING	SUPPLY	ALUMINUM	HIGH-THROW	4"W-36"L	TITUS FL-TZ-DF	36" LONG PLENUM ON 1-SLOT LINEAR DIFFUSER WITH 1" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,5,8,9,10
E	CEILING	RETURN	ALUMINUM	HIGH-THROW	4"W-48"L	TITUS FL-TZ-DF	48" LONG PLENUM/HOOD ON 1-SLOT LINEAR DIFFUSER WITH 1" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,7,8,10
F	CEILING	SUPPLY	ALUMINUM	JET-THROW	4"W-48"L	TITUS FL-10	48" LONG PLENUM ON 1-SLOT LINEAR DIFFUSER WITH 1" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,5,9,13
G	CEILING	RETURN	ALUMINUM	JET-THROW	4"W-48"L	TITUS FL-10	48" LONG PLENUM/HOOD ON 1-SLOT LINEAR DIFFUSER WITH 1" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,7,13
H	CEILING	SUPPLY	ALUMINUM	HIGH-THROW	4"W-48"L	TITUS FL-10	48" LONG PLENUM ON 1-SLOT LINEAR DIFFUSER WIDTH 1" SLOT WIDTH. SEE PLANS FOR TOTAL LENGTH.	1,2,3,5,9,10,11
I	CEILING	RETURN	ALUMINUM	HIGH-THROW	4"W-48"L	TITUS FL-10	48" LONG PLENUM/HOOD ON 1-SLOT LINEAR DIFFUSER WIDTH 1" SLOT WIDTH. SEE PLANS FOR TOTAL LENGTH.	1,2,3,7,10,11
J	CEILING	SUPPLY	ALUMINUM	HIGH-THROW	6"W-48"L	TITUS FL-25	48" LONG PLENUM ON 1-SLOT LINEAR DIFFUSER WITH 2.5" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,5,9,13
K	CEILING	RETURN	ALUMINUM	HIGH-THROW	6W-48"L	TITUS FL-25	48" LONG PLENUM/HOOD ON 1-SLOT LINEAR DIFFUSER WITH 2.5" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,7,13
L	CEILING	SUPPLY	ALUMINUM	HIGH-THROW	6W-24"L	TITUS FL-25	24" LONG PLENUM ON 1-SLOT LINEAR DIFFUSER WITH 2.5" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,5,9,13
M	CEILING	RETURN	ALUMINUM	HIGH-THROW	6"W-24"L	TITUS FL-25	24" LONG PLENUM/HOOD ON 1-SLOT LINEAR DIFFUSER WITH 2.5" SLOT WIDTH. SEE PLAN FOR TOTAL LENGTH.	1,2,3,7,13
N	CEILING	SUPPLY	ALUMINUM	-	4"DIA. OPENING	AIR CONCEPTS ANR-04	SURFACE MOUNT AIR NOZZLE DIFFUSER WITH CORE	1,2,3,9,12
O	WALL	TRANSFER	ALUMINUM	-	12"W-8"H	TITUS 350FL	WALL MOUNTED TRANSFER GRILLE	2,3

REMARKS:
1. COORDINATE WITH LIGHTS FOR EXACT LOCATIONS OF ALL AIR DEVICES.
2. COORDINATE FRAME STYLES WITH CEILING OR WALL SYSTEM.
3. N.C. VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 30, WITH A ROOM ABSORPTION RATE OF 10db.
4. PROVIDE BACK SIDE OF SUPPLY AIR DEVICES WITH FACTORY INSTALLED R-6 INSULATION BLANKET.
5. PROVIDE WITH TITUS INSULATED PLENUM, MODEL NO. FBPI, FOR LINEAR SUPPLY DIFFUSERS.
6. ALL LAY-IN RETURN GRILLES SHALL BE FULL-FACE AND PROVIDED WITH MAXIMUM NECK SIZE. CONTRACTOR TO THEN TRANSITION MAXIMUM NECK SIZE TO RETURN DUCT SIZE INDICATED ON PLANS.
7. PROVIDE WITH TITUS INSULATED RETURN HOOD/LIGHT SHIELD MODEL NO. FBRI ON ENTIRE LENGTH OF DIFFUSER.
8. PROVIDE WITH DF BORDER AND HANGER CLIPS.
9. PROVIDE DAMPER AT TAKE-OFF TO DEVICE
10. PROVIDE WITH TITUS STRAIGHT END BOARDER AND TITUS END CAPS AT THE END OF ALL RUNS.
11. PROVIDE WITH BORDER TYPE 66 AND ASSOCIATED WC4, SS1, UHC CLIPS, AND MITERED CORNERS.
12. PROVIDE WITH COUNTER SUNK SCREW HOLES.
13. PROVIDE WITH BORDER TYPE 16 WITH SC1 AND UHC HANGER CLIPS.

FAN SCHEDULE

TAG	SERVICE	LOCATION	CFM	MANUF. - MODEL	ESP (W.C)	DRIVE	TYPE	ELECTRICAL HP	V.	Ø	Hz	WEIGHT (LBS)	REMARKS
EF-1	EXHAUST	ROOF	375	GREENHECK- G-090-VG	0.375	DIRECT	CENT.	1/10	115	1	60	22	1-4
EF-2	EXHAUST	DATA ROOM	200	GREENHECK- SP-B200	0.15	DIRECT	CENT.	1/4	115	1	60	17	2,5,6,7

REMARKS:
1. PROVIDE WITH THE FOLLOWING:
   A. BD-100 GRAVITY BACKDRAFT DAMPER
   B. NEMA 1 DISCONNECT SWITCH MOUNTED ON SUPPORT PAN WITHIN FAN HOUSING.
   C. 12" ROOF CURB
2. PROVIDE WITH THERMAL OVERLOAD PROTECTION
3. PROVIDE VARIABLE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS. T & B CONTRACTOR SHALL MARK BALANCED POSITION ON CONTROLLER.
4. FOR EXHAUST FAN CONTROL, PROVIDE 4-WAY CONTROL CIRCUIT BY ONE OCCUPANCY SENSOR IN EACH RESTROOM, ONE OCCUPANCY SENSOR IN THE JANITORS CLOSET, AND ONE TIMER IN THE LOUNGE. REFER TO ELECTRICAL DRAWINGS FOR EXHAUST FAN CONTROL DIAGRAM.
5. PROVIDE WITH LINE VOLTAGE THERMOSTAT AND ATTACH DIRECTLY TO THE FAN HOUSING, SET TO 85°F.
6. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
7. PROVIDE WITH VIBRATION ISOLATION KIT AND MOUNTING BRACKETS.

CONDENSING UNIT SCHEDULE

TAG	SERVICE	LOCATION	COOLING CAPACITY (TONS)	MANUF. - MODEL	ELECTRICAL V.	Ø	Hz	MCA	MOCP	WEIGHT (LBS)	AHRI RATING (EER/SEER)	REMARKS
CU-1	FCU-1	ROOF	2.0	CARRIER - 24ABC624A003	208	1	60	17	30	200	13.0/16.0	1,2
CU-2	FCU-2	ROOF	1.5	CARRIER- 38MHRC18A	208	1	60	15	20	70	10.5/17.0	1,2

REMARKS:
1. PROVIDE THERMAL OVERLOAD PROTECTION.
2. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, IF NOT FACTORY-INSTALLED.

VENTILATION AIR SCHEDULE

ZONE	ROOM	OCCUPANCY	AREA (SQ. FT.)	NUMBER OF OCCUPANTS	PEOPLE OUTDOOR AIRFLOW RATE (CFM/ OCC.)	AREA OUTDOOR AIRFLOW RATE (CFM/SQ. FT.)	REQUIRED OUTDOOR AIRFLOW RATE (CFM)	PROVIDED OUTSIDE AIRFLOW RATE (CFM)	SYSTEM OUTDOOR AIRFLOW RATE (CFM)	PROVIDED EXHAUST AIRFLOW RATE (CFM)
RTU-1	120 LOBBY/ 119 LIVING ROOM	LOBBIES	877	9	5	0.06	122	125	360	-
	121 DRT	LOBBIES	222	0	5	0.06	17	20		-
	101 PCS 1	OFFICE SPACE	103	3	5	0.06	26	30		
	102 PCS 2	OFFICE SPACE	94	3	5	0.06	26	30		
	103 BOOTH	OFFICE SPACE	38	3	5	0.06	22	25		-
	104 BOOTH	OFFICE SPACE	38	3	5	0.06	22	25		-
	105 BOOTH	OFFICE SPACE	38	3	5	0.06	22	25		-
	106 CONFERENCE	OFFICE SPACE	118	6	5	0.06	46	50		-
	107 PCS 7	OFFICE SPACE	93	3	5	0.06	26	30		-
RTU-2	108 PCS 8	OFFICE SPACE	90	3	5	0.06	26	30	170	-
	109 PRINT/FILE	OFFICE SPACE	94	0	5	0.06	7	10		-
	110 UNISEX	TOILET ROOM	65	1	0	0	0	0		75
	111 UNISEX	TOILET ROOM	65	1	0	0	0	0		75
	112 CORRIDOR	CORRIDOR	88	0	5	0.06	7	10		-
	113 LOUNGE	OFFICE SPACE	218	5	5	0.06	48	50		150
	114 JANITOR CLOSET	UNOCCUPIED SPACE	27	0	0	0	0	0		75
	116 CASH	OFFICE SPACE	56	1	5	0.06	10	15		
	117 LTOS	OFFICE SPACE	280	1	5	0.06	27	30		
	118 MANUAL TRANSACTION	OFFICE SPACE	102	2	5	0.06	20	25		
FCU-1	100 TRANSACTION VESTIBULE	UNOCCUPIED SPACE	192	0	0	0	0	0	-	-
FCU-2	115 DATA ROOM	UNOCCUPIED SPACE	67	0	0	0	0	0	-	-
						TOTALS	472	530	530	375

DESIGN SUMMER CONDITIONS: 93.6°F D.B. / 74.3°F W.B.
DESIGN WINTER CONDITIONS: 12.3°F D.B.

ROOF TOP AIR CONDITIONING UNITS

TAG	SERVICE	TYPE	CFM	TONS	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SENSIBLE (MBH)	HEATING CAPACITY INPUT (MBH)	HEATING CAPACITY OUTPUT (MBH)	HEATING EFFICIENCY (%)	OUTDOOR AIR (CFM)	ESP. (IN W.C.)	IFM TYPE	ELECTRICAL V.	Ø	Hz	MCA	MOCP	WEIGHT (LBS)	HEIGHT (IN)	CARRIER MODEL	AHRI RATING (EER/SEER/IEER)	REF/ CHARGE	REMARKS
RTU-1	SEE PLANS	ROOF TOP	3,400	8.5	103.6	81.0	224	184	82	360	1.5	HIGH	208	3	60	50	60	1,323	49-3/8"	48HCFD09	12.0/-/13.8	R-410A/ 15 LB - 2 OZ (2)	1-13
RTU-2	SEE PLANS	ROOF TOP	1,600	4.0	50.0	37.1	150	120	80	170	1.0	MED	208	3	60	30	40	860	33-3/8"	48GCFN05	12.0/16.0/-	R-410A/ 14 LB - 8 OZ	1-13

REMARKS

1. PROVIDE WITH 14" TALL ROOF CURB.
2. PROVIDE WITH ELECTROMECHANICAL CONTROLS. DAINTREE TO PROVIDE WI-FI COMMUNICATING THERMOSTATS AND ASSOCIATED SENSORS.
3. PROVIDE THRU-THE-BASE SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED STARTER. DISCONNECT TO BE PROVIDED BY DIVISION 26.
4. PROVIDE FACTORY-INSTALLED POWERED CONVENIENCE OUTLET.
5. PROVIDE DUCT MOUNTED CO2 SENSORS AS INDICATED ON PLAN.
6. PROVIDE 5-YEAR COMPRESSOR AND HEAT EXCHANGER WARRANTY.
7. UNIT SHALL BE U.L TESTED AND CERTIFIED IN ACCORDANCE WITH ANSI Z21.47.
8. PROVIDE FILTERS THAT BEAR THE LABEL OF AN APPROVED AGENCY.
9. PROVIDE CONDENSATE PIPE DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE CONDENSER COIL HAIL GUARD GRILLE.
11. PROVIDE WATER-LEVEL MONITORING DEVICE (FLOAT SWITCH). DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN AND SHALL BE INTERLOCKED TO SHUT DOWN UNIT. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
12. PROVIDE WITH STANDARD TEMPERATURE LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF. ECONOMIZER CONTROLLER SHALL HAVE ON-BOARD FAULT DETECTION AND DIAGNOSTIC CAPABILITY.
13. PROVIDE EQUIPMENT MANUFACTURERS START-UP SERVICE.

CARRIER NATIONAL ACCOUNT NOTE:

JPMC HAS A CARRIER CORPORATION NATIONAL ACCOUNT. CONTACT CARRIER NATIONAL ACCOUNTS 315.432.7634 FOR QUOTATION AND TO ARRANGE PURCHASE AND DELIVERY.

FAN COIL UNIT SCHEDULE

TAG	SERVICE	LOCATION	SUPPLY AIR (CFM)	ESP (IN. W.C.)	COOLING COIL TOTAL CAPACITY (MBH)	COOLING COIL SENSIBLE CAPACITY (MBH)	HEATING COIL CAPACITY (kW)	ELECTRICAL V.	Ø	Hz	MCA	MOCP	WEIGHT (LBS)	MANUF. - MODEL	REMARKS
FCU-1	VESTIBULE	CEILING	800	0.35	24.0	14.0	5.0	208	1	60	26	30	122	CARRIER - FX4DNF025	1,2,3,5,7,8,9
FCU-2	DATA ROOM	WALL	500	-	18.0	13.2	-	208	1	60	-	-	32	CARRIER - 40MHHC18	1,2,3,4,5,6,7

REMARKS:
1. PROVIDE THERMAL OVERLOAD PROTECTION.
2. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, IF NOT FACTORY-INSTALLED.
3. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. UNIT TO BE CONTROLLED VIA DAINTREE THERMOSTAT AND ASSOCIATED TEMPERATURE SENSOR. PROVIDE WITH 24V INTERFACE KIT FOR DAINTREE INTEGRATION.
5. PROVIDE REFRIGERANT PIPING SIZED PER MANUFACTURER'S RECOMMENDATIONS. "ACR" COPPER ONLY.
6. INDOOR UNIT ELECTRICALLY FED FROM OUTDOOR UNIT.
7. PROVIDE WITH CONDENSATE PUMP.
8. FAN COIL UNIT TO BE INTERLOCKED WITH BUILDING MANAGEMENT SYSTEM (BMS) BY DAINTREE. FAN COIL UNIT TO BE CONNECTED TO DAINTREE THERMOSTAT.
9. PROVIDE WATER-LEVEL MONITORING DEVICE (FLOAT SWITCH). DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN AND MOUNT IN AUXILIARY DRAIN PORT. DEVICE SHALL BE INTERLOCKED TO SHUT DOWN THE UNIT. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE ARE NOT PERMITTED.

SEQUENCE OF OPERATIONS

OCCUPIED AND UNOCCUPIED OPERATION

THE TEMPERATURE CONTROL SYSTEM SHALL BE SET FOR OCCUPIED AND UNOCCUPIED HOURS. DURING THE OCCUPIED HOURS, THE SPACE SHALL BE MAINTAINED AT 72°F (ADJ.) IN THE COOLING MODE AND 70°F (ADJ.) IN THE HEATING MODE. DURING UNOCCUPIED PERIODS, THE SPACE TEMPERATURE SHALL MAINTAIN 75°F (ADJ.) IN THE COOLING MODE AND 65°F (ADJ.) IN THE HEATING MODE.

RTU-1 AND RTU-2:

UPON RECEIVING A SIGNAL FROM THE TEMPERATURE CONTROL SYSTEM FOR OCCUPIED HOURS, THE RTU FAN SHALL ENERGIZE AND REMAIN ON DURING OCCUPIED HOURS. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED FOR MORNING WARM-UP UNTIL THE OCCUPIED HOURS ARE REACHED, AND THEN WILL OPEN TO ITS MINIMUM POSITION.

THE TEMPERATURE CONTROL SYSTEM SHALL MAINTAIN THE COOLING AND HEATING SETPOINTS. UPON SENSING AN AVERAGE TEMPERATURE RISE OF 0.5°F ABOVE COOLING SETPOINT AND WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 55°F, THE MODULATING DAMPER WILL MODULATE THE OUTDOOR AIR DAMPER AND RETURN AIR DAMPER AND THE RELIEF DAMPER WILL BE OPENED.

THE CO2 SENSORS SHALL MONITOR THE AMOUNT OF CO2 IN EACH REGULARLY OCCUPIED SPACE. WHEN THE AMOUNT OF CO2 REACHES A PRESET LIMIT, THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION. THE DAMPER SHALL MODULATE OPEN IN STEPS AS THE AMOUNT OF CO2 IN THE SPACE INCREASES UNTIL THE AMOUNT OF OUTSIDE AIR HAS REACHED ITS MAXIMUM. THE OUTSIDE AIR DAMPER SHALL STAY AT ITS MAXIMUM UNTIL THE CO2 SENSOR REGISTERS A DROP IN CO2. THE OUTSIDE AIR DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS. IF CO2 LEVELS DO NOT DROP, AN ALARM SHALL SOUND.

24-HOUR VESTIBULE (FCU-1):

THE TEMPERATURE CONTROL SYSTEM SHALL BE SET FOR THE SPACE TO BE MAINTAINED AT 72°F (ADJ.) IN THE COOLING MODE AND 70°F (ADJ.) IN THE HEATING MODE, 24 HOURS A DAY.

DAINTREE HVAC CONTROLS

ENTIRE MECHANICAL SYSTEM SHALL BE INTERLOCKED WITH BUILDING MANAGEMENT SYSTEM (BMS) BY DAINTREE. CONTRACTOR TO INSTALL WIRELESS TEMPERATURE SENSORS SERVING CORRESPONDING UNITS IN LOCATIONS SHOWN ON PLANS. CONTRACTOR TO INSTALL THERMOSTATS SERVING CORRESPONDING UNITS IN LOCATIONS SHOWN ON PLANS. CONTRACTOR TO ROUTE ALL LOW VOLTAGE WIRING FROM THERMOSTAT TO CORRESPONDING MECHANICAL UNIT.

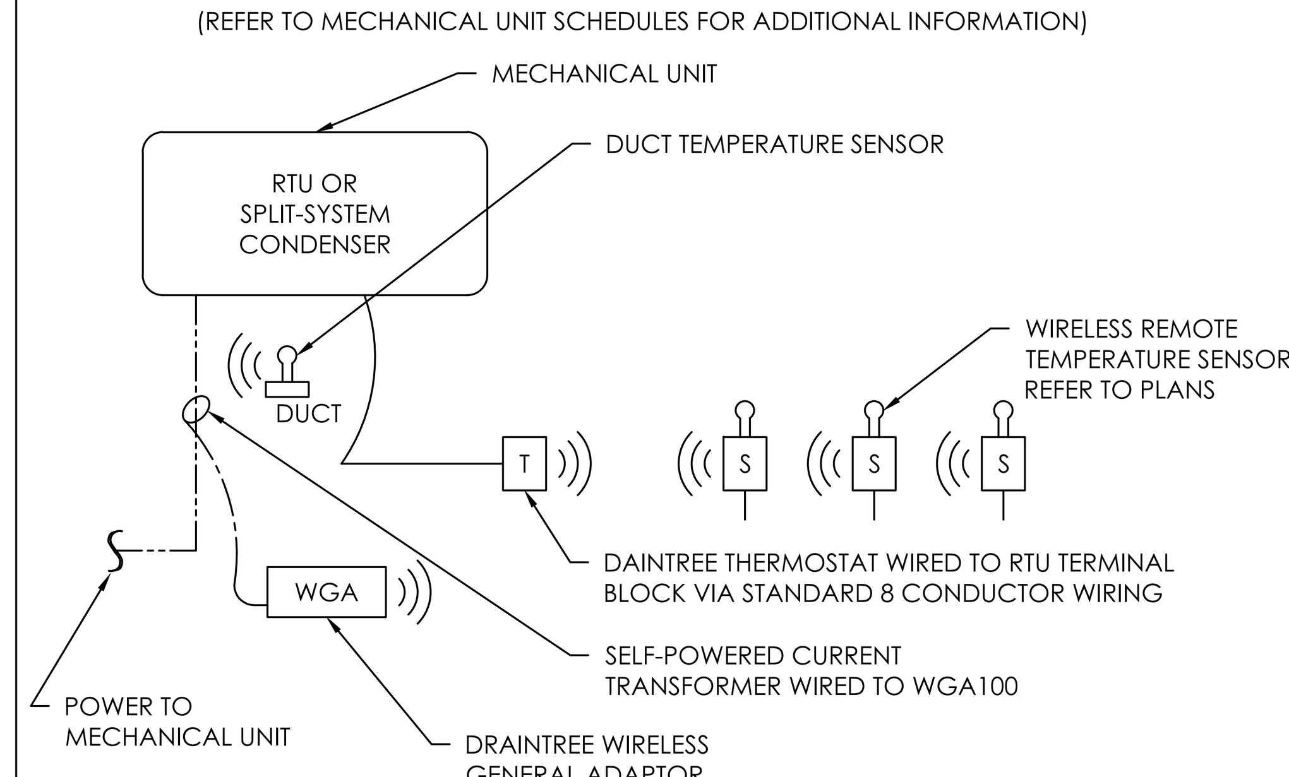
ELECTRIC CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE AND PROCUREMENT OF ALL DAINTREE COMPONENTS FOR A COMPLETE BMS. MECHANICAL CONTRACTOR TO COORDINATE ALL REQUIRED COMPONENTS AND PARTS WITH ELECTRICAL CONTRACTOR PRIOR TO PROCUREMENT TO ENSURE ONLY ONE ORDER IS PLACED.

GENERAL NOTES:
1. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCH POWER. #WSA10 WIRE SENSOR ADAPTERS REQUIRE 24V POWER.
2. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
3. FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (#WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE #WSA10 MUST BE RECORDED. THE SPECIFIC #WSA10 PORT ALSO BE RECORDED PER SENSOR.
4. DURING WIRELESS ADAPTER INSTALLATION, FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER:
   4.1. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
   4.2. RESET ADAPTER (ALL ADAPTERS)
   4.3. PERFORM PROPER TEST SUITE
5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE.
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALL OF DAINTREE AND RELATED COMPONENTS PERTAINING TO IT/DATA, LIGHTING, POWER AND HVAC.

CONTROL SCOPE COMMISSIONING:
1. CONTRACTOR IS RESPONSIBLE FOR CORRECT WIRING, TESTING, AND DOCUMENTATION OF ALL IEEE DEVICE ADDRESSES IN A FORMAT REQUIRED BY THE CONTROLS SUPPLIER.
2. CONTRACTOR TO RESPONSIBLE FOR COORDINATING EFFORTS WITH THE CONTROLS PROVIDER TO SATISFY THE CONSTRUCTION TIMELINE.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIELD LABOR ASSISTANCE TO FACILITATE THE COMMISSIONING EFFORT, INCLUDING BUT NOT LIMITED TO REPAIRING INCORRECT WIRING, LOCATING DEVICES WHERE THE ADDRESSES WERE NOT DOCUMENTED OR NOT LOCATED PROPERLY, AND RESETTING DEVICES.

TYPICAL MECHANICAL EQUIPMENT BMS SCHEMATIC - SINGLE ZONE

(REFER TO MECHANICAL UNIT SCHEDULES FOR ADDITIONAL INFORMATION)



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ENGINEER OF RECORD

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

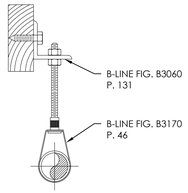
PROJECT NO:	JPM.27135.001
DATE:	
PROTOTYPE:	**20.2**
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M2.0

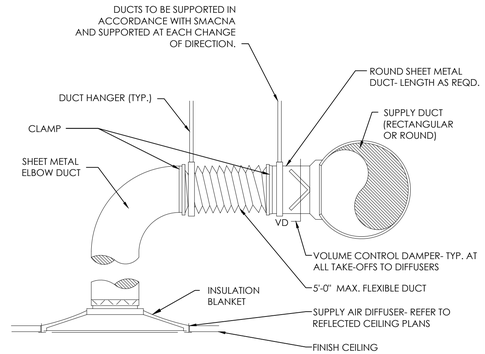


NOTES:

1. SIZE HANGER AND CLAMP TO ADEQUATELY SUPPORT LOAD (REFER TO B-LINE HANGER CATALOG).
2. FOR NFPA ROD SIZES USE B3170NF OR SUBSTITUTEB3174.
3. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3170CT, FELT LINED B3170F, OR PLASTIC COATED HANGERS.

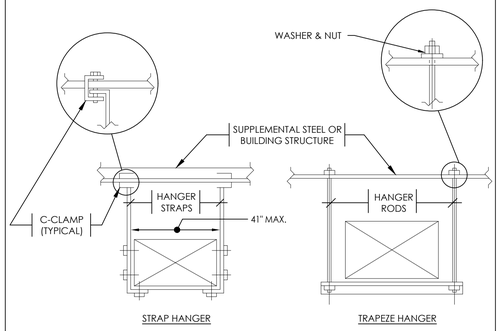
PIPE HANGING INSTALLATION

SCALE	
NTS	1



SUPPLY AIR TERMINAL

SCALE	
NTS	2

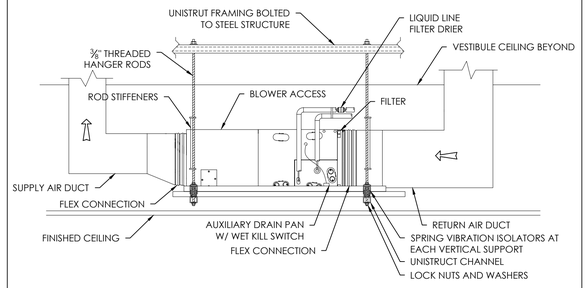


NOTES

1. NO POP RIVETS ALLOWED, USE SELF-TAPPING SWEET METAL SCREWS ONLY.

TYPICAL DUCT HANGING

SCALE	
NTS	3

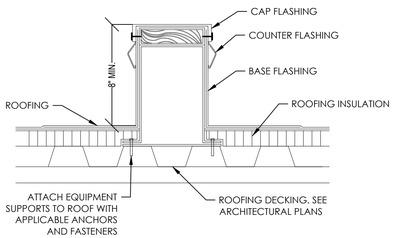


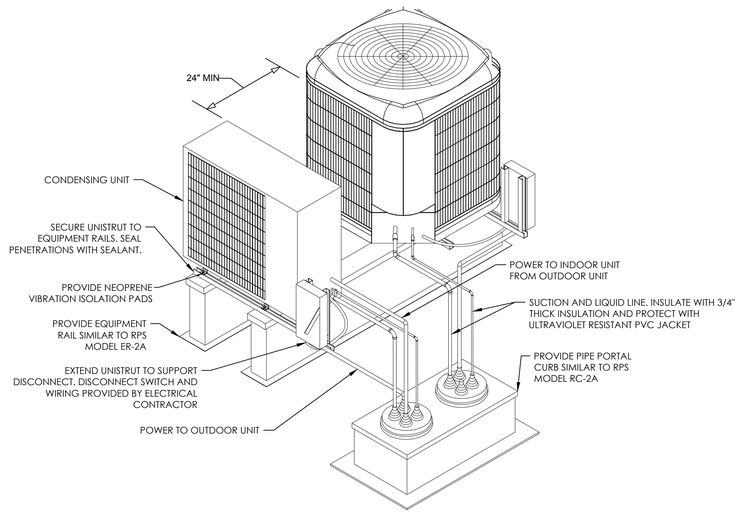
FAN COIL HANGING UNIT DETAIL

SCALE	
NTS	4

NOTES:

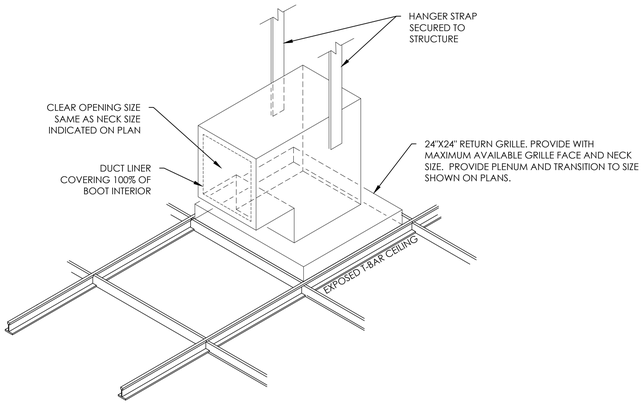
1. PROVIDE AND INSTALL LIQUID LINE SPECIALTIES IF NOT FACTORY INSTALLED.
2. PROVIDE OPERATION AND MAINTENANCE CLEARANCES AROUND ALL EQUIPMENT AS SPECIFIED BY THE MANUFACTURER.
3. OUTDOOR UNIT SHALL BE EQUIPPED WITH ISOLATION VALVES.
4. DISCONNECT SWITCHES SHALL NOT BE MOUNTED DIRECTLY ON UNITS. DISCONNECTS TO BE SUPPORTED BY UNISTRUT.
5. CONTRACTOR TO COORDINATE EQUIPMENT RAILS SIZE AND SPACING WITH EQUIPMENT MOUNTING LOCATIONS.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE).





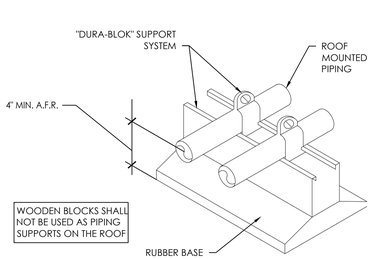
CONDENSING UNIT STAND DETAIL

SCALE	
NTS	5



RETURN BOOT DETAIL

SCALE	
NTS	6

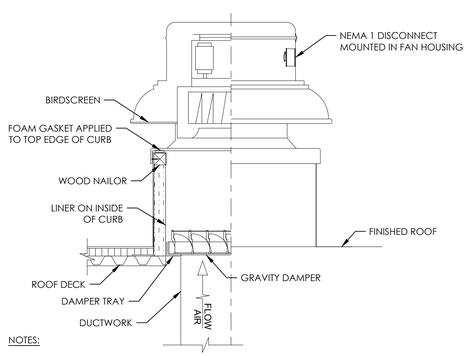


NOTES

1. SUPPORTS SHALL BE INSTALLED A MAXIMUM 8'-0" O.C. AND AT EACH CHANGE OF DIRECTION OF PIPING.

ROOF PIPE SUPPORT

SCALE	
NTS	7

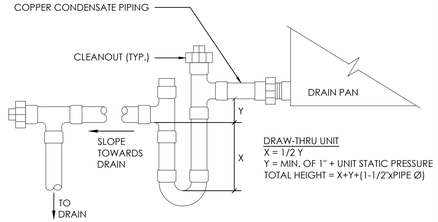


NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL ROOF PENETRATIONS ARE IN ACCORDANCE WITH THE ROOFING SYSTEM WARRANTY (WHERE APPLICABLE).

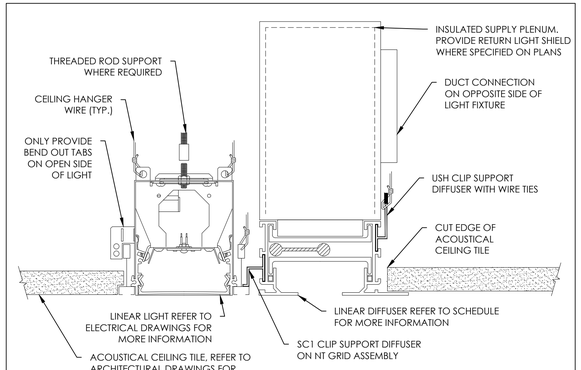
ROOF MOUNTED EXHAUST FAN DETAIL

SCALE	
NTS	8



CONDENSATE DRAIN TRAP

SCALE	
NTS	9



LINEAR DIFFUSER INSTALLATION

SCALE	
NTS	10

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER PE-2013031214
PROFESSIONAL ENGINEER
01/05/2020

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	
PROTOTYPE:	**20.2**
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M3.0

PLUMBING FIXTURE SCHEDULE:

MARK	ITEM: DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT
P-1	WATER CLOSET (PF-WC): KOHLER HIGHLINE MODEL# K-3519 OR 3519-RA TWO-PIECE FLOOR MOUNTED VITREOUS CHINA TOILET WITH ELONGATED BOWL, PRESSURE ASSISTED 1.0 GPF FLUSH, AND POLISHED CHROME TRIP LEVER. CONTRACTOR TO COORDINATE MODEL NUMBER TO POSITION FLUSH LEVER ON ADA ACCESSIBLE SIDE OF THE WATER CLOSET; SEAT: KOHLER MODEL #K-4670-CA SOLID ELONGATED PLASTIC OPEN FRONT LESS COVER; SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLY WITH LOOSE KEY STOP.	1/2"	-	4"	2"
P-2	LAVATORY (PF-LAV): AMERICAN STANDARD LUCERNE MODEL# 0356.137 OR 0356.115 WALL MOUNTED 20-1/2" X 18-1/4" VITREOUS CHINA SINK WITH FRONT OVERFLOW, SELF DRAINING DECK, FAUCET LEDGE, AND HOLES FOR CONCEALED ARM SUPPORT. CONTRACTOR TO COORDINATE MODEL NUMBER TO POSITION EXTRA SOAP DISPENSER HOLE ON THE ADJACENT WALL-SIDE OF THE LAVATORY; FAUCET: OPTIMA# EAF-200-PLG-ISM-CP WITH PLUG ADAPTER POWER SUPPLY, INTEGRATED SIDE MIXER, POLISHED CHROME FINISH, .5 GPM AERATED SPRAY, AND INFRARED SENSOR; STRAINER: AMERICAN STANDARD 2411.015 1-1/4" POLISHED CHROME GRID DRAIN AND TAILPIECE; P-TRAP: 1-1/4" X 12" CHROME PLATED 17 GAUGE W/TAILPIECE AND CLEANOUT SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS; CARRIER: WATTS MODEL# TCA-411-D BACK TO BACK FLOOR MOUNTED CONCEALED LAVATORY CARRIER; PIPE COVERS: LAV GUARD MODEL# 102 E-Z WASTE AND SUPPLY COVERS; THERMOSTATIC MIXING VALVE (TMV): SYMMONS MODEL# 7-210-CK MOUNTED BELOW LAVATORY AND SET FOR A MAXIMUM MIXED TEMP OF 105°F.	1/2"	1/2"	2"	1-1/2"
P-3	LOUNGE SINK (PF-SINK): ELKAY MODEL# LRAD202255-MR2 SINGLE COMPARTMENT 19-1/2" X 22" X 5-1/2" DEEP 18 GAUGE STAINLESS STEEL; FAUCET: ELKAY MODEL# LK3000CR DECK MOUNTED FAUCET WITH REMOTE LEVER HANDLE, 8" SPOUT REACH, 2.2 GPM REGULATOR, AND CHROME FINISH; SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH WHEEL HANDLE STOP; STRAINER: ELKAY MODEL# LK99 CHROME PLATED STAINLESS STEEL STRAINER BASKET; P-TRAP: 1-1/2" PVC W/ CLEANOUT; THERMOSTATIC MIXING VALVE (TMV): SYMMONS #7-210-CK MOUNTED BELOW LAVATORY AND SET FOR A MAXIMUM MIXED TEMP OF 105°F.	1/2"	1/2"	2"	1-1/2"
P-4	MOP SINK (PF-MOP): MUSTEE MODEL# 63M FLOOR MOUNTED, FIBERGLASS SERVICE SINK; FAUCET: MUSTEE MODEL #63.600A DUAL HANDLE FAUCET WITH TOP REINFORCING BAR, PAIL HOOK, VACUUM BREAKER, THREADED SPOUT AND CHROME PLATED FINISH; ACCESSORIES: MUSTEE MODEL #65.700 HOSE & HOSE HOLDER AND MUSTEE MODEL #65.600 MOP HANGER. REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR MOP SINK SIDE PANELS.	3/4"	3/4"	3"	2"
P-5	ELECTRIC WATER COOLER (PF-DF): ELKAY MODEL# EZSTL8WSSK BI-LEVEL WALL MOUNTED ADA COOLER WITH ALL STAINLESS STEEL FINISH, FRONT AND SIDE PUSHBAR, FLEXIBLE ANTI-MICROBIAL SAFETY BUBBLER, AND EZH20 BOTTLE FILLING STATION. BOTTLE FILLING STATION TO BE INSTALLED ON LOW SIDE OF WATER COOLER. SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH LOOSE KEY STOP; CARRIER: FLOOR MOUNTED IN WALL CARRIER MOUNTING SYSTEM.	1/2"	-	2"	1-1/2"
P-6	EXTERIOR WALL HYDRANT (PF-WHB): WOODFORD MODEL# B65-CH WITH STANDARD CHROME FINISH, AUTOMATIC ANTI-SIPHON VACCUM BREAKER, 3/4" CONNECTION, AND BRASS FACE WITH INTEGRAL VACUUM BREAKER. MOUNT 18" ABOVE GRADE.	3/4"	-	-	-
P-7	ROOFTOP HOSE BIBB (PF-RHB): WOODFORD MODEL# SRH-MS COMPLETE, COMMERCIAL ROOF HYDRANT WITH VACUUM BREAKER BACKFLOW PREVENTER, 3/4" CONNECTION	3/4"	-	-	-
RD1	ROOF DRAIN (PF-RD1): ZURN MODEL# ZC100-DP-VP 15" DIAMETER ROOF DRAIN WITH DURA-COATED CAST IRON BODY, BOTTOM OUTLET, TOP-SET DECK PLATE, VANDAL PROOF SECURED TOP, AND LOW SILHOUUETTE CAST IRON DOME. PROVIDE PERIMETER BLOCKING TO RAISE THE DECK PLATE TO THE ROOFING LEVEL.	-	-	SEE DRAWINGS	-
ORD	OVERFLOW ROOF DRAIN (PF-OD1): ZURN MODEL# ZC100-DP-VP-89 15" DIAMETER ROOF DRAIN WITH DURA-COATED CAST IRON BODY, BOTTOM OUTLET, 2" EXTERNAL WATER DAM, TOP-SET DECK PLATE, VANDAL PROOF SECURED TOP, AND LOW SILHOUUETTE CAST IRON DOME. PROVIDE PERIMETER BLOCKING TO RAISE THE DECK PLATE TO THE ROOFING LEVEL.	-	-	SEE DRAWINGS	-
DNZ	DOWNSPOUT NOZZLE (PF-DN1): ZURN MODEL# ZANB199-SS DOWNSPOUT NOZZLE. PROVIDE WITH NICKEL BRONZE BODY, REMOVABLE STAINLESS SCREEN, AND DECORATIVE WALL FLANGE.	-	-	SEE DRAWINGS	-
DNB	DOWNSPOUT SHOE: PIEDMONT MODEL# SG-2.5X3-12 CUSTOM DOWNSPOUT WITH 2.5" x 3" INLET, 3" OUTLET, 12" BODY LENGTH	-	-	SEE DRAWINGS	-
FD	FLOOR DRAIN (PF-FD): ZURN MODEL# ZN415S-Y FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, ADJUSTABLE COLLAR, AND HEEL PROOF NICKEL BRONZE TOP. PROVIDE WITH SQUARE 5x5 STRAINER. SEDIMENT BUCKET, AND TRAP SEAL SIMILAR TO JAY R. SMITH 2692-04 (WHERE ACCEPTABLE BY LOCAL CODES).	-	-	SEE DRAWINGS	-
GCO	GRADE CLEANOUT (PF-GCO): ZURN MODEL# ZN1400 ADJUSTABLE CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND SCORIATED COVER. NOTE: LOCATION OF THIS CLEANOUT FOR TYPE OF DUTY REQUIRED FOR THE COVER.	-	-	SEE DRAWINGS	-
WCO	WALL CLEANOUT (PF-WCO): ZURN MODEL# Z1446 DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT TAPERED THREAD PLUG, SMOOTH ROUND STAINLESS STEEL COVER, AND SECURING SCREW.	-	-	SEE DRAWINGS	-
FCO	FLOOR CLEANOUT (PF-FCO): ZURN MODEL# ZN1400 ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND SCORIATED COVER.	-	-	SEE DRAWINGS	-
EWH	ELECTRIC WATER HEATER (PF-WH): A.O. SMITH MODEL# DEL-10 ENERGY SAVER, 18" DIA x 18" H, 10 GALLON LINED TANK, ONE 3000 WATT ELEMENT 208/1/60, 20 AMP BREAKER. PROVIDE WITH WALL SUPPORT BRACKET HOLDRITE MODEL# 40-SWHP-W. ELECTRICAL CONTRACTOR TO PROVIDE DAINTREE LEAK DETECTOR WITH REMOTE SPOT SENSOR ACCESSORY. MOUNT DETECTOR ON WALL AND MOUNT REMOTE SENSOR IN OVERFLOW PAN.	3/4"	3/4"	-	-
WHA	WATER HAMMER ARRESTORS: SIOUX CHIEF MODEL#660 SERIES PISTON TYPE TYPE L COPPER TUBE	-	-	-	-
BFP	BACKFLOW PREVENTER: WATTS MODEL# LF7C LEAD FREE DUAL CHECK VALVE FOR WATER DISPENSER AND COFFEE MAKER.	SEE DRAWINGS	-	-	-
RPZ-1	BUILDING REDUCED PRESSURE ZONE ASSEMBLY: WATTS MODEL# LF009M2QT LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY WITH INTERNAL PRESSURE DIFFERENTIAL RELIEF VALVE, ISOLATION VALVES, TEST PORTS, AND AIR GAP DRAIN FITTING.	SEE DRAWINGS	-	-	-
RPZ-2	IRRIGATION REDUCED PRESSURE ZONE ASSEMBLY: WATTS MODEL# LF009M2QT LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY WITH INTERNAL PRESSURE DIFFERENTIAL RELIEF VALVE, ISOLATION VALVES, TEST PORTS, AND AIR GAP DRAIN FITTING.	SEE DRAWINGS	-	-	-

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BOT	BOTTOM
CD	CONDENSATE DRAINAGE
CP	CHROME PLATED
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
DNZ	DOWNSPOUT NOZZLE
D	DRAIN
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FC	FAN COIL
FD	FLOOR DRAIN
FL	FLOOR
GCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HW	HOT WATER
INV	INVERT (VERIFY IN FIELD)
MAX	MAXIMUM
MIN	MINIMUM
ORD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
RWL	RAINWATER LEADER
S	SANITARY
ST	STORM DRAIN
S.ST	SECONDDARY STORM DRAIN
W/TPC	WITH TRAP PRIMER CONNECTION
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VENT
VO	VALVED OUTLET
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEANOUT

PIPING

- NEW COLD WATER PIPING
- NEW HOT WATER PIPING
- NEW HOT WATER RETURN PIPING
- NEW SANITARY AND/OR WASTE PIPING
- NEW VENT PIPING
- NEW PRIMARY STORM WATER PIPING (ST)
- NEW SECONDARY STORM WATER PIPING (SST)
- NEW CONDENSATE DRAIN PIPING (CD)
- NEW GAS PIPING (G)
- HAMMER ARRESTOR (PDI SIZE INDICATED) (A)
- CLEANOUT IN FLOOR
- GRADE CLEANOUT
- FLOOR DRAIN
- ROOF DRAIN (PRIMARY) (RD)
- ROOF DRAIN (SECONDARY) (RD)
- WALL CLEANOUT EXPOSED
- VALVE IN RISER
- DIRECTION OF FLOW
- TOP CONNECTION, 45 OR 90 DEG.
- BOTTOM CONNECTION, 45 OR 90 DEG.
- SIDE CONNECTION
- CAPPED OUTLET
- DROP IN PIPING
- RISE IN PIPING
- HOSE BIBB
- BALL VALVE

ISOMETRIC SYMBOLS

- VENT THRU ROOF
- WATER CLOSET
- WALL CLEANOUT
- LAVATORY AND/OR SINK
- GRADE OR FLOOR CLEANOUT
- FLOOR DRAIN
- FLOOR DRAIN WITH TRAP PRIMER CONNECTION

DRAWING SYMBOLS

- POINT OF CONNECTION
- POINT OF DISCONNECTION
- KN — KEYED NOTES

PIPE MATERIAL SCHEDULE

SERVICE	APPLICATION	PIPE MATERIAL
DOMESTIC WATER	ABOVE GRADE	TYPE "L" HARD DRAWN COPPER
	BELOW GRADE	TYPE "K" HARD DRAWN COPPER
SANITARY	ABOVE GRADE	HUBLESS CAST IRON
	BELOW GRADE	SCH. 40 PVC OR CAST IRON
STORM	ABOVE GRADE	HUBLESS CAST IRON
	BELOW GRADE	SCH. 40 PVC OR CAST IRON
VENT	ABOVE GRADE	HUBLESS CAST IRON
CONDENSATE	ABOVE GRADE	TYPE "L" HARD DRAWN COPPER

NOTE: REFER TO SPECIFICATION SECTION 221000 FOR ADDITIONAL INFORMATION.

CONTROL DEVICES

IRC — OWNER'S IRRIGATION SYSTEM CONTROL PANEL: WEATHERMATIC ENABLED FOR ZIGBEE WIRELESS PROTOCOL BY OWNERS LANDSCAPER

NOTE: BMS CONTROL DEVICES TO BE ORDERED FROM THE BMS EQUIPMENT VENDOR. COORDINATE WITH PROJECT ELECTRICIAN.

PLUMBING GENERAL NOTES:

1.	CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS, IN COMPLIANCE WITH 2018 INTERNATIONAL PLUMBING CODE. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
2.	VERIFY THE EXACT LOCATION OF EXISTING SANITARY SEWERS AND WATER MAINS FROM THE ACTUAL JOB SITE PRIOR TO SUBMITTING BID. SUBMISSION OF YOUR PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
3.	MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS
4.	WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. COORDINATE COLOR AND STYLE WITH ENGINEER/ARCHITECT.
5.	INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
6.	PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
7.	NO VENT THROUGH ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE OR VENTILATION LOUVERS, DOORS, WINDOWS AND OTHER BUILDING OPENINGS.
8.	SANITARY SEWER AND MAIN WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 36" BELOW EXTERIOR GRADE.
9.	PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.
10.	PROVIDE ALL SINKS AND LAVATORIES WITH TRAP FITTINGS FOR CLEANOUT
11.	CONTRACTOR IS RESPONSIBLE TO ALSO CHECKING FIELD CONDITIONS PRIOR TO BIDDING AND REPORT ANY PROBLEMS/CONFLICTS TO THE ENGINEER WITHIN 2 DAYS OF DISCOVERY. ANY CHANGES RESULTING FROM CONDITIONS ARISING IN THE FIELD WHICH WERE NOT BROUGHT TO THE ENGINEER'S ATTENTION ARE TO BE MADE BY THIS CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER
12.	ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE(1) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
13.	UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
14.	THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
15.	THE CONTRACTOR SHALL PROVIDE ALL CHROME EXPOSED TRAP PRIMER CONNECTIONS BELOW LAVATORIES
16.	PLUMBING CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR WATER HEATER AND RPZ.
17.	ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION. THE FIRST 8 FEET OF PIPING FROM THE HOT WATER HEATER SHALL BE INSULATED WITH 1/2" INSULATION FOR COLD WATER AND 1" INSULATION FOR HOT WATER.
18.	CONTRACTOR TO VISUALLY INSPECT CONDITION OF EXISTING SANITARY PIPING PRIOR TO COMMENCING WORK WITH APPROVED VIDEO CAMERA PROBE. CONTRACTOR TO RECORD INSPECTION AND PROVIDE TO ARCHITECT. IMMEDIATELY NOTIFY ARCHITECT OF ANY DEFECTS, DAMAGES, OR ISSUES IN EXISTING PIPING. UPON COMPLETION OF WORK RE-INSPECT PIPING.
19	ALL NEW AND EXISTING POTABLE WATER PIPING SHALL BE DISINFECTED PRIOR TO OCCUPANCY.
20.	ALL MATERIALS WITHIN RETURN AIR PLENUMS OR EXPOSED WITHIN DUCTS SHALL BE NONCOMBUSTIBLE AND/OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM 84 TESTING.
21.	NO NEW OR EXISTING PLASTIC PIPING (PVC,ABS,OR CPVC) IS ALLOWED IN OPEN PLENUM RETURN AIR SYSTEMS, UNLESS WRAPPED IN PLENUM RATED INSULATION SIMILAR TO 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
22.	THE CONTRACTOR SHALL PAINT ALL EXPOSED EXTERIOR METAL GAS PIPING, VALVES, SERVICE REGULATORS, AND PIPING SPECIALTIES, EXCEPT COMPONENTS WITH FACTORY-APPLIED PAINT OR PROTECTIVE COATING. CONTRACTOR SHALL PRIME WITH AN ALKYD ANTICORROSIVE METAL PRIMER AND TOP WITH A MINIMUM OF TWO COATS OF ALKYD ENAMEL. COORDINATE COLOR WITH ARCHITECT/LANDLORD.

PLUMBING EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (II) — SEISMIC DESIGN CATEGORY (B)

EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
WASTE PIPING	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
EXTERIOR GAS PIPING (Ip=1.5)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
INTERIOR GAS PIPING (IP=1.5)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
VENT PIPING (IP=1.0)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
WATER PIPING (IP=1.0)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
STORM PIPING (IP=1.0)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
WATER HEATER (IP=1.0)	x		x					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B

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ENGINEER OF RECORD

STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER PE-2013011214
PROFESSIONAL ENGINEER
01/05/2020

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	
PROTOTYPE:	**20.2**
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

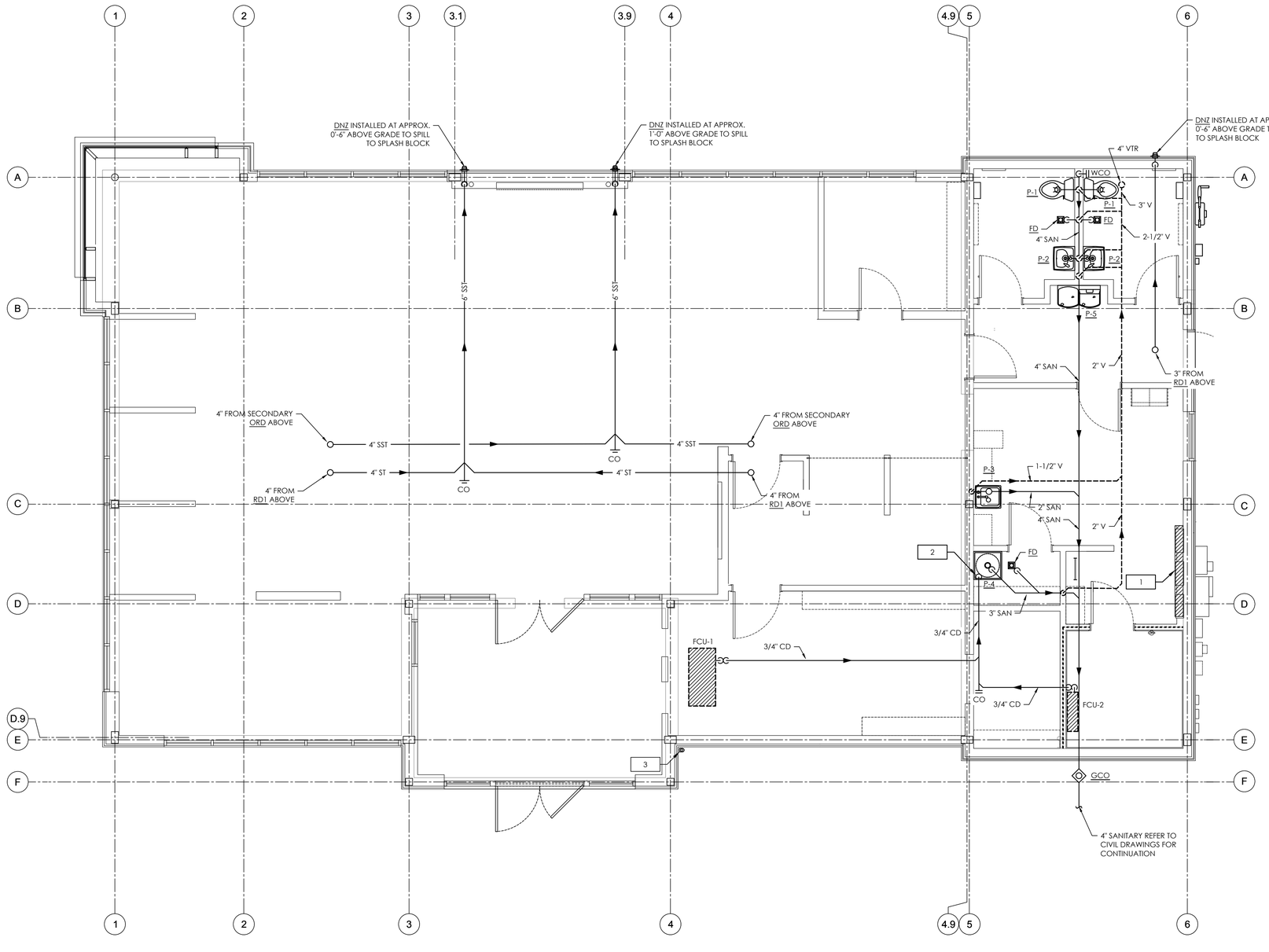
SHEET TITLE

PLUMBING ABBREVIATION, LEGENDS & NOTES

SHEET NUMBER

P0.0

PLUMBING NOTES:	
1.	DEDICATED ELECTRICAL SPACE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT SIX FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURE. WHICHEVER IS LOWER. SHALL BE DEDICATED TO ELECTRICAL EQUIPMENT. NO PIPING FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE PERMITTED WITHIN THIS ZONE.
2.	CONTRACTOR TO ROUTE 1" CONDENSATE DRAIN FROM MECHANICAL EQUIPMENT AND TERMINATE AT MOP SINK WITH 2" AIR GAP FROM RIM OF SINK.
3.	CONTRACTOR TO PROVIDE DOWNSPOUT SHOE (DNZ) TO CONNECT TO CANOPY DOWNSPOUT AND DAYLIGHT TO LANDSCAPE. DOWNSPOUT PROVIDED BY CANOPY MANUFACTURER. CANOPY MANUFACTURER TO COORDINATE DOWNSPOUT LOCATION WITH SHOE AND FIELD CUT ASSOCIATED DRAIN HOLE IN THE CANOPY.



PLUMBING SANITARY, STORM, AND VENT PLAN

SCALE 1/4"=1'-0"

1

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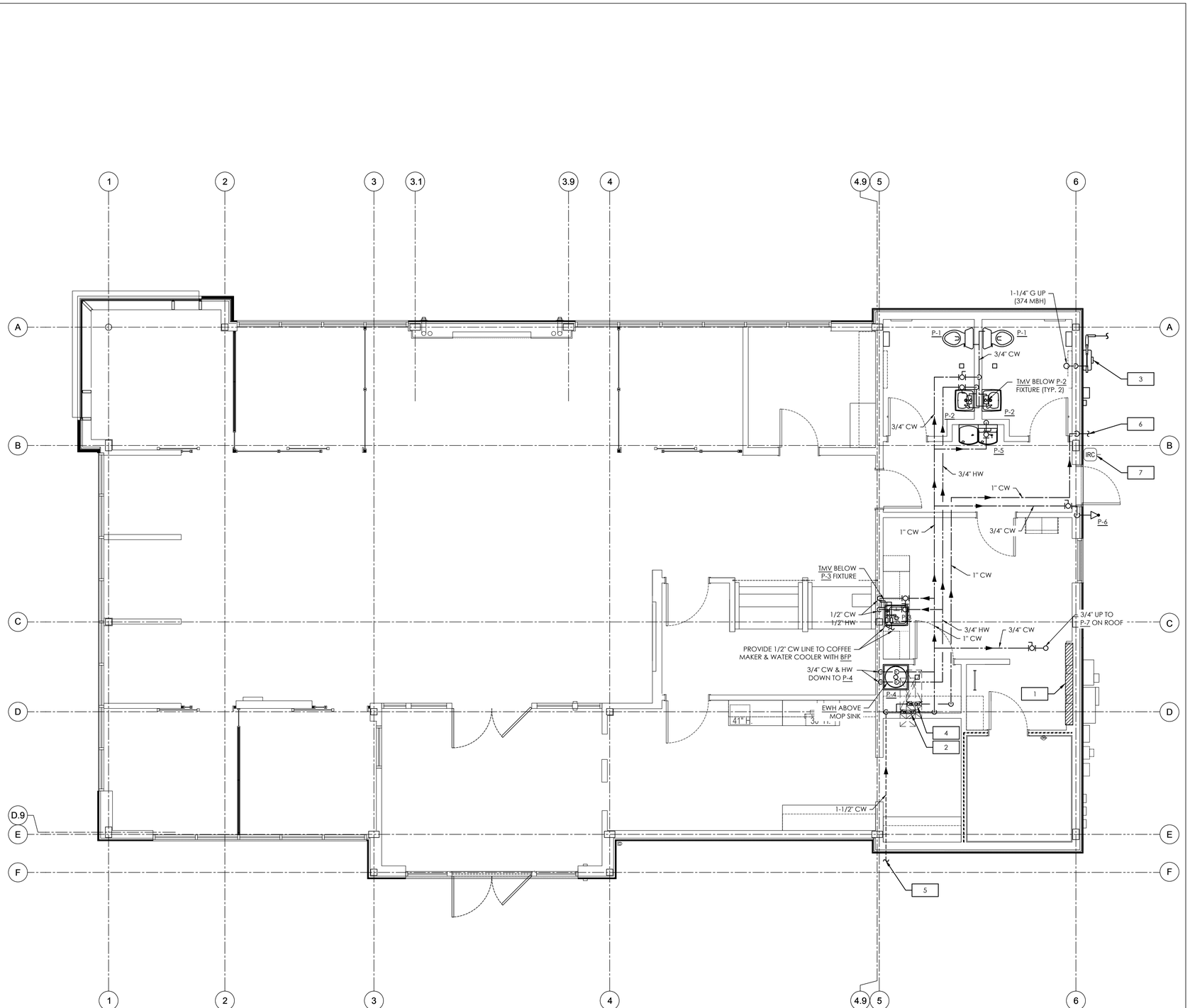
PLUMBING SANITARY, STORM, & VENT PLAN

SHEET NUMBER

P1.0



PLUMBING DOMESTIC WATER PLAN | SCALE 1/4"=1'-0" | 1

PLUMBING NOTES:

1.	DEDICATED ELECTRICAL SPACE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT SIX FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURE. WHICHEVER IS LOWER. SHALL BE DEDICATED TO ELECTRICAL EQUIPMENT. NO PIPING FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE PERMITTED WITHIN THIS ZONE.
2.	CONTRACTOR TO PROVIDE 1" WATTS LF009M2QT BACKFLOW PREVENTION DEVICE SERVING BUILDING DOMESTIC WATER SYSTEM.
3.	NEW GAS METER PROVIDED BY UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY AS REQUIRED. CONTRACTOR TO EXTEND AND CONNECT NEW 1-1/4" GAS PIPING AND ROUTE TO ROOF. OFFSET PIPING TO ROOF IN CEILING PLENUM.
4.	CONTRACTOR TO PROVIDE 1" WATTS LF009M2QT BACKFLOW PREVENTION DEVICE SERVING BUILDING IRRIGATION SYSTEM.
5.	1-1/2" DOMESTIC COLD WATER SERVICE BELOW GRADE. REFER TO CIVIL PLANS FOR CONTINUATION.
6.	1" COLD WATER TO BUILDING IRRIGATION SYSTEM BY OTHERS. REFER TO IRRIGATION PLANS FOR CONTINUATION. CONTRACTOR TO COORDINATE PIPE ROUTING AND TIE-IN WITH IRRIGATION CONTRACTOR PRIOR TO COMMENCING WORK.
7.	LANDSCAPE IRRIGATION SYSTEM CONTROLLER AND WIRELESS NETWORK LINK. CONTROLLER SHALL BE LINKED TO DAINTREE BMS.

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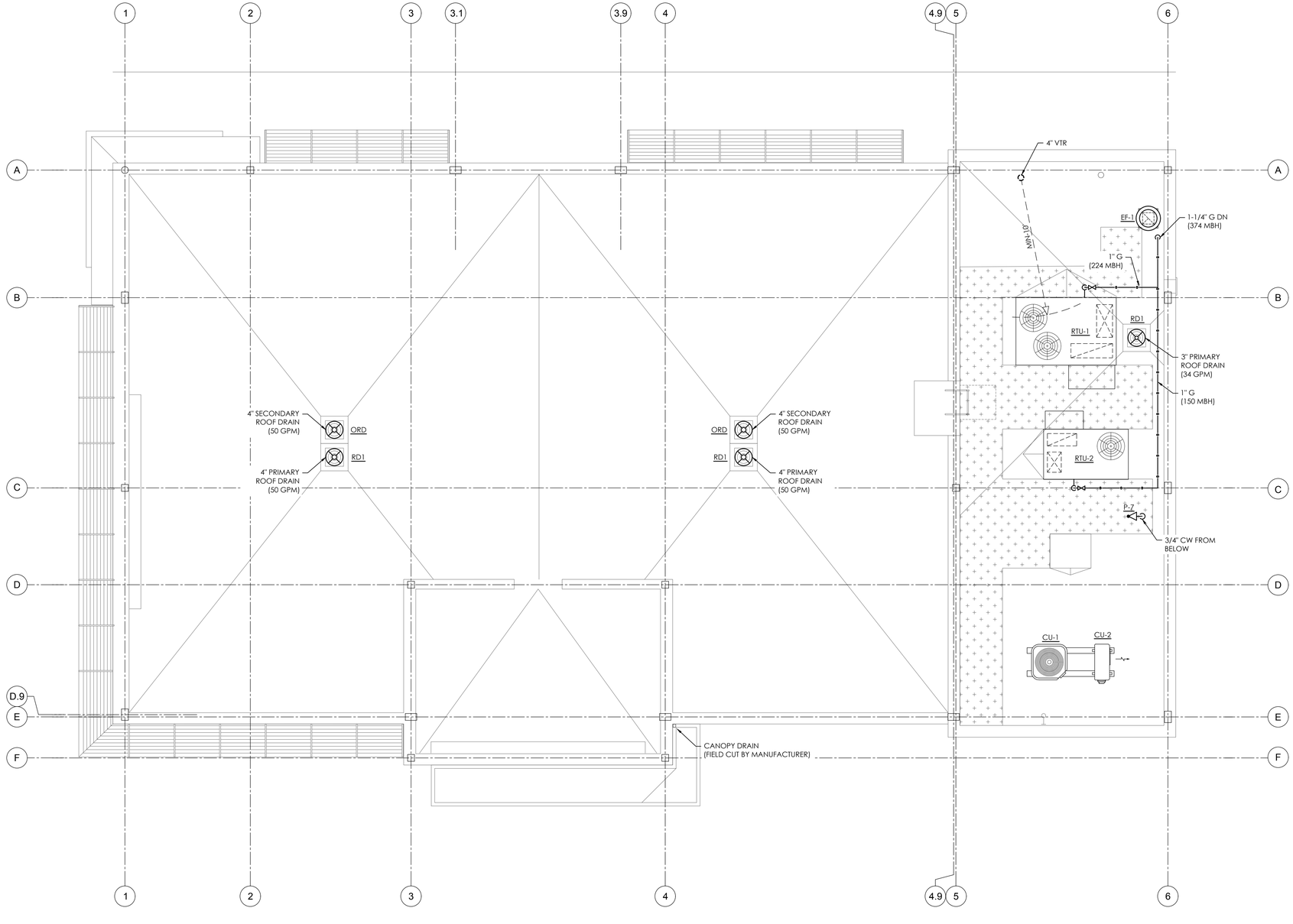
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

PLUMBING DOMESTIC WATER PLAN

SHEET NUMBER

P1.1



PLUMBING ROOF PLAN | SCALE 1/4" = 1'-0" | 1

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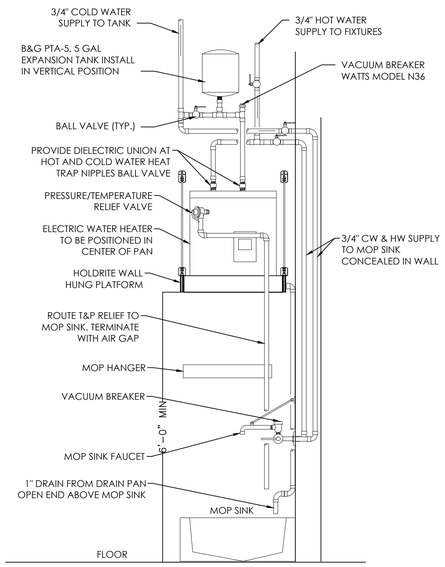
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

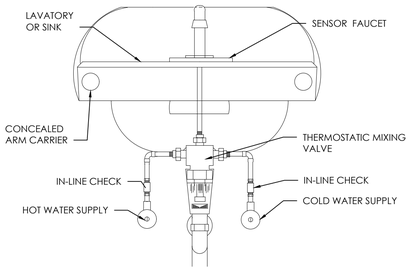
PLUMBING ROOF PLAN

SHEET NUMBER

P2.0



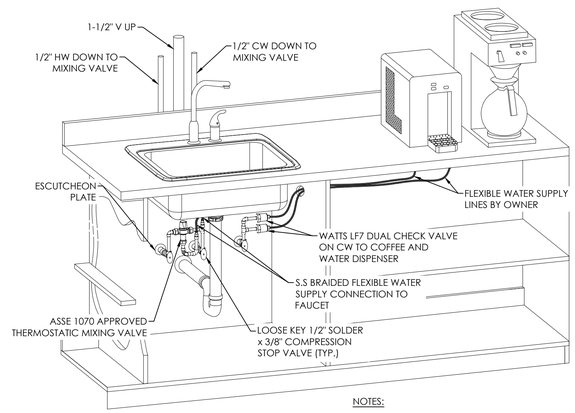
ELEC. WATER HEATER ON STAND | SCALE NTS | 1



NOTES:

1. INSTALL MIXING VALVE IN WALL BELOW LAVATORY. FIELD COORDINATE EXACT LOCATION.

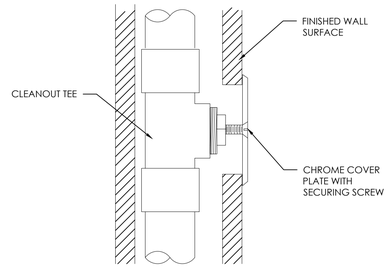
THERMOSTATIC MIXING VALVE | SCALE NTS | 2



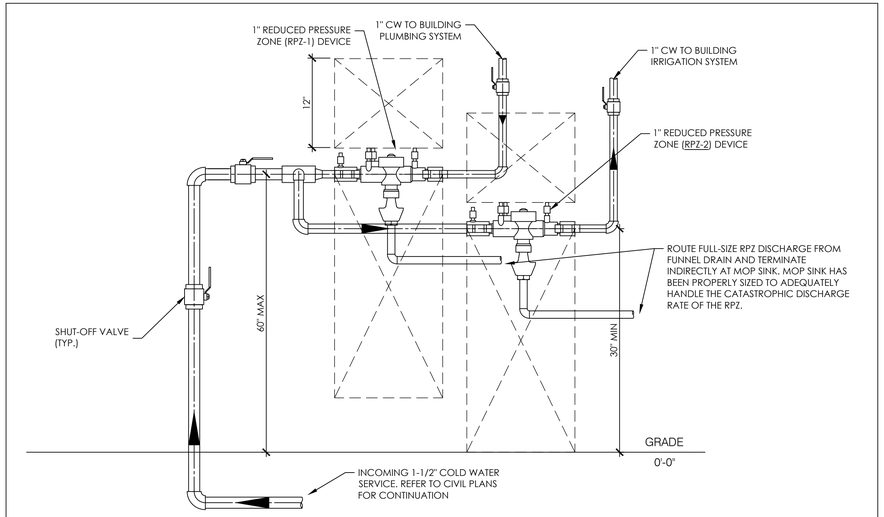
NOTES:

1. CONTRACTOR TO COORDINATE LOCATION OF COFFEE MAKER AND WATER DISPENSER WITH ARCHITECTURAL PLANS.

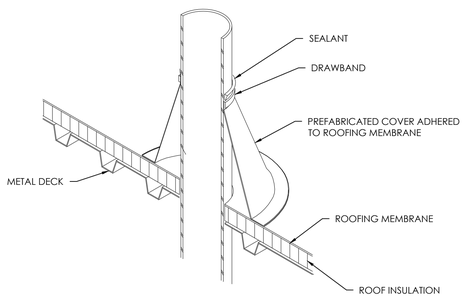
LOUNGE SINK DETAIL | SCALE NTS | 3



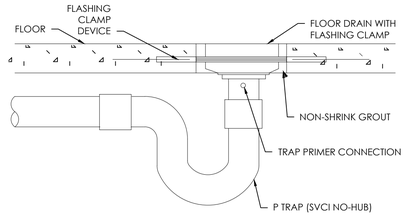
WALL CLEANOUT | SCALE NTS | 4



DOMESTIC WATER SERVICE DETAIL | SCALE NTS | 7



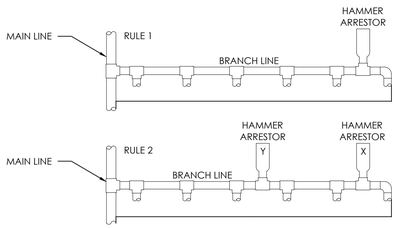
GAS PIPING THROUGH ROOF DETAIL | SCALE NTS | 5



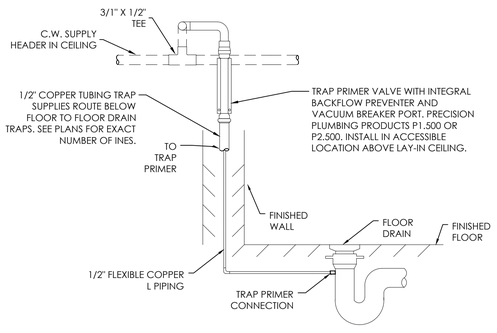
FLOOR DRAIN | SCALE NTS | 6

RULE 1: BRANCH LINES OF 20 FEET OR LESS.
THE HAMMER ARRESTOR SHOULD BE PLACED AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES.

RULE 2: BRANCH LINES OVER 20 FEET.
AN ADDITIONAL HAMMER ARRESTOR (Y) SHOULD BE PLACED AS SHOWN (BELOW). THE ADDITIONAL UNIT PLACED AT THE MIDPOINT OF THE RUN LONGER THAN 20 FEET. THE SUM OF THE FIXTURE UNIT RATINGS OF (X) AND (Y) COMBINED, SHOULD BE EQUAL TO OR GREATER THAN THE DEMAND OF ALL BRANCHES. INSTALL IN A ACCESSIBLE AREA



WATER HAMMER ARRESTOR | SCALE NTS | 8



TRAP PRIMER | SCALE NTS | 9

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STATE OF MISSOURI
DAVID MICAH LEIFFER
NUMBER PE-2013011214
PROFESSIONAL ENGINEER
01/05/2020

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PROJECT INFORMATION

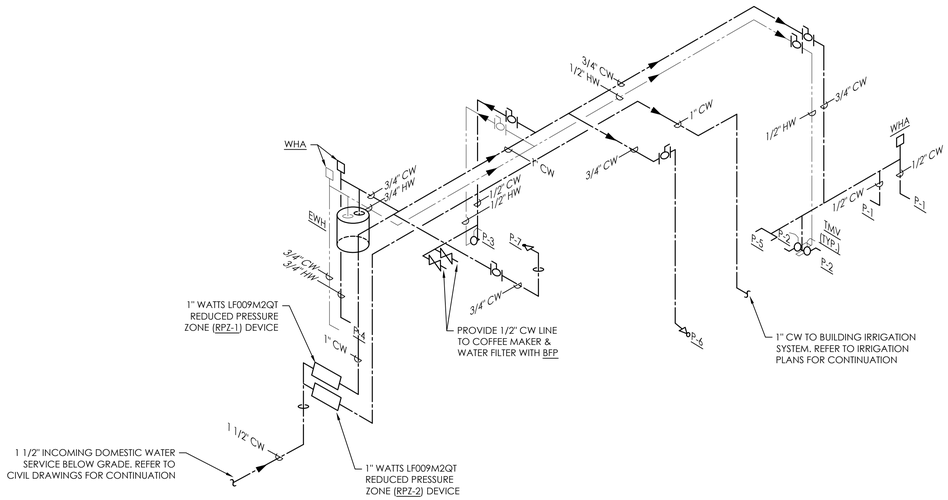
PROJECT NO:	JPM.27135.001
DATE:	
PROTOTYPE:	**20.2**
DRAWN BY:	M.BATDORF
CHECKED BY:	S.VAZ
VERSION:	SE_1.00

SHEET TITLE

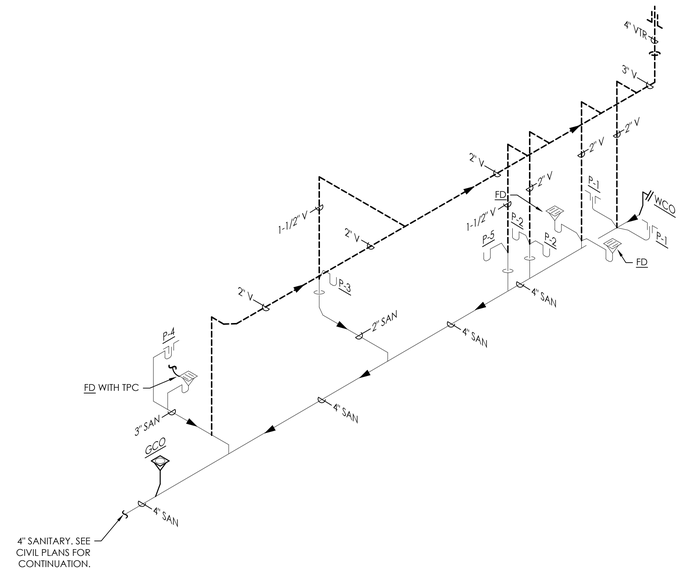
PLUMBING DETAILS

SHEET NUMBER

P3.0



PLUMBING DOMESTIC WATER RISER | SCALE N.T.S. | 1



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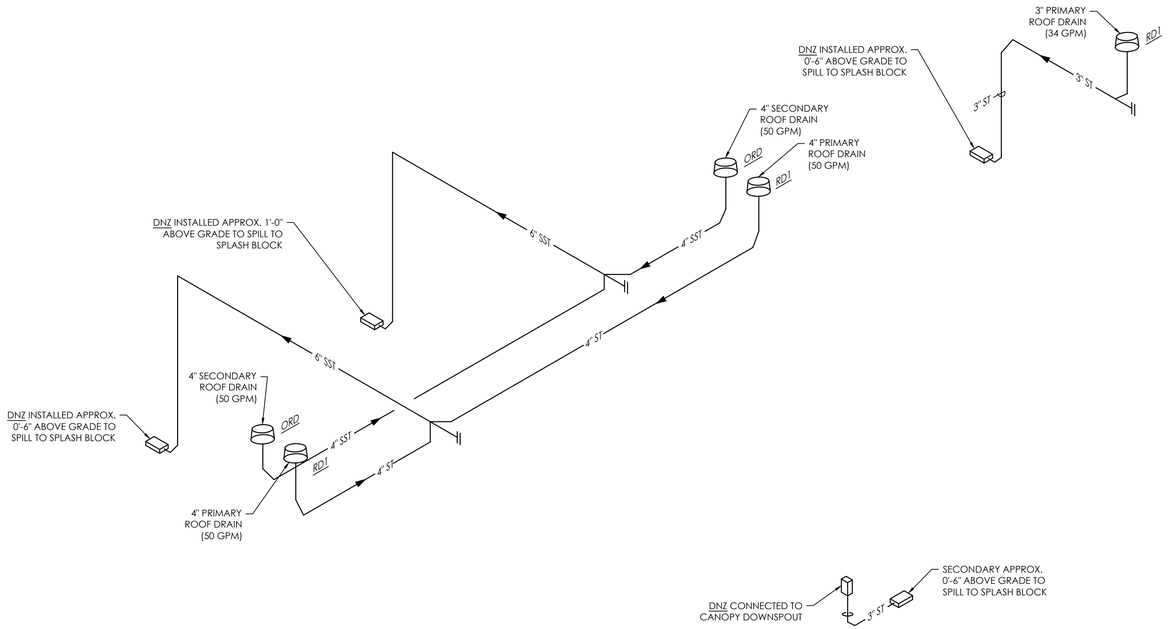
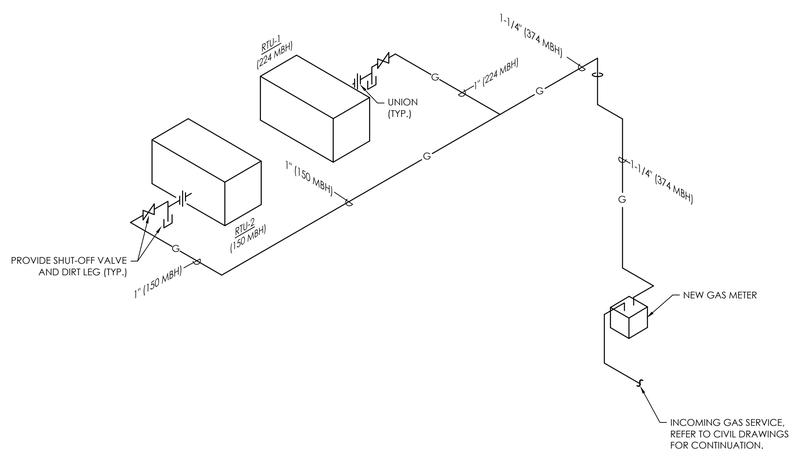


PLUMBING STORM RISER | SCALE N.T.S. | 3



GAS LOAD SCHEDULE	
EQUIPMENT	LOAD
RTU-1	224,000 BTUH
RTU-2	110,000 BTUH
TOTAL	334,000 BTUH

NOTES:
1. ALL VALUES BASED ON 2018 INTERNATIONAL FUEL GAS CODE.
2. MINIMUM REQUIRED PRESSURE IS 7" W.C. (1/4 PSI) WITH A TOTAL DEVELOPED LENGTH OF 70 FEET.
3. PIPE SIZES BASED ON TABLE (402).4(2) OF THE 2018 INTERNATIONAL FUEL GAS CODE AND SCHEDULE 40 METALLIC PIPE.

PLUMBING GAS RISER | SCALE N.T.S. | 4

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SHEET TITLE

PLUMBING RISER DIAGRAMS

SHEET NUMBER

P4.0

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DWG	DRAWING
E	EXISTING
EB	EQUIPMENT BOARD
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSE
FA	FIRE ALARM
FATC	FIRE ALARM TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND,G	GROUND
HACR	HEATING/AIR CONDITIONING-RATED
HD	HAND DRYER
HP	HORSEPOWER
IG	ISOLATED GROUND
J	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
REF	REFRIGERATOR
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
TS	TIME SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHER PROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

NOT ALL ABBREVIATIONS WILL BE USED. USED FOR REFERENCE PURPOSES ONLY.

COMMUNICATIONS LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

- DATA OUTLET - WALL MOUNTED - UON BOTTOM TO BOTTOM 15" AFF
- (TEL) TELEPHONE OUTLET - WALL MOUNTED - UON BOTTOM TO BOTTOM 15" AFF
- DATA/TELEPHONE OUTLET - WALL MOUNTED - UON BOTTOM TO BOTTOM 15" AFF (TO SHOW BOTH DATA/DATA FOR TELEPHONE LOCATIONS)
- FLUSH FLOOR BOX WITH THE FOLLOWING:
  (2) DATA CABLE
  (3) LEGRAND (EFB45S) FLOOR RECESSED JUNCTION BOX WITH COMMUNICATION INTERNAL ACCESSORIES AS REQUIRED FOR DATA DEVICES, TWO BLANK PLATES WITH (EFB45) COVER PLATES IN BRUSHED ALUMINUM. CONTRACTOR TO FURNISH AND INSTALL FLOOR BOX AND ALL CONNECTORS, ETC. REFER TO SYSTEMS PLAN SHEET FOR LOCATION.

FIRE ALARM LEGEND

- (D) IN-DUCT SMOKE DETECTOR - 120 VOLT - FURNISHED AND WIRED BY DIVISION 16 - INSTALLED BY DIVISION 15
- RA REMOTE ALARM INDICATOR WITH KEY OPERATED TEST SWITCH, LED, AND RESET - WALL MOUNT 60" AFF TO CENTER
- R RELAY - FOR UNIT SHUT-DOWN

GENERAL INFORMATION

1. TEXT SHOWN ON PLANS ADJACENT TO LIGHTING FIXTURES SHALL DENOTE THE FOLLOWING:
   A - UPPERCASE LETTER INDICATES FIXTURE TYPE
   a - LOWERCASE LETTER INDICATES LIGHT SWITCH CONTROL
   1 - NUMBER INDICATES BRANCH CIRCUIT NUMBER
2. LIGHT FIXTURE HATCHING SHALL BE INTERPRETED AS FOLLOWS:
   - NORMAL BRANCH CIRCUIT
   - EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
3. NUMBERS SHOWN ON PLANS ADJACENT TO WIRING DEVICES INDICATE BRANCH CIRCUIT NUMBER.
4. STANDARD SYMBOLS SHOWN ON LEGEND MAY NOT APPEAR ON ALL PLANS, WHERE SYMBOL APPEARS ON PLANS FURNISH AND INSTALL AS SPECIFIED.

LIGHTING LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

- LIGHT FIXTURE: CEILING SURFACE-MOUNT OR PENDANT
- LIGHT FIXTURE: WALL SURFACE-MOUNT
- LIGHT FIXTURE: RECESSED DOWNLIGHT
- LIGHT FIXTURE: RECESSED 2x2 GRID
- LIGHT FIXTURE: GRID-RECESSED LINEAR TROFFER
- LIGHT FIXTURE: LINEAR SURFACE-MOUNT UPLIGHT
- OS LIGHT FIXTURE: UNDERCABINET WITH INTEGRAL OCCUPANCY SENSOR
- OS LIGHT FIXTURE: HORIZONTAL WALL-MOUNT WITH INTEGRAL OCCUPANCY SENSOR
- LIGHT FIXTURE: VERTICAL WALL-MOUNT WITH INTEGRAL OCCUPANCY SENSOR
- EXIT SIGN INDICATING LIGHTED SIDE(S) AND EGRESS ARROW DIRECTION
- BATTERY-POWERED TWIN HEAD EMERGENCY LIGHT FIXTURE

POWER LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

- HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS. FOR HOMERUNS EXCEEDING 100' IN LENGTH PROVIDE #10 CONDUCTORS. FOR HOMERUNS EXCEEDING 150' IN LENGTH PROVIDE #8 CONDUCTORS. THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 1/2" CONDUIT.
- UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.
- GROUNDING ELECTRODE CONDUCTOR AS INDICATED
- (J) CEILING OR WALL MOUNTED JUNCTION BOX - UON SIZE AS REQUIRED BY NEC
- MOTOR AS INDICATED
- SPD SURGE PROTECTIVE DEVICE AS INDICATED
- PANELBOARD - BRANCH CIRCUIT TYPE - 120/208V
- T (T) UTILITY TRANSFORMER AS INDICATED (PAD OR POLE MOUNTED)
- METER SOCKET
- NON-FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF, (UON)
- FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - FUSED AS INDICATED ON PLANS - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF, (UON)
- ENCLOSED CIRCUIT BREAKER - HEAVY DUTY - SEE SPECIFICATIONS - MOUNT TOP OF ENCLOSURE 66" AFF, (UON)
- SINGLE RECEPTACLE - 20A, 120V - CENTER MOUNTED 18" AFF, (UON)
- DUPLEX RECEPTACLE - 20A, 120V - CENTER MOUNTED 18" AFF, (UON)
- DOUBLE DUPLEX RECEPTACLE - 20A, 120V - CENTER MOUNTED 18" AFF, (UON)
- FLUSH FLOOR BOX WITH THE FOLLOWING:
  (2) POWER AS SHOWN ON POWER PLAN SHEET
  LEGRAND (EFB45S) FLOOR RECESSED JUNCTION BOX WITH POWER AND INTERNAL ACCESSORIES AS REQUIRED FOR TWO 120V DUPLEX RECEPTACLES AND TWO BLANK PLATES WITH (EFB45) COVER PLATES IN BRUSHED ALUMINUM. CONTRACTOR TO FURNISH AND INSTALL FLOOR BOX AND ALL OUTLETS, CONNECTORS, ETC. REFER TO POWER PLAN SHEET FOR LOCATION.

SECURITY LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

- KS KEY SWITCH - MOUNTED IN DOOR JAMB
- CR CARD READER - UON BOTTOM MOUNTED
- PB PUSH BUTTON ACTUATOR - UON BOTTOM MOUNTED
- KP KEY PAD - UON BOTTOM MOUNTED
- ES ELECTRIC STRIKE - MOUNTED ON DOOR
- TM AUTOMATIC TELLER MACHINE
- D AHD - AFTER HOURS DEPOSITORY
- C ALARM TCD - TELLER CASH DISPENSER
- AL ALARM LIGHT/LAMP @ 80" A.F.F., U.O.N.
- V VAULT
- H HUB - HOLDUP BUTTON WHUB - WIRELESS HOLDUP BUTTON
- DSS ALARM SHUNT SWITCH
- MSP MAIN SECURITY PANEL
- JB/W JUNCTION BOX/MAIN
- VSS VIDEO SWITCHER
- VT VIDEO TIMER
- VM VIDEO MONITOR
- R RADIO @ 12" ABOVE CEILING, (UON)
- INTERNAL ATM CAMERA

NOTE:
SECURITY/COMMUNICATION SYSTEM E.C. TO PROVIDE ROUGH-IN @ CONCEALED SPACES; ROUGH-IN TO CONSIST OF 3/4" CONDUIT, 4x4 BOXES AND SINGLE GANG RINGS (VERTICAL), LOW VOLTAGE VENDOR TO PROVIDE AND INSTALL SECURITY CABLING, COORDINATE WITH SECURITY VENDOR.

SWITCHING LEGEND

REFERENCE ARCHITECTURAL ELEVATION PLANS FOR DEVICE MOUNTING HEIGHT UNLESS OTHERWISE NOTED (UON).

$	SINGLE POLE SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS
$ a	SINGLE POLE SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ a 2	DOUBLE POLE SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ a 3	THREE WAY SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ a 4	FOUR WAY SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ a K	KEYED SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ a D	DIMMER SWITCH - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION
$ M	MOTOR RATED SWITCH WITH TOL - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS
$ T	TIMER DELAY SWITCH - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS
TS	TIME SWITCH AS INDICATED - UON MOUNT TOP OF ENCLOSURE 66" AFF
PC	PHOTO CELL - COORDINATE MOUNTING LOCATION WITH ARCHITECT
	LIGHTING CONTACTOR - ELECTRICALLY HELD - NUMBER OF POLES AS NEEDED
OC	OCCUPANCY SENSOR - WALL MOUNTED - SEE SPECIFICATIONS - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS
OC1	OCCUPANCY SENSOR - CEILING MOUNTED - SEE SPECIFICATIONS
WAPM	WIRELESS ADAPTER (WA100-PM)
WGA	WIRELESS GENERAL ADAPTER (WGA 100)
$	WIRELESS WALL DIMMER (WWD1)
RM	WIRELESS PIR (WOS2-RM-E)

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR ELECTRICAL SYSTEM DEVICE AND FIXTURE LOCATIONS AND ADDITIONAL INFORMATION ON BUILDING ENVELOPE FIXTURES AND DEVICES.
2. ALL LINE- AND LOW-VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531. THE FOLLOWING CONDUITS ARE PERMITTED;
   - GALVANIZED RIGID CONDUIT (GRC): HOT DIPPED GALVANIZED RIGID STEEL WITH THREADED ENDS. MEET ASTM STANDARD A-153 GALVANIZED AFTER FABRICATION.
   - INTERMEDIATE METAL CONDUIT (IMC): RIGID MILD STEEL TUBE WITH WELDED SEAMS, HOT DIPPED GALVANIZED WITH THREADED ENDS.
   - THIN WALL: ELECTRO-GALVANIZED ELECTRICAL METALLIC TUBING (EMT).
   CONDUITS MUST ALSO BE;
   - FLEXIBLE: ALLOWED WITH-IN 4'-0" FLEXIBLE CONNECTION ONLY. HOT DIPPED GALVANIZED MATERIAL OF MILD STEEL OF UNIFORM WIDTH AND THICKNESS.
   - FLEXIBLE LIQUID TIGHT: ALLOWED WITH-IN 4'-0" FLEXIBLE CONNECTION ONLY. HOT DIPPED GALVANIZED MATERIAL OF MILD SHELL OF UNIFORM WIDTH AND THICKNESS WITH EXTRUDED MOISTURE AND OIL PROOF PVC JACKET.
3. ALL CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531 MUST BE UTILIZED WITH APPROPRIATE CONDUIT FITTINGS;
   - GRC CONDUIT: THREADED TYPE.
   - IMC CONDUIT: THREADED TYPE.
   - THIN WALL OR EMT: RAIN-TIGHT AND CONCRETE-TIGHT, GLAND COMPRESSION TYPE, INSULATED NYLON THROAT WITH DIE-CAST BODY AND STEEL NUT, APPLETON TYPE 86T SERIES OR EQUAL. FOR CONDUIT SIZES 3" AND LARGER (WHERE NOT REQUIRED TO BE RAIN OR CONCRETE TIGHT) SET-SCREW TYPE IS ACCEPTABLE.
   - FLEXIBLE CONDUIT: SINGLE OR TWO PIECE SQUEEZE TYPE.
   - FLEXIBLE LIQUID TYPE: COMPRESSION TYPE.
4. ALL LINE- AND LOW-VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT SYSTEMS CONFORMING TO PROJECT MANUAL SPECIFICATIONS SECTION 260531. ARMORED AND METAL-SHEATHED CABLES (GENERICALLY "BX"), TYPES AC AND MC, AND NON-METALLIC SHEATHED CABLES (GENERICALLY "ROMEX"), TYPES NM, NMC, AND NMS, ARE NOT PERMITTED.
5. ALL ENDS OF CONDUIT SHALL HAVE BUSHING OR A COUPLING INSTALLED FOR THE PURPOSE OF PROVIDING PROTECTION OF CONDUCTORS. IN NO CASE ARE CONDUIT ENDS PERMITTED TO REMAIN OPEN.
6. ALL LOW VOLTAGE WIRING IN INACCESSIBLE AREAS SHALL BE INSTALLED IN METALLIC CONDUIT.
7. CONDUIT SYSTEMS INSTALLED ON THE ROOF SHALL BE INSTALLED IN METALLIC CONDUIT AND SUPPORTED EVERY FIVE FEET.
8. ALL WIRING FOR THE PURPOSE OF EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM INDEPENDENT OF OTHER SYSTEMS.
9. THERE SHALL BE SEPARATE IDENTIFIED NEUTRAL INSTALLED FOR EACH EMERGENCY LIGHTING CIRCUIT AND/OR EXIT LIGHTING CIRCUIT.
10. SECURELY FASTEN EACH RECESSED GRID LIGHT FIXTURE TO THE CEILING SYSTEM WITH APPROPRIATE SUPPORT BRACKETS AND CLIPS PER INDUSTRY STANDARDS. AT LEAST TWO CORNERS OF EACH FIXTURE SHALL BE SUPPORTED INDEPENDENTLY FROM ANY OTHER SUPPORTING SYSTEM.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHT FIXTURE LAMP ORIENTATION.
12. ALL LIGHTING SHALL BE PROTECTED BY A MAXIMUM 20 AMP CIRCUIT BREAKER.
13. COORDINATE WITH SPECIFICATION 260519 THAT LOW VOLTAGE CONDUCTOR AND CABLE IS COMPLIANT. SHALL CONTAIN A PROPERLY SIZED GREED GROUND CONDUCTOR AND SHALL NOT EXCEED SIX FEET (6') IN LENGTH.
14. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CONNECTED BY MEANS OF A SCREW TERMINAL.
15. THE CONTINUITY OF ANY BRANCH CIRCUIT CONDUCTOR INCLUDING ANY IDENTIFIED GROUNDED CONDUCTOR SHALL NOT DEPEND UPON DEVICE CONNECTIONS, SUCH AS LAMPHOLDERS, RECEPTACLES, ETC., WHERE THE REMOVAL OF SUCH DEVICES WOULD INTERRUPT THE CONTINUITY.
16. DE-RATING OF THE NEUTRAL IS PROHIBITED.
17. THE USE OF AUXILIARY GUTTERS, WIREWAYS, RACEWAYS, AS ENCLOSURES FOR SERVICE ENTRANCE OR TAPPING OF SERVICE ENTRANCE CONDUCTORS IS STRICTLY PROHIBITED.
18. METAL IDENTIFICATION TAGS SHALL BE INSTALLED WHERE THE GROUNDING CONDUCTOR IS CONNECTED TO THE GROUNDING ELECTRODE.
19. ALL POWER, DATA AND SECURITY CONDUIT CONNECTIONS TO SYSTEMS FURNITURE PANELS SHALL BE BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH OWNER'S SYSTEMS FURNITURE VENDOR PRIOR TO ROUGH-IN, INSTALL FLUSH JUNCTION BOXES AT 8" MIN. AFF AND PROVIDE FLEXIBLE CONDUIT TO PARTITIONS SYSTEM RACEWAY.
20. REFER TO ARCHITECTURAL DRAWINGS FOR ORIENTATION OF POWER, DATA AND SECURITY SYSTEMS JUNCTION BOXES AND MUD RINGS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR ELECTRICAL, DATA, AND SECURITY DEVICE AND COVER PLATE COLORS.
22. ISOLATED GROUND RECEPTACLES SHALL BE ORANGE.
23. PENETRATIONS OF FLOORS, ROOF, WALLS AND WALL MEMBRANES REQUIRED TO HAVE FIRE-RESISTANCE RATINGS SHALL BE PROTECTED WITH THROUGH-PENETRATION FIRE STOPS SUITABLE FOR THE METHOD OF PENETRATION. MAINTAIN ALL FIRE RATINGS. THROUGH-PENETRATIONS FIRE STOPS SHALL BE TESTED IN ACCORDANCE WITH UL AND BUILDING CODE REQUIREMENTS.
24. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY ENFORCED NATIONAL ELECTRICAL CODE (NEC).
25. UNLESS OTHERWISE DICTATED BY APPLICABLE CODES OR THE AHJ, ALL MATERIALS WITHIN RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE AND/OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH ATSM E 84 TESTING.
26. THE ELECTRICAL/DATA ROOM MUST BE 100% COMPLETE AT A MINIMUM OF 45 DAYS PRIOR TO CONSTRUCTION COMPLETION/TURNOVER DATE.
27. UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF. REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS AND MOUNTING HEIGHTS.
28. E.C. TO PROVIDE LABELS ON ALL RECEPTACLES (ELECTRICAL, DATA, AND SECURITY). COORDINATE LABEL NAMING CONVENTIONS WITH OWNER PRIOR TO INSTALLATION.

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JOHN FERGUSON, P.E.
MISSOURI
LICENSE #: 2008014085

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CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

LEGEND, ABBREVIATIONS AND NOTES

SHEET NUMBER

E0.0

BUILDING MANAGEMENT SYSTEM LIGHTING CONTROL ZONE SCHEDULE

ZONE	LOCATION / ROOM / FUNCTION	CONTROL FUNCTION					REMARKS
		ON	OFF	TYPE	OVER-RIDE TYPE	OVER-RIDE LOCATION	
1	DRIVE-UP CANOPY	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
2A, 2B...	BUILDING AND POLE-MOUNT EXTERIOR AREA LIGHT FIXTURES (SUB-ZONES AS REQUIRED)	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
3	EXTERIOR ENTRANCE DOWNLIGHTS AND SITE MONUMENT / PYLON SIGNS	PHOTOCELL	PHOTOCELL	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
4	EXTERIOR BUILDING SIGNAGE AND CANOPY SIGNAGE	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
5	EXTERIOR DECORATIVE AND WALL-WASH FIXTURES AND EXTERIOR-FACING INTERIOR SIGNAGE	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
6	VESTIBULE (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1, 5
7	CONFERENCE ROOM ACCENT	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	IN ROOM	
8	CONFERENCE ROOM PENDANT(S) (ALWAYS ON, WITH IN-ROOM OVER-RIDE)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	2
9A, 9B...	PRIVATE OFFICE (PCS/CCS) AND BOOTH DESK PENDANTS (ALWAYS ON)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	2
10A, 10B...	LOBBY GENERAL (SUB-ZONES AS REQUIRED)	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1
11A, 11B...	VESTIBULE AND LOBBY ACCENT - COVE STRIPS, ETC. (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	
12A, 12B...	OFFICE AND CONFERENCE GENERAL LIGHTING	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	1
13A, 13B...	BOOTH GENERAL LIGHTING	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	1
14	PRINT/FILE	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
15	SDB CHEST AND VIEWING ROOMS AND SDB VAULTS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
16	BACK-OF-HOUSE WORK AREAS (LAO, CASH, AT, ATM, ETC.)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
17	MANUAL TRANSACTION (TELLER LINE)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
18	SERVICE HALLWAYS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
19	RESTROOMS	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	
20	LOUNGE	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	3
21	UTILITY EXCEPT DATA (JANITOR, LADDER, ELEC, PLUMBING, SPRINKLER, ETC)	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	6
22	DATA	MANUAL	MANUAL	LINE VOLTAGE	NONE	NA	
23	RESTROOM / JANITOR / LOUNGE EXHAUST SYSTEM	OCCUPANCY	VACANCY	LINE VOLTAGE	NONE	NA	7

REMARKS:

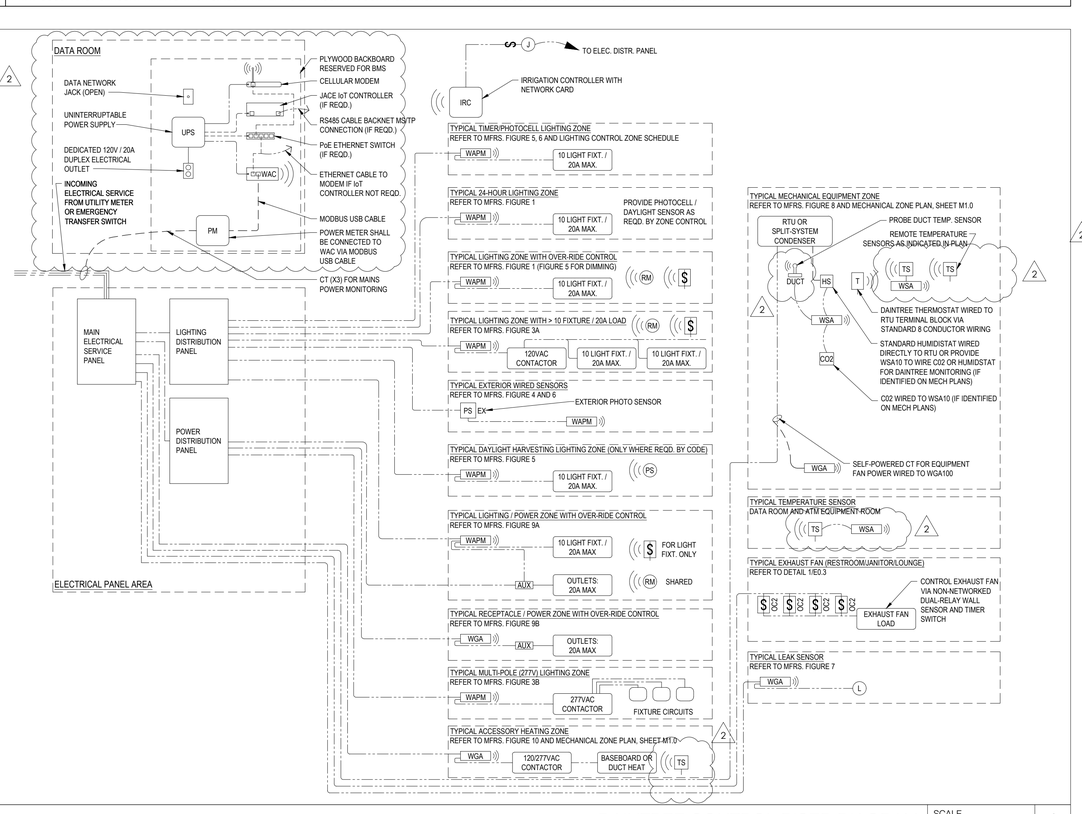
1	PHOTOSENSOR AND AUTOMATIC DIMMING CONTROL LOBBY GENERAL LIGHT FIXTURES (ZONE 10) AND VESTIBULE LIGHT FIXTURES (ZONE 6), AND OTHER ZONES AS SPECIFIED BY CODE, TO BE PROVIDED ONLY WHEN DAYLIGHT HARVESTING OR SIMILAR AUTOMATIC DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS AND AUTOMATIC DIMMING.
2	PROVIDE IN-ROOM WIRELESS MANUAL DIMMER. PROGRAM FOR 50% DIMMING DURING BRANCH HOURS AND 10% DIMMING AFTER BRANCH HOURS.
3	AoR TO ADJUST CONTROLS SPECIFICATION AS REQUIRED TO MEET CODES ENFORCED BY AUTHORITY HAVING JURISDICTION. WHERE SIMPLE OCCUPANCY/VACANCY SENSOR CONTROL IS REQUIRED, LINE VOLTAGE CONTROLS ARE PREFERRED.
4	EXTERIOR SITE POLE, BUILDING-MOUNTED, AND SIGNAGE FIXTURES SHALL HAVE A WWD1 MASTER OVER-RIDE SWITCH LOCATED IN INTERIOR SWITCH BANK NEAR TELLER LINE CONTROLLED VIA WA100-PPM(S).
5	WHERE LINE VOLTAGE CONTROLS ARE IMPLEMENTED IN LIEU OF DAINTREE CONTROLS. PROVIDE PILOT LIGHT SWITCH WHERE FIXTURES ARE NOT VISIBLE FROM THE SWITCH LOCATION.
6	SWITCHING PREFERENCE FOR UTILITYSPACE LIGHTING (EXCEPT DATA) IS FOR FIXTURES WITH INTEGRAL OCCUPANCY SENSORS, AND TO ELIMINATE SWITCHING.
7	4-WAY OCCUPANCY SENSOR / TIMER SWITCH CIRCUIT. REFER TO EXHAUST FAN CONTROL DIAGRAM ON LIGHTING SCHEDULE AND ELECTRICAL DETAILS SHEET.

SYSTEM DESIGN NOTES:

1. E.C. TO CONTACT AND COORDINATE WITH DAINTREE FOR PROGRAMMING OF SYSTEM AND DEVICES.
2. E.C. TO CONTACT CHASE FACILITY MANAGER FOR LIGHTING ZONE CONTROL PROGRAMMING FOR ALL LIGHTING ZONES PRIOR TO COMPLETION.
3. OMIT ZONE CONTROLLER (WAPM, ETC.) FOR LIGHTING ZONES WHERE ALL FIXTURES ARE ZIGBEE PROTOCOL-ENABLED, AS NOTED IN THE LIGHT FIXTURE SCHEDULE
4. LIGHTING AND SIGNAGE ZONE TIMER / PHOTO CELL PROGRAMS SHALL BE SET PER THE BMS LIGHTING CONTROL SCHEDULE BY THE CHASE FACILITY MANAGER THROUGH THE REMOTE CONTROLSCOPE / ALLSITES INTERFACE
5. CELLULAR MODEM, WAC, POWER METER AND UPS PROVIDED BY BMS SYSTEM INTEGRATOR AND INSTALLED BY G.C. AT EACH PROJECT. IoT CONTROLLER AND ETHERNET SWITCH PROVIDED BY BMS SYSTEM INTEGRATOR AND INSTALLED BY G.C. ONLY WHEN REQUIRED BY PROJECTS WITH VAV/VVT/SIMILAR HVAC EQUIPMENT.

BMS DEVICE KEY (APPLIES TO ALL SHEETS)

- S — WIRELESS WALL SWITCH: DAINTREE NETWORKS #WWD1; FUNCTION AS SWITCH AND/OR DIMMER; USE AS MANUAL ON/OFF, MANUAL ON/ AUTO OFF
- RM — WIRELESS OCCUPANCY SENSOR, CEILING RECESSED-MOUNT: DAINTREE NETWORKS #WOS2-RM-E, PIR, 1000 SF COVERAGE
- PS — WIRELESS PHOTOSENSOR, CEILING-MOUNT: DAINTREE NETWORKS #WPS1
- AUX — DAINTREE NETWORKS #RWS-BZ-200 RELAY PACK INSTALLED IN ACCESSIBLE JUNCTION BOX ABOVE CEILING
- WAPM — WIRELESS ADAPTER: DAINTREE NETWORKS #WA100-PM 15A LINE RELAY, 5mA DIMMING CAPACITY (10 DRIVERS TYP.)
- WGA — WIRELESS GENERAL ADAPTER: DAINTREE NETWORKS #WGA100 GENERAL PURPOSE 15A LINE RELAY
- WSA — WIRELESS SENSOR ADAPTER: DAINTREE NETWORKS #WSA10
- L — BMS LOW VOLTAGE WIRED LEAK DETECTOR: BAPI #RBA-BALDT1-PS-BB, WIRED TO WGA100
- CO2 — BMS HARDWIRED CO2 SENSOR: BAPI #BS4-DCD10-BNK, WIRED TO WSA10
- CURRENT TRANSFORMER: DAINTREE #CR9580-10-M WIRED TO WGA100 SINGLE PHASE
- CELLULAR MODEM: DAINTREE #CELL-MDM-VZ-1WAC
- PS EX — WIRELESS OPEN LOOP PHOTO CELL: DAINTREE #CES/OD-24-0-10 PLC 24V EXT. PHOTOCELL - WIRE TO WA100-PM
- WAC — WIRELESS AREA CONTROLLER: DAINTREE #WAC60
- UPS — UNINTERRUPTABLE POWER SUPPLY: 120V, 350VA MIN., PROVIDED BY G.C.
- IRC — OWNER'S IRRIGATION SYSTEM CONTROL PANEL; WEATHERMATIC ENABLED FOR ZIGBEE WIRELESS PROTOCOL, BY OWNER'S LANDSCAPER
- PM — POWER METER: 3-POLE: DAINTREE #RDN-PS303T-S-N 24-POLE: DAINTREE #RDN-PS24-D
- T — BMS WIRELESS THERMOSTAT: DAINTREE NETWORKS #WTS10
- TS — BMS WIRELESS REMOTE TEMP. SENSOR: DAINTREE #TPZRS/HA1.2 (WALL MOUNT)
- TS — BMS WIRELESS REMOTE TEMP. SENSOR: DAINTREE #TPZRS/HA1.2 (CEILING MOUNT)
- HS — BMS LOW VOLTAGE WIRED HUMIDITY SENSOR: VARIS #HEW3VSTA, WIRED TO WSA10
- DUCT — BMS WIRELESS DUCT TEMP. SENSOR: TITAN #TPZDS-S OR SIMILAR
- EQUIP — BMS HARDWIRED EQUIPMENT TEMP. SENSOR: DAINTREE #RBA-BA10K-2-86



DAINTREE CONTROL RISER DIAGRAM

SCALE 1

BUILDING ENERGY MANAGEMENT SYSTEM (BMS) GENERAL INSTALLATION NOTES

1. INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND MEET THE FUNCTIONAL REQUIREMENTS OF THE SYSTEM.

2. CONTROLSCOPE UTILIZES DISTRIBUTED CONTROL FOR ON/OFF AND DIM STATE. EXISTING RELAY PANELS AND LINE-SIDE SWITCHES MUST BE OVERRIDDEN OR REMOVED. ALL WIRELESS ADAPTER MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER.

3. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.

4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
A. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
B. RESET ADAPTER (ALL ADAPTERS)
C. PERFORM PROPER TEST SUITE.

5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: https://products.currentbyge.com/control-systems/daintree-enterprise-wireless-controls

6. DO NOT INSTALL BATTERIES IN WIRLESS DEVICES PRIOR TO APPROVAL FROM GE'S COMMISSIONING LIAISON. INSTALLING BATTERIES MORE THAN 10 DAYS PRIOR TO COMMISSIONING CAN RESULT IN PREMATURE BATTERY FAILURE.

7. TO AVOID FALSE TRIGGERS FROM OCCUPANTS WALKING PAST OPEN DOORS, CARE SHOULD BE TAKEN TO PLACE SENSORS WITH NO OR MINIMAL VIEWING ANGLE THROUGH DOORWAY. IF THE DISTANCE BETWEEN THE DOORWAY AND THE CENTER OF THE ROOM IS LESS THAN 12 FEET, IT IS ADVISABLE TO MOVE THE SENSOR TOWARD THE CORNER OF THE ROOM TO REDUCE THE VIEWING ANGLE THROUGH THE DOORWAY.

DAINTREE MECHANICAL CONTROL

1. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. WSA10 WIRELESS SENSOR ADAPTERS REQUIRE 24V POWER.

2. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.

3. FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE WSA10 MUST BE RECORDED. THE SPECIFIC WSA10 PORT MUST ALSO BE RECORDED PER SENSOR.

4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
A. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
B. RESET ADAPTER (ALL ADAPTERS)
C. PERFORM PROPER TEST SUITE.

5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: https://products.currentbyge.com/control-systems/daintree-enterprise-wireless-controls

6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALL OF DAINTREE AND RELATED COMPONENTS PERTAINING TO IT/DATA, LIGHTING, POWER AND HVAC.

7. THE IoT CONTROLLER AND ASSOCIATED BACNET HARDWARE IS REQUIRED TO PROVIDE CONTROL FUNCTIONS TO VAV, VVT, OR SIMILAR MULTI-ZONED HVAC SYSTEMS. BACNET HARDWARE WILL BE INCLUDED IN THE BMS EQUIPMENT ORDER TO GE-CURRENT/DAINTREE, AND INSTALLED AND PHYSICALLY CONNECTED TO THE BMS UNDER THE GENERAL CONTRACT. INSTALLERS MAY CONTACT THEIR SYSTEM INTEGRATOR FOR INSTALLATION ASSISTANCE.

8. BIDDER ARE TO INCLUDE BACNET HARDWARE & INSTALLATION IN THEIR BIDS.
   8.1. THE INITIAL PROGRAMMING AND COMMISSIONING OF THE CARRIER I-VUE (OR SIMILAR TRANE OR OTHER MANUFACTURER'S SYSTEM) WILL BE PERFORMED BY THE GC'S HVAC TECHNICIAN.
   8.2. POINT INTEGRATION SERVICE FOR THE BACNET HARDWARE WILL BE PERFORMED BY GE-CURRENT FOLLOWING HVAC EQUIPMENT AND CONTROLS COMMISSIONING. THIS MAY REQUIRE AN ON-SITE VISIT BY GE-CURRENT.

CONTROLSCOPE COMMISIONING

1. CONTRACTOR IS RESPONSIBLE FOR CORRECT WIRING, TESTING, AND DOCUMENTATION OF ALL IEEE DEVICE ADDRESSES IN A FORMAT REQUIRED BY THE CONTROLS SUPPLIER.

2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION AND COMMISSIONING EFFORTS WITH THE CONTROLS PROVIDER TO SATISFY THE CONSTRUCTION TIMELINE.

3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIELD LABOR ASSISTANCE TO FACILITATE THE COMMISSIONING EFFORT, INCLUDING BUT NOT LIMITED TO REPAIRING INCORRECT WIRING, LOCATING DEVICES WHERE THE ADDRESSES WERE NOT DOCUMENTED OR NOT LOCATED PROPERLY, AND RESETTING DEVICES.

BMS LIGHTING AND POWER CONTROL AND SENSOR NOTES

1. COORDINATION WITH THE BMS VENDOR IS REQUIRED. THE ARCHITECT/ENGINEER OF RECORD SHALL ADVISE THE VENDOR 30 DAYS IN ADVANCE OF THE BID DATE THAT PROJECT DESIGN HAS COMMENCED. SUBMITTAL FOR VENDOR REVIEW AND COORDINATION MUST BE EXECUTED WITH ADEQUATE TIME TO ALLOW COORDINATION AND ADJUSTMENTS BETWEEN THE ARCHITECT, MECHANICAL ENGINEER AND ELECTRICAL ENGINEER BEFORE BID.

2. WHERE REQUIRE BY AUTHORITIES HAVING JURISDICATION, PROVIDE CONTROL DEVICES AND CIRCUITING AS REQUIRED TO COMPLY WITH ENERGY EFFICIENCY CODE(S) ONLY WHERE APPLICABLE.

3. DESIGNER SHALL CLEARLY INDICATE IN CONSTRUCTION DOCUMENTS THAT THE WIRELESS DEVICE CONTROLS REPLACE TYPICAL HARDWIRED SWITCHING AND WIRING REQUIREMENT, AND THE THE CONDUIT SYSTEM IS NOT REQUIRED FOR THE CONTROL DEVICES ASSOCIATED WITH THE BMS EXCEPT AS NOTED.

4. ZONE Z5 FOR EXTERIOR-FACING INTERIOR SIGNAGE NOT PROVIDED WITH THIS PLAN, BUT WOULD BE REQUIRED FOR WALL-WASH RECESSED CANS AIMED AT SIGNAGE, ILLUMINATED LETTER SETS, ETC.

5. EMERGENCY LIGHT FIXTURES WITH BATTERY PACKS ARE NOT INDICATED FOR SEPARATE ZONE CONTROL, BUT SHALL BE PROVIDED WITH CONTROL DEVICES AS REQUIRED TO SYNCHRONIZE FIXTURE SWITCHING WITH OTHER FIXTURES WITHIN THE SPECIFIED ZONE.

6. FIXTURES WITH INTEGRAL OCCUPANCY SENSORS (UNDERCABINET, ETC.) DO NOT REQUIRE ZONE CONTROL SWITCHING.

7. EXIT LIGHT FIXTURES ARE EXCLUDED FROM BMS ZONE CONTROL.

8. ROOF CENTRIFUGAL EXHAUST FAN IS NOT CONTROLLED BY BMS. REFER TO EXHAUST FAN CONTROL DIAGRAM ON LIGHTING SCHEDULE AND ELECTRICAL DETAILS SHEET FOR HARDWIRED LINE-VOLTAGE CONTROL REQUIREMENTS.

9. LARGE FIXTURE GROUPS TAGGED WITH A COMMON ZONE, SUCH AS THE SITE AREA LIGHT FIXTURES OR LOBBY TROFFERS, ARE TO BE CONTROLLED SIMULTANEOUSLY. CONTROL AND SUB-ZONES ARE TO BE PROVIDED AND CONTROLLED BY RELAY CIRCUITS AS DETERMINED BY THE MAXIMUM NUMBER OF FIXTURES PERMITTED ON A SINGLE CIRCUIT.

10. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT REPORTING AND CONTROL DEVICES.

11. LIGHTING AND SIGNAGE ZONE TIMER / PHOTOCELL PROGRAMS SHALL BE SET PER THE BMS LIGHTING CONTROL SCHEDULE BY THE CHASE FACILITY MANAGER THROUGH THE REMOTE CONTROLSCOPE / ALLSITES INTERFACE.

12. MULTI-POLE CONTACTORS AND RELAYS SHALL BE PROVIDED AS REQUIRED BY THE ELECTRICIAN TO EXECUTE THE DESIGN-INTENT CONTROL CIRCUITING INDICATED IN PLAN.

13. CONTROLLED OUTLETS TO BE PROVIDED ONLY TO THE MINIMUM EXTENT REQUIRED BY APPLICABLE ENERGY CODES. CONTROL SHALL BE PROVIDED BY NEAREST OCCUPANCY SENSOR. OFFICES, AND SIMILAR SPACES SHALL RECEIVE A SINGLE CONTROLLED DUPLEX OUTLET OVER THE DESK. CONFERENCE ROOMS SHALL RECEIVE A SINGLE CONTROLLED DUPLOEX WALL OUTLET. ALL LOBBY AND PRINT ROOM CONVENIENCE RECEPTACLES (NOT ADJACENT TO EQUIPMENT) SHALL BE SPLIT-WIRED TO THE NEAREST OCCUPANCY SENSOR.

14. PROVIDE ONE LEAK DETECTOR IN EACH ROOM WITH A WATER HEATER, SUMP/EJECTOR PUMP, OR (SOLENOID VALVE AND/OR CONDENSATE PUMP IF REQUIRED).

15. PROVIDE ONE TEMPERATURE SENSOR IN EACH ROOM WITH ATMS OR SIMILAR TRANSACTION EQUIPMENT, EXCEPT THE LOBBY OR ANY SIMILAR OPEN SPACE. MECHANICAL PLAN SUPERCEDES.

16. CONTROL AND SENSOR DEVICES MUST NOT BE PLACED ON ANY WALL DESIGNATED FOR AN ACCENT FINISH. DEVICES ARE TO BE PLACES AS NEAR AS THE ENDS OF WALLS AS POSSIBLE, SO AS NOT TO INTERFERE WITH MARKETING MATERIAL POSITIONING.

17. LANDSCAPE IRRIGATION CONTROLLER SALL BE COMPATIBLE WITH THE BMS SYSTEM, AND BE PROVIDED WITH WI-FI CONNECTIVITY. COORDINATE CONTROLLER SPECIFICATION WITH DAINTREE AND LANDSCAPE IRRIGATION SYSTEM VENDOR.

18. THE AoR/EoR SUBMITTAL TO THE BMS VENDOR SHALL BE SUBJECT TO ADJUSTMENT TO COMPLY WITH LOCAL CODE. WHERE DIMMING, CEILING-MOUNTED SWITCH-ON/VACANCY-OFF CONTROLS ARE REQUIRED, LINE VOLTAGE CONTROLS MAY BE USED WHEN APPLICABLE.

19. SUBSTITUTIONS FOR THE SPECIFIED CONTROLS BY THE AoR/EoR OR G.C. ARE NOT PERMITTED.

20. ALL CONCEALED SENSORS, ADAPTERS, AND OTHER COMPONENTS SHALL BE PLACED ABOVE ACCESSIBLE CEILING PANELS.

21. ANY DESIGN-BUILD POSITIONING OF BMS DEVICES THAT DEVIATES FROM THE LOCATION ON THE ENGINEERING OR INSTALLATION DRAWINGS MUST BE DOCUMENTED BY THE ELECTRICIAN AND PROVIDED TO THE AOR FOR INCLUSION IN THE AS-BUILT DRAWINGS.

22. BATTERY-POWERED DEVICES ARE NOT PERMITTED TO BE INSTALLED IN CONCEALED LOCATIONS, INCLUDING ABOVE ACCESSIBLE CEILINGS. DEVICES IN CEILINGS OR OTHER CONCEALED LOCATIONS MUST BE HARDWIRED.

23. ALL DEVICES CONCEALED ABOVE CEILINGS MUST BE POSITIONED SO AS TO BE VISIBLE FROM BELOW.

CHASE

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ENGINEER OF RECORD

STATE OF MISSOURI
JOHN FERGUSON
NUMBER 2008014085
PROFESSIONAL ENGINEER

06/01/2021

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

JOHN FERGUSON, P.E.
MISSOURI
LICENSE #: 2008014085

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

BUILDING MANAGEMENT SYSTEM DETAILS

SHEET NUMBER

E0.1

FIGURE 1: LIGHTING ZONE/CIRCUIT ON/OFF CONTROL

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide automatic On/Off switching of lighting fixture(s).

Driver Type: On/Off (no dimming) | DIP Switches (#4 ON) | Wired Sensor: None

Perform Installation Test Suite 1

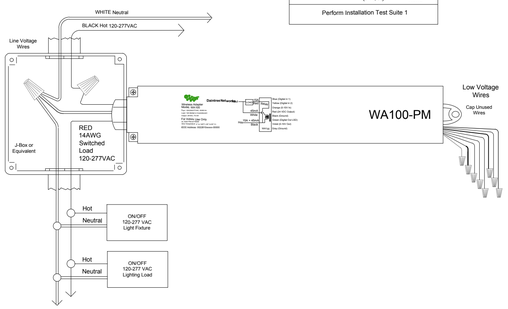


FIGURE 2: LIGHTING ZONE DIMMING WITH PHASE CONVERTOR MODULE

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off/Dimming switching of a branch circuit.

Driver Type: On/Off | DIP Switches (all OFF) | Wired Sensor: None

Perform Installation Test Suite 1

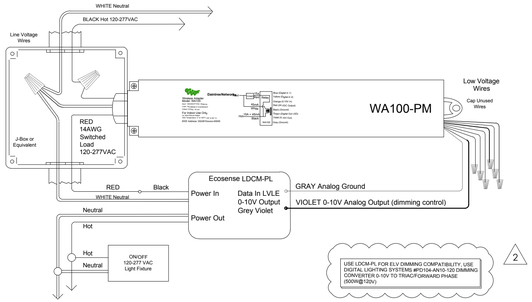


FIGURE 4: WA100-PM WITH (EXTERIOR) PHOTOCELL

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off switching of lighting load(s).

Driver Type: On/Off + 0-10V dimming | DIP Switches (#4 and #6 ON) | Wired Sensor: None

Perform Installation Test Suite 8

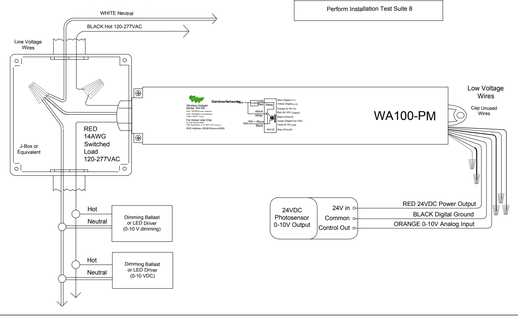


FIGURE 5: DIMMING LIGHT FIXTURE(S) CONFIGURATION

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off/Dimming switching of a branch circuit.

Driver Type: On/Off + 0-10V dimming | DIP Switches (all OFF) | Wired Sensor: None

Perform Installation Test Suite 1

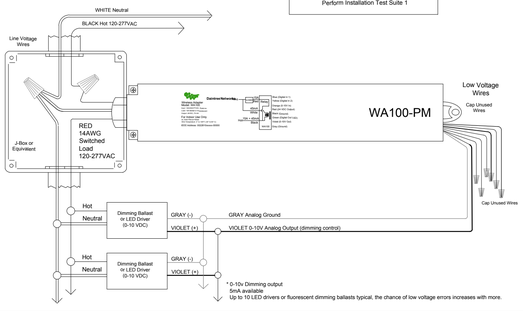


Fig. 6: Dimming Light Fixture(s), Photosensor configuration:

This configuration allows the WA100-PM to provide automatic 0-10V dimming control and to switch light fixtures On/Off.

Driver: On/Off + 0-10V dimming | DIP Switches (6 ON) | Wired Sensor: None

Perform Installation Test Suite 8

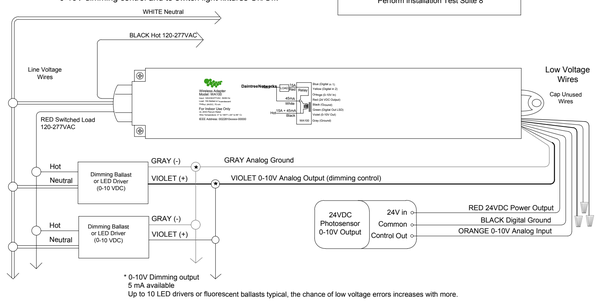


FIGURE 7: WGA100 WITH LEAK DETECTION SENSOR

Ballast Type: On/Off + 0-10V dimming | DIP Switches (#4 ON) | Wired Sensor: None

Perform Installation Test Suite 1

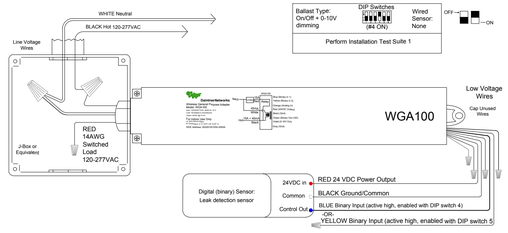
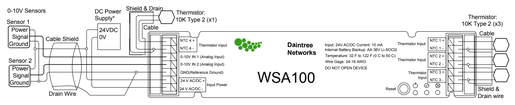


FIGURE 8A: WSA10 FOR HUMIDITY AND CO2 SENSORS



* WA100-PM or WGA100 can be used for this.

FIGURE 8B: WGA100 ANALOG INPUT CONFIGURATION WITH SELF-POWERED FAN CT

Driver Type: On/Off + 0-10V dimming | DIP Switches (#6 ON) | Wired Sensor: None

Perform Installation Test Suite 1

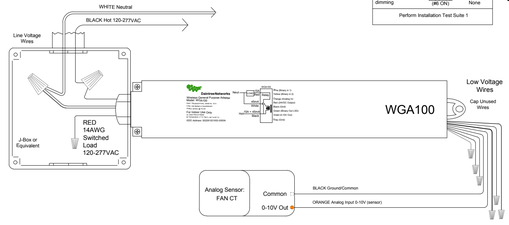


FIGURE 12: 208 V 2-POLE (PHASE-TO-PHASE) WIRING.

Ballast Type: On/Off + 0-10V dimming | DIP Switches (all OFF) | Wired Sensor: None

Perform Installation Test Suite 1

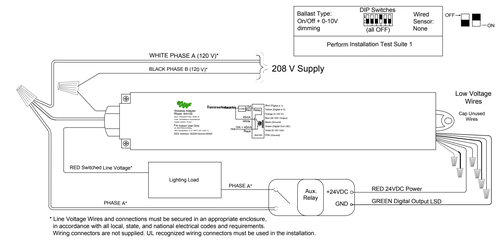
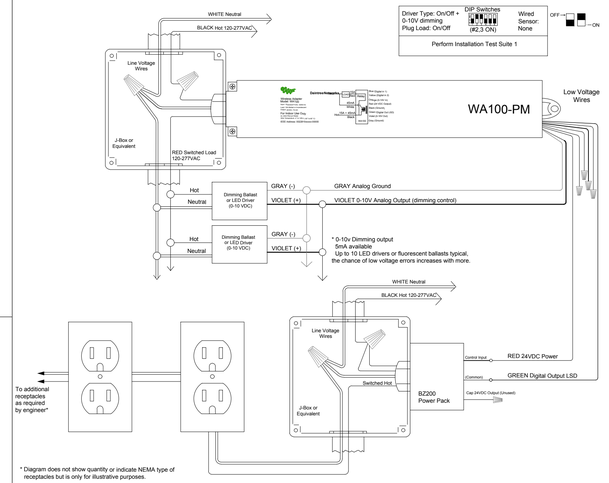


FIGURE 9A: WA100-PM DIMMING CONFIGURATION W/ AUXILIARY RELAY FOR PLUG LOAD CONTROL

Driver Type: On/Off + 0-10V dimming Plug Load: On/Off | DIP Switches (#2,3 ON) | Wired Sensor: None

Perform Installation Test Suite 1



* Diagram does not show quantity or indicate NEMA type of receptacles but is only for illustrative purposes.

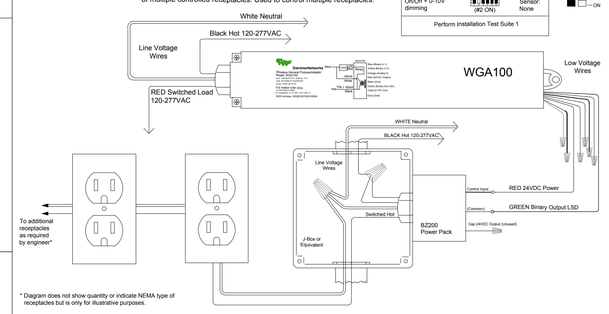
FIGURE 9A: WA100-PM DIMMING CONFIGURATION W/ AUXILIARY RELAY FOR PLUG LOAD CONTROL

On/Off (non-dimming) Line Voltage Load with auxiliary power pack.

This configuration allows the WGA100 to provide automatic On/Off switching of multiple controlled receptacles. Used to control multiple receptacles.

Ballast Type: On/Off + 0-10V dimming | DIP Switches (#2 ON) | Wired Sensor: None

Perform Installation Test Suite 1



* Diagram does not show quantity or indicate NEMA type of receptacles but is only for illustrative purposes.

FIGURE 10: 15A NON-LIGHTING LOAD CONFIGURATION

Driver Type: On/Off + 0-10V dimming | DIP Switches (#1 ON) | Wired Sensor: None

Perform Installation Test Suite 1

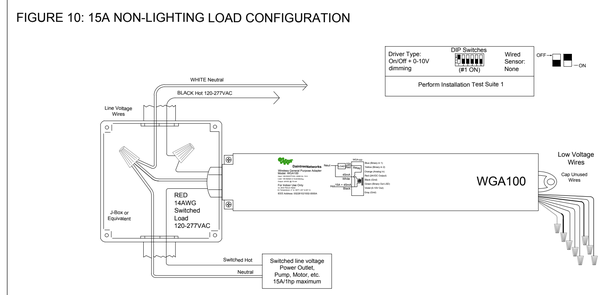
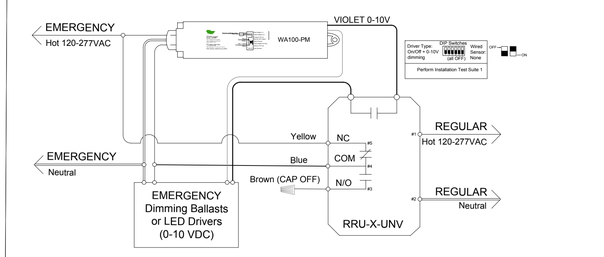


FIGURE 11: WA100-PM DIMMING CONFIGURATION FOR EMERGENCY ZONES USING SHUNT RELAY RRU-X-UNV



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ENGINEER OF RECORD

06/01/2021

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-	2020.12.21	PERMIT SET
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2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

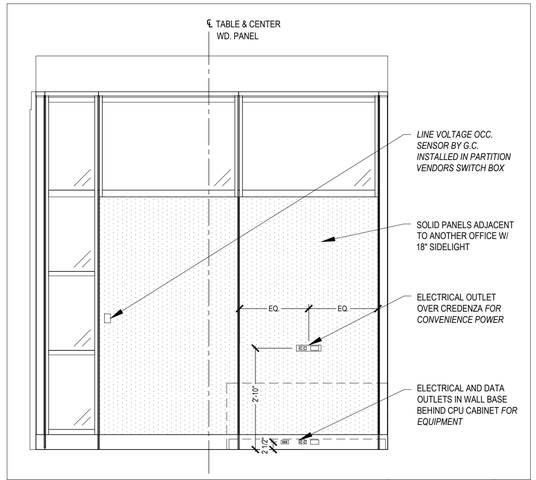
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

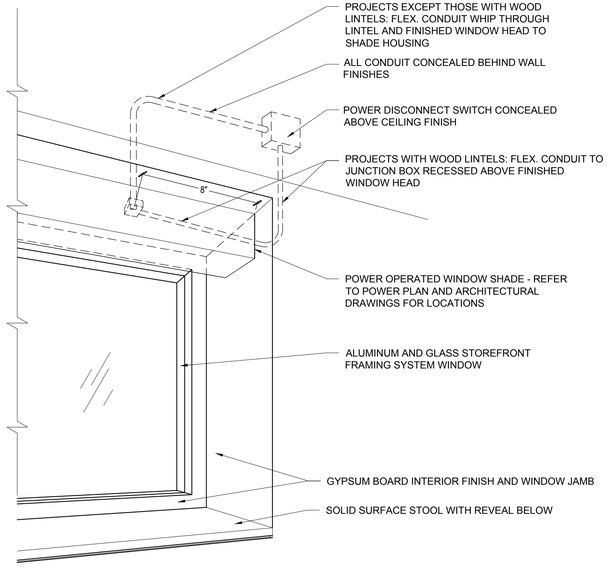
BMS DEVICE WIRING DIAGRAMS

SHEET NUMBER

E0.2



TYPICAL OFFICE WALL ELEVATION | SCALE 1/2" = 1' | 3



AS PER MANUFACTURER INSTALLATION REQUIREMENTS, SHADES ARE PROVIDED WITH A QUICK CONNECT SYSTEM FOR CONNECTION/DISCONNECTION. POWER CABLE CONNECTS DIRECTLY TO A QUICK CONNECT. ELECTRICAL SERVICE TO SHADE MOTOR REQUIRED AT RIGHT SIDE OF WINDOW OPENING AS VIEWED FROM THE BUILDING INTERIOR. AS PER MANUFACTURER , ELECTRICIAN IS RESPONSIBLE TO COMPLY WITH NEC AND ANY APPLICABLE LOCAL CODES RELEVANT TO A DISCONNECTING MEANS.

MOTORIZED SHADE POWER DETAIL | SCALE NTS | 2

LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER	CATALOG NUMBER	QUANTITY	MOUNTING	VOLT	VA	LAMP DATA	DESCRIPTION
CL1	C-LITE	C-CP-B-SQ-4L-50K-WH	2	CANOPY RECESSED	120	36	5000K LED	EXTERIOR DRIVE-UP SEMI-RECESSED 36W 5000K LED DOWNLIGHT
L2	GE	LBT220A033MM835VQLTWHTE	13	RECESSED	120	26	3500K LED	2X2 RECESSED LENSED 3500K LED TROFFER
L2-EM	GE	LBT220A033MM835VQLTWHTE-EL	10	RECESSED	120	26	3500K LED	L2 FIXTURE WITH EMERGENCY LIGHT DRIVER
L3	FINELITE	(2) UC-E-22"-SILVER-PS-21W-OCC	4	UNDERCABINET	120	(2) 21	3500K LED	(2) 22" LED UNDERCABINET LIGHT W/ OCCUPANCY SENSOR
L4	LUMIERE	9004-W2-RW-LED-4080-W-W-CS-L1-UNV-WIS	6	WALL SCONCE	120	(2) 10	4000K	LANTERRA UP/DOWN SCONCE WITH INTEGRAL LED DRIVER
L5	IGUZZINI	I.BU27-REM-01 + 4549-0350-019-UNV-ED10	2	WALL	120	6	3000K	TRICK 360° BLADE EFFECT-90mm WITH CUSTOM BLUE LAMP, WHITE, SINGLE REMOTE 19W 0-10V DIMMING POWER SUPPLY SHARED BY TWO FIXTURES, SCREEN LENS TO ILLUMINATE ADJ. WALL AND CEILING ONLY
L7R	LF ILLUMINATION	5811-1SA-T-20L-8040-W-D2-1-BB	1	CANOPY RECESSED	120	9.4	4000K LED	4" ROUND LED LENSED DOWNLIGHT - WET RATED (FOR INSTALLATIONS IN MAPES ENTRANCE CANOPY)
L7R-EM	LF ILLUMINATION	5811-1SA-T-20L-8040-W-D2-1-BB-EM	4	CANOPY RECESSED	120	9.4	4000K LED	L7 FIXTURE CONNECTED TO EMERGENCY INVERTER - REFER TO ELECTRICAL LIGHTING PLAN FOR INVERTER INFORMATION
L8	GE	ALC6-1-4Y04-T-C8-1D-S-Q-Q-Q-Q-[ST/51]-[K/A]-Q-W	1	SUSPENDED	120	27	3500K LED	SURFACE MOUNT AT CEILINGS UP TO 10'. CABLE-MOUNT AT CEILINGS OVER 10'
L8-EM	GE	ALC6-1-4Y04-T-C8-1D-S-Q-Q-Q-E-[ST/51]-[K/A]-Q-W	1	SUSPENDED	120	27	3500K LED	L8 FIXTURE WITH EMERGENCY BATTERY BACKUP
L11G	AMERLUX	(HOUSING) HDL-HP-R-NC-A17-T-18-120-0-10V (TRIM) HDL-HP-RD-A17-T-MWW-VWF-359	10	CANOPY RECESSED	120	18	3500K LED	4" ROUND LED LENSED DOWNLIGHT, PROVIDE MATTE WHITE FLANGE (MWW) IN GRID CEILINGS
L11W	AMERLUX	(HOUSING) HDL-HP-R-NC-A17-T-18-120-0-10V (TRIM) HDL-HP-RD-A17-T-MBB-VWF-359	6	CANOPY RECESSED	120	18	3500K LED	4" ROUND LED LENSED DOWNLIGHT, PROVIDE MATTE BLACK FLANGE (MBB) IN WOOD ACCENT CEILINGS
L20	BEST LIGHTING	EZXTEU-1-RW-EMRC	6	UNIVERSAL	120	4	LED	UNIVERSAL MOUNT SINGLE FACE LED EXIT SIGN WITH 90 MIN BATTERY BACKUP
L20 ALT.	ENCORE UNO-SERIES	X-1-C-U	-	UNIVERSAL	120	3	LED	EDGE-LIT SINGLE FACE LED EXIT SIGN WITH 90 MIN BATTERY BACKUP
L22	LITHONIA	ZL1N-L24-1500LM-FST-MVOLT-35K-80CRI-WH-LSXR	2	WALL	120	18	3500K LED	2' LED LENSED UTILITY LIGHT W/ OCCUPANCY SENSOR
L308	PHILIPS COLOR KINETICS	223-000004-02	88	LED STRIP	120	6/FT.	3500K LED	12" 'eW COVE QLX POWERCORE' RIGID BLUE LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE MOUNTING TRACK MODEL #120-000125-00 OR EQ. TO MINIMIZE BLEEDING THROUGH TILE
L308 ALT.	ECOSENSE	L35-I-12"-06-BL-MULT-120	-	LED STRIP	120	6/FT.	3500K LED	12" 'TROVE' MULT (120V-220V) BLUE LED STRIP, WHERE MOUNTED ABOVE ACT-3, USE MOUNTING TRACK MODEL #1MNT-L-TRKCLIP-12 OR EQ. TO MINIMIZE BLEEDING THROUGH TILE
L410	KUZCO	PD46216-BK	4	PENDANT	120	40	3000K LED	16" DIAMETER BLACK POWDER COAT FINISH, INTEGRAL LED DRIVER, INSTALLED AT 82" AFF TO BOTTOM OF FIXTURE; SET DIMMING PER BMS ZONE CONTROL SCHEDULE
L411	TUDO	LARGE SPINNING TEARDROP CEILING PENDANT	3	PENDANT	120	60	LED	15.75" DIAMETER, MATTE BLACK, 840 LED LAMP, ELV DIMMING, INSTALLED AT 66" AFF TO BOTTOM OF FIXTURE
L413	SONNEMAN	2754.25-G	1	PENDANT	120	10	LED	KOMO EDO PENDANT - 22" DIAMETER, BLACK SATIN FINISH, ELV DIMMING, INSTALLED 82" AFF TO BOTTOM OF FIXTURE
L500	AMERLUX	GRUV4-HE-GRID-A16-PL-5-35-HW-120/277-X-CUS-0-10V	21	RECESSED	120	5/FT.	3500K LED	LINEAR LED, 4" WIDE, RECESSED IN GRID CHANNELS, 2' MINIMUM LENGTH. X=FIXTURE LENGTH(2-8 FEET LONG)
L500-EM	AMERLUX	GRUV4-HE-GRID-A16-PL-5-HW-120/277-X-CUS-0-10V-EMC-PF	7	RECESSED	120	5/FT.	3500K LED	L500 FIXTURE W/ EMERGENCY BATTERY PACK (90 MINUTES)
SL1	GE	EACL-01-0-F4-AF-7-40-N-1-C1-DKBZ-4000K	2	POLE	120	125	4000K LED	POLE MOUNTED 4000K LED - 24' POLE
SL2	GE	EACL-01-0-F4-AF-7-40-N-1-C1-DKBZ-4000K	4	POLE	120	125	4000K LED	POLE MOUNTED 4000K LED - 15' POLE

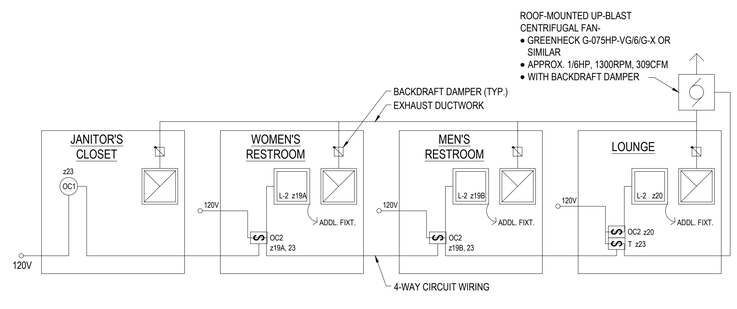
2

EXHAUST DIAGRAM SYMBOLS

S OC2 — WALL-MOUNT SINGLE-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH SWITCH: WATTSTOPPER #DSW-302

T S — PUSH-BUTTON LINE VOLTAGE 5/10/15/30-MINUTE TIMER: WATTSTOPPER #TS-400

OC1 — CEILING MOUNTED OCCUPANCY SENSOR, PASSIVE INFRARED, WITH 3-WAY MANUAL OVER-RIDE SWITCH: WATTSTOPPER #CI-355



EXHAUST FAN CONTROL DIAGRAM | SCALE NTS | 1

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PROJECT INFORMATION

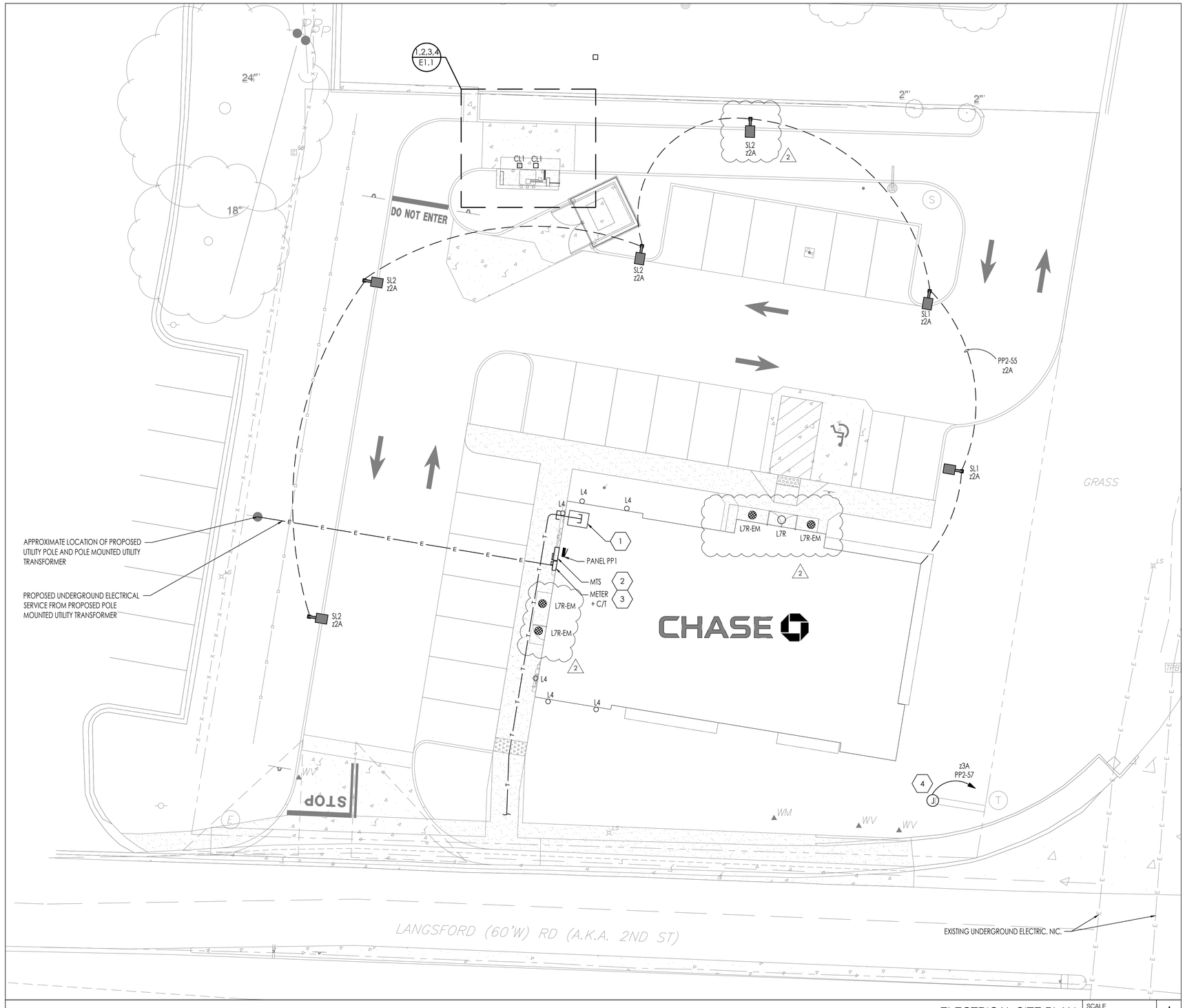
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

LIGHTING SCHEDULE AND ELECTRICAL DETAILS

SHEET NUMBER

E0.3



ELECTRICAL SITE PLAN | SCALE 3/32" = 1' | 1

ELECTRICAL GENERAL NOTES:

- REFER TO CIVIL SITE LIGHTING DRAWINGS FOR EXACT LOCATION AND TYPE OF SITE LIGHTING.
- PROVIDE 2#10, 1#10G, 3/4"C FEEDERS FOR ALL AREA LIGHT CONDUIT RUNS. CONTRACTOR TO VERIFY AND UPSIZE WIRES IF REQUIRED.
- REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION REGARDING EXTERIOR WALL MOUNTED FIXTURES AND CANOPY LIGHTING.
- REFER TO LIGHTING SCHEDULES AND ELECTRICAL DETAILS SHEET FOR LIGHTING FIXTURE SCHEDULE AND ADDITIONAL INFORMATION.
- REFER TO BUILDING MANAGEMENT SYSTEM LIGHTING ZONE CONTROL SCHEDULE ON BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ALL WIRING CONNECTIONS AND REQUIREMENTS.
- FOR ELECTRICAL SERVICE, ELECTRICAL CONTRACTOR TO PROVIDE PULLBOXES AS REQUIRED BY APPLICABLE CODES, AHJ REQUIREMENTS AND UTILITY REQUIREMENTS. PULLBOXES SHALL BE SUITABLE FOR EACH SPECIFIC APPLICATION (TRAFFIC RATED, UNDERGROUND, ETC.)

ELECTRICAL KEYNOTES:

1. ROUTE (2) 2" CONDUITS WITH PULL STRINGS FOR TELEPHONE TO DATA ROOM. COORDINATE FINAL STUB-UP LOCATIONS WITH TELEPHONE PROVIDER PRIOR TO INSTALLATION.
2. REFER TO POWER RISER DIAGRAM LOCATED ON POWER DETAILS AND SCHEDULES SHEET FOR ROUGH-IN REQUIREMENTS OF TRANSFER SWITCH.
3. FINAL LOCATION OF MTS IS TO BE DECIDED BETWEEN BUILDING OWNER, ELECTRICAL CONTRACTOR, AND UTILITY.
4. REFER TO ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR SIGN LOCATION. JUNCTION BOX PROVIDED FOR MONUMENT SIGNAGE. FIELD COORDINATE ROUGH-IN REQUIREMENTS WITH SIGNS TO BE INSTALLED AND ADJUST ACCORDINGLY. PROVIDE DISCONNECTING MEANS AS REQUIRED. PROVIDE WHIP TO SIGNAGE LOCATION AS REQUIRED BY LANDLORD AND AS REQUIRED BY CODE.

REFER TO RISER DIAGRAM FOR ALL COORDINATION INVOLVING ELECTRICAL SERVICE. DEDICATED ELECTRICAL SERVICE HAS NOT BEEN FINALIZED. ALL INFORMATION REGARDING ELECTRICAL SERVICE IS SUBJECT TO CHANGE PENDING COORDINATION WITH UTILITY COMPANY.

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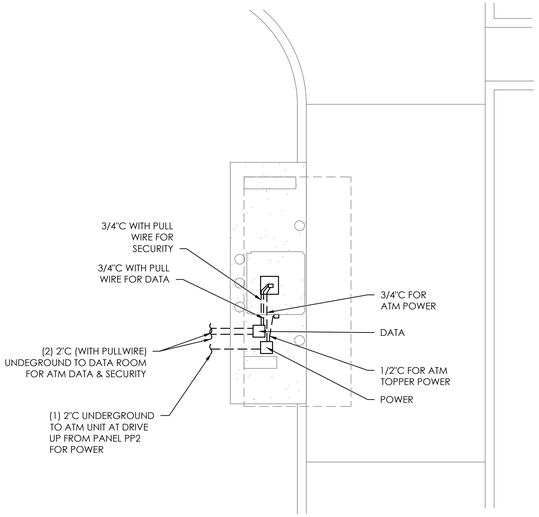
VERSION:	SE_1.00

SHEET TITLE

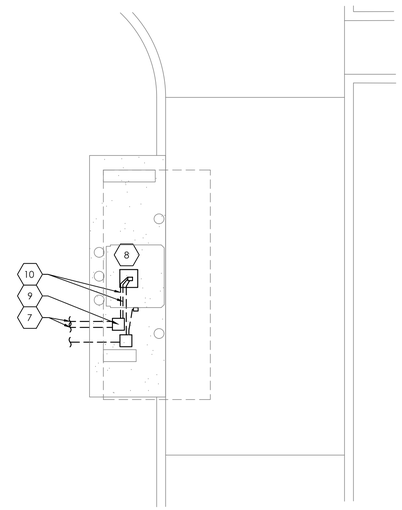
ELECTRICAL SITE PLAN

SHEET NUMBER

E1.0



DRIVE THRU CONDUIT PLAN | SCALE 1/4"=1'-0" | 4



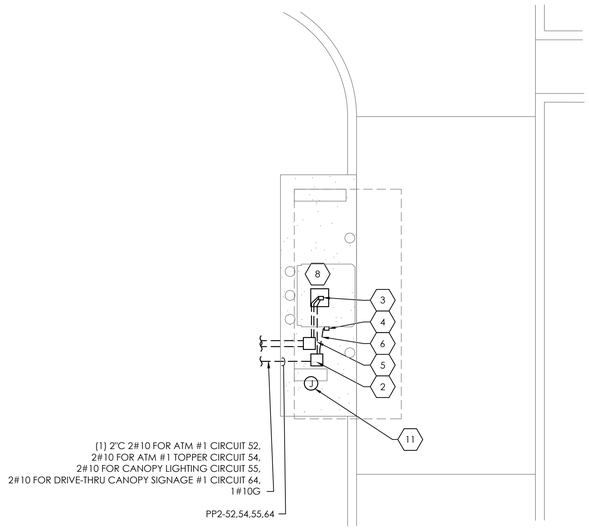
DRIVE THRU SYSTEMS PLAN | SCALE 1/4"=1'-0" | 3

ELECTRICAL GENERAL NOTES:

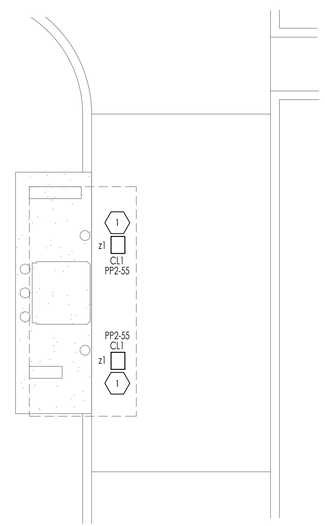
- REFER TO LIGHTING SCHEDULES AND ELECTRICAL DETAILS SHEET FOR LIGHTING FIXTURE SCHEDULE AND ADDITIONAL INFORMATION.
- REFER TO DRAWING BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR BMS LIGHTING CONTROL ZONE SCHEDULE.

(#) ELECTRICAL KEYNOTES:

1.	CANOPY FIXTURES ARE TO BE CONTROLLED BY OUTDOOR PHOTOCELL, DAINTREE #RLV-ODC0P-W. REFER TO BUILDING MANAGEMENT SYSTEMS DETAILS SHEET FOR ADDITIONAL INFORMATION.
2.	POWER PULL BOX - 8"X8"X6" PVC PULL BOX WITH SIDEWALK RATED GASKET TOP SECURED WITH SCREWS.
3.	ATM PULL BOX - 12"X12"X6" PVC PULL BOX MOUNTED FLUSH IN CONCRETE.
4.	ATM TOPPER PULL BOX - 2"X4"X2" PVC PULL BOX MOUNTED FLUSH IN CONCRETE.
5.	3/4" CONDUIT FROM POWER PULL BOX TO ATM PULL BOX FOR POWER TO ATM. PROVIDE 3/4" NON-METALLIC LIQUID-TIGHT CONDUIT FOR POWER INTO ATM.
6.	1/2" CONDUIT FROM POWER PULL BOX THROUGH ATM PULL BOX TO ATM TOPPER PULL BOX FOR POWER TO ATM TOPPER. PROVIDE 1/2" NON-METALLIC LIQUID-TIGHT CONDUIT FOR POWER INTO ATM TOPPER.
7.	(2) 2"CONDUIT WITH PULLWIRE FROM ATM TO DATA ROOM. ATM CONDUIT AND PULLWIRE TO TERMINATE UNDER CEILING SLEEVES IN DATA ROOM. REFER TO THE UNDERGROUND CONDUIT PLAN SHEET.
8.	REFER TO UNDERGROUND CONDUIT PLAN FOR UNDERGROUND CONDUIT AND CABLING ROUTING FOR DEVICES IN THIS AREA.
9.	DATA PULL BOX 8"x8"x6" PVC PULL BOX WITH SIDEWALK RATED GASKET TOP SECURED WITH SCREWS.
10.	(2) 3/4" CONDUITS WITH PULLWIRE FROM DATA PULL BOX TO ATM PULL BOX FOR DATA AND SECURITY TO ATM. PROVIDE 3/4" NON-METALLIC LIQUID TIGHT CONDUIT FOR DATA AND SECURITY INTO ATM.
11.	PROVIDE JUNCTION BOX FOR OCTAGON SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH E.C. AND SIGN MANUFACTURER PRIOR TO ROUGH-IN.



DRIVE THRU POWER PLAN | SCALE 1/4"=1'-0" | 2



DRIVE THRU LIGHTING PLAN | SCALE 1/4"=1'-0" | 1

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01/19/2021

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

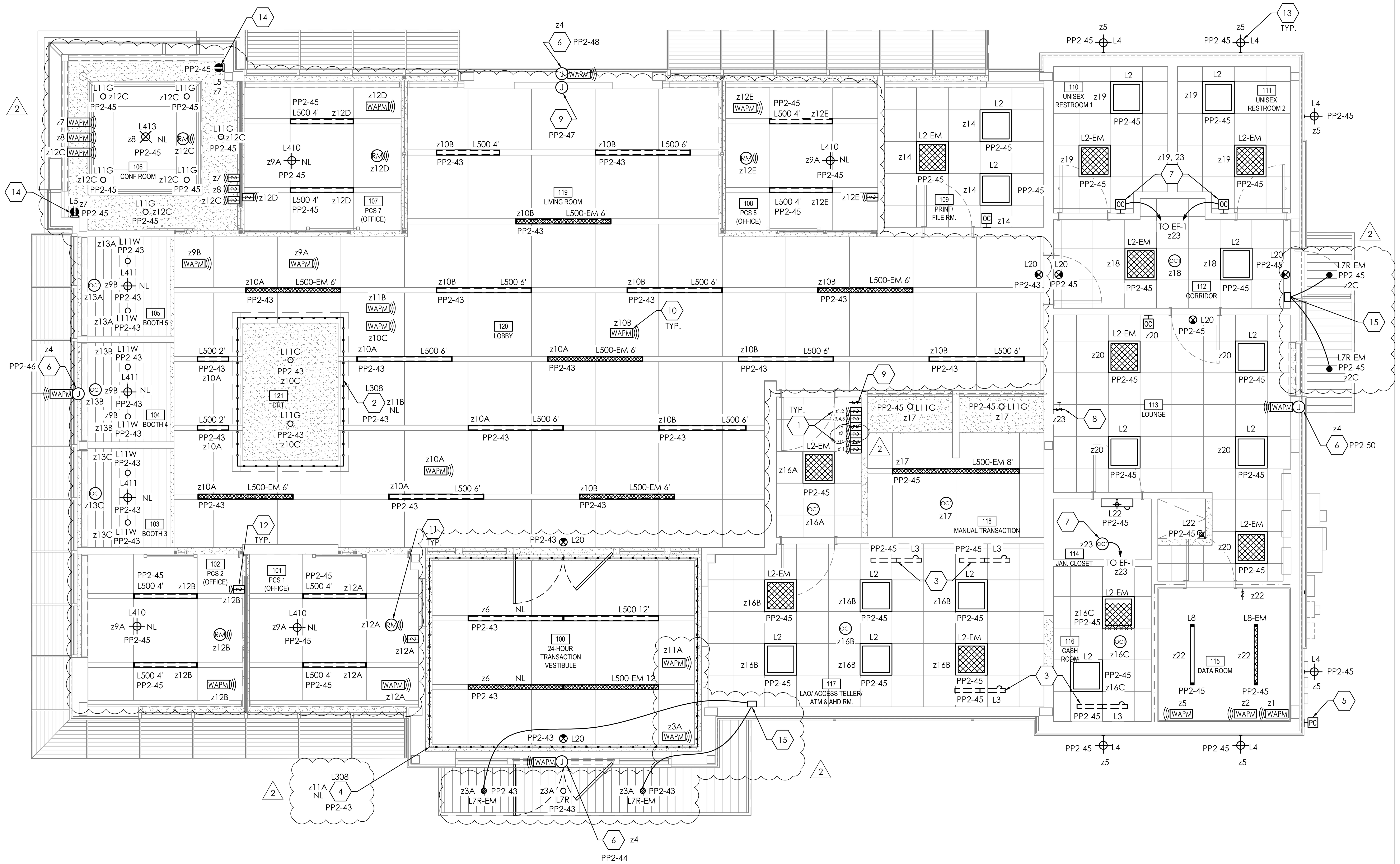
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

DRIVE-THRU PLANS

SHEET NUMBER

E1.1



LIGHTING PLAN 1

SCALE 1/4" = 1'

ELECTRICAL GENERAL NOTES:

- REFER TO LIGHTING SCHEDULES AND ELECTRICAL DETAILS SHEET FOR LIGHTING FIXTURE SCHEDULE AND ADDITIONAL INFORMATION.
- REFER TO BUILDING MANAGEMENT SYSTEM LIGHTING ZONE CONTROL SCHEDULE ON BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ALL WIRING CONNECTIONS AND REQUIREMENTS.
- ALL LIGHTS LABELED "NL" ARE NIGHT LIGHTS THAT ARE TO BE CONNECTED UNSWITCHED.
- ALL EXIT LIGHTS "L20" SHALL BE CONNECTED TO THE CIRCUIT INDICATED ON THE LINE SIDE OF THE LOCAL LIGHTING SWITCH.
- ALL EMERGENCY BATTERY FIXTURES (HATCHED FIXTURES) SHALL BE CONTROLLED BY THE LOCAL LIGHTING SWITCH AS INDICATED. EXTEND BATTERY WIRING TO THE LINE SIDE OF THE LOCAL LIGHTING SWITCH AND CONNECT FOR PROPER EMERGENCY BALLAST OPERATION.
- ALL PENDANT FIXTURES IN THE PUBLIC LOBBY AREA ARE TO BE CONNECTED TO A CONSTANT-ON CIRCUIT. EXACT LOCATIONS OF PENDANT FIXTURES ARE TO BE COORDINATED WITH THE ARCHITECTURAL FURNITURE LAYOUT.
- SECURELY FASTEN EACH RECESSED GRID LIGHT FIXTURE TO THE CEILING SYSTEM WITH APPROPRIATE SUPPORT BRACKETS AND CLIPS PER INDUSTRY STANDARDS, CODE AND ALL LOCAL CODES.
- A MAXIMUM OF 3 HOMERUNS MAY BE GROUPED TOGETHER IN ONE CONDUIT AND SHARE A COMMON NEUTRAL PROVIDED THE HOMERUNS ARE DIFFERENT PHASES. IF BRANCH CIRCUITS ARE GROUPED THEY MUST ALL BE CONTROLLED BY THE SAME MULTI-POLE BREAKER PER NEC.210.4.

ELECTRICAL KEY NOTES:

1. SWITCHBANK FOR BI-LEVEL CONTROL OF LOBBY LIGHTING WITH MANUAL DIMMERS. 4-GANG BOX NOT REQUIRED. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. NUMBERS NEXT TO SWITCHES INDICATE THE LIGHTING ZONE BEING CONTROLLED. REFER TO BMS LIGHTING ZONE CONTROL SCHEDULE ON THE BUILDING MANAGEMENT SYSTEM DETAIL SHEET FOR ADDITIONAL INFORMATION.
2. PROVIDE LED COVE ACCENT LIGHTING, TYPE L308 (BLUE), AS SHOWN. LIGHTING TO BE INSTALLED IN CEILING BRIM COVE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. CIRCUIT AS NIGHT LIGHTS.
3. UNDERCABINET LIGHT FIXTURES. VERIFY EXACT QUANTITY OF FIXTURES REQUIRED PRIOR TO INSTALLATION. LIGHTING FIXTURE "L3" IS PROVIDED WITH AN INTEGRAL OCCUPANCY SENSOR. DO NOT CONNECT TO WALL MOUNTED OCCUPANCY SENSOR OR SWITCHES. ROUTE LOW VOLTAGE LIGHT FIXTURE CIRCUITRY THROUGH WALL TO FIXTURE DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
4. PROVIDE LED COVE ACCENT LIGHTING, TYPE L308 (BLUE), AS SHOWN. LIGHTING TO BE INSTALLED IN VESTIBULE CEILING COVE. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. CIRCUIT AS NIGHT LIGHTS.
5. PROVIDE OUTDOOR PHOTOCELL, MOUNTED ON EXTERIOR WALL, EXACT LOCATION AND MOUNTING HEIGHT TO BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH-IN. MOUNT AWAY FROM LIGHT SOURCES.
6. JUNCTION BOX ON THE INSIDE OF EXTERIOR WALL FOR BUILDING SIGN, REFER TO ARCHITECTURAL ELEVATIONS FOR SIGN LOCATIONS, FIELD COORDINATE ROUGH-IN REQUIREMENTS WITH SIGNS TO BE INSTALLED AND ADJUST ACCORDINGLY. PROVIDE DISCONNECTING MEANS AS REQUIRED.
7. INTERLOCK RESTROOMS AND JANITOR CLOSET LIGHTING AND EXHAUST FAN WITH WALL MOUNTED OCCUPANCY SENSOR. LIGHTING AND EXHAUST FAN TO BE POWERED SEPARATELY. REFER TO POWER PLAN, ROOF POWER PLAN AND MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
8. EXHAUST FAN TO BE INTERLOCKED WITH 3-WAY PRESET PUSH BUTTON TIMER SWITCH. REFER TO EXHAUST FAN CONTROL DIAGRAM, POWER PLAN AND MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
9. PROVIDE JUNCTION BOX ABOVE CEILING WITH MULTIPLE FLEXIBLE CONDUIT TERMINATIONS IN WALL BELOW FOR SIGNAGE ELECTRICAL CONNECTION. COORDINATE EXACT LOCATION AND TERMINATION LOCATIONS WITH CHASE SIGNAGE VENDOR SHOP DRAWINGS AND ADDITIONAL REQUIREMENTS. FIELD COORDINATE ROUGH-IN REQUIREMENTS WITH SIGN TO BE INSTALLED AND ADJUST ACCORDINGLY. CONNECT SIGN TO SPDT WALL SWITCH LOCATED AT MANUAL TRANSACTION AREA FOR MANUAL CONTROL OF SIGNAGE.
10. PROVIDE DIMMING ROOM WIRELESS ADAPTER, DAINTREE #WA100-PM SERIES, REFER TO BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ADDITIONAL INFORMATION. ADAPTER CONTROLS UP TO 10 LUMINAIRES.
11. PROVIDE BATTERY POWERED CEILING RECESSED OCCUPANCY SENSOR, DAINTREE #WOS2-RM-E SERIES, REFER TO BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ADDITIONAL INFORMATION.
12. PROVIDE WIRELESS WALL DIMMER, DAINTREE #WWD1 SERIES, REFER TO DETAILS ON THE BUILDING MANAGEMENT SYSTEM DETAIL SHEET FOR ADDITIONAL INFORMATION.
13. REFER TO EXTERIOR ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL MOUNTED LIGHTING FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
14. WALL MOUNTED ACCENT LIGHT FIXTURE. PAIR LOW-VOLTAGE FIXTURE IN FLUSH WALL FIXTURE BOX. CONNECT TO REMOTE DRIVER AND WAPM DAINTREE ADAPTER CONCEALED ABOVE CEILING. COORDINATE WITH MANUFACTURER FOR ALL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
15. EMERGENCY CANOPY FIXTURES TO BE CONNECTED TO LF ILLUMINATION EMERGENCY INVERTER MODEL LF#EMREM50. CONTRACTOR TO VERIFY FINAL LOCATION OF INVERTER WITH OWNER. LF #EMREM50 EMERGENCY LIGHTING INVERTER IS UNIT EQUIPMENT THAT TRANSFORMS LED FIXTURES UP TO 50W INTO CODE COMPLIANT EMERGENCY LIGHTING FIXTURES.

LIGHTING NOTES:

- LIGHTING SHALL BE ORDERED THROUGH:

  FSG -JPMCRetail Team
  Isaiah Ramden
  Tel: (888) 671-4074
  E-mail: jpmc@fsgi.com
  Website: www.fsgi.com

- ELECTRICAL CONTRACTOR TO PURCHASE WHOLE DAINTREE SYSTEM WITH INPUT FROM MECHANICAL CONTRACTOR. COORDINATE AS REQUIRED BETWEEN THE TRADES. ELECTRICAL CONTRACTOR TO CONFIRM ALL ORDER REQUIREMENTS WITH MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH DAINTREE FOR PROGRAMMING OF SYSTEM AND DEVICES. IF THERE ARE SPECIFIC QUESTIONS REGARDING THE DAINTREE CONTROL SYSTEM AND ADDITIONAL INFORMATION, PLEASE CONTACT:

  Current, powered by GE
  Bob Flannery
  Tel: 312-550-6554
  E-mail: robert.flannery@gecurrent.com

  Travis Lynch
  Tel: 216-212-7558
  E-mail: Travis.Lynch@gecurrent.com

  FOR GENERAL SUPPORT:
  E-mail: JPMCcontrols@gecurrent.com

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ENGINEER OF RECORD

06/01/2021

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JOHN FERGUSON, P.E.
MISSOURI
LICENSE #: 2008014085

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

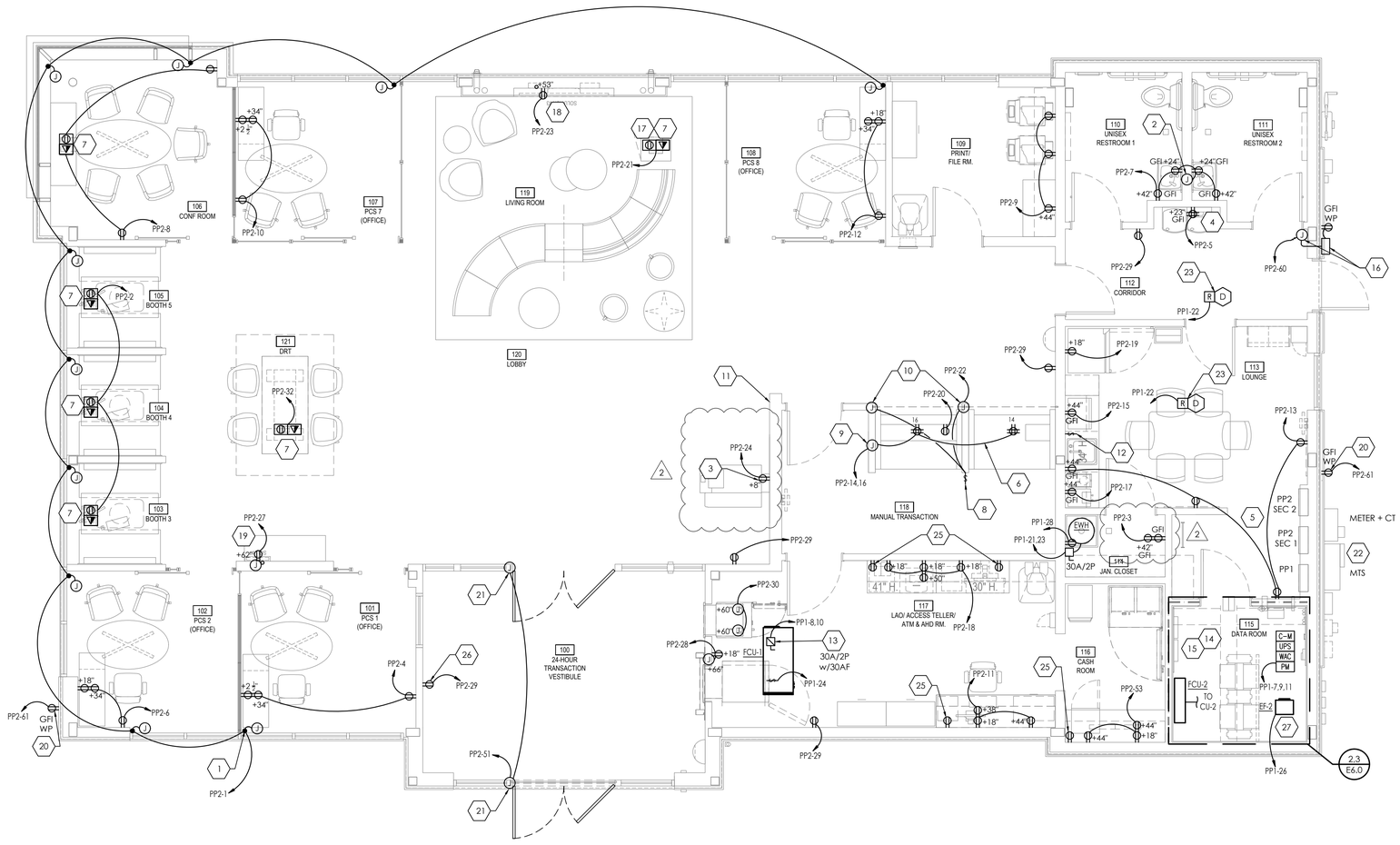
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

E2.0



POWER PLAN | SCALE 1/4" = 1' | 1

ELECTRICAL GENERAL NOTES:

- ALL POWER CONNECTIONS TO FURNITURE (IF APPLICABLE) ARE TO BE BY THE ELECTRICAL CONTRACTOR. FINAL DATA/COMMUNICATION CABLING AND CONNECTIONS ARE TO BE BY OTHERS. COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE FURNITURE SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
- FAN COIL UNIT 2 SHALL BE POWERED THROUGH THE CORRESPONDING CONDENSING UNIT. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
- REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS AND MOUNTING HEIGHTS FOR RECEPTACLES.

(#) ELECTRICAL KEYNOTES:

1. MOTORIZED SHADE INSTALLATION, REFER TO THE MOTORIZED SHADE POWER DETAIL FOR ROUGH-IN REQUIREMENTS. PROVIDE APPROPRIATE ROUGH-INS AND FINAL CONNECTIONS TO MOTORIZED SHADES. FIELD COORDINATE EXACT REQUIREMENTS WITH INSTALLING CONTRACTOR AND ADJUST ACCORDINGLY.
2. PROVIDE POWER TO JUNCTION BOX MOUNTED 1'-0" ABOVE CEILING FOR AUTO FAUCET TRANSFORMER PROVIDED BY OTHERS. FIELD COORDINATE EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN AND ADJUST ACCORDINGLY.
3. ROUTE POWER CONDUIT THROUGH RACEWAY TO SURFACE MOUNTED ATM AS SHOWN. COORDINATE WITH ATM MANUFACTURER FOR ALL INSTALLATION REQUIREMENTS PRIOR TO INSTALLATION.
4. COORDINATE ROUGH-IN LOCATION FOR DRINKING FOUNTAIN RECEPTACLES WITH SHOP DRAWINGS.
5. MAINTAIN REQUIRED CLEARANCES FOR ALL ELECTRICAL PANELS PER THE NEC SECTION 110.26. REFER TO POWER RISER DIAGRAM LOCATED ON POWER DETAILS AND SCHEDULES SHEET FOR ADDITIONAL INFORMATION.
6. ROUTE CONDUIT THROUGH RACEWAY IN MILLWORK TO SURFACE MOUNTED DEVICES AS SHOWN. COORDINATE WITH MILLWORK PROVIDER PRIOR TO INSTALL.
7. REFER TO UNDERGROUND CONDUIT PLAN FOR UNDERGROUND CONDUIT AND CABLING ROUTING FOR DEVICES IN THIS AREA.
8. KEYPAD FOR MOTORIZED SCRIM. KEYPAD CAN CONTROL UP TO FOUR SCRIMS AND IS PROVIDE BY VENDOR. REFERENCE ARCHITECTURAL ELEVATIONS FOR ADDITIONAL INFORMATION.
9. ROUTE ONE 3/4" CONDUIT TO END OF THE TELLER LINE AS SHOWN. CONCEAL CONDUIT IN WALL AND TERMINATE AT J-BOX. REFER TO ARCHITECTURAL SHEETS.
10. MOTORIZED SCRIM INSTALLATION, REFER TO ARCHITECTURAL DETAIL FOR ROUGH-IN REQUIREMENTS. PROVIDE APPROPRIATE ROUGH-INS AND FINAL CONNECTIONS TO MOTORIZED SCRIM, FIELD COORDINATE EXACT REQUIREMENTS WITH INSTALLING CONTRACTOR AND ADJUST ACCORDINGLY.
11. WALL MOUNTED SECURITY KEYPAD FOR eATMS ON BANKING FLOOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GC PRIOR TO ROUGH-IN.
12. EXHAUST FAN SHALL BE INTERLOCKED WITH 3-WAY PRESET PUSH BUTTON TIMER SWITCH. REFER TO EXHAUST FAN CONTROL DIAGRAM, LIGHTING PLAN SHEET, ROOF POWER PLAN SHEET, AND MECHANICAL SCHEDULES ON MECHANICAL SHEETS FOR ADDITIONAL INFORMATION. TIMER SWITCH IS BEING PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
13. PROVIDE POWER TO MECHANICAL EQUIPMENT AS SHOWN. PROVIDE DISCONNECTING MEANS AS REQUIRED. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
14. PROVIDE WIRELESS AREA CONTROLLER, DAINTREE #WAC-50. WIRELESS AREA CONTROLLER TO BE POWERED VIA 120V RECEPTACLE IN DATA ROOM AND WIRED TO CELLULAR MODEM FOR CONTROLSCOPE CONNECTIVITY. REFER TO BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ADDITIONAL INFORMATION.
15. CELLULAR MODEM TO BE BE POWERED FROM DUPLEX RECEPTACLES IN DATA ROOM. CELLULAR MODEM AND WAC RECEPTACLES TO BE CONNECTED TO UPS. REFER TO BUILDING MANAGEMENT SYSTEM DETAILS SHEET FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR TO DETERMINE LOCATION FINAL LOCATION OF RECEPTACLES IN FIELD.
16. IRRIGATION CONTROLLER SERVICE SWITCH LOCATED ABOVE CEILING. ROUTE ONE 3/4" CONDUIT STUBBED TO IRRIGATION CONTROLLER ON EXTERIOR WALL.
17. TELEPRESENCE CONTROL PANEL, MICROPHONE AND VIDEO INPUT TO BE HOUSED IN LIVING ROOM TABLE. E.C. TO PROVIDE POWER RECEPTACLE AND JUNCTION BOX WITH 1" CONDUIT STUBBED UP TO PAC BOX (IF PRESENT), OTHERWISE ROUTE THE 1" CONDUIT TO ABOVE CEILING FOR TELE-PRESENCE EQUIPMENT AT CAFE AREA. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.
18. E.C. TO PROVIDE POWER RECEPTACLE AND 1" CONDUIT ROUTED TO PAC BOX FOR LIVING ROOM TELE-PRESENCE MONITOR POWER. ROUTE CABLE AND WIRING OVERHEAD FROM MONITOR AS REQUIRED. ROUTE ONE 1" CONDUIT FROM PAC BOX TO ABOVE CEILING ELECTRICAL PANELS AS REQUIRED. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.
19. E.C. TO PROVIDE POWER RECEPTACLE WITH 1" CONDUIT STUBBED ABOVE CEILING FOR COMMUNITY WALL TELE-PRESENCE MONITOR. ROUTE CABLE AND WIRING OVERHEAD FROM MONITORS AS REQUIRED. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.
20. SET EXTERIOR BUILDING RECEPTACLE FLUSH WITH FACE OF MASONRY VENEER. PROVIDE METAL COVER COMPLIANT WITH CURRENT NATIONAL ELECTRICAL CODE (NEC). REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MORE DETAILS. PROVIDE HUBBELL MODEL #5205WO, OR EQUIVALENT THAT IS COMPLIANT WITH N.E.C.
21. JUNCTION BOX FOR DOOR CONTROL CLOSER. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER AND MANUFACTURER FOR FINAL LOCATION AND INSTALLATION REQUIREMENTS.
22. METER, CT CABINET, AND MANUAL TRANSFER SWITCH (MTS) MOUNTED ON EXTERIOR WALL. REFER TO POWER RISER DIAGRAM ON POWER DETAILS AND SCHEDULES SHEET FOR ADDITIONAL INFORMATION.
23. STANDALONE DUCT DETECTOR, INSTALLED IN DUCT BY HVAC CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR. SYSTEM SENSOR MODEL D4120 OR EQUIVALENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION. REFER TO SYSTEMS PLAN FOR REMOTE TEST SWITCH LOCATION.
24. NOT USED.
25. RECEPTACLE LOCATED JUST ABOVE UPPER CABINET FOR POWER SUPPLY FOR UNDERCABINET LIGHTS. (UNSWITCHED) POWER FROM CIRCUIT AS INDICATED ON LIGHTING PLAN.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE STANDARD DUPLEX RECEPTACLE WITH BELL LOCKABLE COVER SPECIFICATION NUMBER MX1050S OR EQUIVALENT.
27. DISCONNECT SWITCH IS BEING PROVIDED WITH EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION AND POWER CONNECTION. IF NO DISCONNECT WAS INCLUDED WITH SHIPMENT, COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE AS REQUIRED. EXHAUST FAN DATA ROOM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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ENGINEER OF RECORD

STATE OF MISSOURI
JOHN FERGUSON
PE-2008014085
PROFESSIONAL ENGINEER

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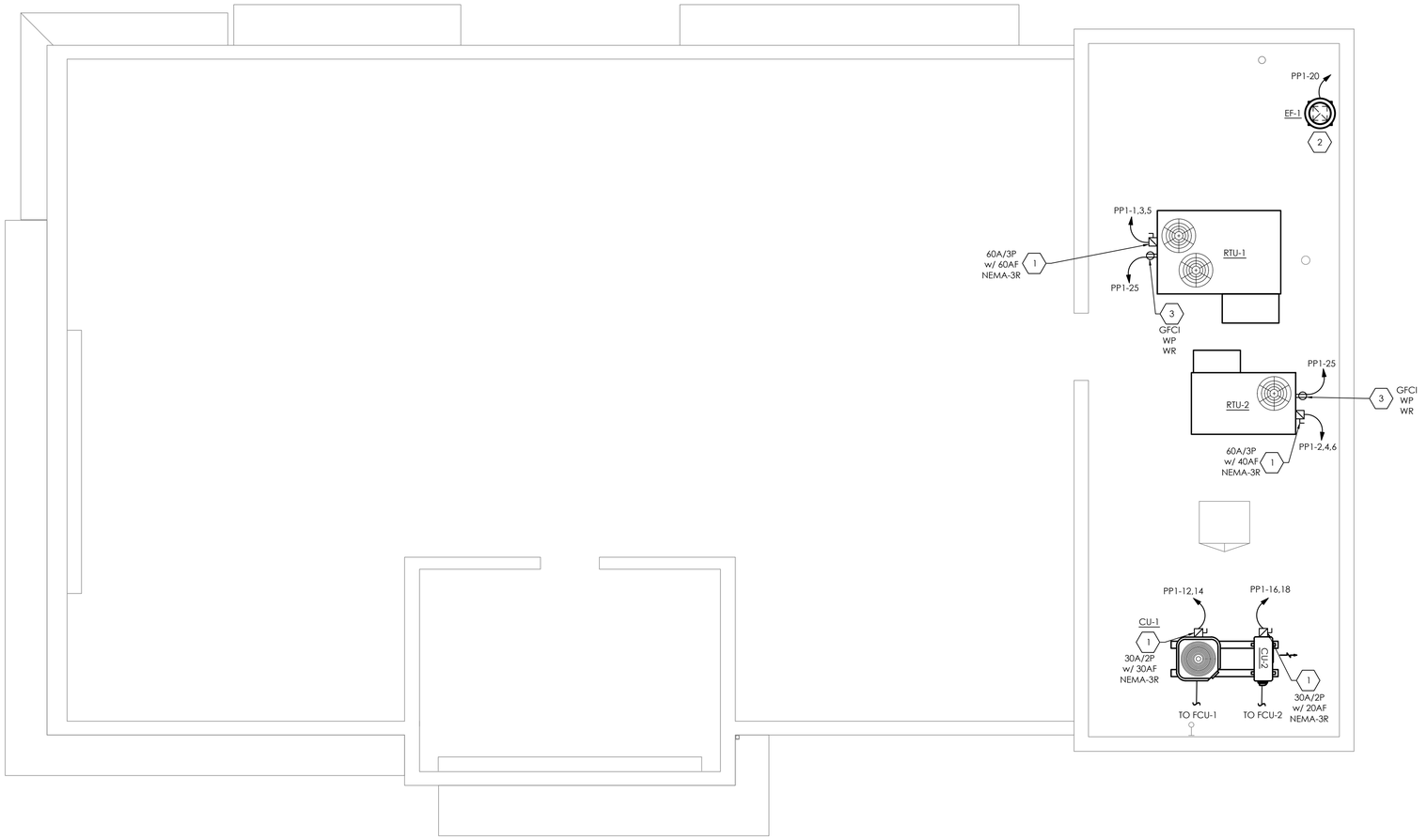
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

POWER PLAN

SHEET NUMBER

E3.0



ROOF POWER PLAN | SCALE 1/4" = 1' | 1

ELECTRICAL GENERAL NOTES:

•	FAN COIL UNIT 2 SHALL BE POWERED THROUGH THE CORRESPONDING CONDENSING UNIT ON THE ROOF. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
•	RTU'S PROVIDED WITH POWERED RECEPTACLE. IF UNIT IS NOT PROVIDED WITH RECEPTACLE, PLEASE PROVIDE AS INDICATED. REFER TO MECHANICAL SCHEDULE SHEET FOR ADDITIONAL INFORMATION.

(#) ELECTRICAL KEY NOTES:

1.	PROVIDE POWER TO MECHANICAL EQUIPMENT AS SHOWN. PROVIDE DISCONNECTING MEANS AS REQUIRED. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2.	DISCONNECT SWITCH IS BEING PROVIDED WITH EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION AND POWER CONNECTION. IF NO DISCONNECT WAS INCLUDED WITH SHIPMENT, COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE AS REQUIRED. EXHAUST FAN SERVES LOUNGE, JANITOR'S CLOSET AND RESTROOMS. REFER TO LIGHTING PLAN, POWER PLAN AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3.	PROVIDE WEATHERPROOF, GFI PROTECTED, WEATHER RESISTANT ROOFTOP RECEPTACLE. OUTLET BOX HOODS SHALL BE IDENTIFIED AND LISTED AS EXTRA DUTY PER ARTICLE 406.9(8)(1).

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ENGINEER OF RECORD

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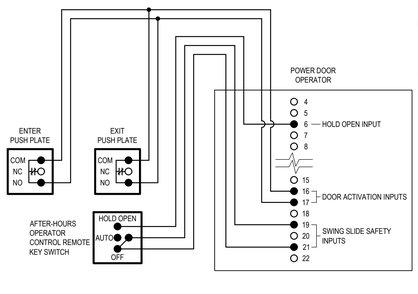
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

ROOF POWER PLAN

SHEET NUMBER

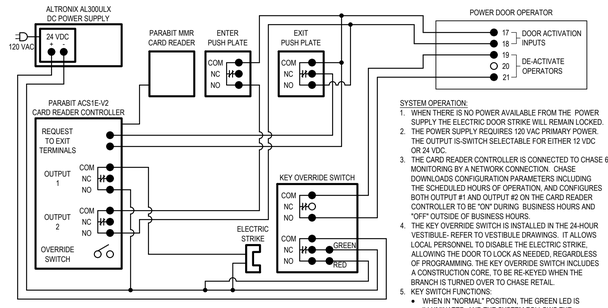
E3.1



SYSTEM OPERATION

1. THE AUTOMATIC DOOR OPERATOR REQUIRES 120 VAC POWER.
2. DOOR OPERATOR "POWER" AND "HOLD OPEN" ROCKER SWITCHES ARE CONCEALED WITHIN THE OPERATOR HOUSING.
3. KEY SWITCH FUNCTIONS:
   - "OFF" POSITION DISABLES THE PUSH PLATES, PREVENTING AUTOMATIC OPERATION OF THE DOOR. THIS DOES NOT CUT POWER TO THE OPERATOR.
   - "AUTO" ENABLES BOTH PUSH PLATES, PROVIDING AUTOMATIC OPERATION OF THE DOOR.
   - "HOLD OPEN" OPENS THE DOOR, WHICH WILL REMAIN OPEN UNTIL THE SWITCH POSITION IS CHANGED OR POWER IS LOST. THE "HOLD OPEN" FUNCTION OF THE KEY SWITCH CAN BE DISABLED BY NOT TERMINATING THE WIRE AT POSITION 6.
4. WHILE THE DOOR IS UNLOCKED, THE KEY SWITCH IS TO BE TURNED TO "AUTO". ALLOWING BOTH PUSH PLATES TO TRIGGER THE OPERATOR.
5. WHILE THE DOOR IS LOCKED, THE KEY SWITCH MUST BE SET TO "OFF", PREVENTING THE PUSH PLATES FROM ACTIVATING THE OPERATOR. HOWEVER, IF THE DOOR IS LOCKED, AND THE OPERATOR IS POWERED, AND A PUSH PLATE IS PRESSED, THE OPERATOR'S CLUTCH MECHANISM WILL PREVENT DAMAGE TO THE OPERATOR.
6. POWER TO THE OPERATOR IS NOT TO BE CUT DURING OPENING/CLOSING PROCEDURES, AS THIS DISRUPTS THE OPERATOR'S PROGRAMMING. THE KEY SWITCH IS TO BE USED.

AUTOMATIC VESTIBULE DOOR CONTROL DIAGRAM | SCALE NTS | 3



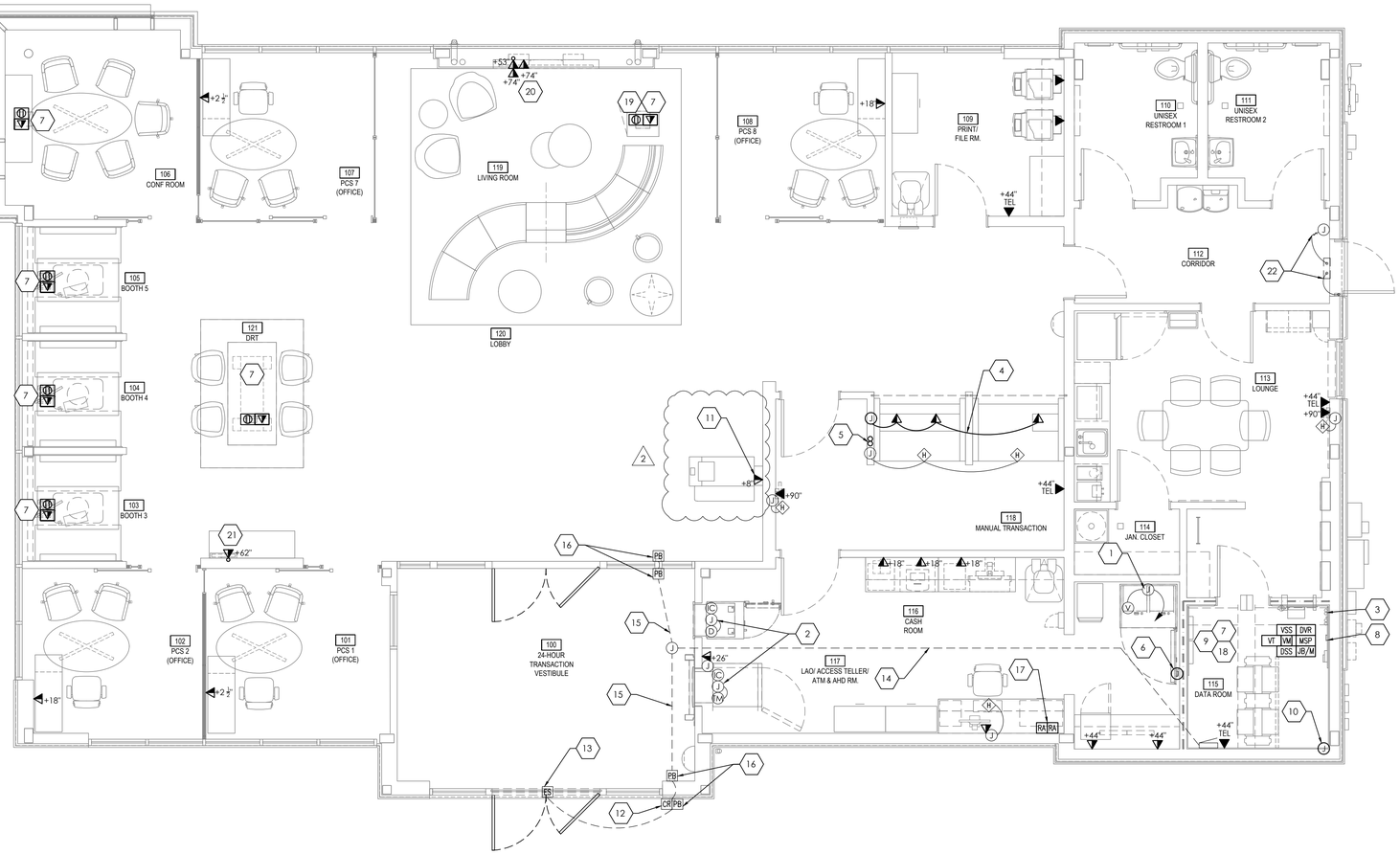
SYSTEM OPERATION:

1. WHEN THERE IS NO POWER AVAILABLE FROM THE POWER SUPPLY THE ELECTRIC DOOR STRIKE WILL REMAIN LOCKED.
2. THE POWER SUPPLY REQUIRES 120 VAC PRIMARY POWER. THE OUTPUT IS-SWITCH SELECTABLE FOR EITHER 12 VDC OR 24 VDC.
3. THE CARD READER CONTROLLER IS CONNECTED TO CHASE 6. MONITORING BY A NETWORK CONNECTION. CHASE DOWNLOADS CONFIGURATION PARAMETERS INCLUDING THE SCHEDULED HOURS OF OPERATION, AND CONFIGURES BOTH OUTPUT #1 AND OUTPUT #2 ON THE CARD READER CONTROLLER TO BE "ON" DURING BUSINESS HOURS AND "OFF" OUTSIDE OF BUSINESS HOURS.
4. THE KEY OVERRIDE SWITCH IS INSTALLED IN THE 24-HOUR VESTIBULE- REFER TO VESTIBULE DRAWINGS. IT ALLOWS LOCAL PERSONNEL TO DISABLE THE ELECTRIC STRIKE, ALLOWING THE DOOR TO LOCK AS NEEDED, REGARDLESS OF PROGRAMMING. THE KEY OVERRIDE SWITCH INCLUDES A CONSTRUCTION CORE, TO BE RE-KEYED WHEN THE BRANCH IS TURNED OVER TO CHASE RETAIL.
5. KEY SWITCH FUNCTIONS:
   - WHEN IN "NORMAL" POSITION, THE GREEN LED IS ILLUMINATED, AND THE SYSTEM FOLLOWS THE PROGRAMMED OPERATION, FOLLOWING THE BUSINESS HOURS SCHEDULE.
   - WHEN IN "DISABLED" POSITION, THE RED GREEN LED IS ILLUMINATED. THE SYSTEM PROGRAM IS BYPASSED, THE ELECTRIC STRIKE LOCKS THE DOOR, AND THE AUTOMATIC DOOR OPERATOR PUSH PLATES ARE DISABLED.

"NORMAL" HARDWARE FUNCTIONS:

- DURING BUSINESS HOURS, BOTH OUTPUTS #1 AND #2 ARE ENERGIZED, ALLOWING BOTH PUSH PLATES TO ACTIVATE AUTOMATIC DOOR OPERATOR.
- OUTSIDE BUSINESS HOURS ENTRY: BOTH OUTPUTS #1 AND #2 ARE DE-ENERGIZED, DEACTIVATING THE ENTRY PUSH PLATE UNTIL ACTIVATED BY THE CARD READER, WHICH ENERGIZES OUTPUTS #1 AND #2 FOR A PROGRAMMED TIME, TEMPORARILY UNLOCKING THE DOOR FOR ENTRY PUSH PLATE ACTIVATION OF THE DOOR OPERATOR.
- OUTSIDE BUSINESS HOURS EXITING: ACTIVATING THE EXIST PUSH PLATE WILL SIGNAL THE CARD READER CONTROLLER TO ISSUE A "REQUEST TO EXIT" COMMAND, WHICH WILL UNLOCK THE ELECTRIC STRIKE AND ENERGIZE BOTH OUTPUTS #1 AND #2, ALLOWING THE EXIT PUSH PLATE TO OPERATE THE DOOR.

AUTOMATIC ENTRANCE DOOR CONTROL DIAGRAM | SCALE NTS | 2



SYSTEMS PLAN | SCALE 1/4" = 1' | 1

ELECTRICAL GENERAL NOTES:

- IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RUN CONDUIT AND WIRING TO ALL APPROPRIATE SECURITY EQUIPMENT LOCATIONS PRIOR TO INSTALLATION. SECURITY VENDOR WILL CONNECT DEVICES. REFER TO SECURITY VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO CHASE TELECOMM DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE DATA ROOM AND ALL INSTALLATION REQUIREMENTS. REFER TO CHASE TELECOMM ELEVATIONS FOR ALL MOUNTING HEIGHTS AND FINAL LOCATIONS
- REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL EQUIPMENT LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.
- ELECTRICIAL CONTRACTOR TO COORDINATE ALL SECURITY EQUIPMENT LOCATIONS WITH SECURITY VENDOR AND CHASE. ONLY EXTERIOR LOCATIONS ARE SHOWN ON THESE PLANS FOR COORDINATION DURING CONSTRUCTION.
- THE BCM OFFICE SHALL BE DETERMINED IN FIELD BY BRANCH STAFF. CONTRACTOR TO COORDINATE THE LOCATION OF BCM OFFICE WITH BRANCH STAFF FOR THE INSTALLATION OF THE HOLD-UP BUTTON.
- REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS AND MOUNTING HEIGHTS FOR DATA AND TELEPHONES.

(#) ELECTRICAL KEYNOTES:

1. 4"X4"X2-1/8" JUNCTION BOX-PROVIDE A 3/4"C W/PULLWIRE BACK TO SECURITY EQUIPMENT IN DATA ROOM, VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
2. 4"X4"X2-1/8" JUNCTION BOX WITH BLANK COVER (FIELD COORDINATE EXACT ROUGH-IN REQUIREMENTS PRIOR TO ROUGH IN AND ADJUST ACCORDINGLY), PROVIDE A 1"C WITH PULL WIRE TO ALARM CONTROL CABINET.
3. ELECTRICAL CONTRACTOR TO PROVIDE TWO 2" CONDUITS FROM THE DATA RACK TO THE CARRIER POINT OF ENTRY. ONE CONDUIT FOR TELECOMM SERVICE PROVIDER TO EXTEND DEMARCATION INTO THE NEW DATA RACK. ONE CONDUIT WILL BE OWNER SPARE. ELECTRICAL CONTRACTOR TO COORDINATE ALL ROUTING WITH BUILDING OWNER AND TELECOMMUNICATIONS CARRIER PRIOR TO INSTALLATION. REFER TO ENLARGED PLAN AND ELEVATIONS SHEET AS WELL AS TELECOMM DRAWINGS PREPARED BY GTI DESIGN TEAM FOR ADDITIONAL INFORMATION.
4. ROUTE CONDUIT THOUGH RACEWAY IN MILLWORK TO SURFACE MOUNTED DEVICES AS SHOWN. COORDINATE WITH MILLWORK PROVIDER PRIOR TO INSTALL.
5. ROUTE ONE 1-1/4" CONDUIT AND ONE 3/4" CONDUIT FROM THE DATA ROOM TO END OF THE TELLER LINE AS SHOWN. CONCEAL CONDUITS IN WALL AND TERMINATE AT J-BOX FOR CONNECTION TO FLOOR MOUNTED RACEWAY. REFER TO ARCHITECTURAL SHEETS.
6. PROVIDE JUNCTION BOX AT +114"AFF FACING INTO ATM ROOM ABOVE CEILING, FOR WIFI ANTENNA. PROVIDE A 3/4"C FROM JUNCTION BOX STUBBED UP INTO CEILING SPACE OF LOBBY AREA.
7. REFER TO UNDERGROUND CONDUIT PLAN SHEET FOR UNDERGROUND CONDUIT AND CABLING ROUTING FOR DEVICES IN THIS AREA.
8. PROVIDE 1/2"C (1#6AWG, CU. GND) FROM DATA RACK & PHONE SYSTEM GROUND BUSS TO ELECTRICAL SERVICE GROUND ELECTRODE SYSTEM, REFER TO SERVICE GROUND DETAIL ON POWER DETAILS AND SCHEDULES SHEET FOR ADDITIONAL INFORMATION.
9. PROVIDE RING EXTENSION FOR 5/8" GYPSUM BOARD AND 3/4" PLYWOOD FOR ALL WALL MOUNTED JUNCTION BOXES IN DATA ROOM.
10. 4"X4"X2-1/8" JUNCTION BOX-PROVIDE A 3/4"C W/PULLWIRE STUB UP TO ACCESSIBLE CEILING SPACE.
11. ROUTE DATA CONDUIT THROUGH RACEWAY TO SURFACE MOUNTED ATM AS SHOWN. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ATM MANUFACTURER PRIOR TO INSTALLATION.
12. PROVIDE A CARD READER DOOR ACCESS ENTRY SYSTEM AND AUTOMATIC DOOR OPERATOR WITH ELECTRIC STRIKE, SYSTEM CONTROL PANEL, CONCEALED CONDUIT, WIRING ETC. FOR A COMPLETE OPERATING SYSTEM, SEE HARDWARE SPECIFICATION SECTION.
13. ELECTRIC STRIKE FOR 24-HOUR VESTIBULE DOOR OPERATION ONLY.
14. PROVIDE A RACEWAY TO THE VESTIBULE DOOR CONTROL PANEL IN THE ELECTRICAL ROOM FOR THE PURPOSE OF PROVIDING DATA TO THE AUTOMATIC DOOR OPENING SYSTEM AND ELECTRICAL STRIKE SYSTEM.
15. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RACEWAY TO THE FRONT VESTIBULE DOOR FRAMES FOR THE PURPOSE OF RUNNING WIRES FOR THE AUTOMATIC DOOR OPENER PUSH BUTTON AND ASSOCIATED EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND JUNCTION BOXES INCLUDING FLEXIBLE CONDUIT, IF REQUIRED, AS WELL AS PULL WIRES AS REQUIRED.
16. PROVIDE A PUSH BUTTON FOR AUTOMATIC DOOR OPERATION WITH CONCEALED CONDUIT, WIRING ETC. CONNECT TO SYSTEM CONTROL PANEL. FOR A COMPLETE OPERATING SYSTEM, SEE HARDWARE SPECIFICATION SECTION.
17. REMOTE DUCT MOUNTED SMOKE DETECTOR TEST SWITCH. PROVIDE SYSTEM SENSOR MODEL APA151 ANNUNCIATOR WITH PIEZO ALERT OR EQUIVALENT AND SYSTEM SENSOR MODEL RTS151 KEY TEST SWITCH OR EQUIVALENT. ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.
18. COORDINATE WITH CHASE SECURITY TEAM FOR FINAL LOCATION AND POWER REQUIREMENTS FOR THE WIRELESS RECEIVER FOR THE HUB.
19. TELEPRESENCE CONTROL PANEL, MICROPHONE AND VIDEO INPUT TO BE HOUSED IN LIVING ROOM TABLE. E.C. TO PROVIDE DATA RECEPTACLE AND JUNCTION BOX WITH 1" CONDUIT STUBBED UP TO PAC BOX (IF PRESENT), OTHERWISE ROUTE THE 1" CONDUIT TO ABOVE CEILING FOR TELE-PRESENCE EQUIPMENT AT CAFE AREA. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.
20. E.C. TO PROVIDE DATA OUTLETS AND A 1" CONDUIT ROUTED TO PAC BOX FOR LIVING ROOM TELE-PRESENCE MONITOR. ROUTE CABLE AND WIRING OVERHEAD FROM MONITORS AS REQUIRED. ROUTE 1" CONDUIT FROM PAC BOX ABOVE CEILING TO DATA ROOM AS REQUIRED. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.

2 21. E.C. TO PROVIDE DATA BOX WITH 1" CONDUIT STUBBED ABOVE CEILING FOR COMMUNITY WALL TELE-PRESENCE MONITOR. ROUTE CABLE AND WIRING OVERHEAD FROM MONITORS AS REQUIRED.REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL DEVICE LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.

22. DOOR ALARM POWER SUPPLY LOCATED ABOVE CEILING OVER DOOR. ROUTE 3/4" CONDUIT TO CENTER DOOR HINGE FOR POWER TRANSFER. HINGE CONNECTION BY DOOR HARDWARE INSTALLER. COORDINATE CONDUIT HEIGHT AND LOCATION WITH DOOR FRAME INSTALLATION. DOOR ALARM POWER SUPPLY SERVICE SWITCH LOCATED ABOVE CEILING. REFER TO DOOR HARDWARE SCHEDULE ON ARCHITECTURAL DRAWINGS AND COORDINATE WITH DOOR AND HARDWARE VENDOR FOR ADDITIONAL INFORMATION.

CHASE

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ENGINEER OF RECORD

STATE OF MISSOURI
JOHN FERGUSON
NUMBER 2008014085
PROFESSIONAL ENGINEER

06/01/2021

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

JOHN FERGUSON, P.E.
MISSOURI
LICENSE #: 2008014085

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

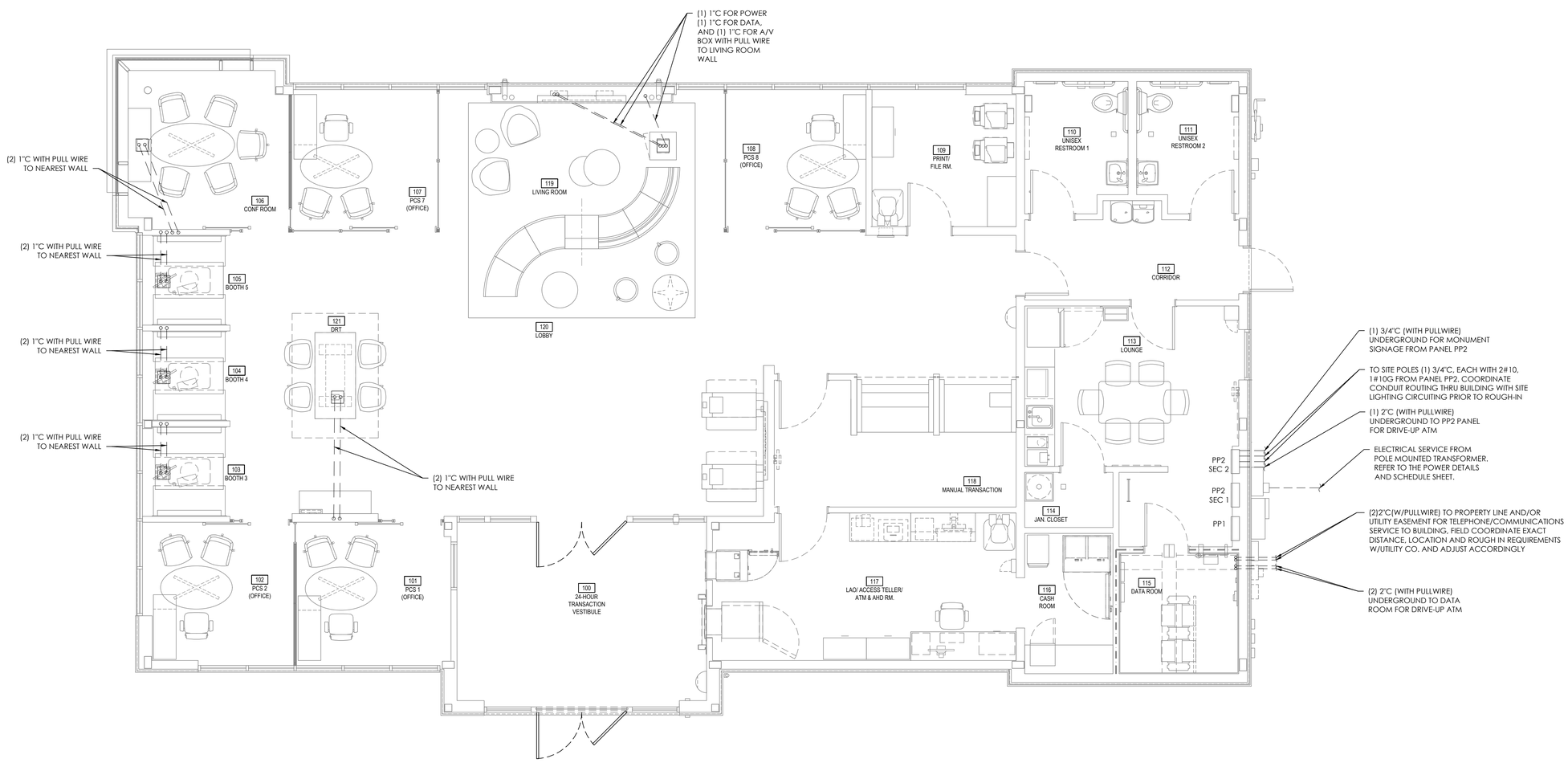
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

SYSTEMS PLAN

SHEET NUMBER

E4.0



UNDERGROUND CONDUIT PLAN | SCALE 1/4" = 1' | 1

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01/19/2021

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ISSUE	DATE	DESCRIPTION
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CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

UNDERGROUND CONDUIT PLAN

SHEET NUMBER

E5.0

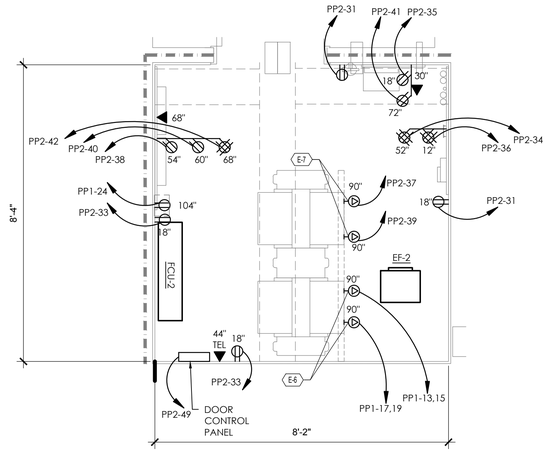
DATA ROOM DIAGRAM KEY

E-1	ELEC PANEL: MAIN (NOT IN DATA ROOM)
E-2	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)
E-3	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)
E-4	TELECOMM GROUND BUSBAR. MOUNT 6" BELOW BOTTOM OF LADDER RACK
E-5	120V/20A ELEC. OUTLET- DUPLEX OR QUADRUPLEX AS SHOWN- RECESSED OR SURF. MTD.
E-6	(2) DEDICATED 208V/30A ELEC OUTLETS - TWIST-LOCK, NEMA L14-30
E-7	(2) DEDICATED 120V/20A ELEC OUTLETS - TWIST-LOCK, NEMA L5-20R
E-8	2" CONDUITS FOR EXTERIOR ATM LOCATION W/ 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS
E-9	MANUAL TOGGLE LIGHT SWITCH
E-10	DOOR CONTROL PANEL
T-1	TELECOM CARRIER #1: 36"W X 36"H
T-2	12-PORT FIBER ENCLOSURE FOR EXTENSION OF CARRIER CONNECTIONS TO RACK. LABEL PORTS TO MATCH RACK MOUNTED FIBER PANEL.
T-3	1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING.
T-4	(2) 2" CONDUITS FOR TELECOM SERVICE W/ 2" 3-CELL MAXCELL INNERDUCT - COORD. LOCN. W/ UTILITY
T-5	12-PORT OUTPUT FOR COPPER EXTENSION OF CARRIER CONNECTIONS TO RACK.
T-6	PROTECTIVE SURGE PROTECTION FOR EACH CAT6 AND CAT6A CABLES FOR POLE MOUNTED SECURITY CAMERAS AND ATM ISLAND/CANOPY DEVICES. PROVIDE ITW #CAT6-75 PROTECTION FOR EACH CAT 6 CABLE AND ITW #CAT6A-75 FOR EACH CAT6A CABLE. BOND TO GROUNDING BAR PER MANUFACTURER'S REQ'S

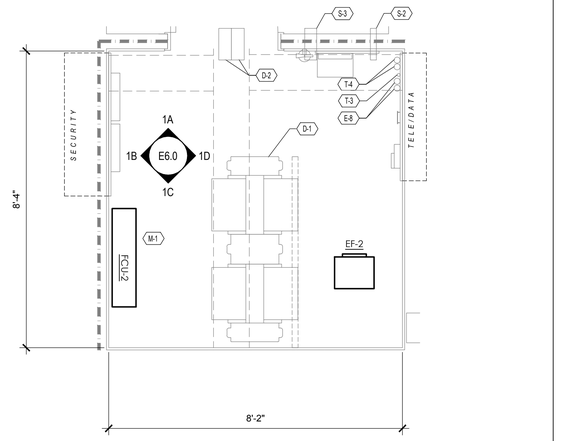
D-1	DATA RACK / CABLE TRAY COMPONENTS
D-2	(2) 4" DATA CABLE FIRE RATED SLEEVES PROVIDED BY OWNER AND INSTALLED BY G.C. (2 LOCATIONS)
TV-1	CATV EQUIPMENT: 24"W x 12"H
S-1	SECURITY EQUIPMENT: 48"W x 66"H
S-2	2" MUSIC SYSTEM AND BMS CABLING FIRE RATED SLEEVE PROVIDED BY OWNER AND INSTALLED BY G.C.
S-3	4" SECURITY CABLE FIRE RATED SLEEVE PROVIDED BY OWNER AND INSTALLED BY G.C.
M-1	FAN COIL UNIT AND CONDENSATE PUMP - PROVIDE DEDICATED SYSTEM THAT MEETS ROOM TEMPERATURE AND HUMIDITY REQUIREMENTS IN JPMC RETAIL STRUCTURED AND CABLING STANDARDS, APPENDIX B
M-2	SECURITY MOTION SENSOR
M-3	MOOD MUSIC EQUIPMENT: 15"W X 24"H
M-4	SURFACE-MOUNT DATA NETWORK JACK
M-5	WALL BRACKET FOR REMOTE THERMOSTAT
M-6	DRAWING STORAGE TUBE
M-7	STRUCTURED CABLING FLOOR PLAN: 48"W X 36"H
M-8	TELEPHONE
M-9	FIRE EXTINGUISHER
B-1	BMS EQUIPMENT: 15"W X 54"H

ELECTRICAL GENERAL NOTES:

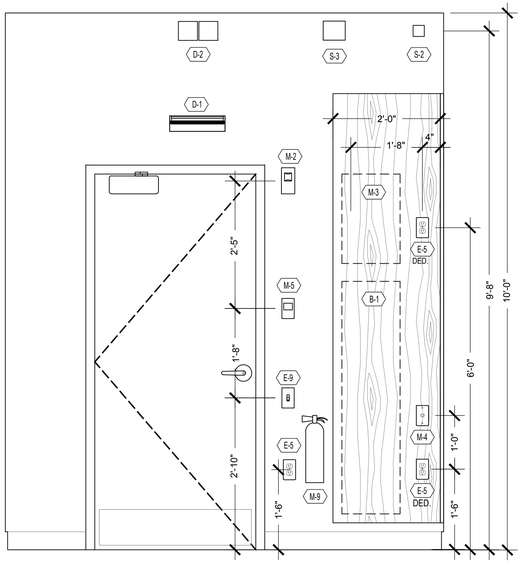
- REFER TO CHASE TELECOMM DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE DATA ROOM AND ALL INSTALLATION REQUIREMENTS. REFER TO CHASE TELECOMM ELEVATIONS FOR ALL MOUNTING HEIGHTS AND FINAL LOCATIONS
- THE ELECTRICAL/DATA ROOM MUST BE 100% COMPLETE AT A MINIMUM OF 45 DAYS PRIOR TO CONSTRUCTION COMPLETION/TURNOVER DATE.
- ELECTRCIAL CONTRACTOR TO COORDINATE ALL SECURITY EQUIPMENT LOCATIONS WITH SECURITY VENDOR AND CHASE.
- ALL CARRIER AND SECURITY CABLING MUST BE AFFIXED TO WALL AND/OR CONVEYANCE WITH HANGERS, VELCRO, AND TIES; NO HANGING CABLES.
- REFER TO JPMC RETAIL STRUCTURED CABLING STANDARDS FOR ADDL. INFO. COORDINATE FINAL EQUIPMENT LOCATIONS w/ THE TELECOMM DRAWINGS PREPARED BY THE ASSIGNED PROJECT GTI DESIGNER.



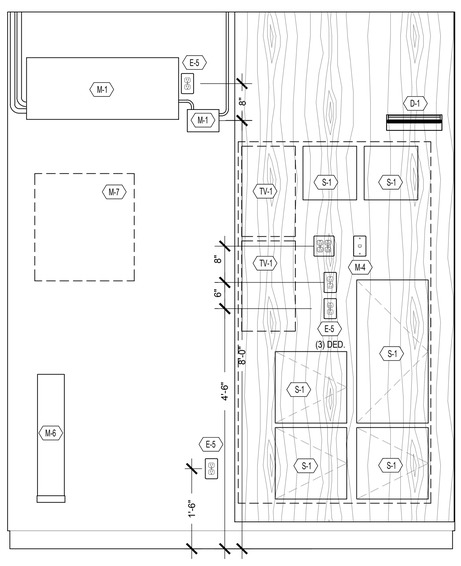
ELECTRICAL SYSTEMS PLAN | SCALE 1/2" = 1'0" | 3



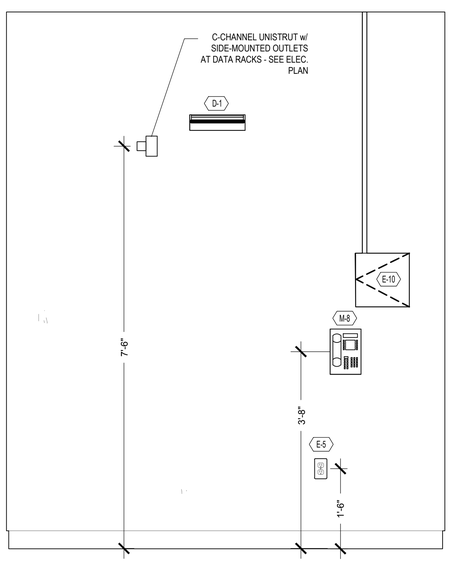
ENLARGED DATA ROOM PLAN | SCALE 1/2" = 1'0" | 2



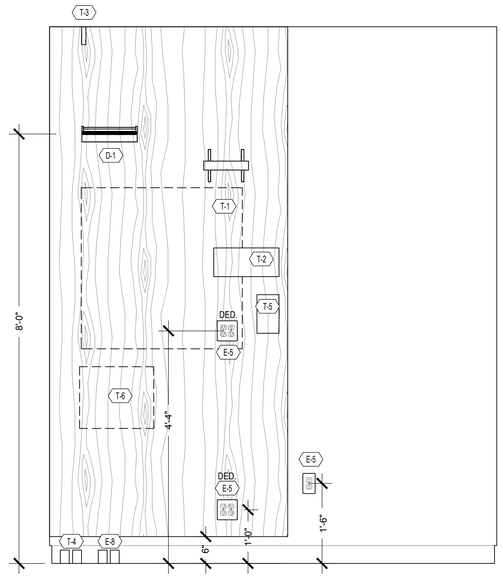
INTERIOR ELEVATION 1A / E6.0



1B / E6.0 INTERIOR ELEVATION



1C / E6.0 INTERIOR ELEVATION



1D / E6.0 INTERIOR ELEVATION

DATA ROOM ELEVATIONS | SCALE 3/4" = 1'0" | 1

CHASE

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01/19/2021

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LICENSE #: 2008014085

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

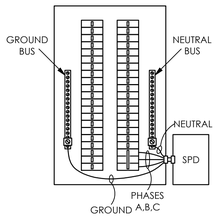
PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

ENLARGED PLAN AND ELEVATIONS

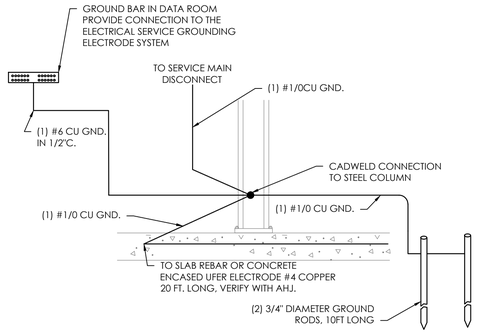
SHEET NUMBER

E6.0



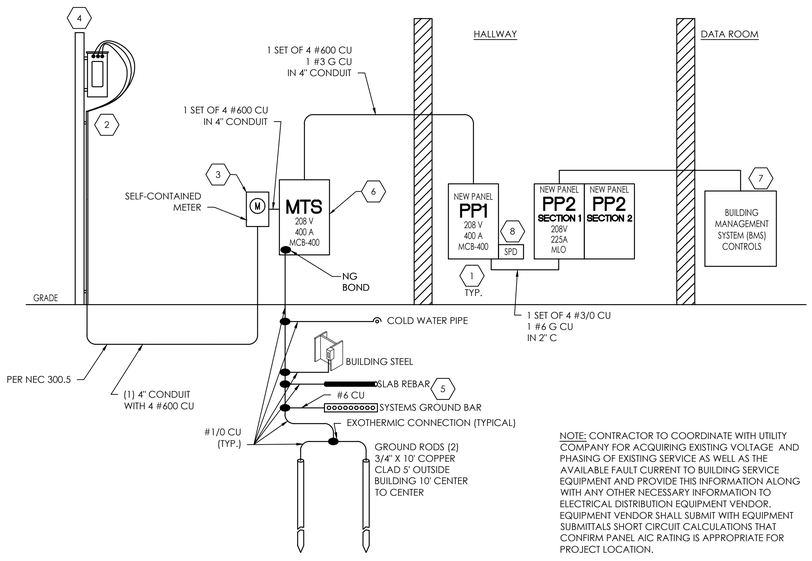
1. CONNECT SPD TO BREAKER AS FOLLOWS:
   2P30 FOR 1 PHASE
   3P30 FOR 3 PHASE
2. RELOCATE BREAKER IN PANEL AS NECESSARY TO PROVIDE THE SHORTEST WIRE LENGTH TO SPD.
3. DIRECT CONNECTION TO BUS IS NOT PERMITTED.
4. USE A CHASE NIPPLE CONNECTION VIA KNOCKOUT.
5. USE #10 AWG OR LARGER CONDUCTORS.
6. LIMIT WIRE LENGTH TO 18" OR LESS.
7. KEEP WIRE FREE OF ANY SHARP BENDS.
8. SPD TO BE MODULAR, UL 1449 3RD EDITION LISTED.
9. 100 KA PER PHASE, 600V CLAMPING.

SPD PANELBOARD SCHEMATIC | SCALE: NTS | 3



SERVICE GROUNDING | SCALE: NTS | 2

DEDICATED ELECTRICAL SERVICE HAS NOT BEEN FINALIZED. ALL INFORMATION REGARDING ELECTRICAL SERVICE IS SUBJECT TO CHANGE PENDING COORDINATION WITH UTILITY COMPANY.



NOTE: CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR ACQUIRING EXISTING VOLTAGE AND PHASING OF EXISTING SERVICE AS WELL AS THE AVAILABLE FAULT CURRENT TO BUILDING SERVICE EQUIPMENT AND PROVIDE THIS INFORMATION ALONG WITH ANY OTHER NECESSARY INFORMATION TO ELECTRICAL DISTRIBUTION EQUIPMENT VENDOR. EQUIPMENT VENDOR SHALL SUBMIT WITH EQUIPMENT SUBMITTALS SHORT CIRCUIT CALCULATIONS THAT CONFIRM PANEL AIC RATING IS APPROPRIATE FOR PROJECT LOCATION.

POWER RISER DIAGRAM | SCALE: NTS | 1

PANELBOARD: PP1 (NEW)

BUS AMPS: 400A
MAIN SIZE/TYPE: 400A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: LOUNGE
FAULT CURRENT: REFER TO POWER RISER DIAGRAM
EQUIPMENT GROUND BUS
SUB FEED LUGS
MOUNTING: RECESSED

CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.
1		5,764									3,603				2
3	RTU-1		5,764		6	60	3	3	40	8		3,603		RTU-2	4
5				5,764									3,603		6
7		1,441					2	30	10		2,496			FCU-1	8
9	DAINTREE POWERSCOUT METER		1,441		12	15	3					2,496			10
11				1,441			2	30	10				1,768	CU-1	12
13	DATA RACK #1 TWISTLOCK	360			10	30	2				1,768				14
15			360				2	20	12			1,560		CU-2 & FCU-2	16
17	DATA RACK #1 TWISTLOCK			360	10	30	2						1,560		18
19		360					1	20	12		100			EF-1	20
21	EWH		1,500		12	20	2	1	20	12		200		DUCT SMOKE DETECTORS	22
23				1,500			1	20	12				400	CONDENSATE PUMPS	24
25	ROOFTOP RECEPS	360			12	20	1	1	20	12	200			EF-2	26
27	SPARE					20	1	1	20	12		180		EWH RECIRCULATION PUMP	28
29	SPARE					20	1	1	20					SPARE	30
31	SPACE						1	1						SPACE	32
33	SPACE						1	1						SPACE	34
35	SPACE						1	1						SPACE	36
37	SPACE						1								38
39	SPACE						1	3	30	10				SPD	40
41	SPACE						1								42
S	PANEL PP2	12,410			3/0	200	3								
			14,172												
				12,220											
	SUBTOTAL	20,695	23,237	21,285							8,167	8,039	7,331	SUBTOTAL	

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF
TOTAL PHASE A - VA	28,862	COOLING	39,749	1.00	REFRIGERATION		1.00
AMPS	241	HEATING	4,992	0	SIGN/DISPLAY	8,400	1.25
TOTAL PHASE B - VA	31,276	LIGHTING	3,922	1.25	KITCHEN		1.00
AMPS	261	RECEPTACLES	24,560	1.0/.5	EXISTING		1.00
TOTAL PHASE C - VA	28,616	MOTORS	2,500	1.00	LARGE MOTOR		1.25
AMPS	238	SUPP HEAT		1.00	SHOWWINDOW		1.25
TOTAL PNLBD - VA	88,754	MISC EQUIP	9,623	1.00	LTG TRACK		1.00
AMPS	246						

TOTAL DEMAND: 84,555 VA / 235 A

"S" - INDICATES SUB-FEED CIRCUIT BREAKER

PANELBOARD: PP2 (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SERVES: CHASE BANK
LOCATION: LOUNGE
FAULT CURRENT: REFER TO POWER RISER DIAGRAM
EQUIPMENT GROUND BUS
FEED THRU LUGS
MOUNTING: RECESSED

CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.
1	MOTORIZED SHADES	1,000			12	20	1	1	20	12	540			BOOTH RECEPS	2
3	JAN CLOSET RECEPS		360		12	20	1	1	20	12		540		PCS 101 RECEPS	4
5	WATER COOLER/DRINKING FOUNTAIN			720	12	20	1	1	20	12			540	PCS 102 RECEPS	6
7	RESTROOM RECEPS	720			12	20	1	1	20	12	720			CONF 106 RECEPS	8
9	PRINT/FILE RM RECEPS		540		12	20	1	1	20	12		540		PCS 107 RECEPS	10
11	LAO/ATM RM RECEPS			540	12	20	1	1	20	12			540	PCS 108 RECEPS	12
13	LOUNGE CONVENIENCE RECEPS	720			12	20	1	1	20	12	720			TELLER LINE RECEPS	14
15	MICROWAVE		1,000		12	20	1	1	20	12		720		TELLER LINE RECEPS	16
17	WTR MACH. & COFFEE MAKER			1,440	12	20	1	1	20	12			720	ACCESS TELLER	18
GFCI	REFRIGERATOR	700			12	20	1	1	20	12	180			CASH RECYCLER	20
21	TELEPRESENCE EQUIPMENT		540		12	20	1	1	20	12		1,200		MOTORIZED SCRIM	22
2 23	LIVING ROOM MONITOR			540	12	20	1	1	20	12			600	LOBBY ATM #1	24 2
25	SPARE					20	1	1	20					SPARE	26
27	COMMUNITY WALL MONITOR		360		12	20	1	1	20	12		600		24-HOUR ATM	28
29	CONVENIENCE RECEPS			900	12	20	1	1	20	12			600	24-HOUR AHD	30
31	DATA ROOM RECEP	360			12	20	1	1	20	12	360			DRT FLOOR BOX	32
33	DATA ROOM RECEP		360		12	20	1	1	20	12		360		DATA RM. TELEPHONE RECEP	34
35	DATA RM. BMS RECEP			360	12	20	1	1	20	12			360	DATA RM. TELEPHONE RECEP	36
37	DATA RACK #2 TWISTLOCK	720			12	20	1	1	20	12	360			DATA RM. SECURITY RECEP	38
39	DATA RACK #2 TWISTLOCK		720		12	20	1	1	20	12		360		DATA RM. SECURITY RECEP	40
41	MOOD MUSIC PLAYER			360	12	20	1	1	20	12			360	DATA RM. SECURITY RECEP	42
	SECTION 2														
2 43	LOBBY/VESTIBULE LTG	1,528			12	20	1	1	20	12	1,200			BUILDING SIGNAGE	44
45	EMPLOYEE ONLY LTG		1,533		12	20	1	1	20	12		1,200		BUILDING SIGNAGE	46
47	OCTAGON SIGNAGE			1,200	12	20	1	1	20	12			1,200	BUILDING SIGNAGE	48
49	DOOR CONTROL PANEL	200			12	20	1	1	20	12	1,200			BUILDING SIGNAGE	50
51	DOOR CONTACTORS		200		12	20	1	1	20	10		600		DRIVE-THRU ATM #1	52 VD
53	CASH RM RECEPS			540	12	20	1	1	20	10			200	DRIVE-THRU ATM TOPPER #1	54 VD
VD 55	SITE, DRIVE-THRU LTG	822			10	20	1	1	20					SPARE	56
VD 57	MONUMENT SIGNAGE		1,200		10	20	1	1	20					SPARE	58
59	SPARE					20	1	1	20	12			500	IRRIGATION CONTROLLER	60
61	EXTERIOR RECEPS	360			12	20	1	1	20					SPARE	62
63	SPARE					20	1	1	20	12		1,200		DRIVE-THRU ATM SIGNAGE	64
65	SPARE					20	1	1	20					SPARE	66
67	SPARE					20	1	1	20					SPARE	68
69	SPARE					20	1	1	20					SPARE	70
71	SPARE					20	1	1	20					SPARE	72
73	SPARE					20	1	1	20					SPARE	74
75	SPARE					20	1	1	20					SPARE	76
77	SPARE					20	1	1	20					SPARE	78
79	SPARE					20	1	1	20					SPARE	80
81	SPARE					20	1	1	20					SPARE	82
83	SPARE					20	1	1	20					SPARE	84
	SUBTOTAL	7,130	6,813	6,600							5,280	7,320	5,620	SUBTOTAL	

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF
TOTAL PHASE A - VA	12,410	COOLING		1.00	REFRIGERATION		1.00
AMPS	103	HEATING		0	SIGN/DISPLAY	8,400	1.25
TOTAL PHASE B - VA	14,133	LIGHTING	3,883	1.25	KITCHEN		1.00
AMPS	118	RECEPTACLES	22,580	1.0/.5	EXISTING		1.00
TOTAL PHASE C - VA	12,220	MOTORS	2,200	1.00	LARGE MOTOR		1.25
AMPS	102	SUPP HEAT		1.00	SHOWWINDOW		1.25
TOTAL PNLBD - VA	38,763	MISC EQUIP	1,700	1.00	LTG TRACK		1.00
AMPS	108						

TOTAL DEMAND: 35,544 VA / 99 A

"VD" - WIRE UPSIZED TO COMPENSATE FOR VOLTAGE DROP
"GFCI" - PROVIDE A GFCI CIRCUIT BREAKER

ELECTRICAL GENERAL NOTES:

- 130.5(c) VOLTAGE DROP: THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

ELECTRICAL KEYNOTES:

1. AS PER NEC 408.4, PROVIDE REQUIRED FIELD IDENTIFICATION. ALL SWITCHBOARDS, SWITCHGEAR, AND PANELBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. THE LABEL SHALL BE PERMANENTLY AFFIXED, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE THE COST OF SECONDARY CONDUITS AND SECONDARY CABLING IN BASE BID. THE OWNER IS RESPONSIBLE FOR THE COST OF POWER COMPANY ELECTRICAL TRANSFORMER, POLE RISER, CABLES, AND ANY ASSOCIATED UPGRADES/ MODIFICATIONS.
3. SELF-CONTAINED METER SOCKET W/ CT'S, 400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE. NEMA 3R. COORDINATE REQUIREMENTS WITH LOCAL UTILITY. INCLUDE ALL COSTS IN BASE BID.
4. COORDINATION WITH THE ELECTRICAL UTILITY COMPANY IS ONGOING. THE BASIS OF DESIGN IS A NEW TRANSFORMER WILL BE POLE MOUNTED ON A NEW UTILITY POLE. THE PROPOSED SERVICE FOR CHASE IS 400A AT 208/120V, 3-PHASE, 4-WIRE. UTILITY COMPANY WILL PROVIDE TRANSFORMER, POLE RISER, PRIMARY CABLING AND CONDUITS. COORDINATE WITH UTILITY COMPANY FOR EXACT TRANSFORMER SIZE AND RATING, ROUTING AND STUB-UP LOCATION. STAKE CONDUIT END LOCATION FOR UTILITY COMPANY.
5. SEE SERVICE GROUNDING DETAIL ON THIS SHEET.
6. PROVIDE NEMA 3R, MANUAL TRANSFER SWITCH WITH LOCKING GENERATOR CONNECTION ENCLOSURE, AND INTEGRAL CABLE CAM-LOCK CONNECTION BAY. ELS STORM SWITCH #SSD4-400C-400C-208-311-S-S-X304089VSCH. SWITCH SHALL BE PROVIDED WITH INTEGRAL 400A CIRCUIT BREAKERS FOR UTILITY AND GENERATOR INPUTS RATED PER UTILITY. SUSE RATED. UL 1008 LISTED. BOND SERVICE N-G WITHIN ENCLOSURE. MOUNT ON H-FRAME SUPPORT STRUCTURE. REFER TO ELECTRICAL SITE PLAN FOR PROPOSED LOCATION. INCLUDE ALL COSTS IN BASE BID. ONCE PERMANENT POWER IS CONNECTED, BUT PRIOR TO TURN OVER TO OWNER, GC SHALL COORDINATE WITH CHASE FACILITIES TO TEST FUNCTIONALITY OF MANUAL TRANSFER SWITCH. GC SHALL PROVIDE A GENERATOR TO PERFORM THIS TEST.
7. REFER TO DAINTREE CONTROL RISER DIAGRAM ON BUILDING MANAGEMENT SYSTEM DETAILS FOR ADDITIONAL INFORMATION REGARDING THE DAINTREE WIRELESS CONTROL SYSTEM.
8. SEE SPD PANELBOARD SCHEMATIC DETAIL ON THIS SHEET.

TENANT ELECTRICAL SERVICE LOAD SUMMARY

TENANT OCCUPANCY TYPE:	B	SERVICE DESCRIPTION:	
TENANT SQUARE FOOTAGE:	3,320	208Y/120V, 3PH	

LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
HVAC - SUMMER	39.75	100%	39.75
HVAC - WINTER	4.99	100%	0.00
LIGHTING (PER NEC-220)	2.87	125%	3.59
RECEPTACLES	24.56	100%,50%	17.28
MOTOR LOADS	2.50	100%	2.50
LARGEST MOTOR LOAD	0.00	125%	0.00
MISCELLANEOUS EQUIPMENT	9.62	100%	9.62
DISPLAY CASE/SIGNAGE	8.40	125%	10.50
EXTERIOR LIGHTING	1.05	125%	1.32
TOTAL LOAD	93.75	KVA	84.55
TOTAL AMPACITY	260.21	AMPS	234.70
SERVICE AMPACITY	400	AMPS	400.00
SPARE CAPACITY		AMPS	165

CHASE

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063
CHASE OVP#38200P368999

CORE STATES GROUP
CORESTATES, INC.
46 East Main Street Suite 201
Somerville, NJ 08876
908.4629700
www.core-states.com

ENGINEER OF RECORD

STATE OF MISSOURI
JOHN FERGUSON
NUMBER
PROFESSIONAL ENGINEER
06/01/2021

JOHN FERGUSON, P.E.
MISSOURI
LICENSE #: 2008014085

ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
2	2021.06.03	PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO:	JPM.27135.001
DATE:	2020.12.21
PROTOTYPE:	**20.2**
DRAWN BY:	D. BORELLI
CHECKED BY:	D. MULVANEY
VERSION:	SE_1.00

SHEET TITLE

POWER DETAILS AND SCHEDULES

SHEET NUMBER

E7.0

SYMBOLS LIST

SYMBOL	DESCRIPTION	BACKBOX REQUIREMENTS (BY EC)	CONDUIT REQUIREMENTS (BY EC)	MOUNTING HEIGHT (UNLESS NOTED OTHERWISE)
X	DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS /CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. REDUCER TO MATCH DRY WALL THICKNESS.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL - 18" AFF, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT
X	DATA OUTLET LOCATION, FLOOR MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT FACEPLATE OR INSERT TO FIT FLOOR BOX. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS/CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE.	DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING. REFER TO CABLE FILL CHART.	FLOOR
X	DATA OUTLET LOCATION, TABLE-TOP MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & INSERT TO FIT TABLE-TOP BOX. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS/CABLES.	NOT APPLICABLE - FED FROM FLOOR JUNCTION BOX.	CONCEAL CABLING FROM FLOOR JUNCTION BOX WITHIN WIRE MESH.	TABLE TOP
W	WALL MOUNTED TELEPHONE OUTLET LOCATION. WALL MOUNTED, 1-PORT OUTLET. PROVIDE (1) CAT 6 RJ-45 JACK, (1) HORIZONTAL CAT 6 CABLE, AND A 4-PORT FACEPLATE FOR MOUNTING A TELEPHONE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL 44" AFF WITH A 6" CLEARANCE ON ALL SIDES OF FACEPLATE, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT
TPC	TELEPRESENCE DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (1) CAT 6 RJ-45 JACK, (1) CAT6A, SHIELDED JACK, (2) 3.5mm OUTLETS, (1) HORIZONTAL CAT 6, UTP CABLE, (1) HORIZONTAL CAT 6A F/UTP CABLE, (2) 22 / 2 SHIELDED CABLES & A WHITE AV FACEPLATE. OUTLETS SHALL BE ANGLED. REFER TO FACEPLATE DETAIL FOR ADDITIONAL INFORMATION.	SINGLE GANG 3" X 2" X 2-3/4" BACK BOX	ONE 1" CONDUIT TO AV BACK BOX.	COORDINATE WITH AV DRAWINGS
VM-AV	VIDEO MONITOR OUTLET LOCATION, WALL MOUNTED. PROVIDE (1) CAT6A SHIELDED JACK, (1) F/UTP HORIZONTAL CAT 6A CABLE, & 1 MULTIMEDIA STYLE FACEPLATE WITH 2 PORT ANGLED BEZEL. PROVIDE BLANKS FOR UNOCCUPIED PORTS. REFER TO DETAIL ON TC-302.	SINGLE GANG 3" X 2" X 2-3/4" BACK BOX	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	COORDINATE WITH AV DRAWINGS
ATM	ATM DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (1) CAT6 & (1) CAT6A RJ-45 JACKS, (1) HORIZONTAL CAT6 CABLE, (1) HORIZONTAL CAT6A CABLE, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. REFER TO DETAIL ON TC-302.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	CONCEALED BEHIND ATM, COORDINATE WITH ATM DESIGN
WAP #	WIRELESS ACCESS POINT OUTLET LOCATION. CEILING MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY.	HARD CEILING LOCATIONS ONLY: 5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. SPECIALTY, OR OPEN-TO-STRUCTURE CEILING: SEE INSTALLATION DETAILS	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	CEILING
CAM	SECURITY CAMERA LOCATION. CEILING MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE, & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY COILED ABOVE THE CEILING FOR THE SECURITY CONTRACTOR TO ACCESS AND CONNECT TO THE CAMERA.	HARD CEILING LOCATIONS ONLY: 5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	ABOVE ACCESSIBLE CEILING
CAM	SECURITY CAMERA LOCATION. WALL MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY COILED ABOVE THE CEILING FOR THE SECURITY CONTRACTOR TO ACCESS AND CONNECT TO THE CAMERA.	NONE REQUIRED.	NONE REQUIRED.	SEE SECURITY PLANS FOR MOUNTING HEIGHTS
	FIRE-RATED WALL SLEEVE FOR HORIZONTAL CABLING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE
	WALL SLEEVE FOR HORIZONTAL CABLING TO CONNECT TWO ACCESSIBLE CEILINGS SEPARATED AN INACCESSIBLE CEILING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE
	LADDER RACK/CABLE RUNWAY INSTALLED WITHIN THE RMER AND/OR RTR. FINISH SHALL BE WHITE. SIZE AS INDICATED ON THE FLOOR PLAN DRAWINGS.	NOT APPLICABLE	NOT APPLICABLE	8'-0" AFF
	TELECOMMUNICATIONS GROUNDING BUSBAR.	NOT APPLICABLE	NOT APPLICABLE	6" BELOW LADDER RACK
	2-POST EQUIPMENT RACK WITH BLACK FINISH.	NOT APPLICABLE	NOT APPLICABLE	FLOOR
	VERTICAL WIRE MANAGER MOUNTED TO EITHER SIDE OF THE EQUIPMENT RACK WITH A BLACK FINISH. SIZE AS NOTED.	NOT APPLICABLE	NOT APPLICABLE	RACK
3 / 4	REFERENCE TO ANOTHER DRAWING VIEW. EXAMPLE SHOWN REFERS TO DETAIL 1 ON DRAWING TC-XXX.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

NOTES:
A. BACKBOXES SHALL BE AS FOLLOWS UNLESS ALTERNATE MANUFACTURER HAS BEEN APPROVED BY OPR:
1. BACKBOX WITH 1" AND 1-1/4" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55017.
2. BACKBOX WITH 3/4" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55018.
3. BACKBOX WITH 1/2" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55019.
4. 1/2" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G012.
5. 5/8" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G058.
6. 3/4" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G034.

OVERVIEW

JPMORGAN CHASE IS PROPOSING TO RENOVATE THE ENTIRE BUILDING LOCATED AT *890 E LANGSFORD RD, LEE'S SUMMIT, MO 64063* IN ORDER TO OCCUPY THIS SPACE, THERE IS A NEED TO INSTALL NEW STRUCTURED CABLING TO SUPPORT THEIR TELECOMMUNICATION REQUIREMENTS. THIS DOCUMENT CONTAINS THE SPECIFICATIONS FOR INSTALLING:

- CATEGORY 6 UTP, 6A UTP, & 6A F/UTP COPPER CABLING INFRASTRUCTURE AND ASSOCIATED HARDWARE
- TELECOM ROOM EQUIPMENT
- FIBER OPTIC CABLING AND ASSOCIATED HARDWARE

IN ADDITION TO THE FINAL DELIVERABLES MENTIONED IN THE JPMC STANDARDS, THE TC SHALL PROVIDE LAMINATED 'AS-BUILTS' (18"X24") OF THE FLOOR PLAN DRAWINGS IN RMER/RTR, MOUNTED TO THE WALL. 'AS-BUILT' DRAWINGS SHALL BE SUBMITTED PRIOR TO THE COMPLETION OF THE PROJECT AND IN COORDINATION WITH THE JPMC PROJECT TEAM AS THEY PLAN THE MOVE.

REFER ALL QUESTIONS TO OWNER'S PROJECT REPRESENTATIVE (OPR) LISTED BELOW:
KEVIN BRENNAN
JPMC
PH: 614-217-5158
EMAIL: kevin.m.brennan@jpmchase.com

BASE BID

ALL BID RESPONSES SHALL BE SUBMITTED ON A JPMC SUPPLIED BIDDERS RESPONSE FORM THAT IS INCLUDED IN THE BID PACKAGE. PROPER AND COMPREHENSIVE COMPLETION OF THE BIDDER PRICING FORMS IS A DETERMINING FACTOR IN THE CHOOSING OF THE CONTRACTOR. THE BASE BID SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE STRUCTURED CABLING SYSTEM (E.G., ALL CABLING, CONVEYANCE, PATCH PANELS, MISCELLANEOUS MATERIALS, LABELING, ETC. REGARDLESS OF MANUFACTURER SPECIFIC ITEMS AS IDENTIFIED IN THE BID). THE BIDDER IS RESPONSIBLE FOR ALL PERMITS AND SHALL INCLUDE THE COST IN THEIR BID. BIDDERS SHALL ALSO INCLUDE APPLICABLE TAXES IN THEIR RESPONSE.

ABBREVIATIONS

AFF = ABOVE FINISHED FLOOR
AFC = ABOVE FINISHED COUNTER
BAS = BUILDING AUTOMATION SYSTEM
BBC = BACKBONE BONDING CONDUCTOR
BICSI = BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CAT = CATEGORY (CABLING)
CCTV = CLOSED CIRCUIT TELEVISION
CM = CONSTRUCTION MANAGER
CP = CONSOLIDATION POINT
EC = ELECTRICAL CONTRACTOR
EMT = ELECTRICAL METALLIC TUBING
ENT = ELECTRICAL NON-METALLIC TUBING
ESD = ELECTROSTATIC DISCHARGE
F/UTP = FOIL SHIELD WITH UNSHIELDED TWISTED PAIR
GC = GENERAL CONTRACTOR
GTI = GLOBAL TECHNOLOGY INFRASTRUCTURE
IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
ISO = INTERNATIONAL ORGANIZATION FOR STANDARDS
LOB = LINE OF BUSINESS
MC = MECHANICAL CONTRACTOR
NEC = NATIONAL ELECTRICAL CODE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
OPR = OWNER'S PROJECT REPRESENTATIVE
PBB = PRIMARY BONDING BUSBAR
PDU = POWER DISTRIBUTION UNIT
PM = PROJECT MANAGER
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
RMER = RETAIL MAIN EQUIPMENT ROOM
RTR = RETAIL TELECOMMUNICATIONS ROOM
SBB = SECONDARY BONDING BUSBAR
SC = SECURITY CONTRACTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TC = TELECOMMUNICATIONS CONTRACTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TIA = TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UTP = UNSHIELDED TWISTED PAIR

INDEX OF DRAWINGS: TELECOMMUNICATIONS

CONDUIT REQUIREMENT CABLE FILL FOR UTP CABLE
(CAT 6 OD = 0.24", CAT 6A OD = 0.285")

CONDUIT TRADE SIZE	CONDUIT AREA (SQ IN)	40% FILL # OF CAT 6 CABLES	40% FILL # OF CAT 6A CABLES
1"	0.81	7	5
1-1/4"	1.27	11	9
1-1/2"	1.86	18	12
2"	3.26	28	21
3"	7.06	62	55
4"	12.56	111	92

ASSUMES INDUSTRY STANDARD AND NEC CODE IS TO DESIGN FOR A MAXIMUM OF 40% FILL. THE ACTUAL NUMBER OF CABLES WHICH CAN BE INSTALLED IN A PARTICULAR CONDUIT CAN BE LESS DEPENDING UPON CONDUIT LENGTH AND NUMBER OF BENDS. SEE CONDUIT INSTALLATION NOTES FOR MORE INFORMATION.

IMPLEMENTATION RESPONSIBILITY MATRIX

INSTALLATION ITEMS	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	SECURITY CONTRACTOR	A/V CONTRACTOR	3RD PARTY	JPMC
STRUCTURED CABLING - HORIZONTAL AND BACKBONE CABLING, RACKS, PATCH PANELS, PATCH CORDS			F & I				
CONDUITS AND BACKBOXES FOR STRUCTURED CABLING, AV, AND SECURITY DEVICES		F & I					
CABLE SUPPORTS (OUTSIDE OF RMER/RTRs) FOR STRUCTURED CABLING			F & I				
LADDER RACKS (INSIDE RMER/RTRs) FOR STRUCTURED CABLING			F & I				
FIRE-RATED SLEEVES INTO THE RMER/RTR			F & I				
GROUNDING TO THE RMER/RTR INCLUDING THE WALL MOUNTED BUSBAR		F & I					
GROUNDING IN THE RMER/RTR FROM THE WALL MOUNTED BUSBAR TO THE RACK BUSBAR & ALL OTHER EQUIPMENT			F & I				
PLYWOOD BACKBOARDS	F & I						
NETWORK EQUIPMENT WITHIN RMER/RTR						I	F
RACK MOUNTED POWER DISTRIBUTION UNITS (PDUs) FOR IT EQUIPMENT			F & I				
RACK MOUNTED POWER DISTRIBUTION UNITS (PDUs) FOR AV EQUIPMENT					F & I		
POWER CORDS FOR NETWORK EQUIPMENT WITHIN THE RMER/RTR			F & I				
WIRELESS ACCESS POINTS			I				F
SECURITY DEVICES - CAMERAS, CARD READERS, ETC.				F & I			
A/V EQUIPMENT - DISPLAYS, CONTROLS, SPEAKERS, AMPLIFIERS, ETC.					F & I		
WIRELESS CELLULAR ANTENNA SYSTEM						F & I	
WIRELESS CELLULAR ANTENNA SYSTEM PATHWAYS		F & I					

DEFINITIONS: F = FURNISH I = INSTALL

TELECOM SCOPE OF WORK

NEW SCOPE OF WORK

A. THE COPPER STRUCTURED CABLING SOLUTION FOR THIS PROJECT SHALL BE COMMSCOPE/SYSTIMAX FOR UTP CABLING INFRASTRUCTURE AND BERK-TEK/LEVITON FOR F/UTP CABLING INFRASTRUCTURE. THE FIBER STRUCTURED CABLING SOLUTION FOR THIS PROJECT SHALL BE CORNING.

B. FURNISH, INSTALL, LABEL AND TEST ALL CABLES AND COMPONENTS PER JPMC STRUCTURED CABLING STANDARDS.

C. THE TELECOMMUNICATIONS CONTRACTOR TO FURNISH AND INSTALL PATCH CORDS AT EVERY OUTLET LOCATION AND IN THE TELECOM ROOM, AND PATCH FROM THE PATCH PANEL TO NETWORK SWITCH IN THE RACK.

D. ALL OUTLETS, JACKS, CABLES, FACEPLATES AND PATCH PANEL IDs SHALL BE LABELED ACCORDINGLY TO REFLECT THE ACCURACY ON BOTH ENDS: TELECOMMUNICATION ROOM AND WORKSTATION.

E. WAP INSTALLATION: CONTRACTOR SHALL RECEIVE, UN-BOX, MOUNT, PATCH, AND RECORD RELEVANT INFORMATION FOR THE WIRELESS ACCESS POINTS FURNISHED BY THE OWNER. EACH WAP HAS TWO PATCHES THAT ARE INSTALLED FROM THE OUTLET TO THE WAP AND ONE ON THE RMER/RTR SIDE.

F. NETWORK ELECTRONICS EQUIPMENT RACK AND STACK: CONTRACTOR SHALL COORDINATE WITH JPMC GTI PROJECT MANAGER.

G. WALL PHONE INSTALLATION: CONTRACTOR SHALL RECEIVE, UN-BOX, MOUNT, PATCH, LABEL WALL PHONE BRACKETS, AND RECORD RELEVANT INFORMATION FOR THE WALL MOUNTED PHONES. THE WALL PHONE BRACKETS SHALL BE LABELED WITH THE TELECOMMUNICATIONS OUTLET LABEL ID ON THE TOP OF THE BRACKET SO IT IS VISIBLE AFTER THE WALL PHONE IS INSTALLED. THE CONTRACTOR SHALL ALSO MOUNT THE WALL PHONES. THE OWNER SHALL FURNISH THE WALL PHONES AND BRACKETS.

H. NETWORK TURN-UP: THE CONTRACTOR SHALL PROVIDE SUPPORT DURING NETWORK TURN-UP. THIS SHALL INCLUDE LABOR FOR TWO TECHNICIANS FOR OFF-HOURS WORK FOR TWO HOURS PER RMER AND/OR RTR.

GENERAL COORDINATION NOTES

A. RMERS AND RTRS SHALL NOT BE USED AS A PASS THROUGH (WHETHER UNDER A RAISED FLOOR OR ABOVE CEILING) FOR ANY OTHER TRADES ASIDE FROM STRUCTURED CABLING. ANY PENETRATIONS INTO THESE ROOMS, INCLUDING BUT NOT LIMITED TO ELECTRICAL OR MECHANICAL FIT-OUT TO SOLELY SUPPORT THE MERS AND TRS, SHALL BE ROUTED AWAY FROM THE TECHNOLOGY EQUIPMENT. ROUTING OF CONDUIT SHALL TAKE THE SHORTEST PATH INTO THESE ROOMS.

B. CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN DOCUMENTS PROVIDED. IN ALL CASES WHERE CONTRACTOR IDENTIFIES UNCLEAR OR IMPRECISE DRAWINGS OR SPECIFICATIONS DURING THE BIDDING OR QUOTATION PROCESS, CONTRACTOR SHALL CONTACT OPR, WHO SHALL FURNISH APPROPRIATE INTERPRETATION. UPON AWARD, CONTRACTOR ASSUMES RESPONSIBILITY FOR CORRECTING ANY AND ALL INCONSISTENCIES AT NO ADDITIONAL COST TO OWNER. HERE THE REQUIREMENTS OF CERTAIN SECTIONS OF THE SPECIFICATIONS ARE MORE STRINGENT THAN APPLICABLE CODES, RULES, REGULATIONS, AND ORDINANCES, THE SPECIFICATIONS SHALL APPLY. THE CONTRACTOR SHOULD NOTE ITEMS IN THE DRAWINGS OR THE SPECIFICATIONS, CONSTRUCTION OF WHICH WOULD RESULT IN CODE VIOLATIONS, THE CONTRACTOR SHALL PROMPTLY CALL THEM TO THE ATTENTION OF THE OPR IN WRITING.

CONDUIT INSTALLATION NOTES:

A. ALL NEW CONDUITS FOR TELECOMMUNICATIONS CARRIER CABLING SHALL BE RIGID METALLIC CONDUIT. EACH CONDUIT SHALL HAVE A 3-CELL MAXCELL INNERDUCT INSTALLED AND LABELED WITH THE SOURCE AND DESTINATION.

B. ALL CABLES MUST BE PULLED AT THE SAME TIME TO ACHIEVE THE GREATER FILL LEVELS.

C. PULL BOXES SHOULD BE PLACED EVERY 100 FEET OR IF MORE THAN 180 DEGREES OF BENDS ARE INSTALLED IN THE CONDUIT.

D. CONDUITS SHALL ENTER AND EXIT PULL BOXES IN A CONTINUOUS DIRECTION. PULL BOXES ARE NOT TO BE USED FOR 90 DEGREE BENDS.

E. ALL 90 DEGREE BENDS SHALL HAVE A SWEEPING BEND WITH A BEND RADII EQUAL TO AT LEAST 10 TIMES THE DIAMETER OF THE CONDUIT.

F. ALL CONDUIT END POINTS SHALL BE FREE OF SHARP EDGES AND PROVIDED WITH A SUITABLE BUSHING.

G. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED PRIOR TO THE STRUCTURED CABLING INSTALLATION. A PULL STRING SHALL ALSO BE WITHIN THE CONDUITS AFTER THE STRUCTURED CABLING INSTALLATION.

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

keyplan

FOR REFERENCE ONLY
ISSUED AND
PERMITTED BY OTHERS

seal

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG. NO. 166050
EXPIRES 12-31-23
RCDD

issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

designed KB | date 12.21.2020 | drawn KB
checked CC | scale AS NOTED

title
TELECOM DRAWING & SYMBOL LIST, NOTES & SCOPE OF WORK

job no.
OVP-38200P368999

sheet
TC-000

SECTION 27 00 00 - COMMUNICATIONS INTRODUCTORY STANDARD

PART 1 -

1.1 GENERAL REQUIREMENTS

A. THIS DOCUMENT IS INTENDED TO PROVIDE THE INFORMATION NECESSARY TO ALLOW THE DESIGN AND CONSTRUCTION TEAMS TO PLAN AND IMPLEMENT TELECOMMUNICATIONS CABLING INFRASTRUCTURES AND TO ENSURE THAT ALL NEW INSTALLATIONS AND RENOVATIONS ARE UNIFORM AND CONSISTENT WITH COMPANY-WIDE STANDARDS. THIS DOCUMENT IDENTIFIES THE TELECOMMUNICATIONS INFRASTRUCTURE REQUIREMENTS FOR RETAIL SPACES.

B. IT IS ENVISIONED THAT NOT ALL RETAIL SPACES WILL REQUIRE THE COMPLETE RANGE OF SERVICES AND TELECOMMUNICATIONS INFRASTRUCTURE DESCRIBED IN THIS DOCUMENT. THE EXACT SOLUTION THAT SUITS EACH PARTICULAR SPACE WILL BE DEFINED AT THE COMMENCEMENT OF EACH PROJECT BY THE PROJECT TEAM.

1.2 PURPOSE

A. THIS STANDARD FOR RETAIL STRUCTURED CABLING DESIGN AND THE ACCOMPANYING APPENDICES IS INTENDED AS A STANDARD TO BE USED BY CONSTRUCTION DESIGN PROFESSIONALS (ARCHITECTS, ENGINEERS, DESIGNERS, ETC.). ITS PURPOSE IS TO DEFINE THE BASELINE DESIGN FOR RETAIL FACILITIES IN ORDER TO MAKE THEM EASIER TO SPECIFY, UTILIZE, AND MANAGE, AND TO STATE THE CABLING INFRASTRUCTURE STANDARDS ASSOCIATED WITH THESE SPACES. TO PROMOTE WIDE UNDERSTANDING IT IS BUILT UPON A FOUNDATION OF RECOGNIZED INDUSTRY STANDARDS AND BEST PRACTICES.

B. THIS STANDARD MUST BE USED AS A TOOL TO PLAN RETAIL FACILITIES. THIS DOCUMENT IS NOT INTENDED TO REPLACE THE SPECIFIC NEEDS OF A GIVEN RETAIL FACILITY OR ASSOCIATED DESIGN COORDINATION. IT MUST BE USED IN CONJUNCTION WITH NEEDS ASSESSMENT AND PROPER DESIGN COORDINATION. SPECIFIC PROJECT REQUIREMENTS SHALL BE DEFINED IN T-SERIES DRAWINGS THAT SHALL BE ISSUED AS PART OF A COMPLETE CONSTRUCTION DRAWING SET WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

C. IF A STANDARD CANNOT BE MET DURING THE PLANNING AND DESIGN PHASES, THE GROUP ACCOUNTABLE TO MEET THE REQUIREMENTS MUST SUBMIT A REQUEST FOR EXCEPTION APPROVAL PRIOR TO PROCEEDING WITH A DEVIATION FROM THE STANDARD.

1.3 DESIGN CONSULTANT REQUIREMENTS

A. IN THE CASE WHERE A PROJECT IS DESIGNED BY AN ENTITY OTHER THAN THE JPMC STRUCTURED CABLING ENGINEERING TEAM, THE DESIGN CONSULTANT SHALL MEET ONE OF THE FOLLOWING CRITERIA:
   1. THE ENGINEER SHALL BE A BICSI RCDD IN GOOD STANDING WITH AT LEAST 2 YEARS OF EXPERIENCE IN STRUCTURED CABLING DESIGN AND CONSTRUCTION MANAGEMENT.
   2. THE ENGINEER SHALL HAVE 10 YEARS OF EXPERIENCE IN STRUCTURED CABLING DESIGN AND CONSTRUCTION MANAGEMENT.

1.4 TECHNOLOGY SPACE DEFINITIONS

A. THE FOLLOWING ARE THE TYPES OF TECHNOLOGY SPACES THAT ARE FOUND IN RETAIL FACILITIES, RETAIL MAIN EQUIPMENT ROOM (RMER), RETAIL TELECOMMUNICATIONS ROOM (RTR), AND RETAIL TELECOMMUNICATIONS ENCLOSURE (RTE).

B. RETAIL MAIN EQUIPMENT ROOM (RMER): THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION POINT FOR THE TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES WITHIN THAT BUILDING, HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA, AND THE INTERFACE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS). ITEMS WITHIN THE RMER INCLUDE:
   1. FLOOR MOUNTED EQUIPMENT RACKS.
   2. JPMC NETWORKING EQUIPMENT (ROUTERS AND SWITCHES).
   3. BACKBONE CABLING TERMINATIONS FROM RMER TO RTRS (IF APPLICABLE).
   4. HORIZONTAL CABLING TERMINATIONS.
   5. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
   6. WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
   7. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
   8. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
   9. DEDICATED COOLING UNIT.
   10. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
   11. ACCESS CONTROL SYSTEM PANELS.
   12. INTRUSION DETECTION SYSTEM PANELS.
   13. MOOD MUSIC SYSTEM EQUIPMENT.
   14. BUILDING MANAGEMENT SYSTEM (BMS) EQUIPMENT.

C. RETAIL TELECOMMUNICATIONS ROOMS (RTR): A RTR SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA. ITEMS WITHIN A RTR INCLUDE:
   1. FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
   2. JPMC NETWORKING EQUIPMENT (SWITCHES).
   3. BACKBONE CABLING TERMINATIONS TO THE RMER.
   4. HORIZONTAL CABLING TERMINATIONS.
   5. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
   6. TELECOMMUNICATIONS GROUNDING BUSBAR.
   7. DEDICATED COOLING UNIT.
   8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.

D. STAND ALONE ATM: SMALL ROOM ADJOINING OR BEHIND THE FRONT OF THE ATMS AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24). ITEMS INCLUDE:
   1. FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
   2. JPMC NETWORKING EQUIPMENT (SWITCH).
   3. HORIZONTAL CABLING TERMINATIONS.
   4. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
   5. WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
   6. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
   7. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
   8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
   9. ACCESS CONTROL SYSTEM PANELS.
   10. INTRUSION DETECTION SYSTEM PANELS.
   11. ELECTRICAL PANEL

E. TELECOMMUNICATIONS ENCLOSURE (TE): A TE SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24) FOR A GIVEN SMALL AREA AND SHALL ONLY BE USED WHEN ABSOLUTELY NECESSARY WITH APPROVAL FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. A TE CONSISTS OF:
   1. WALL MOUNTED OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
   2. JPMC NETWORKING EQUIPMENT (SWITCH).
   3. HORIZONTAL CABLING TERMINATIONS.
   4. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
   5. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
   6. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.

F. ITEMS NOT WITHIN THE RMER OR RTR INCLUDE:
   1. ELECTRICAL PANELS.
   2. FIRE ALARM PANELS.
   3. DOMESTIC WATER PIPING.
   4. SANITARY WATER PIPING.
   5. HVAC PIPING UNLESS TO SUPPORT THE RMER/RTR COOLING UNIT.
   6. FIRE PROTECTION PIPING UNLESS TO SUPPORT THE RMER/RTR PER LOCAL CODES.

G. ITEMS NOT WITHIN TE INCLUDE:
   1. DOMESTIC WATER PIPING.
   2. SANITARY WATER PIPING.
   3. HVAC PIPING.
   4. FIRE PROTECTION PIPING UNLESS TO SUPPORT THE TE PER LOCAL CODES.

H. GUIDELINES FOR QUANTITY AND LOCATION OF CRITICAL TECHNOLOGY SPACES.
   1. RMER:
      a. ONE PER FACILITY, CENTRALLY LOCATED AS MUCH AS POSSIBLE, TO SERVE UP TO 10,000 SQUARE FEET OF SPACE ON THE SAME FLOOR/LEVEL.
   2. RTR:
      a. ONE PER ADDITIONAL FLOOR/LEVEL THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE.
      b. ONE PER ADDITIONAL 10,000 SQUARE FEET THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE FOR THE AREA SERVED.
   3. TE:
      a. ONLY TO BE USED WITHIN A STAND-ALONE ATM DESIGN (NON-STAFFED LOCATION WITH ONLY ONE OR TWO ATMS).

1.5 DEFINITIONS/TERMINOLOGY/ABBREVIATIONS

A. AHJ: AUTHORITY HAVING JURISDICTION AS DEFINED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.

B. AS-BUILT: DOCUMENTATION THAT INCLUDES FLOOR PLAN DRAWINGS THAT INDICATE ALL STRUCTURED CABLING OUTLET LOCATIONS WITH CABLE LABELING, MAJOR CABLING PATHWAYS, AND RMER/RTR/TE LAYOUTS WITH RACK ELEVATIONS UPON JOB COMPLETION THAT REFLECTS CHANGES FROM THE PLANNED TO THE FINISHED STATE.

C. CM: CONSTRUCTION MANAGER

D. CONTRACTOR: THE STRUCTURED CABLING INSTALLATION CONTRACTOR

E. FURNISH: THE CONTRACTOR SHALL SUPPLY.

F. GC: GENERAL CONTRACTOR

G. HC: HORIZONTAL CROSS-CONNECT

H. ILEC: INCUMBENT LOCAL EXCHANGE CARRIER.

I. INSTALL: TO PUT INTO PLACE OR FIX IN POSITION READY FOR USE.

J. JPMC: JP MORGAN CHASE & COMPANY

K. MANDATORY: EQUIVALENT TERMS INCLUDE *MUST, SHALL, WILL, IS REQUIRED, & ARE REQUIRED*.

L. RMER: RETAIL MAIN EQUIPMENT ROOM

M. RTR: RETAIL TELECOMMUNICATIONS ROOM

N. OPR: OWNER'S PROJECT REPRESENTATIVE. JPMC'S DESIGNATED REPRESENTATIVE RESPONSIBLE FOR A SUCCESSFUL PROJECT OUTCOME.

O. OPTIONAL: EQUIVALENT TERMS INCLUDE *CAN, MAY, SHOULD, PREFERABLY, PREFERS, DESIRED, & DESIRABLE*.

P. OWNER: JP MORGAN CHASE & COMPANY

Q. PROJECT DOCUMENTS: ALL DOCUMENTS THAT PERTAIN TO THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PROJECT DRAWINGS, THIS STANDARD, AND PROJECT SPECIFICATIONS.

R. PROVIDE: TO FURNISH AND INSTALL.

S. SPECIFICATIONS: DIVISION 27 SPECIFICATIONS, WHICH OUTLINES GENERAL INSTALLATION REQUIREMENTS.

T. TE: TELECOMMUNICATIONS ENCLOSURE

1.6 CODES, REGULATIONS, & STANDARDS

A. ALL ASPECTS OF CONSTRUCTION AND INSTALLATION MUST MEET APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, AS WELL AS ANY REGULATIONS SPECIFIC TO A SITE. LEGALLY BINDING REQUIREMENTS MUST PREVAIL IF THERE ARE ANY CONFLICTS WITH REQUIREMENTS STATED OR IMPLIED IN THIS DOCUMENT. THE AHJ WILL BE THE ARBITER IN SITUATIONS WHERE INTERPRETATION IS NECESSARY TO CLARIFY INFORMATION, OR TO RESOLVE CONFLICTS INVOLVING LEGALLY BINDING REQUIREMENTS.

B. WORK SAFETY MUST BE IN COMPLIANCE WITH PUBLIC LAW 91-596, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). AS APPLICABLE, REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE MUST BE FOLLOWED.

C. CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS EXPLICIT TO THIS STANDARD ARE LISTED IN SECTION 1.8 BELOW, BUT THEY ARE NOT EXHAUSTIVE. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS DOCUMENT, THERE IS AN IMPLIED REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW.

D. CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS CHANGE OVER TIME. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA, ANNEXES, AND AMENDMENTS) MUST BE USED AT THE TIME FACILITIES ARE DESIGNED AND WHEN THEY ARE UTILIZED.

E. ALTHOUGH A NUMBER OF STANDARDS AND PRACTICES ARE CITED IN THIS DOCUMENT, ANSI/TIA-569 “COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS” HAS BOTH EXPLICIT AND IMPLICIT THREADS THROUGHOUT.

F. ADDITIONALLY INFLUENCING THIS STANDARD ARE ACCEPTED INDUSTRY PRACTICES DOCUMENTS SUCH AS THOSE IN THE NECA/BICSI-568 “STANDARD FOR INSTALLING COMMERCIAL BUILDING COMMUNICATIONS CABLING”, AND THE BICSI *“TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM)”*.

1.7 REFERENCED JPMC STANDARDS

A. FOR ARCHITECTURE: RETAIL DESIGN COMMUNICATION #18-007.

B. FOR PHYSICAL SECURITY: TS - NAMR - RETAIL FACILITY SECURITY DESIGN STANDARD VERSION 1.0

1.8 REFERENCED CODES AND STANDARDS

A. UNLESS OTHERWISE SPECIFICALLY STATED IN THIS DOCUMENT, ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE FOLLOWING REFERENCE STANDARDS. IN ANY CASE WHERE REGIONAL STANDARDS DISAGREE, LOCAL CODES AND STANDARDS APPLY. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS STANDARD DOCUMENT, THERE IS AN IMPLIED REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA, ANNEXES, AND AMENDMENTS) MUST BE USED.
   1. AMERICANS WITH DISABILITIES ACT (ADA)
   2. ASHRAE TC9.9 2011 THERMAL GUIDELINES FOR DATA PROCESSING ENVIRONMENTS
   3. BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL, (CURRENT EDITION)
   4. CAN/ULC S115, STANDARD METHOD OF FIRE TESTS OF FIRESTOPS SYSTEMS
   5. NFPA 70 NATIONAL ELECTRICAL CODE (CURRENT VERSION AS APPLICABLE TO SITE LOCATION)
   6. TIA 568.0.D - GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES
   7. TIA 568.1.D - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
   8. TIA-568-C.2 - BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARDS
   9. TIA 568.3.D - OPTICAL FIBER CABLING COMPONENTS STANDARD
   10. TIA -569-C COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES
   11. ANSI/TIA-EIA-569-D TELECOMMUNICATIONS PATHWAYS AND SPACES
   12. TIA/EIA-606-C ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE
   13. TIA-607 COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
   14. TIA/EIA-72 CENTRALIZED OPTICAL FIBER CABLING GUIDELINES
   15. TIA/EIA-758-B CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS CABLING STANDARD

PART 2 - PRODUCTS

2.1 STRUCTURED CABLING REQUIREMENTS

A. COPPER AND FIBER OPTIC CABLING
   1. FOR UTP COPPER CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY COMMSCOPE SYSTIMAX AND THE CONTRACTOR SHALL BE AN AUTHORIZED COMMSCOPE UNIPRISE BUSINESS PARTNER (BP).
   2. FOR F/UTP COPPER CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY BERK-TEK & LEVITON.
   3. FOR FIBER OPTIC CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY CORNING AND THE CONTRACTOR SHALL BE CERTIFIED AS A CORNING PREFERRED INSTALLER (PI).

B. CABLING TYPES
   1. HORIZONTAL CABLING FOR ALL WIRELESS ACCESS POINTS AND IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE CATEGORY 6A UTP.
   2. HORIZONTAL CABLING FOR ALL NON-WIRELESS ACCESS POINTS AND NON-IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE CATEGORY 6 UTP.
   3. HORIZONTAL CABLING FOR ALL HDBASE-T CONNECTIONS SHALL BE CATEGORY 6A F/UTP.
   4. HORIZONTAL CABLING FOR IP-SECURITY CAMERAS OVER 100M IN LENGTH SHALL BE OM3 MULTIMODE FIBER OPTIC CABLE.

C. CABLE SUPPORT & PROTECTION
   1. WITHIN JPMC OWNED OR LEASED SPACES:
      a. ABOVE AN ACCESSIBLE CEILING: SUPPORTED BY EITHER J-HOOKS OR A WIRE-BASKET STYLE CABLE TRAY.
      b. ABOVE A HARD CEILING: WITHIN CONDUIT.
   2. OUTSIDE OF JPMC OWNED OR LEASED SPACES:
      a. ABOVE AN ACCESSIBLE CEILING: WITHIN CONDUIT.
      b. ABOVE A HARD CEILING: WITHIN CONDUIT.
   3. ANY REQUIRED JUNCTION AND/OR PULL BOXES LOCATED OUTSIDE OF JPMC OWNED OR LEASED SPACE SHALL BE PROVIDED WITH LOCKS OR TAMPER-PROOF SCREWS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.

D. MATERIAL INTERPRETATION
   1. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY OWNER. CONTRACTOR SHOULD NOT ASSUME THAT MATERIALS LISTED IN THIS SPECIFICATION MUST BE INSTALLED MERELY BECAUSE THEY ARE LISTED IN THIS SPECIFICATION. PROJECT-SPECIFIC DETAIL ON REQUIRED MATERIALS IS FURTHER DEFINED IN THE ACCOMPANYING PROJECT DRAWINGS.

PART 3 - EXECUTION

3.1 RMER, RTR, & STAND ALONE ATM DESIGN REQUIREMENTS

A. FOR SITE UTILITIES, ARCHITECTURAL, MECHANICAL, FIRE SUPPRESSION, ELECTRICAL, SECURITY, AND MORE STRUCTURED CABLING REQUIREMENTS, SEE APPENDIX B.

3.2 CONSTRUCTION PROGRESS CHECKLIST

A. FOR A COMPREHENSIVE LIST OF ITEMS TO BE COMPLETED AT VARIOUS MILESTONES OF CONSTRUCTION, SEE APPENDIX A. THE MILESTONES ARE AS FOLLOWS AND SHALL BE INCORPORATED INTO THE CONSTRUCTION SCHEDULE.
   1. SHELL READY - CONSISTS OF GENERAL, MEP, & STRUCTURED CABLING CONSTRUCTION ITEMS.
   2. ROOM READY - CONSISTS OF GENERAL, MEP, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS.
   3. PRODUCTION READY - CONSISTS OF SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS.
   4. WORKPLACE READY - CONSISTS OF GENERAL, MEP, FURNITURE, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS OUTSIDE OF THE RMER/RTR.

END OF SECTION

① SECTION 27 00 00 COMMUNICATIONS INTRODUCTORY STANDARD

SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR ALL STRUCTURED CABLING INSTALLATION CONTRACTORS.

1.2 INSTALLATION CONTRACTOR REQUIREMENTS

A. CERTIFICATIONS/TRAINING
   1. THE CONTRACTOR MUST HAVE FIVE YEARS MINIMUM EXPERIENCE IN STRUCTURED CABLING INSTALLATIONS.
   2. THE CONTRACTOR SHALL BE A COMMSCOPE SYSTIMAX CERTIFIED CONTRACTOR IN ORDER TO PROVIDE A MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE UTP CABLING INFRASTRUCTURE.
   3. THE CONTRACTOR SHALL BE A BERK-TEK/LEVITON CERTIFIED CONTRACTOR IN ORDER TO PROVIDE A MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE F/UTP CABLING INFRASTRUCTURE.
   4. THE CONTRACTOR SHALL BE A CORNING CERTIFIED CONTRACTOR IN ORDER TO PROVIDE A MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE FIBER CABLING INFRASTRUCTURE.
   5. THE CONTRACTOR MUST HAVE AT LEAST ONE EMPLOYEE THAT IS A BICSI CERTIFIED INSTALLER 1, INSTALLER 2, OR TECHNICIAN ON SITE DURING THE INSTALLATION OF STRUCTURED CABLING.

B. UNION AFFILIATION
   1. IF REQUIRED BASED ON THE LOCATION OF THE PROJECT, THE CONTRACTOR SHALL BE A MEMBER OF THE LOCALLY RECOGNIZED UNION. THIS MAY INCLUDE, BUT NOT LIMITED TO, IBEW OR CWA.

1.3 APPROVED CONTRACTORS

A. PREFERRED CABLING CONTRACTOR MASTER LIST
   1. JPMC UTILIZES A LIST OF PRE-QUALIFIED CONTRACTORS TO PERFORM ALL STRUCTURED CABLING INSTALLATIONS. IN ORDER FOR A CONTRACTOR TO PROVIDE PRICING FOR A STRUCTURED CABLING INSTALLATION PROJECT, THE CONTRACTOR MUST BE ON THIS LIST.
   2. JPMC'S STRUCTURED CABLING DESIGN TEAM MAINTAINS THE PREFERRED CABLING CONTRACTOR MASTER LIST THAT IDENTIFIES CABLING CONTRACTORS THAT ARE PROPERLY AND TECHNICALLY QUALIFIED TO INSTALL PRODUCTS SPECIFIED WITHIN THIS STANDARD, HAVE THE FINANCIAL STRENGTH TO PERFORM PROJECTS WITHOUT DISRUPTIONS, AND HAVE A DOCUMENTED HISTORY OF SUCCESS IN PREVIOUS PROJECTS. THE STRUCTURED CABLING DESIGN TEAM IS THE SUBJECT MATTER EXPERT WITHIN JPMORGAN CHASE, REGARDING MATTERS INCLUDING, BUT NOT LIMITED TO QUALIFYING CERTIFIED CONTRACTORS. THE LIST IDENTIFIES IF A CONTRACTOR IS QUALIFIED TO PERFORM WORK IN OUR CORPORATE FACILITIES, AND/OR OUR RETAIL FACILITIES. GREAT CARE AND CONSTANT ATTENTION IS GIVEN TO THE MAINTENANCE OF THIS LIST, AND CONDITIONS FOR PROBATION AND ELIMINATION FROM OUR LIST BASED ON CONTRACTOR PERFORMANCE IS CONTAINED WITHIN THE PREFERRED CONTRACTOR MASTER LIST.

B. SUBCONTRACTORS
   1. JPMC STRUCTURED CABLING PROJECTS AS DEFINED BY THIS STANDARD SHALL ONLY BE IMPLEMENTED BY CONTRACTORS ON THE PREFERRED CABLING CONTRACTOR MASTER LIST. THE INSTALLATION CONTRACTORS ON THIS LIST SHALL NOT SUBCONTRACT WORK TO OTHERS WITHOUT PRIOR WRITTEN OPR APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REMOVAL FROM CONSIDERATION FOR FUTURE JPMC PROJECTS. CONTRACTOR SHALL EVALUATE STAFFING REQUIREMENTS FOR CONTEMPLATED JPMC PROJECTS, AND SUBMIT REQUEST FOR SAID OPR APPROVAL AT THE TIME THAT THEY TENDER THEIR INITIAL PROPOSAL.

C. NEW CONTRACTOR PROBATION
   1. A CONTRACTOR THAT HAS BEEN ADDED TO THE PREFERRED CONTRACTOR LIST IS AUTOMATICALLY PLACED ON PROBATION. THE NEW CONTRACTOR PROBATION PERIOD IS THE GREATER OF 1) 90 DAYS, AND 2) AFTER TWO OR MORE PROJECTS HAVE BEEN ACCEPTED VIA AN ON-SITE INSPECTION BY OPR. THE NEW CONTRACTOR SHALL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE PREFERRED CONTRACTOR LIST IF A) THE RESULTS OF AN ON-SITE INSPECTION ARE JUDGED BY THE INSPECTOR TO BE UNSATISFACTORY, OR B) UPON THE OCCURRENCE OF ONE PROBATION EVENT AS DEFINED UNDER EXISTING CONTRACTOR PROBATION IN THIS STANDARD. AT THE SUCCESSFUL CONCLUSION OF THE PROBATION PERIOD, THE NEW CONTRACTOR SHALL BE ADDED TO THE PREFERRED CONTRACTOR LIST.

D. EXISTING CONTRACTOR PROBATION
   1. AN EXISTING CONTRACTOR PROBATION EVENT OCCURS WHEN THE STRUCTURED CABLING DESIGN TEAM DETERMINES, IN THEIR SOLE DISCRETION, THAT THE CONTRACTOR HAS FAILED TO ADHERE TO INSTALLATION REQUIREMENTS AS DEFINED BY THE RETAIL STRUCTURED CABLING DESIGN STANDARD AND AFFILIATED DOCUMENTS. CONTRACTOR SHALL BE NOTIFIED IN WRITING REGARDING THE PROBATION EVENT, INCLUDING DETAILS OF THE EVENT, DATE OF THE EVENT, AND CONTACT INFORMATION FOR THE OPR THAT IS RESPONSIBLE FOR ADMINISTRATION OF THE PROBATION. EXISTING CONTRACTOR PROBATION PERIOD IS THE GREATER OF 1) 90 DAYS, AND 2) AFTER TWO OR MORE PROJECTS HAVE BEEN ACCEPTED VIA AN ON-SITE INSPECTION BY OPR, AND DEVIATIONS ASSOCIATED WITH THE PROBATION EVENT HAVE BEEN CORRECTED AND ACCEPTED IN WRITING BY OPR. CONTRACTOR SHALL BE IMMEDIATELY AND PERMANENTLY REMOVED FROM THE PREFERRED CONTRACTOR LIST IF A) TWO PROBATION EVENTS OCCUR IN ANY ROLLING 18-MONTH PERIOD, OR B) CONTRACTOR FAILS TO CORRECT DEVIATIONS FROM INSTALLATION REQUIREMENTS AS SPECIFIED IN THIS CLAUSE WITHIN 45 CALENDAR DAYS OF NOTIFICATION, OR C) CONTRACTOR HAS SUBCONTRACTED IN WHOLE OR IN PART A PROJECT WITHOUT PRIOR OWNER NOTIFICATION AND WRITTEN APPROVAL THEREOF, OR D) IN THE SOLE JUDGMENT OF OWNER, CONTRACTOR HAS FALSIFIED TEST RESULTS. CONTRACTOR SHALL BE NOTIFIED IN WRITING REGARDING PROBATION STATUS CHANGE, INCLUDING BUT NOT LIMITED TO PLACEMENT ON PROBATION, LIFTING OF PROBATION, AND REMOVAL FROM THE PREFERRED CONTRACTOR LIST.

E. OTHER CONTRACTOR CHANGES
   1. UPON UNANIMOUS VOTE BY THE STRUCTURED CABLING TEAM, CONTRACTOR MAY BE REMOVED FROM THE PREFERRED CONTRACTOR LIST AT THE SOLE DISCRETION OF THE JPMC STRUCTURED CABLING TEAM AT ANY TIME, AND WITHOUT ADVANCE NOTICE BY JPMC. REASONS INCLUDE, BUT ARE NOT LIMITED TO:
      a. CONTRACTOR LOSS OF PROPER MANUFACTURER CERTIFICATION
      b. CONTRACTOR ASSESSMENT OF MACD (MOVE ADD CHANGE DISCONNECT) FEES, WHICH, IN THE SOLE JUDGMENT OF THE JPMC STRUCTURED CABLING TEAM, ARE DETERMINED TO BE CONSISTENTLY EXCESSIVE
      c. FALSIFYING TEST RESULTS.
   2. UPON EXECUTION OF THIS CLAUSE, THE JPMC STRUCTURED CABLING TEAM MAY OR MAY NOT ISSUE NOTIFICATION TO CONTRACTOR REGARDING SAID REMOVAL.

1.4 OTHER CONTRACTOR REQUIREMENTS

A. OMISSIONS
   1. CONTRACTOR OMISSION OF ANY REQUIREMENT DESCRIBED IN PROJECT DOCUMENTS SHALL NOT BE CONSTRUED AS TO RELIEVE CONTRACTOR OF ANY RESPONSIBILITY OR OBLIGATION REQUIRED TO AFFECT THE COMPLETE AND SATISFACTORY DELIVERY, OPERATION, AND SUPPORT OF ANY AND ALL MATERIALS OR SERVICES.

B. CONTRACTOR ADVERTISING
   1. CONTRACTOR SHALL NOT SOLICIT WRITTEN OR VERBAL TESTIMONIALS FROM JPMC PERSONNEL AT ANY TIME. CONTRACTOR SHALL NOT INSTALL OR POST IN JPMC PROPERTIES ANY FORM OF SIGNAGE THAT CONTAINS CONTRACTOR NAME, ADDRESS, TELEPHONE NUMBER, OR LOGO. PHOTOGRAPHS WITHIN JPMC BUILDINGS INCLUDING TECHNOLOGY SPACES ARE STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF JPMC IT RISK MANAGEMENT AND THE LOCAL JPMC SITE MANAGER. ALL REQUESTS SHALL BE SUBMITTED TO THE OPR FOR ROUTING.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. NEW MATERIALS
   1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.

B. EQUIVALENTS
   1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.

C. SUBSTITUTIONS
   1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA RFI'S, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE. MATERIALS MUST BE COMPATIBLE WITH THE END-TO-END SOLUTION BEING PROPOSED

PART 3 - EXECUTION

3.1 PROTECTION OF PROPERTY

A. EXTREME CARE SHALL BE TAKEN BY CONTRACTOR TO PROTECT ALL COMPONENTS OF THE PROPERTY FROM DAMAGE. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES THAT ARE BROKEN DURING CABLE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL PROTECTIVE DEVICES AND COVERINGS REQUIRED TO PROTECT AREAS ADJACENT TO THE WORK AREA. CONTRACTOR SHALL REPAIR DAMAGE TO AREAS ADJACENT TO THE WORK AREA AT NO COST TO THE OWNER, OR THE OWNER SHALL MAKE THE REPAIRS AND BACK CHARGE AGAINST THE TELECOM CONTRACTOR. CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGES TO THIRD PARTIES INCURRED AS A RESULT OF CONTRACTOR'S WORK IN THIS PROJECT. PROTECTION OF PROPERTY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING PROTECTIVE MEASURES:
   1. KEEPING THE RMER OR RTR FREE OF FOOD AND DRINK AT ALL TIMES.
   2. LEAVING RMER OR RTR DOORS CLOSED AT ALL TIMES.
   3. EMPLOYING HEPA VACUUM WHENEVER DRILLING, CUTTING, CORING, OR PERFORMING ANY WORK THAT WILL IMPACT AIR QUALITY.

B. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO SECURE, READ AND UNDERSTAND ALL RELEVANT JPMC STANDARDS, AND EXECUTE INSTALLATIONS IN ACCORDANCE WITH SAID STANDARDS.

3.2 DOCUMENTATION

A. UPON REQUEST BY JPMC, THE CONTRACTOR SHALL PROVIDE PROOF OF ANY CERTIFICATIONS, TRAINING, OR UNION AFFILIATIONS.

END OF SECTION

② SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

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A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location
JP MORGAN CHASE & CO
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date 12.21.2020
drawn KB
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title
TELECOM BOOK SPECS

job no.
OVP-38200P368999

sheet
TC-001

SECTION 27 05 03 - TECHNOLOGY SPACE CLEANING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR FINAL CLEANING OF TECHNOLOGY SPACES, INCLUSIVE OF RETAIL MAIN EQUIPMENT ROOMS (RMERS), RETAIL TELECOMMUNICATIONS ROOMS (RTRS), AND STAND ALONE ATMS.

1.2 STANDARDS OF OPERATION

A. CLEANING PERSONNEL ARE REQUIRED TO OBSERVE THE TECHNOLOGY ROOM STANDARDS OF OPERATIONS AT ALL TIMES. AT A MINIMUM, THIS INCLUDES:
   1. NO FOOD OR DRINK IN THE ROOM
   2. NO PROPPING TECHNOLOGY ROOM DOORS
   3. NO INTERFERING WITH THE OPERATION OF TECHNOLOGY ROOM EQUIPMENT
   4. NO UNAUTHORIZED/UN-BADGED PERSONNEL IN TECHNOLOGY ROOM

B. WORKERS MUST WEAR CLOTHING THAT EASILY IDENTIFIES THEM AS MEMBERS OF THE CLEANING COMPANY.

C. DURING THE CLEANING, WORKERS ARE RESPONSIBLE FOR CONDUCTING THEMSELVES IN SUCH A MANNER AS TO PROTECT THE OWNER'S EQUIPMENT AND INFRASTRUCTURE AND TO AVOID CREATING HAZARDS FOR EMPLOYEES WHO ENTER THE WORK AREA.

D. SIGNAGE OR SAFETY CONES SHOULD BE USED TO SURROUND OPEN FLOOR TILES, ELECTRICAL CORDS STRUNG ALONG THE FLOOR, AND ANY AREAS THAT ARE BEING DAMP-MOPPED.

PART 2 - PRODUCTS

2.1 APPROVED EQUIPMENT & MATERIALS

A. THE CONTRACTOR WILL USE THE FOLLOWING APPROVED EQUIPMENT AND SUPPLIES:
   1. TRIPLE-FILTRATION HIGH-EFFICIENCY PARTICULATE AIR (HEPA) OR S-CLASS VACUUMS, CAPABLE OF REMOVING 99.97 PERCENT OF PARTICLES 0.3 MICRONS OR LARGER.
   2. CLEANING CHEMICALS THAT ARE PH NEUTRAL, STATIC DISSIPATIVE, AND APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS.
   3. MATERIAL SAFETY DATA SHEETS MUST BE PROVIDED TO THE OWNER PRIOR TO PERFORMING WORK.
   4. CANNED AIR.
   5. LINT-FREE MOPS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS. MOPS SHOULD HAVE NONMETAL HANDLES AND SEWN ENDS, TO PREVENT SNAGGING. MOP HEADS SHOULD HAVE LOOPED ENDS, NOT ENDS THAT ARE OPEN OR STRINGY OR BOTH.
   6. LINT-FREE, ANTISTATIC WIPES AND TOWELS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS.
   7. LOW-SPEED FLOOR SCRUBBING MACHINES.
   8. ELECTRICAL CORDS THAT ARE IN GOOD CONDITION AND POSSESS APPROPRIATE GROUND CONFIGURATION.
   9. A STABLE STEPLADDER WITH NON-MARKING RUBBER FEET.

PART 3 - EXECUTION

3.1 EQUIPMENT CLEANING PROCEDURES

A. A HEPA VACUUM WILL BE USED TO CLEAN THE HORIZONTAL SURFACES OF ALL EQUIPMENT.

B. CLOTHS TREATED WITH ANTISTATIC PROPERTY CHEMICAL WILL BE USED TO WIPE DOWN ALL EXTERNAL SURFACES OF ALL CABINETS, POLYSTYRENE END-ROW SHEETS, SERVERS, NETWORKING DEVICES, AND STORAGE UNITS.

C. CHEMICALS WILL NOT BE SPRAYED DIRECTLY ONTO EQUIPMENT.

D. KEYBOARDS WILL NOT BE TOUCHED DURING CLEANINGS.

E. CLEANING ACTIVITIES SHOULD GENERALLY PROGRESS DOWNWARD FROM THE CEILING AND OUTWARD FROM THE ROOM'S AIR HANDLERS.

3.2 HIGH LEVEL CLEANING PROCEDURES

A. ALL CABLE TRAYS, LADDER RACKS, UNISTRUT, BEAMS, ETC. TO BE BLOWN THROUGH WITH COMPRESSED AIR AND WIPED DOWN WITH APPROPRIATE CLOTHS AND CHEMICALS.

3.3 LOW LEVEL CLEANING PROCEDURES

A. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL RACEWAYS AND CABLE TRAYS THAT ARE SECURED BELOW THE ROOM'S DECK OR CEILING.

B. MAKE NOTE OF ANY UNUSUAL CONDITIONS--LOOSE BRACKETS, DAMAGED CABLE BUNDLES, CONDENSATION, AND SO ON--AND INCLUDE THEM IN THE FINAL REPORT TO BE PROVIDED TO THE CM AND OWNER.

3.4 CLEANING OF TECHNOLOGY CABINETS/RACKS

A. WIPE DOWN THE EXTERNAL SURFACES OF ALL CABINETS USING LINT-FREE CLOTHS TREATED WITH ANTISTATIC CHEMICAL. AVOID DISTURBING PATCH CORDS OR POWER CABLES, TOUCHING KEYBOARDS, MOVING HARDWARE, OR SPRAYING CHEMICALS DIRECTLY ONTO EQUIPMENT.

B. USE CANNED AIR TO DISLODGE DUST IN AREAS THAT CANNOT BE REACHED BY HAND.

3.5 FLOOR SURFACE CLEANING PROCEDURES

A. WHEN CLEANING THE RAISED FLOOR, AVOID DISTURBING ANY CABLES THAT ARE ROUTED THROUGH THE NOTCHED OPENING OF FLOOR TILES.

B. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL ACCESSIBLE PORTIONS OF THE FLOOR, INCLUDING BLANK, NOTCHED, AND PERFORATED FLOOR TILES.

C. TREAT SMUDGES, STAINS, BLACK MARKS, AND SO ON, WITH AN APPROVED SOLUTION AND SCRUB WITH A MEDIUM-GRADE SCRUB PAD. USE AN APPROVED FLOOR MACHINE TO CLEAN ALL ACCESSIBLE PORTIONS OF THE FLOOR.

D. LAST, MOP THE FLOOR WITH A DAMP--NOT WET--MOP USING CLEAN, WARM WATER. USE A TWO-BUCKET SYSTEM, ONE FOR MOPPING AND ONE FOR RINSING. CHANGE WATER FREQUENTLY IN BOTH BUCKETS.

END OF SECTION

3 SECTION 27 05 03 TECHNOLOGY SPACE CLEANING

SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. JPMC'S REAL ESTATE GROUP IS RESPONSIBLE FOR PROPER INSTALLATION OF A GROUNDING (EARTHING) BACKBONE THAT HAS BEEN DESIGNED AND INSTALLED IN ACCORDANCE WITH J-STD-607 OR EQUIVALENT REGIONAL STANDARD. IF SUCH GROUNDING (EARTHING) BACKBONE DOES NOT APPEAR TO BE IN PLACE, CONTRACTOR SHALL INFORM OPR, WHO WILL TAKE ACTION AS APPROPRIATE.

B. ALL BONDING AND GROUNDING (EARTHING) SHALL TRACK METHODS AND PROCEDURES DESCRIBED IN J-STD-607 OR EQUIVALENT REGIONAL STANDARD.

PART 2 - PRODUCTS

2.1 MATERIALS

A. COMPONENTS: SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.

B. ALL GROUNDING/BONDING CONDUCTORS SHALL BE COPPER (NO ALUMINUM ALLOWED).

PART 3 - EXECUTION

3.1 SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR CONTRACTOR REQUIREMENTS.

END OF SECTION

4 SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

SECTION 27 05 53 - IDENTIFICATION FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. SYSTEM ACCEPTANCE SHALL BE WITHHELD UNTIL OPR HAS REVIEWED AND APPROVED ALL LABELING AS DEFINED ELSEWHERE IN THIS SECTION.

B. IN CASES WHERE 100 PERCENT OF THE CABLING INFRASTRUCTURE IS NEW, ALL LABELING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION 27 05 53. IN CASES WHERE NEW INFRASTRUCTURE IS BEING ADDED TO AN EXISTING (LEGACY) INFRASTRUCTURE THAT FOLLOWS AN EARLIER VERSION JPMC CABLING STANDARD, CONTRACTOR SHALL FURNISH TO OPR A DETAILED DESCRIPTION OF DEVIATIONS FROM THE PREVAILING RETAIL STRUCTURED CABLING STANDARD, AND UPON OPR WRITTEN APPROVAL, FOLLOW INSTEAD THE LEGACY LABELING STANDARD.

C. BECAUSE THE CABLE INFRASTRUCTURE IS A COMPREHENSIVE, INTEGRATED DESIGN, PROPER AND COMPREHENSIVE LABELING IS CRITICAL. TO ENSURE THE SUCCESS OF THIS COMPONENT OF THE SYSTEM DESIGN, ALL LABELS SHALL BE FULLY COMPLIANT WITH THE REQUIREMENTS SET FORTH IN THIS SECTION. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL LABELS AND LABEL HOLDERS AS SPECIFIED HEREIN.

D. ALL LABELS SHALL BE INSTALLED IN ACCORDANCE WITH INFORMATION CONTAINED IN PROJECT DRAWINGS AND AS SPECIFIED IN THIS SECTION.

E. THIS SPECIFICATION SETS FORTH GENERAL REQUIREMENTS FOR INFRASTRUCTURE IDENTIFICATION, NOT SPECIFIC NUMBERING SCHEMES. BEFORE THE LABELING PROCESS BEGINS, CONTRACTOR SHALL SUBMIT A WRITTEN PLAN THAT INCLUDES SPECIFIC NUMBERING SEQUENCES FOR EACH TELECOMMUNICATIONS ELEMENT, AND SHALL NOT PROCEED WITH THE PLAN UNTIL OPR FURNISHES WRITTEN APPROVAL OF SAID PLAN WHICH MAY CONTAIN STANDARDS-BASED MODIFICATIONS.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. ALL LABELS SHALL BE INDELIBLE, PRE-PRINTED (NOT HAND-WRITTEN), AND PERMANENT, USING BRADY PRINTER OR EQUIVALENT, ARIAL FONT OR EQUIVALENT. THE TEXT COLOR SHALL BE BLACK WITH A WHITE BACKGROUND, UNLESS AFFIXED ON A BLACK SURFACE, IN WHICH CASE THE LABEL BACKGROUND SHALL BE BLACK AND TEXT SHALL BE WHITE.

PART 3 - EXECUTION

3.1 SYSTEM DESCRIPTION

A. THE FOLLOWING INFRASTRUCTURE COMPONENTS SHALL BE INCLUDED AND FULLY LABELED IN THE IDENTIFICATION SCHEMA:
   1. INFORMATION OUTLET FACEPLATES
   2. HORIZONTAL CABLING
   3. COPPER PATCH PANELS
   4. BACKBONE CABLING
   5. FIBER PATCH PANELS
   6. RACKS
   7. POWER DISTRIBUTION UNITS AND POWER STRIPS
   8. IT EQUIPMENT ASSET TAGS
   9. CONDUIT AND SLEEVE PATHWAYS

3.2 INFORMATION OUTLET FACEPLATES

A. EACH INFORMATION OUTLET IDENTIFIER SHALL BE NUMBERED IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL, USING PAPER LABELS AND CLEAR WINDOWS INCLUDED WITH EACH APPROPRIATE INFORMATION OUTLET FACEPLATE. WHERE CLEAR WINDOWS ARE NOT APPLICABLE, CONTRACTOR SHALL COORDINATE A COMPLIANT LABEL THAT IS RESISTANT TO DAMAGE OR DEGRADATION OVER TIME (E.G. VINYL). TEXT HEIGHT AND POSITIONING SHALL BE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

B. VOICE AND DATA OUTLETS SHALL BE LOCATED IN EACH FACEPLATE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

3.3 HORIZONTAL CABLING

A. LABELS TO BE AFFIXED AT EVERY USED PATCH PANEL AND ON EACH HORIZONTAL CABLE ON BOTH ENDS.
   1. NOMENCLATURE: X#Y##
      a. WHERE X = RMER/RTR DESIGNATION, USE "M" FOR RMER AND "T" FOR RTR.
      b. WHERE # = RACK DESIGNATION (NUMERIC).
      c. WHERE Y = A SINGLE SEQUENTIAL ALPHA CHARACTER, BEGINNING WITH "A", IDENTIFYING THE PATCH PANEL.
      d. WHERE ## = TWO-DIGIT SEQUENTIAL NUMBER BEGINNING WITH "01", IDENTIFYING PATCH PANEL PORT NUMBER.

B. COPPER PATCH PANEL PORT IDENTIFICATION SHALL BE FULLY COMPLIANT WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

C. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.

D. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

E. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.

3.4 BACKBONE CABLING

A. THE CABLE SHALL BE LABELED ON BOTH ENDS.

B. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = X-Y-ZZ-##/##-TTT
   1. WHERE X = RMER OR RTR DESIGNATION.
   2. WHERE # = RACK DESIGNATION.
   3. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
   4. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER.
   5. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

C. WHERE ROUTE DIVERSITY IS EMPLOYED DESIGNATION STRIPS LOCATED ON TERMINATION PANELS FOR EACH ROUTE SHALL BE OF DISTINCTLY DIFFERENT COLORS.

3.5 FIBER PATCH PANELS

A. THE PATCH PANEL SHALL BE LABELED ON THE FRONT DOOR.
   1. NOMENCLATURE: ZZ
      a. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM THE UPPER LEFT CORNER WHERE THE PANEL IS INSTALLED.
      b. WITHIN THE PATCH PANEL (BEHIND THE FRONT DOOR).
      c. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = ZZ-##/##-TTT
      d. WHERE X = RMER DESIGNATION, WHICH IS "M".
      e. WHERE # = RACK DESIGNATION.
      f. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
      g. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER.
      h. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

3.6 RACKS

A. LABELS TO BE AFFIXED TO TOP FRONT AND TOP REAR OF RACK
   1. NOMENCLATURE: X#
      a. WHERE X = RMER/RTR DESIGNATION, USE "M" FOR RMER AND "T" FOR RTR.
      b. WHERE # = RACK DESIGNATION (NUMERIC)
      c. TYPE: 1.5 IN. (38 MM) TEXT; MACHINE PRINTED TEXT. BLACK TEXT ON WHITE BACKGROUND.

3.7 POWER DISTRIBUTION UNITS AND POWER STRIPS

A. POWER DISTRIBUTION UNITS AND STRIPS SHALL BE LABELED WITH THE BREAKER PANEL ID AND CIRCUIT NUMBER IT IS SERVED FROM.

3.8 IT EQUIPMENT ASSET TAGS

A. ALL POWERED IT EQUIPMENT, ASIDE FROM AUDIO-VISUAL OR CARRIER EQUIPMENT MUST BE LABELED WITH THE DEVICES HOSTNAME AND A YELLOW ASSET TAG ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. A MACHINE GENERATED LABEL INDICATING THE SERIAL NUMBER OF THE DEVICE SHALL ALSO BE PLACED ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. ALL RACKS MUST HAVE A YELLOW ASSET TAG AT THE TOP FRONT IN A VISIBLE AREA THAT CAN BE EASILY ACCESSED WITH A BARCODE SCANNER.

B. THESE ASSET TAGS WILL BE PROVIDED BY SOMEONE OTHER THAN THE STRUCTURED CABLING CONTRACTOR.

3.9 CONDUIT AND SLEEVE PATHWAYS

A. CONDUIT PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
   1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE CONDUIT ITSELF NEAR THE END.
   2. NOMENCLATURE <SIZE>.<PATH A/B>TO<DISTANT END ROOM ID>. EXAMPLE: 4" A TO I-1

B. SLEEVE PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
   1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE SLEEVE ITSELF NEAR BOTH ENDS.
   2. NOMENCLATURE <SIZE>.<PATHWAY TYPE>. EXAMPLE: 4" SLEEVE

END OF SECTION

5 SECTION 27 05 53 IDENTIFICATION FOR STRUCTURED CABLING

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64063

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SECTION 27 05 28 - PATHWAYS FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SECTION SPECIFIES TECHNOLOGY INFRASTRUCTURE EQUIPMENT INCLUDING THE FOLLOWING:

1. J-HOOKS.
2. CONDUITS AND BOXES.
3. INNERDUCT
4. PULL BOXES.
5. FIRE-RATED SLEEVES.
6. MISC. ACCESSORIES.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. NEW MATERIALS

1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.

B. EQUIVALENTS

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.

C. SUBSTITUTIONS

1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA RFIS, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE. MATERIALS MUST BE COMPATIBLE WITH THE END-TO-END SOLUTION BEING PROPOSED.

D. FIRE RATING

1. INNERDUCT SHALL BE RATED FOR THE PURPOSE. INNERDUCT LISTED IN THIS SECTION IS NOT PLENUM RATED. CONTRACTOR SHALL EXERCISE DILIGENCE IN ENSURING THAT THE INNERDUCT INSTALLED MEETS THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. LOCAL OR NATIONAL CODES MAY OR MAY NOT REQUIRE PLENUM OR LOW SMOKE ZERO HALOGEN IN SOME APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL MATERIALS THAT ARE APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS INNERDUCT OR SOFT DUCT THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. PLENUM-RATED IN SPACES THAT DO NOT REQUIRE PLENUM, OR NON-PLENUM-RATED IN SPACES THAT REQUIRE PLENUM), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE INNERDUCT OR SOFT DUCT AND INSTALL APPROPRIATE INNERDUCT OR SOFT DUCT AT THEIR SOLE EXPENSE.

2.2 J-HOOKS

A. REQUIREMENTS:

1. ABOVE ALL ACCESSIBLE CEILINGS, J-HOOKS ARE REQUIRED FOR PROPER CABLE SUPPORT.
2. J-HOOKS SHALL BE SPECIFICALLY DESIGNED FOR INTERIOR USE WITH DATA CABLES.
3. J-HOOKS SHALL BE PROVIDED AS REQUIRED WITH ALL THE MANUFACTURER'S RECOMMENDED INSTALLATION HARDWARE FOR THE INSTALLATION APPLICATION.
4. APPROVED J-HOOK MANUFACTURERS ARE COOPER, CADDY, OR PANDUIT.

B. SEE THE OPEN CABLE SUPPORT DETAIL ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR J-HOOK MOUNTING COMPONENTS.

2.3 CONDUITS AND BOXES

A. CONDUIT

1. ALL WIRING IN THE BUILDING INTERIOR, INCLUDING HORIZONTAL DISTRIBUTION, VERTICAL RISER CONDUITS AND AUXILIARY WIRING MAY BE RUN IN EMT CONDUIT UNLESS OTHERWISE SPECIFIED. CONDUIT SIZES LARGER THAN 4" SHALL BE RIGID METALLIC CONDUIT.
2. EMT SHALL NOT BE USED IN POURED CONCRETE, UNDERGROUND, IN UTILITY TUNNELS OR EXPOSED IN MECHANICAL EQUIPMENT ROOM BELOW 48".
3. ALL EMT CONNECTORS AND COUPLINGS SHALL BE OF THE SETSCREW TYPE. ALL FITTINGS SHALL BE STEEL. NO DIE CAST FITTINGS WILL BE ALLOWED.

B. BOXES

1. THE OUTLET BACKBOXES SHALL BE 5" SQUARE BY 2.875" DEEP WITH A SINGLE GANG REDUCER AND INTEGRAL CABLE MANAGEMENT. THE DEPTH OF THE RAISED SINGLE GANG REDUCER SHALL BE DETERMINED BY THE THICKNESS OF THE WALL MATERIAL THAT THE OUTLET BOX WILL BE INSTALLED WITHIN. THE CONTRACTOR SHALL COORDINATE THIS DIMENSION WITH THE GENERAL CONTRACTOR.
2. SEE THE SYMBOLS LIST ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.

2.4 INNERDUCT

A. INNERDUCT IS A NONMETALLIC RACEWAY PLACED WITHIN A LARGER RACEWAY. FOR THE PURPOSES OF THIS SECTION, FOR THIS PROJECT, FABRIC INNERDUCT SHALL BE USED. HARD SIDED INNERDUCT SHALL NOT BE USED UNLESS PERMISSION IS EXPLICITLY PROVIDED BY THE STRUCTURED CABLING ENGINEER. IF MULTIPLE CABLES ARE TO BE PULLED THROUGH A SINGLE INNERDUCT CELL, THEY SHOULD BE PULLED AT THE SAME TIME. FABRIC INNERDUCT PROVIDES MULTIPLE SLEEVES WITHIN CONDUITS AND EMPTY CELLS SHOULD BE PROVIDED FOR FUTURE GROWTH.

1. FABRIC INNERDUCT SHALL BE INSTALLED WITHIN CONDUIT.
2. CONTRACTOR SHOULD COORDINATE A SITE VISIT FROM THE FABRIC INNERDUCT MANUFACTURER TO OVERSEE THE INSTALLATION WHEN 1) THE CONTRACTOR HAS NEVER UTILIZED THIS PRODUCT IN THE PAST; OR 2) WHEN THE AGGREGATE LENGTH OF THE INSTALLATION EXCEEDS 1,500 M (5,000 FT.).

B. FABRIC INNERDUCT SIZING

1. THE FABRIC INNERDUCT SHALL BE SIZED FOR THE CONDUIT IT IS BEING INSTALLED WITHIN.

C. FABRIC INNERDUCT

1. STANDARD OUTDOOR FABRIC INNERDUCT: MICRO (33MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE.
2. DETECTABLE OUTDOOR FABRIC INNERDUCT: MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE, AND A SOLID COPPER, POLYVINYL COLOR COATED CONDUCTOR (19AWG MINIMUM) FOR TRACING AND RATED FOR A MINIMUM OF 6 AMPS AND 600 VOLTS. CONDUCTOR SHALL BE PLACED IN THE SIDEWALL EDGE FOLD OF THE TEXTILE SLEEVE. DETECTABLE FABRIC INNERDUCT SHALL BE UTILIZED WHEN RUNNING FIBER OPTIC CABLING WITHIN NON-METALLIC UNDERGROUND CONDUITS.
3. INDOOR FABRIC INNERDUCT (RISER-LISTED): MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR GENERAL APPLICATIONS.
4. PLENUM-LISTED FABRIC INNERDUCT: MICRO (32MM), 2-INCH AND 3-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 200LB NYLON-RESIN FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR USE IN AIR HANDLING SPACES.

D. FABRIC INNERDUCT FITTINGS

1. CONDUIT PLUGS: COMPRESSION-TYPE CONDUIT PLUGS WITH LOCKING NUTS FOR SEALING AND SECURING ONE OR MORE FABRIC INNERDUCTS WITHIN A 4-INCH INSIDE DIAMETER CONDUIT, E.G.:
   a. 4-INCH PLUG WITH NINE HOLES FOR CABLES IN A 3 PACK (9-CELL) CONFIGURATION
2. TERMINATION BAGS: INFLATION-TYPE BAGS FOR SEALING AND SECURING AROUND ONE OR MORE FABRIC INNERDUCTS AND CABLES WITHIN 2-INCH OUTSIDE DIAMETER OR LARGER CONDUIT.

2.5 PULL BOXES

A. PULL BOXES SHALL BE MANUFACTURED FOR USE AS A JUNCTION BOX AND PULL BOX IN COMMERCIAL AND GENERAL INDUSTRIAL APPLICATIONS.

B. COVERS SHALL BE SECURED TO THE ENCLOSURE BODY WITH PLATED SCREWS THROUGH KEYHOLE SLOTS PROVIDED IN THE COVER.

C. FINISH SHALL BE A PHOSPHATE UNDERCOAT WITH ANSI 61 GRAY ACRYLIC FINISH.

D. PULL BOXES SHALL COMPLY WITH NEMA STANDARDS TYPE 1.

E. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

2.6 FIRE-RATED SLEEVES

A. CABLES PASSING THROUGH RMER/RTR FLOORS OR WALLS SHALL PASS THROUGH FIRE-RATED WIRING DEVICES WHICH CONTAIN AN INTUMESCENT INSERT MATERIAL THAT ADJUSTS AUTOMATICALLY TO CABLE ADDITIONS OR SUBTRACTIONS.

B. THE DEVICE (PER CODE REQUIREMENTS) SHALL INCLUDE BOTH INTERNAL AND EXTERNAL FIRESTOPPING.

C. CABLES PENETRATING THROUGH RMER/RTR FLOORS OR WALLS SHALL UTILIZE FIRE-RATED PATHWAY DEVICES CAPABLE OF PROVIDING AN F RATING EQUAL TO THE RATING OF THE BARRIER IN WHICH THE DEVICE IS INSTALLED.

D. THE DEVICE SHALL BE TESTED FOR SMOKE LEAKAGE (L RATING) AND SHALL NOT REQUIRE THE USE OF ANY OPTIONAL SEALING MATERIALS TO ACHIEVE THE PUBLISHED RATING.

E. THE DEVICE SHALL UTILIZE A FIRE AND SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE ADDITION OR REMOVAL OF CABLES.

F. WIRE DEVICES SHALL BE OF A SUFFICIENT SIZE TO ACCOMMODATE THE QUANTITY AND SIZE OF DATA CABLES REQUIRED AND SHALL BE SUITABLE FOR USE WITH NEW OR EXISTING CABLE INSTALLATIONS.

G. THE INSTALLED DEVICE (IN NORMAL USE) SHALL REQUIRE NO MAINTENANCE AND SHALL ACCOMMODATE FUTURE CABLE CHANGES WITHOUT MECHANICAL ADJUSTMENT AND/OR REMOVAL OR REPLACEMENT OF PROTECTIVE MATERIALS.

H. WIRE DEVICES TO BE PROVIDED WITH STEEL WALL PLATES ALLOWING FOR SINGLE OR MULTIPLE DEVICES TO BE GANGED TOGETHER.

I. THE DEVICE SHALL BE MODULAR AND SHALL PROVIDE MECHANICAL INSTALLATION OPTIONS FOR COMMON WALL AND FLOOR CONSTRUCTIONS AS WELL AS COMMON CONSTRUCTION CONDITIONS INCLUDING OVER-SIZED OR DAMAGED OPENINGS OR EXISTING SLEEVES.

J. INSTALL RADIUS CONTROL MODULES (RCM) ON ALL HORIZONTAL DEVICES. THE RCM'S PROVIDE A 1" MINIMUM BENDING RADIUS FOR CABLES.

K. COMPONENTS

WALL OR FLOOR SLEEVES: SPECIFIED TECHNOLOGIES INC. EZ-PATH SERIES

CABLE RADIUS CONTROL WATERFALLS: SPECIFIED TECHNOLOGIES INC. RCM SERIES

2.7 MISCELLANEOUS ACCESSORIES

A. PULL STRING

1. PULL STRINGS: CONSTRUCTED OF SYNTHETIC FIBER.

B. PULL TAPE

1. PULL TAPE: MEASURING AND PULLING TAPE CONSTRUCTED OF SYNTHETIC FIBER, PRINTED WITH ACCURATE SEQUENTIAL FOOTAGE MARKS. COLOR-CODED.

C. PENETRATION SEALING MATERIALS

1. DUCT WATER SEAL: PRODUCTS SUITABLE FOR CLOSING UNDERGROUND AND ENTRANCE CONDUIT OPENINGS WHERE INNERDUCT OR CABLE IS INSTALLED, TO PREVENT ENTRY OF GASES, LIQUIDS, OR RODENTS INTO THE STRUCTURE.

PART 3 - EXECUTION

3.1 HANGERS AND SUPPORTS

A. J-HOOKS SHALL BE INSTALLED WITHIN (1) ONE FOOT OF THE BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND WITHIN (1) ONE FOOT OF ANY BEND GREATER THAN 60 DEGREES.

B. J-HOOKS SHALL BE INSTALLED WITH A MAXIMUM CENTER TO CENTER DISTANCE OF (4) FOUR FEET.

C. ALL J-HOOKS SHALL BE ATTACHED SECURELY TO THE CEILING JOISTS OR CONCRETE DECK ABOVE UTILIZING THE MANUFACTURER'S RECOMMENDED HARDWARE AND INSTALLATION PRACTICES. CONTRACTOR SHALL UTILIZE UNISTRUT AND THREADED ROD ASSEMBLIES TO MAINTAIN THE (4) FOUR-FOOT CENTER TO CENTER REQUIREMENT BETWEEN CEILING JOIST MEMBERS AS REQUIRED.

3.2 CONDUIT AND BOXES

A. ALL CONDUITS ENTERING CABINETS, PULL BOXES, JUNCTION BOXES OR OUTLET BOXES SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

B. THE ENDS OF ALL CONDUITS UTILIZED FOR COMMUNICATIONS CABLING SHALL BE PROVIDED WITH NYLON PUSH-ON BUSHINGS AND A PULL STRING PROVIDED THROUGHOUT.

C. EXTERIOR CONDUITS FOR TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS) SHALL HAVE A PULL TAPE INSTALLED BY THE ELECTRICAL CONTRACTOR.

D. ALL EXTERIOR CONDUITS SHALL BE SEALED AT THE OPENING WITHIN THE BUILDING BY THE ELECTRICAL CONTRACTOR.

E. ALL CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO (2) 90-DEGREE BENDS PER CONDUIT RUN. WHEN MORE BENDS ARE NECESSARY IN A SINGLE RUN A PULL BOX SHALL BE INSTALLED. PULL BOXES SHALL NOT BE INSTALLED IN PLACE OF A 90-DEGREE BEND. PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'.

F. ALL CONDUITS, EXCEPT IN CONCRETE SLAB OR EARTH, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE COLUMN LINES OF THE BUILDING.

G. CONDUITS THAT ARE NOT INSTALLED PLUMB AND ROUTED PERPENDICULAR TO THE STRUCTURAL COLUMN SUPPORTS OF THE BUILDING WILL NOT BE ACCEPTED.

H. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS.

I. ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED BY USE OF PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE A RIGID INSTALLATION. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READILY REMOVAL OF OTHER PIPE FOR REPAIRS.

J. UNLESS OTHERWISE NOTED, INSTALL ALL OUTLET BOXES VERTICALLY.

K. INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS INDICATED ON THE PLANS. COMMUNICATION OUTLET BOXES ADJACENT TO ELECTRIC OUTLETS SHALL BE INSTALLED AT THE SAME MOUNTING HEIGHT. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

3.3 PULL BOXES

A. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS.

B. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

C. ALL CONDUITS ENTERING THE PULL BOX SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

D. PULL BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT PROVIDES EASY ACCESS INTO THE INSTALLED ENCLOSURE THROUGH THE REMOVABLE COVER.

E. UNDER NO CIRCUMSTANCE SHALL A PULL BOX BE INSTALLED WITH THE COVER FACING UP. UNLESS CONDUITS ENTERING THE BOX MUST BE STACKED VERTICALLY, ALL PULL BOXES SHALL BE INSTALLED WITH THE COVER FACING DOWN.

F. PULL BOX LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE BETWEEN THE PULL BOX COVER AND ANY OTHER OBJECT. THE MINIMUM CLEARANCE REQUIRED SHALL BE SIX TIMES THE DIAMETER OF THE LARGEST CONDUIT ENTERING THE PULL BOX.

END OF SECTION

SECTION 27 05 28
PATHWAYS FOR STRUCTURED CABLING

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SECTION 27 11 00 - EQUIPMENT ROOM FITTINGS FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SECTION INCLUDES RMER/RTR EQUIPMENT RACKS, CABLE MANAGERS, LADDER RACKS, POWER DISTRIBUTION UNITS, PLYWOOD BACKBOARDS, AND ASSOCIATED COMPONENTS.

B. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 REQUIREMENTS

A. IN LOCATIONS THAT REQUIRE SEISMIC BRACING, CONSULT WITH THE OPR FOR GUIDANCE AND PRODUCT REQUIREMENTS.

B. AS PART OF THEIR BASE QUOTATION, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MISCELLANEOUS HARDWARE (E.G. CAGE NUTS, SCREWS), REQUIRED TO ACCOMPLISH A COMPLETE WORKING INSTALLATION.

C. WHERE ONE EQUIPMENT RACK IS INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH SIDES OF THE EQUIPMENT RACK.

D. WHERE TWO EQUIPMENT RACKS ARE INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH ENDS OF THE ROW, AND ONE 10" VERTICAL CABLE MANAGER BETWEEN RACKS.

E. WHERE A WALL MOUNTED EQUIPMENT CABINET IS INSTALLED, PROVIDE INTERNAL VERTICAL CABLE MANAGERS.

2.2 MATERIALS

A. SEE THE RACK ELEVATIONS AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:

1. EQUIPMENT RACK AND ASSOCIATED COMPONENTS
2. CABLE MANAGEMENT - RACK MOUNTED
3. LADDER RACK AND ASSOCIATED COMPONENTS
4. POWER DISTRIBUTION UNITS (PDUS) FOR RMERS AND RTRS
5. POWER DISTRIBUTION UNITS (PDUS) FOR STAND ALONE ATM LOCATIONS
6. EQUIPMENT CABINET AND ASSOCIATED COMPONENTS
7. CABLE MANAGEMENT - CABINET MOUNTED
8. POWER STRIPS FOR WALL MOUNTED CABINETS

B. PLYWOOD BACKBOARDS

1. PROVIDE VOID-FREE, FIRE-RATED PLYWOOD MOUNTED VERTICALLY ON THE WALL. PLYWOOD BOARDS SHALL BE ¾" THICK, 8' TALL, AND WIDTH AS SHOWN ON THE PLANS TO FIT THE ROOM.
2. EITHER FIRE RATED (WITH A UL FR-S CLASSIFICATION), OR IF NON-FIRE-RATED - AND IF ACCEPTABLE TO THE AHJ - COVERED WITH TWO COATS OF FIRE-RETARDANT PAINT ON BOTH SIDES AND EDGES. FOR FIRE-RATED PLYWOOD THE CLASSIFICATION STAMP MUST NOT BE OBSCURED.

PART 3 - EXECUTION

3.1 INSTALLATION

A. ALL RELAY RACKS, LADDER RACK, AND CABLE TRAY SHALL BE BONDED TO GROUND IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS, AND PREVAILING CODES AND STANDARDS. SEE SECTION 27 05 26 FOR FURTHER GROUNDING AND BONDING INFORMATION.

B. RELAY RACKS SHALL BE ASSEMBLED AND MOUNTED IN LOCATIONS SHOWN IN THE DRAWINGS AND AS DESCRIBED HEREIN. EACH RACK SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EACH RACK SHALL BE MOUNTED SUCH THAT THE SIDE RAILS ARE PLUMB. BOLTS SHALL BE TIGHTENED TO THE EXTENT THAT IT HOLDS THE MOUNTING HARDWARE FIRMLY, BUT NOT SO TIGHT AS TO DISTORT THE HARDWARE OR STRIP THE THREADS. EQUIPMENT RACKS ARE TO BE CO-LOCATED WITH POWER OUTLETS TO ALLOW FOR EASY CONNECTION OF RACK-MOUNTED EQUIPMENT TO THE POWER SYSTEM. RACKS AND CABLE MANAGEMENT HARDWARE SHALL BE SECURELY BOLTED TOGETHER.

C. THE RACK SHOULD BE ATTACHED TO RMER/RTR FLOORS WITH ⅜ IN. LAG SCREWS OR EQUIVALENT HARDWARE. THE FLOOR UNDER THE RACK SHOULD BE LEVEL WITHIN 3/16 IN. USE A FLOOR-LEVELING CEMENT COMPOUND IF NECESSARY.

D. CABLE TRAYS MUST BE INSTALLED IN A MANNER THAT ALLOWS AT LEAST 305 MM (12 IN) OF CLEARANCE ABOVE THE TOP OF THE TRAY.

E. CABLE TRAYS MUST BE INSTALLED A MINIMUM OF 101.6 MM - 152.4 MM (4 IN - 6 IN) ABOVE CABINETS AND RACKS, WITH 304.8 MM (12 IN) BEING PREFERRED..

F. METALLIC CABLE TRAY MUST BE COMPLIANT WITH THE NEMA VE-1 STANDARD. INSTALLATION SHOULD FOLLOW THE GUIDELINES AND RECOMMENDATIONS - AS APPLICABLE - IN THE NEMA VE-2 STANDARD.

G. ALL METALLIC LADDER RACKS MUST BE BONDED TO GROUND PER NEC REQUIREMENTS. WHEN SECTIONS ARE NOT MECHANICALLY CONTINUOUS, BONDING CONDUCTORS MUST BE INSTALLED ACROSS THE SECTIONS. THIS INCLUDES LADDER RACK WHOSE SECTION CONNECTING HARDWARE IS NOT APPROVED AS A MEANS FOR PROVIDING GROUND CONTINUITY.

H. A MINIMUM OF 915 MM (3 FT) OF CLEARANCE IN FRONT AND IN BACK OF RACKS. MORE CLEARANCE MUST BE PROVIDED WHEN DEEMED PRUDENT OR NECESSARY FOR USE, INSTALLATION, AND REMOVAL OF EQUIPMENT, OR TO MEET THERMAL REQUIREMENTS.

I. A MINIMUM OF 1219 MM (3 FT) OF CLEARANCE AT THE END OF A ROW OF RACKS OR CABINETS.

J. A MINIMUM OF 305 MM (1 FT) ADDITIONAL CLEARANCE FROM A CARRIER (SERVICE PROVIDER) WALL FIELD BEYOND THE MINIMUMS SPECIFIED FOR RACKS AND CABINETS.

K. AT LEAST 610 MM (2 FEET) OF CLEARANCE ABOVE RACKS AND CABINETS, WITH CABLE SUPPORT SYSTEMS BEING THE ONLY ALLOWABLE EXCEPTION.

END OF SECTION

SECTION 27 11 00 - EQUIPMENT ROOM FITTINGS FOR STRUCTURED CABLING

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GLOBAL TECHNOLOGY INFRASTRUCTURE
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WORKPLACE TECHNOLOGY SERVICES
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checked	CC	scale	AS NOTED		

title: TELECOM BOOK SPECS

job no. OVP-38200P368999

sheet: TC-003

SECTION 27 13 00 - STRUCTURED CABLING - BACKBONE CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SECTION INCLUDES INSIDE PLANT MULTIMODE FIBER, OUTSIDE PLANT MULTIMODE FIBER, SINGLE MODE FIBER FOR CARRIER CIRCUIT EXTENSION, AND CATEGORY 6 CABLES FOR CARRIER CIRCUIT EXTENSION.

B. ALL RETAIL STANDARDS REGARDING IDENTIFICATION APPLY TO THIS SECTION. SEE 27 05 53 OF THIS STANDARD FOR ADDITIONAL DETAIL.

C. THE NATIONAL ELECTRIC CODE DEFINES DISTANCE LIMITATIONS FOR OSP CABLE RUNS WITHIN BUILDINGS NOT IN CONDUIT, AT 50 FT. MAXIMUM. ALL SUCH REQUIREMENTS SHALL BE COMPLIED WITH AT ALL JPMC FACILITIES.

D. EXTENDED NETWORK CABLES ARE TYPICALLY COMPRISED OF SIX 4-PAIR CATEGORY 6 CABLES, OR VIA 12-STRAND SINGLE-MODE FIBER IF THE SERVICE IS SWITCHED ETHERNET.

E. EXCEPT FOR THE PURPOSES OF EXTENDING T.1, SWITCHED ETHERNET, OR ANALOG SERVICES, IN NO CASE SHALL CATEGORY 6 CABLE RUNS EXCEED 90M (295 FT) IN LENGTH. IN CASES WHERE T.1 SERVICE IS EXTENDED OVER CATEGORY 6 CABLES, THE CABLE DISTANCE SHALL NOT EXCEED 677 FT.

F. SWITCHED ETHERNET SERVICE IS EXTENDED OVER SINGLE-MODE FIBER BY THE CARRIER TO THE JPMC RMER. PRIMARY SERVICE (CIRCUIT) SHALL BE ROUTED UNDERGROUND IN TWO 2" SCHEDULE 80 PVC CONDUITS. ONCE THE CONDUIT ENTERS THE BUILDING, IF OVER 50 FEET FROM THE ENTRANCE AND WITHIN JPMC CONTROLLED SPACE TRANSITION TO EMT CONDUIT. TERMINATE CONDUIT IN THE RMER. SECONDARY SERVICE (CIRCUIT) IS CELLULAR. PROVIDE EMT CONDUIT FROM THE CELLULAR DONOR ANTENNA LOCATION TO THE RMER, IF THE ANTENNA LOCATION IS ON THE ROOF OR OUTSIDE. IF CONDUITS ARE RUN INSIDE THE BUILDING BUT OUTSIDE OF JPMC CONTROLLED SPACE, TRANSITION IS REQUIRED TO RMC THROUGH NON-JPMC SPACE.

G. EXTENDED NETWORK CABLES ARE USED TO EXTEND ANALOG DIAL TONE SERVICE AND/OR HIGH-SPEED DATA (E.G. T-1, SWE) SERVICE FROM THE ILEC'S PRESENCE IN THE BUILDING TO THE JPMC RMER.

H. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 GENERAL FIBER CABLING REQUIREMENTS

A. CABLE RATING
1. LOCAL OR NATIONAL CODES MAY REQUIRE SPECIFIC CABLE GRADING IN SPECIFIC APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL CABLE THAT IS APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS CABLE THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. RISER-RATED CABLE IN SPACES THAT REQUIRE PLENUM CABLE), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE CABLE AND INSTALL APPROPRIATE CABLE AT THEIR SOLE EXPENSE.

B. TERMINATION TYPE
1. ONLY FACTORY TERMINATED FIBER PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. FIBER PATCH CORDS CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER IS NOT PERMISSIBLE.
2. FIELD-TERMINATED CONNECTORS FOR THE FIBER BACKBONE IS THE PREFERRED TERMINATION METHOD. FUSION-SPLICED OR CORNING UNICAM TERMINATIONS ARE PERMITTED.
3. MULTIMODE & SINGLE MODE FIBER SHALL BE TERMINATED INTO LC CONNECTORS UNLESS NOTED OTHERWISE.

C. CABLE JACKETING
1. CABLE JACKETING MAY OR MAY NOT BE ARMORED, DEPENDING UPON THE ENVIRONMENT AND THE APPLICATION.
   a. NON-ARMORED CABLE SHALL BE USED WHEN THE FIBER WILL BE INSTALLED WITHIN CONDUIT OR FOR A POINT-TO-POINT CONNECTION WITHIN THE RMER.
   b. ARMORED CABLE SHALL BE USED WHEN THE FIBER IS NOT INSTALLED WITHIN CONDUIT.

D. CABLE GRADE
1. OM3 MULTIMODE BACKBONE FIBER SHALL BE USED FOR CABLE DISTANCES UP TO 300M (984FT.).
2. SINGLE MODE BACKBONE FIBER SHALL BE USED FOR DISTANCE GREATER THAN 300M (984FT.) OR FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.
3. SINGLE MODE & CATEGORY 6 SHALL BE USED FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.

2.2 MATERIALS

A. SEE THE CABLE SCHEDULE AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
1. SINGLE MODE FIBER MATERIALS (FOR EXTENSION OF CARRIER CIRCUIT)
2. FIBER TERMINATION PANELS.
3. MULTIMODE FIBER MATERIALS (FOR BACKBONE TO A RTR IF APPLICABLE)

PART 3 - EXECUTION

3.1 GENERAL CABLING INSTALLATION

A. SLEEVES SHALL NOT BE OVER-POPULATED WITH CABLES. SUFFICIENT SPARE CAPACITY SHALL BE ALLOWED IN EACH SLEEVE TO ACCOMMODATE APPROPRIATE FIRESTOPPING MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND THE UL FIRE RESISTANCE DIRECTORY. NOTE THAT MANUFACTURERS TYPICALLY SPECIFY A 20% TO 40% FILL FOR THEIR PRODUCTS.

B. MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII SHALL BE COMPLIED WITH AT ALL TIMES. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES SO AS TO ENSURE A PROFESSIONAL APPEARANCE, RUN STRAIGHT, LEVEL, AND ALIGNED WITH BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE, BEARING IN MIND MANUFACTURER'S RECOMMENDED BEND RADII.

C. CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE CABLE STRAIN RELIEF (E.G. CABLE DROPOUTS) TO ACCOMMODATE THE ANTICIPATED MAGNITUDE OF CABLING. WHEREVER FIBER AND COPPER CABLES ARE SEGREGATED, DEDICATED MULTIMODE STRAIN RELIEF SHALL BE PROVIDED, INCLUDING ADEQUATE PROVISION FOR CABLE ROUTE DIVERSITY WHERE APPLICABLE.

3.2 FIBER CABLING INSTALLATION

A. AFTER FIBER CABLE HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THIS STANDARD, ALL CONNECTOR DUST COVERS SHALL BE SECURELY RESTORED.

B. EMPTY ADAPTER PANEL PORTS SHALL BE EQUIPPED WITH BLANK PANELS.

C. ALL FIBER STRANDS ARE TERMINATED INTO LC PATCH PANELS AT BOTH ENDS UNLESS NOTED OTHERWISE.

D. IN SPACES WHERE ANY AIRBORNE DUST OR CONTAMINANTS MAY BE PRESENT, ESPECIALLY DURING CONSTRUCTION, CONTRACTOR SHALL FULLY AND PROPERLY PROTECT ANY AND ALL CONNECTORIZED CABLES TO AVOID TRANSMISSION PERFORMANCE DEGRADATION ASSOCIATED WITH DUST COMING IN CONTACT WITH CONNECTOR CONTACT POINTS. IF AT ALL POSSIBLE, AND WHERE ALLOWED BY THE PROJECT TIMELINE, CONTRACTOR'S FIRST CHOICE SHOULD BE TO AVOID THIS PROBLEM BY REFRAINING FROM INSTALLING ANY SUCH COMPONENTS UNTIL THE RISK OF AIRBORNE DUST AND CONTAMINANTS IS ELIMINATED (E.G. AFTER FLOORS AND CEILINGS ARE TREATED, AND WALLS RECEIVE THE FINAL COAT OF PAINT).

3.3 CARRIER CIRCUIT EXTENSION INSTALLATION

A. CARRIER CIRCUIT EXTENSION CABLES SHALL BE INSTALLED BY CONTRACTOR. THE CABLE TERMINATIONS MAY BE PERFORMED EITHER BY CONTRACTOR, OR BY THE ILEC, DEPENDING UPON THE CUSTOMARY PRACTICE IN THAT ILEC'S REGION. CONTRACTOR SHALL COORDINATE THIS PORTION OF THE PROJECT WITH OPR.

B. IF THE ROUTE FOR THE CARRIER CIRCUIT EXTENSION CABLES PASSES THROUGH SPACE THAT IS NOT CONTROLLED BY JPMC, IT IS VULNERABLE TO ACCIDENTAL OR INTENTIONAL SERVICE INTERRUPTION, AND SHOULD BE INSTALLED IN A PROPERLY-DESIGNED CONDUIT INFRASTRUCTURE. THE CONDUIT SIZING SHALL BE BASED ON A 40% FILL OF ALL CABLE TYPES BEING INSTALLED WITHIN THE CONDUIT.

C. IN THE RMER, THE CATEGORY 6 CABLE IS TYPICALLY TERMINATED INTO A SMART JACK OR NTE (CIENA AND BEASBOX) FURNISHED BY THE ILEC. IN THE UNLIKELY EVENT THAT THE SMART JACK IS NOT LOCATED IN THE RMER, CONTRACTOR SHALL COORDINATE CONNECTIVITY REQUIREMENTS WITH THE OPR.

D. CATEGORY 6 CABLES SHALL NOT BE KINKED OR UNDULY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER. TIE WRAPS SHALL NOT BE EMPLOYED FOR SECURING CATEGORY 6 CABLES.

DURING TERMINATION, UTP PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.

3.4 FIBER TESTING

A. TESTS SHALL BE CARRIED OUT AT 850NM AND 1300NM FOR MULTI-MODE TESTING AND 1310NM AND 1550NM FOR SINGLE-MODE TESTING IN ONE DIRECTION.

B. THE FIBER MANUFACTURER'S WARRANTY CONDITIONS SHALL BE USED TO PERFORM ALL FIBER TESTING. THESE STANDARDS ARE MORE STRINGENT THAN INTERNATIONAL AND NATIONAL STANDARDS. THE CONTRACTOR IS REQUIRED TO PERFORM CUSTOM TESTS USING THE TESTER AND IS THEREFORE TO ADJUST THE CONTACTOR LOSS VALUES IN THE TESTER SOFTWARE ACCORDINGLY.

C. SHOULD INSTALLED FIBERS BE REQUIRED TO BE CONNECTED DIRECTLY INTO A SWITCH IN A HARNESS LINK TOPOLOGY, ALL FIBERS WILL BE PATCHED PRIOR TO TESTING COMMENCING, THEN INDIVIDUALLY UN-PATCHED, TESTED, AND FINALLY RE-PATCHED. THIS IS TO MITIGATE POLARITY CONCERNS.

D. WHEN REFERENCING FIBER OPTIC TESTERS THE 1 JUMPER (METHOD B) METHODOLOGY SHALL BE EMPLOYED.

E. FIBER TESTERS SHALL BE COMPLIANT WITH ENCIRCLE FLUX LAUNCH SOURCES/ CONDITIONS. ENCIRCLED FLUX TESTING PATCH LEADS SHALL BE USED AND SHOULD NOT BE MATED BEYOND THE MAXIMUM OF 500 TIMES.

F. DELIVERED CABLE TESTS ARE NOT REQUIRED, HOWEVER A CERTIFICATE OF CONFORMANCE SHALL BE SUPPLIED WITH EACH TRUNK CABLE AND COPIES MADE AVAILABLE ON SITE AND PROVIDED IN THE FINAL HANDOVER DOCUMENTATION.

G. INDIVIDUAL CABLE RUNS SHALL BE TRACEABLE TO THE DELIVERED TRUNK CERTIFICATION.

3.5 CATEGORY 6/6A UTP AND CATEGORY 6A F/UTP TESTING

A. SEE SECTION 27 15 00 - HORIZONTAL CABLING FOR TESTING REQUIREMENTS.

3.6 DOCUMENTATION

A. ALL TEST RESULTS ARE TO BE ISSUED IN PDF FORMAT A MAXIMUM OF TWO DAYS AFTER FINAL COMPLETION OF THE TESTING. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

B. PDF FILE SIZES ARE TO BE NO GREATER THAN 10MB AS EMAIL IS THE ONLY OPTION OF ISSUING THEM. PAPER COPIES ARE NOT REQUIRED.

C. THE TEST RESULTS IN THE PDF DOCUMENT ARE TO BE SEQUENCED IN NUMERICAL ORDER, AND THE PORT DESCRIPTION SHOULD MATCH THE LABELLING NOMENCLATURE. IT IS IMPERATIVE THAT THE TEST RESULTS DETAIL THE LOCAL LENGTH MEASUREMENT UNITS.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PORTS HAVE BEEN 100% TESTED PRIOR TO SUBMITTING THE TEST RESULTS.

E. CONTRACTOR SHALL PROVIDE IN ELECTRONIC FORMAT:
1. A FINAL AS-BUILT FLOOR PLAN DRAWINGS DETAILING THE LABELING OF ALL DATA OUTLETS.
2. ALL FIBER OPTIC AND COPPER TEST RESULTS AS NOTED ABOVE.
3. MANUFACTURER'S PERFORMANCE AND APPLICATION WARRANTY.

F. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND ALL INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

END OF SECTION

SECTION 27 53 19 - CELLULAR ANTENNA

PART 1 - GENERAL

1.1 DESCRIPTION

A. CELLULAR ANTENNAS ARE DEPLOYED FOR BRANCHES.

PART 2 - PRODUCTS

2.1 MATERIALS

A. JPMC'S CELLULAR ANTENNA DEPLOYMENT UTILIZES THE FOLLOWING MAJOR MATERIALS:
1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)
2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS
3. CEILING MOUNT BRACKET (JDTECK) FOR INDOOR PANEL ANTENNAL INSTALLS
4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

PART 3 - EXECUTION

3.1 INSTALLATION

A. CABLE & ANTENNA INSTALLATION
1. ROOFTOP INSTALLATION:
   a. PERFORM RF ASSESSMENT FROM THE ROOF FOR VERIZON WIRELESS AND AT&T WIRELESS LTE SERVICE TO CONFIRM BANKING CENTER HAS A USEABLE LTE SIGNAL BY THE TIME IT REACHES JPMC ROUTER IN THE RETAIL MAIN EQUIPMENT ROOM (RMER);
      1) GNS SIGNAL STRENGTH & QUALITY GUIDELINES:
   a. RSSI: > -80 DBM (SIGNAL STRENGTH - LTE OR 3G)
      NOTE: SS POWER CAN BE USED IN PLACE OF RSSI ON THE CELL SURVEY TO INDICATE SIGNAL STRENGTH. SS POWER READING MUST BE ≥ 97 DBM.
   b. RSRP: > -105 DBM (SIGNAL STRENGTH SPECIFIC TO LTE)
   c. RSRQ: > -13 DB (SIGNAL QUALITY SPECIFIC TO LTE)
   d. SNR: > 5 DB (SIGNAL QUALITY - LTE OR 3G)
   b. PERFORM INITIAL SPEED TESTS WITH A LTE MODEM TECHNOLOGY THAT IS EQUAL TO RETAIL NETWORK STANDARD (LTE CATEGORY 3, CATEGORY 6, OR CATEGORY 18). RECORD LOCAL FREQUENCY BANDS AND TRANSMIT/RECEIVE CHANNELS IN USE FOR EACH PROVIDER. FOR USE WITH MORE PRECISE TESTING EQUIPMENT. (I.E., ANRITSU DEVICE). CONTACT RETAIL NETWORK TEAM FOR CURRENT LTE STANDARD BEING USED.
   c. PROVIDE JPMC REAL ESTATE WITH A RECOMMENDATION FOR ANTENNA PLACEMENT - JPMC TO APPROVE FINAL ANTENNA PLACEMENT PRIOR TO PLACEMENT
   d. INSTALL (1) CELLULAR ANTENNA (TBD). INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE LIGHTNING ARRESTOR LOCATION USING EXISTING ROOFTOP PENETRATION WHEREVER FEASIBLE
      1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE LIGHTNING ARRESTOR PROTECTED END UTILIZING (TBD) CONNECTOR TO CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR)
      2) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS AND CONNECTIVITY TO THE ROUTER.
   e. ATTACH THE ANTENNA-END OF THE CABLE TO THE CISCO 4G LIGHTNING ARRESTOR
   f. EXTEND FROM SURGE PROTECTOR TO ANTENNA TO THE 4G COMPATIBLE LIGHTNING PROTECTOR.
      1) TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING N-TYPE MALE CONNECTOR, AND THE LIGHTNING ARRESTOR UNPROTECTED END UTILIZING TNC-TYPE MALE CONNECTOR).
   g. GROUND THE SURGE PROTECTOR WITH A #6 AWG GROUND WIRE TO NEAREST GROUND SOURCE. THE GROUND CABLE MAY NOT EXCEED 20 INCHES.
   h. WEATHERIZE ANY OUTDOOR CONNECTIONS AND FIRE-STOP ALL PENETRATIONS

2. CEILING-MOUNT INSTALLATION:
   a. INSTALL (1) JPMC-SUPPLIED CELLULAR ANTENNA [COMMSCOPE CELLMAX-D-CPUSE-O)] WITH CEILING MOUNT BRACKET JDTECK (CMB-YAMB-1) AT JPMC-DESIGNATED LOCATION WITHIN THE BANKING CENTER, IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
   b. INSTALL (1) LMR 240 (OR LMR 400) COAX CABLE FROM THE RMER/RTR TO THE CELLULAR ANTENNA LOCATION
      1) PROVIDE 2 FEET OF SLACK AT THE MIDPOINT OF THE VERTICAL CABLE MANAGER, TO ASSURE BEND RADIUS AND CONNECTIVITY TO THE ROUTER.
   c. TERMINATE BOTH ENDS OF THE LMR 240 (OR LMR 400) COAX CABLE WITH THE ANTENNA END UTILIZING TNC-FEMALE CONNECTOR AND THE CISCO 819 END UTILIZING TNC-TYPE MALE CONNECTOR)

B. TESTING/REMEDIATION/DOCUMENTATION
1. TEST COAXIAL (LMR 240 OR LMR 400) CABLE FROM ROUTER END TO ANTENNA END FOR; CONTINUITY, SHORTS, SIGNAL LOSS, ETC.
2. TEST RF SIGNAL STRENGTH/QUALITY AT THE RTR/RMER END OF THE CONNECTION DELIVERED BY ANTENNA
3. COMPARE SIGNAL LEVELS AT ROUTER TO DESIGN VALUES
4. REMEDIATE ANY SYSTEM ISSUES (ANTENNA OR CABLING) THAT DEVIATE FROM PLANNED VALUES
5. PROVIDE PHOTOS OF ANTENNA INSTALLATION AND RMER/RTR TERMINATION ALONG WITH FINAL TEST RESULTS FOR SWEEP AND RF SIGNAL LEVEL TESTS TO JPMC (REQUIREMENT FOR FINAL ACCEPTANCE)

END OF SECTION

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

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issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

designed	KB	date	12.21.2020	drawn	KB
checked	CC	scale	AS NOTED		

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TELECOM BOOK SPECS

job no.
OVP-38200P368999

sheet
TC-004

SECTION 27 15 00 - STRUCTURED CABLING - HORIZONTAL CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. CATEGORY 6 HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL STANDARD WALL OUTLETS AND ATM CABLE RUNS UNLESS NOTED OTHERWISE. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT OR 48-PORT PATCH PANEL WITH CATEGORY 6, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.

B. CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL WIRELESS ACCESS POINT AND SECURITY CAMERA LOCATIONS. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT PATCH PANEL WITH CATEGORY 6A, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.

C. FOILED/UNSHIELDED TWISTED PAIR CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL VIDEO MONITOR LOCATIONS WHERE IDENTIFIED TO SUPPORT HDBASE-T TECHNOLOGY. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT SHIELDED PATCH PANEL WITH CATEGORY 6A, SHIELDED, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.

D. TELEPRESENCE CONTROLLER LOCATIONS WILL BE EQUIPPED WITH POINT-TO-POINT F/UTP CATEGORY 6A HORIZONTAL CABLES AND AUDIO CABLES.

E. IN NO CASE SHALL CATEGORY 6 / 6A, AND F/UTP CATEGORY 6A CABLE RUNS EXCEED 90M (295 FT) IN LENGTH. IN THE EVENT THAT A CABLE RUNS EXCEEDS 90M (295FT) BUT NO MORE THAN 300M (984FT), THEN 50-MICRON, OM3-RATED MULTIMODE FIBER SHALL BE INSTALLED WITH FIBER-TO-COPPER MEDIA CONVERTERS ON BOTH ENDS OF THE CABLE RUN.

F. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 PLENUM REQUIREMENTS

A. LOCAL OR NATIONAL CODES MAY ALLOW NON-PLENUM (PVC) CABLE IN SOME LOCATIONS, IN WHICH CASE CONTRACTOR SHALL INFORM OPR THAT PLENUM RATED CABLE IS NOT REQUIRED. IF THE USE OF PVC CABLE IS APPROVED BY OPR, CONTRACTOR SHALL QUOTE AND INSTALL PVC CABLE. IF NO INFORMATION EXISTS REGARDING PLENUM/PVC CABLE REQUIREMENTS, CONTRACTOR SHALL QUOTE AND INSTALL PLENUM RATED CABLE.

2.2 PATCH CORDS - GENERAL

A. ONLY FACTORY TERMINATED PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. UTP PATCH CORDS THAT ARE PRE-TERMINATED (E.G., CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER) ARE NOT PERMISSIBLE, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR.

B. QUANTITIES, TYPES, AND LENGTHS OF PATCH CORDS ARE SPECIFIED BY OPR.

C. ALL PATCH CORDS FOR PRINTERS, MULTI-FUNCTION DEVICES (MFD), ETC. SHALL BE 7 FT. IN LENGTH.

D. RMER/RTR PATCH CORDS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, TO ENSURE APPROPRIATE LENGTHS AND TIMELY MATERIAL PROCUREMENT. PATCH CORDS SHALL HAVE NO MORE THAN 1' OF SLACK.

E. PATCH CORDS SHALL BE COLORED AS FOLLOWS:
1. CATEGORY 6: GRAY
2. CATEGORY 6A: WHITE
3. CATEGORY 6A F/UTP: WHITE

2.3 MATERIALS

A. SEE THE WORK AREA OUTLET SCHEDULE, CABLE SCHEDULE, AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
1. CATEGORY 6 UTP MATERIALS
2. CATEGORY 6A UTP MATERIALS
3. CATEGORY 6A F/UTP MATERIALS
4. CATEGORY 6 OSP UTP MATERIALS
5. CATEGORY 6A OSP UTP MATERIALS
6. FACEPLATES
7. OUTSIDE PLANT HORIZONTAL MULTIMODE FIBER MATERIALS

2.4 COPPER AND FIBER OPTIC TESTING EQUIPMENT

A. THE FOLLOWING PRODUCTS SHOULD BE USED WHEN TESTING STRUCTURED CABLING INFRASTRUCTURE:
1. TEST EQUIPMENT WHICH IS CAPABLE OF ELECTRONICALLY STORING TEST RESULT DATA. THE TESTER SHALL EXCEED ANSI/TIA-1152 LEVEL 2G
2. CATEGORY 6 AND CATEGORY 6A PERMANENT AND CHANNEL ADAPTERS
3. SINGLE-MODE AND MULTI-MODE FIBER ADAPTERS
4. ENCIRCLED FLUX REFERENCE CORDS
5. FIBER INSPECTION PROBE/ MICROSCOPE
6. APPROPRIATE CONNECTOR CLEANING TOOLS/ TAPES
7. 2M CATEGORY 6 PATCH LEADS IF CHANNEL TESTING CATEGORY 6 CABLING
8. 2M CATEGORY 6A PATCH LEADS IF CHANNEL TESTING CATEGORY 6A CABLING

PART 3 - EXECUTION

3.1 INSTALLATION

A. ALL RJ45 TERMINATIONS EMPLOY 568B TERMINATIONS.

B. ALL CABLES AND OUTLETS SHALL BE LABELED IN ACCORDANCE WITH SECTION 27 05 53.

C. COMPLETED HORIZONTAL CABLES SHALL BE TESTED IN ACCORDANCE WITH PART 3.2 - TESTING BELOW.

D. CONTRACTOR SHALL POPULATE THE PATCH PANEL WITH OUTLET TERMINATIONS TO SUPPORT INITIAL WORK AREA OUTLET REQUIREMENTS, AND LEAVING A GROWTH FACTOR OF 10% AS OPEN POSITIONS.

E. TO ENSURE OPTIMUM CABLE PERFORMANCE, BUNDLES OF 4-PAIR CABLES SHALL NOT BE TIGHTLY BUNDLED AND CAREFULLY ALIGNED FOR DESIRABLE AESTHETIC APPEARANCE.

F. CATEGORY 6/6A CABLES SHALL NOT BE KINKED OR UNDULY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER.

G. DURING TERMINATION, PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.

H. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES TO ENSURE A PROFESSIONAL APPEARANCE AND RUN STRAIGHT, LEVEL, AND PARALLEL TO BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII AT ALL TIMES.

I. IN THE RMER/RTR, CABLES ASSOCIATED WITH A GIVEN WORK AREA SHALL BE TERMINATED INTO CONTIGUOUS POSITIONS IN THE PATCH PANEL. FOR EXAMPLE, IF EACH WORK AREA IS EQUIPPED WITH TWO CATEGORY 6 CABLES, THE FIRST WORK AREA SHALL BE TERMINATED ON POSITIONS 1 AND 2 OF THE PATCH PANEL, THE SECOND WORK AREA SHALL BE TERMINATED ON POSITIONS 3 AND 4 OF THE PATCH PANEL, AND SO FORTH.

J. IN THE RMER/RTR, A FLOOR PLAN MAP ILLUSTRATING THE TELECOM OUTLETS, WAPS AND IP CAMERA LOCATIONS AND NUMBERS SHALL BE MADE READILY AVAILABLE AND VIEWABLE.

K. WHEREVER PRACTICAL, JACKS THAT ARE INSTALLED AT MODULAR FURNITURE LOCATIONS SHALL BE FULLY INTEGRATED INTO FURNITURE RACEWAY LOCATIONS THAT ARE DESIGNED FOR THE PURPOSE, AVOIDING THE USE OF BISCUIT JACKS. WHERE THE FURNITURE SYSTEM DOES NOT CONTAIN AN INTEGRAL RACEWAY, AND NO APPARENT CABLE MANAGEMENT METHOD IS PROVIDED, CABLING SHALL BE NEATLY DRESSED AND CONCEALED UPON REVIEW AND APPROVAL BY THE OPR. VELCRO, DOUBLE SIDED TAPE OR OTHER ADHESIVE MATERIALS WILL ONLY BE ACCEPTED IF PREVIOUSLY APPROVED IN WRITING BY THE OPR.

L. CABLING TO WALL MOUNTED WORKSTATION OUTLETS SHALL TERMINATE IN A SINGLE- OR DOUBLE-GANG BOX PROVIDED BY OTHERS. CONTRACTOR SHALL PROVIDE THE NECESSARY CONNECTORS (AS DESCRIBED ELSEWHERE) UNDER A SINGLE-GANG FACEPLATE. THE TYPE OF FACEPLATE TO BE USED SHALL BE COORDINATED WITH THE ARCHITECT FOR COLOR, FINISH, ETC.

M. CABLING TO FLOOR MOUNTED WORKSTATION OUTLETS SHALL BE TERMINATED IN A FLUSH OR SURFACE MOUNTED POKE-THRU OR SERVICE FITTING PROVIDED BY OTHERS. ALL CABLING AND CONNECTORS SHALL REMAIN WITHIN THE POKE-THRU OR SERVICE FITTING HOUSING. IF NECESSARY, THE CONTRACTOR SHALL MODIFY THE BLANK PLATES PROVIDED WITH THE POKE-THRU OR SERVICE FITTING IN ORDER TO ACCOMMODATE THE CONNECTORS.

N. FOR HORIZONTAL FTP CABLING, GROUNDING OF THE SHIELD SHOULD BE MADE ON THE RMER END ONLY.

O. FOR ALL HORIZONTAL CABLE RUNS THAT RUN EXTERIOR TO THE MAIN BUILDING, INSTALL OSP-RATED UTP OR FIBER CABLE. CONDUIT SHALL BE PROVIDED FROM THE OUTLET TO THE RMER/RTR. OSP CABLING SHALL NOT BE INSTALLED IN A PLENUM-RATE CEILING SPACE.

P. FOR EACH UTP OSP CABLE THAT TERMINATES OUTSIDE THE ROOF LINE OF THE BUILDING, FURNISH AND INSTALL ONE OSP PROTECTOR, MOUNTED TO THE PLYWOOD BACKBOARD IN THE EQUIPMENT ROOM, AND BONDED TO THE GROUNDING BUSBAR VIA A MINIMUM 14 AWG GREEN JACKETED GROUND WIRE. TERMINATE THE UTP OSP CABLE AT THE PROTECTOR PER MANUFACTURER SPECIFICATIONS. WHERE THE OSP CABLE IS TERMINATED IN AN RJ45 JACK AT AN ATM, PROTECTION IS FURNISHED BY OTHERS, AND A 6 FT SERVICE LOOP SHALL BE PROVIDED SO THAT THE SURFACE MOUNTED RJ45 SINGLE-OUTLET JACK CAN BE DRESSED INTO THE INTERIOR OF THE ATM BY OTHERS.

Q. ALL OUTLET JACKS, CABLE, PATCH PANEL, PATCH CORDS MUST MATCH THE CATEGORY OR FIBER GRADE OF CABLE BEING DEPLOYED.

3.2 TESTING

A. DESCRIPTION
1. PRIOR TO THE TESTING COMMENCING, THE CONTRACTOR IS TO PROVIDE A COMPREHENSIVE TESTING METHODOLOGY DOCUMENT FOR APPROVAL, PRIOR TO ANY TESTING COMMENCING. THIS DOCUMENT SHALL INCLUDE THE FOLLOWING INFORMATION:
2. BRIEF OVERVIEW OF THE PROJECT (LOCATION, SCOPE ETC.)
3. OVERVIEW OF THE TESTING PROCEDURE INCLUDING SUPPORTING DOCUMENTATION, ONSITE EQUIPMENT CALIBRATION/ REFERENCING AND CLEANING PROCEDURE.
4. DETAILS OF THE EQUIPMENT TO BE USED.
5. CALIBRATION REQUIREMENTS AND CERTIFICATION FOR THE EQUIPMENT TO BE USED
6. TEST RESULT BACKUP PROCEDURE
7. DETAILS OF PROCEDURE FOR REMEDIATING ANY TEST RESULTS WHICH DO NOT PASS THE REQUIRED TESTS
8. A PROGRAM OF WORKS FOR THE TESTING, SHOULD THIS NOT BE CLEAR IN THE OVERALL INSTALLATION PROGRAM

B. ALL ELECTRONIC AND OPTICAL MEASURING (TEST) EQUIPMENT SHALL BE WITHIN 12 MONTHS OF A CALIBRATION THAT HAS BEEN CARRIED OUT BY AN APPROVED CALIBRATION HOUSE. ALL CALIBRATION CERTIFICATES SHALL BE AVAILABLE ON SITE DURING THE TESTING PHASE. ALL TEST RESULTS SHALL IDENTIFY THE EQUIPMENT SERIAL NUMBER (LOCAL AND REMOTE) OF TEST EQUIPMENT USED

C. THE "STORE PLOT DATA" FUNCTION OF THE TESTER MUST BE ENABLED PRIOR TO ANY TESTING COMMENCING. THIS IS TO ENABLE ELECTRONIC RE-TESTING AT A LATER DATE SHOULD THIS BE REQUIRED. TEST RESULTS ISSUED WITHOUT THE PLOT DATA ENABLED WILL BE CONSIDERED NON-COMPLIANT AND RE-TESTING WILL BE REQUIRED AT THE CONTRACTORS COST.

D. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED.

E. ONCE ALL PRODUCTS (I.E. CABLES AND ASSOCIATED HARDWARE) HAVE BEEN FULLY INSTALLED IN THEIR FINAL LOCATIONS AND LABELLED, TESTING OF ALL CORES/ CABLES MAY COMMENCE.

F. ALL CABLES/ CORES SHALL BE 100% TESTED IN ACCORDANCE WITH THE SECTIONS BELOW.

G. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMEDIATE ALL FAULTS FOUND WHILST TESTING AT ITS OWN EXPENSE. ALL TEST EQUIPMENT SHALL BE BY THE CONTRACTOR.

H. JPMC MAY CHOOSE TO WITNESS TEST RANDOM ELEMENTS OF THE INSTALLATION, WHICH SHOULD HAVE ALREADY BEEN ALLOWED FOR IN THE COSTS. THE CONTRACTOR SHALL PROVIDE 2 TESTING ENGINEERS AND ALL EQUIPMENT REQUIRED TO UNDERTAKE THE WITNESS TESTING (INCLUDING FULLY CHARGED TEST EQUIPMENT). CHANNEL TESTING (INCLUDING EXISTING PREVIOUSLY INSTALLED INFRASTRUCTURE MAY ALSO BE REQUIRED AS PART OF THE WITNESS TESTING, TO ENSURE THAT THE FULL CHANNEL IS COMPLIANT.

I. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL SCS INFRASTRUCTURE HAS BEEN 100% TESTED AND TEST RESULT ISSUED TO JPMC IN BOTH TESTER AND PDF FORMAT. TEST RESULTS ARE TO BE BROKEN DOWN INTO 10MB FILE SIZES AND EMAILED (FTP SITES, CDS OR FLASH DRIVES ARE NOT PERMITTED).

3.3 FIBER TESTING

A. TESTS SHALL BE CARRIED OUT AT 850NM AND 1300NM FOR MULTI-MODE TESTING AND 1310NM AND 1550NM FOR SINGLE-MODE TESTING IN ONE DIRECTION.

B. THE FIBER MANUFACTURER'S WARRANTY CONDITIONS SHALL BE USED TO PERFORM ALL FIBER TESTING. THESE STANDARDS ARE MORE STRINGENT THAN INTERNATIONAL AND NATIONAL STANDARDS. THE CONTRACTOR IS REQUIRED TO PERFORM CUSTOM TESTS USING THE TESTER AND IS THEREFORE TO ADJUST THE CONTACTOR LOSS VALUES IN THE TESTER SOFTWARE ACCORDINGLY.

C. SHOULD INSTALLED FIBERS BE REQUIRED TO BE CONNECTED DIRECTLY INTO A SWITCH IN A HARNESS LINK TOPOLOGY, ALL FIBERS WILL BE PATCHED PRIOR TO TESTING COMMENCING, THEN INDIVIDUALLY UN-PATCHED, TESTED, AND FINALLY RE-PATCHED. THIS IS TO MITIGATE POLARITY CONCERNS.

D. WHEN REFERENCING FIBER OPTIC TESTERS THE 1 JUMPER (METHOD B) METHODOLOGY SHALL BE EMPLOYED.

E. FIBER TESTERS SHALL BE COMPLIANT WITH ENCIRCLE FLUX LAUNCH SOURCES/ CONDITIONS. ENCIRCLED FLUX TESTING PATCH LEADS SHALL BE USED AND SHOULD NOT BE MATED BEYOND THE MAXIMUM OF 500 TIMES.

F. DELIVERED CABLE TESTS ARE NOT REQUIRED, HOWEVER A CERTIFICATE OF CONFORMANCE SHALL BE SUPPLIED WITH EACH TRUNK CABLE AND COPIES MADE AVAILABLE ON SITE AND PROVIDED IN THE FINAL HANDOVER DOCUMENTATION.

G. INDIVIDUAL CABLE RUNS SHALL BE TRACEABLE TO THE DELIVERED TRUNK CERTIFICATION.

3.4 CATEGORY 6 AND CATEGORY 6A TESTING

A. PERMENANT LINK AND CHANNEL TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDRADS PER REGION:
1. ISO/IEC 11801
2. ANSI/TIA 568

B. PERMANENT LINK TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND AN RJ45 OUTLET.

C. CHANNEL TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND A FACTORY TERMINATED RJ45 PLUG (WHEN A HARNESS LINK OR CONSOLIDATION POINT HAS BEEN DEPLOYED). CHANNEL TESTING BETWEEN TWO RJ45 OUTLETS IS NOT TYPICALLY REQUIRED.

D. SYSTEM ACCEPTANCE TESTS FOR CATEGORY 6 ARE DETAILED BELOW:

CATEGORY 6
1. WIRE MAP
2. LENGTH
3. PROPAGATION DELAY
4. DELAY SKEW
5. DC LOOP RESISTANCE - RECORDED FOR INFORMATION ONLY
6. DC RESISTANCE UNBALANCE - RECORDED FOR INFORMATION ONLY
7. INSERTION LOSS
8. NEXT (NEAR-END CROSSTALK)
9. PS NEXT (POWER SUM NEAR-END CROSSTALK)
10. ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY
11. PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY
12. ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END)
13. PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
14. RETURN LOSS
15. TCL (TRANSVERSE CONVERSION LOSS) - RECORDED FOR INFORMATION ONLY
16. ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS) - RECORDED FOR INFORMATION ONLY

CATEGORY 6A & CATEGORY 6A (CATAGORY6A SHIELDED/FOILED CABLES FOR AUDIO-VIDEO CABLES ONLY)
1. WIRE MAP
2. LENGTH
3. PROPAGATION DELAY
4. DELAY SKEW
5. DC LOOP RESISTANCE
6. DC RESISTANCE UNBALANCE WITHIN A PAIR
7. DC RESISTANCE UNBALANCE BETWEEN PAIRS
8. INSERTION LOSS
9. NEXT (NEAR-END CROSSTALK)
10. PS NEXT (POWER SUM NEAR-END CROSSTALK)
11. ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END)
12. PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END)
13. ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END)
14. PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
15. RETURN LOSS
16. TCL (TRANSVERSE CONVERSION LOSS)
17. ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS)
18. PS ANEXT (POWER SUM ALIEN NEAR-END CROSSTALK)
19. AVERAGE PS ANEXT (AVERAGE POWER SUM ALIEN NEAR-END CROSSTALK)
20. PS AACR-F (POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
21. AVERAGE PS AACR-F (AVERAGE POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
22. SHIELD/FOIL CONTINUITY (FOR CATAGORY6A SHIELDED/FOILED CABLES ONLY)

E. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED

3.3 DOCUMENTATION

A. ALL TEST RESULTS ARE TO BE ISSUED IN PDF FORMAT A MAXIMUM OF TWO DAYS AFTER FINAL COMPLETION OF THE TESTING. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

B. PDF FILE SIZES ARE TO BE NO GREATER THAN 10MB AS EMAIL IS THE ONLY OPTION OF ISSUING THEM. PAPER COPIES ARE NOT REQUIRED.

C. THE TEST RESULTS IN THE PDF DOCUMENT ARE TO BE SEQUENCED IN NUMERICAL ORDER, AND THE PORT DESCRIPTION SHOULD MATCH THE LABELLING NOMENCLATURE. IT IS IMPERATIVE THAT THE TEST RESULTS DETAIL THE LOCAL LENGTH MEASUREMENT UNITS.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PORTS HAVE BEEN 100% TESTED PRIOR TO SUBMITTING THE TEST RESULTS.

E. THE CONTRACTOR SHALL PROVIDE AN ELECTRONIC COPY OF THE TEST RESULTS AND THE FINAL AS-BUILT DRAWINGS SHOWING ALL HORIZONTAL CABLE LABELS AT EACH OUTLET LOCATION. THE FINAL AS-BUILT CABLE LABEL SHALL BE IDENTICAL TO THE CABLE IDENTIFIER IN THE TEST RESULTS.

F. THE CONTRACTOR SHALL PROVIDE THE FINAL MANUFACTURER PERFORMANCE AND ASSURANCE WARRANTY, TEST RESULTS AND FINAL AS-BUILT DRAWINGS AS A COMPLETE CLOSE OUT SUBMITTAL. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

END OF SECTION

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NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

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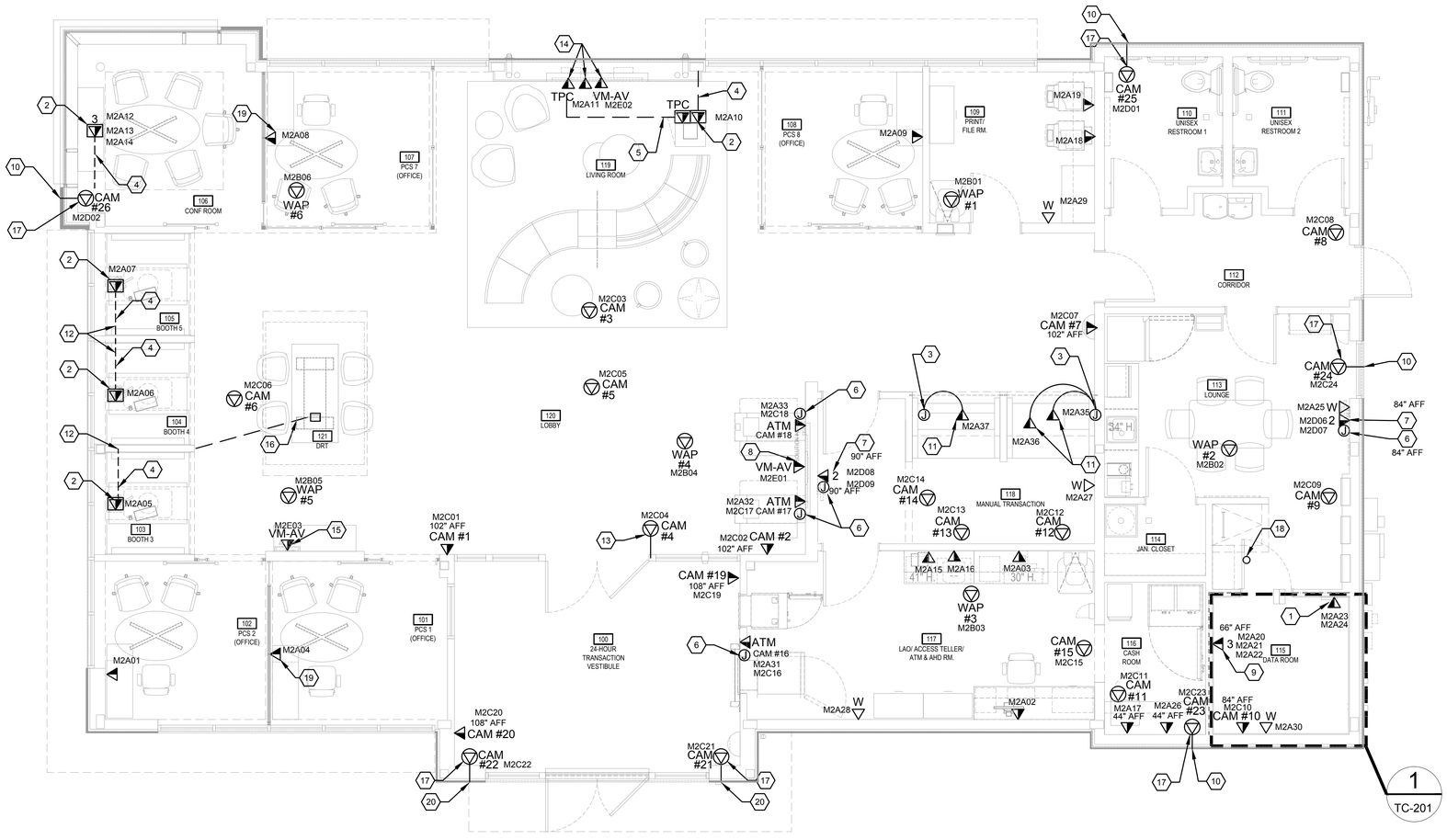
TELECOM BOOK SPECS

job no.
OVP-38200P368999

sheet
TC-005



1 TELECOM FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

TELECOM CEILING PLAN GENERAL NOTES

A. CAMERA LOCATIONS SHOWN ARE FOR ESTIMATION OF STRUCTURED CABLING SCOPE OF WORK. FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED CLOSER TO THE BRANCH OPENING DATE. COORDINATE THE ACTUAL LOCATIONS AND QUANTITIES WITH THE PROJECT MANAGER.

TELECOMMUNICATIONS PLAN NOTES (#)

1. OUTLET FOR BUILDING AUTOMATION SYSTEM EQUIPMENT. COORDINATE THE EXACT LOCATION WITH THE BAS EQUIPMENT PRIOR TO ROUGH-IN.
2. FLOOR OUTLET MOUNTED WITHIN DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. REFER TO SHEET TC-000 FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING FOR CABLING TO THE TELLER OUTLET. CONCEAL CABLING FROM JUNCTION BOX TO OUTLET WITHIN FLEXIBLE CONDUIT. SEE ARCHITECTURAL DETAILS FOR MORE INFORMATION.
4. PROVIDE 1" CONDUIT UNDER SLAB TO WALL AS SHOWN. ROUTE CONDUIT CONCEALED WITHIN WALL AND STUB OUT TO ABOVE ACCESSIBLE CEILING.
5. PROVIDE 1" CONDUIT TO DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX FOR TELEPRESENCE CONTROL CABLING. REFER TO FACEPLATE DETAIL AND TERMINATION DETAILS ON SHEET TC-302. REFER TO AV STANDARDS FOR ADDITIONAL DETAIL.
6. PROVIDE A SINGLE GANG BACKBOX WITH A 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. THIS ROUGH-IN WILL BE FOR ONE RG59/U AND ONE 18/2 CABLE PROVIDED BY THE SECURITY VENDOR.
7. OUTLET FOR SECURITY CAMERA MONITOR. PROVIDE CAT6A CABLING.
8. AV SOLUTION #1. REFER TO SHEET TC-501 FOR ADDITIONAL INFORMATION.
9. DATA CONNECTION FOR ACCESS CONTROL PANEL. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE. REFER TO SHEET TC-201 FOR ADDITIONAL INFORMATION.
10. MOUNT EXTERNAL CONDUIT PENETRATION AT 10'-0" AFG. COORDINATE WITH ARCHITECTURAL ELEVATIONS TO ENSURE THAT CAMERA LENS CLEARS THE SOFFIT FOR AN UNOBSTRUCTED VIEW.
11. DATA OUTLET MOUNTED IN CASEWORK. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT/JPMC PROJECT MANAGER.
12. DECORATIVE CEILING AREA. EXTEND CONDUIT TO NEAREST ACCESSIBLE CEILING.
13. MULLION MOUNTED MINI CAMERA. PROVIDE CONDUIT IN DOOR FRAME EXTENDING TO NEAREST ACCESSIBLE CEILING. COORDINATE FINAL MOUNTING WITH PROJECT MANAGER.
14. AV SOLUTION #3. REFER TO SHEET TC-502 FOR ADDITIONAL INFORMATION.
15. AV SOLUTION #7. REFER TO SHEET TC-503 FOR ADDITIONAL INFORMATION.
16. PROVIDE 3/4" CONDUIT FROM DUAL USE FLOOR BOX TO ABOVE ACCESSIBLE CEILING FOR FUTURE DATA CABLING. PROVIDE PULL STRING WITHIN CONDUIT.
17. PLENUM-RATED ABOVE CEILING CONNECTOR ASSEMBLY MOUNTED ABOVE ACCESSIBLE CEILING FOR EXTERIOR SECURITY CAMERA. REFER TO DETAIL ON SHEET TC-401 FOR ADDITIONAL INFORMATION. COORDINATE WITH SECURITY DESIGNER AND ARCHITECT FOR FINAL MOUNTING LOCATION AND CONDUIT EXTERIOR PENETRATION LOCATION.
18. RECOMMENDED LOCATION OF THE CELLULAR ANTENNA ROOF PENETRATION. COORDINATE LOCATION WITHIN 36" OF THE ACCESS LADDER. CONDUIT PATHWAY SHALL EXTEND FROM THE ROOF PENETRATION TO THE RMER DATA CLOSET. SEE TC-201 AND TC-402 FOR ADDITIONAL INFORMATION.
19. OUTLET MOUNTED IN PRE-MANUFACTURED FURNITURE WALL (AKA VIA WALL OR PRIVACY WALL). EC TO PROVIDE A 3/4" FLEXIBLE CONDUIT WITH PULL STRING ROUTED FROM THE COMMUNICATIONS OUTLET OPENING TO ABOVE FINISHED CEILING. TC TO PROVIDE CABLING TO COMMUNICATION OPENING AND PROVIDE OUTLET FACEPLATE AS SHOWN ON TC-301.
20. MOUNT EXTERNAL CONDUIT PENETRATION AT 9'-0" AFG. COORDINATE WITH ARCHITECTURAL ELEVATIONS TO ENSURE THAT CAMERA LENS CLEARS THE SOFFIT FOR AN UNOBSTRUCTED VIEW.

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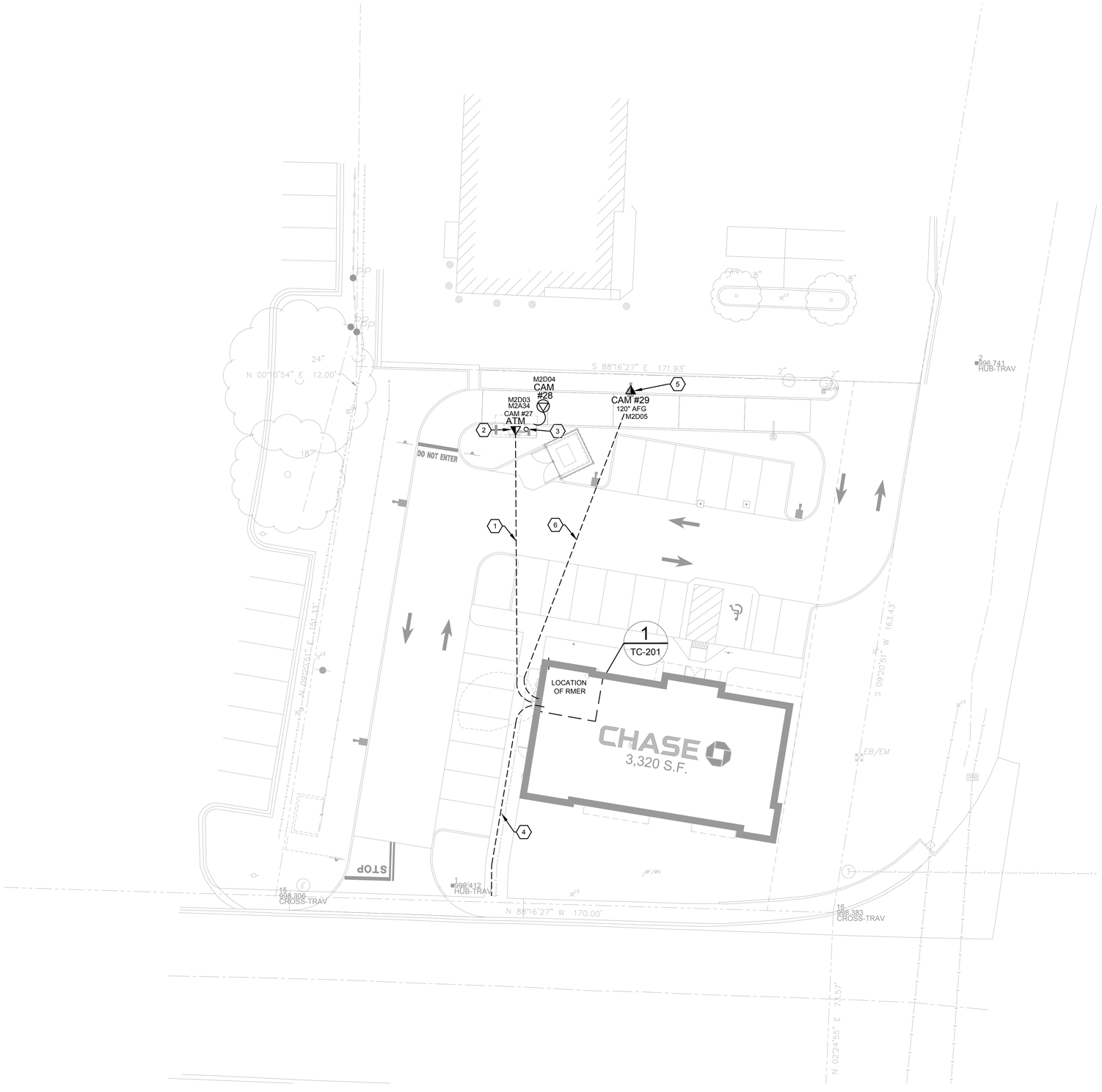
TELECOM FIRST FLOOR PLAN

job no. OVP-38200P368999

sheet

TC-101



1 TELECOM SITE PLAN

SCALE: 1/16" = 1'-0"

TELECOMMUNICATIONS PLAN NOTES (#)

1. PROVIDE ONE (1) 2" CONDUIT TO EXTERIOR ATM LOCATION FROM RMER. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS.
2. PROVIDE ATM OUTLET AT THIS LOCATION UTILIZING WET LISTED CABLING. REFER TO DETAIL ON SHEET TC-302 FOR ADDITIONAL FACEPLATE CONFIGURATION INFORMATION.
3. PROVIDE 1" VERTICAL CONDUIT FROM ATM OUTLET LOCATION TO CEILING SOFFIT FOR TELECOM CABLING. PROVIDE CAT6A CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL WITHIN CANOPY JUNCTION BOX. REFER TO ATM CANOPY MOUNTED IP-CCTV CAMERA INSTALLATION DETAIL ON SHEET TC-401.
4. PROVIDE TWO (2) 2" CONDUIT TO EXTERIOR SERVICE PROVIDER POLE/HANDHOLE LOCATION FROM RMER. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS. COORDINATE FINAL PLACEMENT WITH SERVICE PROVIDER AND JPMC PROJECT MANAGER. PROVIDE IN-GRADE FLUSH MOUNTED HANDHOLE SIZED PER BICSI TDMM STANDARDS FOR ALL RUNS THAT EXCEED TWO (2) 90-DEGREE BENDS.
5. POLE MOUNTED CCTV CAMERA. PROVIDE CAT6A WET LISTED CABLE FROM RMER TO OUTLET. COORDINATE MOUNTING HEIGHT WITH JPMC PROJECT MANAGER. PROVIDE CAT6A CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL WITHIN POLE MOUNTED JUNCTION BOX. REFER TO TC-401 FOR ADDITIONAL INFORMATION.
6. PROVIDE (1) 1" CONDUIT WITH SWEEP 90-DEGREE BENDS FROM RMER TO CCTV OUTLET. PROVIDE WET LISTED CAT 6A CABLES FOR EACH OUTLET. REFER TO TC-401 FOR ADDITIONAL INFORMATION. COORDINATE CAMERA MOUNTING HEIGHT WITH JPMC PROJECT MANAGER.

UNDERGROUND CONDUIT GENERAL NOTE

A. PROVIDE HANDHOLES SIZED PER THE BICSI TDMM FOR ALL CONDUIT RUNS THAT EXCEED TWO 90 DEGREE BENDS. PROVIDE HANDHOLE IN THE STRAIGHT RUN SECTION OF CONDUIT. REFER TO DETAILS ON TC-402 FOR FURTHER INFORMATION.

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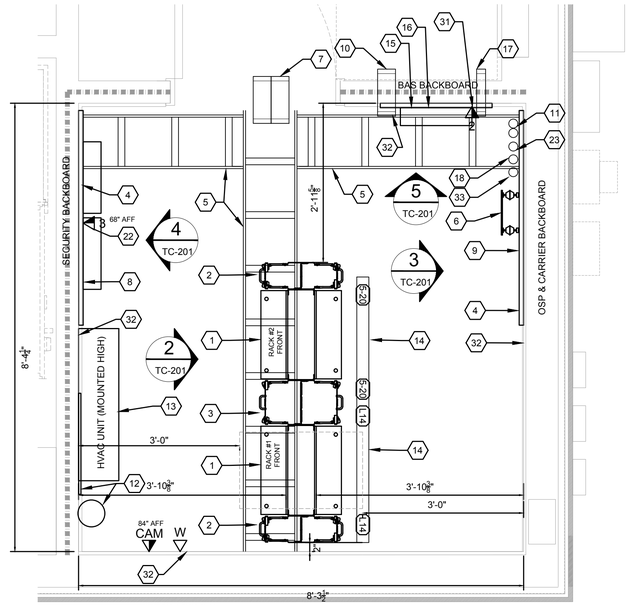
TELECOM SITE PLAN

job no. OVP-38200P368999

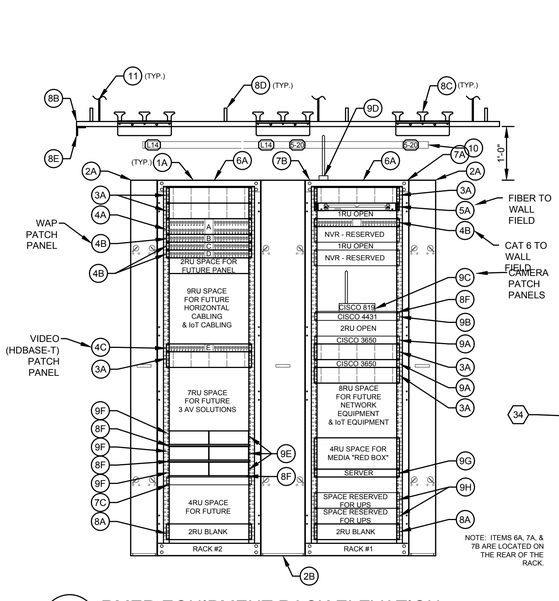
sheet

TC-102

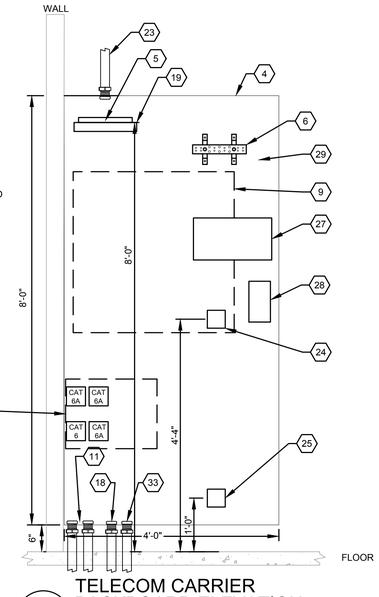
RACK EQUIPMENT SCHEDULE							
ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER	ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER
1A	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	8B	12" WIDE LADDER RACK - BLACK FINISH	CPI	10250-712
2A	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	8C	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	CPI	12101-701
2B	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	8D	LADDER RACK CABLE RETAINING POSTS	CPI	10596-706
3A	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	8E	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712
3B	1RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30139-719	8F	EQUIPMENT SHELF	CPI	11359-719
4A	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187211	9A	NETWORK SWITCH	CISCO	PROVIDED BY OWNER
4B	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187203	9B	NETWORK ROUTER	CISCO	PROVIDED BY OWNER
4C	CATEGORY 6A RATED, ANGLED, SHIELDED 24-PORT PATCH PANEL	LEVITON	4S256-S24 WITH 6ASJK-RW6	9C	CELLULAR NETWORK ROUTER WITH ANTENNA	CISCO	PROVIDED BY OWNER
5A	1RU FIBER OPTIC PANEL WITH DUPLEX LC CONNECTOR PANELS	CORNING	CCH-01U WITH CCH-CP24-A9	9D	REMOTE ANTENNA FOR CELLULAR NETWORK ROUTER	CISCO	PROVIDED BY OWNER
6A	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	9E	DIGITAL SIGNAGE PC	BY AV INSTALLER	BY AV INSTALLER
7A	BLACK VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI	TS1035241 WITH TS1012713	9F	HDBASET TRANSMITTER	BY AV INSTALLER	BY AV INSTALLER
7B	WHITE VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI	TS1035242 WITH TS1012713	9G	SERVER AND MOUNTING BRACKET (CPI 12751-719)	PROVIDED BY OWNER	PROVIDED BY OWNER
7C	HORIZONTAL POWER DISTRIBUTION UNIT FOR AV EQUIPMENT ONLY	CYBER POWER	BY AV INSTALLER	9H	UPS AND MOUNTING BRACKET	PROVIDED BY OWNER	PROVIDED BY OWNER
8A	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	10	RECEPTACLES MOUNTED ON A SEPARATE C-CHANNEL (UNISTRUT) BELOW THE LADDER RACK & ABOVE THE RACKS.		PROVIDED BY EC
				11	ALL-THREAD TO STRUCTURE		PROVIDED BY TC



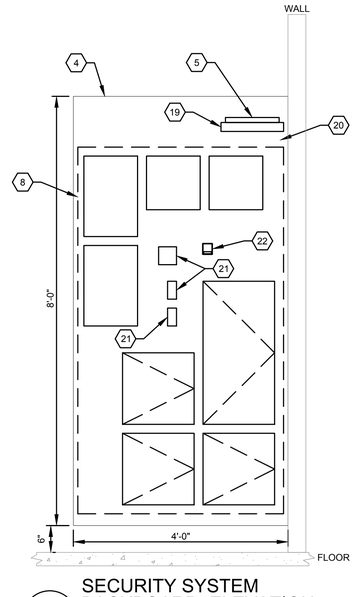
1 ENLARGED RMER PLAN
SCALE: 3/4"= 1'-0"



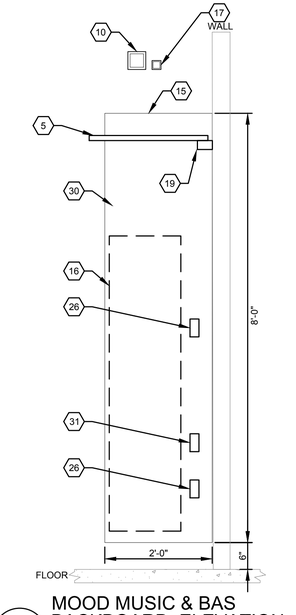
2 RMER EQUIPMENT RACK ELEVATION
SCALE: 3/4"= 1'-0"



3 TELECOM CARRIER BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"



4 SECURITY SYSTEM BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"



5 MOOD MUSIC & BAS BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"

ENLARGED MAIN EQUIPMENT ROOM NOTES

1. NEW 2-POST RACK WITH BLACK FINISH.
2. NEW 6" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH.
3. NEW 10" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH
4. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 4' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
5. NEW 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
6. LOCATION OF THE TELECOMMUNICATIONS GROUND BUSBAR. MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK.
7. PROVIDE TWO 4" PRE-MANUFACTURED FIRE-RATED SLEEVES (STI EZ-PATH PART # EZD44S2) WITH WATERFALL ADAPTER (STI PART #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. USE MUTLI-GANG PLATE (STI PART #EZP544W).
8. 4' WIDE BY 7'-0" TALL WALL FIELD AREA RESERVED FOR SECURITY EQUIPMENT.
9. 3' WIDE BY 3' TALL WALL FIELD AREA RESERVED ON BACKBOARD FOR CARRIER EQUIPMENT TO BE MOUNTED.
10. PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZDP44S2) FOR SECURITY CABLING USE ONLY.
11. E.C. TO PROVIDE TWO 2" CONDUITS FROM THE RMER TO THE CARRIER POINT OF ENTRY. ONE CONDUIT FOR THE SERVICE PROVIDER TO EXTEND THEIR DEMARCATION INTO THE NEW RMER. ONE CONDUIT WILL BE OWNER SPARE. THE E.C SHALL FIELD COORDINATE THIS ROUTE WITH THE BUILDING OWNER AND TELECOMMUNICATIONS CARRIER PRIOR TO INSTALLATION. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS.
12. PROVIDE A DRAWING OF THE FLOOR PLAN AS-BUILT WITH ALL HORIZONTAL CABLING LABELS FOR EACH OUTLET. MOUNT DRAWING TO WALL. PROVIDE ADDITIONAL FULL SIZE DRAWING TUBE ADJACENT TO CABLING DRAWING WITH A COMPLETE FULL SIZE SET OF ALL CONSTRUCTION AS-BUILT DRAWINGS FOR SITE.
13. SPACE FOR WALL MOUNTED HVAC UNIT. BOTTOM MOUNTED 8'-0" AFF WITH DRIP PAN AND DRIP PAN LEAK DETECTION. HVAC CONTRACTOR SHALL PROVIDE PROTECTION ON ALL SHARP CORNER EDGES.
14. EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30 OUTLET AT RACK #1 AND TWO NEMA 5-20 OUTLETS AT RACK #2 MOUNTED AT 7'-6" AFF. EACH OUTLET SHALL BE ON A DEDICATED CIRCUIT. EC TO MOUNT THIS INDEPENDENTLY FROM THE LADDER RACK.
15. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 2' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
16. 1'-4" WIDE BY 5'-6" TALL WALL FIELD AREA RESERVED FOR MOOD MUSIC AND BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT.
17. PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZD22) FOR MOOD MUSIC SYSTEM AND BMS CABLING USE ONLY.
18. PROVIDE 2" CONDUIT TO EXTERIOR ATM LOCATION AS SHOWN ON SHEET TC-102. PROVIDE 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS.
19. WALL MOUNTED SUPPORT BRACKET FOR LADDER RACK.
20. ALL SECURITY SYSTEM CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
21. POWER CONNECTIONS ON DEDICATED CIRCUITS AND CONDUIT HOMERUN FOR SECURITY EQUIPMENT. EC TO COORDINATE ADDITIONAL CONNECTIONS REQUIRED, OUTLET MOUNTING HEIGHT, AND OUTLET CONFIGURATIONS & LOCATIONS ON THE BACKBOARD WITH THE SECURITY VENDOR.
22. SURFACE MOUNTED DATA OUTLETS FOR THE ACCESS CONTROL PANEL FOR EQUIPMENT NETWORK CONNECTION. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE.
23. PROVIDE 1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING. REFER TO SHEET TC-402 FOR ADDITIONAL INFORMATION.
24. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR CARRIER EQUIPMENT.
25. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR FUTURE EQUIPMENT.
26. DEDICATED DUPLEX OUTLET FOR SOUND SYSTEM AND/OR BUILDING AUTOMATION SYSTEM (BAS)EQUIPMENT.
27. 12-PORT FIBER ENCLOSURE FOR EXTENSION OF CARRIER CONNECTIONS TO RACK. LABEL PORTS TO MATCH RACK MOUNTED FIBER PANEL. CORNING PART # PWH-02P.
28. 12-PORT OUTLET FOR COPPER EXTENSION OF CARRIER CONNECTIONS TO RACK. COMMSCOPE PART #106658156.
29. ALL CARRIER CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
30. ALL SECURITY, BAS, & SOUND SYSTEM CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES (TYPICAL).
31. SURFACE MOUNTED DATA OUTLET FOR THE BUILDING AUTOMATION SYSTEM (BAS) PANEL FOR EQUIPMENT NETWORK CONNECTION.
32. LOCATION FOR CONVENIENCE ELECTRICAL RECEPTACLE (BY DIV 26).
33. APPROXIMATE LOCATION OF THE 1" CONDUIT TO CCTV AND LIGHTING POLE. FIELD COORDINATE FINAL LOCATION.
34. PROVIDE SURGE PROTECTION FOR EACH CAT6 AND CAT6A CABLE LEAVING THE ROOM TO SERVE POLE MOUNTED CAMERAS AND ANY FREESTANDING ATM ISLAND/CANOPY DEVICES. PROVIDE ITW #CAT6-75 PROTECTION FOR EACH CAT6 CABLE AND ITW #CAT6A-75 FOR EACH CAT6A CABLE. BOND TO THE GROUNDING BAR PER MANUFACTURER REQUIREMENTS.

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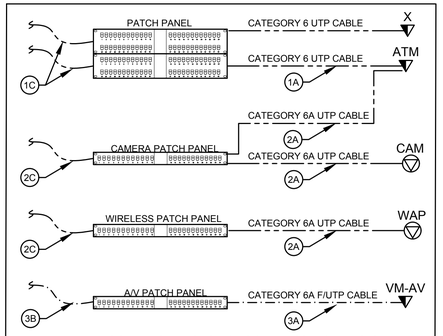
FIRST FLOOR ENLARGED RMER PLAN AND ELEVATIONS

job no.
OVP-38200P368999

sheet
TC-201

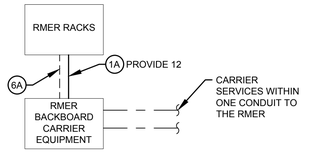
REMOTE/USER END PATCH CORD REQUIREMENTS			
OUTLET TYPE	CABLE CATEGORY	LENGTH	QTY PER OUTLET
WORKSTATION / CUBICLE / OFFICE (OUTLET TO PHONE)	CAT 6	7 FOOT	1
WORKSTATION / CUBICLE / OFFICE (PHONE TO COMPUTER)	CAT 6	5 FOOT	1
PRINTER	CAT 6	7 FOOT	1
ATM OUTLETS	CAT 6	7 FOOT	1
WALL PHONE OUTLET	PROVIDED WITH PHONE		
VIDEO MONITOR OUTLETS	CAT 6A SHIELDED	5 FOOT	1
TELEPRESENCE CONTROL OUTLETS	CAT 6A SHIELDED	5 FOOT	2
IP-CCTV CAMERA INTEGRAL TO ATM	CAT 6A	7 FOOT	1
RMER / RTR END PATCH CORD REQUIREMENTS			
PATCH PANEL TYPE	CABLE TYPE	LENGTH	QTY PER PORT
CAT6 UTP PATCH PANEL SHORTER PULL	CAT 6	7 FOOT	1
CAT6 UTP PATCH PANEL LONGER PULL	CAT 6	10 FOOT	1
SHIELDED PATCH PANEL	CAT 6A SHIELDED	7 FOOT	1
CAT6A UTP PATCH PANEL SHORTER PULL	CAT 6A	7 FOOT	1
CAT6A UTP PATCH PANEL LONGER PULL	CAT 6A	10 FOOT	1
FIBER PATCH PANEL	SINGLE MODE - DUPLEX	1-2 METER	2
CONFIRM LENGTHS AND QUANTITIES PRIOR TO ORDERING. PULL/PATCH SCHEDULE TEMPLATE SHALL BE PROVIDED BY THE JPMC GTI PM AND TC SHALL BE RESPONSIBLE FOR FILLING THE REQUIRED COLUMNS AS DIRECTED. LENGHTS NOTED ARE FOR CONTRACTOR PRICING PURPOSES. EXACT LENGTHS SHALL BE FIELD VERIFIED PRIOR TO PURCHASING.			
FOR RMER/RTR END, THE CONTRACTOR SHALL ORDER PATCH CORD LENGTHS SO THAT NO MORE THAN 1' OF SLACK IS INCLUDED IN EACH PATCH CORD AFTER INSTALLATION. THEREFORE, THE TC SHALL FIELD MEASURE THE REQUIRED LENGTHS. THE LENGTHS SHOWN ABOVE ARE FOR PRICING PURPOSES ONLY.			



REFER TO SHEET TC-501 FOR SPECIFIC OUTLET CONFIGURATIONS.

1 NETWORK DIAGRAM

SCALE: NONE



2 NEW BACKBONE DIAGRAM

SCALE: NONE

CABLE SCHEDULE				
TYPE	NUMBER	DESCRIPTION	MANUFACTURER	MODEL NUMBER
INTERIOR CATEGORY 6 UTP	1A	CATEGORY 6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700210198 (REEL) 700214372 (BOX)
	1B	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700211923 (REEL) 700211931 (BOX)
	1C	CATEGORY 6 PATCH CORD	COMMSCOPE/ SYSTIMAX	CPC3312-03F0##, WHERE ## = LENGTH
INTERIOR CATEGORY 6A U/TP	2A	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105940 (REEL) 760107268 (BOX)
	2B	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105817
	2C	CATEGORY 6A, PATCH CORD	COMMSCOPE/ SYSTIMAX	CPCSSX2-08F0##, WHERE ## = LENGTH
INTERIOR CATEGORY 6A F/UTP	3A	CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE	BERK-TEK	10143424
	3B	CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-##L, WHERE ## = LENGTH
	3C	CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-03L
EXTERIOR CATEGORY 6 U/UTP	4A	CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/ SYSTIMAX	760008888
	4B	CATEGORY 6, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15542-01F0##, WHERE ## = LENGTH
EXTERIOR CATEGORY 6A U/TP	5A	CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/ SYSTIMAX	760178129
	5B	CATEGORY 6A, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15582-01F0##, WHERE ## = LENGTH
FIBER	6A	12-STRAND SINGLE MODE, INDOOR, PLENUM RATED FIBER BACKBONE	CORNING	012E88-33131-29
	6B	HYBRID FIBER (2-STRAND SINGLE MODE) WITH COPPER (TWO 12AWG), OUTDOOR RATED HORIZONTAL CABLE	BERK-TEK	ONE-REACH SERIES
	6C	SINGLE MODE FIBER PATCH CORD - DUPLEX LC	CORNING	787802GD120###M, WHERE ### = LENGTH
	6D	MULTIMODE FIBER PATCH CORD - DUPLEX LC TO LC	CORNING	050502T5116###M, WHERE ### = LENGTH
NOTES	A. FOR PATCH CORDS WITHOUT AN EXACT LENGTH SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE LENGTH SO THERE IS NO MORE THAN 1' OF SLACK ON EACH END. B. ALL CABLE TYPES LISTED ABOVE MAY NOT BE USED ON EVERY PROJECT. C. NON-PLENUM CABLES CAN ONLY BE USED WHEN EITHER THE CABLING IS TOTALLY WITHIN CONDUIT OR THE HVAC SYSTEM HAS A DUCTED AIR RETURN.			

CABLING INSTALLATION GENERAL NOTES:

A. CABLES ROUTED IN WALLS AND COLUMNS SHALL BE IN CONDUIT STUB-UPS. CABLES ROUTED IN FLOOR SLAB SHALL BE IN CONDUIT. ANY CABLE ROUTES THAT ARE NOT IN JPMC OWNED SPACE SHALL BE IN CONDUIT. (TC TO COORDINATE WITH EC FOR CONDUIT QUANTITIES, PLACEMENT AND SIZING).

B. CABLE PATHWAYS ARE SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY. ACTUAL PATHWAYS MAY BE DIFFERENT. TC SHALL VERIFY CABLE PATHWAYS AND RACK TERMINATION LOCATION OF THE CABLES IN THE FIELD PRIOR TO PULLING ANY CABLES.

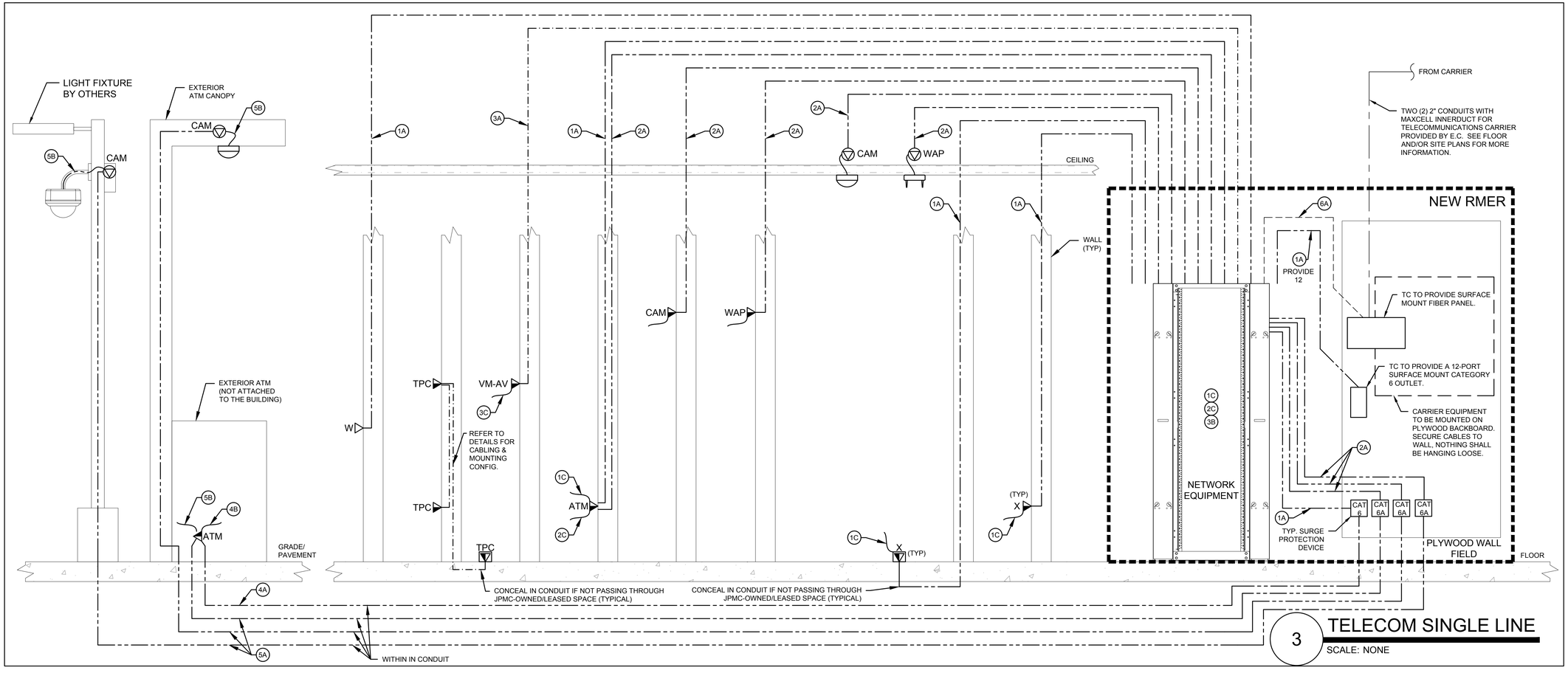
C. THE SINGLE LINE DIAGRAM IS DIAGRAMMATIC FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR DISTANCE CALCULATIONS OR QUANTITY TAKE-OFFS.

D. ALL CABLING RUNS THAT REMAIN WITHIN JPMC AREAS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH ALL JPMC STANDARDS. ALL CABLING THAT IS RUN IN COMMON BUILDING AREAS AND OTHER TENANT SPACES MUST BE IN CONDUIT FOR THE FULL RUN OUTSIDE OF JPMC AREAS SUCH THAT NO JPMC CABLING IS ACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL. JUNCTION AND PULL BOXES AND OTHER ACCESS POINTS REQUIRED IN COMMON AREAS SHALL BE PROVIDED WITH LOCKS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.

E. FOR EACH CAT 6 AND CAT 6A CABLING LEAVING THE BUILDING TO SERVE EXTERIOR ISLAND ATM'S, ATM CANOPY CAMERAS AND EXTERIOR POLE MOUNTED CAMERAS, PROVIDE A SURGE PROTECTION DEVICE WITHIN THE RMER AT THE LOCATION OF SLAB PENETRATION.

CABLE LINETYPE LEGEND

- UTP 4-PAIR CABLE
- F/UTP 4-PAIR CABLE
- CARRIER FIBER OPTIC DEMARC EXTENSION CABLE
- SINGLE MODE FIBER OPTIC BACKBONE CABLE
- HYBRID MULTIMODE FIBER OPTIC & 2-CONDUCTOR 12 AWG COPPER HORIZONTAL CABLE



3 TELECOM SINGLE LINE

SCALE: NONE

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

keyplan

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seal

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KEVIN BRENNAN
REG NO 166050
EXPIRES 12-31-23
RCDD

issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location **JP MORGAN CHASE & CO**
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

designed	KB	date	01.19.2021	drawn	KB
checked	CC	scale	AS NOTED		

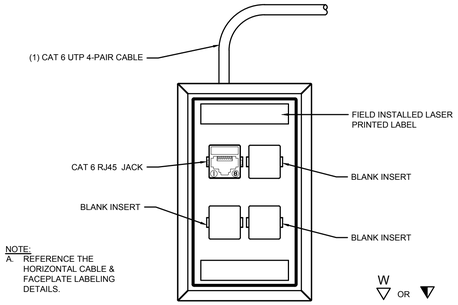
title

TELECOM SINGLE LINE DIAGRAM

job no. OVP-38200P368999

sheet

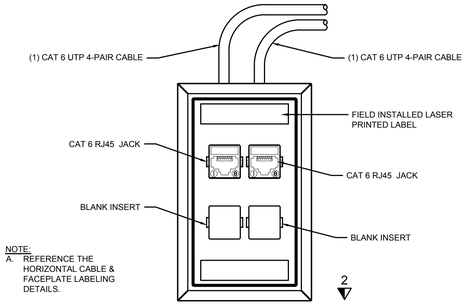
TC-301



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

WALL MOUNTED PHONE
TYPICAL FLUSH MOUNT FACEPLATE

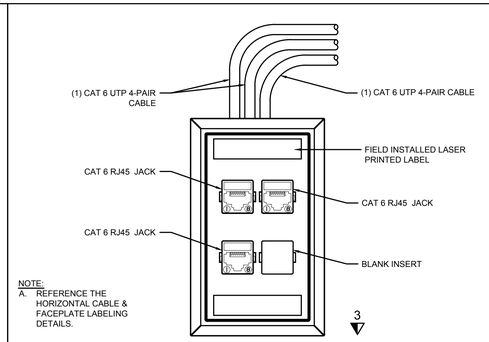
1 SCALE: NONE



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

2-PORT
TYPICAL FLUSH MOUNT FACEPLATE

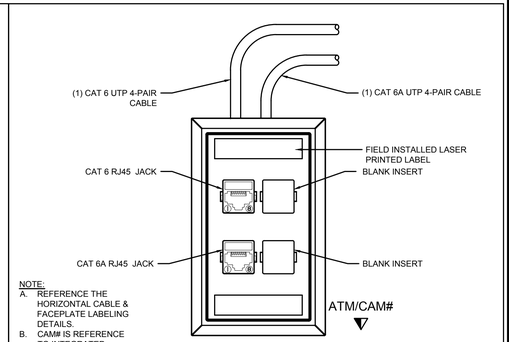
2 SCALE: NONE



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

3-PORT
TYPICAL FLUSH MOUNT FACEPLATE

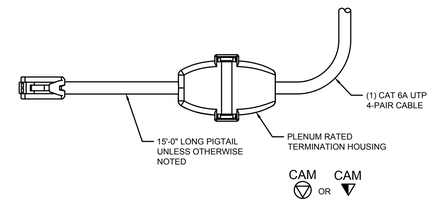
3 SCALE: NONE



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.
B. CAM# IS REFERENCE TO INTEGRATED CAMERA WITHIN ATM

ATM
TYPICAL FLUSH MOUNT FACEPLATE

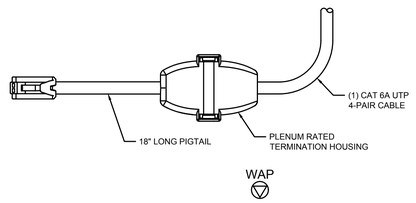
4 SCALE: NONE



NOTE:
A. CEILING CONNECTOR ASSEMBLY MUST BE SECURELY MOUNTED WITHIN THE BACKBOX.
B. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.
C. PROVIDE 18" LONG PIGTAIL ASSEMBLY WHEN MOUNTED WITHIN A BACKBOX, SUCH AS LIGHT POLE MOUNTED CAMERAS ON THE SITE AND DRIVE UP ATM OVERVIEW CANOPY CAMERAS.

TYPICAL OUTLET FOR SECURITY CAMERAS

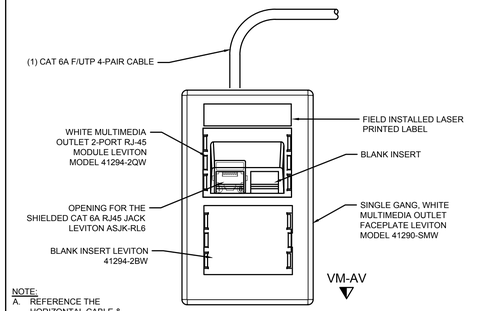
5 SCALE: NONE



NOTE:
A. CEILING CONNECTOR ASSEMBLY MUST BE SECURELY MOUNTED WITHIN THE BACKBOX.
B. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

TYPICAL OUTLET FOR WAP DEVICES

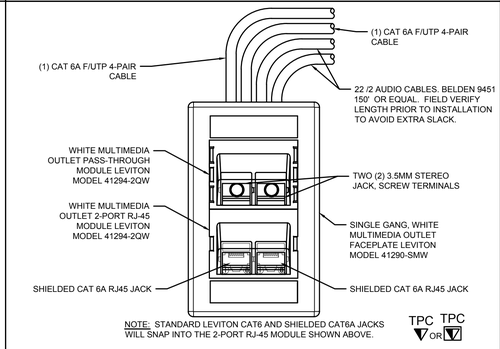
6 SCALE: NONE



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

VIDEO MONITOR
TYPICAL FLUSH MOUNT FACEPLATE

7 SCALE: NONE



NOTE: STANDARD LEVITON CAT6 AND SHIELDED CAT6A JACKS WILL SNAP INTO THE 2-PORT RJ-45 MODULE SHOWN ABOVE.

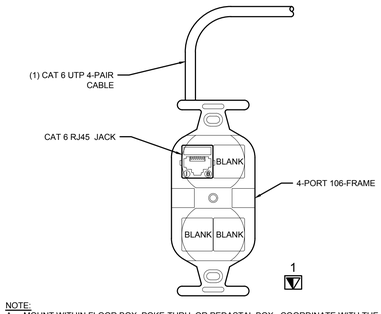
TYPICAL FLUSH MOUNT FACEPLATE
TELEPRESENCE CONTROL OUTLET

8 SCALE: NONE

WORK AREA OUTLET SCHEDULE				
TYPE	DESCRIPTION	COLOR	MANUFACTURER	PART NUMBER
STANDARD JPMC NETWORK WORK AREA OUTLETS	CATEGORY 6 JACK	GRAY	COMMSCOPE/ SYSTIMAX	700206733
	ATM CATEGORY 6 JACK	ORANGE	COMMSCOPE/ SYSTIMAX	700206683
	FURNITURE MOUNTED FACEPLATE, 3-PORT	WHITE	COMMSCOPE/ SYSTIMAX	106650898
	FURNITURE MOUNTED FACEPLATE, 4-PORT	WHITE	COMMSCOPE/ SYSTIMAX	760118232
	WALL MOUNTED FACEPLATE, 1-PORT	WHITE	COMMSCOPE/ SYSTIMAX	108258427
	WALL MOUNTED FACEPLATE, 2-PORT	WHITE	COMMSCOPE/ SYSTIMAX	108168469
	WALL MOUNTED FACEPLATE, 4-PORT	WHITE	COMMSCOPE/ SYSTIMAX	108168543
	FLOOR BOX MOUNTED FACEPLATE, 4 PORTS (106 FRAME) - COORDINATE WITH FLOOR BOX MANUFACTURER	WHITE	COMMSCOPE/ SYSTIMAX	106622285
	2-PORT NON-PLENUM RATED SURFACE MOUNT BOX	WHITE	COMMSCOPE/ SYSTIMAX	107984056
WAP & CAMERA OUTLETS	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" PIGTAIL	WHITE	COMMSCOPE/ SYSTIMAX	760235592
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" PIGTAIL	WHITE	COMMSCOPE/ SYSTIMAX	C01SJ02-88F015
	WAP CATEGORY 6A JACK	WHITE	COMMSCOPE/ SYSTIMAX	760092429
	CAMERA (INTEGRAL TO ATM LOCATION ONLY) CATEGORY 6A JACK	GREEN	COMMSCOPE/ SYSTIMAX	760092403
AUDIO-VIDEO OUTLETS (HDBASE-T)	CATEGORY 6A SHIELDED JACK	BLUE	LEVITON	6ASJK-RL6
	3.5mm STEREO JACK	WHITE	LEVITON	40839-SWS
	WALL MOUNTED MULTIMEDIA FACEPLATE	WHITE	LEVITON	41290-SMW
	MULTIMEDIA OUTLET 2-PORT RJ-45 MODULE INSERT	WHITE	LEVITON	41294-2QW

STRUCTURED CABLING OUTLET SCHEDULE

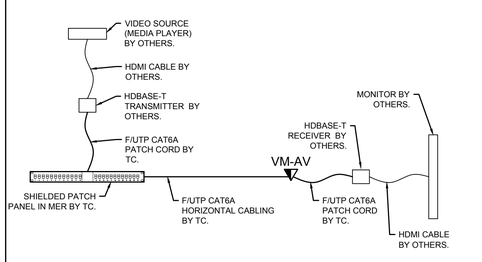
12 SCALE: NONE



NOTE:
A. MOUNT WITHIN FLOOR BOX, POKE-THRU, OR PEDASTAL BOX. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
B. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

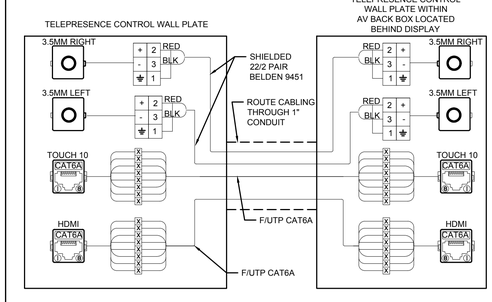
TYPICAL FLOOR MOUNTED OUTLET

9 SCALE: NONE



HDBASE-T CABLING SCHEMATIC
VIDEO MONITOR CABLING INSTALLATION DETAIL

10 SCALE: NONE



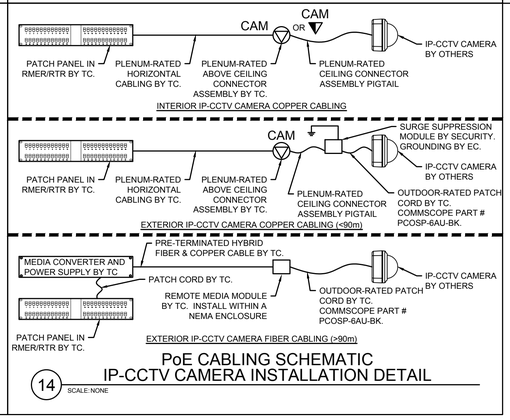
TELEPRESENCE CONTROL OUTLET
TERMINATION

11 SCALE: NONE

COLOR CODING CHART	
CAT 6 CABLE	GRAY
CAT 6 PATCH CORD - STANDARD WALL OUTLET	GRAY
CAT 6 PATCH CORD - ATM WALL OUTLET	GRAY
CAT 6 CABLE FOR INNOVATION LAB NETWORK	GRAY
CAT 6A CABLE	WHITE
CAT 6A PATCH CORD - WIRELESS ACCESS POINT	WHITE
CAT 6A PATCH CORD - IP SECURITY CAMERA	WHITE
CAT 6A SHIELDED CABLE	BLUE
CAT 6A SHIELDED PATCH CORD -HDBASE-T	BLUE

STRUCTURED CABLING COLOR CODING

13 SCALE: NONE



PoE CABLING SCHEMATIC
IP-CCTV CAMERA INSTALLATION DETAIL

14 SCALE: NONE

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG NO 166050
EXPIRES 12-31-23
RODD

issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

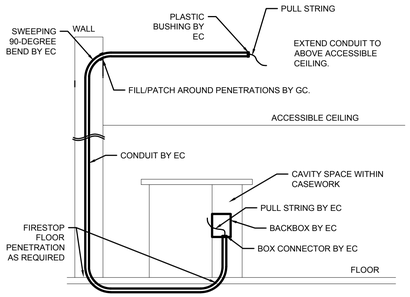
site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

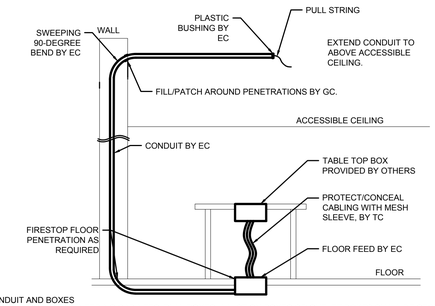
designed	KB	date	01.19.2021	drawn	KB
checked	CC	scale	AS NOTED		

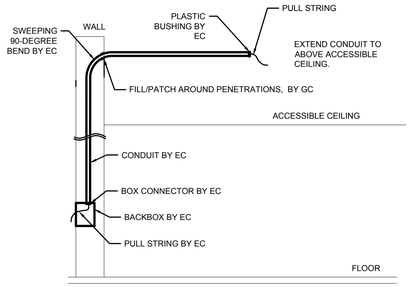
title
TELECOM TERMINATION DETAILS

job no.
OVP-38200P368999

sheet
TC-302







CONDUIT AND BOXES

A. ALL CONDUITS ENTERING CABINETS, PULL BOXES, JUNCTION BOXES OR OUTLET BOXES SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

B. THE ENDS OF ALL CONDUITS UTILIZED FOR COMMUNICATIONS CABLING SHALL BE PROVIDED WITH NYLON PUSH-ON BUSHINGS AND A PULL STRING PROVIDED THROUGHOUT.

C. ALL CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO (2) 90 DEGREE BENDS PER CONDUIT RUN. WHEN MORE BENDS ARE NECESSARY IN A SINGLE RUN A PULL BOX SHALL BE INSTALLED. PULL BOXES SHALL NOT BE INSTALLED IN PLACE OF A 90 DEGREE BEND. PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'.

D. ALL CONDUITS, EXCEPT IN CONCRETE SLAB OR EARTH, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE COLUMN LINES OF THE BUILDING.

E. CONDUITS THAT ARE NOT INSTALLED PLUMB AND ROUTED PERPENDICULAR TO THE STRUCTURAL COLUMN SUPPORTS OF THE BUILDING WILL NOT BE ACCEPTED.

F. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS.

G. ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED BY USE OF PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE A RIGID INSTALLATION. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READILY REMOVAL OF OTHER PIPE FOR REPAIRS.

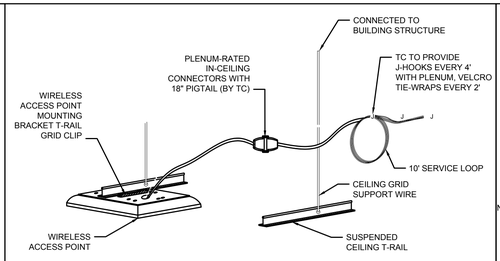
H. UNLESS OTHERWISE NOTED, INSTALL ALL OUTLET BOXES VERTICALLY.

I. INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS INDICATED ON THE PLANS. COMMUNICATION OUTLET BOXES ADJACENT TO ELECTRIC OUTLETS SHALL BE INSTALLED AT THE SAME MOUNTING HEIGHT. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

PULL BOXES

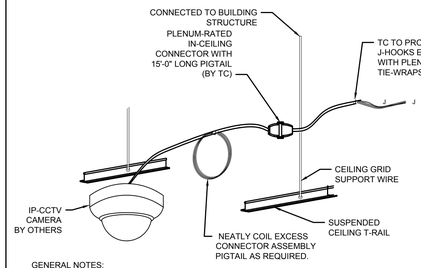
A. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS.
B. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.
C. ALL CONDUITS ENTERING THE PULL BOX SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.
D. PULL BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT PROVIDES EASY ACCESS INTO THE INSTALLED ENCLOSURE THROUGH THE REMOVABLE COVER.
E. UNDER NO CIRCUMSTANCE SHALL A PULL BOX BE INSTALLED WITH THE COVER FACING UP. UNLESS CONDUITS ENTERING THE BOX MUST BE STACKED VERTICALLY, ALL PULL BOXES SHALL BE INSTALLED WITH THE COVER FACING DOWN.
F. PULL BOX LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE BETWEEN THE PULL BOX COVER AND ANY OTHER OBJECT. THE MINIMUM CLEARANCE REQUIRED SHALL BE SIX TIMES THE DIAMETER OF THE LARGEST CONDUIT ENTERING THE PULL BOX.

1 OUTLET ROUGH-IN REQUIREMENTS
SCALE:NONE



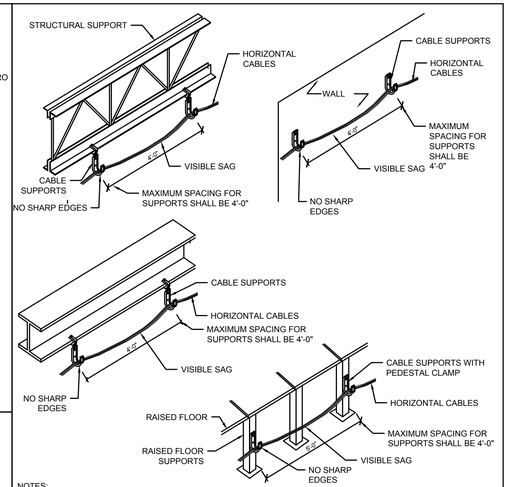
NOTES:
A. WAPs FURNISHED BY JPMC, INSTALLED BY TC.
B. TC SHALL DOCUMENT MAC ADDRESS AND WAP ID NUMBER FOR AS-BUILTS.
C. PATCH WAP PORTS LABELED: POE/mGig & CONSOLE

2 WAP DROP CEILING INSTALLATION DETAIL
SCALE:NONE



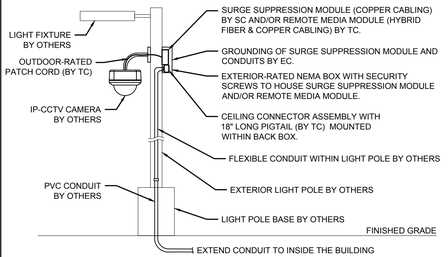
GENERAL NOTES:
A. IP-CCTV CAMERA FURNISHED AND INSTALLED BY OTHERS.

3 INTERIOR ACCESSIBLE CEILING MOUNTED IP-CCTV CAMERA INSTALLATION DETAIL
SCALE:NONE



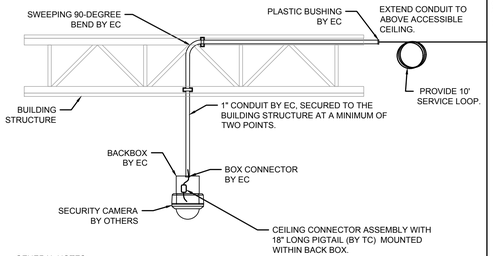
NOTES:
1. TELECOMMUNICATION CABLES SHALL NOT BE SUPPORTED FROM DUCTWORK, SPRINKLER PIPING, WATER PIPING, WASTE PIPING OR ELECTRICAL CONDUIT. TELECOMMUNICATION CABLES SHALL NOT BE ROUTED ABOVE STRUCTURAL STEEL.
2. TELECOMMUNICATION CABLES SHALL RUN PARALLEL OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE AND SHALL NOT RUN DIAGONALLY ACROSS CEILING SPACE.
3. TELECOMMUNICATION CABLE SUPPORTS SHALL BE PROPERLY ANCHORED TO BUILDING SUPPORT STRUCTURE LOCATED THRU-OUT IN LOCATIONS THAT CABLE TRAY IS NOT USED.
4. TELECOMMUNICATION CABLES SHALL BE INSTALLED WITH AT LEAST 3" OF CLEAR VERTICAL SPACE ABOVE ANY COMPONENT OF THE SUSPENDED CEILING.
5. J-HOOKS SHALL BE INSTALLED WITHIN (1) ONE FOOT OF THE BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND WITHIN (1) ONE FOOT OF ANY BEND GREATER THAN 60 DEGREES.
6. ALL J-HOOKS SHALL BE ATTACHED SECURELY TO THE CEILING JOISTS OR CONCRETE DECK ABOVE UTILIZING THE MANUFACTURER'S RECOMMENDED HARDWARE AND INSTALLATION PRACTICES. CONTRACTOR SHALL UTILIZE UNISTRUT AND THREADED ROD ASSEMBLIES TO MAINTAIN THE (4) FOUR FOOT CENTER TO CENTER REQUIREMENT BETWEEN CEILING JOIST MEMBERS AS REQUIRED.
7. COMPONENTS:
   a. J-HOOKS: COPPER, CADDY, OR PANDUIT
   b. SCREW-ON BEAM CLAMP: PANDUIT JP2SBC50RB-L20
   c. HAMMER-ON BEAM CLAMP: PANDUIT JP2HBC25RB-L20
   d. PURLIN CLIP FOR ANGLED FLANGES: PANDUIT JP1312P-L20
   e. PURLIN CLIP FOR VERTICAL FLANGES: PANDUIT JP131CP-L20
   f. UNDER RAISED FLOOR CLAMP: PANDUIT JP131UF100-L20

4 OPEN CABLE SUPPORT DETAIL
SCALE:NONE



GENERAL NOTES:
A. IP-CCTV CAMERA FURNISHED AND INSTALLED BY OTHERS.
B. ALL PATCH CABLES SHALL BE OUTDOOR-RATED.
C. IP-CCTV CAMERA MOUNTING HEIGHT, NEMA BOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

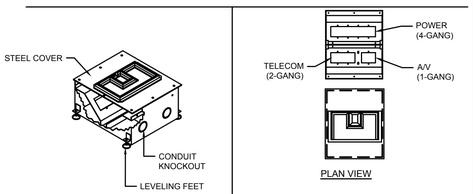
5 EXTERIOR LIGHT-POLE MOUNTED IP-CCTV CAMERA INSTALLATION DETAIL
SCALE:NONE



GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED BY OTHERS.
B. EXTEND THE CONDUIT TO THE RMER.
C. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.
D. THE BOTTOM OF THE BACKBOX SHALL BE 2" LOWER THAN THE BOTTOM OF THE LIGHT FIXTURES OFF OF THE FINISHED FLOOR.

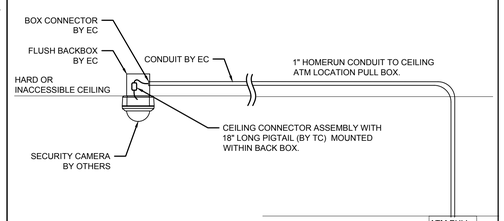
6 OPEN-TO-STRUCTURE CEILING SECURITY CAMERA INSTALLATION DETAIL
SCALE:NONE

CONDUIT NOTES:
1. PROVIDE 1" TELECOM CONDUIT FOR UP TO (4) CAT 6 CABLES (BY EC)
2. PROVIDE 1.25" TELECOM CONDUIT FOR UP TO (8) CAT 6 CABLES (BY EC)



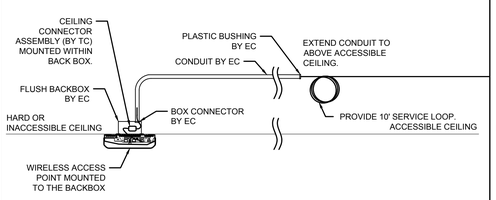
NOTES:
1. FLOOR BOX PROVIDED BY OTHERS

7 STANDARD FLOOR BOX DETAIL
SCALE:NONE



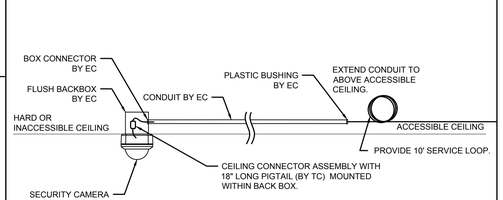
GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED BY OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED. TC TO FIELD VERIFY LENGTH REQUIRED BASED ON CONDUIT INSTALLATION.
C. EXTEND THE CONDUIT TO THE RMER.
D. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

8 ATM CANOPY MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE:NONE



NOTES:
A. WAPs FURNISHED BY JPMC, INSTALLED BY TC.
B. TC SHALL DOCUMENT MAC ADDRESS AND WAP ID NUMBER FOR AS-BUILTS.
C. ALL PATCH CABLES SHALL BE PLENUM RATED.
D. EC SHALL EXTEND THE CONDUIT TO THE RMER.
E. PATCH WAP PORTS LABELED: POE/mGig & CONSOLE

9 HARD-CEILING MOUNTED WAP INSTALLATION DETAIL
SCALE:NONE



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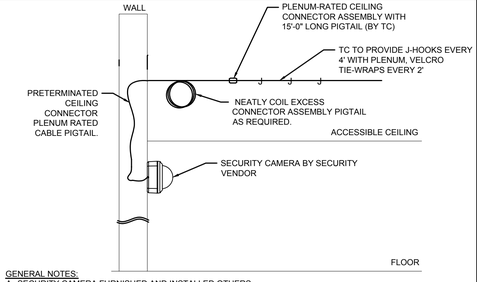
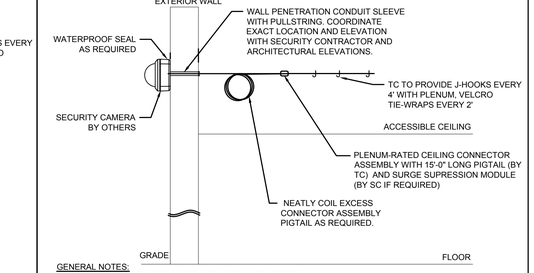
B. PATCH CABLE SHALL BE PLENUM RATED. TC TO FIELD VERIFY LENGTH REQUIRED BASED ON CONDUIT INSTALLATION.
C. EXTEND THE CONDUIT TO THE RMER.
D. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

10 HARD-CEILING MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE:NONE



GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED BY OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED.
C. WHERE A HARD CEILING IS PRESENT NEAR THE CAMERA LOCATION, EC SHALL PROVIDE A 1" FLEXIBLE CONDUIT FROM THE WALL CAVITY TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE RMER/RTR SERVING THE OUTLET.
D. CAMERA MOUNTING HEIGHT, BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

11 INTERIOR WALL MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE:NONE



GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED BY OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED.
C. WHERE A HARD CEILING IS PRESENT NEAR THE CAMERA LOCATION, EC SHALL PROVIDE A 1" FLEXIBLE CONDUIT FROM THE WALL CAVITY TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE RMER/RTR SERVING THE OUTLET.
D. CAMERA MOUNTING HEIGHT, BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

12 EXTERIOR WALL MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE:NONE

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG. NO. 166050
EXPIRES 12-31-23
RCDD

issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

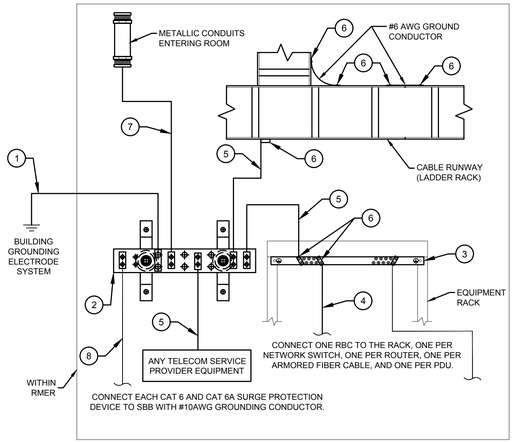
designed	KB	date	01.19.2021	drawn	KB
checked	CC	scale	AS NOTED		

title

TELECOM INSTALLATION DETAILS

job no.
OVP-38200P368999

sheet
TC-401



DETAIL NOTES:

A. DEFINITIONS:
- A.1. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC)
- A.2. SECONDARY BONDING BUSBAR (SBB)
- A.3. RACK BONDING BUSBAR (RBB)
- A.4. RACK BONDING CONDUCTORS (RBC)
- A.3. TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC)

B. THE TBC SHALL BE SIZED BASED ON THE CONDUCTOR'S LENGTH. THE CONDUCTOR SHALL BE A STRANDED GROUNDING CONDUCTOR WITH A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END. PROVIDE A #6AWG FOR LENGTHS UP TO 100FT, #4AWG FOR LENGTHS GREATER THAN 100FT UP TO 200FT, #2AWG FOR LENGTHS GREATER THAN 200FT UP TO 400FT, #1AWG FOR LENGTHS GREATER THAN 400FT UP TO 500FT, #1/0AWG FOR LENGTHS GREATER THAN 500FT UP TO 600FT, #2/0AWG FOR LENGTHS GREATER THAN 600FT UP TO 700FT, #3/0AWG FOR LENGTHS GREATER THAN 700FT UP TO 800FT, AND #4/0AWG FOR LENGTHS GREATER THAN 800FT.

C. THE TEBC & THE RBC SHALL BE A MINIMUM OF A #6-AWG STRANDED GROUNDING CONDUCTOR AND A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END.

D. THE CONTRACTOR IS RESPONSIBLE FOR BONDING SECTIONS OF CABLE TRAY TOGETHER UTILIZING #6-AWG GROUNDING (EARTHING) STRAPS, THEN INSTALLING A #6-AWG GROUNDING (EARTHING) CONDUCTOR BETWEEN THE TRAY AND THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.

E. IF GROUNDING (EARTHING) MUST BE APPLIED TO A LOCATION WHERE BARE METAL IS NOT EXPOSED, THE COVERING (E.G. PAINT) SHALL BE FULLY REMOVED TO EXPOSE BARE METAL AND FACILITATE BONDING. AT EACH SUCH BONDING POINT, NO GREATER THAN 12MM (.5IN) AND NO LESS THAN 6MM (.25IN) OF EXPOSED METAL SHALL REMAIN AFTER BONDING IS COMPLETED.

F. AFTER BOND HAS BEEN MADE, TC SHALL APPLY ANTI-OXIDANT JOINT COMPOUND OVER ANY AREA THAT BARE METAL IS EXPOSED BECAUSE OF SCRAPING.

G. RACK BONDING BUSSBARS (RBB) SHALL BE INSTALLED IN EACH RACK TO GROUND (EARTH) MULTIPLE PIECES OF EQUIPMENT OR PATCH PANELS FOR SHIELDED CABLING. THE RBB MUST BE BONDED TO THE RACK. THEN TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTORS (TEBC) CONNECT THE RBB ON EACH RACK, TO THE SBB IN THE ROOM.

H. THE T.C. IS RESPONSIBLE FOR FURNISHING AND INSTALLING A RACK BONDING BUSSBAR (RBB) AT ALL NEW EQUIPMENT RACKS AND CABINETS PER DESIGN DOCUMENTS. EACH RBB SHALL BE BONDED TO THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.

I. DAISY CHAIN FROM ONE RBB TO NEXT RBB NOT PERMITTED.

J. A #6-AWG CONDUCTOR SHALL BE BONDED TO EACH RBB, THEN COILED AND STORED NEATLY AT EACH RACK FOR FUTURE USE.

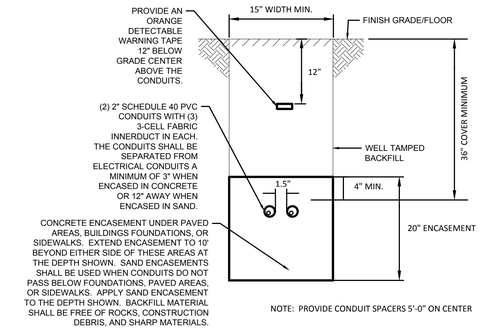
K. WHERE ARMORED CABLE IS DEPLOYED, IT SHALL BE BONDED TO GROUND (EARTH) AT ONE END IN ACCORDANCE WITH AHJ AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

L. MATERIALS SHALL BE AS LISTED OR SHALL BE EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MEETING THE INTENT AND QUALITY LEVEL OF THIS SPECIFICATION. MATERIALS MUST BE COMPATIBLE WITH THE END TO END SOLUTION BEING PROPOSED. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR BY RFI'S, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE.

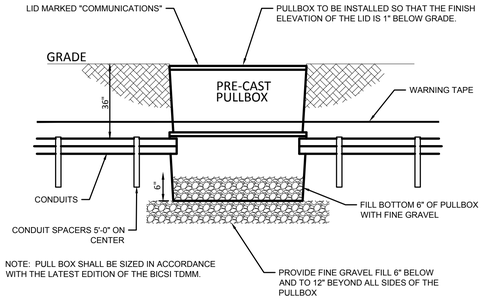
M. PROVIDE BONDING OF ALL METAL CONDUITS ENTERING THE ROOM. PROVIDE GROUNDING BUSHING AS REQUIRED FOR CONNECTION.

GROUNDING COMPONENT SCHEDULE				
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	PROVIDED BY
1	TBC	N/A	N/A	EC
2	SBB	PANDUIT	GB2B0304TPI-1	EC
3	RBB	PANDUIT	RGRB19U	TC
4	RBC	PANDUIT	RGREJ696Y	TC
5	TEBC	PANDUIT	GJS6180U	TC
6	TWO HOLE LONG BARREL LUGS	PANDUIT	LCC6 SERIES	TC
7	TEBC	PANDUIT	GJS6180U	EC
8	SURGE PROTECTION BONDING	N/A	N/A	TC

1 TELECOMMUNICATIONS GROUNDING SCHEMATIC
SCALE: NONE

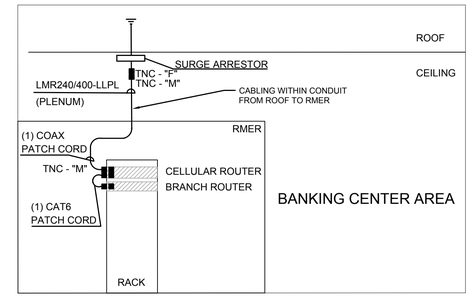


2 TELECOMMUNICATIONS SERVICE ENTRANCE DUCT BANK DETAIL
SCALE: NONE



NOTE: PULL BOX SHALL BE SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE BICSI TDMM.

3 TELECOMMUNICATIONS SERVICE IN-GRADE PULL BOX DETAIL
SCALE: NONE

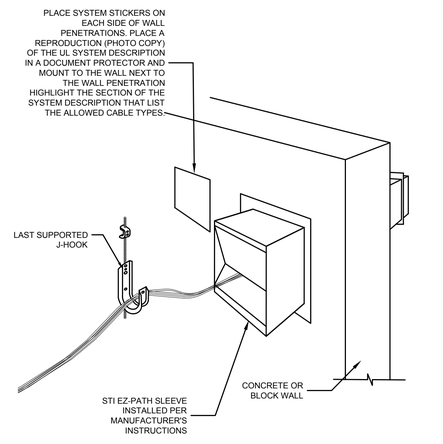


NOTE:
1. DETAIL IS SHOWN FOR REFERENCE ONLY. WIRELESS CELLULAR SYSTEM INFRASTRUCTURE WILL BE PROVIDED BY THIRD PARTY CONTRACTOR.
2. CODE REQUIRES THE OUTDOOR RATED COAX TO THE ROOF ANTENNA BE TRANSITIONED WITHIN 50 FEET OF PENETRATING THE ROOF, TO A PLENUM RATED COAX.
3. SURGE ARRESTOR TO BE LOCATED AS CLOSE AS POSSIBLE TO CEILING PENETRATION.
4. VERIFY ANTENNA, SURGE ARRESTOR, AND CELLULAR ROUTER CONNECTION TYPES PRIOR TO TERMINATING THE COAX CABLES.
5. ALL FIELD TERMINATED CABLES ARE TO BE TESTED

MAJOR MATERIALS:

1. OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)
2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS
3. CEILING MOUNT BRACKET (JDTECK) FOR INDOOR PANEL ANTENNAL INSTALLS
4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

4 ROOF ANTENNA MOUNTING OPTION
SCALE: NONE



NOTES:

A. BEFORE BEGINNING INSTALLATION, VERIFY THAT SUBSTRATE CONDITIONS PREVIOUSLY INSTALLED UNDER OTHER SECTIONS ARE ACCEPTABLE FOR INSTALLATION OF FIRESTOPPING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND TECHNICAL INFORMATION.

B. SURFACES SHALL BE FREE OF DIRT, GREASE, OIL, SCALE, LAITANCE, RUST, RELEASE AGENTS, WATER REPELLANTS, AND ANY OTHER SUBSTANCES THAT MAY INHIBIT OPTIMUM ADHESION.

C. PROVIDE MASKING AND TEMPORARY COVERING TO PROTECT ADJACENT SURFACES.

D. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

E. GENERAL: INSTALL SYSTEMS IN ACCORDANCE WITH PERFORMANCE CRITERIA AND IN ACCORDANCE WITH THE CONDITIONS OF TESTING AND CLASSIFICATION AS SPECIFIED IN THE PUBLISHED DESIGN.

F. MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF PRODUCTS.

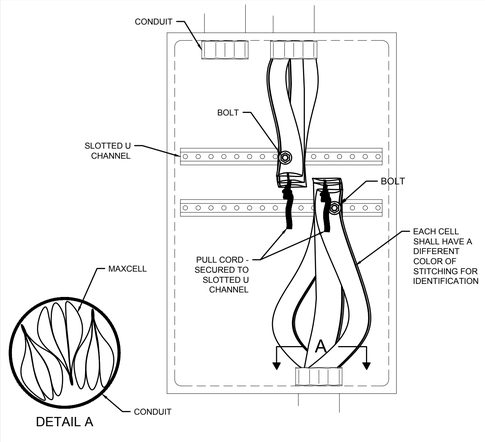
G. KEEP AREAS OF WORK ACCESSIBLE UNTIL INSPECTION BY AUTHORITIES HAVING JURISDICTION.

H. WHERE DEFICIENCIES ARE FOUND, REPAIR FIRESTOPPING PRODUCTS SO THEY COMPLY WITH REQUIREMENTS.

I. REMOVE EQUIPMENT, MATERIALS, AND DEBRIS, LEAVING AREA IN UNDAMAGED, CLEAN CONDITION.

J. CLEAN ALL SURFACES ADJACENT TO SEALED OPENINGS TO BE FREE OF EXCESS FIRESTOPPING MATERIALS AND SOILING AS WORK PROGRESSES.

5 CABLE BUNDLE THROUGH PENETRATION DETAIL FOR WALL CONSTRUCTION
SCALE: NONE

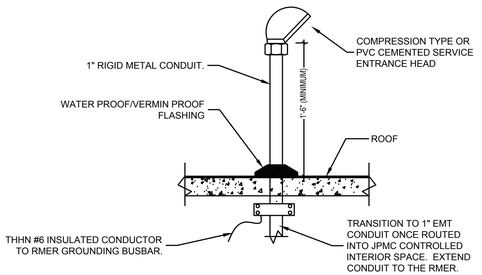


NOTES:
1. FOR EACH 2 INCH CONDUIT, INSTALL (1) 2 IN - 3 CELL MAXCELL INNERDUCT.
2. UNLESS WAIVED IN WRITING BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL ENGAGE MANUFACTURER PRIOR TO THE PULL TO ASSURE RECOMMENDED INSTALLATION METHODS ARE FOLLOWED.
3. A BALL BEARING SWIVEL (BULL NOSE SWIVEL) MUST ALWAYS BE USED BETWEEN THE PULL ROPE AND MAXCELL. FAILURE TO DO SO MAY RESULT IN PULL ROPE OR TAPE INDUCING TWIST, CAUSING THE MAXCELL TO TWIST EXCESSIVELY AND MAY MAKE IT DIFFICULT TO PULL CABLE.
4. CELL ASSIGNMENTS MUST BE DOCUMENTED AT EACH APPEARANCE OF THE INNER DUCT.
5. EXCEPT WHERE NOTED, CONDUIT THAT IS 50 MM (2 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 2" 3-CELL SOFT DUCT QUANTITY 1. CONDUIT THAT IS 75 MM (3 IN) SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2; AND 100 MM (4 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY
6. WHEN 3" 3-CELL SOFT DUCT IS TOO SMALL TO ACCOMMODATE LARGE DIAMETER CABLES AND LARGE O.D. FACTORY TERMINATED PULLING GRIPS, CONDUIT THAT IS 75 MM (3 IN) SHOULD BE EQUIPPED WITH 4" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 1; AND 100 MM (4 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 4" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2.
7. THE OUTSIDE DIAMETER OF PULLING GRIPS ASSOCIATED WITH FACTORY TERMINATED FIBER TRUNK CABLES WILL AFFECT THE SELECTION OF SOFT DUCT. SEE TABLE 1 FOR DETAIL,

TABLE 1 - SOFT DUCT SIZING GUIDELINE

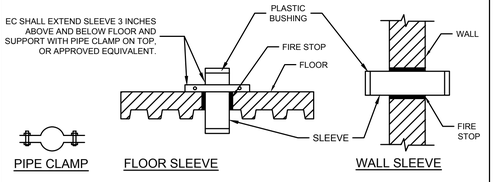
MAXIMUM CABLE/GRIP DIAMETER PER CELL MM(IN)	CELL SIZE
18 (.7)	2"
26 (1.03)	3"
34 (1.34)	4"
>34 (1.34)	SEE OPR

6 TYPICAL MAXCELL 2", 3-CELL INNERDUCT
SCALE: NONE



NOTES:
1. FOR REFERENCE ONLY. EC SHALL COORDINATE INSTALLATION METHOD WITH GC AND ROOF CONTRACTOR AND APPROVAL FROM BUILDING OWNER/MANAGEMENT.

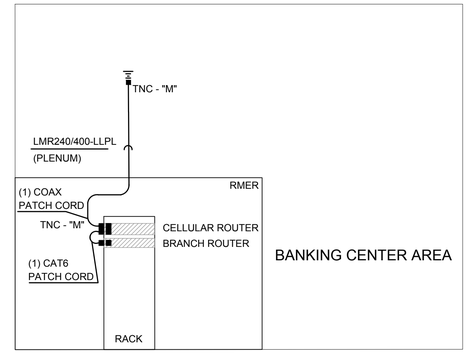
7 ROOF CONDUIT WEATHERHEAD DETAIL
SCALE: NONE



NOTES:
1. CLEAN CORE DRILL, ONE SIZE LARGER THAN SLEEVE.
2. PACK VOID BETWEEN SLEEVE AND FLOOR WITH NON-SHRINK, WATER TIGHT, APPROVED FIRE RATED MATERIAL.
3. INSTALL PLASTIC BUSHINGS AT BOTH ENDS.

LOCATION: TYPICAL FOR ALL RETAIL TELECOM ROOMS / RETAIL MAIN EQUIPMENT ROOMS, SEE DRAWINGS FOR ALL PENETRATION LOCATIONS AND FIELD COORDINATE

8 TYPICAL FLOOR AND WALL SLEEVE PENETRATION DETAILS
SCALE: NONE



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4. DIRECTIONAL (PANEL OR LOG PERIODIC STYLE) ANTENNAS (JPMC SUPPLIED)
5. LMR-240 FLEXIBLE LOW LOSS COMMUNICATIONS COAX OR LMR-400 FLEXIBLE LOW LOSS COMMUNICATIONS COAX
6. TNC CONNECTORS (TO ROUTER), N CONNECTORS TO ANTENNA

9 CEILING ANTENNA MOUNTING OPTION
SCALE: NONE

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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no	date	issue	by
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site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
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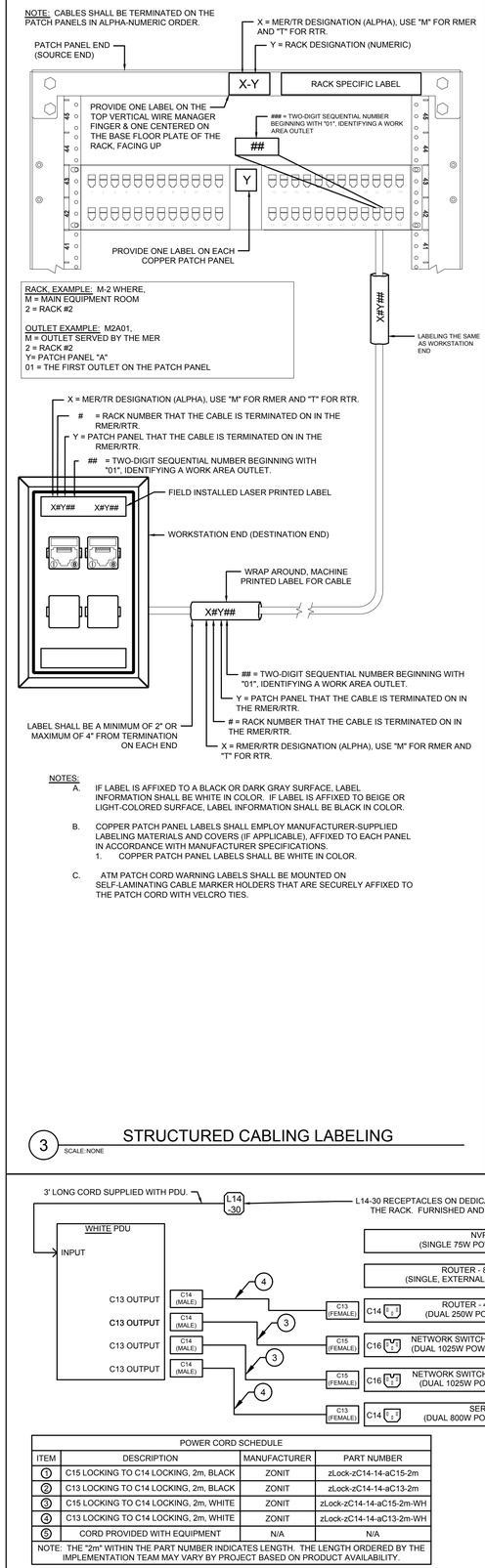
designed	KB	date	01.19.2021	drawn	KB
checked	CC	scale	AS NOTED		

title

TELECOM INSTALLATION DETAILS

job no.
OVP-38200P368999

sheet
TC-402



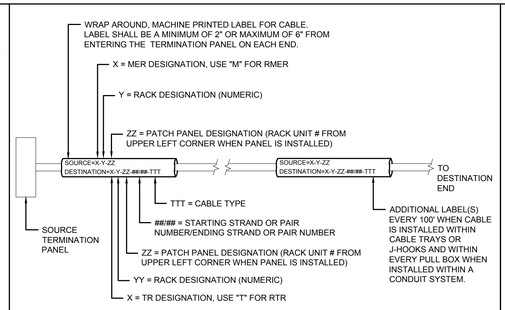
NOTES:

A. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.

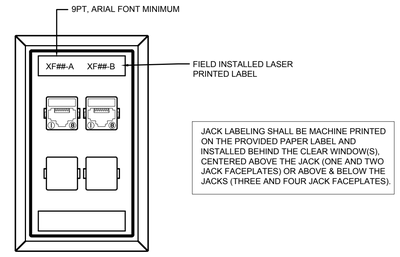
B. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
1. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.

C. ATM PATCH CORD WARNING LABELS SHALL BE MOUNTED ON SELF-LAMINATING CABLE MARKER HOLDERS THAT ARE SECURELY AFFIXED TO THE PATCH CORD WITH VELCRO TIES.

3 STRUCTURED CABLING LABELING
SCALE: NONE

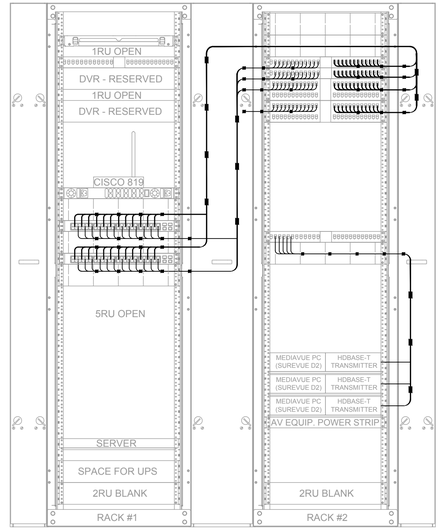


1 BACKBONE CABLE LABELING
SCALE: NONE



2 FACEPLATE LABELING CONFIGURATION
SCALE: NONE

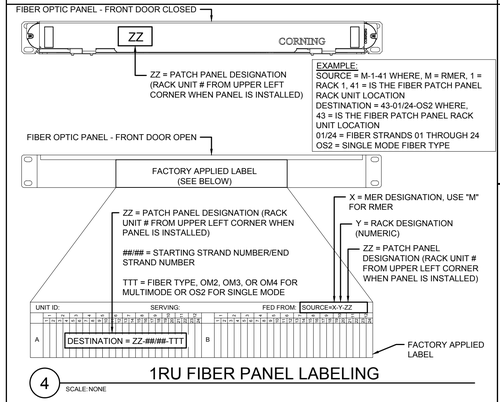
(GRID OUTLET NUMBERING)



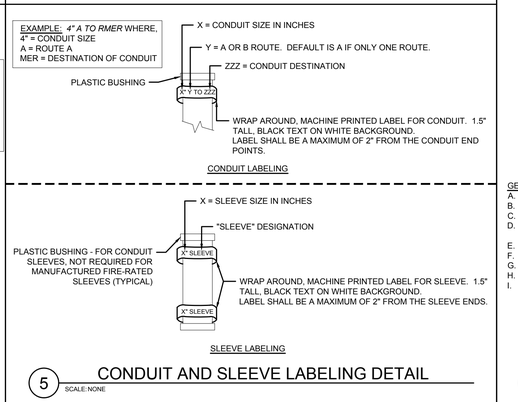
GENERAL PATCH CORD DRESSING NOTES:

A. PATCH QUANTITIES SHALL BE CONFIRMED PRIOR TO ORDERING.
B. DETERMINATION OF PATCH CORD LENGTHS IS THE RESPONSIBILITY OF THE LOW VOLTAGE CONTRACTOR.
C. PATCH CORDS SHALL BE INSTALLED WITH MINIMAL SLACK.
D. PATCHING OF WIRELESS ACCESS POINTS AND SECURITY (CCTV) CAMERAS SHALL BE EVENLY DISTRIBUTED ON THE SWITCH(ES).
E. PATCH CORDS SHALL BE BUNDLED WITH VELCRO WITHIN VERTICAL WIRE MANAGERS.
F. PATCH CORDS SHALL BE BUNDLED WITH VELCRO FOR EACH SWITCH.
G. PATCH CORDS SHALL BE TIED BACK WITHIN VERTICAL WIRE MANAGERS.
H. ELEVATION SHOULD NOT BE USED FOR LENGTH TAKE OFF.
I. ELEVATION DOES NOT REPRESENT ACTUAL FIELD CONDITION AND SHOULD BE USED FOR REFERENCE INTENT ONLY.

6 TYPICAL PATCH CORD DRESSING
SCALE: NONE



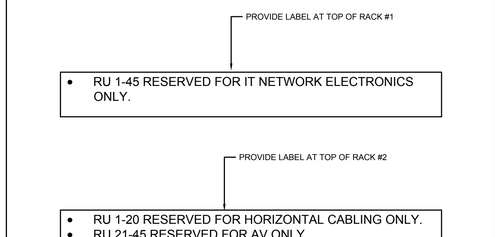
4 1RU FIBER PANEL LABELING
SCALE: NONE



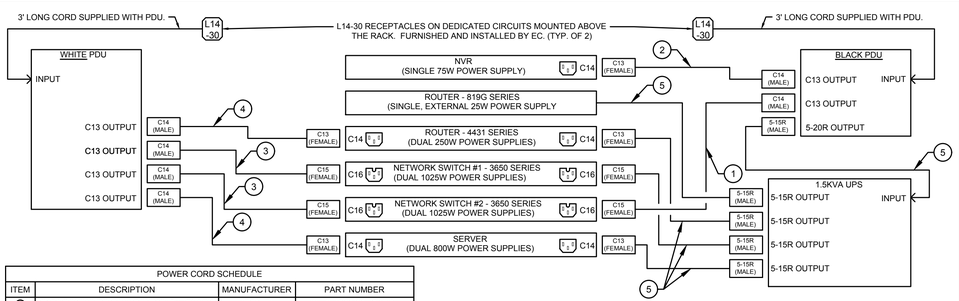
CONDUIT LABELING

SLEEVE LABELING

5 CONDUIT AND SLEEVE LABELING DETAIL
SCALE: NONE



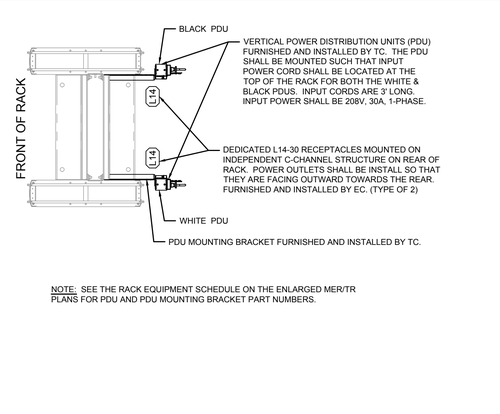
7 RACK SPECIFIC LABELING
SCALE: NONE



POWER CORD SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER
1	C15 LOCKING TO C14 LOCKING, 2m, BLACK	ZONIT	zLock-zC14-14-aC15-2m
2	C13 LOCKING TO C14 LOCKING, 2m, BLACK	ZONIT	zLock-zC14-14-aC13-2m
3	C15 LOCKING TO C14 LOCKING, 2m, WHITE	ZONIT	zLock-zC14-14-aC15-2m-WH
4	C13 LOCKING TO C14 LOCKING, 2m, WHITE	ZONIT	zLock-zC14-14-aC13-2m-WH
5	CORD PROVIDED WITH EQUIPMENT	N/A	N/A

NOTE: THE "2m" WITHIN THE PART NUMBER INDICATES LENGTH. THE LENGTH ORDERED BY THE IMPLEMENTATION TEAM MAY VARY BY PROJECT BASED ON PRODUCT AVAILABILITY.

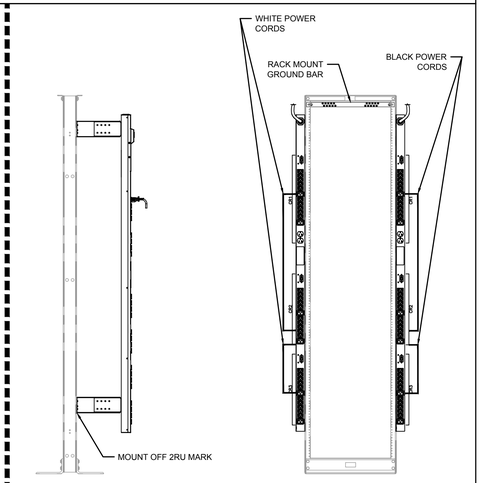
8 EQUIPMENT POWER CONNECTIONS SCHEMATIC
SCALE: NONE



NOTE: SEE THE RACK EQUIPMENT SCHEDULE ON THE ENLARGED MER/TR PLANS FOR PDU AND PDU MOUNTING BRACKET PART NUMBERS.

BRANCH CIRCUIT DISTRIBUTION:

1. REDUNDANT AND DIVERSELY FED A/B CIRCUITS TO RACKS IN DISCRETE CONDUITS (A & B CIRCUITS CANNOT SHARE A CONDUIT).
2. LOWEST ACCEPTABLE LEVEL OF REDUNDANCY IS TWO CIRCUITS DIVERSELY ROUTED FROM A COMMON BREAKER PANEL, BUT UPS REDUNDANCY SHOULD BE PROVIDED IF AVAILABLE.
3. CIRCUITS MUST BE DEDICATED INCLUDING DEDICATED NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR (EGC).
4. NO ISLOATED GROUND (IG) CIRCUITS UNLESS REQUIRED FOR SPECIFIC EQUIPMENT.
5. PROTECTED BY TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICE AT BREAKER PANEL SERVING THE TELECOM ROOM.
6. TC SHALL PROVIDE JPMC STANDARD BLACK AND WHITE POWER CORDS FOR NETWORK EQUIPMENT.



SIDE VIEW OF RACK

REAR VIEW OF RACK

PDU MOUNTING NOTES:

A. TC SHALL MOUNT BRACKET TO THE INSIDE FACE OF THE REAR RAIL OF THE RACK.
B. TC SHALL MOUNT PDU TO BRACKET SO OUTLETS ARE FACING OUTSIDE THE RACK.
C. PLUG STRIP OUTLETS MUST BE FREE & CLEAR AND EASILY ACCESSIBLE.
D. TC SHALL PROVIDE A LABEL ON EACH PDU INDICATING THE ELECTRICAL CIRCUIT DESIGNATION. ON THE WHITE PDU, THE LABEL BACKGROUND SHALL BE WHITE WITH BLACK TEXT. ON THE BLACK PDU, THE LABEL BACKGROUND SHALL BE BLACK WITH WHITE TEXT.
E. TC SHALL GROUND THE PDU TO THE RACK-MOUNTED GROUND BAR.

9 2-POST PDU MOUNTING DETAILS
SCALE: NONE

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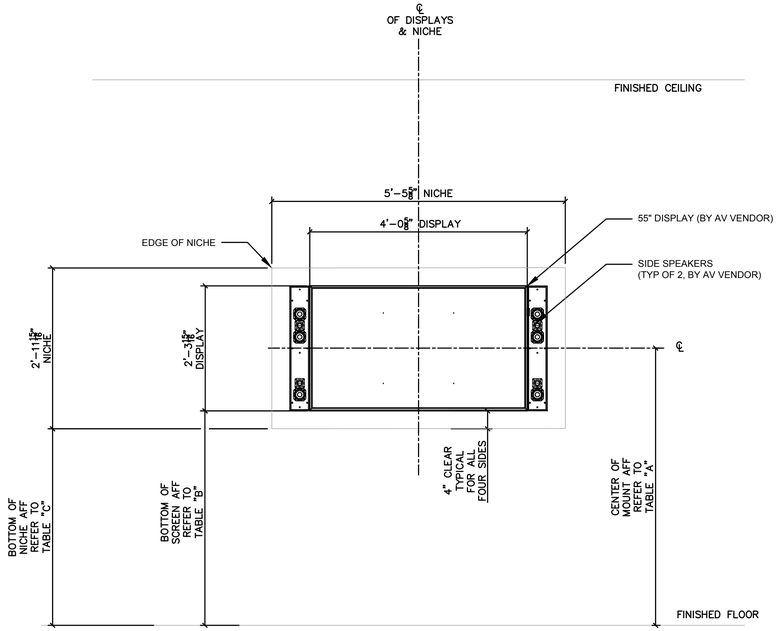
TELECOM INSTALLATION DETAILS

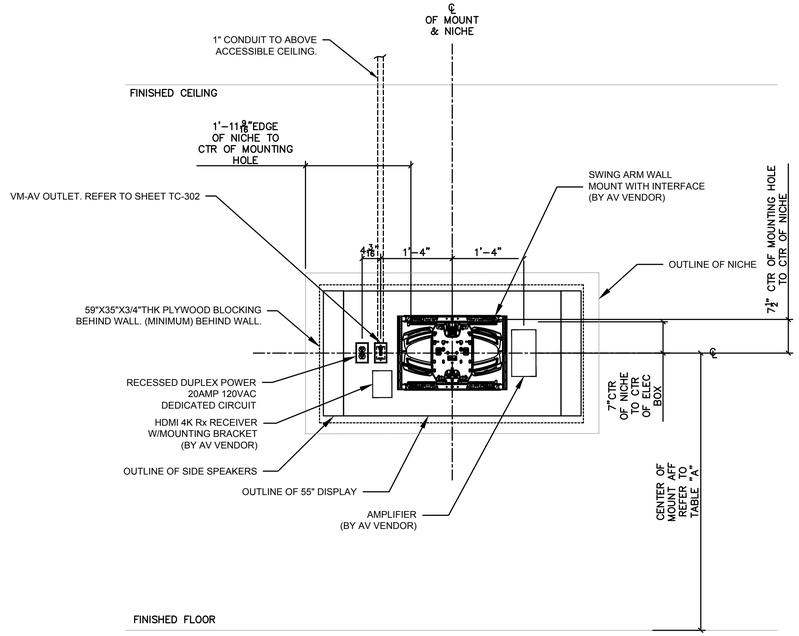
job no.
OVP-38200P368999

sheet
TC-403

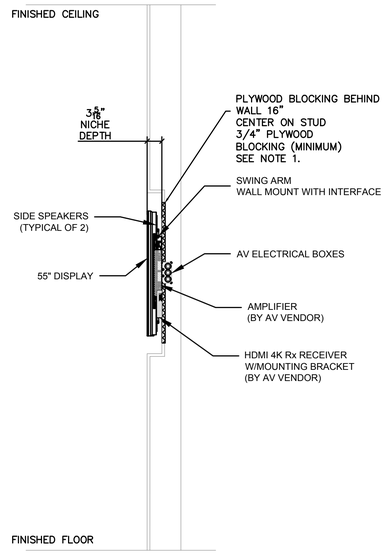
DEVICE NAME	WEIGHT (LBS)
55" DISPLAY	37.70
WALL MOUNT	27.25
SPEAKERS	20.0
TOTAL	84.95



A AUDIOVISUAL 55" DISPLAY ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 1

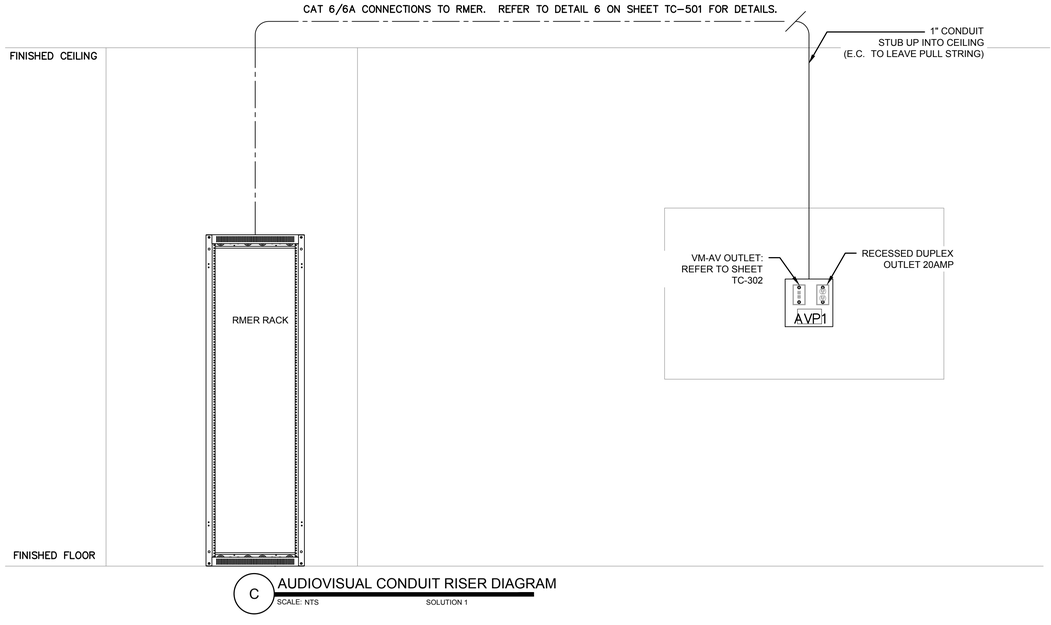


B AUDIOVISUAL 55" DISPLAY MOUNTING ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 1



NOTE:
1. STRUCTURAL ASSESSMENT AND BLOCKING REQUIREMENTS TO BE BY JPMC/GC. GC TO SUPPLY & INSTALL PLYWOOD BLOCKING

C AUDIOVISUAL 55" DISPLAY WALL SECTION
SCALE: 3/4"=1'-0" SOLUTION 1



C AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: NTS SOLUTION 1

"A" HEIGHTS		"B" HEIGHTS		"C" HEIGHTS	
TYPE	DIMENSION	TYPE	DIMENSION	TYPE	DIMENSION
V3.0	7'-5"	V3.0	6'-3"	V3.0	5'-11"
DAB	6'-5"	DAB	5'-3"	DAB	4'-11"
LIVING ROOM	5'-5"	LIVING ROOM	4'-3"	LIVING ROOM	3'-11"
V2.5 ATM	6'-9"	V2.5 ATM	5'-7"	V2.5 ATM	5'-3"
BTL	7'-5"	BTL	6'-3"	BTL	5'-11"

INSTALLATION REQUIREMENTS FROM SURVEY			
MEASUREMENT	REQUIRED DIMENSION	MEASURED DIMENSION	NOTES
NICHE BOTTOM AFF	REF. TABLE - C		
NICHE WIDTH	5'-5 5/8"		
NICHE HEIGHT	2'-11 15/16"		
NICHE DEPTH	3-5/16"		
CORPORATE DATA QTY.	0		
AV STRUCTURED CABLE QTY.	1		
POWER	DUPLEX 15A 120V		
BLOCKING	SEE NOTE 1		

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site location **JP MORGAN CHASE & CO**
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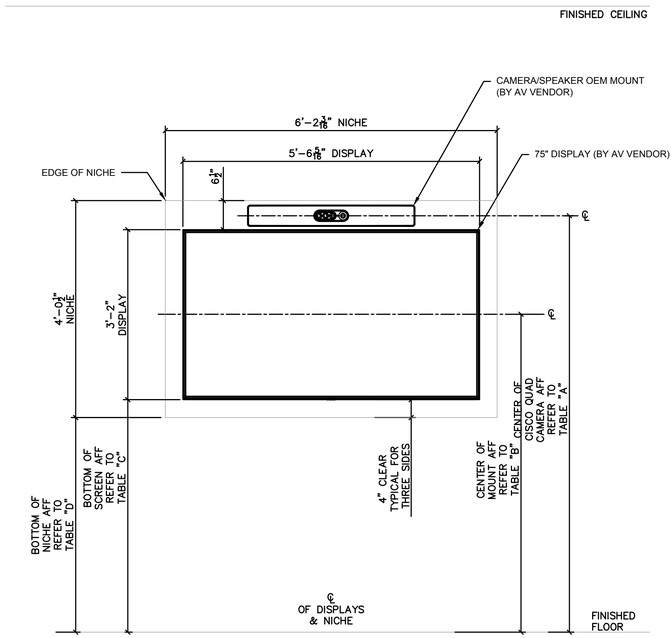
AV SOLUTION #1
55" DISPLAY
NICHE/RECESS MOUNT

job no. OVP-38200P368999

sheet

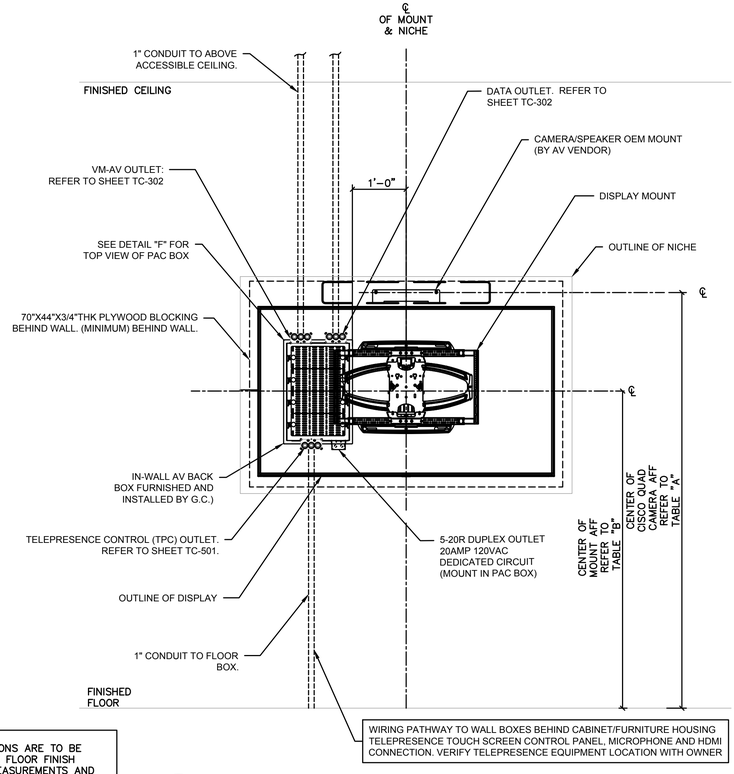
TC-501

DEVICE NAME	WEIGHT (LBS)
75" DISPLAY	91.71
WALL MOUNT	55
SPEAKERS	7.00
TOTAL	153.71

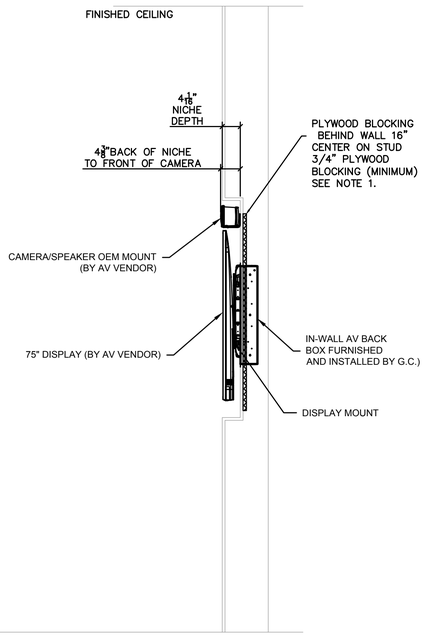


A AUDIOVISUAL 75" DISPLAY ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 3

NOTE:
ALL FINISHED FLOOR ELEVATIONS ARE TO BE COORDINATED WITH SELECTED FLOOR FINISH THICKNESS PRIOR TO ANY MEASUREMENTS AND ROUGH-IN.

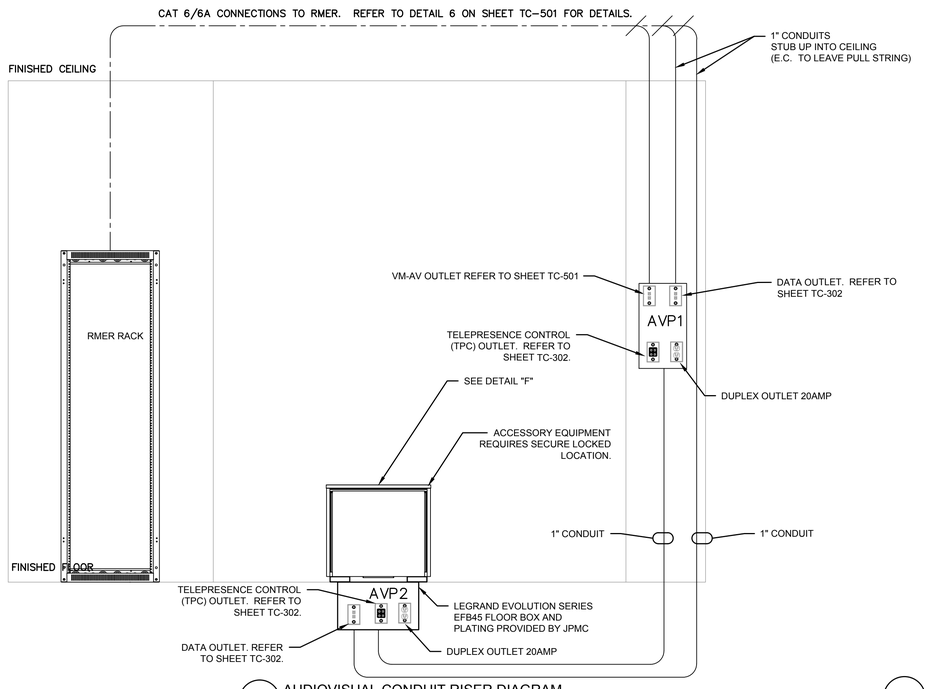


B AUDIOVISUAL 75" DISPLAY MOUNTING ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 3

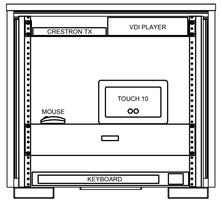


NOTE:
1. STRUCTURAL ASSESSMENT AND BLOCKING REQUIREMENTS TO BE BY JPMC/GC. GC TO SUPPLY & INSTALL PLYWOOD BLOCKING

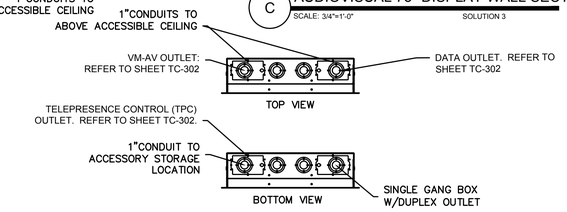
C AUDIOVISUAL 75" DISPLAY WALL SECTION
SCALE: 3/4"=1'-0" SOLUTION 3



D AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: NTS SOLUTION 3



F AUDIOVISUAL SIDE TABLE (ENLARGED DETAIL)
SCALE: 3/4"=1'-0" SOLUTION 3



E AUDIOVISUAL PAC BOX (ENLARGED DETAIL)
SCALE: 3/4"=1'-0" SOLUTION 3

"A" HEIGHTS		"B" HEIGHTS		"C" HEIGHTS		"D" HEIGHTS	
TYPE	DIMENSION	TYPE	DIMENSION	TYPE	DIMENSION	TYPE	DIMENSION
DAB	7'-9 1/8"	DAB	5'-11"	DAB	4'-4"	DAB	4'-0"
LIVING ROOM	7'-1 7/8"	LIVING ROOM	5'-3 1/4"	LIVING ROOM	3'-5 1/2"	LIVING ROOM	3'-4 3/4"

INSTALLATION REQUIREMENTS FROM SURVEY			
MEASUREMENT	REQUIRED DIMENSION	MEASURED DIMENSION	NOTES
NICHE BOTTOM AFF	REF. TABLE - D		
NICHE WIDTH	6'-2 3/16"		
NICHE HEIGHT	4'-0 1/2"		
NICHE DEPTH	4 1/16"		
CORPORATE DATA QTY.	1 DISPLAY 1 SIDE TABLE		
AV STRUCTURED CABLE QTY.	5		
POWER	DUPLEX 20A 120V		
BLOCKING	SEE NOTE 1		

NOTE: TO BE USED WHEN TOUCH PANEL IS IN LIVING ROOM SIDE

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designed	KB	date	01.19.2021	drawn	KB
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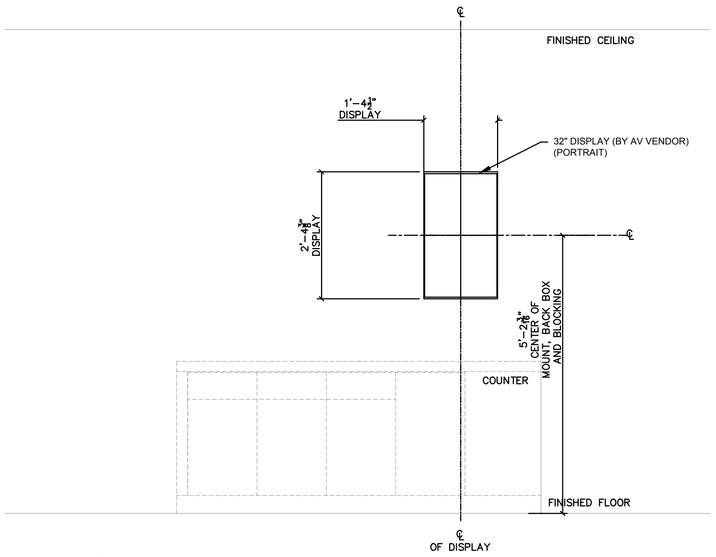
AV SOLUTION #3 75" DISPLAY NICHE/RECESS MOUNT TO SIDE TABLE

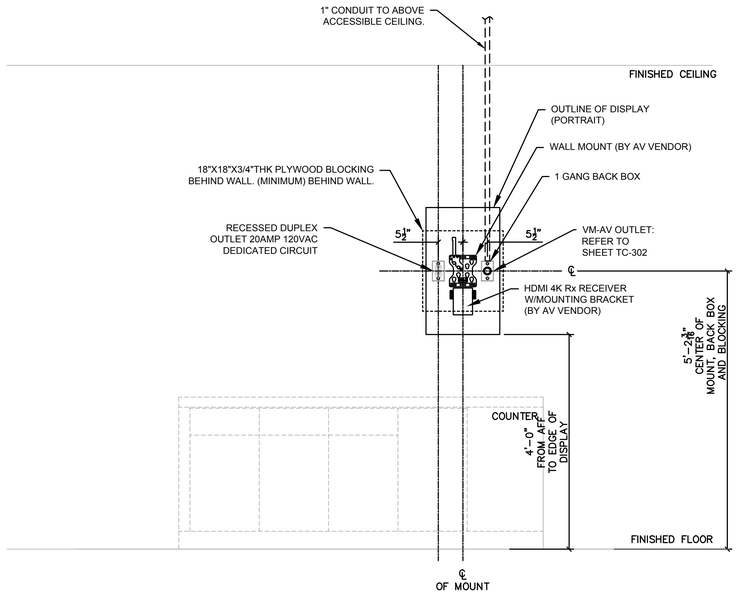
job no. OVP-38200P368999

sheet **TC-502**

DEVICE NAME	WEIGHT (LBS)
32" DISPLAY	10.70
WALL MOUNT	3.00
TOTAL	13.70

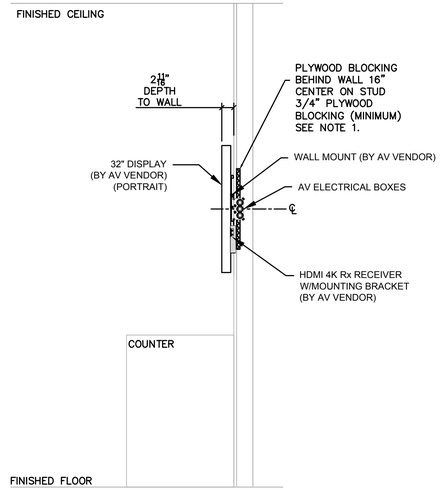


A AUDIOVISUAL 32" DISPLAY ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 7



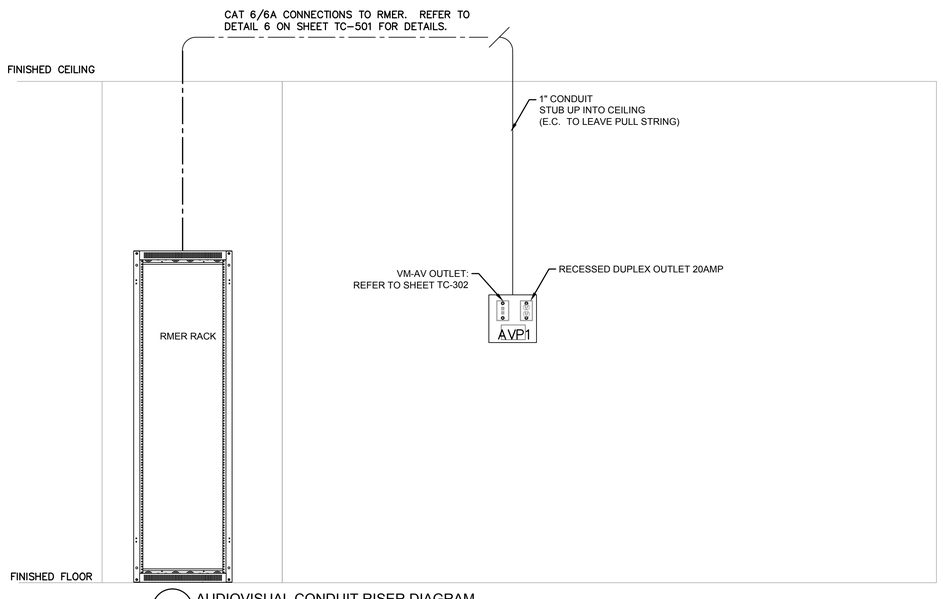
NOTE:
– COORDINATE EXACT LOCATION OF CENTERLINE OF MOUNT WITH ARCHITECT AND ARCHITECTURAL ELEVATION PRIOR TO ROUGH–IN.

B AUDIOVISUAL 32" DISPLAY MOUNTING ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 7



NOTE:
1. STRUCTURAL ASSESSMENT AND BLOCKING REQUIREMENTS TO BE BY JPMC/GC. GC TO SUPPLY & INSTALL PLYWOOD BLOCKING

C AUDIOVISUAL 32" WALL SECTION
SCALE: 3/4"=1'-0" SOLUTION 7



D AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: NTS SOLUTION 7

INSTALLATION REQUIREMENTS FROM SURVEY			
MEASUREMENT	REQUIRED DIMENSION	MEASURED DIMENSION	NOTES
CORPORATE DATA	0		
AV STRUCTURED CABLE QTY.	1		
POWER	DUPLEX 15A 120V		
BLOCKING	SEE NOTE		

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title
AV SOLUTION #7
32" DISPLAY
SURFACE MOUNTED

job no.
OVP-38200P368999

sheet
TC-503

PROJECT MAJOR MATERIAL REQUIREMENTS

CATEGORY	MATERIAL	MANUFACTURER	MODEL NUMBER	QTY	EXT	NOTES
COPPER CABLING	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700210198 (REEL)	#	LF	
	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700214372 (BOX)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700211923 (REEL)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700211931 (BOX)	#	LF	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F001	5	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F005	7	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F007	47	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPC3312-03F010	24	EA	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760105940 (REEL)	#	LF	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760107266 (BOX)	#	LF	
	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760105817	#	LF	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-06F007	21	EA	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-06F010	27	EA	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE	BERK-TEK	10143424	#	LF	
	5' CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-5L	9	EA	
	7' CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-7L	6	EA	
	CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/SYSTIMAX	760008888	#	LF	
	CATEGORY 6, OSP RATED, PATCH CORD BLACK	COMMSCOPE/SYSTIMAX	CO15542-01F007	1	EA	
	CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/SYSTIMAX	760178129	#	LF	
	CATEGORY 6A, OSP RATED, PATCH CORD BLACK	COMMSCOPE/SYSTIMAX	CO15582-01F007	3	EA	
	SHIELDED 22/2 PAIR CABLING	BELDEN	9451	#	LF	
FIBER	12-STRAND SINGLE MODE, INDOOR, PLENUM RATED FIBER BACKBONE REEL	CORNING	012E88-33131-29	#	LF	
	HYBRID FIBER (2-STRAND SINGLE MODE) WITH COPPER (TWO 12AWG), OUTDOOR RATED HORIZONTAL CABLE	BERK-TEK	ONE-REACH SERIES	#	LF	
	SINGLE MODE FIBER PATCH CORD - DUPLEX LC	CORNING	787802GD120002M	2	EA	
	MULTIMODE FIBER PATCH CORD - DUPLEX LC TO LC	CORNING	050502T5116002M	2	EA	
FACEPLATE AND BOXES	CAT 6 RJ45 JACK (GREY)	COMMSCOPE/SYSTIMAX	7600206733	60	EA	
	CAT 6 RJ45 JACK (ORANGE)	COMMSCOPE/SYSTIMAX	700206683	8	EA	
	CAT 6A RJ45 JACK (GREEN)	COMMSCOPE/SYSTIMAX	760092403	40	EA	
	CAT 6A RJ45 JACK (WHITE)	COMMSCOPE/SYSTIMAX	760092429	6	EA	
	WALL MOUNTED FACEPLATE, 4-PORT	COMMSCOPE/SYSTIMAX	108168543	28	EA	
	2-PORT NON-PLENUM RATED SURFACE MOUNT BOX	COMMSCOPE/SYSTIMAX	107984056	2	EA	
	4-PORT 106-FRAME FACEPLATE FOR DECORATOR STYLE FLOOR BOX	COMMSCOPE/SYSTIMAX	106622285	4	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	760235592	8	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	C015J02-88F015	22	EA	
	CATEGORY 6A SHIELDED JACK	LEVITON	6ASJK-RL6	10	EA	
	WALL MOUNTED MULTIMEDIA FACEPLATE	LEVITON	41290-SMW	5	EA	
	WHITE MULTIMEDIA OUTLET 2-PORT RJ-45 MODULE	LEVITON	41294-2GW	16	EA	
	3.5mm STEREO JACKS	LEVITON	40839-SWS	4	EA	
GROUNDING & BONDING	RACK MOUNTED EQUIPMENT GROUND KIT W/ 96" JUMPER	PANDUIT	RGREJ696Y	10	EA	
	BUSBAR-TO-RACK GROUND BAR KIT W/ 72" JUMPER	PANDUIT	GJS6180U	4	EA	
	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	2	EA	
	TWO HOLE LONG BARREL LUG	PANDUIT	LCC6 SERIES	#	EA	
EQUIPMENT ROOM/RACK AND ASSOCIATED COMPONENTS	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	2	EA	
	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	2	EA	
	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	1	EA	
	3RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	6	EA	
	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187211	1	EA	
	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187203	4	EA	
	CATEGORY 6A RATED, ANGLED, SHIELDED 24-PORT PATCH PANEL	LEVITON	46256-S24	1	EA	
	1RU FIBER OPTIC PANEL WITH DUPLEX LC CONNECTOR PANELS	CORNING	CCH-01U	1	EA	
	DUPLEX LC CONNECTOR PANELS	CORNING	CCH-CP24-A9	1	EA	
	BLACK VERTICAL POWER DISTRIBUTION UNIT	CPI	TS1035241	1	EA	
	MOUNTING BRACKET BLACK	CPI	TS1012713	1	EA	
	WHITE VERTICAL POWER DISTRIBUTION UNIT	CPI	TS1035242	1	EA	
	MOUNTING BRACKET WHITE	CPI	TS1012713	1	EA	
	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	2	EA	
	12" WIDE LADDER RACK - BLACKFINISH	CPI	10250-712	15	LF	
	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	CPI	12101-711	3	EA	
	LADDER RACK CABLE RETAINING POSTS	CPI	10096-706	6	EA	
	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712	4	EA	
	EQUIPMENT SHELF	CPI	11359-719	4	EA	
	SERVER MOUNTING BRACKET	CPI	12751-719	1	EA	
	12-PORT FIBER ENCLOSURE FOR EXTENSION OF CARRIER CONNECTIONS TO RACK	CORNING	PWH-02P	1	EA	
	12-PORT OUTLET FOR COPPER EXTENSION OF CARRIER TO RACK	COMMSCOPE	106658156	1	EA	
	C14-C15 LOCKING POWER CORD (BLACK) 2 METER	ZONIT	(1) zLock-zC14-14-aC15-2m	1	EA	
	C14-C15 LOCKING POWER CORD (WHITE) 2 METER	ZONIT	(1)zLock-zC14-14-aC15-2m-WH	2	EA	
	C14-C13 LOCKING POWER CORD (BLACK) 2 METER	ZONIT	(1) zLock-zC14-14-aC13-2m	1	EA	
	C14-C13 LOCKING POWER CORD (WHITE) 2 METER	ZONIT	(1) ZLock-zC14-14-aC13-2m-WH	2	EA	
	CAT 6 SURGE PROTECTION DEVICE	ITW	CAT6-75A	1	EA	
	CAT 6A SURGE PROTECTION DEVICE	ITW	CAT6A-75	3	EA	
FIRE RATED SLEEVES	4" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD44S2	2	EA	
	WATERFALL ADAPTER	STI	EZRCM44S	3	EA	
	MULTI-GANG PLATE	STI	EZP544W	2	EA	
	4" PRE-MANUFACTURED FIRE RATED SSLEEVE FOR SECURITY CABLING	STI	EZDP44S2	1	EA	
	2" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD22	1	EA	

NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO PROCUREMENT.
- "#" DENOTES THAT THE CONTRACTOR IS TO FIELD VERIFY LENGTHS AND QUANTITIES PRIOR TO PROCUREMENT.

1 PROJECT BILL OF MATERIALS
SCALE:

PATCH PANEL "A" - CAT6 - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	PCS 2 106	DATA OUTLET	M2A01
2	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A02
3	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A03
4	PCS 1 101	DATA OUTLET	M2A04
5	BOOTH 3 103	DATA OUTLET	M2A05
6	BOOTH 4 104	DATA OUTLET	M2A06
7	BOOTH 5 105	DATA OUTLET	M2A07
8	PCS 7 111	DATA OUTLET	M2A08
9	PCS 8 108	DATA OUTLET	M2A09
10	LIVING ROOM 119	DATA OUTLET	M2A10
11	LIVING ROOM 119	DATA OUTLET	M2A11
12	CONFERENCE ROOM 110	DATA OUTLET	M2A12
13	CONFERENCE ROOM 110	DATA OUTLET	M2A13
14	CONFERENCE ROOM 110	DATA OUTLET	M2A14
15	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A15
16	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A16
17	CASH ROOM 116	DATA OUTLET	M2A17
18	PRINT / FILE RM 109	DATA OUTLET	M2A18
19	PRINT / FILE RM 109	DATA OUTLET	M2A19
20	RMER / DATA 115	DATA OUTLET	M2A20
21	RMER / DATA 115	DATA OUTLET	M2A21
22	RMER / DATA 115	DATA OUTLET	M2A22
23	RMER / DATA 115	DATA OUTLET	M2A23
24	RMER / DATA 115	DATA OUTLET	M2A24
25	LOUNGE 113	WALL PHONE	M2A25
26	CASH ROOM 116	DATA OUTLET	M2A26
27	MANJAL TRANSACTION 114	WALL PHONE	M2A27
28	LAO / ACCESS TELLER / ATM & AHD RM 117	WALL PHONE	M2A28
29	PRINT / FILE RM 109	WALL PHONE	M2A29
30	RMER / DATA 115	WALL PHONE	M2A30
31	LAO / ACCESS TELLER / ATM & AHD RM 117	ATM DATA OUTLET	M2A31
32	LOBBY 120	ATM DATA OUTLET	M2A32
33	LOBBY 120	ATM DATA OUTLET	M2A33
34	LOBBY 120	ATM DATA OUTLET	M2A34
35	MANJAL TRANSACTION 114	TELLER DATA OUTLET	M2A35
36	MANJAL TRANSACTION 114	TELLER DATA OUTLET	M2A36
37	MANJAL TRANSACTION 114	TELLER DATA OUTLET	M2A37
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PATCH PANEL "B" - CAT6A WIRELESS - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	PRINT/FILE RM. 109	WAP 1	M2B01
2	LOUNGE 113	WAP 2	M2B02
3	LAO / ACCESS TELLER / ATM & AHD RM. 117	WAP 3	M2B03
4	LOBBY 120	WAP 4	M2B04
5	DRT 121	WAP 5	M2B05
6	PCS 7 107	WAP 6	M2B06
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PATCH PANEL "C" - CAT6A CAMERA - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	LOBBY 120	CAM #1	M2C01
2	LOBBY 120	CAM #2	M2C02
3	LIVING ROOM 119	CAM #3	M2C03
4	LOBBY 120	CAM #4	M2C04
5	LOBBY 120	CAM #5	M2C05
6	DRT 121	CAM #6	M2C06
7	LOBBY 120	CAM #7	M2C07
8	CORRIDOR 112	CAM #8	M2C08
9	LOUNGE 113	CAM #9	M2C09
10	DATA / RMER 115	CAM #10	M2C10
11	CASH ROOM 116	CAM #11	M2C11
12	MANJAL TRANSACTION 118	CAM #12	M2C12
13	MANJAL TRANSACTION 118	CAM #13	M2C13
14	MANJAL TRANSACTION 118	CAM #14	M2C14
15	LAO / ACCESS TELLER / ATM & AHD RM. 117	CAM #15	M2C15
16	LAO / ACCESS TELLER / ATM & AHD RM. 117	ATM CAM #16	M2C16
17	LOBBY 120	ATM CAM #17	M2C17
18	LOBBY 120	ATM CAM #18	M2C18
19	24 -HOUR TRANSACTION VESTIBULE	CAM #19	M2C19
20	24 -HOUR TRANSACTION VESTIBULE	CAM #20	M2C20
21	24 -HOUR TRANSACTION VESTIBULE	EXT CAM #21	M2C21
22	24 -HOUR TRANSACTION VESTIBULE	EXT CAM #22	M2C22
23	CASH ROOM 116	EXT CAM #23	M2C23
24	LOUNGE 113	EXT CAM #24	M2C24

PATCH PANEL "D" - CAT6A CAMERA - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	UNISEX RESTROOM 1 110	EXT CAM #25	M2D01
2	CONF ROOM 106	EXT CAM #26	M2D02
3	SITE	ATM CAM #27	M2D03
4	SITE	EXT CAM #28	M2D04
5	SITE	EXT CAM #29	M2D05
6	LOUNGE 113	SECURITY MONITOR	M2D06
7	LOUNGE 113	SECURITY MONITOR	M2D07
8	MANJAL TRANSACTION 118	SECURITY MONITOR	M2D08
9	MANJAL TRANSACTION 118	SECURITY MONITOR	M2D09
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PATCH PANEL "E" - F/UTP CAT6A VIDEO - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	LOBBY 120	VM-AV OUTLET	M2E01
2	LIVING ROOM 119	VM-AV OUTLET	M2E02
3	COMMUNITY WALL	VM-AV OUTLET	M2E03
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2 PROJECT PANEL SCHEDULE
SCALE:

JPMORGAN CHASE & CO.
GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH - HWY 291 AND SE LANGSFORD RD

keyplan

FOR REFERENCE ONLY
ISSUED AND
PERMITTED BY OTHERS

seal

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG. NO. 166050
EXPIRES 12-31-23
RCDD

issue

no	date	issue	by
A	12.21.2020	ISSUED FOR COORDINATION	KB
B	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location
JP MORGAN CHASE & CO
890 NE LANGSROD RD
LEE'S SUMMIT, MO
64063

designed KB | date 01.19.2021 | drawn KB
checked CC | scale AS NOTED

title
TELECOM MATERIALS AND PATCH PANEL SCHEDULES

job no.
OVP-38200P368999

sheet
TC-601