

JP MORGAN CHASE, N.A. HWY 291 & NE LANGSFORD RD

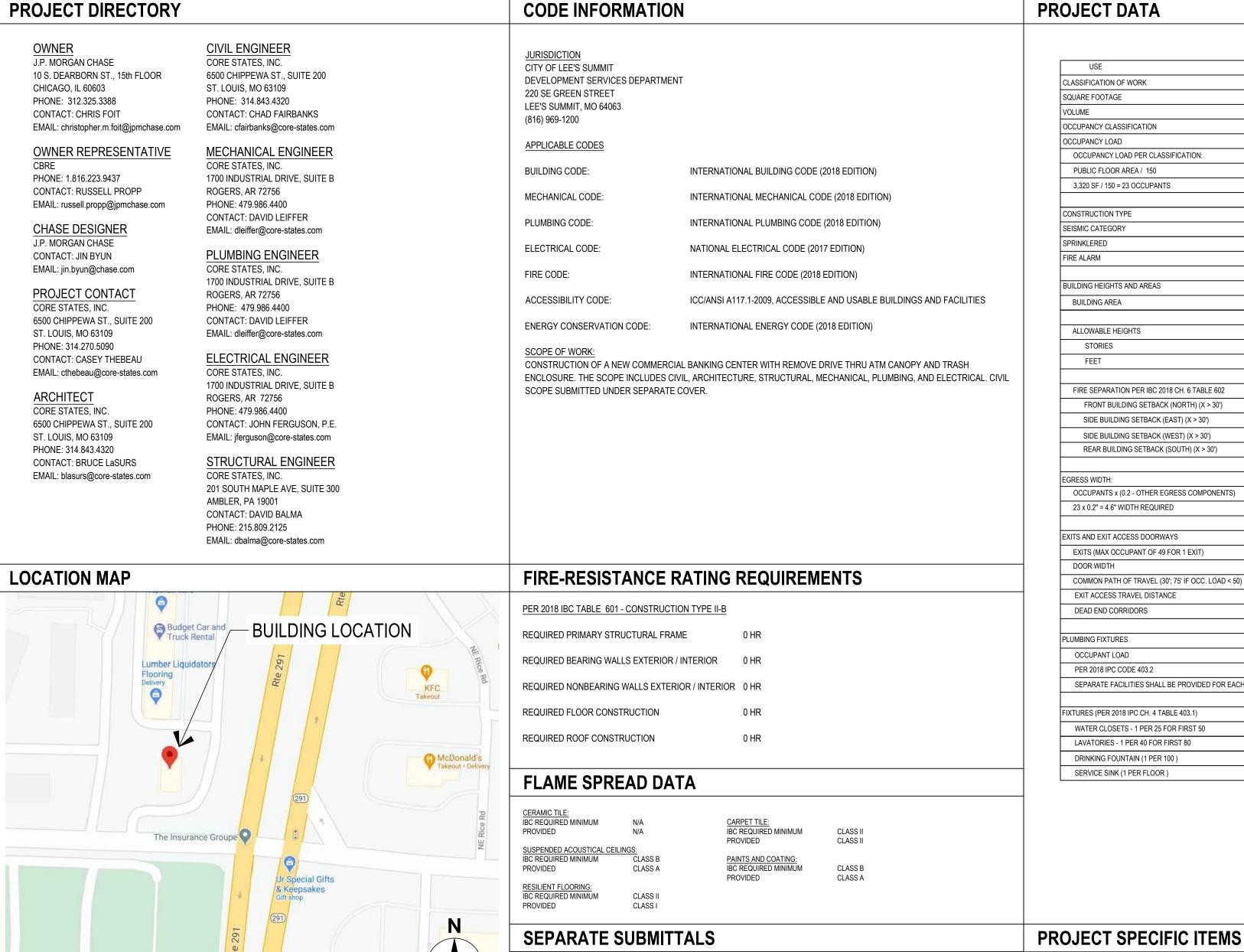
890 NE LANGSFORD RD LEE'S SUMMIT, MO 64063 CHASE OVP#38200P368999

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

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

SIGNAGE PACKAGE

SECURITY ALARM



	NEW RETAIL BANKING CENT	TER
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 PE	ER 2018 IBC
3,320 SF / 150 = 23 OCCUPANTS		
CONSTRUCTION TYPE	II-B	
SEISMIC CATEGORY	В	
SPRINKLERED	NOT REQUIRED	
FIRE ALARM	NOT REQUIRED	
111.67.67.61.01	TO THE GOINED	
BUILDING HEIGHTS AND AREAS	ALLOWABLE/REQ'D	PROPOS
BUILDING AREA	23,000 S.F.	3,320 S
ALLOWABLE HEIGHTS		
STORIES	3	1
FEET	55'-0"	21'-6"
		<u> </u>
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:		
OCCUPANTS x (0.2 - OTHER EGRESS COMPONENTS)		
23 x 0.2" = 4.6" WIDTH REQUIRED		
EXITS AND EXIT ACCESS DOORWAYS	OFF LIFE CAFETY DI	AN CHEET A1 1
	SEE LIFE SAFETY PL	AN SHEET AT.T.
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		
	l	
PLUMBING FIXTURES	_ 00 TOTAL COOLIDANTS S	ED 2040 ID2
OCCUPANT LOAD	= 23 TOTAL OCCUPANTS P	EK ZUT8 IBC
PER 2018 IPC CODE 403.2		
SEPARATE FACILITIES SHALL BE PROVIDED FOR EACH SEX.		
FIXTURES (PER 2018 IPC CH. 4 TABLE 403.1)	1	1/1
FIXTURES (PER 2018 IPC CH. 4 TABLE 403.1) WATER CLOSETS - 1 PER 25 FOR FIRST 50	1/1	
	1/1	1/1
		1 / 1 1 HIGH / 1

NO BRG, SECURITY FILMS, ANTI-GRAFFITI FILMS

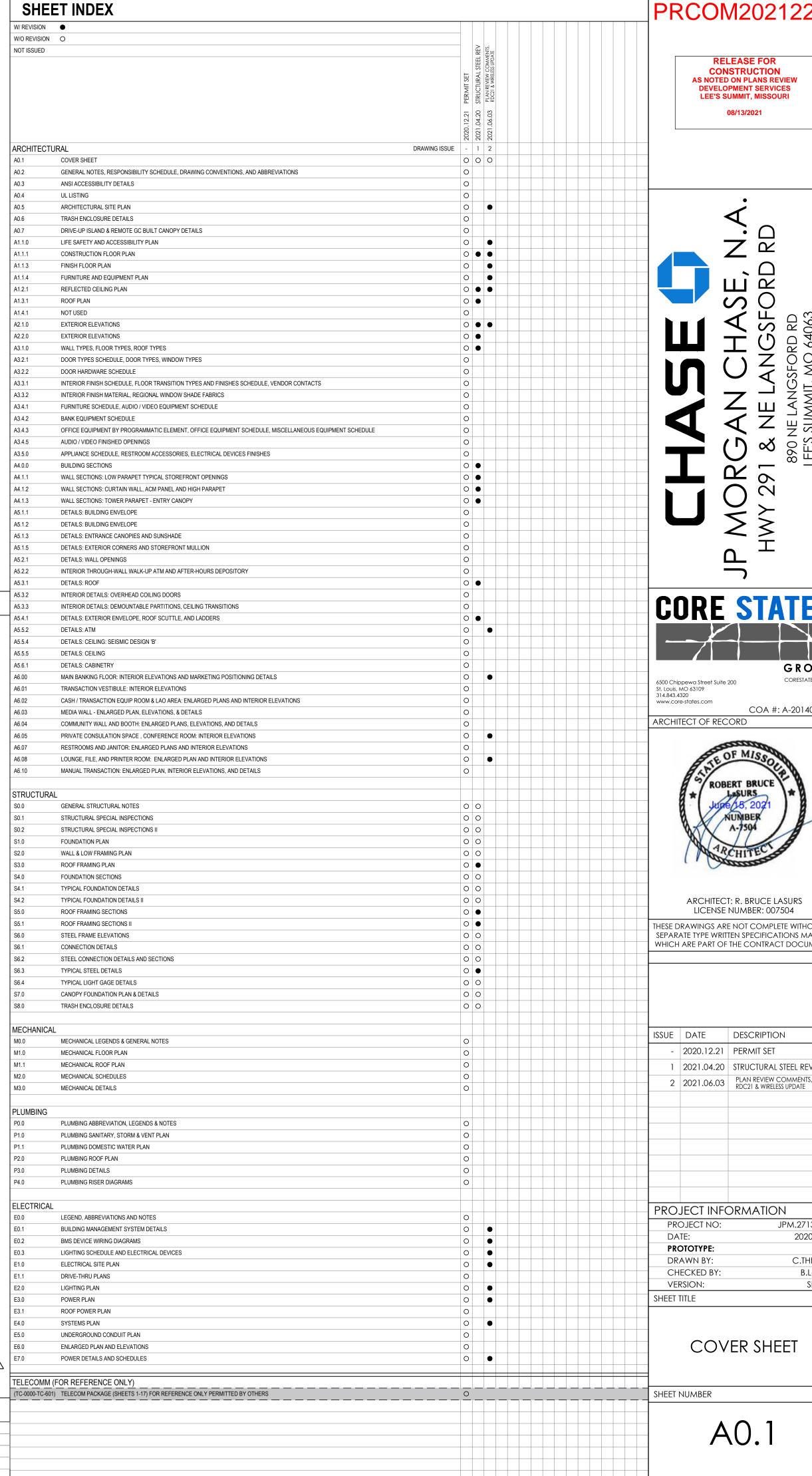
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SECURITY ENAHNCEMENTS:

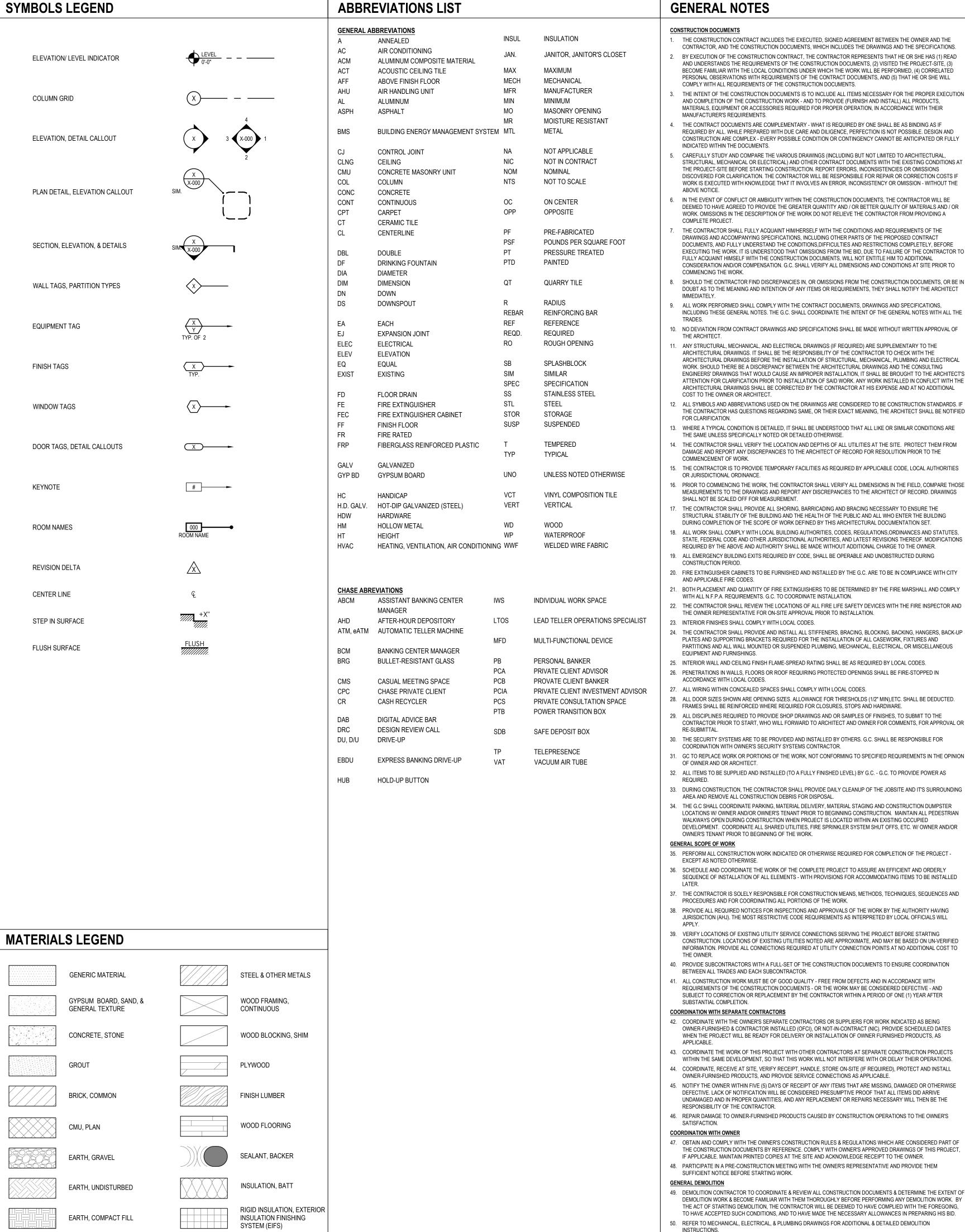
INCLUDES RETAIL DESIGN COMMUNICATION UP TO:

DATE OF DRC ISSUED:

REMOTE DRIVE-UP ATM:



PRCOM2021224 COA #: A-2014026908 HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS. 1 2021.04.20 STRUCTURAL STEEL REV JPM.27135.001 2020.12.21 C.THEBEAU **B.LaSURS**



GENERAL NOTES

COMMENCING THE WORK.

COST TO THE OWNER OR ARCHITECT

- 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 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 LINDER WHICH THE WORK WILL BE PERFORMED. (4) CORRELATED.
- COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. 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.

PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND (5) THAT HE OR SHE WILL

- 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.
- CARFFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL STRUCTURAL MECHANICAL OR FLECTRICAL) AND OTHER CONTRACT DOCUMENTS WITH THE EXISTING CONDITIONS AT THE PROJECT-SITE REFORE 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
- IN THE EVENT OF CONFLICT OR AMBIGUITY WITHIN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR WILL BE DEFMED 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
- 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
- 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
- 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
- NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 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
- 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

ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL

- . 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. 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 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 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. 9. ALL EMERGENCY BUILDING EXITS REQUIRED BY CODE, SHALL BE OPERABLE AND UNOBSTRUCTED DURING CONSTRUCTION PERIOD
- 0. FIRE EXTINGUISHER CABINETS TO BE FURNISHED AND INSTALLED BY THE G.C. ARE TO BE IN COMPLIANCE WITH CITY AND APPLICABLE FIRE CODES
- 1. 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.
- 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 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.
- 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. 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 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. . GC TO REPLACE WORK OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED REQUIREMENTS IN THE OPINION
- OF OWNER AND OR ARCHITECT.
- 2. ALL ITEMS TO BE SUPPLIED AND INSTALLED (TO A FULLY FINISHED LEVEL) BY G.C. G.C. TO PROVIDE POWER AS
- 33. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF THE JOBSITE AND IT'S SURROUNDING AREA AND REMOVE ALL CONSTRUCTION DEBRIS FOR DISPOSAL.
- . 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.

- 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
- 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
- 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
- 40. PROVIDE SUBCONTRACTORS WITH A FULL-SET OF THE CONSTRUCTION DOCUMENTS TO ENSURE COORDINATION BETWEEN ALL TRADES AND EACH SUBCONTRACTOR.
- 1. 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
- 3. 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.
- 4. COORDINATE, RECEIVE AT SITE, VERIFY RECEIPT, HANDLE, STORE ON-SITE (IF REQUIRED), PROTECT AND INSTALL OWNER-FURNISHED PRODUCTS, AND PROVIDE SERVICE CONNECTIONS AS APPLICABLE. 5. 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.

- 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.
- . REFER TO MECHANICAL, ELECTRICAL, & PLUMBING DRAWINGS FOR ADDITIONAL & DETAILED DEMOLITION INSTRUCTIONS.

CHASE NOTES

51. PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING WALLS. FLOORS, CEILINGS, ETC. THAT ARE TO REMAIN

52. IF CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS DURING DEMOLITION OR CONSTRUCTION, HE SHALL

53. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER & IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

TO THE DEMOLITION AND REMOVAL OF ANY WALLS. COUNTERS, FURNITURE, BULKHEADS, DOORS, PLUMBING.

54. THE SUB-CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED

MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON THE DRAWINGS OR AS

55. WHEN UTILITIES ARE REMOVED, CAP & SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH

56. PROVIDE BARRIERS, FENCES AND OTHER CONTROLS TO PREVENT PUBLIC ENTRY TO CONSTRUCTION AREAS, AND TO

57. PROVIDE PROTECTION OF CONSTRUCTION MATERIALS FROM LOSS, DAMAGE, FIRE OR THEFT, AND PROTECT EXISTING

59. PROVIDE DUMPSTERS AND COLLECT WASTE DAILY. DISPOSE OF MATERIAL IN A LAWFUL MANNER. PLACE DUMPSTER IN

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

63. REVIEW THE OWNER'S SEPARATE CASEWORK/FIXTURES, FURNISHINGS, EQUIPMENT, & SIGNAGE DRAWINGS FOR UNIT

64. PROVIDE ALL HVAC, PLUMBING, GAS OR ELECTRIC SERVICE CONNECTIONS TO CASEWORK / FIXTURES, SIGNAGE, OR

65. VERIFY DISPOSITION OF ALL FURNISHINGS, MILLWORK, LIGHTING FIXTURES, ETC. TO BE REMOVED W/ OWNER. ALL

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,

67. AT PROJECTIONS OF FINISHED SURFACES, INCLUDING PILASTERS OR THICKENED WALLS, RETURN ALL EXPOSED

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,

CONSTRUCTION ONLY TO STRUCTURAL ELEMENTS ABOVE - EVEN IF NOT SPECIFICALLY NOTED. DO NOT ANCHOR TO

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

REMOVE STAINS, SPILLS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PAVED NOR PLANTED,

72.1. PROVIDE MASONRY CONTROL-JOINTS AT 24 FT SPACING MAXIMUM (EVEN IF NOT NOTED), AND WHERE NOTED ON THE

73.1. PROVIDE .042 INCH (18 GA) COLD-FORMED METAL FRAMING AT 16 INCH OC AT EXTERIOR FRAMED WALLS MINIMUM, OR

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,

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).

CMU'S OR CONCRETE WITH 1/4" TAPCONS AT MAXIMUM 16" OC. STAGGER FASTENERS WHEN BLOCKING IS WIDER THAN

74.4. CUT TO FIT ALL WOOD TRIM OR OTHER PREFINISHED TRIM UNITS AND FINISH ALL EXPOSED SURFACES TO MATCH

74.5. ANCHOR WOOD BLOCKING TO METAL STUD FRAMING W/ #12 TEK SCREWS @ 16" OC MAX - ANCHOR BLOCKING TO

75.1. VERIFY THAT ALL EXTERIOR FINISHED GRADES ADJACENT TO EXTERIOR WALL ARE BELOW THE FINISHED FLOOR

75.2. PROVIDE MIN 3-1/2" BATT INSULATION ON CEILINGS ABOVE AND WITHIN PARTITIONS AROUND AND BETWEEN ALL TOILET

75.3. SEAL ALL EXTERIOR BUILDING JOINTS AT BOTH THE OUTSIDE AND INSIDE SURFACES, AND OTHER OPENINGS AGAINST

75.4. PROVIDE SEALANT ALL-AROUND: DOOR OR WINDOW FRAMES. COUNTERTOPS & BACK-SPLASHES. WALL-MOUNTED

76.1. DOOR AND WINDOW DIMENSIONS NOTED ARE NOMINAL - COORDINATE WITH FIELD-CONDITIONS AND VERIFY WITH

77.2. PROVIDE BACK-TO-BACK DOUBLED .0312" (20 GA) METAL STUDS WHERE WALL-BLOCKING IS PROVIDED FOR SUPPORT

77.3. DRYWALL HEADERS: PROVIDE FRAMING @ 16" OC SUSPENDED FROM STRUCTURE ABV W/ 1 LAYER 5/8" GYP BD ON

77.4. PAINT OR STAIN FINISH ALL EXPOSED SURFACES OF CONSTRUCTION UNLESS NOTED OTHERWISE OR IF SURFACE IS

78.1. AT "ASSEMBLY" OCCUPANCIES PROVIDE "MAXIMUM OCCUPANCY" SIGN IN A CONSPICUOUS LOCATION AS APPROVED

78.2. ACCESSIBLE DOOR SIGN W/ RAISED LETTERS, PICTORIAL-SYMBOL & BRAILLE PLATE READING "MEN". "WOMEN".

78.3. TOWEL-DISPENSER AND WASTE RECEPTACLE AT EACH LAVATORY OR HAND SINK - PROVIDE WALL BLOCKING IF

79.1. PROVIDE WATER-SERVICE SHUTOFF-VALVE W/ BACK-FLOW PREVENTER (DOWNSTREAM OF VALVE) AT EA HOT- OR

80.1. SUBMIT SPRINKLER-SYSTEM DESIGN DRAWINGS TO AHJ AND OWNER (WHEN APPLICABLE) AND OBTAIN THEIR

81.3. MINIMUM SLOPE OF EXTERIOR PAVEMENT (WITHIN 10 FEET OF BUILDING) 2% DRAINING AWAY FROM BUILDING.

80.2. PROVIDE SEMI-CONCEALED TYPE SPRINKLER HEADS IN PUBLIC VIEW AREAS. PROVIDE STANDARD SURFACE-MTD

PRE-FINISHED. PROVIDE PAINT FINISH MIN AT ALL SURFACES NOT OTHERWISE INDICATED TO RECEIVE OTHER FINISH.

"RESTROOM" OR AS APPROPRIATE TO USE/TITLE OF ROOM - MOUNT 9" FROM STRIKE EDGE OF DOOR & 60 INCHES AFF

FINISH EXPOSED EDGES OR SURFACES OF CUT WOOD OR PREFINISHED TRIM TO MATCH ADJACENT SURFACES.

76.2. HARDWARE MATERIALS: PROVIDE NON-FERROUS MATERIALS AT EXTERIOR LOCATIONS.

77.1. PROVIDE 5/8" THICK GLASS-MAT GYPSUM BACKER-BOARD AT ALL PARTITIONS W/ TILE FINISH.

FIXTURES OR EQUIPMENT (INCLUDING LAVS OR SINKS) TO ADJACENT WALL SURFACES, AND OTHER SIMILAR

MOISTURE AND AIR-INFILTRATION. AT JOINTS AROUND STOREFRONT/CURTAIN WALL SYSTEMS, PROVIDE SHIM-SPACE

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.

74.1. PROVIDE PRESERVATIVE-TREATED WOOD WHEN WOOD IS IN DIRECT CONTACT WITH CONCRETE OR MASONRY

71. CLEAN THE PROJECT SITE OF RUBBISH, LITTER AND OTHER FOREIGN SUBSTANCES. BROOM CLEAN PAVED AREAS AND

GROMMETS AND SIMILAR SURFACE CLOSURE OR FINISHED TRIMS AT EXPOSED PENETRATIONS OF FINISHED

69. BRACE PARTITIONS, SUSPEND CEILINGS OR SOFFITS, AND BRACE PLATFORMS, SUSPENDED ITEMS OR SIMILAR

ROOF DECK, PLUMBING / SPRINKLER PIPES, DUCTWORK, ELECTRICAL CONDUIT OR SIMILAR ELEMENTS.

REFER TO GENERAL NOTES SHEETS FOR EACH PROFESSIONAL DISCIPLINE FOR ALL OTHER CONSTRUCTION

REPORT DISCREPANCIES OR OMISSIONS OF EQUIPMENT REQUIREMENTS PRIOR TO INSTALLATION.

EQUIPMENT INDICATED (WHETHER UNITS ARE INSTALLED BY CONTRACTOR OR BY OTHERS).

ITEMS TO BE DISPOSED SHALL BE DISPOSED OF OFF-SITE AND IN AN EXPEDITIOUS MANNER.

SURFACE FINISHES BACK TO THE PRIMARY SURFACE EVEN IF NOT SPECIFICALLY NOTED.

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.

58. PROVIDE TEMPORARY FIRE-PREVENTION MEASURES AND PROCEDURES INCLUDING FIRE-EXTINGUISHERS PER AHJ

60. STORE PRODUCTS PER MANUFACTURER'S INSTRUCTIONS, PROTECTED FROM DAMAGE OR ABUSE, AND WITH

IMMEDIATELY SUSPEND WORK & NOTIFY THE AREA CONSTRUCTION MANAGER BEFORE PROCEEDING.

REQUIRED TO COMPLETE THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

PROTECT CONSTRUCTION WORKERS AND THE PUBLIC FROM HAZARDS OF CONSTRUCTION.

CONSTRUCTION FROM DAMAGE BY CONSTRUCTION OPERATIONS.

LOCATION APPROVED BY OWNER OR LANDLORD, AS APPLICABLE.

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

EXISTING ADJACENT CONSTRUCTION & FINISHES

TEMPORARY FACILITIES, UTILITIES & CONTROLS

REQUIREMENTS.

GENERAL PRODUCT REQUIREMENTS

GENERAL EXECUTION OF THE WORK

FINAL CLEANING

ELECTRICAL AND PLUMBING CONNECTIONS

TO A SMOOTH EVEN-TEXTURED SURFACE.

GREATER AS NOTED ON STRUCTURAL DRAWINGS.

SPECIALTIES, ACCESSORIES, FIXTURES OR EQUIPMENT

REFINISH ALL EXPOSED CUTS AND DAMAGED WOODWORK.

AND SEALANT INSIDE AND OUTSIDE WITH BACKER-ROD.

MANUFACTURERS BEFORE FABRICATION.

77.1. DRYWALL CONTROL JOINTS: LOCATE AS NOTED.

EXPOSED SIDE(S) AND BOTTOM SURFACE.

NECESSARY FOR SECURE ATTACHMENT.

APPROVAL BEFORE STARTING WORK.

COLD-WATER CONNECTION TO EQUIPMENT (EXCEPT AT SINKS).

81.1. MAXIMUM ALLOWABLE SLOPE OF NEW PAVEMENT: 4.9% (1:21).

81.2. MAXIMUM ALLOWABLE CROSS-SLOPE OF NEW PAVEMENT: 2% (1:48).

79.2. PROVIDE SHUTOFF VALVES (STOPS), SUPPLIES AND TRAPS AT ALL LAVS OR SINKS.

SPRINKLER HEADS IN BACK AREAS NOT IN PUBLIC VIEW, UNLESS OTHERWISE NOTED.

OF GRAB-BARS OR SHELVING.

TO SIGN CENTERI INFS

80. DIVISION 21 - FIRE SUPPRESSION SYSTEM NOTES:

81. DIVISION 32 - SITE IMPROVEMENTS:

REQUIREMENTS NOT LISTED BELOW.

75. DIVISION 7 - THERMAL MOISTURE:

77. DIVISION 9 FINISHES:

78. DIVISION 10 - SPECIALTIES:

79. DIVISION 11 - EQUIPMENT:

72. DIVISION 4 - MASONRY

73. DIVISION 5 - METAL

74. DIVISION 6 - WOOD

VENTILATION TO AVOID CONDENSATION.

CONTRACTOR TO PATCH & REPAIR ANY DAMAGED PORTIONS OF THE EXISTING BUILDING AS REQUIRED TO MATCH THE

- 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.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH CHASE'S VENDORS REGARDING SCHEDULING ON SITE DURING CONSTRUCTION AND SEQUENCING OF THE WORK.
- 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
- 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.
- ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS
- 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.
- SIGNS, UNLESS NOTED OTHERWISE, ARE PROVIDED BY CHASE'S SIGN CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE
- ROUGH-IN & FINAL CONNECTION AND BRAILLE EXIT SIGN.
- GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING CHASE RETAIL MOVE-IN.
- 1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE

. 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

FURNISHED/ | FURNISHED/ | FURNISHED | COORDINATED

BY CHASE/

BY GENERAL

INSTALLED BY | INSTALLED BY

- 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

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

- FOR OWNER'S EQUIPMENT GENERAL CONTRACTOR TO PROVIDE REQUIRED OPENINGS, ACCESS PANELS, AND ELECTRICAL REQUIREMENTS (INCLUDING FINAL HOOK-UP).
- MILLWORK ITEMS. GENERAL CONTRACTOR TO PROVIDE "BACK OF STORE" MILLWORK WHICH INCLUDES BASE AND WALL CABINETS, WORK COUNTERS AND SHELVING.
- ATM BUILDING, ATM SURROUNDS. GENERAL CONTRACTOR TO PROVIDE POWER & CONDUITS.
- SIGNAGE TO INCLUDE DIRECTIONAL SIGNAGE, AND MAIN BUILDING LETTER SET. GENERAL CONTRACTOR TO PROVIDE CONDUIT. ROUGH-IN & FINAL ELECTRICAL CONNECTIONS.
- 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
- FINAL LOCATION DETERMINED BY BRANCH PLANNING.
- MONUMENT SIGN FOUNDATION/MASONRY BY CONSULTANT'S SIGN VENDOR. ELECTRICAL BY GENERAL CONTRACTOR. . EQUIPMENT CONTRACTOR IS A SUBCONTRACTOR OF THE OWNER.

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

NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.

DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSION.

- 9. GENERAL CONTRACTOR TO FURNISH QUANTITY TAKEOFF INCLUDING 10% ATTIC STOCK

GENERAL NOTES,

& ABBREVIATIONS

CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 08/13/2021



COA #: A-2014026908



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE

SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

DESCRIPTION

SSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

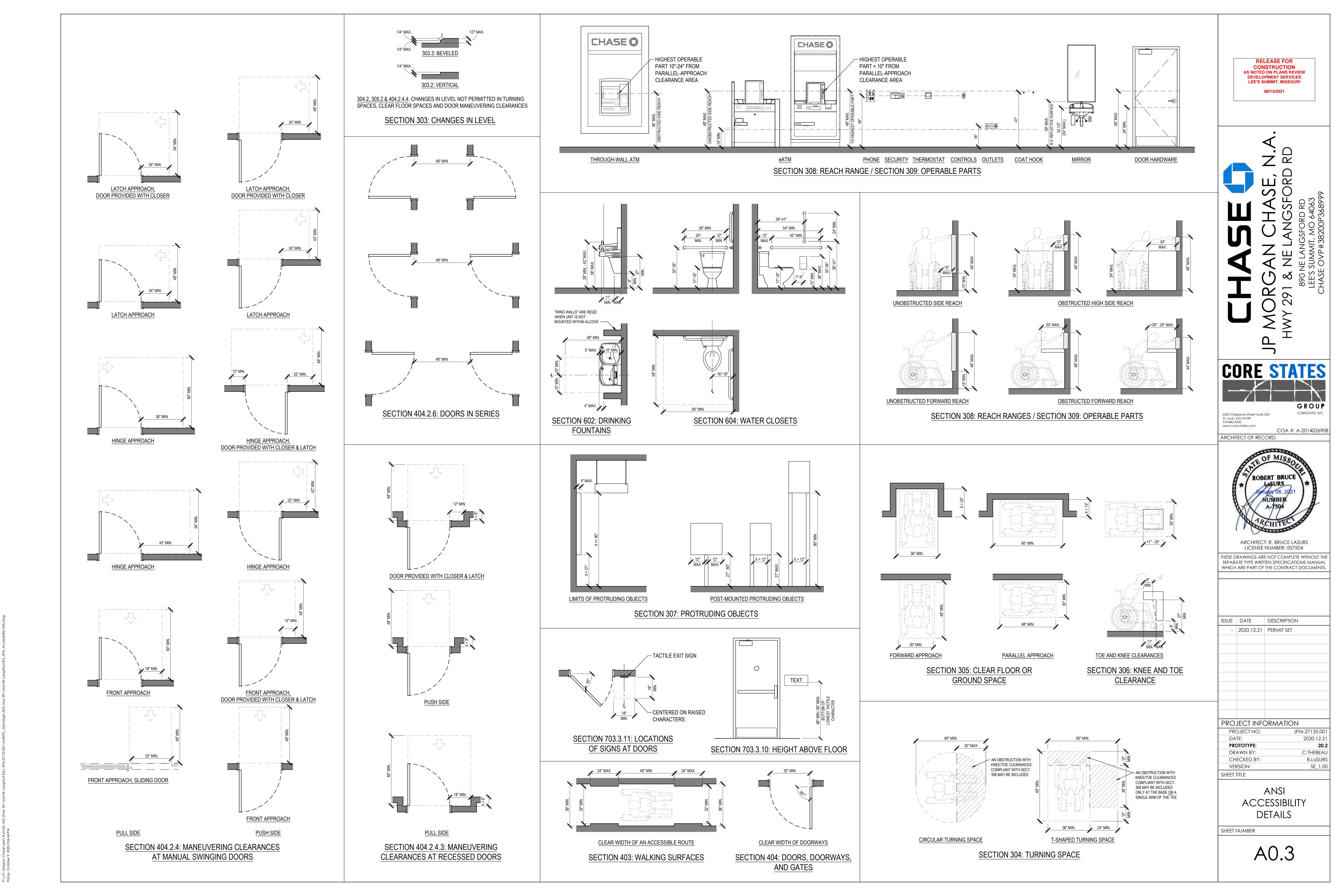
PROJECT INFORMATION PROJECT NO:

JPM.27135.001 2020.12.2 **PROTOTYPE** C.THEBEAU DRAWN BY: CHECKED BY: **B.LaSURS**

VERSION: SE 1.00 SHEET TITLE RESPONSIBILITY SCHEDULE,

DRAWING CONVENTIONS.

SHEET NUMBER



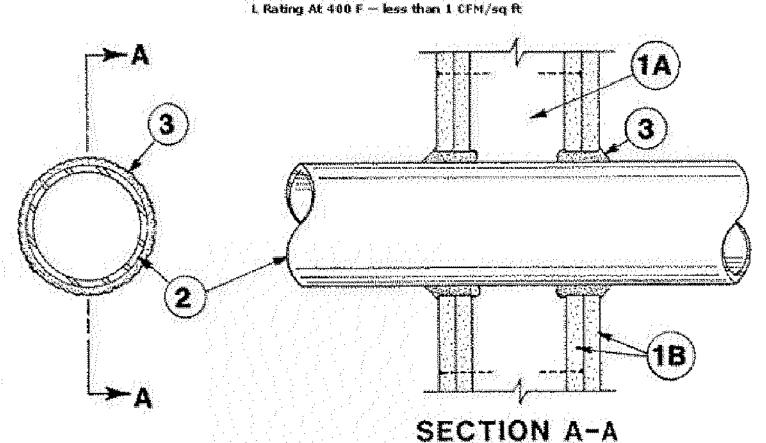
System No. W-L-1001

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



1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsion walknown fixed wall excembly 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 believe the following construction features:

> A. Stude - Wall framing may consist of either mood stude (max 2 h fire rated assembles) or study channel study. Wood study to consist of norm 2 by 4 in. (\$1 by 102 mm) lumber spaced 16 in. (405 mm) OC with norm 2 by 4 m. (51 by 102 mm) timber and plater and cross braces. Steel stude to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in.

B. Gypsum Boards - Nom 1/2 or 5/2 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tagered edges. The gypoum wallboard type, thickness, number of layers, fastener type and sheet orientation shelf 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-Penatrant — One metalic pipe, conductor tubby installed ether concentrally or accentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of O in / (O mm). (point contact) to max 2 in (\$1 mm) Pips, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metalic pipes, conducts or tubing may be used:

A Steel Pipe - Norm 24 in. (610 mm) dam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Draw Piec - Nom 24 in (610 mm) dam (or smaler) service weight (or heavier) cast fron sol ope, nom 12 in (305 mm) diam for smaler) or Class 50 (or heaver) ductile for pressure spe-

C. Conduit - Nom S in: [182 mm] dism for smaller steel conduit or nom 4 in [182 mm] dism for smaller) steel electrical metalic tubing

O. Copper Tubing — Nom 5 in. (152 mm) dam (or smaler) Type L (or heavier) copper tubing

E. Copper Pipe - Nam 6 in. (152 mm) dam (or smaler) Regular (or heavier) copper size.

F. Through Penetrating Products — Fixable Metal Phing The following types of steel flexible

metal gas gong may be used:

1. Nom 2 in (S1 mm) diam (or smaler) steel fier bis metal gas piping. Plastic covering on plang may or may not be removed on both sides of hoor or wall assembly.

OMEGA PLEX INC

2. Nom 1 in (25 mm) dam (or smaler) steel feath metal gas piping. Plastic covering on plang

may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX I. No m I in (IS mm) diam (or smaler) steel flexible metal gas piping. Plastic covering on piping.

may or may not be removed on both sides of Roor or wall assembly.

WARD MFGLLC

3. Fill Vold or Cavity Material? — Casit or Sealant — Min 5/8. , 1-1/4.1-7/6 and 2-1/2 in (16, 32, 46 and 64 mm) thickness of casis, for 1, 2, 2 and 4 hr rated assembles, respectively, applied within annulus, such 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 fourly 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 housily Il Rating of the frestop system is dependent upon the type or size of the pipe or conduct and the hourly five rating of the wall assembly in which it is installed, as tableated below:

Man Pipe or Conduit Olum In (1811)	Paring Ha	T Rating Hr
1 (25)	1 of 2	0+, 1 os 2
1(25)	ii se 4	İor#
4 (102)	1 ar 2	Ċ
6 (152)	ी कहनी	\$2.00 mm
12 (305)	1 200 2	\$

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

A0.4 / N.T.S.

BH COMPANY - CP 25WB+ or PS-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.

THROUGH-PENETRATION FIRESTOP SYSTEM W-L-1001

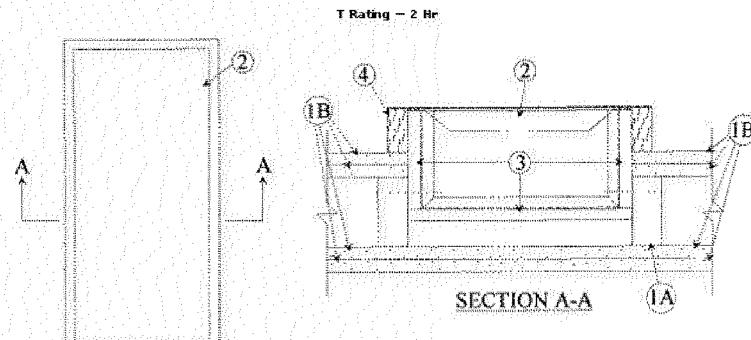
Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-7005

October 31, 2006

F Rating - 2 Hr



1. Wall Assembly - The fire-rated gypsum wasboard/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 ackule the following construction features:

> A: Stude - Wall framing may consist of wood stude or steel channel stude. Wood stude 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 study installed between vertical study and attached to the study 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. Cabineta* - Fire extraorisher cabinet installed per manufacturers installation instructions in max 33-3/4 by 17-3/4 in. opening on one side of the well. Max gap between cabinet and walloard 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, 116SR-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, 18658-4

3. Gypsum Board* - Any 5/8 in thick gypsum walloard 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. Nineral Wool - Min 4.0 pcf mineral wool batt insulation firmly packed inside cabinet trans.

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

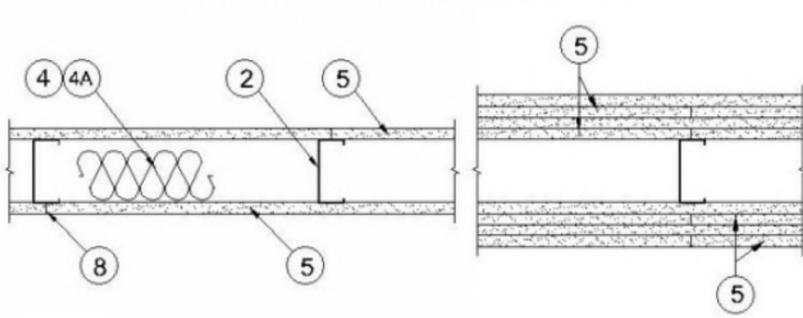
THROUGH-PENETRATION FIRESTOP SYSTEM W-L-7005

A0.4 / N.T.S.

Design No. U419

February 19, 2013

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



UL U419 1-HR RATED ASSEMBLY

2-1/2 2-1/2

1-5/8 3 layers, 5/8 in. thick Optional 1-5/8 2-1/2 4 layers, 5/8 in. thick Optional 1-5/8 2-1/2 4 layers, 1/2 in. thick Optional 2-1/2 2-1/2 2 layers, 3/4 in. thick 6. Fasteners — (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to stude (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

 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

Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under

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

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

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

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

 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

Gypsum Board Protection on Each Side of Wall

Stud

Depth, in.

Item 2A

3-5/8

3-5/8

3-5/8

2-1/2

2-1/2

3-5/8

2-1/2

Thkns of

Insulation

(Item 4)

Optional

1-1/2 in.

Optional

Optional

Optional

Optional

Optional

Layers & Thkns

of Panel

1 layer, 5/8 in. thick

1 layer, 1/2 in. thick

1 layer, 3/4 in. thick

2 layers, 1/2 in. thick

2 layers, 5/8 in. thick

1 layer, 3/4 in. thick

3 layers, 1/2 in. thick

2 layers, 3/4 in. thick

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

Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

used, fastener lengths for gypsum panels increased by min. 1/2 in.

Depth, in

Items 2, 2D, 2E, 2G and 2H

BZJZ) Categories for names of Classified companies.

hr. 3 hr and 4 hr ratings are as follows:

3-1/2

2-1/2

1-5/8

1-5/8

1-5/8

3-1/2

1-5/8

1-5/8

with fasteners 24 in. OC max.

of Classified companies.

Rating, Hr

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.

 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.

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

 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

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 frictionfit 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.

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

08/13/2021

GROUP

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908

ARCHITECT OF RECORD ROBERT BRUCE LaSURS_

ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504 HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

DESCRIPTION ISSUE DATE

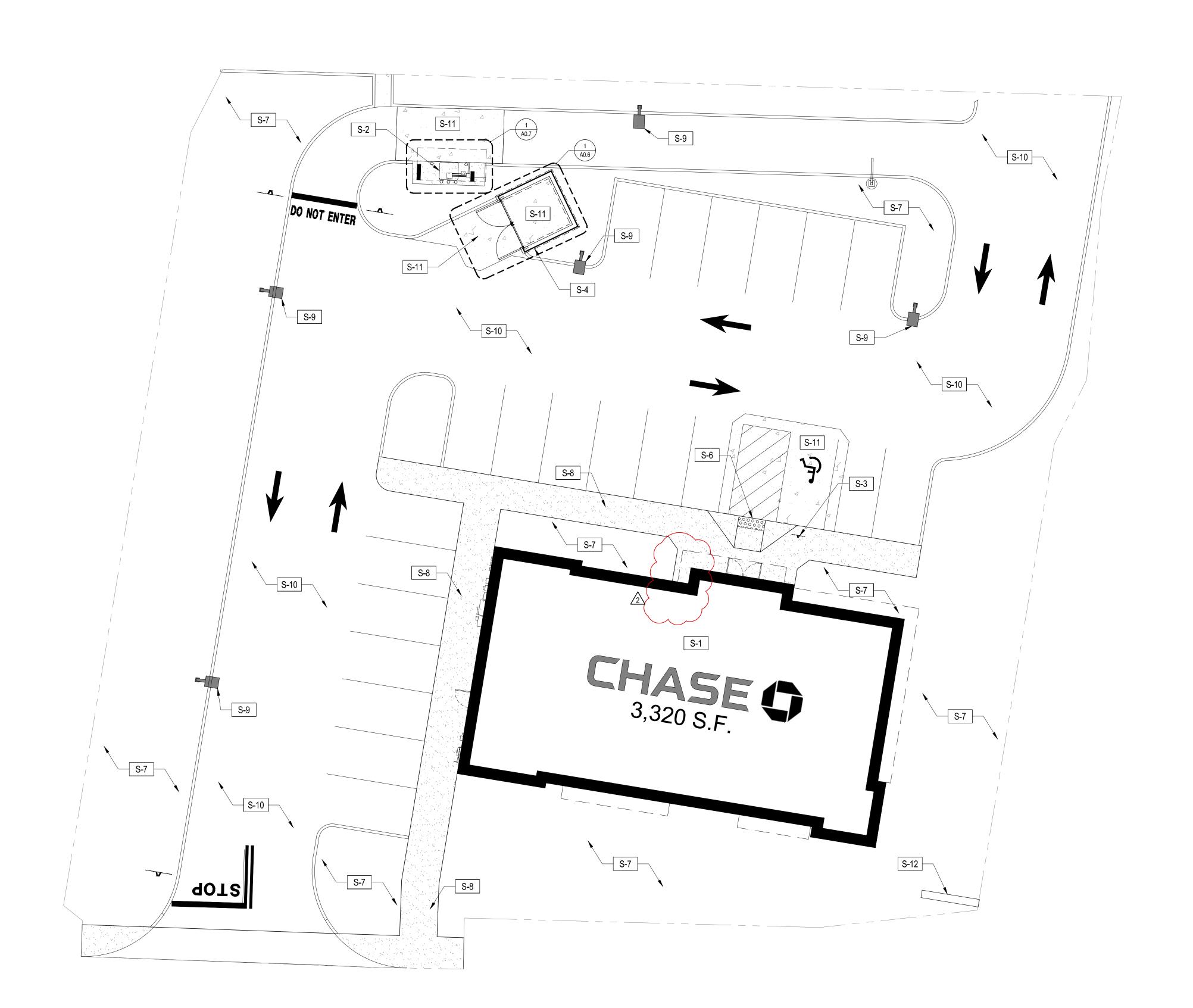
2020.12.21 PERMIT SET

PROJECT INFORMATION PROJECT NO: JPM.27135.001 **PROTOTYPE**

2020.12.21 DRAWN BY: S.KRAMER CHECKED BY: **B.LaSURS** VERSION: SE 1.00 SHEET TITLE

UL LISTING

SHEET NUMBER



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

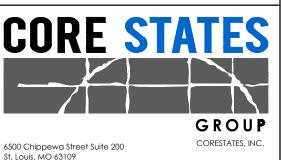
S-9 PROPOSED SITE LIGHTING

S-10 PROPOSED ASPHALT S-11 PROPOSED HEAVY DUTY CONCRETE PAD

S-12 PROPOSED MONUMENT SIGN

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI





6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320 www.core-states.com COA #: A-2014026908

ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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

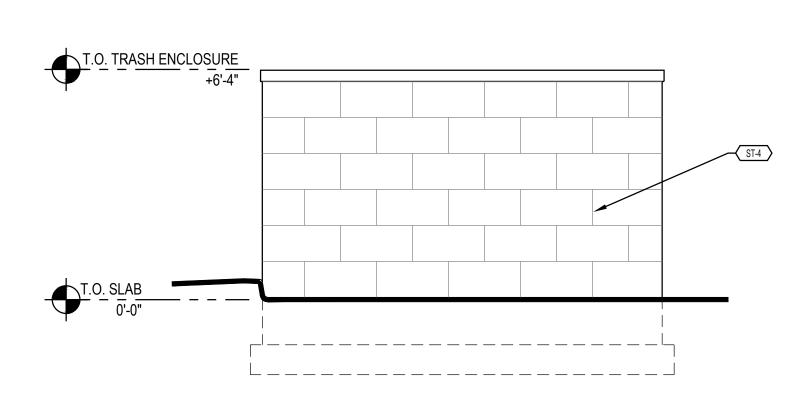
PRO.	JECT INFO	ORMATION	
PRO	DJECT NO:	JP	M.27135.001
DA	TE:		2020.12.21
PRO	OTOTYPE:		20.2
DR.	AWN BY:		C.THEBEAU
СН	ECKED BY:		B.LaSURS
VEF	RSION:		SE_1.00
SHEET	TITI F		

ARCHITECTURAL SITE PLAN

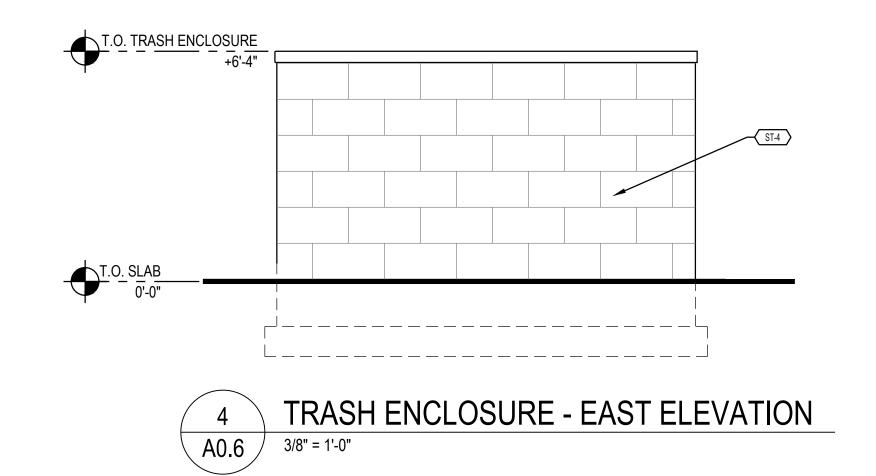
SHEET NUMBER

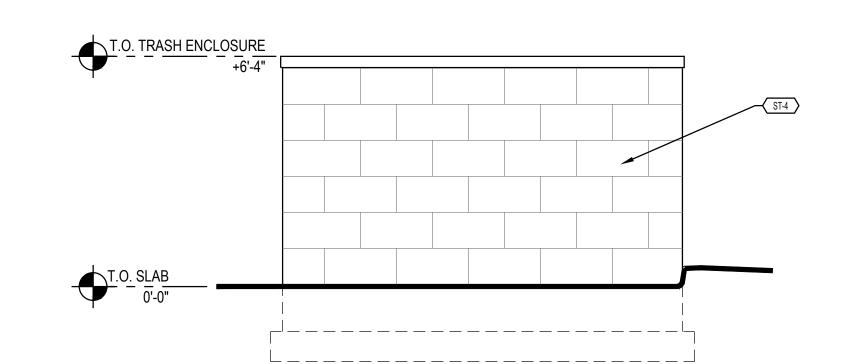
A0.5

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



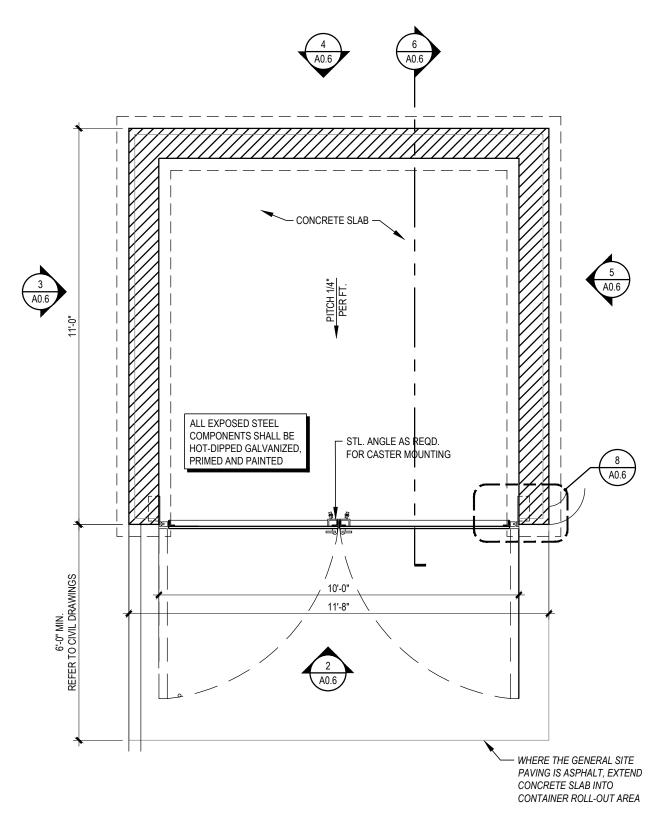
TRASH ENCLOSURE - SOUTH ELEVATION 3/8" = 1'-0"





TRASH ENCLOSURE - NORTH ELEVATION A0.6 3/8" = 1'-0" — 1 1/2" CORRUGATED GALVANIZED STEEL DECKING PRIMED AND BARREL HINGE WELDED TO
 EMBEDDED STEEL HINGE SUPPORT ANGLE → GATE HARDWARE- REFER TO DOOR HARDWARE SCHEDULE L 2" x 2" x 3/8" STEEL ANGLE GATE FRAME- PRIME AND PAINT EPT-2

TRASH ENCLOSURE - WEST ELEVATION



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



GROUP CORESTATES, INC. 6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



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

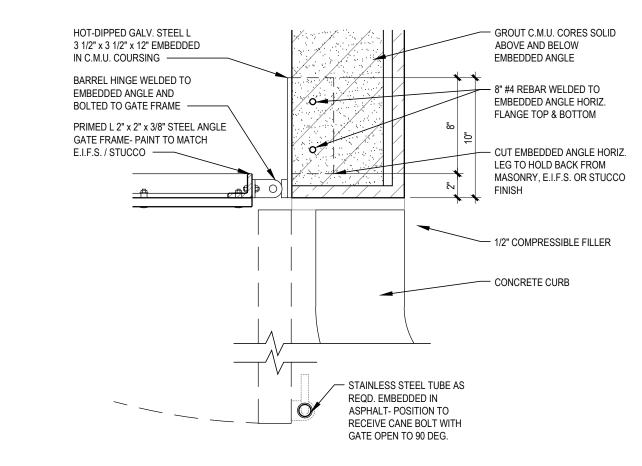
PROJECT INFORMATION PROJECT NO:

JPM.27135.001 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

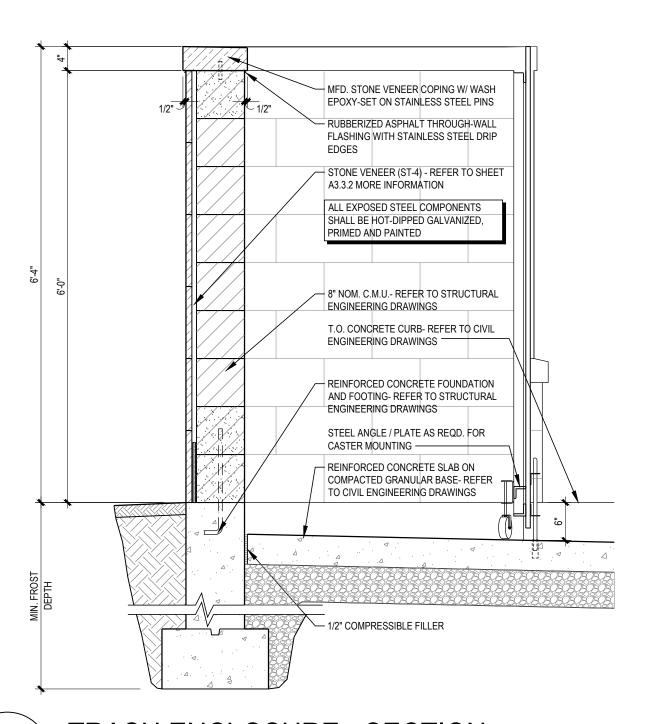
TRASH ENCLOSURE **DETAILS**

SHEET NUMBER

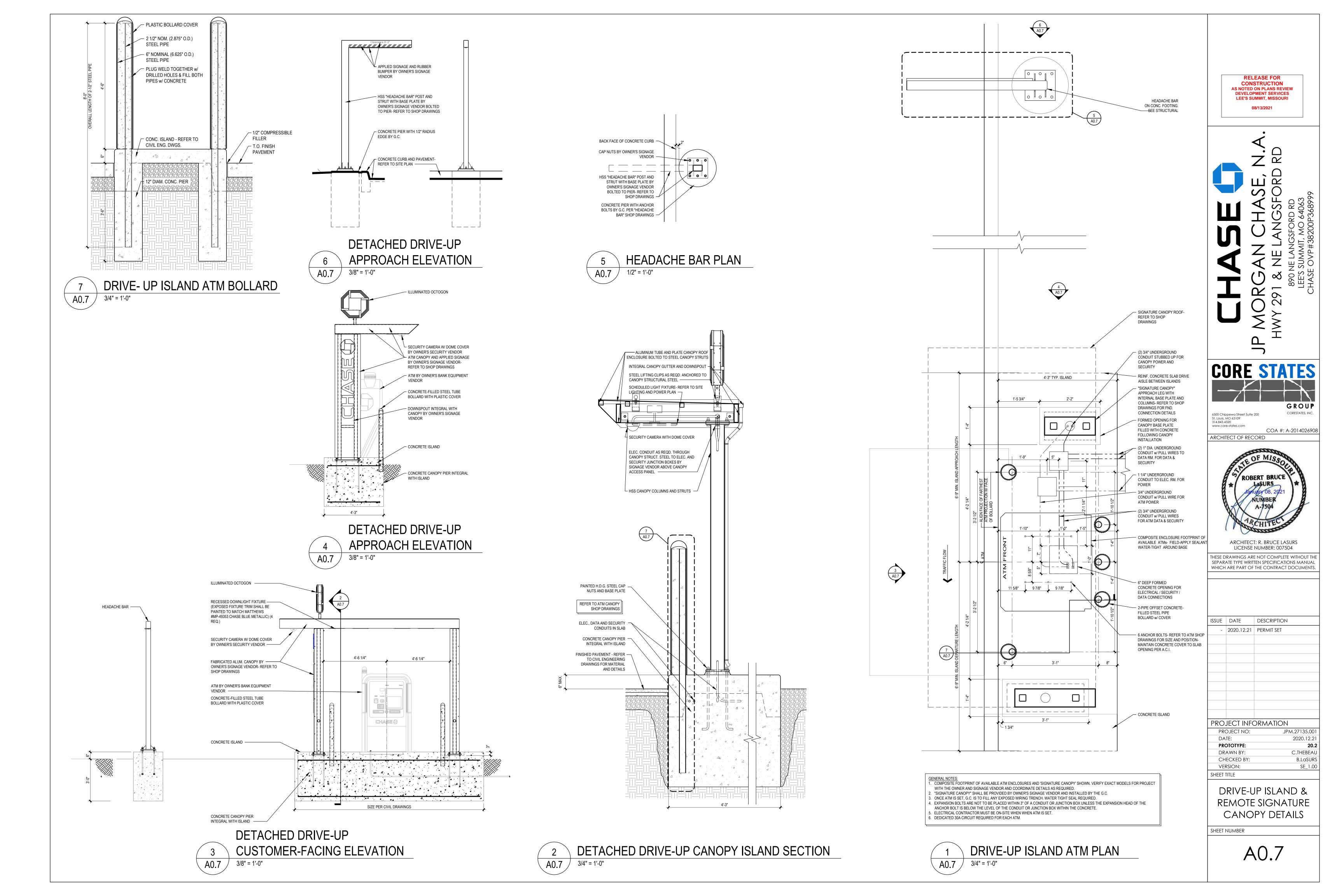
A0.6



TRASH ENCLOSURE - CORNER DETAIL 1 1/2" = 1'-0"



TRASH ENCLOSURE - SECTION



gan Chase\Lee's Summit, MO (Hwy 291 and SE Langford Rd.)-JPM.27135.001` Iovember 9, 2020 12:51:30 PM

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

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

ACCESSIBILITY NOTES

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

DISCREPANCIES. HE SHALL ALSO PAY SPECIAL ATTENTION TO ITEMS

B. REFER TO ARCHITECTURAL FLOOR PLANS FOR BUILDING

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

D. TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING

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".

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

. 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

INTERIOR DOORS SHALL NOT EXCEED 5 LBS. 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

NOT EXCEED 8.5 LBS. MAXIMUM FORCE REQUIRED TO OPEN

LEADING EDGE OF THE DOOR. . 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.

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

. SIGNAGE HEIGHT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ACCESSABILITY M. RESTROOM SIGNAGE SHALL BE MOUNTED ON THE WALL

ADJACENT TO THE LATCH SIDE OF THE RESPECTIVE RESTROOM I. IF FIRE ALARM SYSTEMS ARE REQUIRED, REFER TO FIRE ALARM DRAWINGS FOR PULL STATIONS AND STROBE MOUNTING HEIGHTS

AND LOCATIONS. D. 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 V	V/O AUT	OMATIC SPRIN	NKLER SYSTEM

LIFE SAFETY LEGEND

DISTANCE (FEET) FROM START POINT

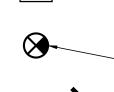
TOTAL LENGTH OF EXIT TRAVEL

COMMON PATH OF EGRESS TRAVEL

DISTANCE (FEET) FROM START POINT

EXIT SIGN (SEE ELECTRICAL SHEETS)

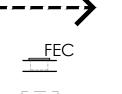
88'-0" / 2 = 44'- 0" 51'-8"



—— LOCATION OF EXIT TEXT EXIT TRAVEL DISTANCE

FIRE EXTINGUISHER CABINET

(36" CLEAR WIDTH MIN.)



IISA INTERNATIONAL SIGN OF ACCESSIBILTY



EGRESS CAPACITY LEGEND

Α	OCCUPANT LOAD AT EXIT (# OF OCCUPANTS / # DOORS
В	REQUIRED EXIT WIDTH [0.2" x PER OCCUPANT - (INCHES)]
С	PROVIDED EXIT WIDTH (INCHES)

WALL LEGEND



NEW 1-HR RATED WALL CONSTRUCTION

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021



St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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PROJECT INFO	ORMATION
PROJECT NO:	JPM.27135.
DATE:	2020.12
PROTOTYPE:	2
DRAWN BY:	C.THEBE

SHEET TITLE LIFE SAFETY &

ACCESSIBILITY PLAN

B.LaSURS

SE_1.00

SHEET NUMBER

CHECKED BY:

VERSION:

A1.1.0



109 PRINT/FILE RM

117 LAO / ACCESS TELLER/

ATM & AHD RM.

L — — — — J

RESTROOM T

RESTROOM 2

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(OFFICE)

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r----1

2.4" B

100 24-HOUR TRANSACTION

MAIN

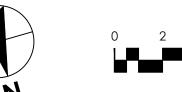
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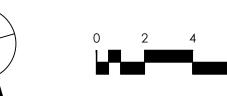
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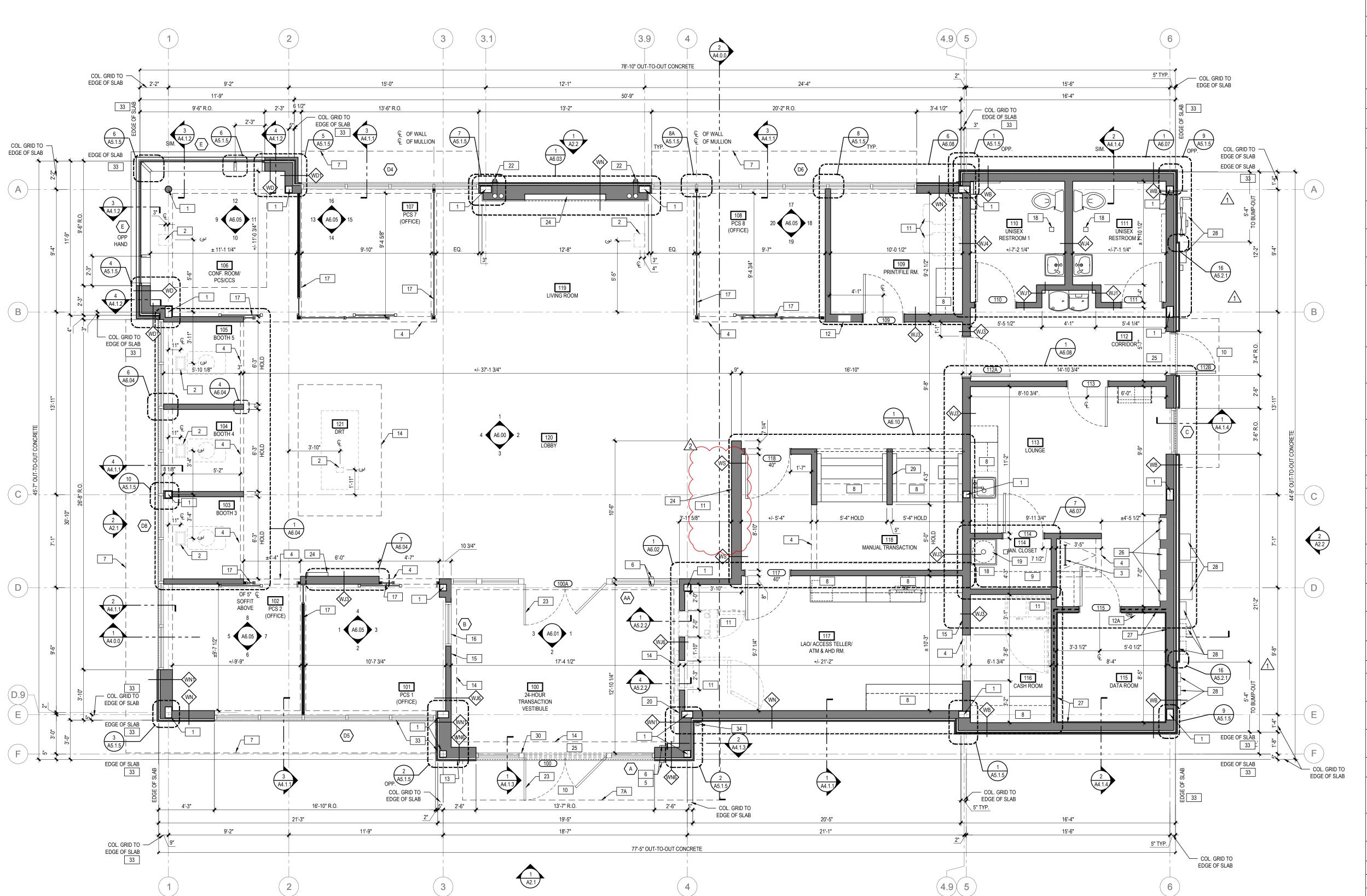
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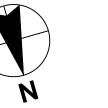
121 DRT











GENERAL FLOOR PLAN NOTES

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

FLOOR PLAN KEYNOTES

- STRUCTURAL COLUMN: COORDINATE WITH STRUCTURAL ENGINEERING DRAWINGS
- POWER DATA FLOOR BOX: REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION, COORDINATE LOCATIONS WITH STRUCTURAL DRAWINGS.
- ROOF ACCESS LADDER & SCUTTLE: REFER TO ROOF PLAN AND DETAIL AS NOTED
- 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.
- CARD READER: REFER TO EXTERIOR ELEVATIONS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- AUTOMATIC DOOR OPERATOR SYSTEM: REFER TO
- ELEVATIONS AND DOOR SCHEDULE.
- SUNSHADE SYSTEM: KAWNEER SUNSHADE.
- 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.

- CUSTOM SHOP-FABRICATED BUILT-IN MILLWORK: RFER TO INTERIOR ELEVATIONS - SUBMIT SHOP DRAWINGS AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL.
- 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
- 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. 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.
- 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. 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
- DEMOUNTABLE PARTITION SYSTEM WITH INTEGRAL DOORS AND POWER, DATA AND SECURITY CONDUIT SYSTEMS, ANCHORED TO BUILDING WALLS, SUBFLOOF AND BULKHEADS
- FLOOR DRAIN: REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 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
- 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

SHEET NUMBER

LEE'S SUMMIT, MISSOURI 08/13/2021

RELEASE FOR

CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES

GROUP CORESTATES, INC.

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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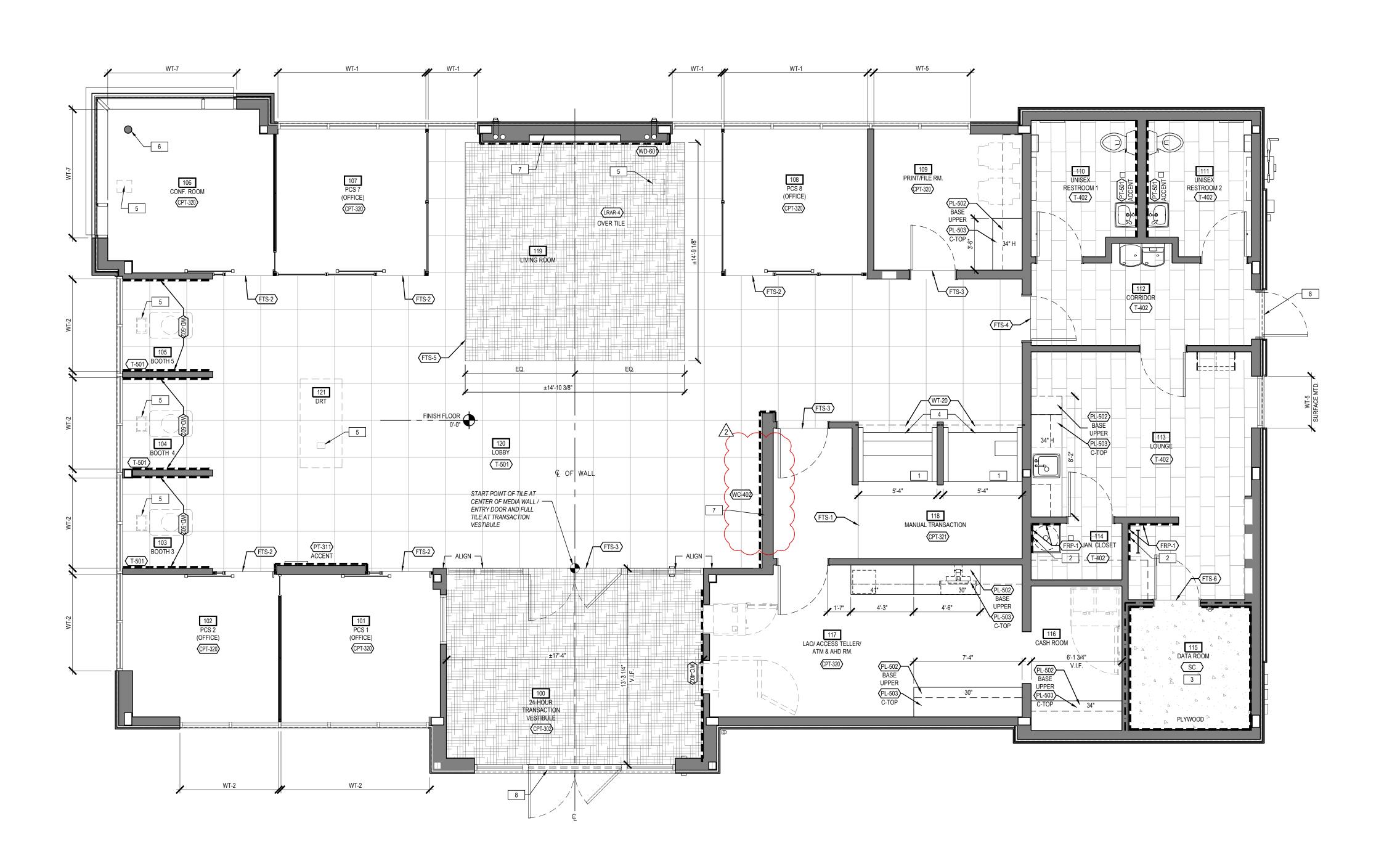
2 2021.06.03 PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

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

SHEET TITLE

CONSTRUCTION FLOOR PLAN

A1.1.1



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
- OF THE CARPET TILE BORDER. D. AREA RUG TO BE INSTALLED ASHLAR. TRIM EXCESS PIECES AS NECESSARY.

EDGING TO BE SECURED ON THE OUTSIDE PERIMETER

- 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

DOUBLE ROLLER SHADE WT-7

- DOORS BETWEEN COATS. PAINT INTERIOR DIFFUSERS, REGISTERS, AND
- LOUVERS TO MATCH ADJACENT SURFACE. ROLLER SHADE FABRIC SELECTION VARIES BY REGION AND CLIMATE - ALL CONFERENCE ROOMS TO RECEIVE
- 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
- 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

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.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

08/13/2021



6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS

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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 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY:

B.LaSURS

SE_1.00

FINISH PLAN

SHEET NUMBER

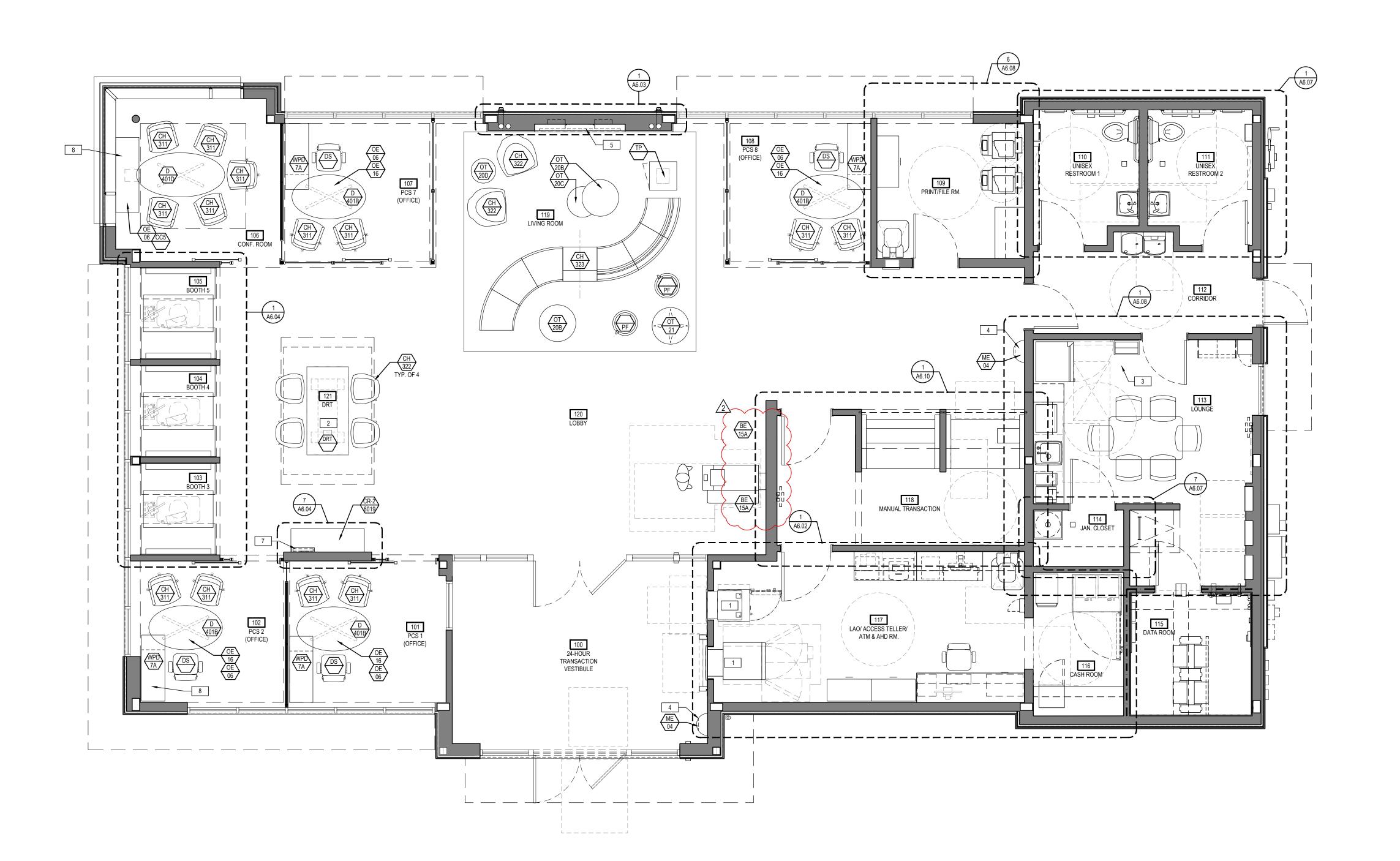
CHECKED BY: VERSION:

SHEET TITLE

A1.1.3







GENERAL FURNITURE & EQUIPMENT NOTES

- A GC TO COORDINATE IN FIELD BCM OFFICE LOCATION W/BRANCH MANAGEMENT FOR LOCATION OF HOLD-UPBUTTON.
- 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

ALL FLOOR-MOUNTED BANK EQUIPMENT WITH 24/7
 ACCESS REQUIRES FLOOR SLAB ANCHORS - REFER TO
 EQUIPMENT INSTALLATION MANUAL

 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

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021





6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320 www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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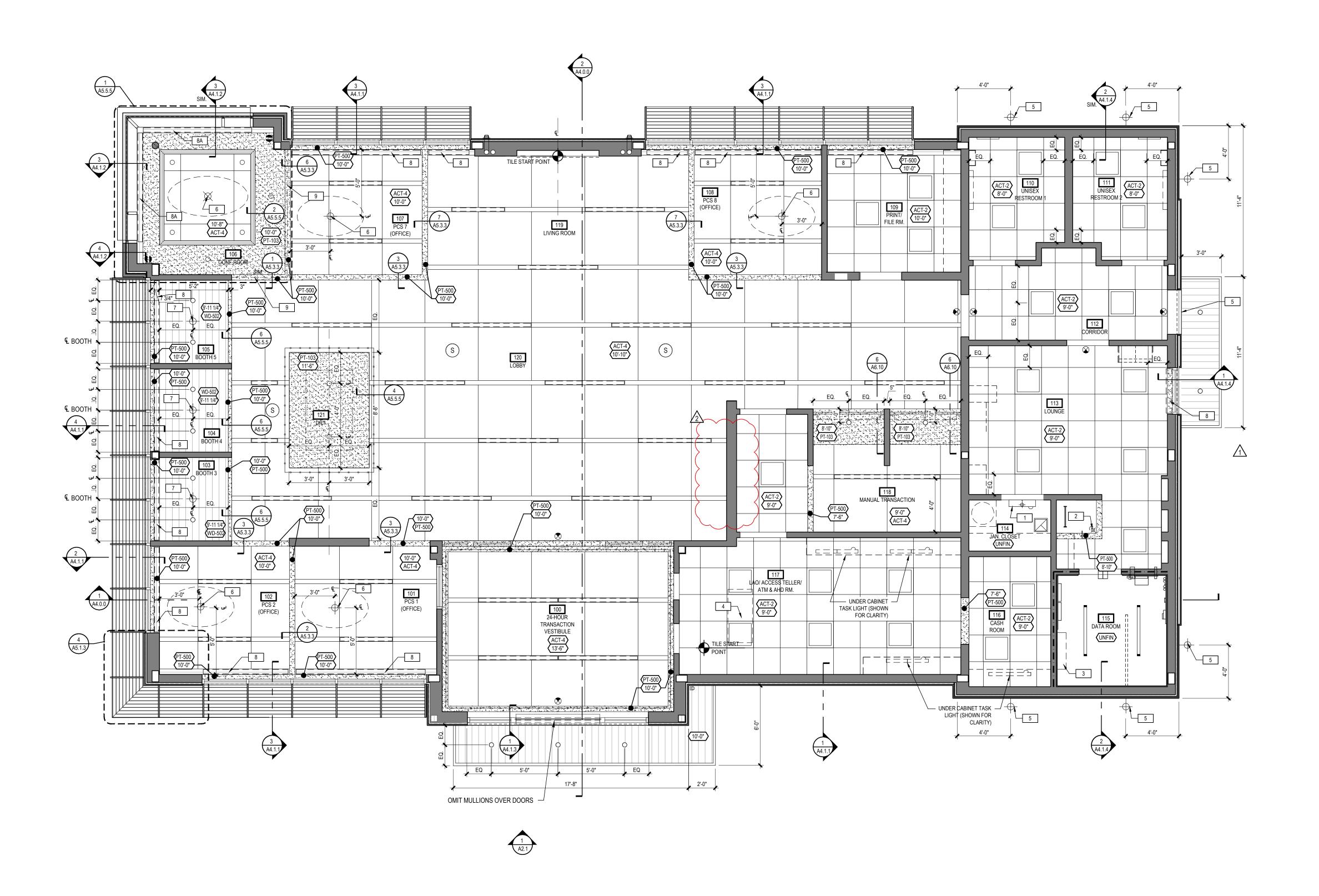
PRO.	JECT INFO	ORMATION	
PRO	DJECT NO:	JP <i>i</i>	M.27135.00
DA	TE:		2020.12.2
PRO	OTOTYPE:		20.
DR	AWN BY:		C.THEBEA
CH	ECKED BY:		B.LaSUR
VER	RSION:		SE_1.0
SHEET	TITLE		

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.
- 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.

- 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

RECESSED DOWNLIGHT:

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

REFER TO ELEC DWGS FOR ADDL INFO

WALL MOUNT LIGHT FIXTURE AT LADDER:

EXTERIOR SCONE LIGHT:

WALL WASHER: REFER TO ELEC DWGS FOR ADDL INFO

REFER TO ELEC DWGS FOR ADDL INFO

DECORATIVE PENDANT: REFER TO ELEC DWGS FOR ADDL INFO

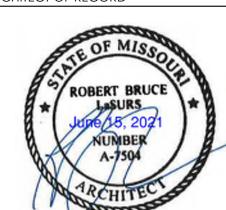
RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 08/13/2021





6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



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

REFER TO ELEC DWGS FOR ADDL INFO 1 2021.04.20 STRUCTURAL STEEL REV 2 2021.06.03 PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE 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

CEILING MOUNTED SPEAKER: COORDINATE LOCATIONS W/ VENDOR

—⊸— LED ACCENT LIGHTING REFER TO ELEC DWG. FOR ADDL INFO 5/8" GYPSUM BOARD

2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: CHECKED BY: B.LaSURS VERSION: SE_1.00 SHEET TITLE

JPM.27135.001

PROJECT INFORMATION

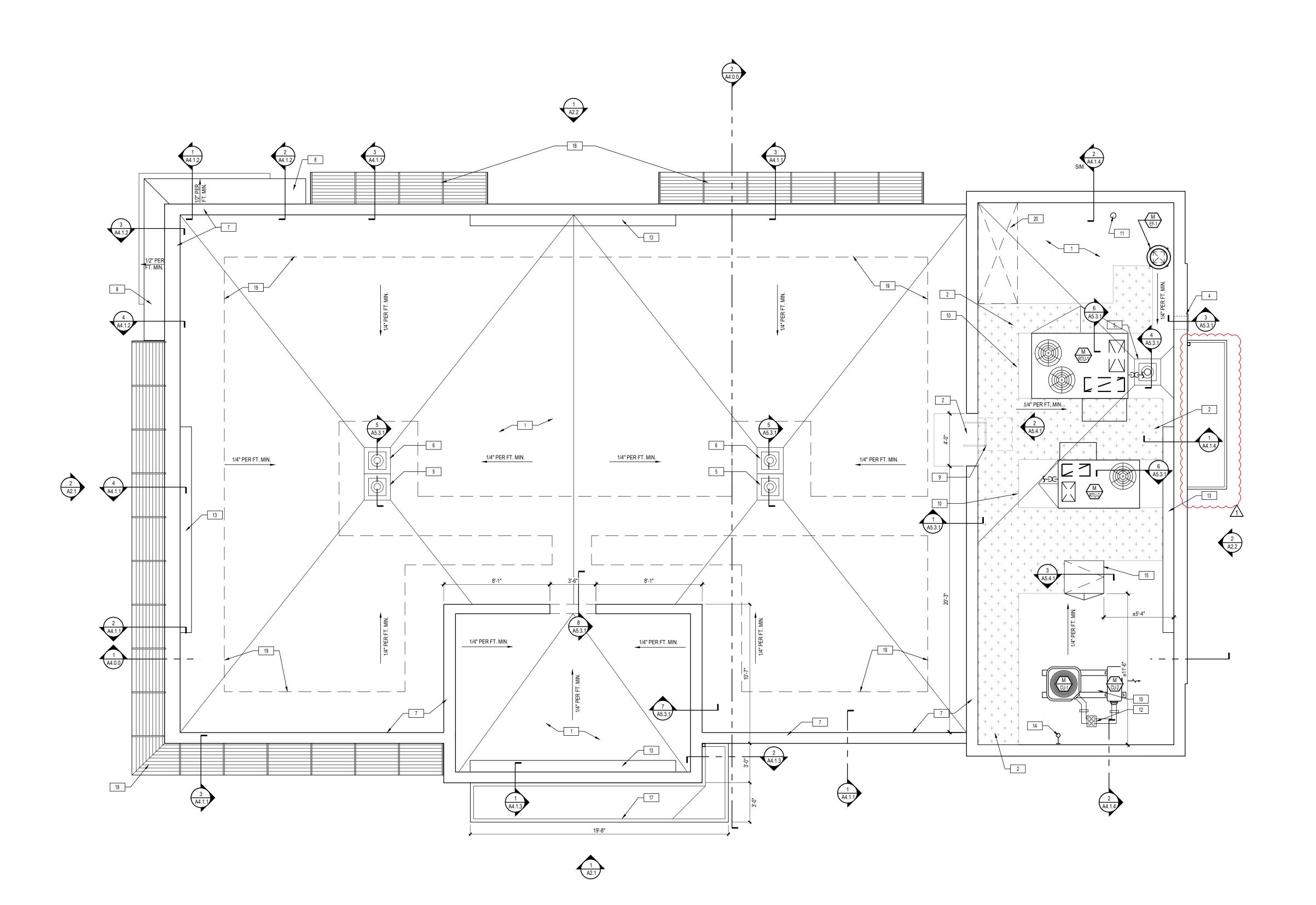
PROJECT NO:

REFLECTED **CEILING PLAN**

SHEET NUMBER

A1.2.1





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.

PIPE PENETRATION: REFER TO MECH. & PLUMBING DWG'S PRE-FABRICATED WATER-TIGHT SURFACE-ADHERED ROOFING PORTAL COMPATIBLE WITH ROOFING MATERIAL.

SCUPPER:

WATER-TIGHT PRE-FINISHED ALUMINUM THROUGH-WALL DRAINAGE CHANNEL- REFER TO DETAILS AS NOTED PAINT TO MATCH ADJACENT WALL FINISH.

ROOF DRAIN:

METAL DRAIN PAN AND BASKET ASSEMBLY WITH CLAMP RING SECURED WATER-TIGHT TO ROOFING MEMBRANE-REFER TO PLUMBING FIXTURE SCHEDULE.

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.

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.

PLUMBING STACK VENT:

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.

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.

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 MEMBRANEPROVIDE 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.

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

ARCHITECT OF RECORD

SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE

ROBERT BRUCE

GROUP

COA #: A-2014026908

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/13/2021

ISSUE DATE DESCRIPTION

- 2020.12.21 PERMIT SET

1 2021.04.20 STRUCTURAL STEEL REV

PROJECT INFORMATION

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

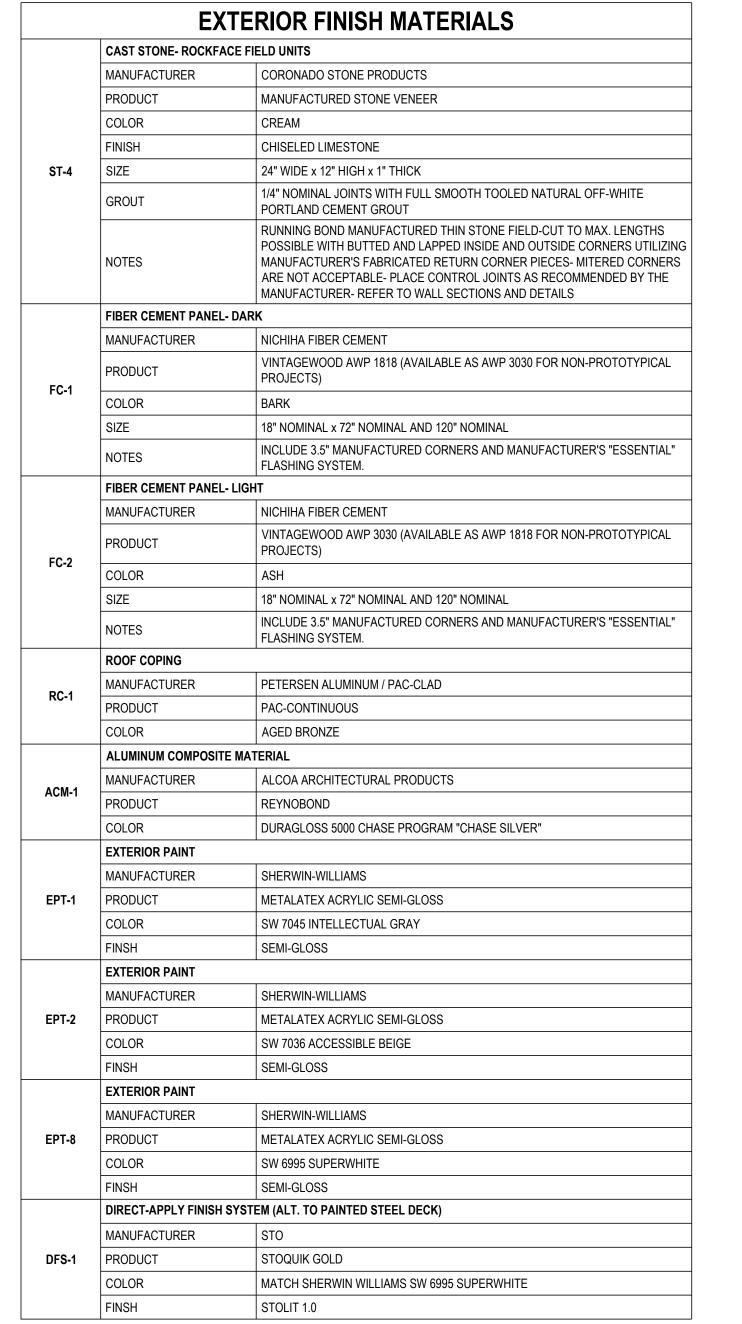
ROOF PLAN

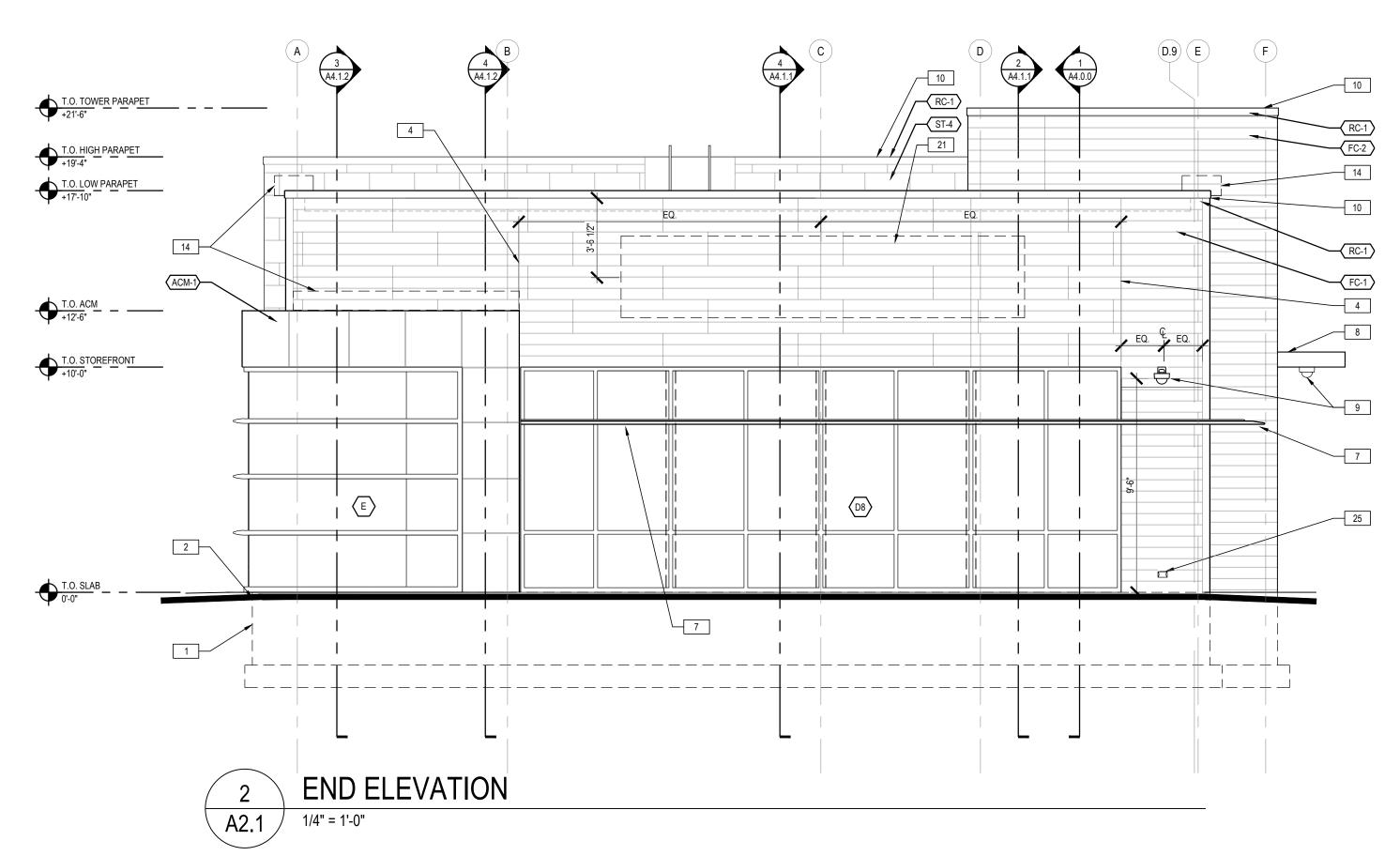
SHEET NUMBER

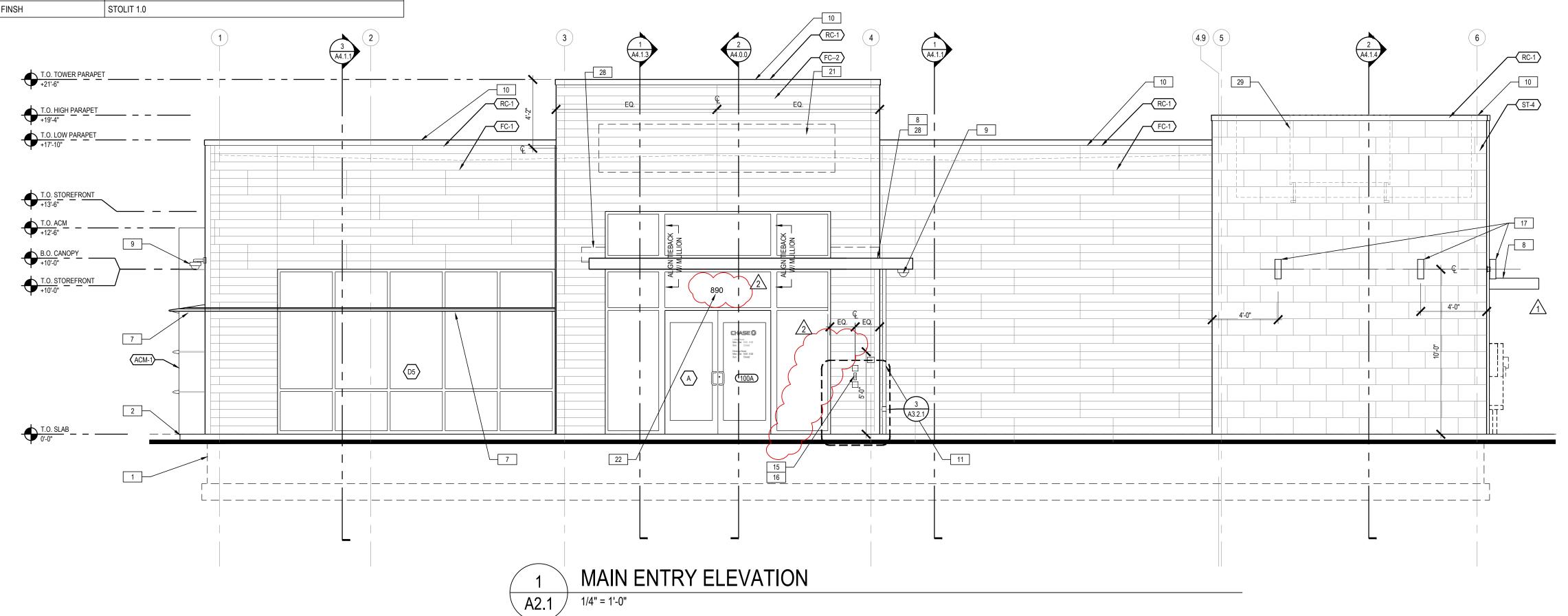
A1.3.1

1 ROOF PLAN 1.3.1 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

CONCRETE FOOTINGS / FOUNDATIONS: REFER TO STRUCTURAL DWGS.

CONCRETE CURB AND ISLANDS: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP CANOPY PLAN - SEE CIVIL DWGS FOR ADD'T INFO.

EMERGENCY ACCESS KEY BOX: NOT REQUIRED

TO VENEER COLOR

4 CONTROL / EXPANSION JOINT: VERTICAL ELASTOMERIC SEALANT JOINT CONTINUOUS THROUGH MASONRY VENEER - MATCH SEALANT COLOR

LANDSCAPE IRRIGATION SYSTEM: CONTROLLER, WIRELESS NETWORK CONNECTOR, J AND DEDICATED WP POWER OUTLET. REFER TO SITE PLAN AND ELECTRICAL DRAWINGS

LIGHTING TIMER SYSTEM PHOTO SENSOR: REFER TO ELECTRICAL DRAWINGS

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.

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

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:

(LANDSCAPE, WALK, ETC.)

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**

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

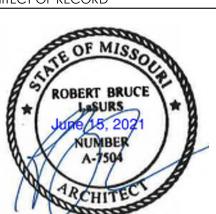
08/13/2021

III 🗠

GROUP CORESTATES, INC.

6500 Chippewa Street Suite 200 14.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



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 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: CHECKED BY: B.LaSURS VERSION: SE_1.00 SHEET TITLE

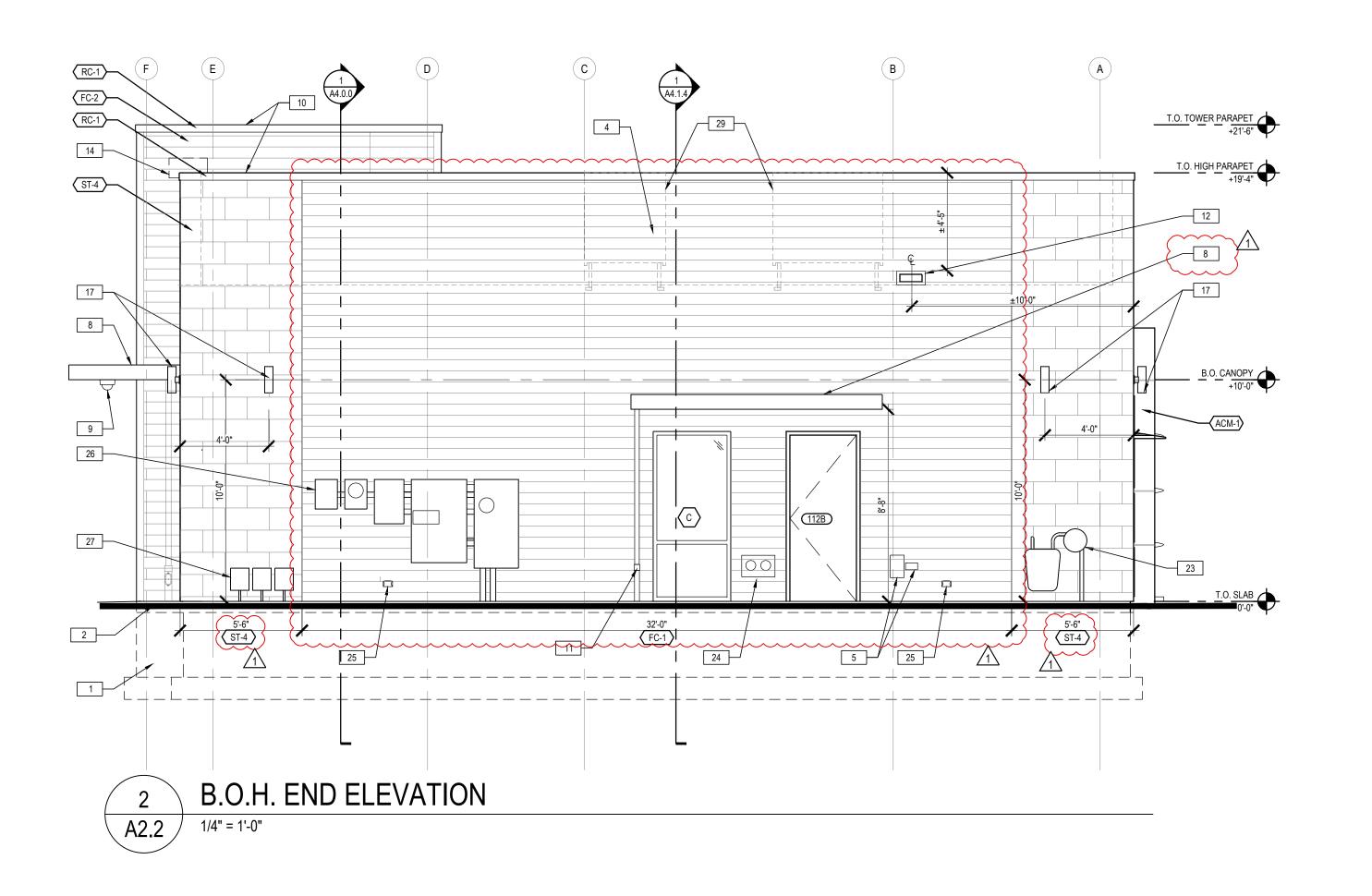
> **EXTERIOR ELEVATIONS**

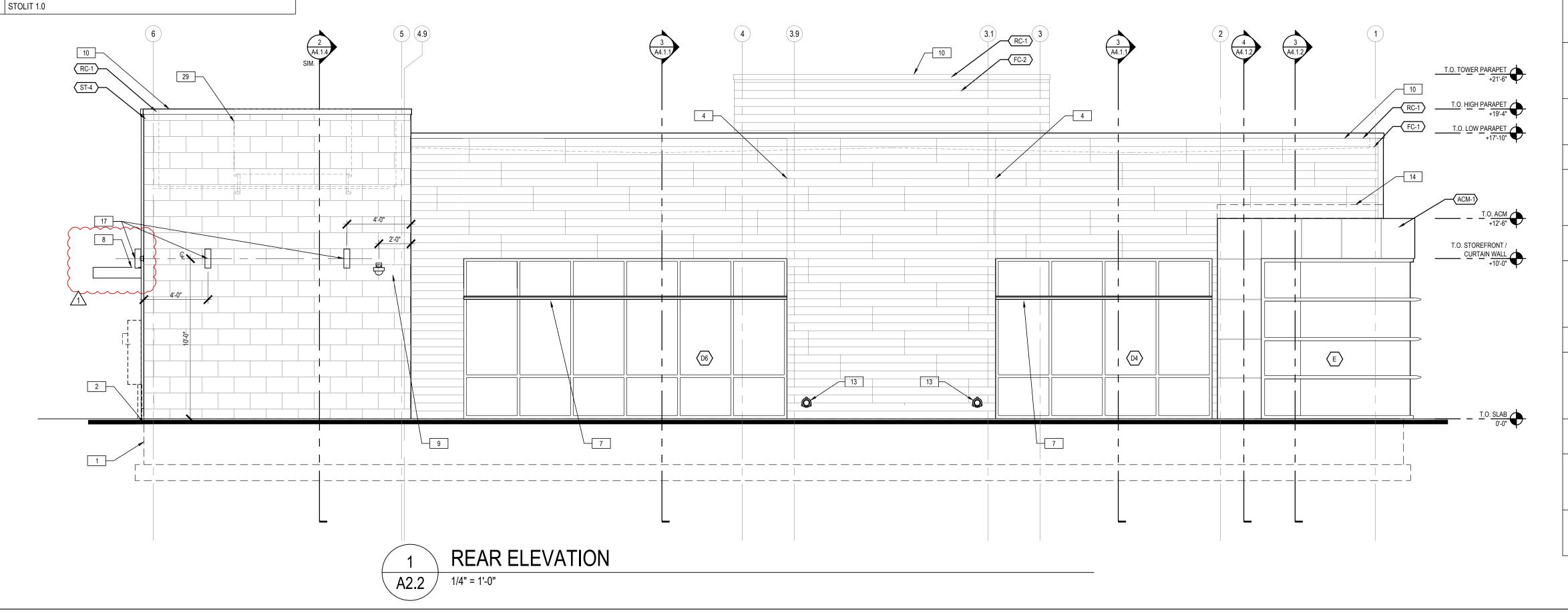
SHEET NUMBER

A2.1.0

	CAST STONE- ROCKFA	CE FIELD UNITS			
	MANUFACTURER	CORONADO STONE PRODUCTS			
	PRODUCT	MANUFACTURED STONE VENEER			
	COLOR	CREAM			
	FINISH	CHISELED LIMESTONE			
ST-4	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			
	FIBER CEMENT PANEL	- DARK			
	MANUFACTURER	NICHIHA FIBER CEMENT			
50 4	PRODUCT	VINTAGEWOOD AWP 1818 (AVAILABLE AS AWP 3030 FOR NON-PROTOTYPICAL PROJECTS)			
FC-1	COLOR	BARK			
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL			
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.			
	FIBER CEMENT PANEL	- LIGHT			
	MANUFACTURER	NICHIHA FIBER CEMENT			
FC-2	PRODUCT	VINTAGEWOOD AWP 3030 (AVAILABLE AS AWP 1818 FOR NON-PROTOTYPICAL PROJECTS)			
FU-Z	COLOR	ASH			
	SIZE	18" NOMINAL x 72" NOMINAL AND 120" NOMINAL			
	NOTES	INCLUDE 3.5" MANUFACTURED CORNERS AND MANUFACTURER'S "ESSENTIAL" FLASHING SYSTEM.			
	ROOF COPING				
RC-1	MANUFACTURER	PETERSEN ALUMINUM / PAC-CLAD			
10-1	PRODUCT	PAC-CONTINUOUS			
	COLOR	AGED BRONZE			
	ALUMINUM COMPOSIT	E MATERIAL			
ACM-1	MANUFACTURER	ALCOA ARCHITECTURAL PRODUCTS			
ACIVI-1	PRODUCT	REYNOBOND			
	COLOR	DURAGLOSS 5000 CHASE PROGRAM "CHASE SILVER"			
	EXTERIOR PAINT				
	MANUFACTURER	SHERWIN-WILLIAMS			
EPT-1	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS			
	COLOR	SW 7045 INTELLECTUAL GRAY			
	FINSH	SEMI-GLOSS			
	EXTERIOR PAINT				
	MANUFACTURER	SHERWIN-WILLIAMS			
EPT-2	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS			
	COLOR	SW 7036 ACCESSIBLE BEIGE			
	FINSH	SEMI-GLOSS			
	EXTERIOR PAINT				
	MANUFACTURER	SHERWIN-WILLIAMS			
EPT-8	PRODUCT	METALATEX ACRYLIC SEMI-GLOSS			
	COLOR	SW 6995 SUPERWHITE			
	FINSH	SEMI-GLOSS			
	DIRECT-APPLY FINISH	SYSTEM (ALT. TO PAINTED STEEL DECK)			
	MANUFACTURER	STO			
DFS-1	PRODUCT	STOQUIK GOLD			
	COLOR	MATCH SHERWIN WILLIAMS SW 6995 SUPERWHITE			
		+			

FINSH





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

CONCRETE FOOTINGS / FOUNDATIONS: REFER TO STRUCTURAL DWGS.

CONCRETE CURB AND ISLANDS: REFER TO ARCHITECTURAL SITE PLAN AND DRIVE-UP

CANOPY PLAN - SEE CIVIL DWGS FOR ADD'T INFO. 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, J AND DEDICATED WP POWER OUTLET. REFER TO SITE PLAN AND ELECTRICAL DRAWINGS

6 LIGHTING TIMER SYSTEM PHOTO SENSOR: REFER TO ELECTRICAL DRAWINGS

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.

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SECURITY CAMERA: PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS.

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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.

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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

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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

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JURISDICTION 31 | FIRE ALARM SYSTEM BELL AND STROBE: WHERE REQUIRED BY LOCAL CODE ONLY- VERIFY FINAL LOCATION WITH LOCAL AUTHORITIES HAVING JURISDICTION

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021



St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504 HESE 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

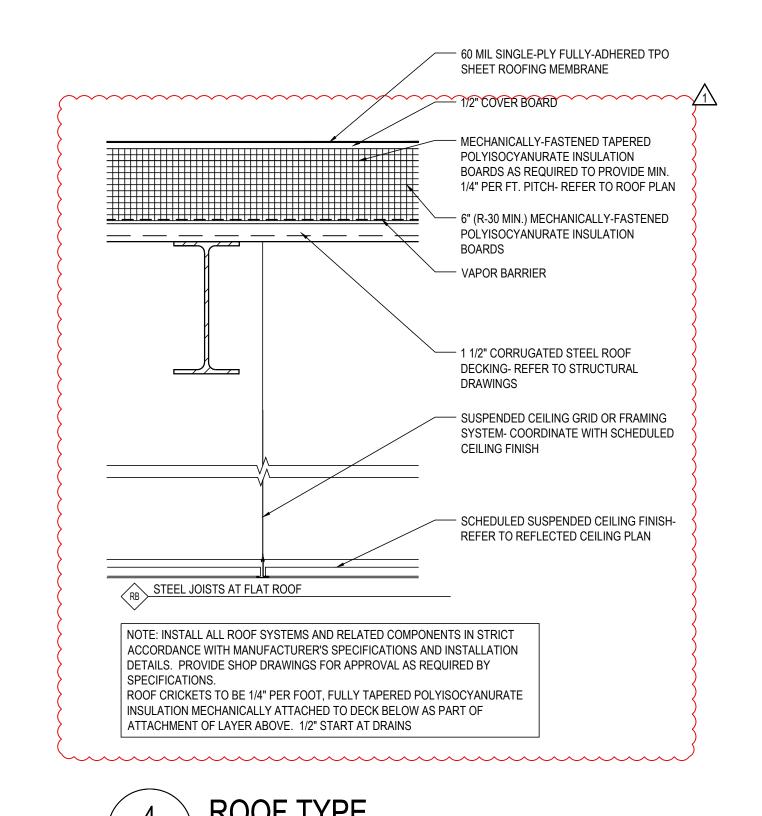
PROJECT INFORMATION PROJECT NO: JPM.27135.001

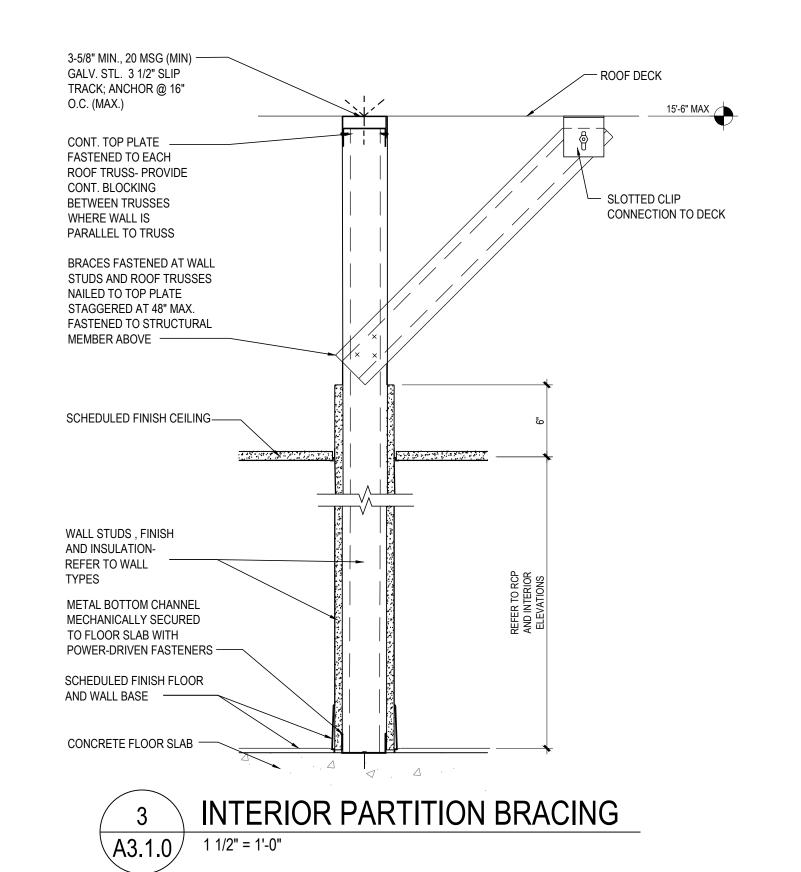
2020.12.21 PROTOTYPE: DRAWN BY: C.THEBEAU B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

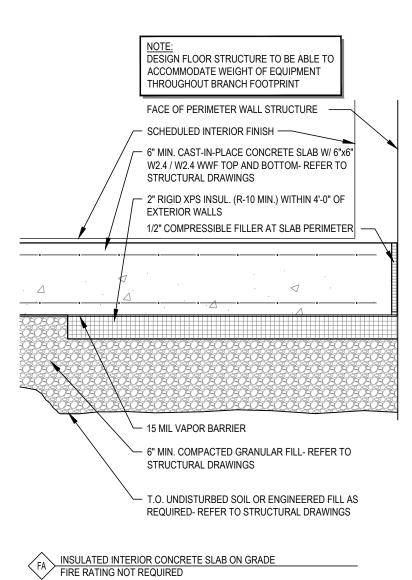
> **EXTERIOR ELEVATIONS**

SHEET NUMBER

A2.2.0







FAT FIRE RATING NOT REQUIRED

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

SAME AS FA' EXCEPT OMIT INSULATION

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.

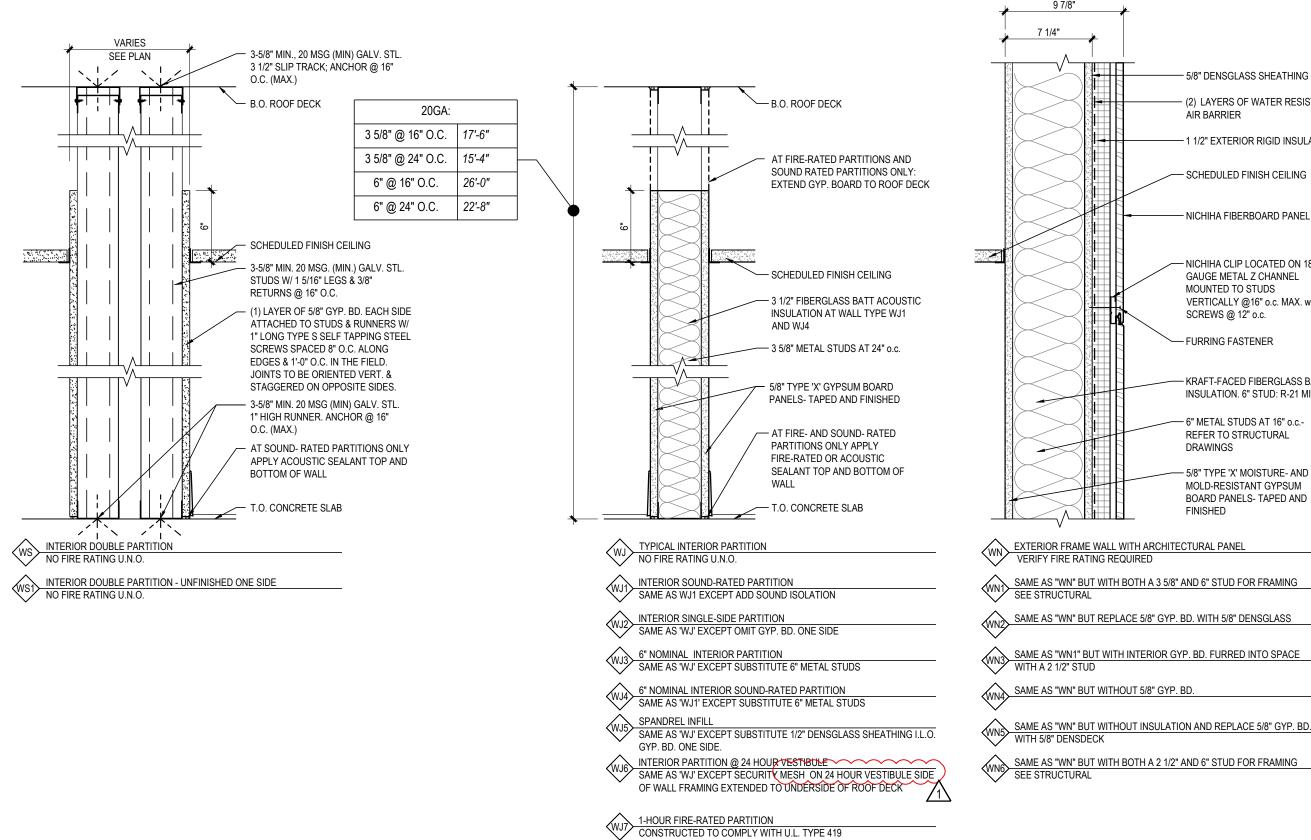
2 FLOOR TYPES A3.1.0 1 1/2" = 1'-0"

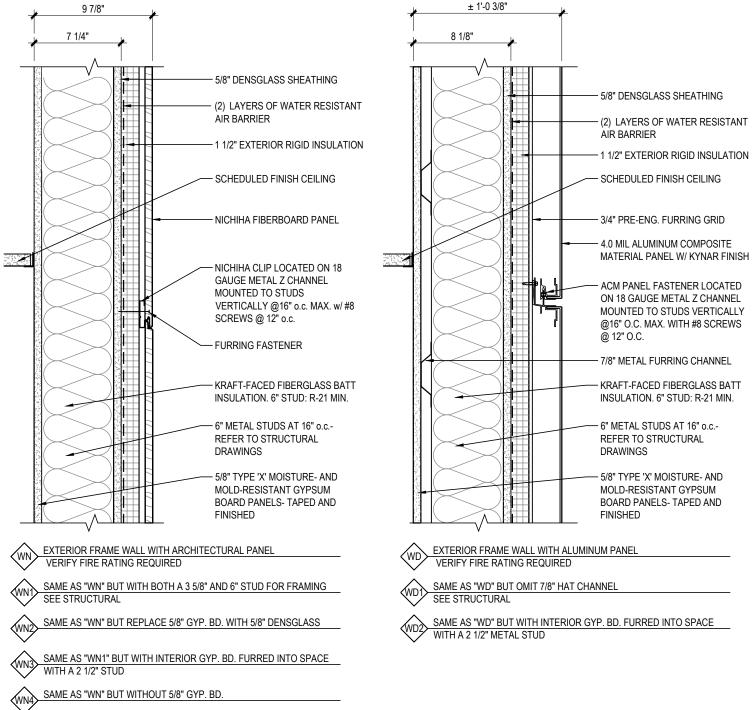
FOUNDATION WALL- INSULATED

SAME AS 'WA' EXCEPT ADD 2 1/2" METAL STUD FURRING AND 5/8"

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

GYP. BD. TO INTERIOR FACE





RE-ENGINEERED 3/4" FURRING GRID OPTION

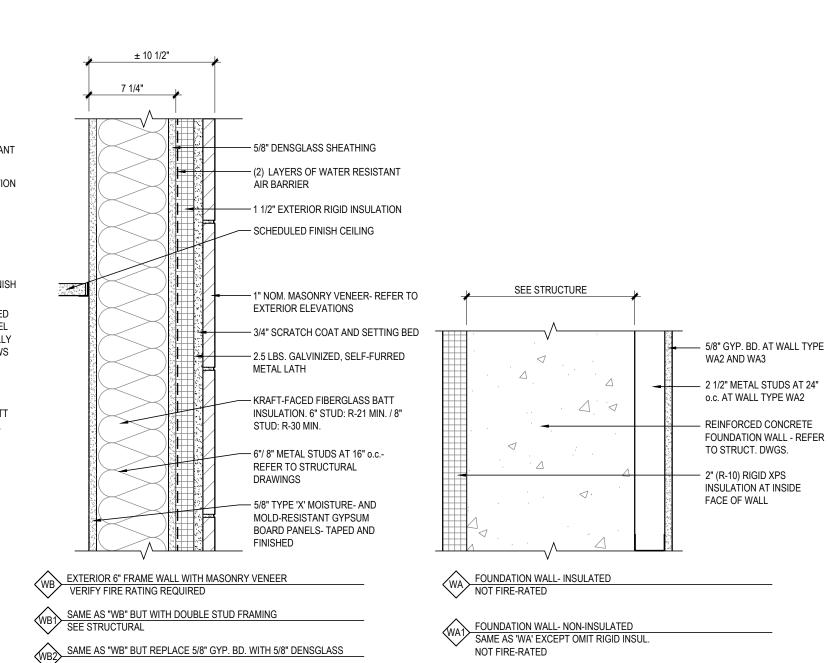
B. KNIGHT WALL SYSTEM MFI SYSTEM

SMARTci GREENGRIT SYSTEM

BRACKET & WALL SYSTEMS:

A. CASCADIA CLIPS

KNIGHT WALL WALL SYSTEMS CI SYSTEM



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

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

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

GROUP CORESTATES, INC.

COA #: A-2014026908

6500 Chippewa Street Suite 200

ARCHITECT OF RECORD

ROBERT BRUCE

ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504

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WHICH ARE PART OF THE CONTRACT DOCUMENTS.

DESCRIPTION

1 2021.04.20 STRUCTURAL STEEL REV

2020.12.21 | PERMIT SET

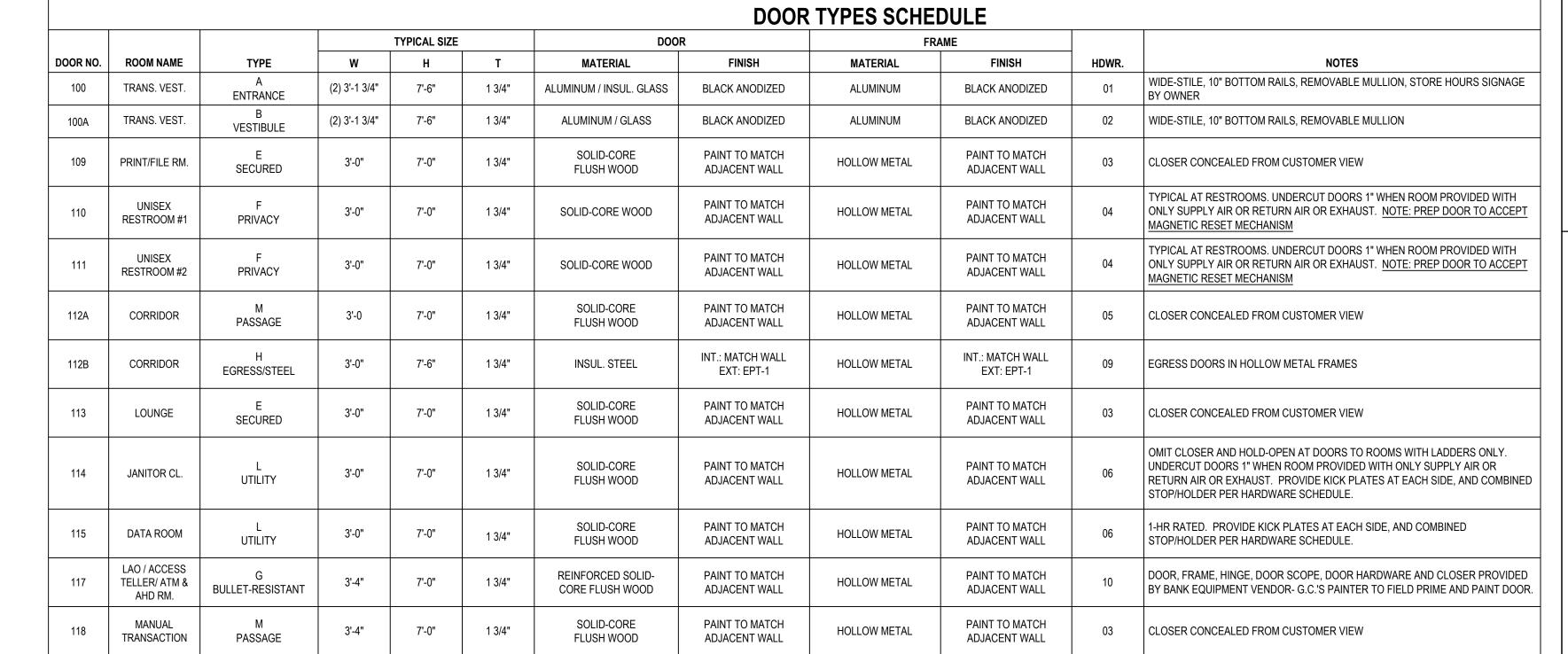
St. Louis, MO 63109 314.843.4320

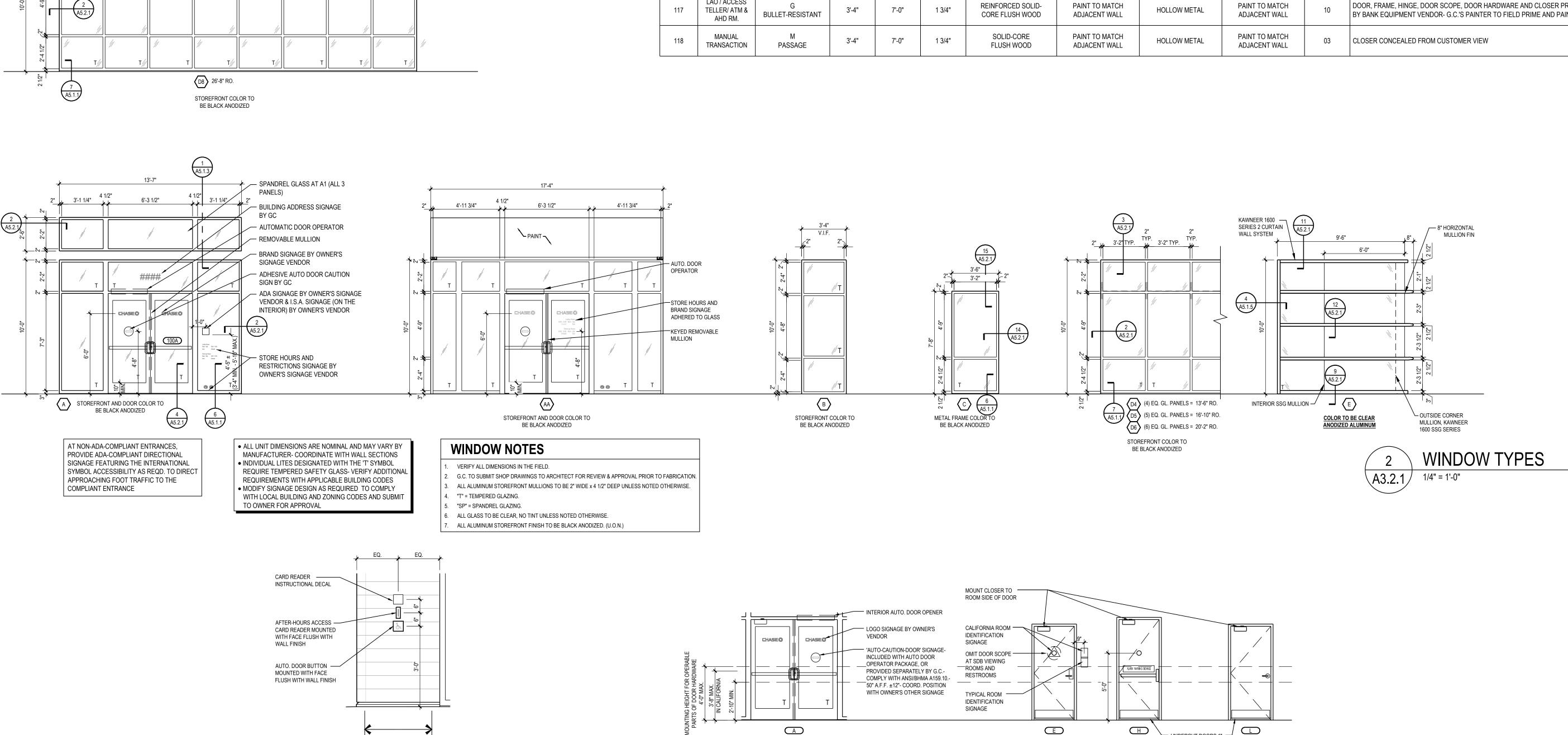
ISSUE DATE

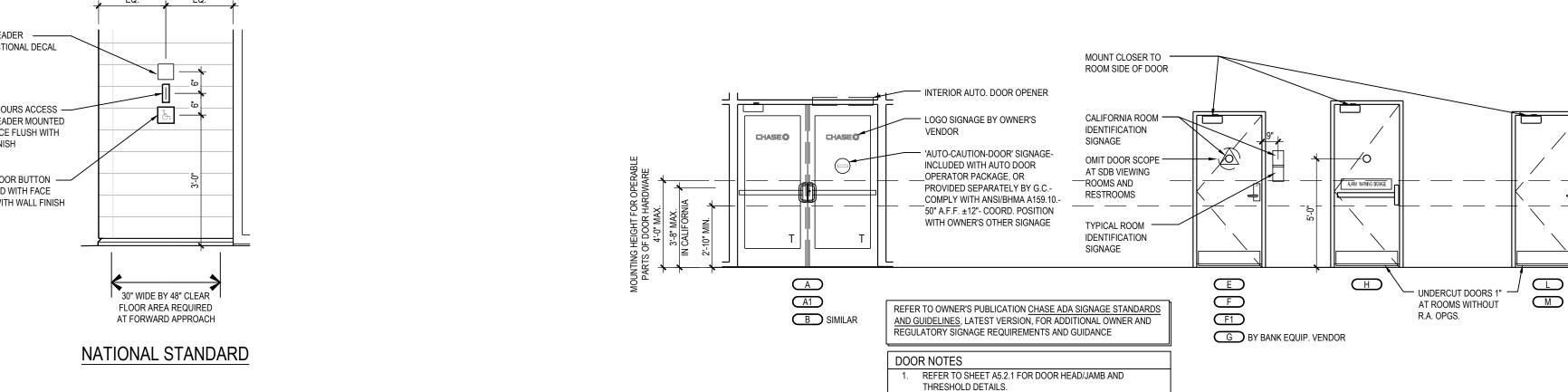
WALL TYPES FLOOR TYPES ROOF TYPES

SHEET NUMBER

A3.1.0







AUTO DOOR BUTTONS AND SIGNAGE

26'-8"

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** LEE'S SUMMIT, MISSOURI 08/13/2021

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ROBERT BRUCE LaSURS ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFO	ORMATION
PROJECT NO:	JPM.27135.00
DATE:	2020.12.2
PROTOTYPE:	20.
DRAWN BY:	C.THEBEA
CHECKED BY:	B.LaSUR
VERSION:	SE_1.0
SHEET TITLE	

DOOR TYPES SCHEDULE DOOR TYPES WINDOW TYPES

SHEET NUMBER

A3.2.1

	1	I	T	ARDWARE SCHEDU	
GROUP	COMPONENT	MFR.	MODEL	FINISH	NOTES
01 ENTRANCE / 01A ENTRANCE 2	BUTT HINGE (6) REMOVABLE MULLION	HAGER VON DUPRIN	BB1191 4.5x4.5 L1 NRP KR4854	MATCH STOREFRONT COLOR MATCH STOREFRONT COLOR	STOCK# 006597 NOTE: STANDARD CHASE CB2020 COLOR: STANDARD POWDER COAT BLACK PROVIDE REMOVABLE MULLION AT ALL NEW BUILDS. IF REMOVABLE MULLION CANNOT BE INSTALLED DUE TO SITE CONSTRAINTS, PROVIDE ALTERNATE HARDWARE: SEE NOTE 9
LIVITIANOL Z	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) OFFSET DOOR PULL (ALT.) (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL	PVC-COATED "STAY-COOL" PULLS FOR USE IN THE DESERT SOUTHWEST ONLY.
	POWER OPERATOR	TRIMCO LCN	8191191E-3-4.BPVC 4640 CS	PVC MATCH STOREFRONT COLOR	OMIT AT TYPE 01A. MATCH EXISTING STOREFRONT COLOR AT IN-LINE OR EXISTING BUILDING PROJE GC TO CONFIRM FINISH COLOR WITH ARCHITECT PRIOR TO ORDER. INCLUDE CONCEALED SWITCH B 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
	SURFMOUNT 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 WEATH SEAL INTEGRITY
	SEALS SWEEP- STANDARD	PEMKO PEMKO	297AS 2170 DV	MILL-FIN. ALUMINUM DARK BRONZE VINYL	
	SWEEP- STANDARD SWEEP- HIGH WIND CONDITIONS	PEMKO	315 DN	DARK BRONZE VINYL 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	BUTT HINGE (6)	HAGER	BB1191 4.5X4.5 L1 NRP	MATCH STOREFRONT COLOR	STOCK# 006597 NOTE: STANDARD CHASE CB2020 COLOR: STANDARD POWDER COAT BLAC
VESTIBULE	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	INCLUDE CONCEALED SWITCH DI ANIZEND DI ATE 224.2 (NOTE 5)
	POWER OPERATOR DOOR PUSHPLATES (2)	LCN	4640CS 8310-853T	MATCH STOREFRONT COLOR SATIN S.S	INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2 (NOTE 5) OMIT AT TYPE 01A
	DOOR PUSHPLATES (4)	LCN	(4" SQUARE) 8310-853T	SATIN 5.5 SATIN S.S	OMIT AT TYPE 01A
	CALIFORNIA PROJECTS ONLY DOOR PUSHPLATES (2)	LCN	(4" SQUARE) 8310-836T	SATIN S.S	OMIT AT TYPE 01A
	OPT. BAR AT CALIFORNIA PROJECTS ONLY SURFMOUNT PUSH PLATE ENCLOSURE	LCN	(6" x 36" BAR) 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
	KEY SWITCH	LCN	8310-806K		ARCHITECT. 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	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	652 SATIN CHROMIUM	
SECURED	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 OVERHEAD STOP	IVES GLYNN-JOHNSON	FS13 / FS17 410S	626 SATIN CHROMIUM 630 SATIN STAINLESS STEEL	AT DOORS OPENING AGAINST WALL; WITH R14 RISER AS REQUIRED 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	BUTT HINGE (3)	HAGER	BB1191 ANSI A22112 4.5x4.5	652 SATIN CHROMIUM	
PRIVACY	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
04A	SILENCERS BUTT HINGE (3)	IVES HAGER	SR64 BB1191 ANSI A22112 4.5x4.5	GRAY 652 SATIN CHROMIUM	
STANDARD AT	PRIVACY LOCK	SCHLAGE	ND50PD/C123/SPA	626 SATIN CHROMIUM	PUSH-BUTTON PRIVACY INTERIOR / KEYED EXTERIOR; NOTE 8
OB VIEWING RM.	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	OMIT AT SDB VIEWING ROOMS; DOOR-MOUNT ON ROOM SIDE, ADA COMPLIANT
ALTERNATE AT RESTROOMS	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
BY EXCEPTION	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
05	SILENCERS BUTT HINGE (3)	IVES	SR64	GRAY	
PASSAGE	BUTT HINGE (3) PASSAGE LATCH SET	HAGER SCHLAGE	BB1191 ANSI A2112 4.5x4.5 ND10S/SPA	652 SATIN CHROMIUM 626 SATIN CHROMIUM	INCLUDE MILLED GROOVES (/8SP) AT ELECTRICAL ROOM DOORS
	CLOSER	LCN	ND10S/SPA 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	SB6/	GPAV	

GRAY

SILENCERS

IVES

		BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	652 SATIN CHROMIUM	
$-$ L	UTILITY	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 REQUIF 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	BUTT HINGE (2)	HAGER	BB1191 ANSA A5112 NRP 4.5x4.5	630 SATIN STAINLESS STEEL	
	GRESS	POWER TRANSFER HINGE (1)	HAGER	BB1191 ANSIA5112 ETW 4.5 x 4.5	630 SATIN STAINLESS STEEL	4-CONDUCTOR THROUGH-WIRE POWER TRANSFER HINGE
1		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 REC
1		ALARM POWER SUPPLY	VON DUPRIN	PS-900 SERIES		INCLUDE INTERNAL BACKUP BATTERY; SEE NOTE 7
1		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	CONTINUOUS HINGE			SATIN CHROME/STAINLESS STEEL	BY BANK EQUIPMENT VENDOR
BULLET	Γ-RESISTANT	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	DARREL LINGER (4 DAIR RED LEAF)		2130.100	PAINT TO MATCH ADJ. FINISH	AT C.M.U. ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
	TRASH CLOSURE	BARREL HINGES (1 PAIR PER LEAF)	GUARDIAN	2135.100	PAINT TO MATCH ADJ. FINISH	AT STEEL POST ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
	GATE	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	BUTT HINGE (3)	HAGER	BB1191 4.5x4.5 L1 NRP	MATCH STOREFRONT COLOR	STOCK #006597
	IPLOYEE ITRANCE	MORTISE DEAD LATCH	SCHLAGE	L9080/C123/SPA	626 SATIN CHROMIUM	WHERE DOOR MFR'S LOCK BODY IS REQD., PROVIDE SCHLAGE LOCK CYLINDER, ANSI F07 "STORERC 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	

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-COMPATIBILITY 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.

WHEN REMOVABLE MULLION CANNOT BE INSTALLED IN THE EXTERIOR ENTRY DOOR, PROVIDE VON DUPRIN SERIES 99 WITH CONCEALED VERTICAL ROD EXIT DEVICE.

5. REFER TO AUTO DOOR CONTROL DIAGRAMS, SHEET E3.

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.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

MORGAN CHASE, N.A WY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 1EE'S SUMMIT, MO 64063 LEE'S SUMMIT, MO 64063

GROUP

CORESTATES

GROUP

CORESTATES, INC.

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320 www.core-states.com

COA #: A-2014026908

ROBERT BRUCE

January 08, 2021

NUMBER

A-150

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

ISSUE DATE DESCRIPTION
- 2020.12.21 PERMIT SET

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PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: C.THEBEAU

CHECKED BY: B.LaSURS

VERSION: SE_1.00

SHEET TITLE

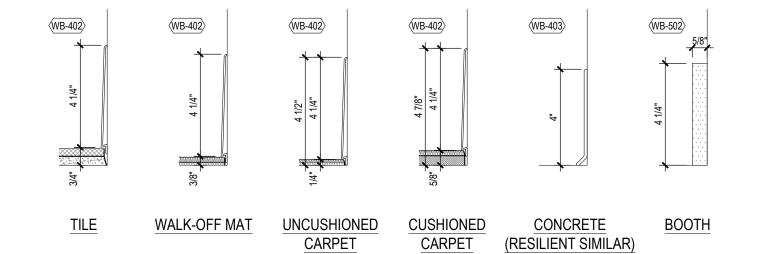
DOOR HARDWARE SCHEDULE

SHEET NUMBER

A3.2.2

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
	WD-601 L-500
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
	(NOTE 5)
MANUAL TRANSACTION MODULE FRONT PANELS	
MANUAL TRANSACTION MODULE COUNTER	(NOTE 5)
CEILING	ACT-4
SOFFITS- BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
	1.44
LIGHT FIXTURES- GENERAL	L-11
ILLUMINATED OCTAGON	PREFERRED
SCRIM	WT-20
CASUAL AND PRIVATE CONSULTATION SPAC	E (CCS, PCS)
FLOOR - GENERAL	CPT-320
WALL BASE	WB-400
WALLS	(NOTE 12)
WALLS - PARTIAL HEIGHT	(NOTE 12)
	DEMOUNTABLE WAL
GLAZING HARDWARE	SYTEM (NOTE 12)
	DEMOUNTABLE WAL
DOOR CLOSER COVER	SYTEM (NOTE 12)
CEILING	ACT-4
	DT 500
PCS/CMS BUI KHEADS	P1-500
PCS/CMS BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH	PT-500
PCS/CMS BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH	
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL	PT-500 L-500 L-410
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B)	PT-500 L-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM	PT-500 L-500 L-410 WT-1 / WT-2
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL	PT-500 L-500 L-410 WT-1 / WT-2
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL	PT-500 L-500 L-410 WT-1 / WT-2
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12)
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12)
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12)
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4 PT-500 PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4 PT-500 PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B)	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413 WT-7
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413 WT-7 T-501 WB-402
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12)
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12)
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT CEILING BOOTH BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502 WD-502 PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT CEILING BOOTH BULKHEADS	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) DEMOUNTABLE WAL SYTEM (NOTE 12) ACT-4 PT-500 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502 WD-502
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES - GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT CEILING BOOTH BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502 WD-502 PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES- PENDANT - PCS WINDOW SHADES: PCS / CMS (NOTE 6B) CONFERENCE ROOM FLOOR - GENERAL WALL BASE WALLS WALLS - PARTIAL HEIGHT GLAZING HARDWARE DOOR CLOSER COVER CEILING CONFERENCE BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL LIGHT FIXTURES- GENERAL LIGHT FIXTURES - ACCENT - CONFERENCE ROOM WINDOW SHADES: CONFERENCE (NOTE 6B) BOOTH FLOOR WALL BASE WALLS - ACCENT PAINT WALLS - WOOD ACCENT CEILING BOOTH BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALLS - WOOD ACCENT CEILING BOOTH BULKHEADS SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500 L-500 L-410 WT-1 / WT-2 CPT-320 WB-402 (NOTE 12) (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) DEMOUNTABLE WALL SYTEM (NOTE 12) ACT-4 PT-500 L-500 L-413 WT-7 T-501 WB-402 PT-501 (NOTE 12) WD-502 WD-502 PT-500 PT-500 PT-500

DINING ROOM TABLE (E	ORT)
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 O	R VAULT
FLOOR	CPT-320
WALL BASE	WB-402
WALLS - GENERAL	PT-500
CEILING	ACT-2
LIGHT FIXTURES	L-2
SDB VIEWING ROOM	1
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 6	В)
FLOOR- FIELD	T-402
WALLS - GENERAL	PT-500
WALL- VANITY	PT-501
WALL TILE	T-402
CEILING	ACT-2
LIGHT FIXTURES- GENERAL	L-2
NORK / PRINT / FILE / STORAGE ROOMS, LTOS AND Manual Transaction A	
FLOOR	CPT-320
1.2001.	WB-402
WALL BASE	VVD-4U/
WALL BASE WALLS	
WALLS	PT-500
WALLS MILLWORK	PT-500 PL-502 / PL-503
WALLS MILLWORK CEILING	PT-500 PL-502 / PL-503 ACT-2
WALLS MILLWORK CEILING LIGHT FIXTURES	PT-500 PL-502 / PL-503 ACT-2 L-2
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK OUNTER	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PT-500 PL-503
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE MILLWORK MILLWORK MILLWORK MILLWORK MILLWORK MILLWORK	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-503 PL-503
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS MILLWORK CEILING CEILING CEILING WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING CEILING	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-502 ACT-2
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-502 ACT-2 L-2 L-2
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO PEN T	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS SC (NOTE 14)
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADE FLOOR WALL BASE	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS SC (NOTE 14) WB-403
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES MILLWORK CEILING LIGHT FIXTURES MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADE FLOOR WALL BASE WALLS (NOTE 8)	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS SC (NOTE 14) WB-403 PT-500
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES FLOOR WALL BASE WALLS (NOTE 8) FLOOR SINK WALLS (NOTE 6)	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS SC (NOTE 14) WB-403 PT-500 FRP-1
WALLS MILLWORK CEILING LIGHT FIXTURES LAO (FORMERLY LTOS) / CASH ROOMS- OPEN TO I FLOOR WALL BASE WALLS MILLWORK CEILING LIGHT FIXTURES LOUNGE FLOOR WALL BASE WALLS MILLWORK COUNTER MILLWORK CEILING LIGHT FIXTURES MILLWORK CEILING LIGHT FIXTURES MILLWORK CEILING LIGHT FIXTURES JANITOR / DATA / ELECTRICAL/ LADE FLOOR WALL BASE WALLS (NOTE 8)	PT-500 PL-502 / PL-503 ACT-2 L-2 MANUAL TRANSACTION AREAS CPT-321 WB-402 PT-500 PL-502 / PL-503 ACT-2 L-2 T-402 WB-402 PT-500 PL-503 PL-503 PL-502 ACT-2 L-2 DER / ATM ROOMS SC (NOTE 14) WB-403 PT-500



TYP. WALL BASE

FTS-1 CARPET TO CUSHIONED CARPET
3" = 1'-0"

L DOOR OR FACE OF OPENING

€ DOOR OR FACE OF OPENING

SCHEDULED CUSHIONED -

JOHNSONITE LS-40-D SUBFLOOR LEVELING SYSTEM OR LIQUID-APPLIED SUBFLOOR FEATHERING AS

SCHEDULED CARPET -

SCHEDULED CARPET -JOHNSONITE LS-40-E SUBFLOOR LEVELING SYSTEM OR LIQUID-APPLIED SUBFLOOR

SCHEDULED TILE SET IN THINSET ADHESIVE

FEATHERING AS REQUIRED — CERAMIC TOOL CO. #14CAT-

SCHEDULED TILE SET IN

partitude de la companya de la compa

CSG-FTS-12 STAIR NOSING PUBLIC AREAS

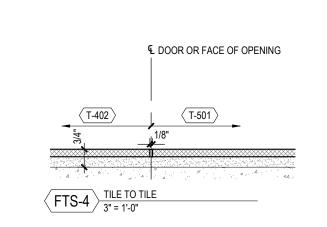
3" = 1'-0"

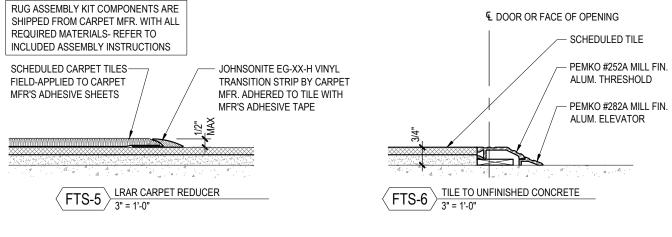
THINSET ADHESIVE

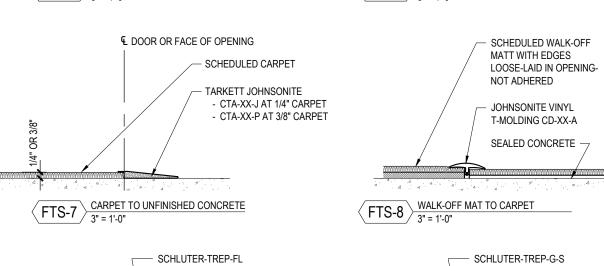
ACCENT PAINT LOCATION GUIDELINES:
REQUIRED AT:
WALLS WITH LETTERSETS
PREFERRED AT:
SOFFITS WITH LETTERSETS
BRAND FOCAL WALLS
eMERCH WALLS
"SO YOU CAN" FEATURE WALLS
 PAPER DOMINANT WALLS (EXCEPT BEHIND TELLER LINE)
LOBBY FOCAL POINTS
NOTES:
1. PREFERENCE TO TERMINATE ACCENT PAINT AT INSIDE CORNERS
2. REFER TO FINISH SCHEDULE FOR ACCENT PAINT COLOR

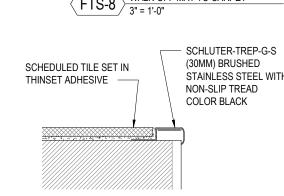
- PARTITION SYSTEM DOOR FRAME — PARTITION SYSTEM BASE TRACK

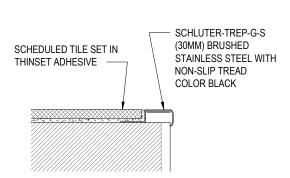
LOBBY	OFFICE
CERAMIC TOOL CO. #14 CAT IN CLEAR ANOD. ALUM. 1/16" TILE TO CARPI 3" = 1'-0"	JOHNSONITE LS-40-E SUBFLOOR LEVELING SYSTEM OR LIQUID-APPLIED SUBFLOOR FEATHERING AS REQUIRED SCHEDULED CARPET 2% MAX ET AT DEMOUNTABLE PARTITION

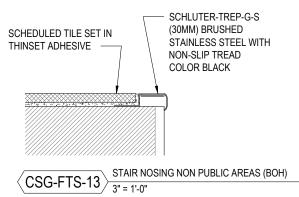


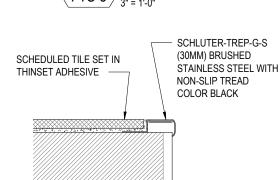


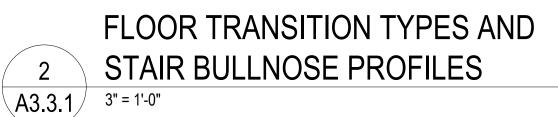




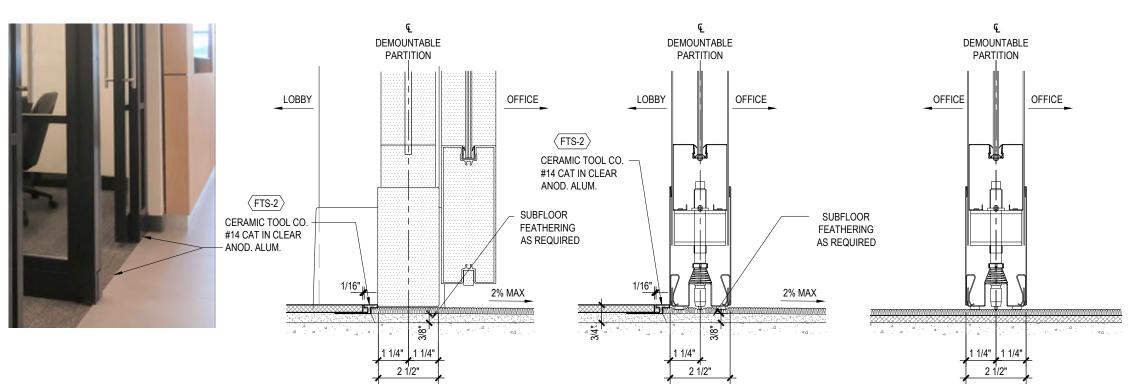








BRUSHED STAINLESS

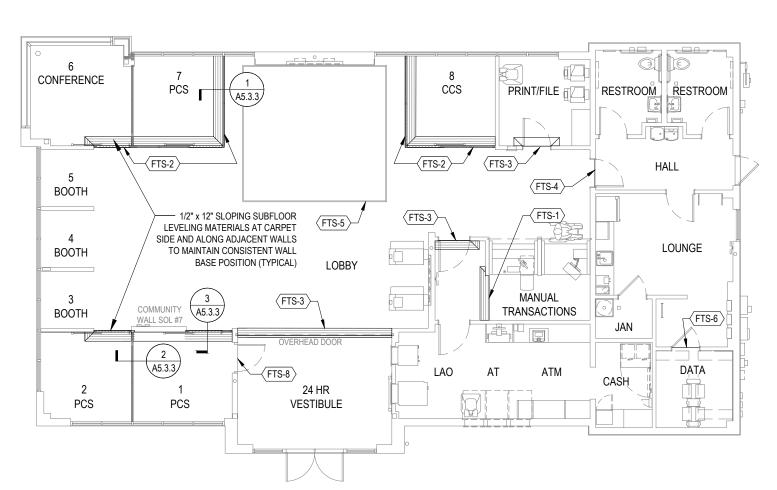


DEMOUNTABLE WALL FLOOR TRANSITIONS A3.3.1 3" = 1'-0"

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

NOTE: CONCIDM CONTACT INCODMA		CONTACTS	MANACED/COODDINATOD
NOTE: CONFIRM CONTACT INFORMAT			
VENDOR / MFR.	CONTACT	PHONE 709 244 4000	E-MAIL
ACME BRICK CO.	LOCAL DIOTRIBUTOR	708-344-1000	
BENJAMIN MOORE	LOCAL DISTRIBUTOR	000 400 4700 57/7 5044	
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.



FLOORING TRANSITION GUIDELINE SAMPLE FLOORPLAN AND PROGRAM AREAS FOR REFERENCE

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

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021



St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

HESE 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

2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

INTERIOR FINISH SCHEDULE FLOOR TRANSITION TYPES & FINISHES SCHEDULE VENDOR CONTACTS

SHEET NUMBER

A3.3.1

	NI. FIN. MAIE	RIALS SCHEDULE
		PAINT
T-103	CEILING PAINT	
	MFR.	BENJAMIN MOORE
	PRODUCT	AURA WATERBORNE INTERIOR PAINT
	COLOR	CLOUD COVER #OC-25
	FINISH	EGGSHELL FINISH 524
	FIRE CLASSIFICATION	CLASS A
T-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
T-500	GENERAL WALL / CEILIN	NG 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
T-501	ACCENT WALL PAINT- G	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						

WC-402		LL FINISHES M WALL (WALLCOVERING 1)
VVC-402	MFR.	D.L. COUCH
	PRODUCT	RECORE 'BACCARAT'
	COLOR	BASALT #NA-4C-JPM501
	WIDTH	
	FIRE CLASSIFICATION	53" ROLLED MATERIAL CLASS A
FRP-1	FIBERGLASS-REINFORC	1
1101-1	MFR.	CRANE COMPOSITES
	PRODUCT	GLASBORD PIF
	FINISH	84 IVORY
	LOCATIONS	JANITOR CLOSET / LADDER ROOM
	FIRE CLASSIFICATION	CLASS C
WT-1		W TREATMENTS
VV 1 - 1	VENDOR / INSTALLER	HADE (5% OPENNESS FACTOR) 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 SI	HADE (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 SI	HADE (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 SI	HADE (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 ADJACEN

WT-5	MANUAL ROLLING SHAL	JE (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 SHAL	DE (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 SHAL	DE (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 SHAT	DE (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 SHAD	E
	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
\A/T 7 A L T	DOUBLE BOLLED OLLAD	WINDOWS
WT-7 ALT	DOUBLE-ROLLER SHAD	T
	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 SPANDE	T
	VENDOR / INSTALLER	3M
	PRODUCT	SCOTCHCAL GRAPHIC FILM
		3630-51, SILVER
	COLOR	· ·
	COLOR FURNISHED BY	GENERAL CONTRACTOR
		GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK
	FURNISHED BY USES	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY
WT-20	FURNISHED BY USES FIRE CLASSIFICATION	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE)
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE)
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS,
WT-20	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC
	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR NOTES	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS,
	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR NOTES	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-20 WT-20 ALT	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR NOTES MOTORIZED ROLLING TO	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR ELLER SCRIM (OPAQUE)
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	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR NOTES MOTORIZED ROLLING TO VENDOR / INSTALLER	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR ELLER SCRIM (OPAQUE) ROLL-A-SHADE MOBR INTERIOR SUN CONTROL FABRICS
	FURNISHED BY USES FIRE CLASSIFICATION MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT SHADE COLOR ENCLOSURE COLOR EXPOSED HEM BAR NOTES MOTORIZED ROLLING TO VENDOR / INSTALLER PRODUCT	GENERAL CONTRACTOR RETROFIT STOREFRONT GLAZING TO BLOCKY VISIBILITY CLASS A ELLER SCRIM (OPAQUE) LUMENOMICS MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH ADJACENT FINISHES ANODIZED ALUMINUM WITH GREY RUBBER BOTTOM SEAL PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR ELLER SCRIM (OPAQUE) ROLL-A-SHADE MOBR INTERIOR SUN CONTROL FABRICS PHIFER SHEAR WEAVE 7100 WHITE P-02 ANODIZED ALUMINUM - PAINT TO MATCH
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NOTES

LEAD FREE

OPTION FOR FIELD APPLIED TREATMENT

		TRIM				
WB-402	VINYL WALL BASE- ST	TRAIGHT- 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 THROUG PIONEER MILLWORKS. SEE NOTE 1.				

	MILLWO	PRK 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							

WD-5		DESCRIPTION	PLASTIC LAMINATE	
4			MFR.	WILSONART
			COLOR	NATURAL RECON 7996-38
1			USES	MILLWORK, CHECK DESK
1		PL-503	MILLWORK LAMINATE	
1			DESCRIPTION	PLASTIC LAMINATE
1			MFR.	WILSONART
			COLOR	LECHE VISTA 4987K-07
v		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	
1			TEXTURE	RAKED
w		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
1		WD-601	VENEER PANELS	
WD-5		MFR.	BROOKSIDE VENEERS	
		PRODUCT	ALPIKORD PREFINISHED - CROSS GRAIN	
			SPECIES	SLAVONY OAK, PLANK

10.84K ALPIKORD

APPLIED TO FEATURE DIGITAL WALL

REFER TO FINISH PLAN AND ELEVATIONS

COLOR

NOTES

		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 ENTR					
	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					
	A	REA RUGS					
LRAR -4	FLOATING CARPET- NA	VY					
	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					
	EIDE 01 4001E104E1011						

FIRE CLASSIFICATION | CLASS 1

T-402 RESTROOM WALL & FLOOR TILE/ LOUNGE

PRODUCT

COLOR

FINISH

GROUT JOINT

GENERAL FLOOR TILE

NOTES

PRODUCT

COLOR

FINISH

GROUT

GROUT JOINT

SC CONCRETE FLOOR PAINT

VCT-1 VINYL COMPOSITION TILE

DESCRIPTION

COLOR

FIRE CLASSIFICATION | CLASS A

FIRE CLASSIFICATION CLASS 1

PRODUCT

COLOR

SIZE

T-501

SIZE

TILE

1/8" MISCELLANEOUS FLOORING

ACT-2	ACOUSTICAL CEILING (NON-CUSTOMER AREAS)
	MFR.	USG
	PRODUCT	MARS CLIMAPLUS HIGH-NRC (ITEM NO. 8710
	COLOR	WHITE
	SIZE	24"x24"x7/8"
	EDGE	9/16" FINELINE BEVEL (FLB)
	GRID	CENTRICITEE DXT 9/16" EXPOSED TEE SYSTEM
		E USG Centricitee™ DXT™
	GRID FINISH	FLAT WHITE
	FIRE CLASSIFICATION	CLASS A
ACT-4	ACOUSTICAL CEILING (
	MFR.	USG
	PRODUCT	MARS HIGH-NRC LOGIX CLIMAPLUS PERFORMANCE FIELD AND CHANNEL PANE
	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
		PROFILE EDGE DETAIL 19/16" 113/16" USG Donn' Brand Fineline' Bevel
	GRID FINISH	FLAT WHITE
	FIRE CLASSIFICATION	CLASS A
IOTES	•	
1	INTUMESCENT FLAME R BY UNIVERSAL FIRE SHI	ETARDANT: FIREKOTE 100 AS MANUFACTURE ELD, CLEAR FINISH

LU	OR TILE/ LOUNGE			
	STONE SOURCE			
	CREOS			
	DORIAN	RE	GIONAL WINDOW SHADE FA	ABRICS
	NATURAL FINISH	MIDWEST REGION	3% OPENNESS FACTOR	5% OPENNESS FACTOR
	12" x 24" x 3/8"	ILLINOIS		Х
	CUSTOM BUILDING PRODUCTS PRISM	KENTUCKY		Х
	ULTIMATE PERFORMANCE GROUT #165 "DELOREAN GRAY"	MICHIGAN		X
	1/8"	MISSOURI		X
	MATCHING TILE WALL BASE AVAILABLE FOR	OHIO		X
	RESTROOMS	WISCONSIN		X
STONE SOURCE		W. VIRGINIA		X
	STONE SOURCE	NORTHEAST REGION	3% OPENNESS FACTOR	5% OPENNESS FACTOR
	CREOS	CONNECTICUT		Х
	DORIAN	NEW JERSEY		Х
	NATURAL FINISH	NEW YORK		Х
	30" X 30" x 3/8"	SOUTH REGION	3% OPENNESS FACTOR	5% OPENNESS FACTOR
	CUSTOM BUILDING PRODUCTS PRISM ULTIMATE PERFORMANCE GROUT #165	COLORADO		Х
RESTI STON CREC DORIA NATU 30" X CUST ULTIN "DELC 1/8" ANEOUS INT SHER FLOO	"DELOREAN GRAY"	FLORIDA	Х	
	1/8"	GEORGIA		Х
.AI	NEOUS FLOORING	LOUISIANA	Х	
IN.	Т	TEXAS	Х	
	SHERWIN WILLIAMS	WEST REGION	3% OPENNESS FACTOR	5% OPENNESS FACTOR
	TREAD-PLEX 100% ACRYLIC WATER BASED	SOUTHERN ARIZONA	Х	
	FLOOR COATING DECK GRAY	NORTHERN ARIZONA		X
	SEMI-GLOSS, SLIP-RESISTANT	SOUTHERN CALIFORNIA	Х	
	CLASS A	NORTHERN CALIFORNIA		Х
ΓIL		NEVADA	Х	
IIL	T	OREGON		Х
	PLASTIC LAMINATE	UTAH	Х	
	ARMSTRONG FLOORING - EXCELON SDT	WASHINGTON		X
	ARMOR GRAY #51951			•
	DATA ROOM FLOOR (WHERE NOTED)			







6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



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 200200.XX..XX PROTOTYPE: X.X.LASTNAME DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

INTERIOR FINISH MATERIAL REGIONAL WINDOW SHADE **FABRICS**

SHEET NUMBER

A3.3.2

				FURNITUE	RE SCHEDUL	E								
								F	URNIS	SHED BY	Y	INS	TALLEI	D B
GROUP	OGL TAG	DESCRIPTION	VENDOR	VENDOR#	MANUFACTURER	MODEL	FINISH	OWNER	29	EQUIP. VENDOR	FURN. VENDOR	OWNER	FOLIIP VENDOR	המטוד. עבויטטיי
	2AF	30" 2-DRAWER LATERAL FILE	EMPIRE	2A1	STEELCASE	900 SERIES	MF-1				•		+	+
	2AP	15" PEDESTAL BBF	EMPIRE	2A1	STEELCASE	900 SERIES	MF-1				•		+	
FILES	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							
	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				•			
LOUNGE	BT4-B	LOUNGE TABLE, 48" DIA.	EMPIRE	FT-14 48	STEELCASE	853600	CLEAR MAPLE							
OUNGE	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					-				•		
		WIRE SHELVING - HANG TRACK			CLOSETMAID	282400, 282600,	WHITE							
	-	WIRE SHELVING - STANDARD			CLOSETMAID	283600 280000, 280100, 280800, 281200,	WHITE		•					
ANITOR'S LOSET / ENERAL	WS-1	WIRE SHELVING - 12" SHELF ("SUPERSLIDE")			CLOSETMAID	280400 471400, 471700,	WHITE		•				+	
STORAGE	-	WIDE CHELVING AND DARKET	-		OL OOFTMAID	471800, 471900 5285300	WHITE		\vdash				+	
	-	WIRE SHELVING - 12" BRACKET WIRE SHELVING - 16" SHELF ("CLOSE MESH")			CLOSETMAID	139500, 3731800	WHITE							
		WIRE SHELVING - 16" BRACKET			CLOSETMAID CLOSETMAID	5285400	WHITE							_
	OT-20A	KIMBERLY TABLE- 36"DIA X 21"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK		•			-	+	_
	OT-20A	KIMBERLY TABLE- 30 DIA X 21 TI	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK		\vdash				+	_
	OT-20D	KIMBERLY TABLE- 25"DIA X 15"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK		\vdash	_	-		+	
	OT-20D	KIMBERLY TABLE- 20"DIA X 18"H	EMPIRE		STEELCASE	CUSTOM	PLANKED OAK		\vdash	_	-		+	_
	OT-21	GINGKO WIRE CAFÉ TABLE- 30" DIA	EMPIRE		DAVIS	GINGKO	PLANKED OAK TOP, BLACK BASE		\vdash	+	-		+	
	CH-322	ALWAYS LOUNGE CHAIR	EMPIRE		NAUGHTONE	ALWAYS	GEIGER: IOTA- NAVY, BLACK BASE						+	
							DESIGNTEX: WOOLISH- OSPREY, BLACK			_			+	
	CH-323	STYLEX SHARE SOFA- CURVED	EMPIRE		STYLEX	SHARE	MATTE LEGS				•		\perp	
ROOM/ LOBBY	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		\square		-		+	
	TP	TELEPRESENCE SIDE TABLE- LIVING ROOM	GTI	34X72	SALAMANDER	CUSTOM	NATURAL OAK-NOT TEXTURED	-	\vdash	-			-	1
	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				•			
	СТ	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				•			
MISC.	BB-1	BOOTH BENCH (QTY- 2 BENCHES)	СВВЕ		СВВЕ	CUSTOM	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO- KEYSTONE, BLACK FEET BACK OF BOOTH UPHOLSTERY:				•			
	BB-2	DROP IN BOOTH	EMPIRE		NATIONAL	FRINGE	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				•			
	MST-3	MANUAL TRANSACTION MODULE - MST	EMPIRE	TC 1M	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE		\vdash		•		+	_
MANUAL	AST-3	MANUAL TRANSACTION MODULE - LEFT AST	EMPIRE	TC 1AL	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE		\vdash	+	-		+	_
NSACTIONS	AST-3	MANUAL TRANSACTION MODULE - RIGHT AST	EMPIRE	TC 1A	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE			-+	_		+	\dashv
ANSACTIONS			=	· · · · · · · · · · · · · · · · · · ·				1	\longrightarrow	\longrightarrow			+	$oldsymbol{oldsymbol{\sqcup}}$

		D-401D	CONF. TABLE WITH X BASE (72X36)	EMPIRE	72X36	STEELCASE/GORDON		QUARTER CUT OAK COMPOSITE, BLACK 'X' BASE	•	•
CONFERENCE	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/CCREDDW	C STEELCASE		QUARTER CUT OAK COMPOSITE, SILVER BIRCH CORIAN	•	
		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	•	•
\dashv		D-401 C/ DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (60x36)	EMPIRE	60X36	STEELCASE		QUARTER CUT OAK COMPOSITE, BLACK HARDWARE	•	•
	PRIVATE CONSULTATION	HAD-2	OLOGY HEIGHT ADJUSTABLE DESK	EMPIRE		STEELCASE	OLOGY	QUARTER CUT OAK COMPOSITE TOP, BLACK ADJUSTABLE BASE	•	•
-	SPACE	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	DS	BANKER DESK AND LAO CHAIR	EMPIRE	FS-11T	STEELCASE	THINK	BLACK, NON-NESTING, ADJUSTABLE ARMS	•	•
AND GUEST CHAIRS	CH-311	BINDU CONFERENCE CHAIR- LOW BACK ON CASTERS	EMPIRE		COALESSE	BINDU	DESIGNTEX: BARK CLOTH-DARK CHARCOAL, BLACK BASE ON CASTERS	•	•	
		CS-3	SDB CARREL / VIEWING ROOM	EMPIRE	TRADCARREL-C	STEELCASE	CARREL	QUARTER CUT OAK COMPOSITE		•
_	SDB	CH-320	SDB ARMLESS CHAIR	EMPIRE		STEELCASE	FORMULA	DESIGNTEX: BARKCLOTH-DARK CHARCOAL, BLACK SLED BASE	•	•
- 1			<u> </u>			1			 	



COA #: A-2014026908 ARCHITECT OF RECORD



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 2020.12.21 PROTOTYPE: J.SANCHEZ DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

FURNITURE SCHEDULE

SHEET NUMBER

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

CHASE, N.A

MORGAN CHASE, N.A

WY 291 & NE LANGSFORD RD

890 NE LANGSFORD RD

890 NE LANGSFORD RD
LEE'S SUMMIT, MO 64063

CORESTATES

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



AKCHITECT: K. BKUCE LASUKS
LICENSE NUMBER: 007504

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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:

DRAWN BY:

CHECKED BY:

VERSION:

SHEET TITLE

BANK EQUIPMENT SCHEDULE

C.THEBEAU

B.LaSURS

SE_1.00

SHEET NUMBER

	OFFICE EQUIPMENT SCHEDULE												
						FURNIS	SHED BY	1		INSTAL	LED BY		
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	OWNER	GC	EQUIP VENDOR	FURN VENDOR	OWNER	GC	EQUIP VENDOR	FURN VENDOR	NOTES
)E-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	200112011	1711.020	***************************************	_				-				
OE-10	NOT USED												
OE-10		HUMANSCALE	QSBH30FNN	WHITE									
OE-12	DESK MONITOR ARM	HUMANSCALE	MFLEX	GRAY				_				•	POLE-MOUNT THROUGH GROMMET
OE-12	NOT USED	HOWANGCALE	WIFLEX	GRAT								•	POLE-INCOM THROUGH GROWINE
OE-13	23" MONITOR LESS STAND	TBD	TBD	WHITE	_				_				AST MONITOR
OE-14		VARIES	VARIES		_				_				AST MONTOR
	PRIVACY SCREEN FILTER SOUND BAR			\\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_				_				
05.45		TBD	TBD	WHITE					•				
OE-15	VDI TERMINAL	HP	T630	BLACK									
	VDI TERMINAL ADAPTER		1/500 MO40 H 1/1 B										
OE-16	WIRELESS KEYBOARD AND MOUSE	LOGITECH	K520, M310, Unifying Receiver	BLACK	•								
OE-17 OE-18	NOT USED CPU//DI UNDER SURFACE MOUNT	HUMANSCALE	CPU200	WHITE BR								•	UNDER SURFACE MOUNT WITH 360 DEGREE
		_		ALUM.				1					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	•								
	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	•					•			

			MISCELLA	NEOUS	S EQU	IPME	NT SC	HEDU	LE				
						FURNIS	HED BY			INSTAL	LED BY		
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	OWNER	GC	EQUIP VENDOR	FURN VENDOR	OWNER	GC	EQUIP VENDOR	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									
IVIE-03	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 WHTE 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						•			

PROG	GRAMMATIC ELEMENT			
ABBREV.	DESCRIPTION	TAG	QTY.	DESCRIPTION
			1	23" MONITOR AND STAND
MST	MERCHANT SERVICES	OE-06	1	PRIVACY SCREEN FILTER
	TELLER,		1	SOUND BAR
PST	PERSONAL SERVICES TELLER, OR	OE-07	1	TELLER CPU
AT	ACCESS TELLER	OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
		OE-04	1	ADA MONITOR & KEYBOARD STAND
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
AST	ACCESSIBLE SERVICES TELLER	OE-10	1	WIRE MANAGEMENT KIT
	TELLEN		1	23" MONITOR - LESS STAND
		OE-14	1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-05	1	KEYBOARD TRAY
	LEAD ASSOCIATE OPERATIONS		1	23" MONITOR AND STAND
		OE-06	1	PRIVACY SCREEN FILTER
LAO			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
			1	23" MONITOR AND STAND
		OE-06	1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		05.45	1	VDI TERMINAL
	воотн	OE-15	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
			1	23" MONITOR
		OE-06	1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM
ccs	CASUAL CONSULTATION SPACE	05.45	1	VDI TERMINAL
	OI AOL	OE-15	1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE

		· · · · · · · · · · · · · · · · · · ·	1	23" MONITOR AND STAND			
		OE-06	1	PRIVACY SCREEN FILTER			
		<u> </u>	1	SOUND BAR			
		OE-12	1	MONITOR ARM			
PCS	PRIVATE CONSULTATION	<u> </u>	1	VDI TERMINAL			
. 50	SPACE	OE-15	1	VDI TERMINAL ADAPTER			
		OE-16	1	WIRELESS KEYBOARD AND MOUSE			
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD			
		OE-28	1	PHONE			
			1	23" MONITOR			
		OE-06	1	PRIVACY SCREEN FILTER			
			1	SOUND BAR			
	CONFERENCE ROOM	OE-12	1	MONITOR ARM			
	MARKET CONFERENCE SPACE		1	VDI TERMINAL 3			
		OE-15	1	VDI TERMINAL ADAPTER			
		OE-16	1	WIRELESS KEYBOARD AND MOUSE			
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD			
		OE-28	1	PHONE			
			1	23" MONITOR AND STAND			
		OE-06	1	PRIVACY SCREEN FILTER			
			1	SOUND BAR			
IVVC	INDIVIDUAL MODIC CDACE	OF 45	1	VDI TERMINAL			
IWS	INDIVIDUAL WORK SPACE	OE-15	1	VDI TERMINAL ADAPTER			
		OE-16	1	WIRELESS KEYBOARD AND MOUSE			
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD			
		OE-28	1	PHONE			
IOTES							
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						

IF TABLE IS CENTERED IN ROOM AND FLOOR POWER/ DATA CONNECTIONS ARE PROVIDED. ADD CPU/VDI UNDER-SURFACE MOUNT [OE-18]

ONE OFFICE TO RECEIVE 2-ARM MONITOR STAND, LOCATION TO BE DETERMINED BY BRANCH PLANNING MANAGER DURING TURNOVER.

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

08/13/2021

MORGAN CHASE, N.A WY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 890 NE LANGSFORD RD LEE'S SUMMIT, MO 64063 LEE'S SUMMIT, MO 64063

CORE STATES
GROUP

s, MO 63109 8.4320 ore-states.com COA #: A-2014026908

ARCHITECT OF RECORD



ARCHITECT: K. 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

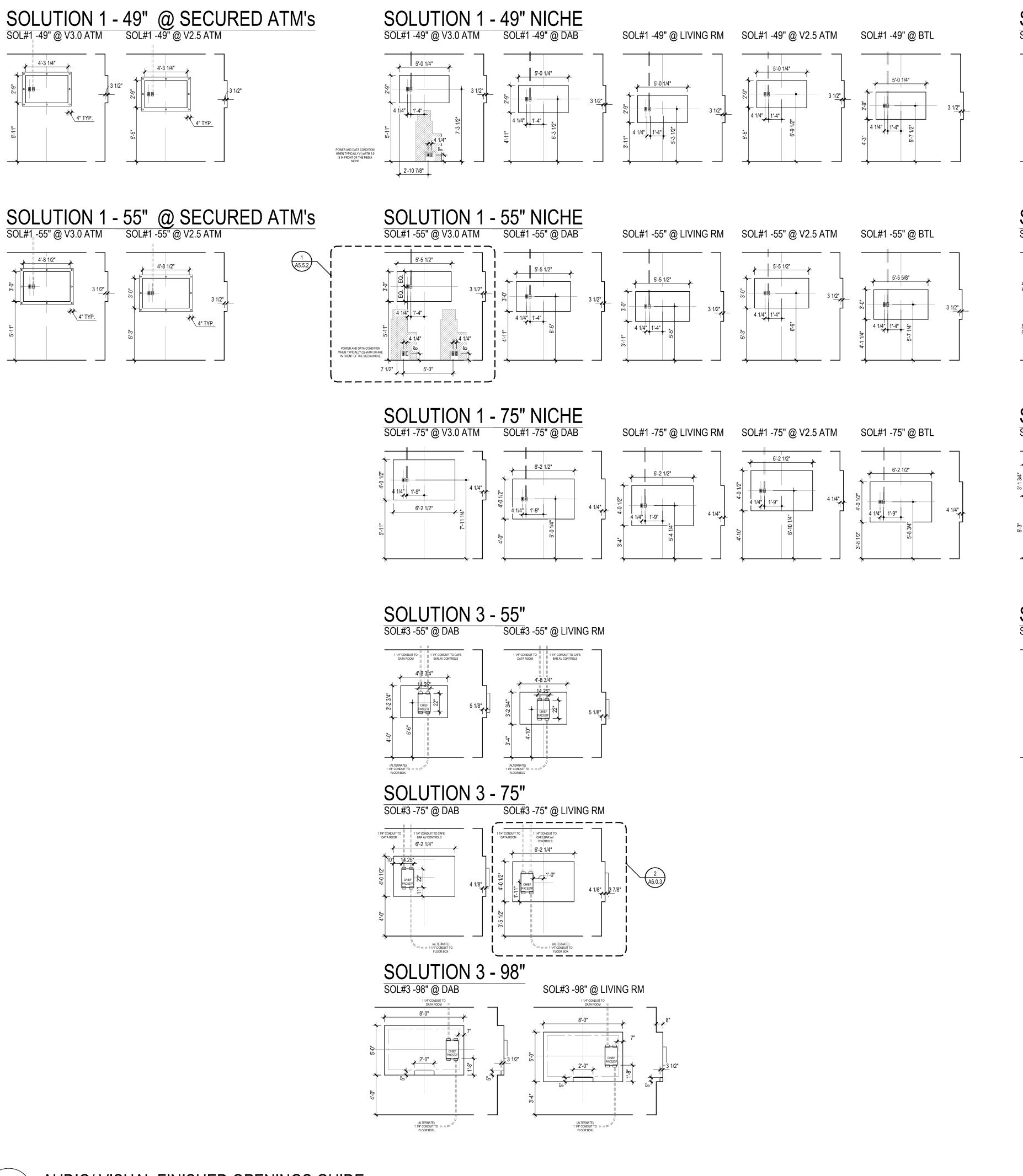
CHECKED BY: B.LaSURS

VERSION: SE_1.00

SHEET TITLE

OFFICE EQUIPMENT BY
PROGRAMMATIC ELEMENT
OFFICE EQUIPMENT SCHEDULE
MISCELLANEOUS EQUIPMENT
SCHEDULE

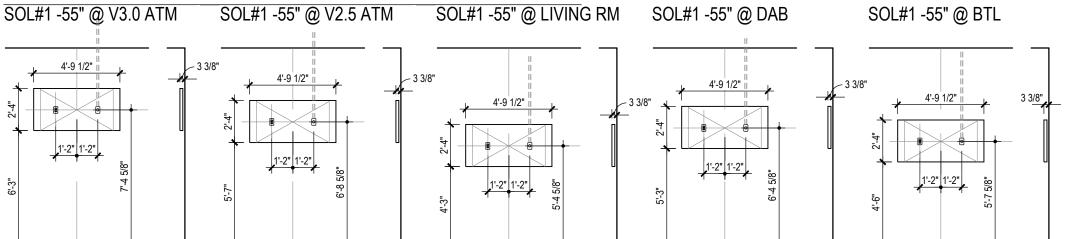
SHEET NUMBER



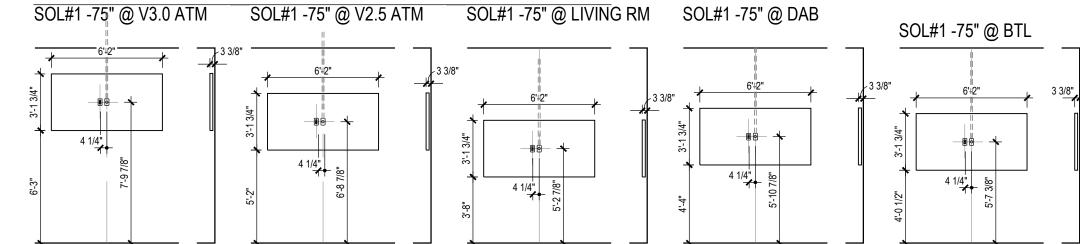
SOLUTION 1 - 49" SURFACE MOUNTED

SOL#1 -49" @ V2.5 ATM SOL#1 -49" @ LIVING RM SOL#1 -49" @ DAB SOL#1 -49" @ BTL 1'-0 1/4" | 1'-2" | 1'-2" | 1'-0 1/4" 1'-2" 1'-2"

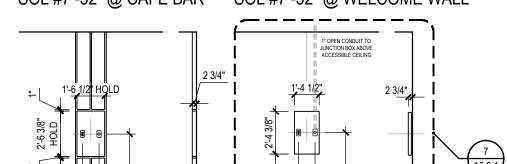
- 55" SURFACE MOUNTED



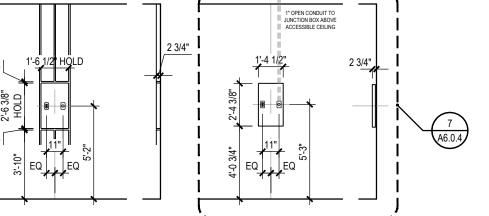
SOLUTION 1 - 75" SURFACE MOUNTED



SOLUTION 7 - 32"



SOL #7 -32" @ CAFE BAR SOL #7 -32" @ WELCOME WALL

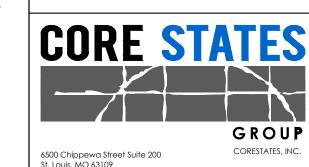


AUDIO/ VISUAL NOTES

- 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.
- 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 MEDIA WALL DETAILS.
- IF THERE IS A CONFLICT WITH DIMENSIONS SHOWN ON CONSTRUCTION FLOOR PLAN FOR NICHE 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.

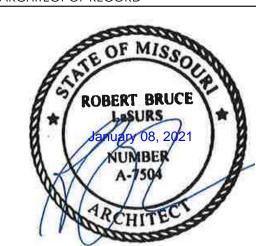
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

SE, I



6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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

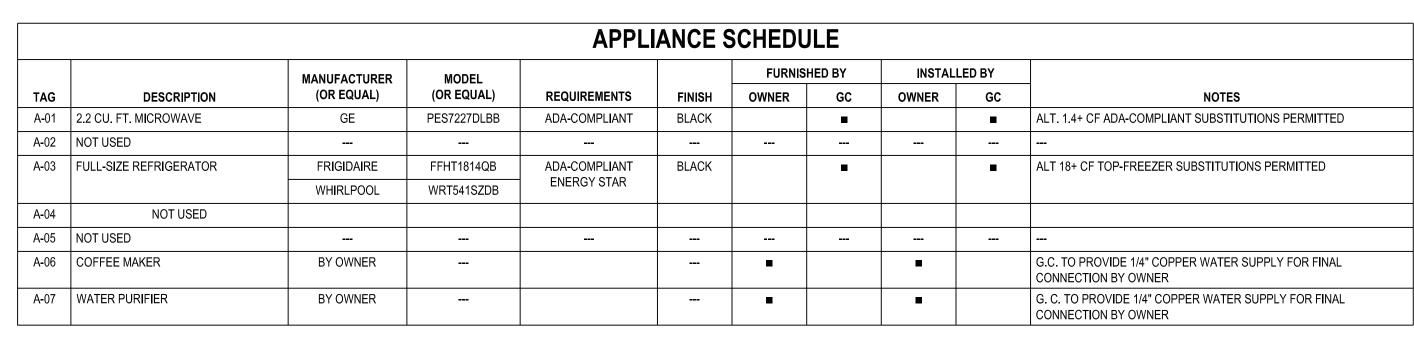
> DESCRIPTION 2020.12.21 PERMIT SET

PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21

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

AUDIO / VIDEO FINISHED **OPENINGS**

SHEET NUMBER



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: LAVMOUNT, LONG SHANK, 4" SPOUT	BOBRICK	B-823	POL. S.S.	1, 2, 6	
TA-06 (OPT.)	LIQUID SOAP DISPENSER: LAVMOUNT, 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.				

ELECTRICAL DEVICE FINISHES						
LOC	ATION	LUTRON	LEVITON, LEGRAND			
SURFACE	FINISH					

WHITE

WHITE

RECESSED BLACK RECESSED BLACK

WHITE

WHITE

6. PROVIDE IN ALL RESTROOMS, MEN / WOMEN / UNISEX.

CEILINGS AND SOFFIT FACES

TYPICAL WALL

COMMUNITY WALL

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI 08/13/2021

GROUP

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320 www.core-states.com COA #: A-2014026908

ARCHITECT OF RECORD

CORESTATES, INC.



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

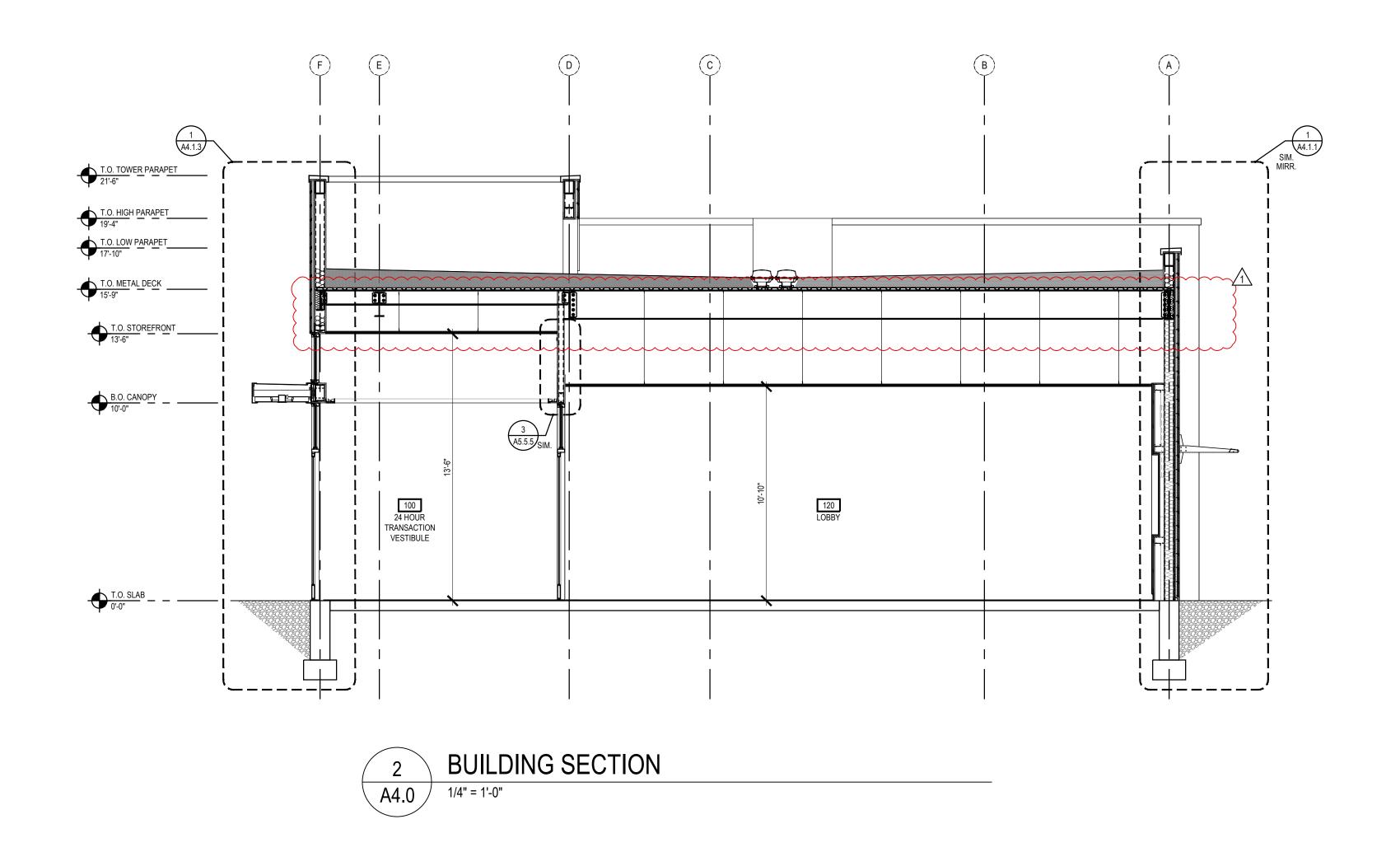
THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

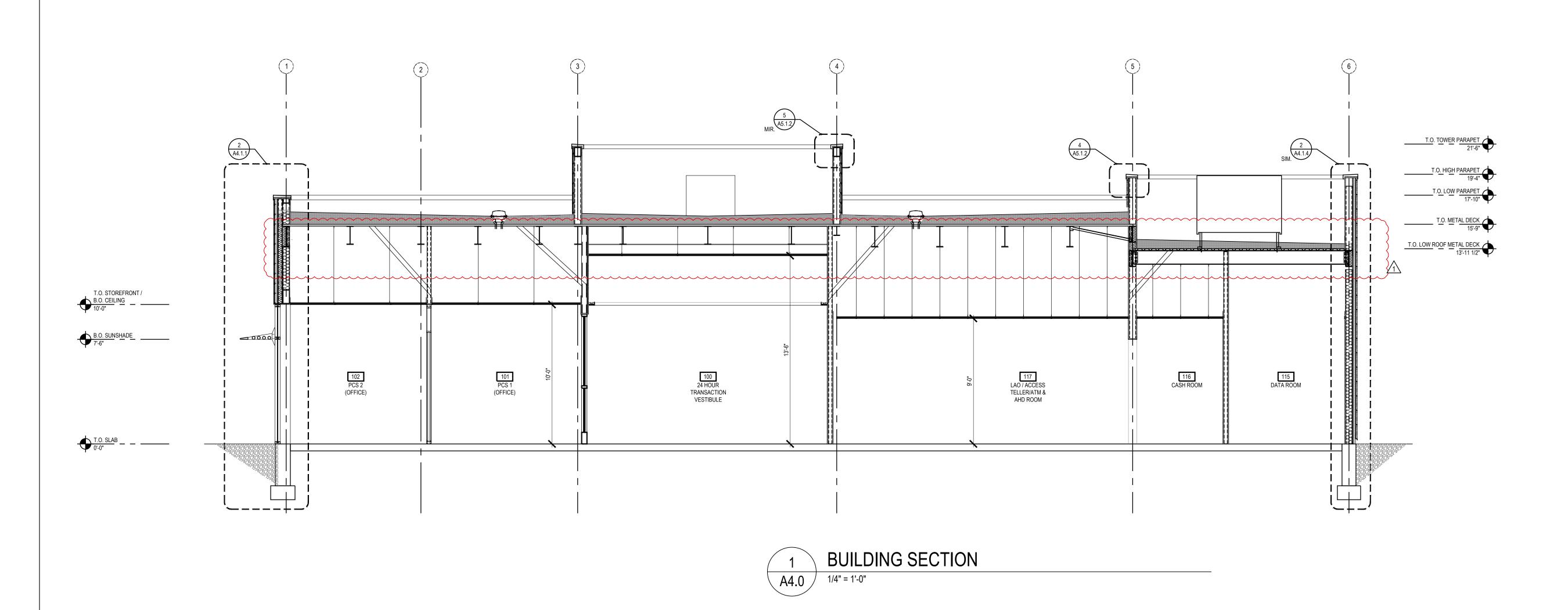
ISSUE DATE DESCRIPTION - 2020.12.21 PERMIT SET

PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21 PROTOTYPE: DRAWN BY: C.THEBEAU CHECKED BY: B.LaSURS VERSION: SE_1.00 SHEET TITLE

APPLIANCE SCHEDULE RESTROOM ACCESSORIES ELECTRICAL DEVICES FINISHES

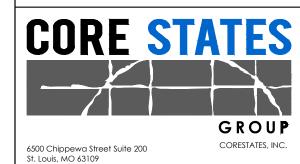
SHEET NUMBER











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COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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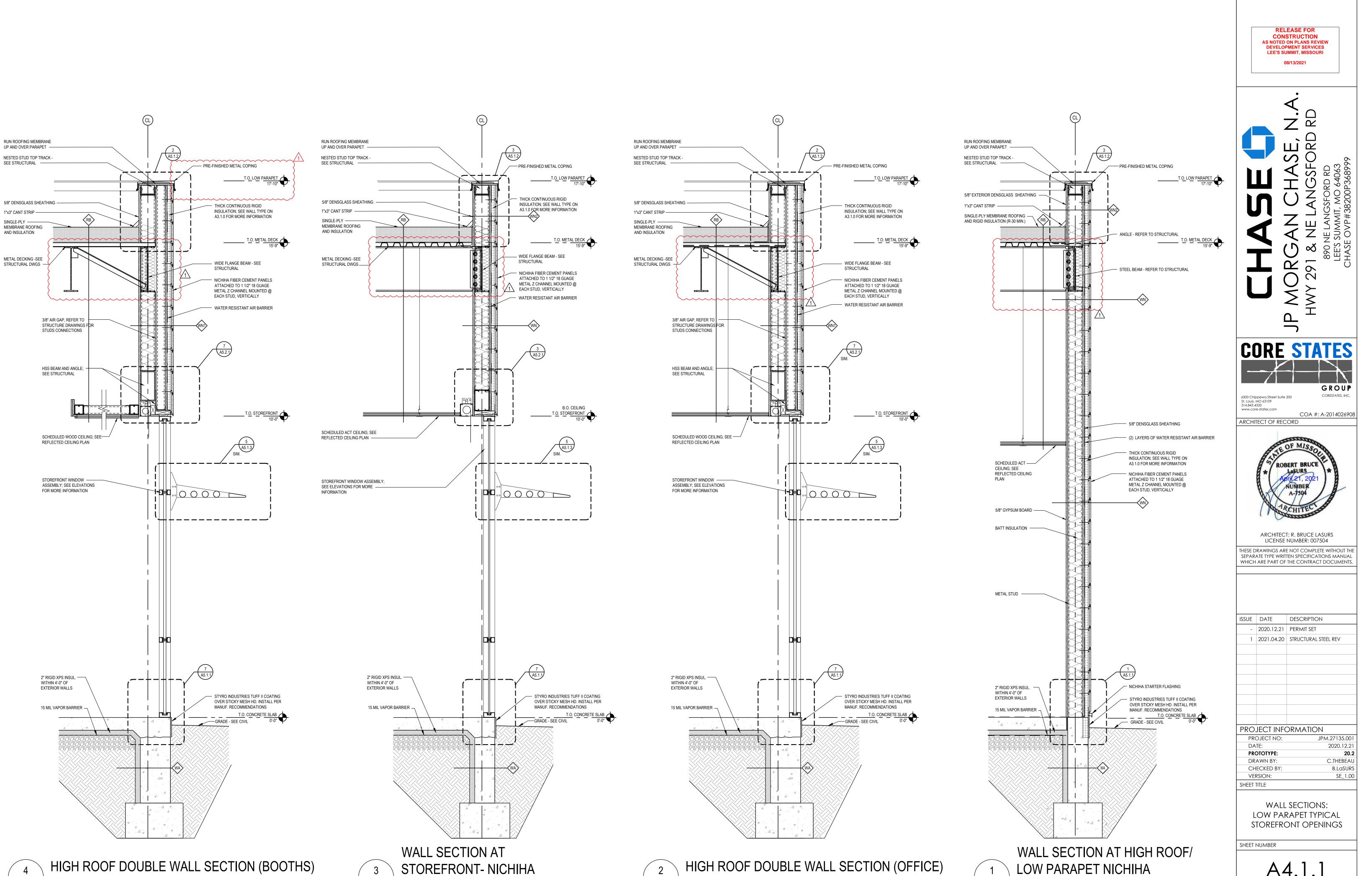
ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

PRO.	JECT INFO	ORMATION	
PRO	DJECT NO:	JPN	л.27135.00
DA	TE:		2020.12.2
PRC	OTOTYPE:		20.
DR	AWN BY:		C.THEBEA
CH	ECKED BY:		B.LaSUR
VEF	RSION:		SE_1.0
SHEET 1	ſITLE		

BUILDING SECTIONS

SHEET NUMBER

A4.0.0



UP AND OVER PARAPET

SEE STRUCTURAL —

MEMBRANE ROOFING

AND INSULATION

METAL DECKING -SEE

A4.1.1







ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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DESCRIPTION 1 2021.04.20 STRUCTURAL STEEL REV

PROJECT INFORMATION JPM.27135.001 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY:

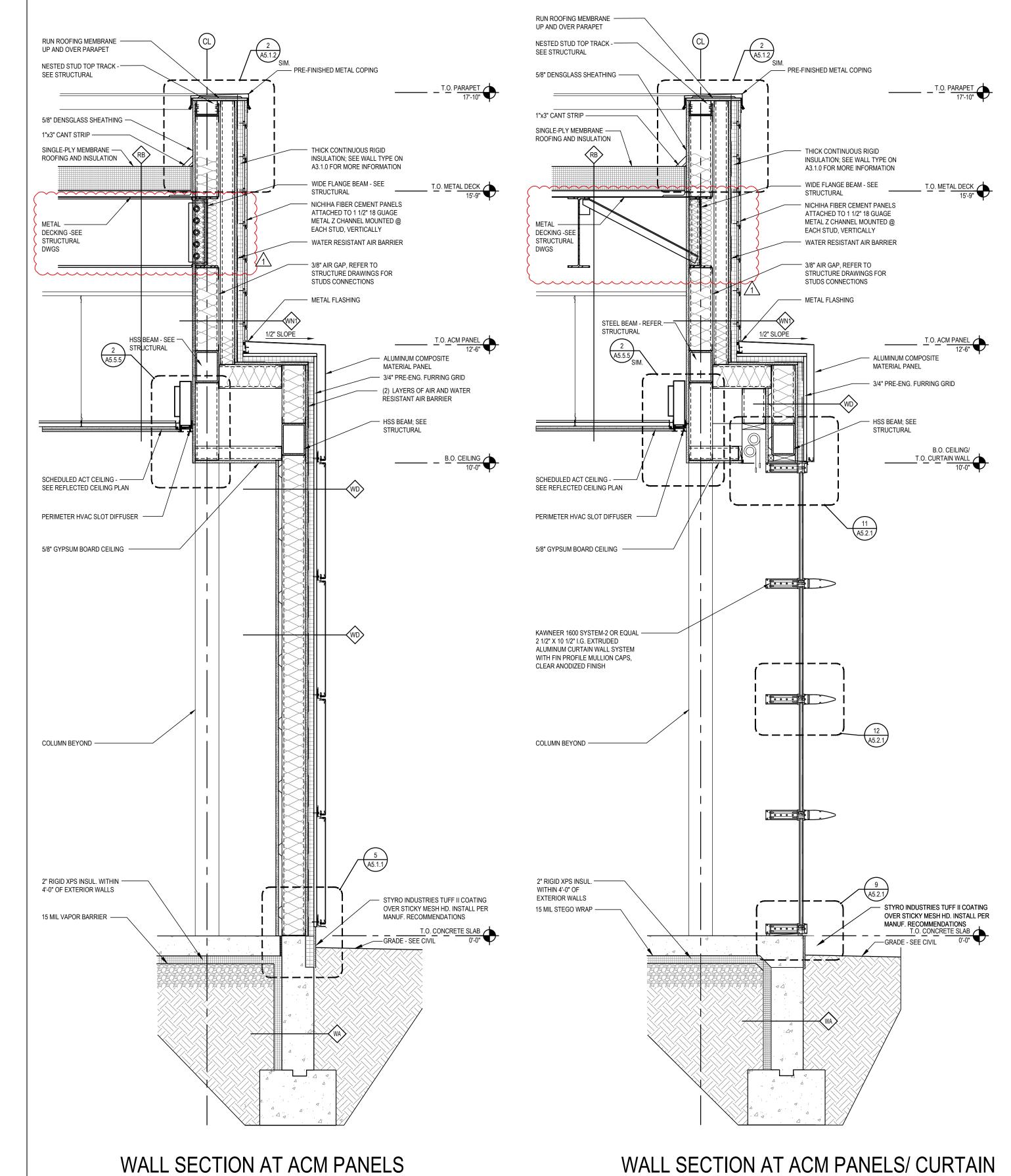
VERSION: SHEET TITLE WALL SECTIONS: CURTAIN WALL, ACM

PANEL AND HIGH PARAPET

SHEET NUMBER

NOT USED

A4.1.2

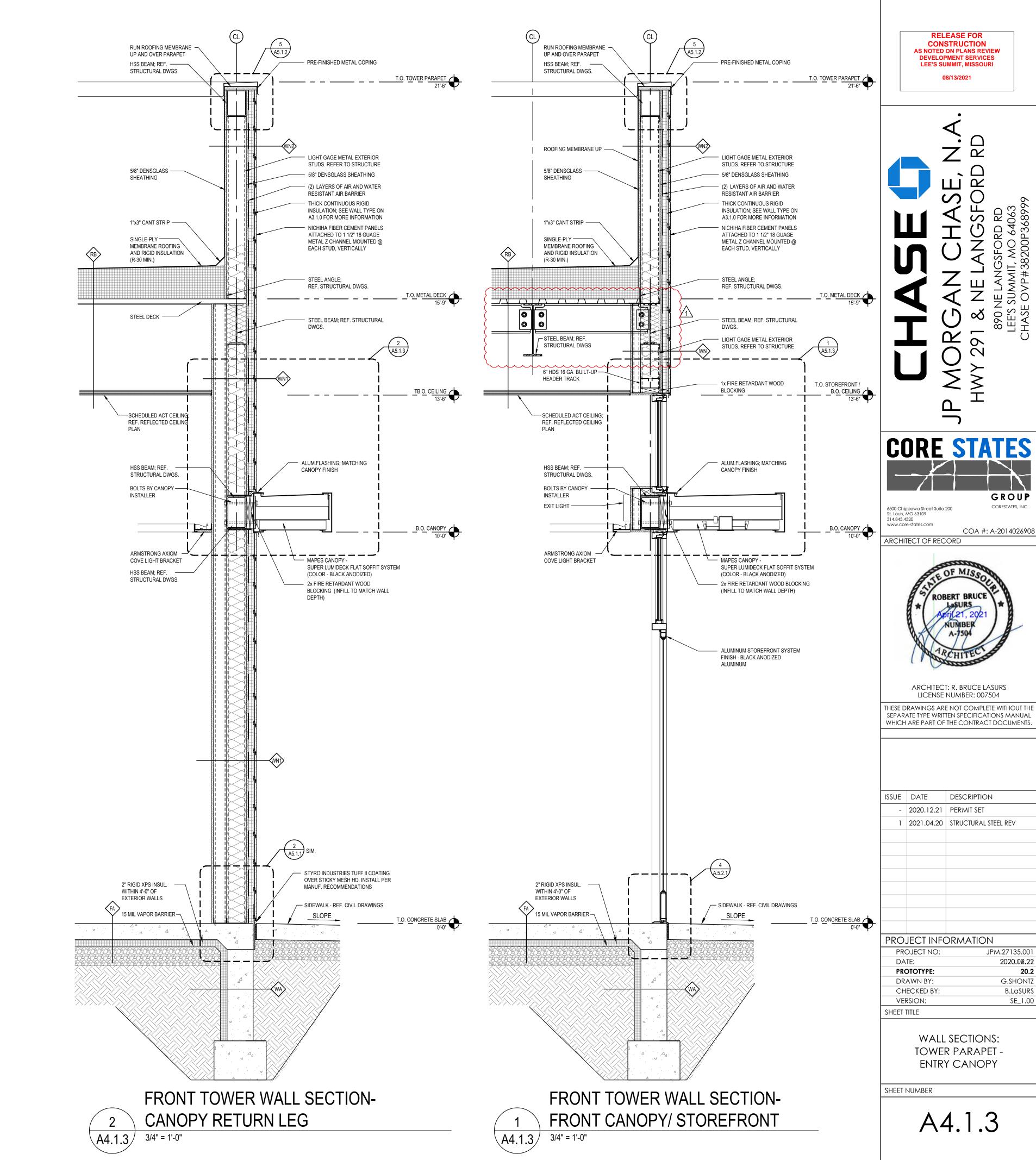


@ DOUBLE PARAPET WALL

A4.1.2 3/4" = 1'-0"

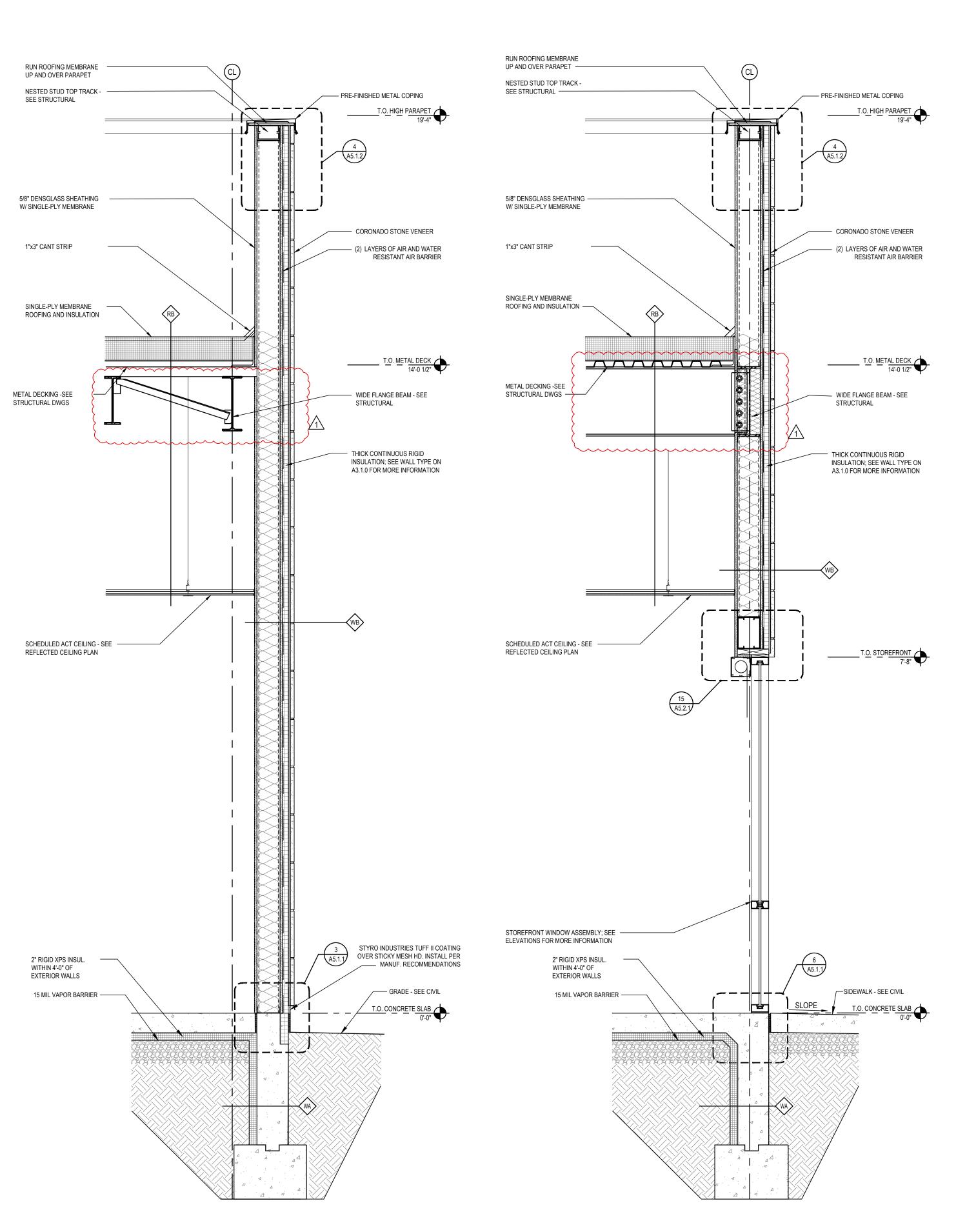
WALL SECTION AT ACM PANELS/ CURTAIN WALL @ DOUBLE PARAPET WALL A4.1.2 3/4" = 1'-0"

NOT USED



GROUP

JPM.27135.001 2020.08.22 G.SHONTZ B.LaSURS



WALL SECTION AT SIMULATED STONE



GROUP

6500 Chippewa Street Suite 200
St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD

ROBERT BRUCE

SURS

NUMBER

A-1504

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

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

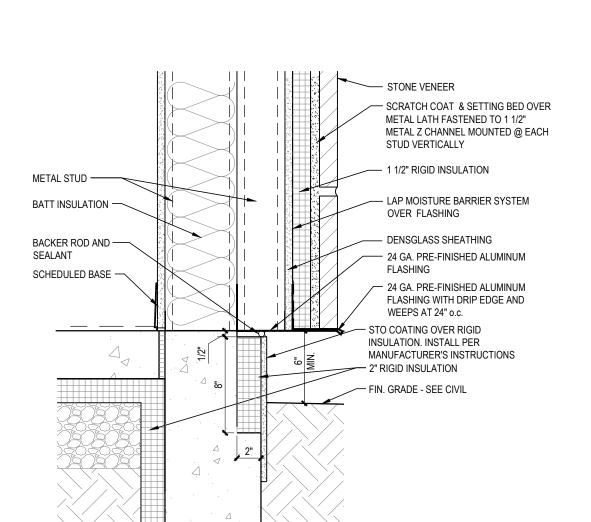
SHEET TITLE

WALL SECTIONS: SIMULATED STONE

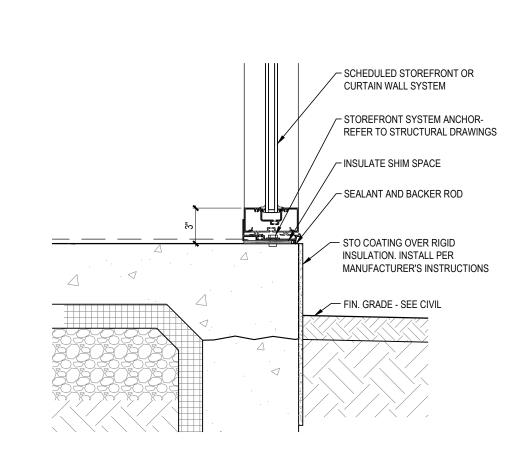
SHEET NUMBER

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

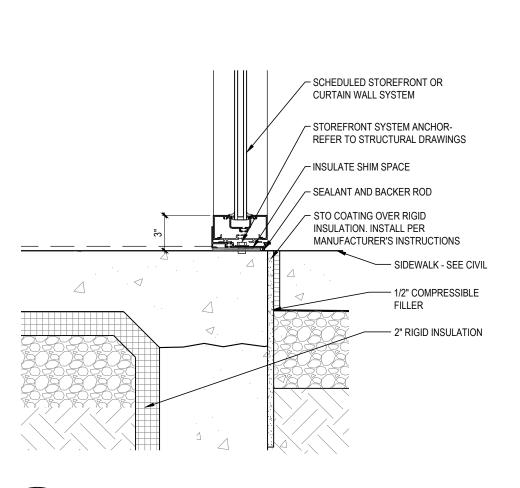
A4.1.4



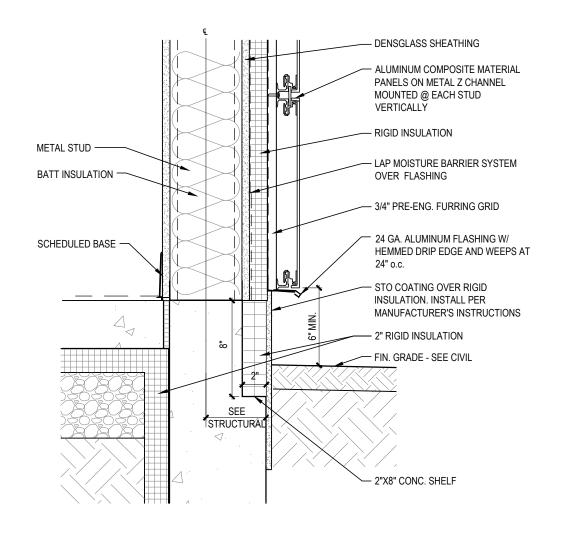




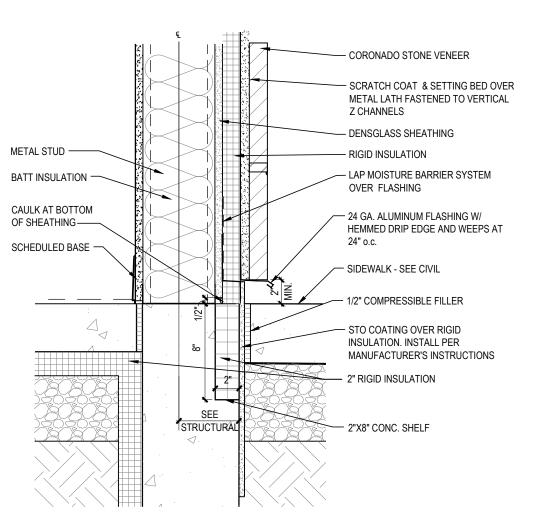




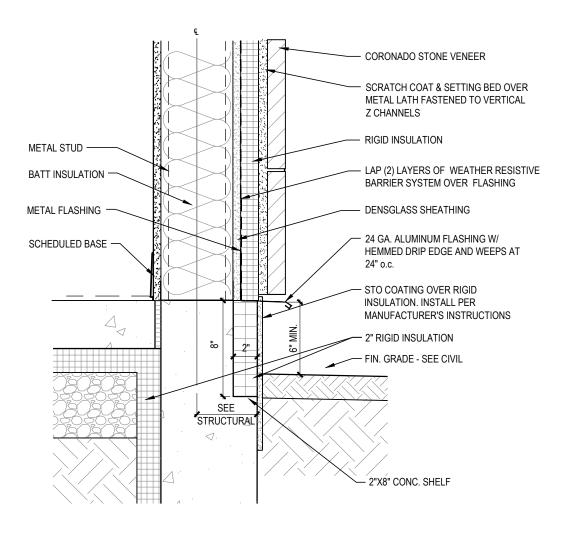




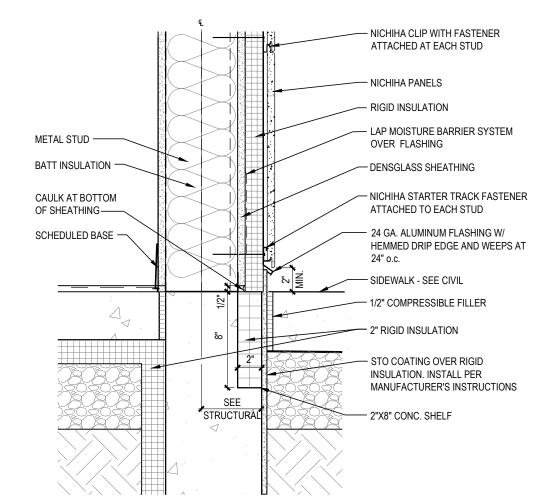




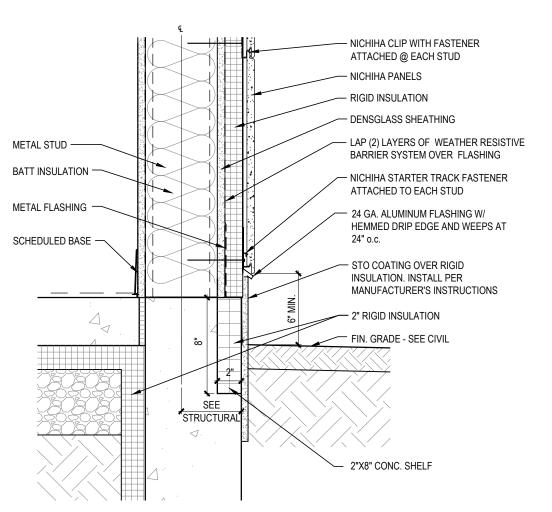








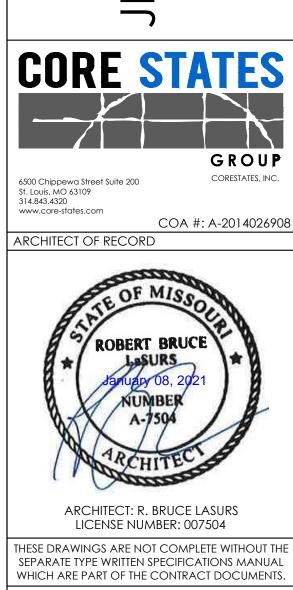




1 NICHIHA PANELS AT GRADE
A5.1.1 11/2" = 1'-0"

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

JP MORGAN CHASE, N.A HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 1 FEY STIMME AND ADARS



-	2020.12.21	PERMIT SET				
PRO.	JECT INFO	DRMATION				
PRC	DJECT NO:	JPM.27135.001				
DA	TE:	2020.12.21				
PRC	OTOTYPE:	20.2				
DR/	AWN BY:	C.THEBEAU				
CH	ECKED BY:	B.LaSURS				
VER	rsion:	SE_1.00				
SHEET TITLE						
DETAILS:						

DESCRIPTION

ISSUE DATE

SHEET NUMBER

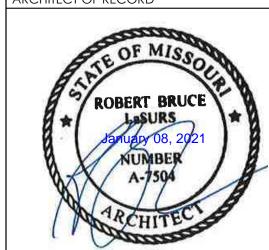
BUILDING ENVELOPE

A5.1.1





COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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UE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

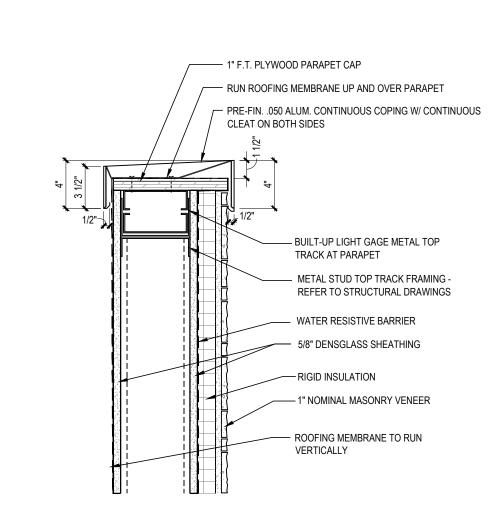
PROJECT INFORMATION							
PRC	DJECT NO:	JPM.27135.001					
DA	TE:	2020.12.21					
PRC	20.2						
DR	AWN BY:	C.THEBEAU					
СН	ECKED BY:	B.LaSURS					
VER	RSION:	SE_1.00					

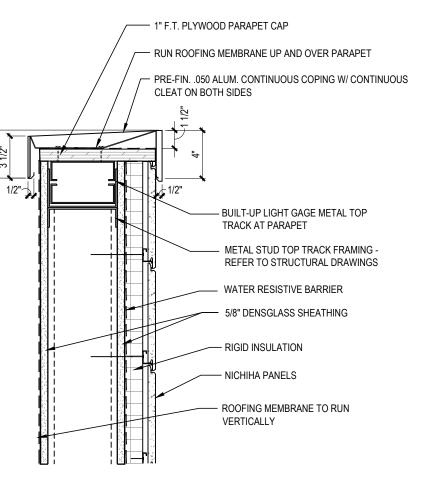
DETAILS: BUILDING ENVELOPE

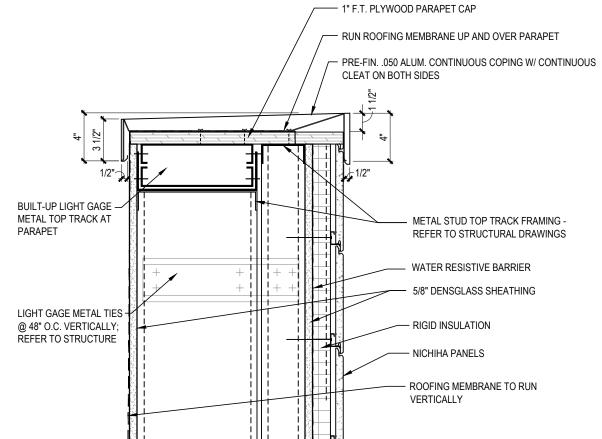
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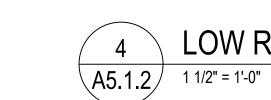
SHEET TITLE

A5.1.2









1" F.T. PLYWOOD PARAPET CAP

RUN ROOFING MEMBRANE UP AND OVER PARAPET

DRAWINGS

PRE-FIN. .050 ALUM. CONTINUOUS COPING W/ CONTINUOUS CLEAT ON BOTH SIDES

- HSS BEAM; REFER TO STRUCTURAL

METAL STUD TOP TRACK FRAMING -REFER TO STRUCTURAL DRAWINGS

WATER RESISTIVE BARRIER

— 5/8" DENSGLASS SHEATHING

- ROOFING MEMBRANE TO RUN

- RIGID INSULATION

- NICHIHA PANELS

VERTICALLY

TOWER ROOF PARAPET

A5.1.2 1 1/2" = 1'-0"

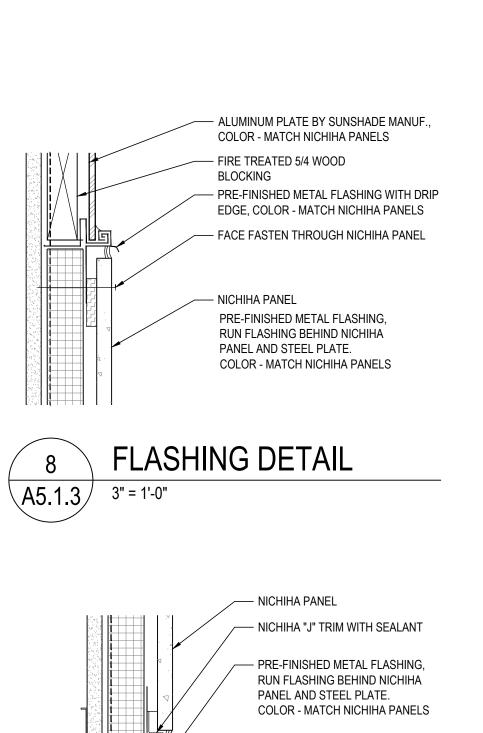


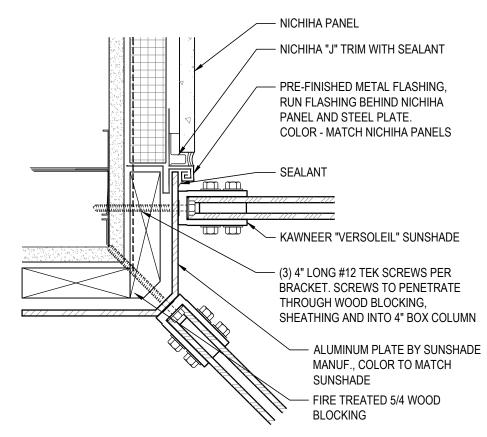


DOUBLE WALL ROOF PARAPET

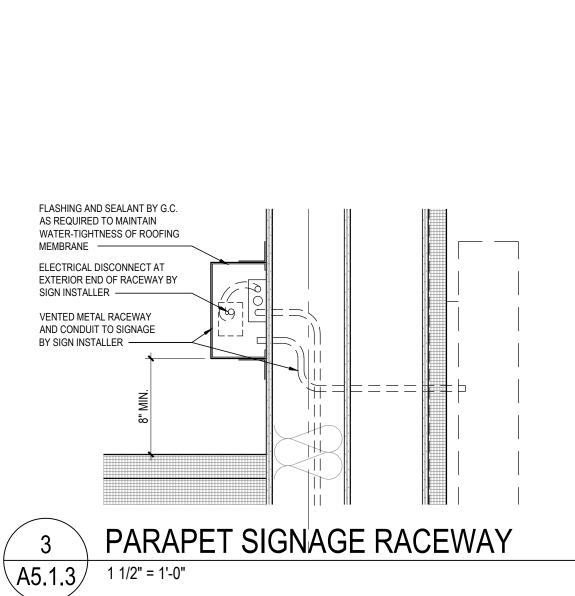
A5.1.2 11/2" = 1'-0"

NOT USED

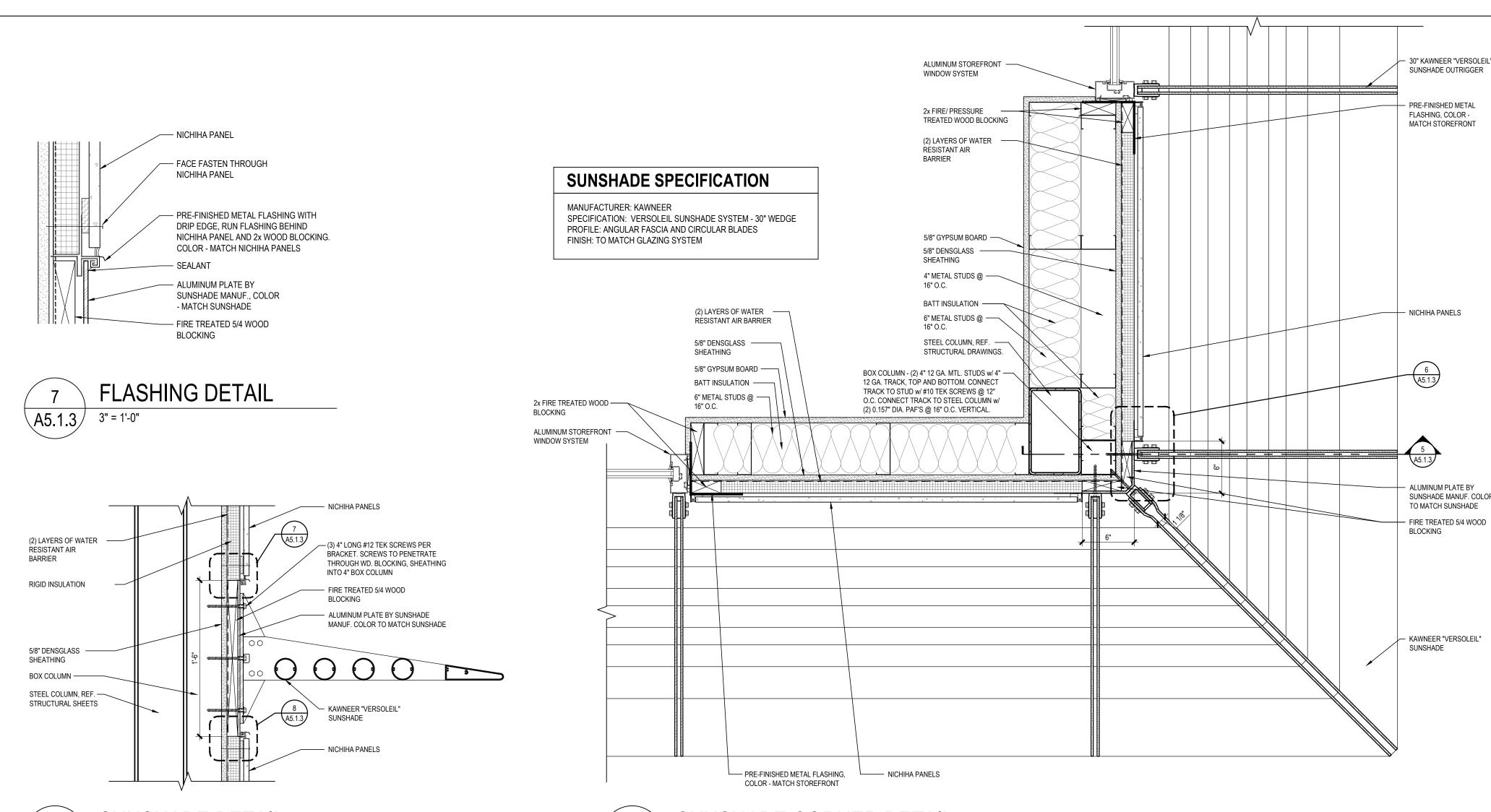


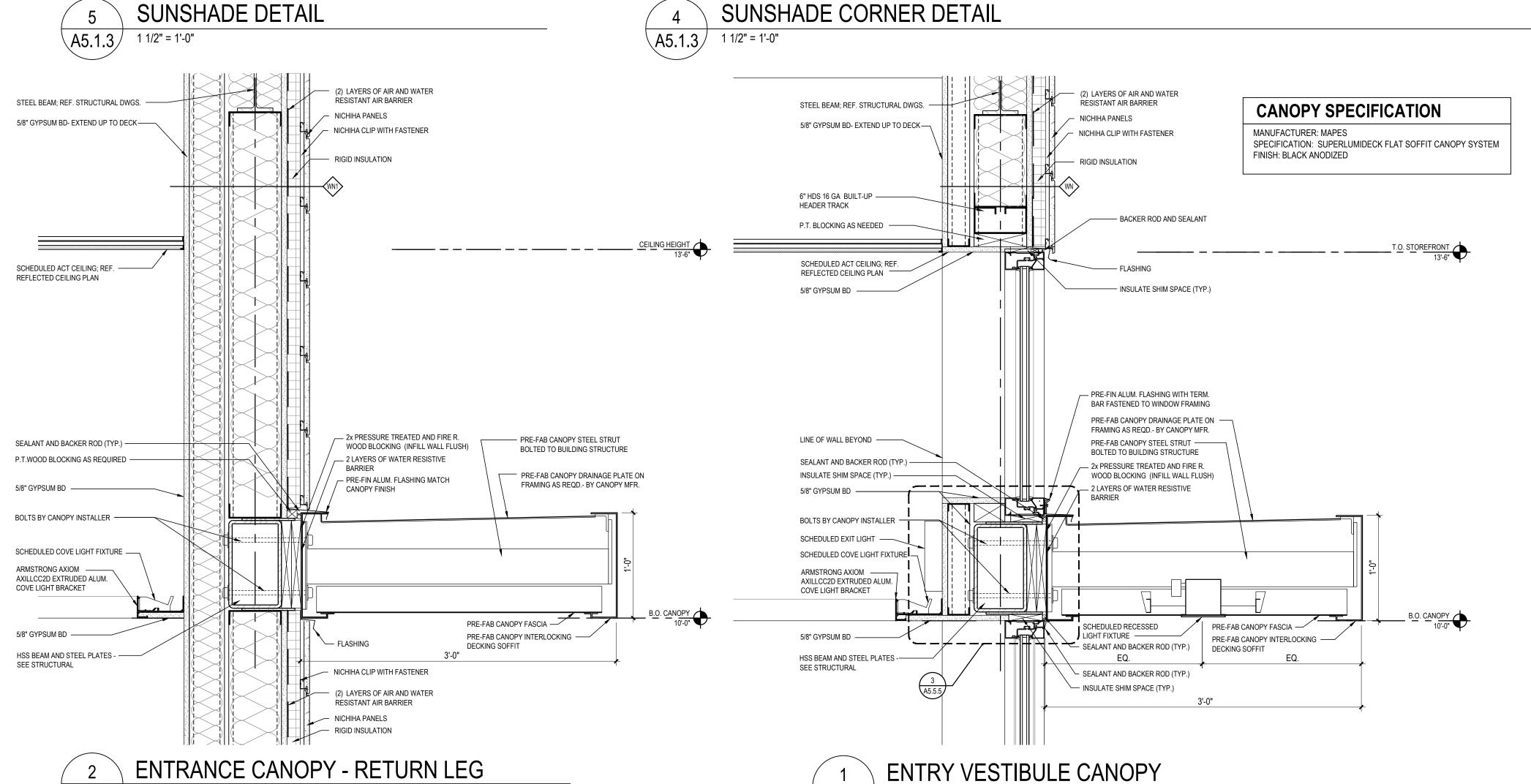






A5.1.3 1 1/2" = 1'-0"





A5.1.3 1 1/2'' = 1'-0''



30" KAWNEER "VERSOLEIL"

SUNSHADE OUTRIGGER

PRE-FINISHED METAL

FLASHING, COLOR -

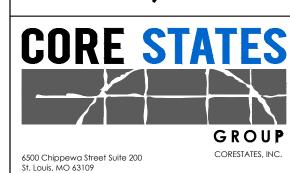
MATCH STOREFRONT

- ALUMINUM PLATE BY

SUNSHADE

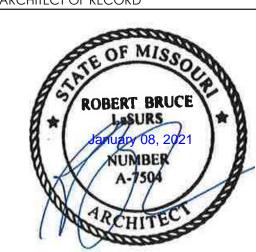
SUNSHADE MANUF. COLOR TO MATCH SUNSHADE





6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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ISSUE DATE

DESCRIPTION

2020.12.21 PERMIT SET

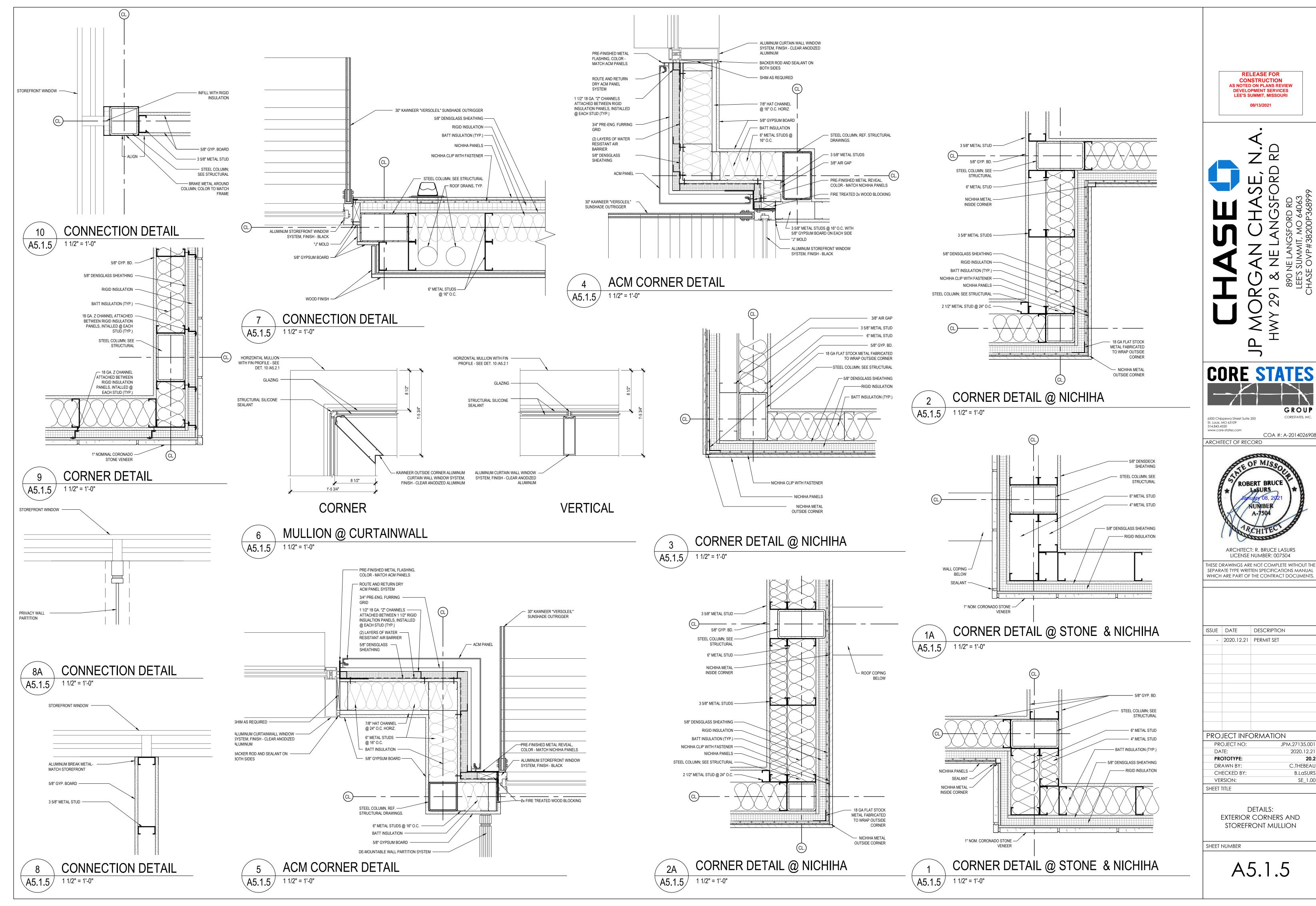
PROJECT INFORMATION PROJECT NO:

JPM.27135.001 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: CHECKED BY: B.LaSURS VERSION: SE_1.00 SHEET TITLE

DETAILS: ENTRANCE CANOPIES AND SUNSHADE

SHEET NUMBER

A5.1.3



DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

GROUP

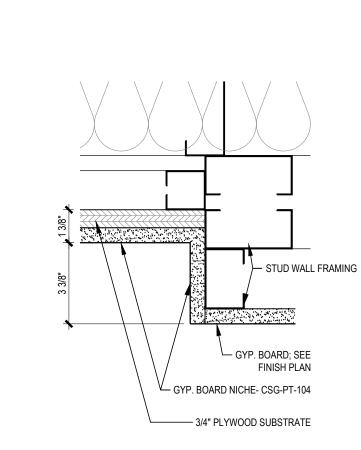
ROBERT BRUCE

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504 HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

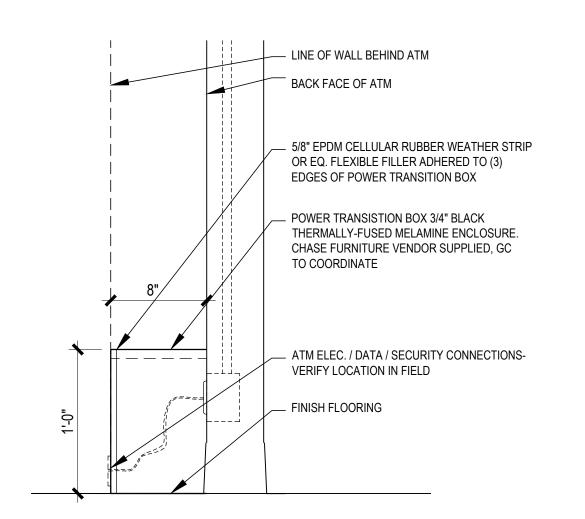
DESCRIPTION

JPM.27135.001 2020.12.21 C.THEBEAU B.LaSURS

EXTERIOR CORNERS AND STOREFRONT MULLION



SCREEN NICHE



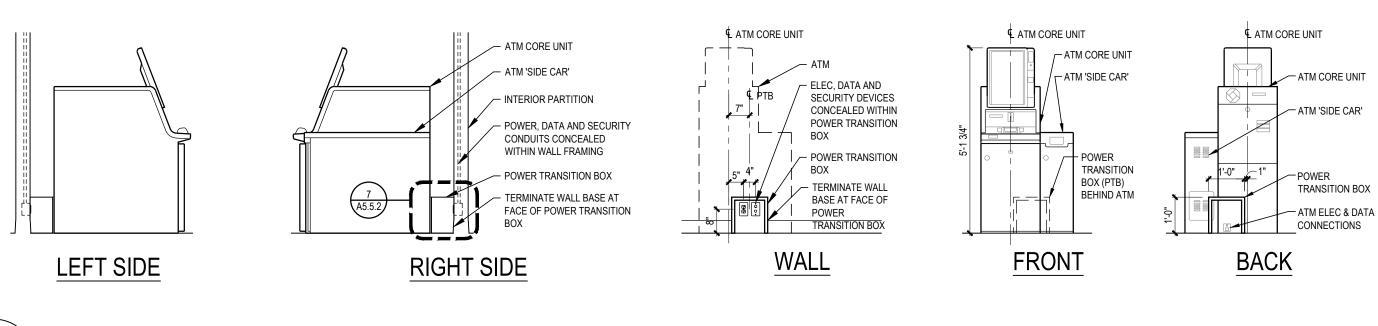
MILLWORK POWER TRANSITION BOX A5.5.2 1 1/2" = 1'=0"

ELEVATION A5.5.2 1-1/2" = 1'-0" A5.5.2 1-1/2" = 1'-0" -OPTIONAL ACCENT PANEL & POWER CORD - BY BANK EQUIP. VENDOR - eATM UNIT BEYOND - 6"x6" MTL. ENCLOSURE - BY BANK EQUIP. VENDOR - ARMORED DATA CABLES -1 3/4" DIA. OPENING IN eATM FOR ELEC. & DATA FEEDS - 2-GANG J-BOX SUPPORTED ON RIGID CONDUIT -RIGID CONDUIT CONNECTIONS TO GANG BOX FOR SEPARATE ELEC, DATA & SECURITY FEEDS

ATM KEY BOX-

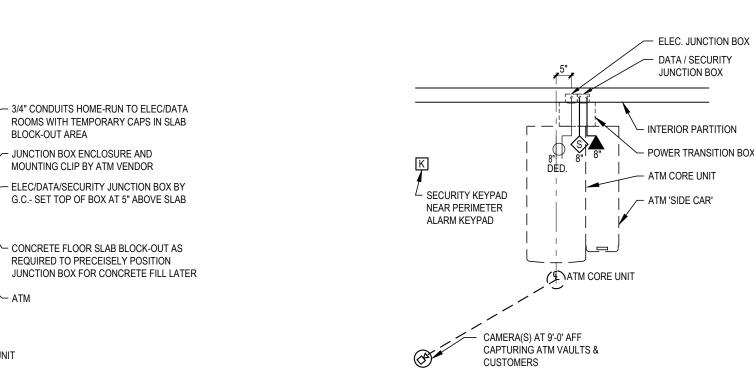
ATM KEY BOX-

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

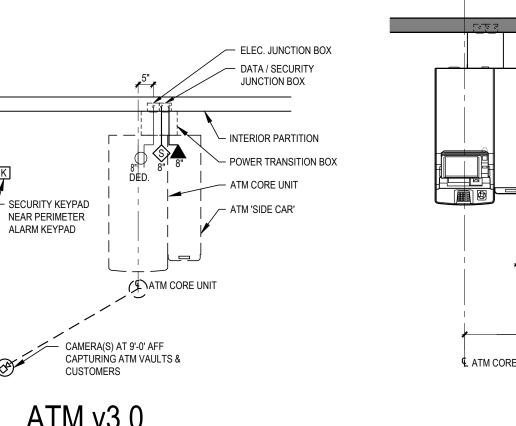


ATM v3.0 ELEVATIONS A5.5.2 3/8" = 1'-0"

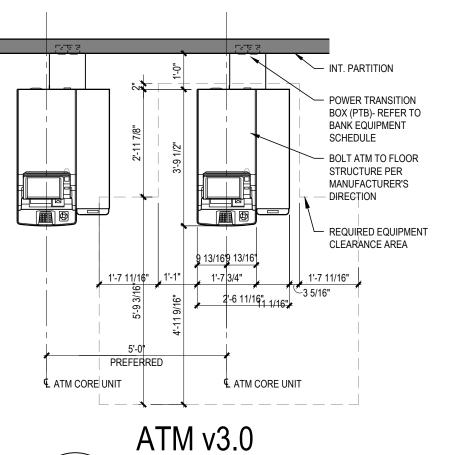
ATM CORE UNIT



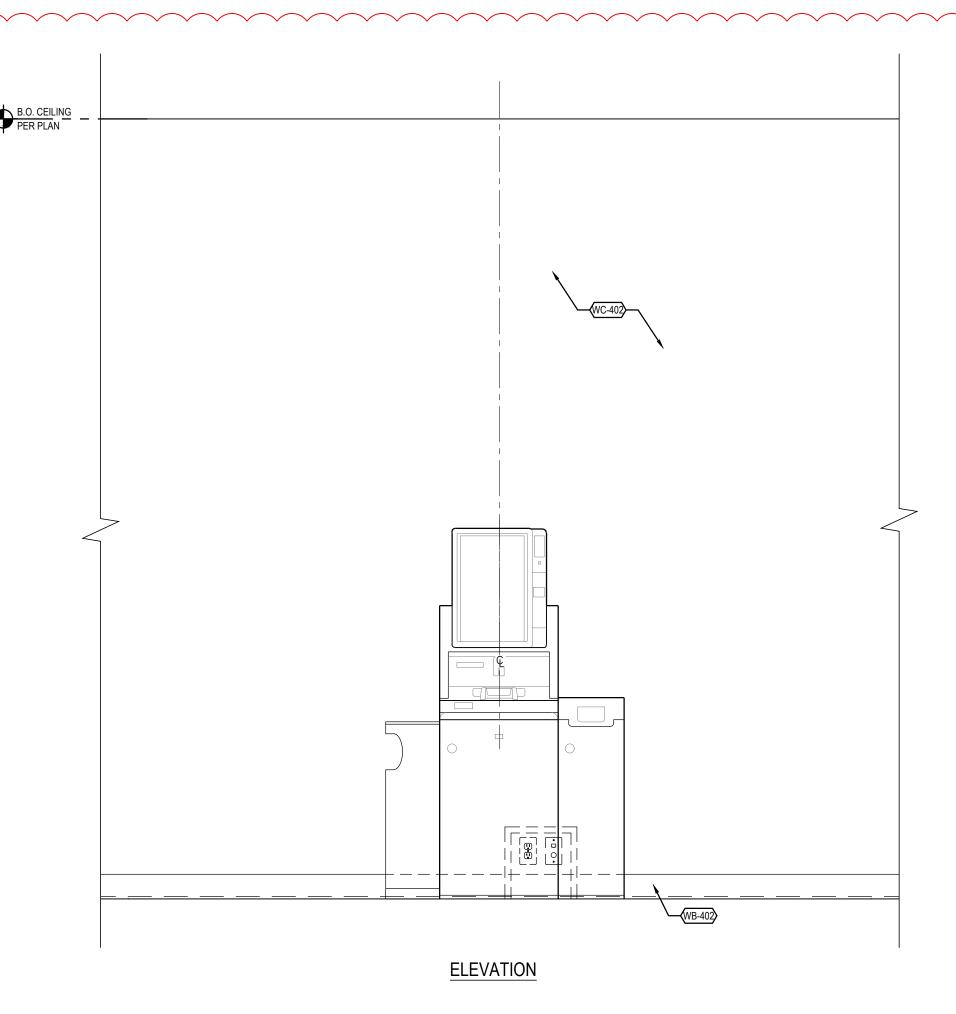
ATM v3.0 ATM v3.0 FREESTANDING PLAN A5.5.2 3/8" = 1'-0"



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



FLOOR PLAN A5.5.2 3/8" = 1'-0"



INT. ELEV. AT eATM V3.0

A5.5.2 3/4" = 1'-0"

DETAILS: ATM SHEET NUMBER

A5.5.2

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

GROUP

COA #: A-2014026908

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

ARCHITECT OF RECORD

ROBERT BRUCE

ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504

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SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

DESCRIPTION

- 2020.12.21 PERMIT SET

PROJECT INFORMATION

JPM.27135.001

2020.12.21

C.THEBEAU

B.LaSURS

SE_1.00

PROJECT NO:

PROTOTYPE:

DRAWN BY:

VERSION:

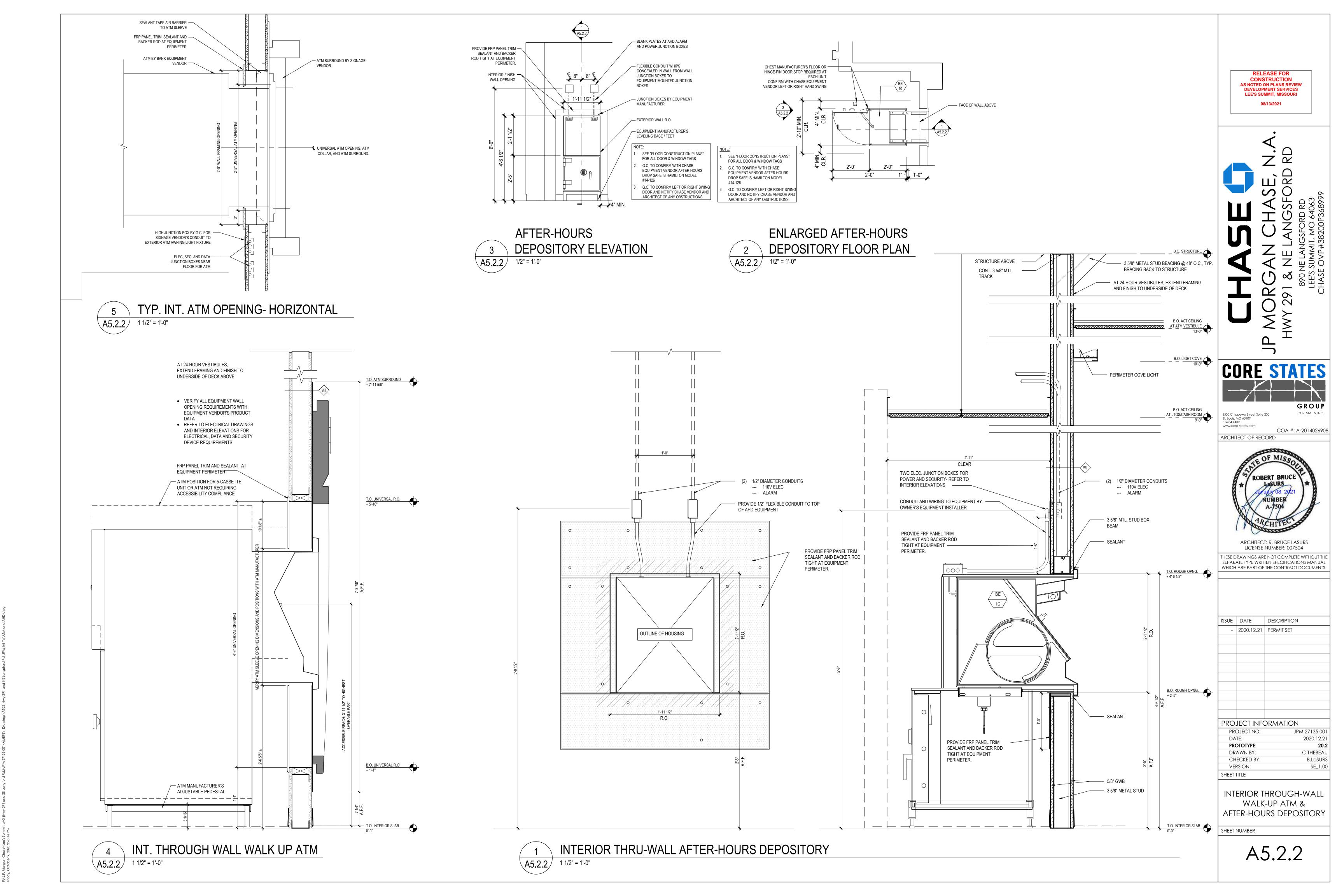
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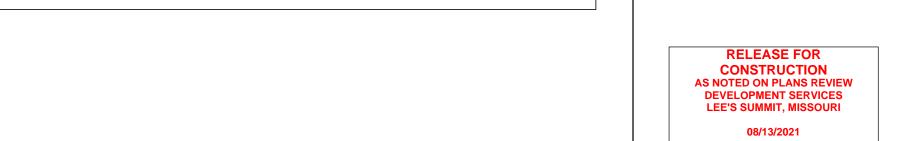
CHECKED BY:

1 2021.04.20 STRUCTURAL STEEL REV 2 2021.06.03 PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

ISSUE DATE

WHICH ARE PART OF THE CONTRACT DOCUMENTS.





- RUN ROOF MEMBRANE UNDER DRAIN

- EXTEND TAPERED INSULATION OVER

- ROOF DRAIN MANUFACTURER'S DECK

- PRESSURE-TREATED WOOD BLOCKING

- 6" MIN. THICKNESS RIGID ROOF DECK

- SPRAY-APPLIED INSULATION AS REQD. TO BRIDGE INTERIOR PIPE JACKETS TO

MANUFACTURED PIPE INSULATION

- ROOF DRAIN OUTLET TO STORM

ROOF DECK INSULATION

ROOF DRAIN DECK PLATE

CLAMP COLLAR

MOUNTING PLATE

AS REQUIRED

INSULATION

ROOF DECKING





COA #: A-2014026908 ARCHITECT OF RECORD

ROBERT BRUCE

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

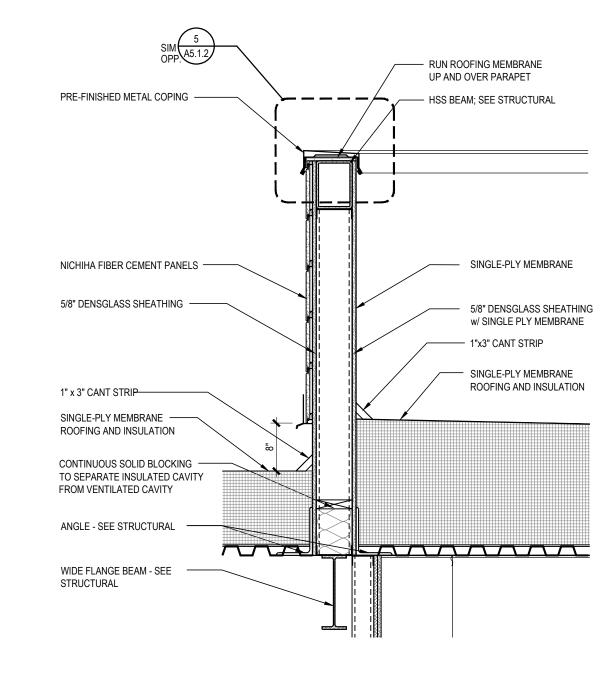
PROJECT INFORMATION

PROJECT NO: JPM.27135.001 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

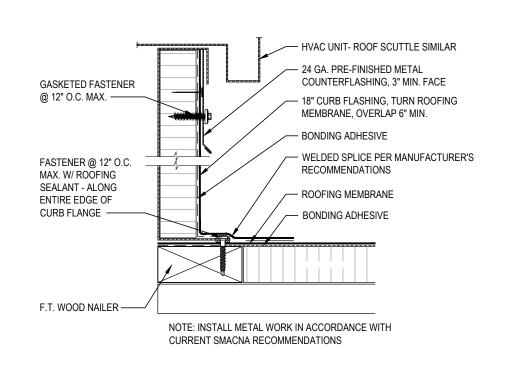
DETAILS:

SHEET NUMBER

A5.3.1





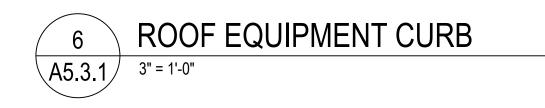


2" EXTERNAL

WATER DAM —

A5.3.1

1 1/2" = 1'-0"



- 5/8" DENSGLASS SHEATHING

___ 3/8" PORTLAND CEMENT SCRATCH COAT W/ EXPANDED GALV. STL. LATH*

 FLASHING WITH DRAIN → EDGE @ WEEP @ 24" O.C.

- PRE-FIN. ALUM.

- LAP ROOFING

AND UNDER

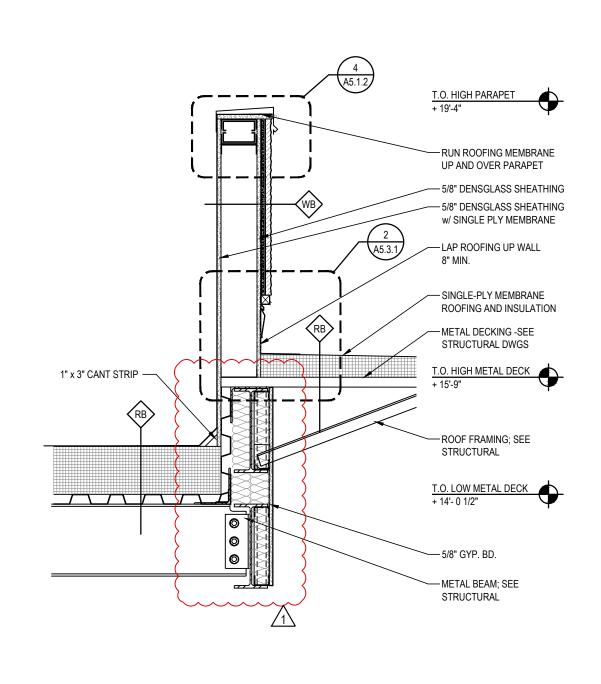
SPRING-LOCK FLASHING

MEMBRANE UP WALL

- T.O. ROOF INSULATION

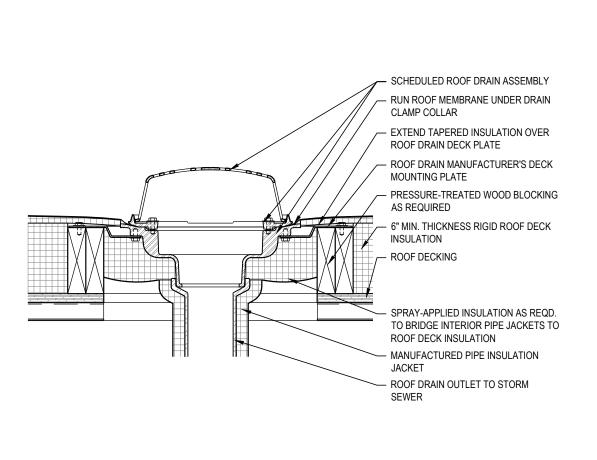
SPRING-LOCK FLASHING

- STONE VENEER _ PORTLAND CEMENT



ROOF DRAIN WITH OVERFLOW





- RUN ROOFING MEMBRANE

UP AND OVER PARAPET

HSS BEAM; SEE STRUCTURAL

NICHIHA FIBER CEMENT PANELS

5/8" DENSGLASS SHEATHING SEALANT AND BACKER ROD

AROUND TOP AND SIDES ONLY

- ALUM CLIPS FASTENED TO

- DRIP EDGE

ACCESS OPENING SECTION

- 1" x 3" CANT STRIP

PRE-FINISHED METAL COPING _

5/8" DENSGLASS SHEATHING —

BOX HEADER REFER TO STRUCTURE -

5/8" DENSGLASS SHEATHING , ALL 4 SIDES —

LAP ROOFING AND PARAPET MEMBRANE

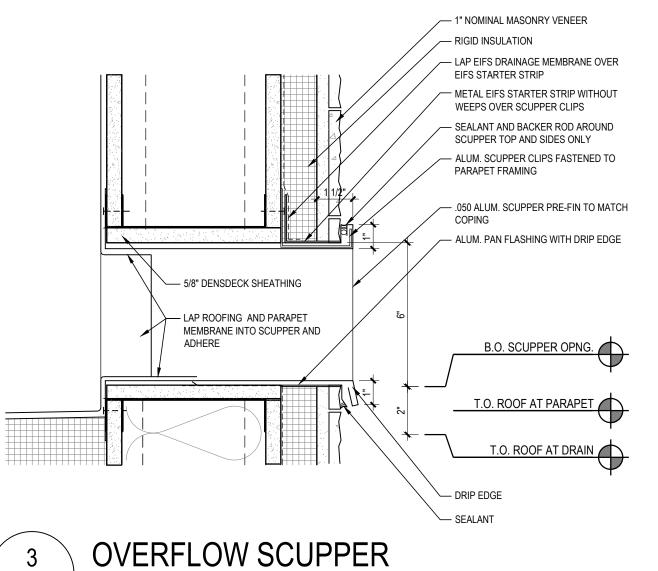
ALUM. PAN FLASHING WITH DRIP EDGE -

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

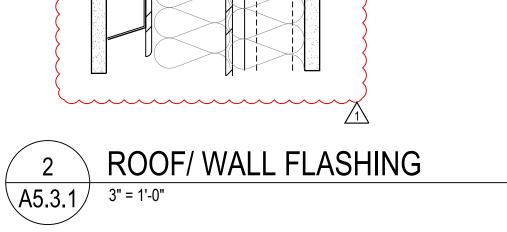
w/ SINGLE-PLY MEMBRANE

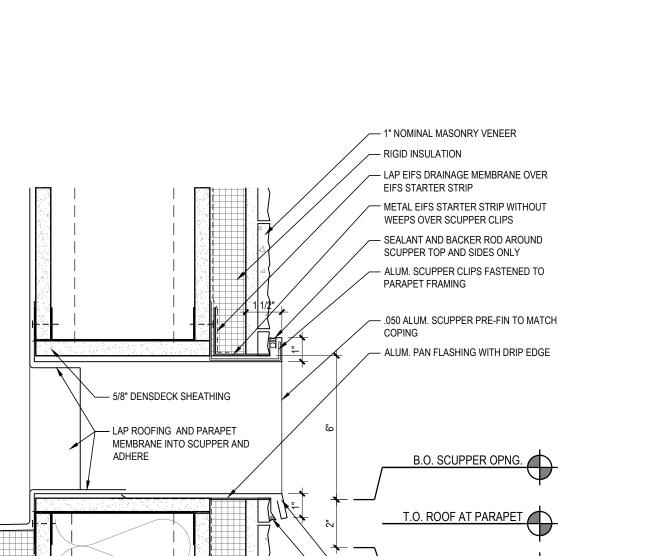
INTO OPENING

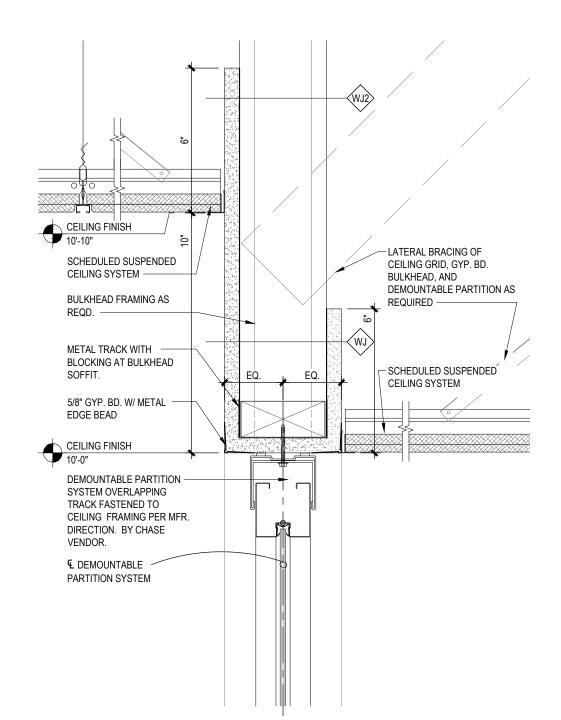




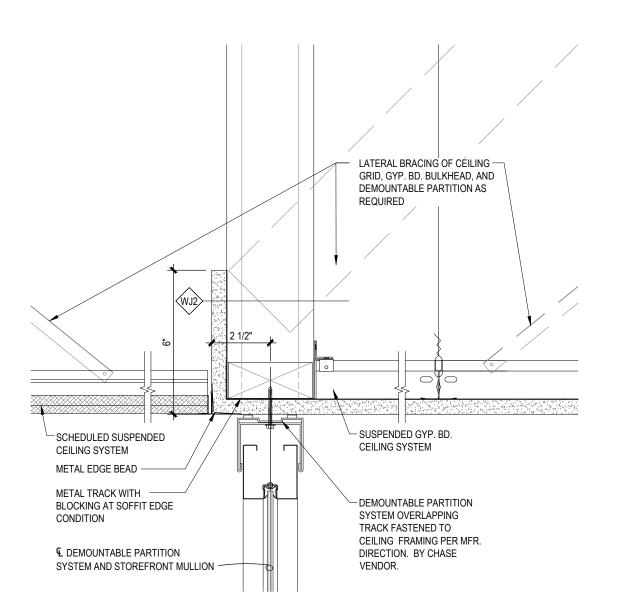
A5.3.1 3" = 1'-0"



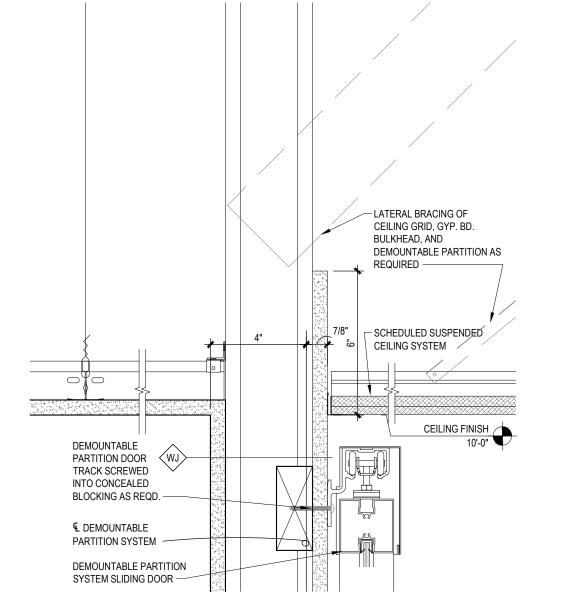




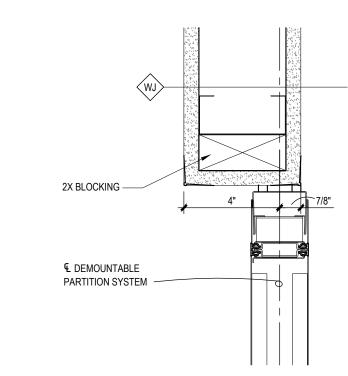
TYP. OFFICE / LOBBY AT DEMOUNTABLE PARTITION - CENTERED A5.3.3 3" = 1'-0"



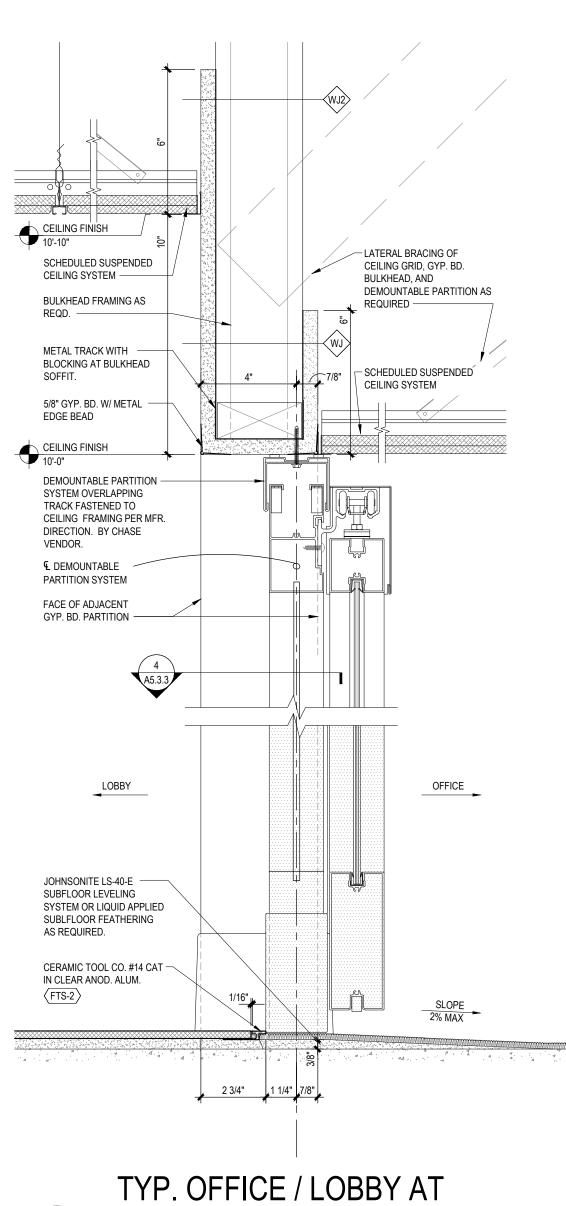
TYP. OFFICE / CONFERENCE AT DEMOUNTABLE PARTITION A5.3.3 3" = 1'-0"

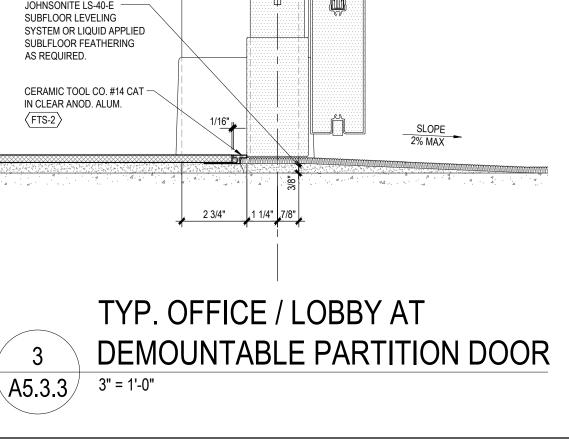


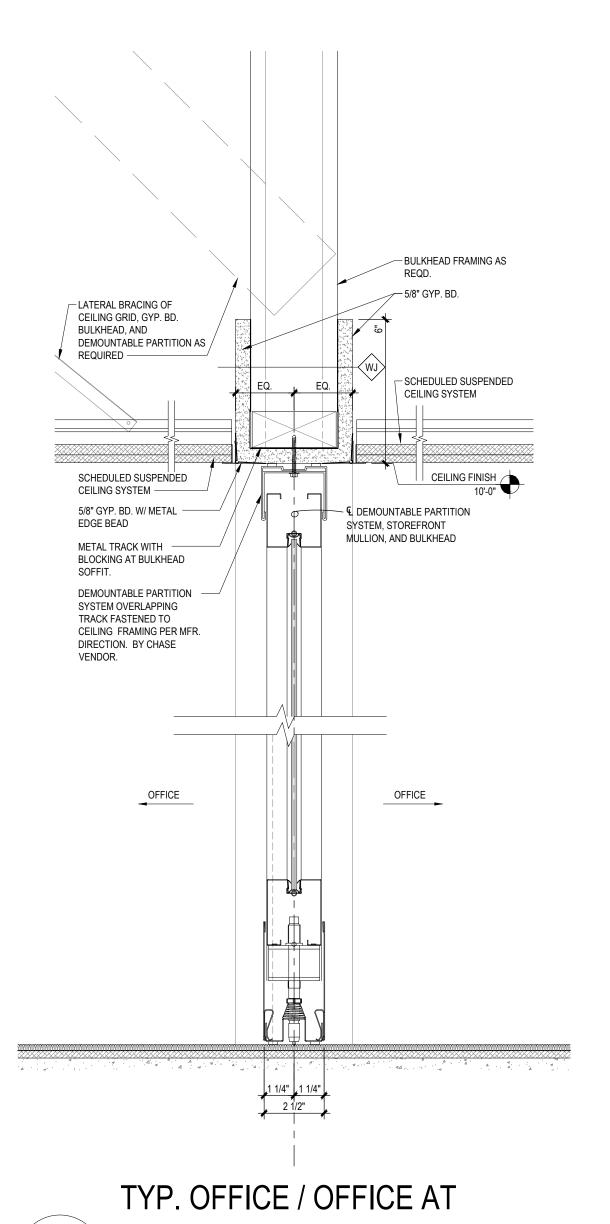
DEMOUNTABLE PARTITION SLIDING DOOR TRACK $A5.3.\overline{3}$ 3" = 1'-0"

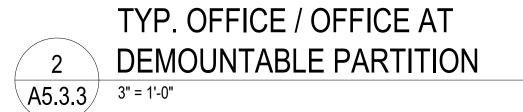


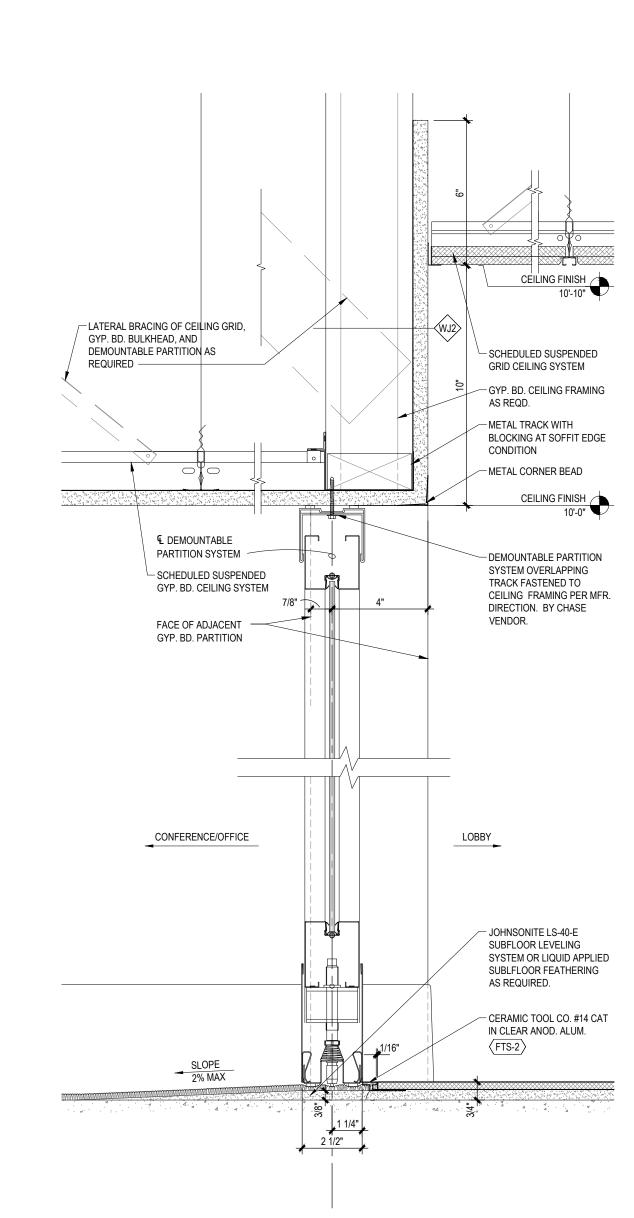
TYP. GYPSUM JAMB AT DEMOUNTABLE PARTITION





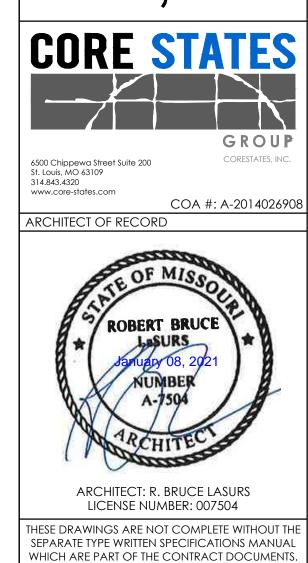












SSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

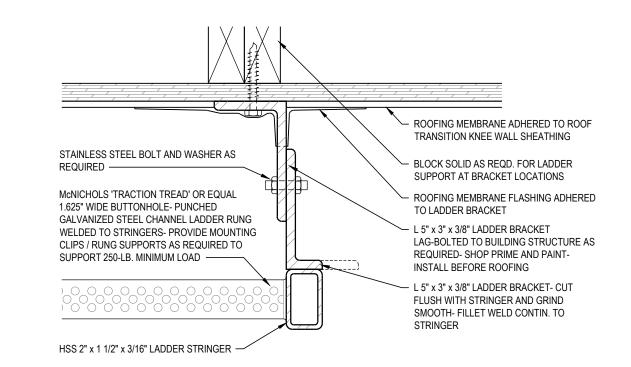
RO.	JECT INFO	DRMATION
PRO	DJECT NO:	JPM.27135.00
DA	TE:	2020.12.2
PRC	OTOTYPE:	20.
DR	AWN BY:	C.THEBEA
СН	ECKED BY:	B.LaSUR
VEF	RSION:	SE_1.0
IEET 1	TITLE .	

INTERIOR DETAILS: DEMOUNTABLE PARTITIONS CEILING TRANSITIONS

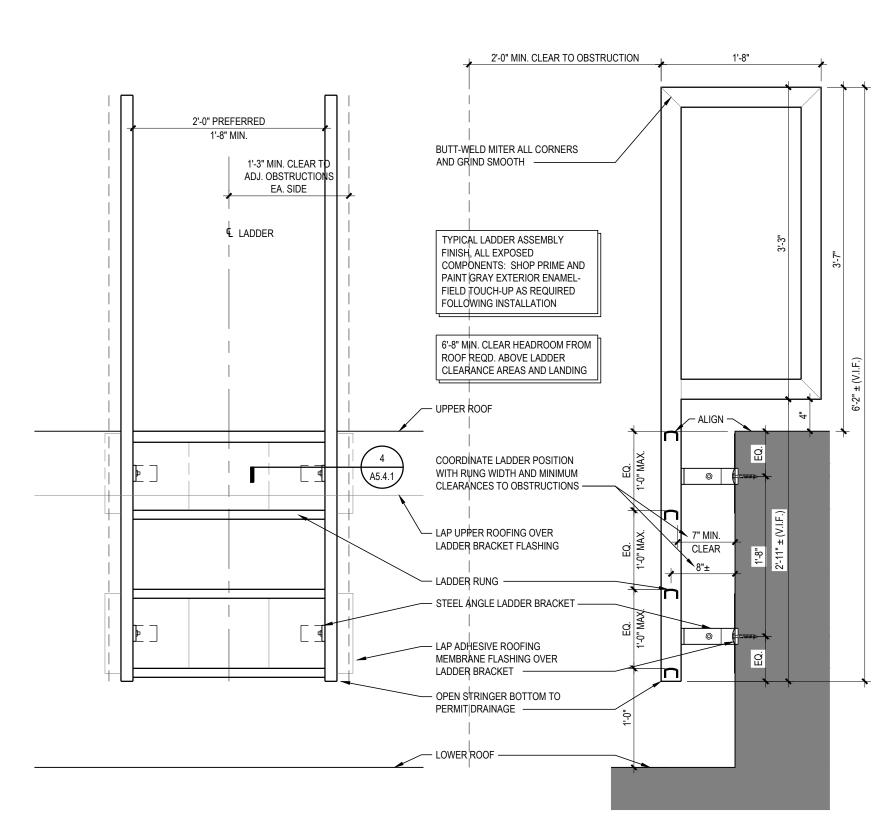
SHEET NUMBER

A5.3.3

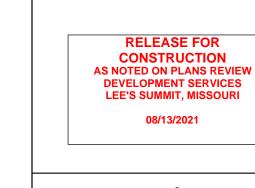
8 ROOF SCUTTLE LADDER- SECTION 8 3" = 1'-0"



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







JP MORGAN CHASE, N.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD



St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD

ROBERT BRUCE

SURS

APRIL 21, 2021
NUNIBER

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

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SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

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

DETAILS: EXTERIOR ENVELOPE, ROOF SCUTTLE, AND LADDERS

SHEET NUMBER

SHEET TITLE

A5.4.1

6'-8" MIN. CLEAR HEADROOM FROM ROOF REQD. ABOVE SCUTTLE SHAFT AND ROOF LANDING AREA PRE-FAB. ROOF SCUTTLE AND CURB ASSEMBLY WITH INTEGRAL MOUNTING BRACKETS -ENSURE 1'-0" MIN. CLEARAN E SPRING CLIP ("CARABINER") BY G.C. THROUGH LATCH ABOVE ROOF FINISHES. -MANUALLY RETRACTABLE LADDER SAFETY POST BY SCUTTLE MANUFACTURER **BOLTED TO RUNGS** AGAINST STRINGER -CONTIN. F.T. WD. NAILER-BOLTED TO ROOF DECK HOLD-OPEN ARM, LIFT ROOF MEMBRANE -STRUT AND OTHER BUILT-UP RIGID \(\to\)
INSULATION HARDWARE MUST BE CLEAR OF LADDER WIDTH TO COMPLY WITH OSHA CODE — ROOF DECK ROUGH FRAMING-REFER TO STRUCT. DWGS.- COVER WITH INT. FINISH —— WOOD TRIM AS REQD. TO COVER ROUGH FRAMING- FOR PAINT FINISH LADDER WALL BRACKET -LADDER STRINGER — LADDER RUNG -LIGHT FIXTURE W/ INTEGRAL OCCUPANCY SENSOR- PROVIDE 1 FIXTURE FOR SHAFTS ≥ 3' AND 1 ADDITIONAL FIXTURE FOR EACH 4' OF ADDITIONAL SHAFT DEPTH —

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

ROOF SCUT

LADDER FLOOR BRACKET —

ROOF SCUTTLE & LADDER - SECTION

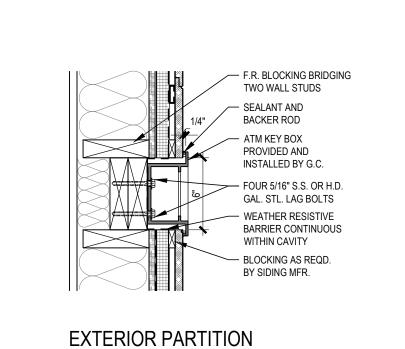
- COORDINATE LADDER
POSITION WITH RUNG

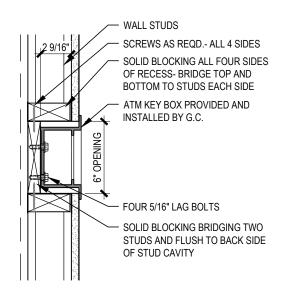
WIDTH AND MINIMUM

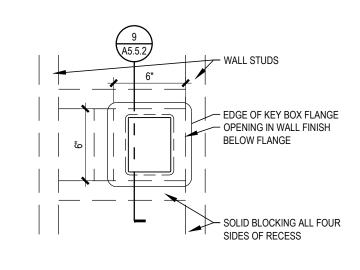
CLEARANCES TO WALLS —

2'-0" MIN. CLEAR

Tuesday, April 20, 2021 4:29:13 PM











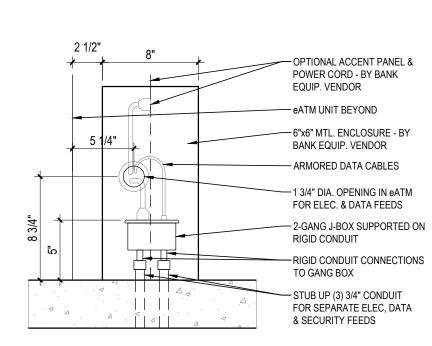
INTERIOR PARTITION

ATM KEY BOX-SECTION

A5.5.2 1-1/2" = 1'-0"

ATM KEY BOX-**ELEVATION**

√A5.5.2 1-1/2" = 1'-0"



FREESTANDING eATM - ELEC./DATA/

WALL CAVITY OPEN TO PLENUM ABOVE FOR VENTING

ONLY WHERE REQUIRED

FOR FIRE BLOCKING -

PREFERRED - CAP FRAMING

SECURITY ROUGH-INS (VERT.)





BRACE WALL FRAMING TO

STRUCTURE ABOVE PER

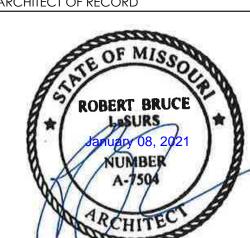
STRUCTURAL DRAWINGS

- 5/8" GYP BD. SCREEN

POCKET INTERIOR FINISH

— 3/4" PLYWOOD BACK PANEL UNDER GYP. BD. FINISH

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
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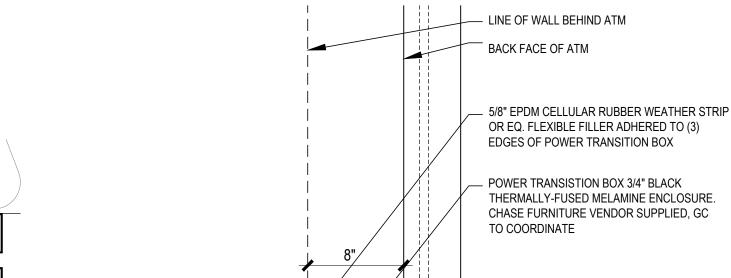
PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21

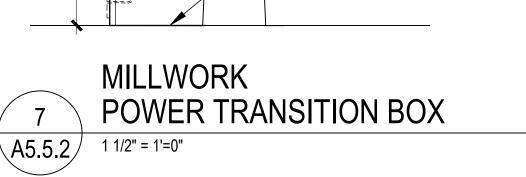
PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

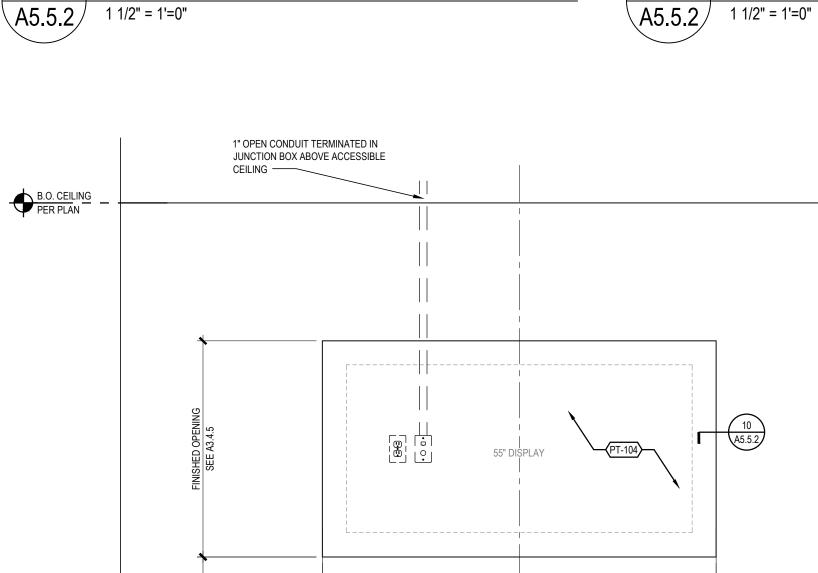
> **DETAILS:** ATM

SHEET NUMBER

A5.5.2





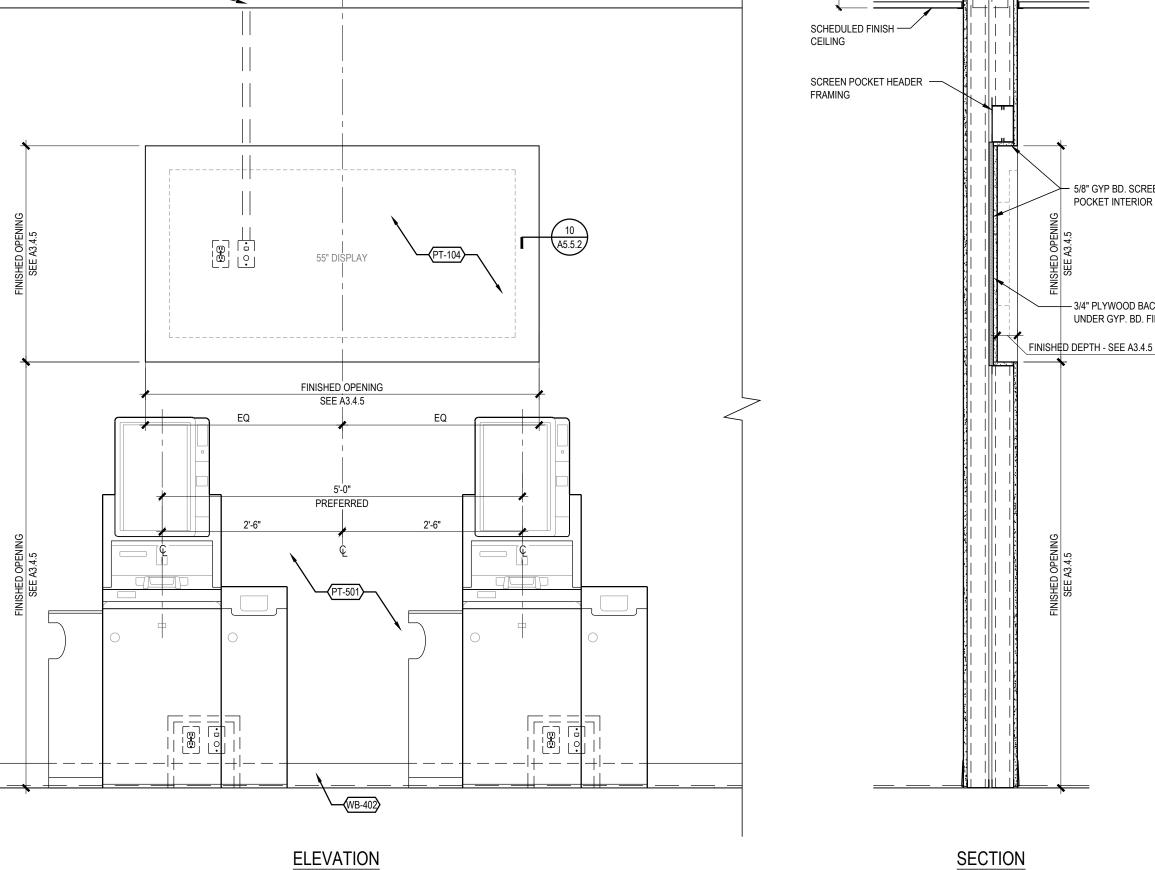


A5.5.2 3/4" = 1'-0"

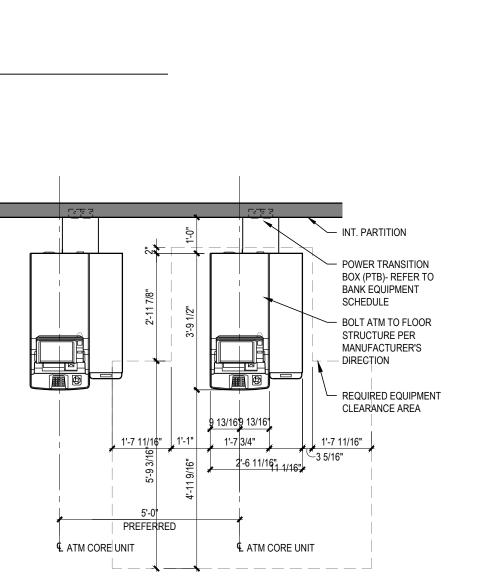
ATM ELEC. / DATA / SECURITY CONNECTIONS-

VERIFY LOCATION IN FIELD

FINISH FLOORING



SOLUTION #1-55" DISPLAY AT eATMS V3.0



— STUD WALL FRAMING

ATM CORE UNIT

BACK

ATM CORE UNIT

← ATM 'SIDE CAR'

-POWER

TRANSITION BOX

- ATM ELEC & DATA

CONNECTIONS

GYP. BOARD; SEE FINISH PLAN

V— GYP. BOARD NICHE- CSG-PT-104

----- 3/4" PLYWOOD SUBSTRATE

SCREEN NICHE

L ATM CORE UNIT

FRONT

_ ATM CORE UNIT

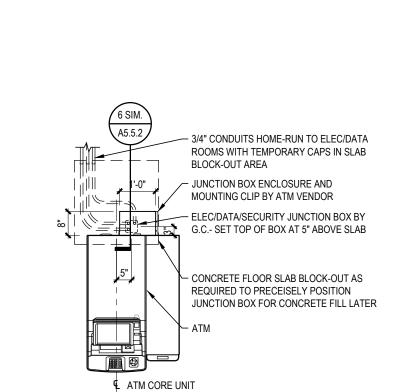
ATM 'SIDE CAR'

TRANSITION

BOX (PTB)

BEHIND ATM



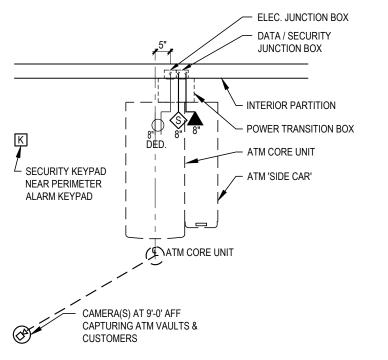


ATM v3.0 ELEVATIONS

LEFT SIDE

A5.5.2 3/8" = 1'-0"





L ATM CORE UNIT

_ ELEC, DATA AND SECURITY DEVICES

BOX

BOX

POWER TRANSITION BOX

WALL

CONCEALED WITHIN

POWER TRANSITION

— POWER TRANSITION

✓ TERMINATE WALL

BASE AT FACE OF

— ATM CORE UNIT

- ATM 'SIDE CAR'

RIGHT SIDE

- INTERIOR PARTITION

- POWER, DATA AND SECURITY

CONDUITS CONCEALED

- POWER TRANSITION BOX

TERMINATE WALL BASE AT

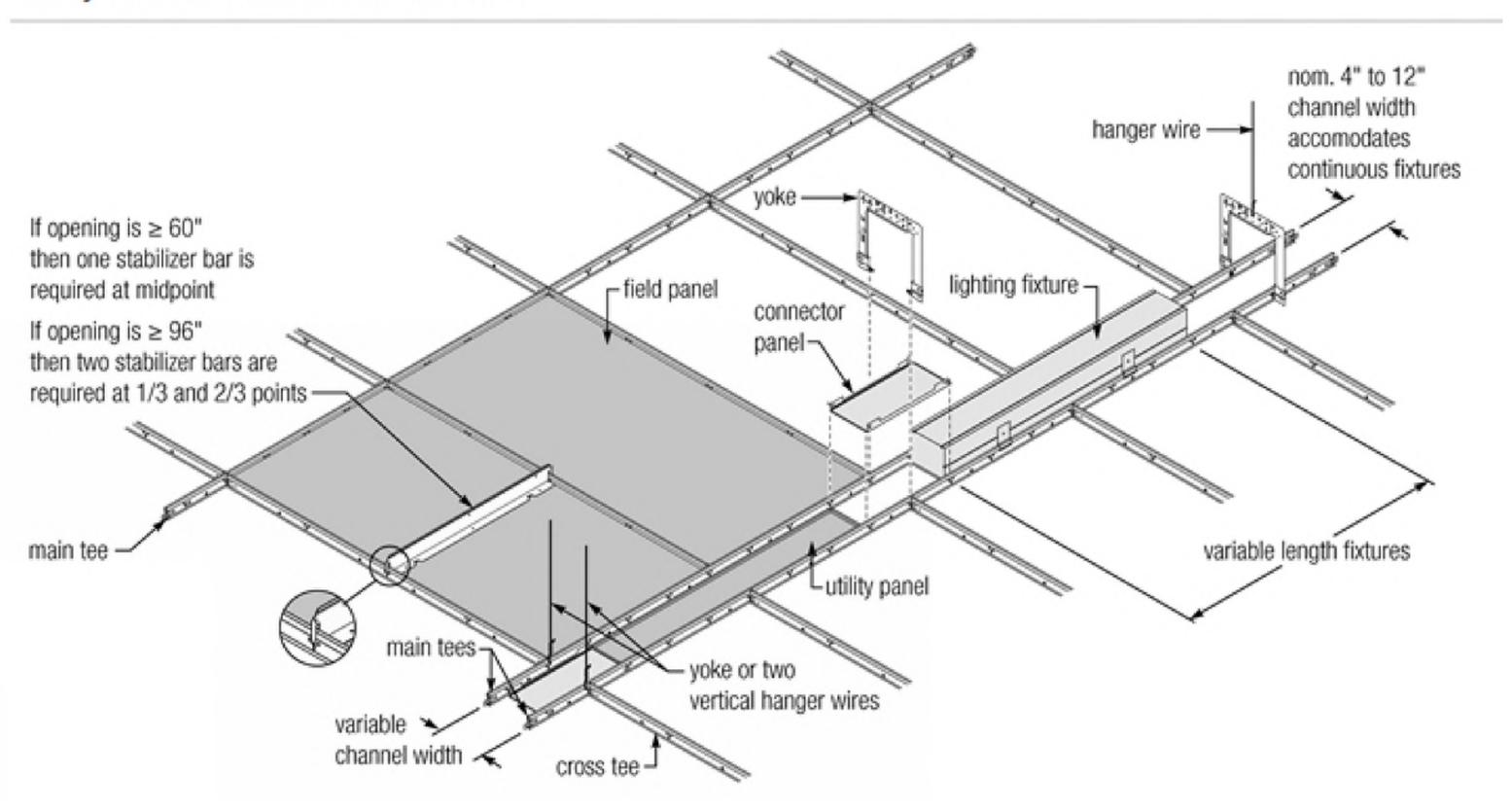
FACE OF POWER TRANSITION

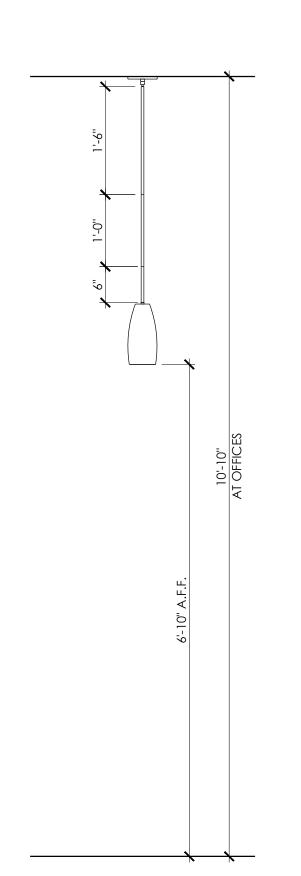
WITHIN WALL FRAMING

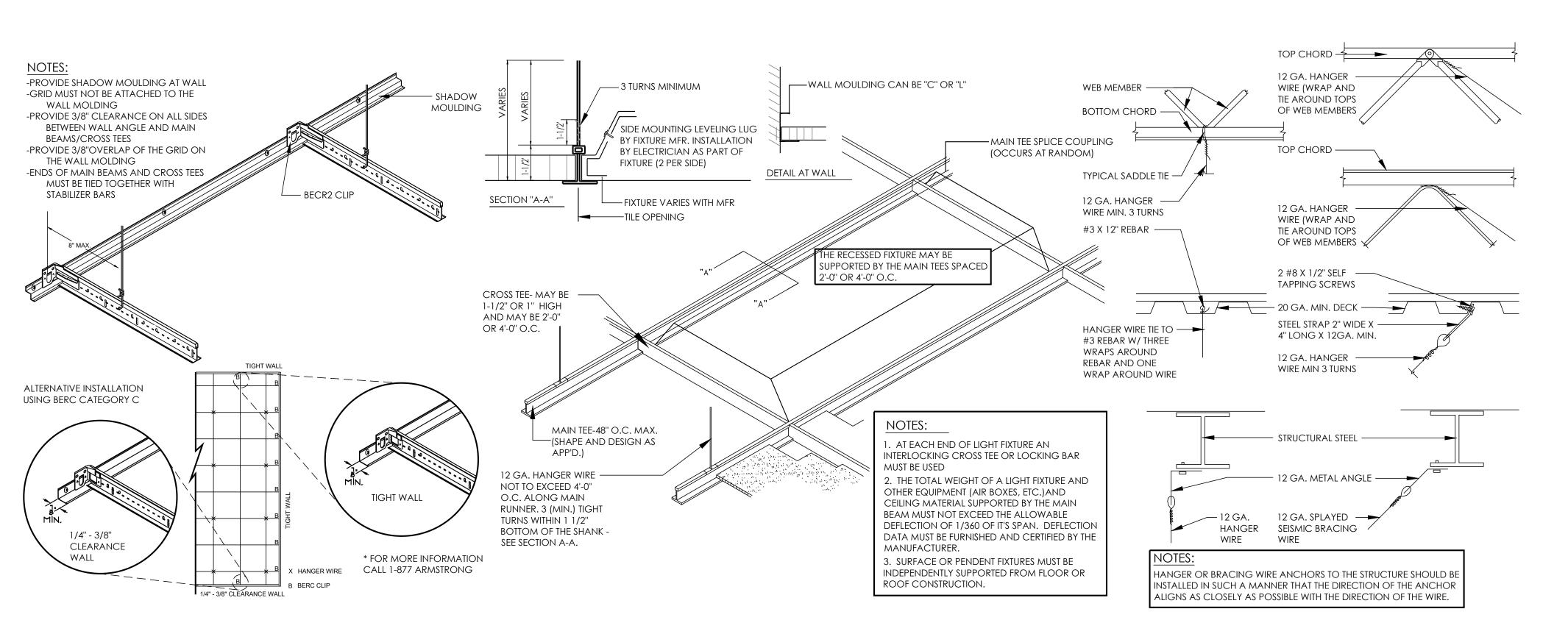


3 LIGHT FIXTURE DETAIL A5.5.4 1/4" = 1'-0"

Utility Channel Created with Main Tees









1 CELING GRID - SEISMIC 'B' DETAILS

A5.5.4 1/4" = 1'-0"



MORGAN CHASE, N.A HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 890 NE LANGSFORD RD 16F'S SHAWIT MO 64063

GROUP

6500 Chippewa Street Suite 200
St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ROBERT BRUCE

ROBERT BRUCE

Samuely 08, 2021

NUMBER

A 7504

ARCHITECT: R. BRUCE LASURS

LICENSE NUMBER: 007504

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ISSUE DATE DESCRIPTION

- 2020.12.21 PERMIT SET

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: C.THEBEAU

CHECKED BY: B.LaSURS

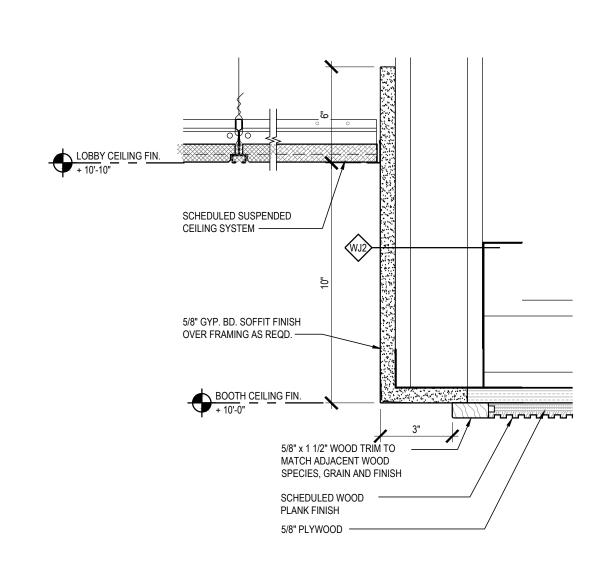
VERSION: SE_1.00

SHEET TITLE

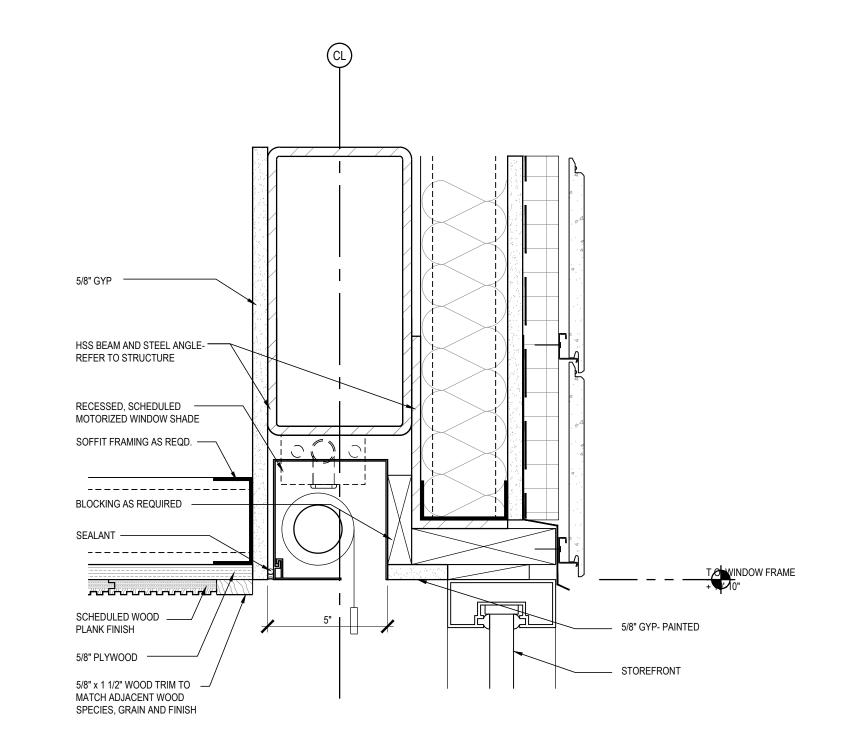
DETAILS: CEILING SEISMIC DESIGN 'B'

SHEET NUMBER

A5.5.4









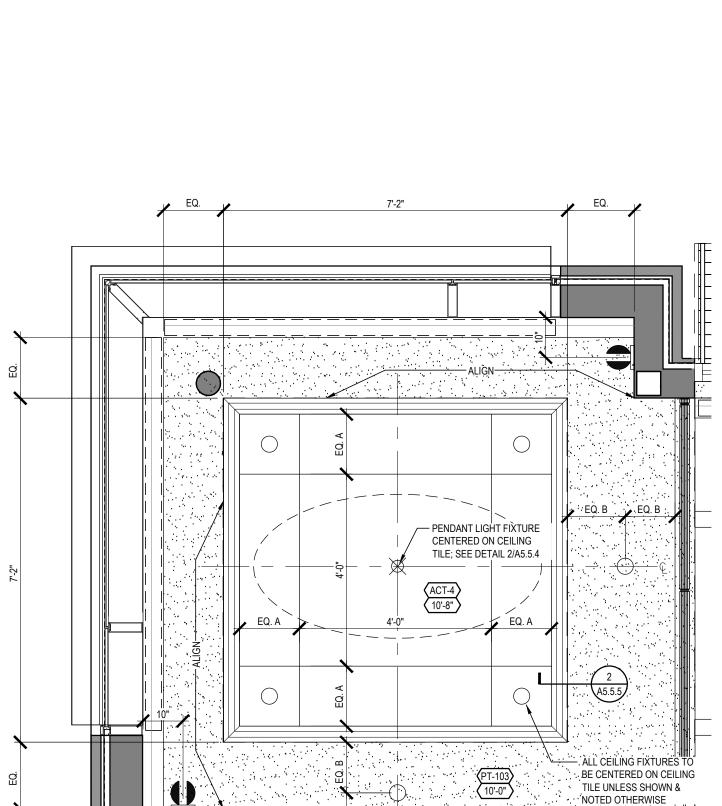
HVAC SA/RA BOOT

TITUS FL10/15 20/16 PERIMETER
 SLOT DIFFUSER

- GYP. BD. SOFFIT ON MTL.

- GYP. BD. CORNER BEAD

FRAMING AS REQD.



ROOF STRUCTURE -

SCHEDULED SUSPENDED -CEILING SYSTEM

5/8" GYP. BD. CEILING —

- TRAY AND SOFFIT FINISH

SCHEDULED STRIP LIGHT -

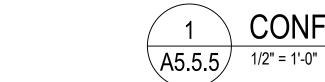
USG COMPASSO ELITE ----

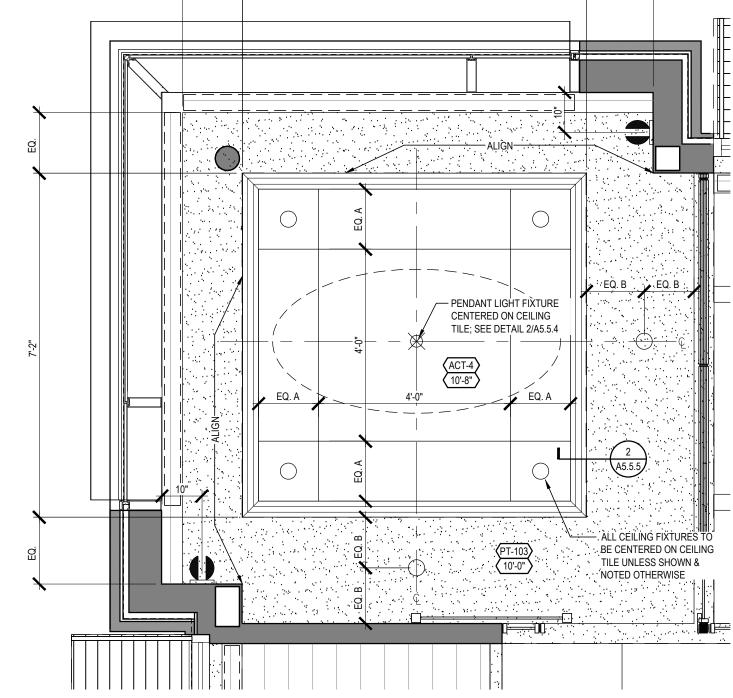
— SCHEDULED SUSPENDED CEILING FRAMING SYSTEM

LOBBY COVE CEILING TRANSITION AT DRT

FIXTURE

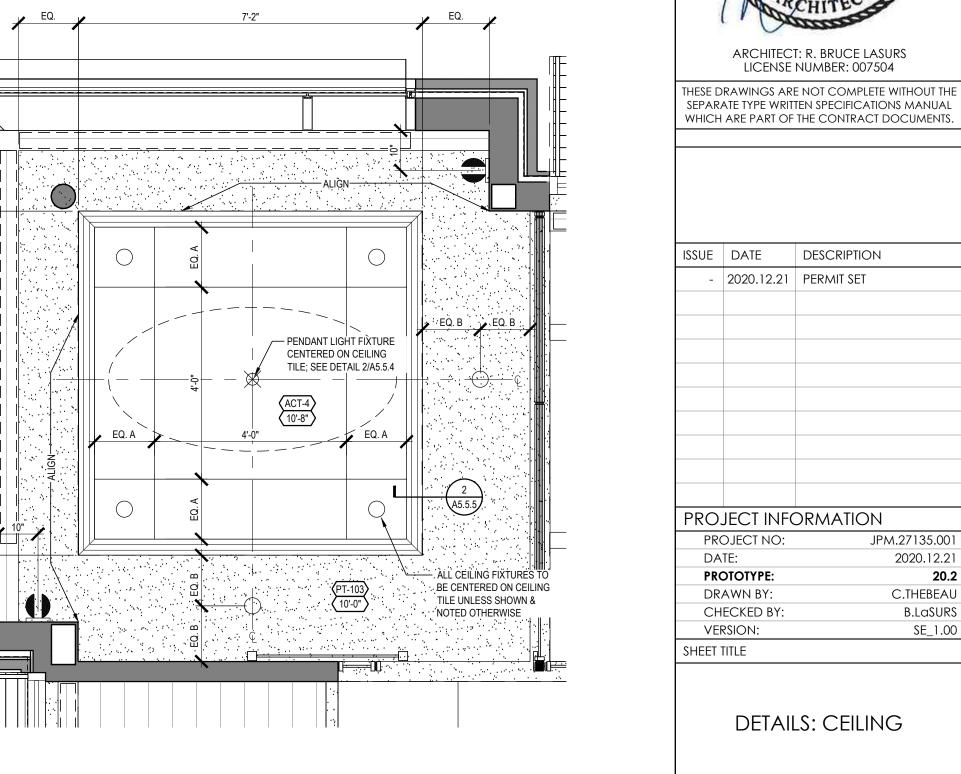
FASCIA

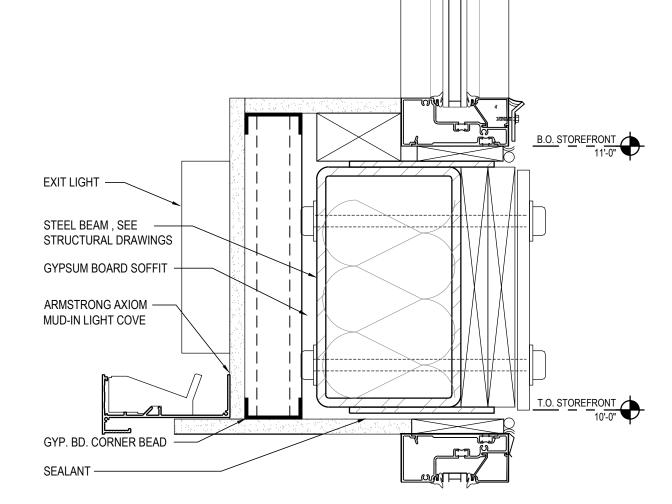




CONFERENCE ROOM CEILING PLAN DETAIL











A5.5.5

SHEET NUMBER

RELEASE FOR CONSTRUCTION

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

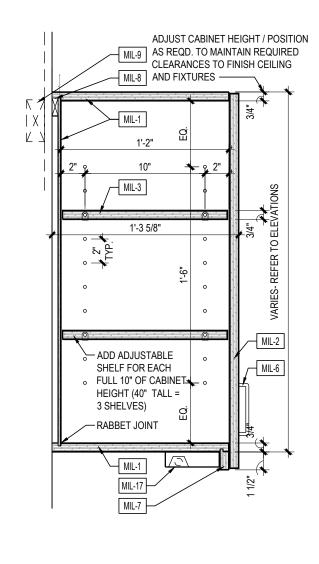
GROUP

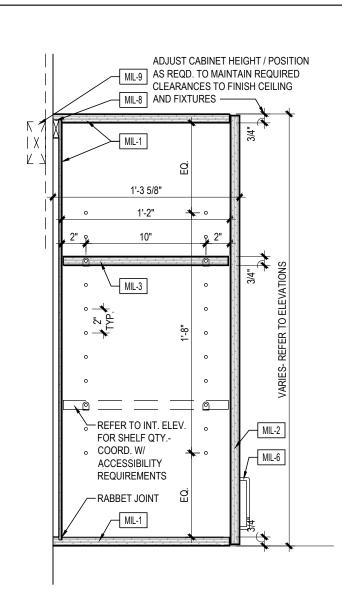
COA #: A-2014026908

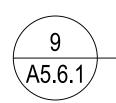
6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

ARCHITECT OF RECORD

ROBERT BRUCE

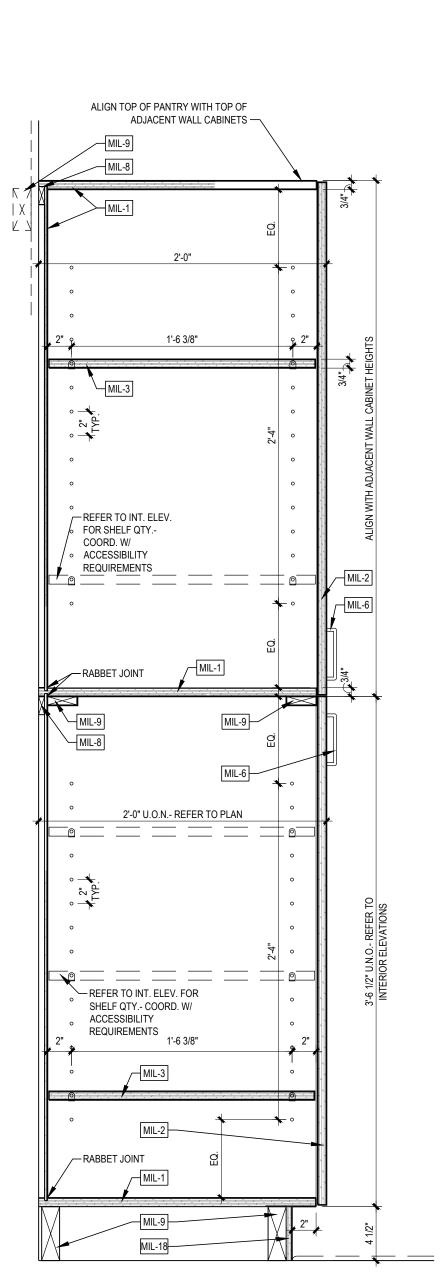


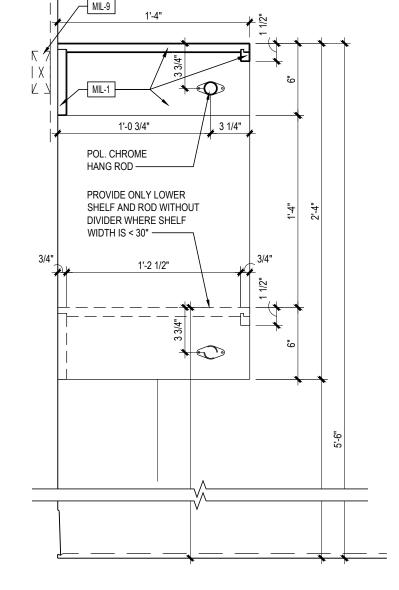


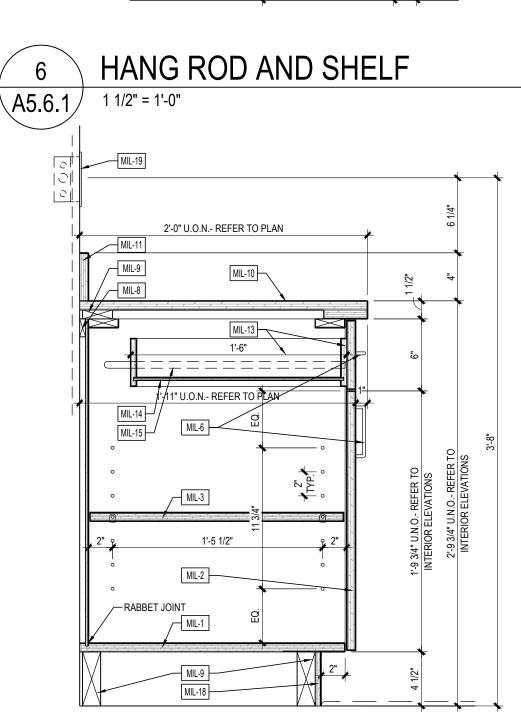


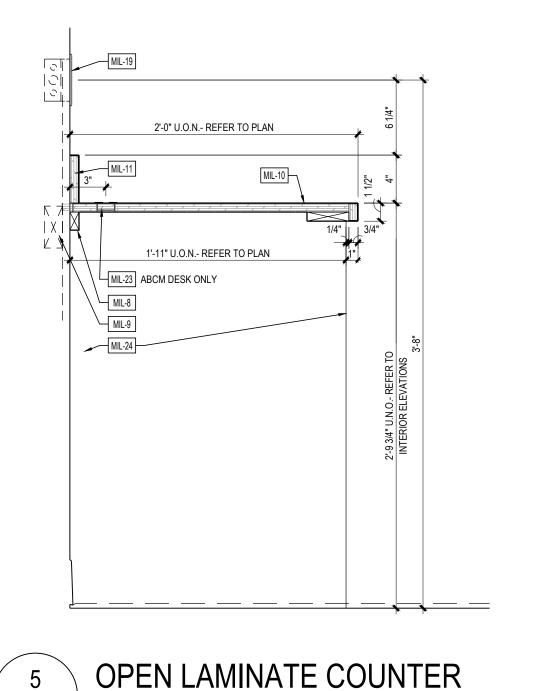
WALL CABINET W/ DOORS & LIGHT FIXTURE

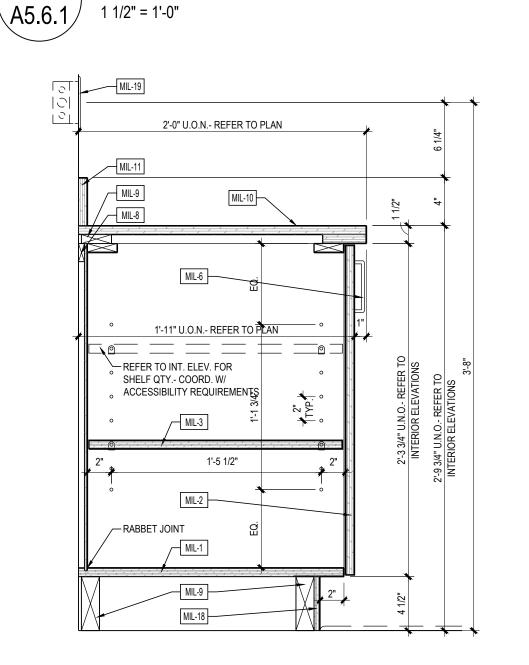


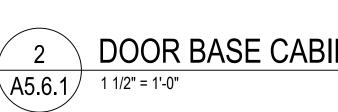


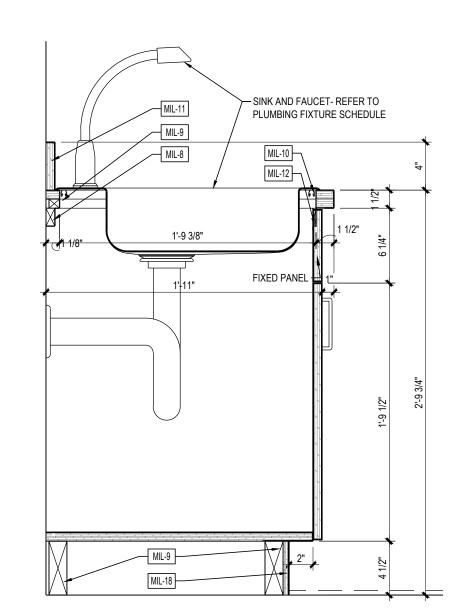












STANDARD SINK BASE SINK BASE CABINET \A5.6.1/

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 CABINET TOP / BOTTOM / SIDE PANEL: 3/4" PLASTIC LAMINATE MDF ALL EXPOSED SURFACES - INTERIOR SURFACES WHITE MELAMINE CABINET DOOR: 3/4" PLASTIC LAMINATE MDF ALL 6 FACES

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

CABINET BACK: 1/4" PLASTIC LAMINATE MDF EXPOSED FACE MIL-5 SURFACE-MOUNT ELECTRICAL / DATA RACEWAY

MIL-6 LIGHT VALENCE: 3/4" PLASTIC LAMINATE MDF EXPOSED FACES CONTINUOUS WOOD CLEAT: SIZE AS REQUIRED-PAINT TO MATCH ADJACENT

WALL SURFACE WOOD BLOCKING AS REQUIRED

COUNTER SPLASH: MATCH COUNTER TOP MATERIAL COUNTER APRON: MATCH COUNTER TOP MATERIAL DRAWER BACK / SIDE / SUB-FRONT: 1/2" WHITE MELAMINE MDF DRAWER BOTTOM: 1/4" WHITE MELAMINE MDF

DRAWER SLIDE: FULL-EXTENSION BALL-BEARING COUNTER EDGE SUPPORT: CONT. STEEL ANGLE BOLTED TO SOLID WOOD BLOCKING CONCEALED WITHIN WALLS- RE-PRIME FOLLOWING INSTALLATION

SCHEDULED LIGHT FIXTURE TOE-KICK: 1/2" MINIMUM PLASTIC LAMINATE MDF- COLOR AND PATTERN TO MATCH CABINET PANELS

COUNTER TOP: REFER TO INTERIOR FINISH MATERIALS SCHEDULE

| ELECTRICAL / DATA ROUGH-IN AND COVER PLATE MIL-20 SINK APRON: 3/4" PLASTIC LAMINATE MDF

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

GROMMET: MOCKET #BRKIT 12" BLACK LINEAR BRUSH GROMMET GROMMET: MOCKET #BG 1 1/2" ROUND BLACK PLASTIC GROMMET

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') 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 SOLID SURFACE COUNTER: 2" BUILT-UP FRONT EDGES, OPENINGS, AND VERTICAL PANELS, ALL CONTACT EDGES EASED- REFER TO INTERIOR FINISH

SCHEDULE FOR MATERIAL SPECIFICATION REFUSE CAN TRAY, 36-QT PLASTIC CAN, AND DRAWER GLIDES ATTACHED TO CABINET BOTTOM AND DRAWER PANELS

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

ELECTRICAL / DATA OUTLETS: COORD. WITH ELECTRICIAN TO PROVIDE MUD RING OF SUFFICIENT DEPTH TO REACH CABINET BACK- INSTALL OVER PLATES OVER CABINET BACK

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 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

PAINTED CABINET BACK: 1/2" MDF FOR PAINT FINISH- REFER TO FINISH MATERIAL SHEDULE FOR PAINT SPECIFICATIONS

FIN PLINTH: SOLID RED OAK FOR STAIN AND CLEAR FINISH PER MATERIALS FINISH SCHEDULE- APPLY FACE BOARD WITH MINIMAL FINISH NAILS TO

SACRIFICIAL BASE: 1/2" x 4" SOLID RED OAK FOR STAIN AND CLEAR FINISH-APPLY WITH MINIMAL FINISH NAILS TO FACILITATE REPLACEMENT

REFUSE OPENING: 4" DIAM. HOLE WITH 2" BUILT-UP EASED EDGE 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.

(6) - DOUG MOCKETT BG3 1-1/2" WHITE (6) - DOUG MOCKETT BG3 1-1/2" BLACK

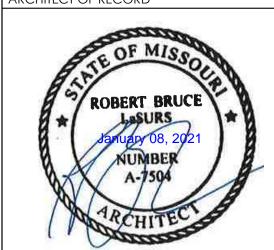
CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021





14.843.4320 COA #: A-2014026908

ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

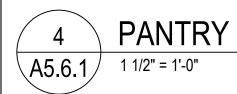
PRO.	JECT INFO	ORMATION
PRO	DJECT NO:	JPM.27135.001
DA	TE:	2020.12.21
PRC	OTOTYPE:	20.2
DR	AWN BY:	C.THEBEAU
СН	ECKED BY:	B.LaSURS
VFF	RSION:	SE 1.00

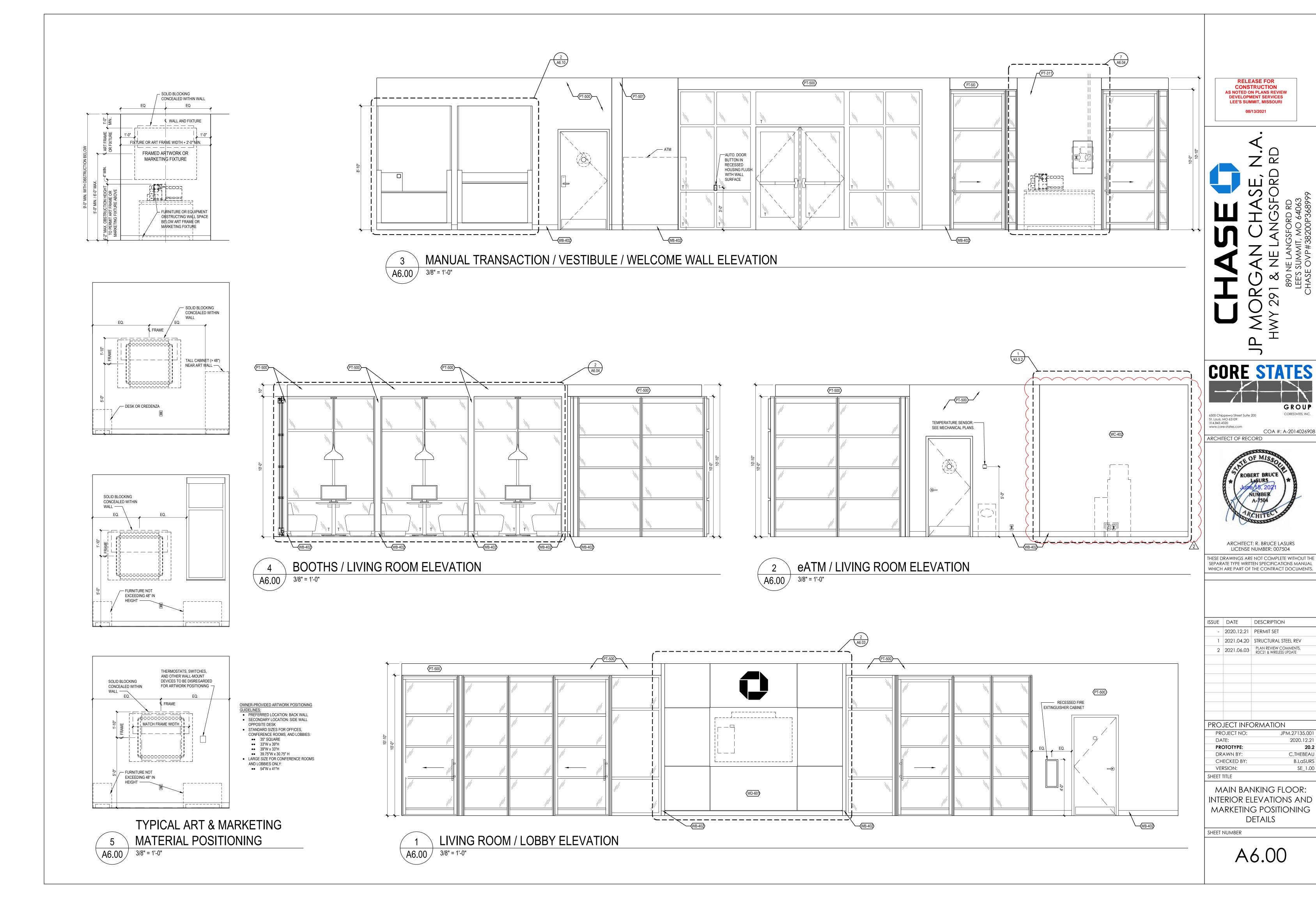
DETAILS: CABINETRY

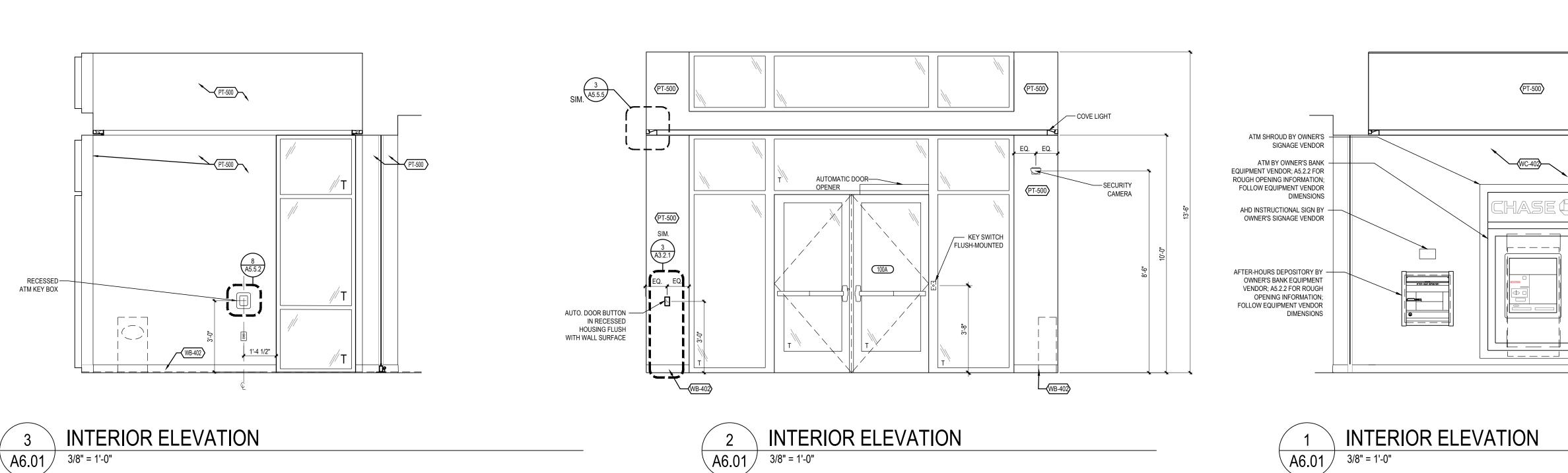
SHEET NUMBER

SHEET TITLE

A5.6.1







THIS WALL TO REMAIN
CLEAR OF ANY
ELECTRICAL OR SYSTEMS
DEVICES EXCEPT AS
NOTED HERE

SHEET NUMBER

A6.01

TRANSACTION VESTIBULE: INTERIOR ELEVATIONS

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

GROUP

CORESTATES, INC.

COA #: A-2014026908

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320 www.core-states.com

ARCHITECT OF RECORD

ISSUE DATE

ROBERT BRUCE

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.

DESCRIPTION

JPM.27135.001

X.X.LASTNAME B.LaSURS

SE_1.00

2020.X%.&X 20.2

- 2020.12.21 PERMIT SET

PROJECT INFORMATION

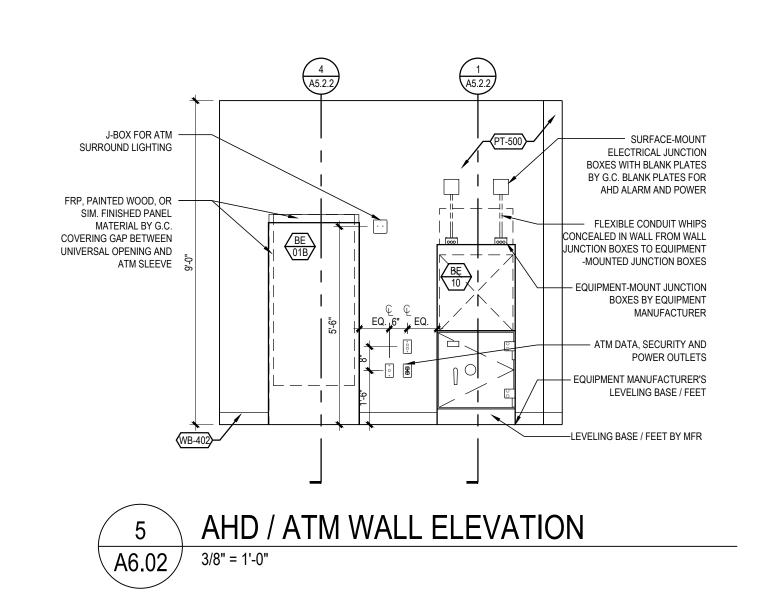
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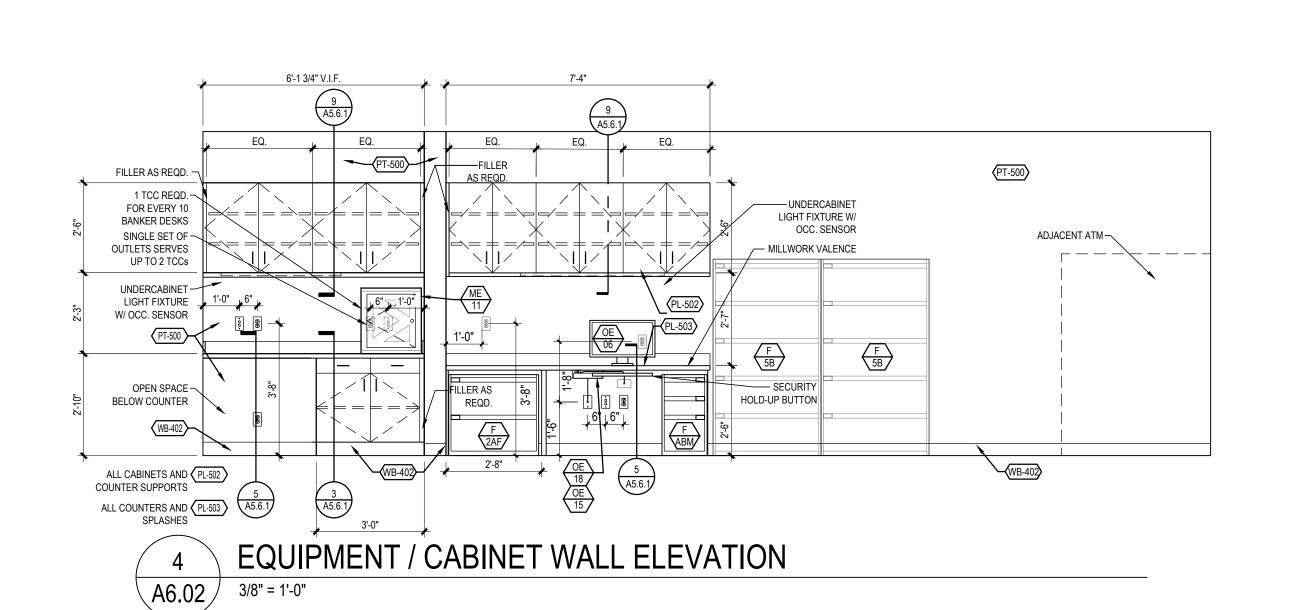
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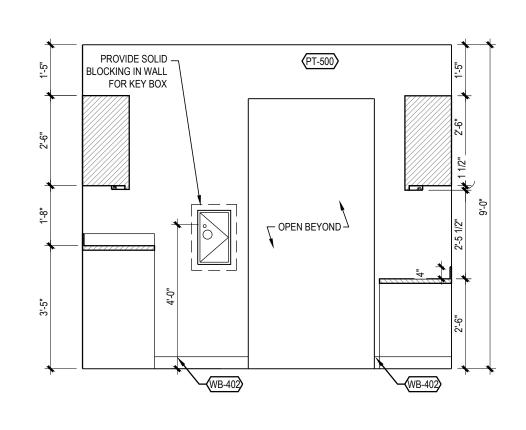
DRAWN BY:

SHEET TITLE

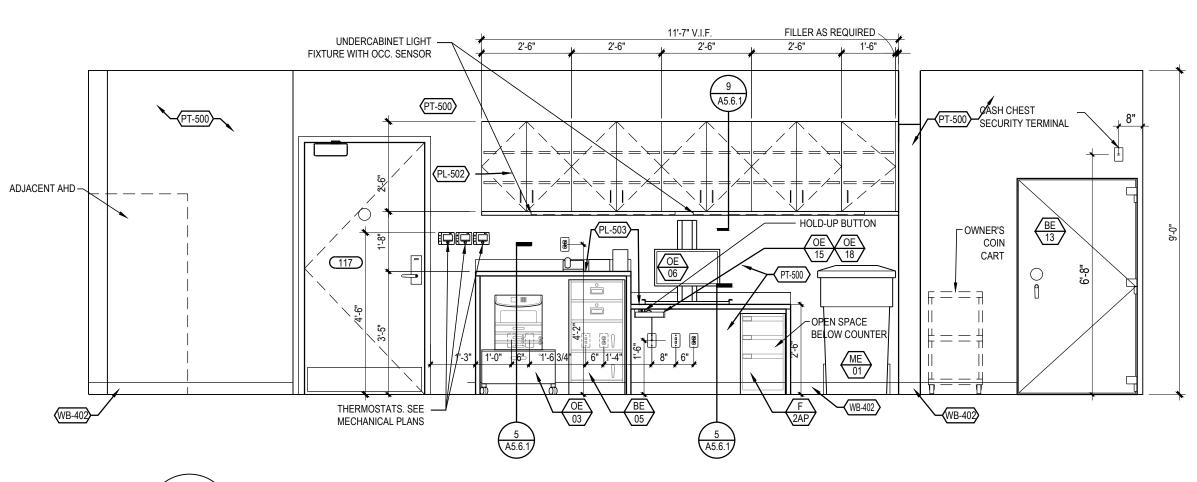
CHECKED BY: VERSION:



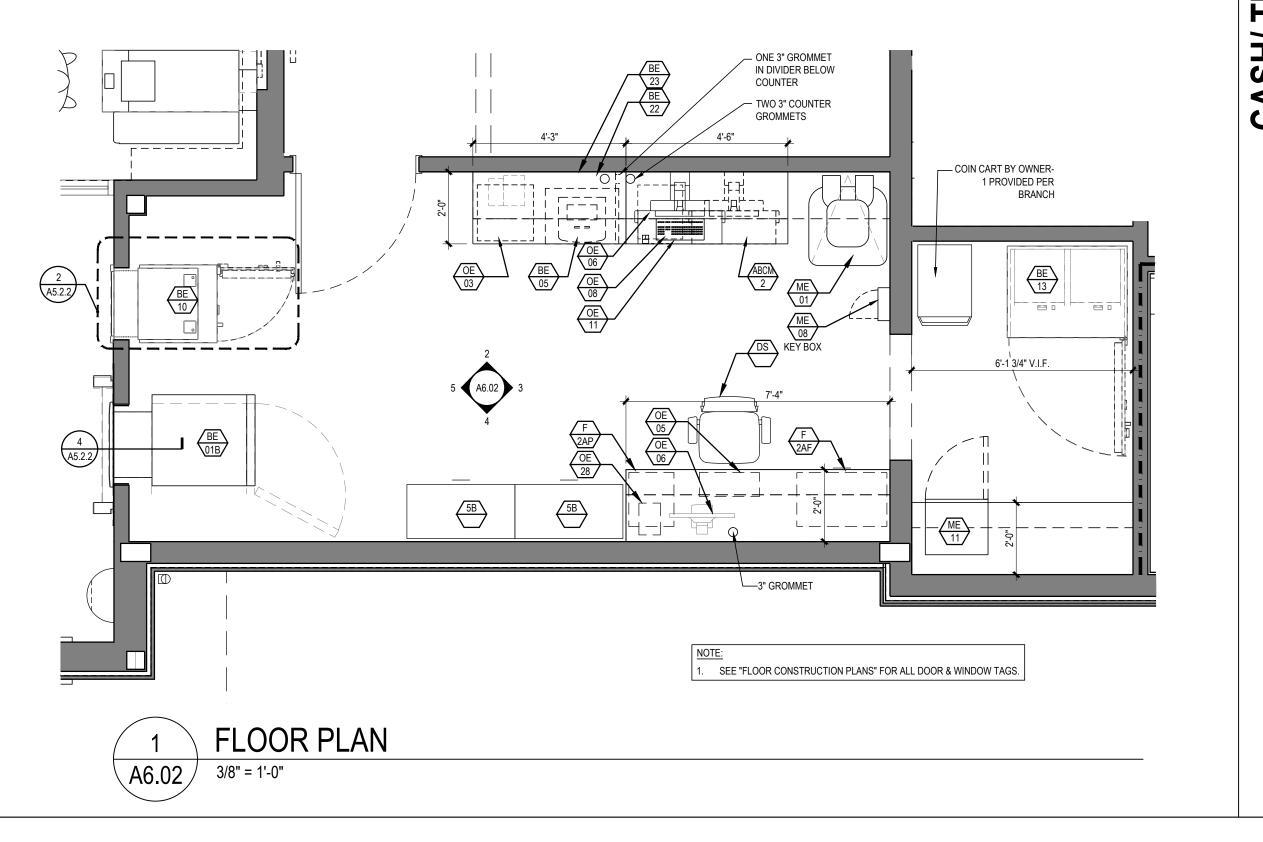














AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021

THANGE AND THANGSECTION OF THE STATE OF THE

CORESTATES

GROUP

6500 Chippewa Street Suite 200
St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD

ROBERT BRUCE

ROBERT BRUCE

January 08, 2021

NUMBER

A 7504

ARCHITECT: R. BRUCE LASURS

LICENISE BULLARED: 007504

ACTION

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

ESE 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.271

DATE: 2020

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: C.THEBEAU

CHECKED BY: B.LaSURS

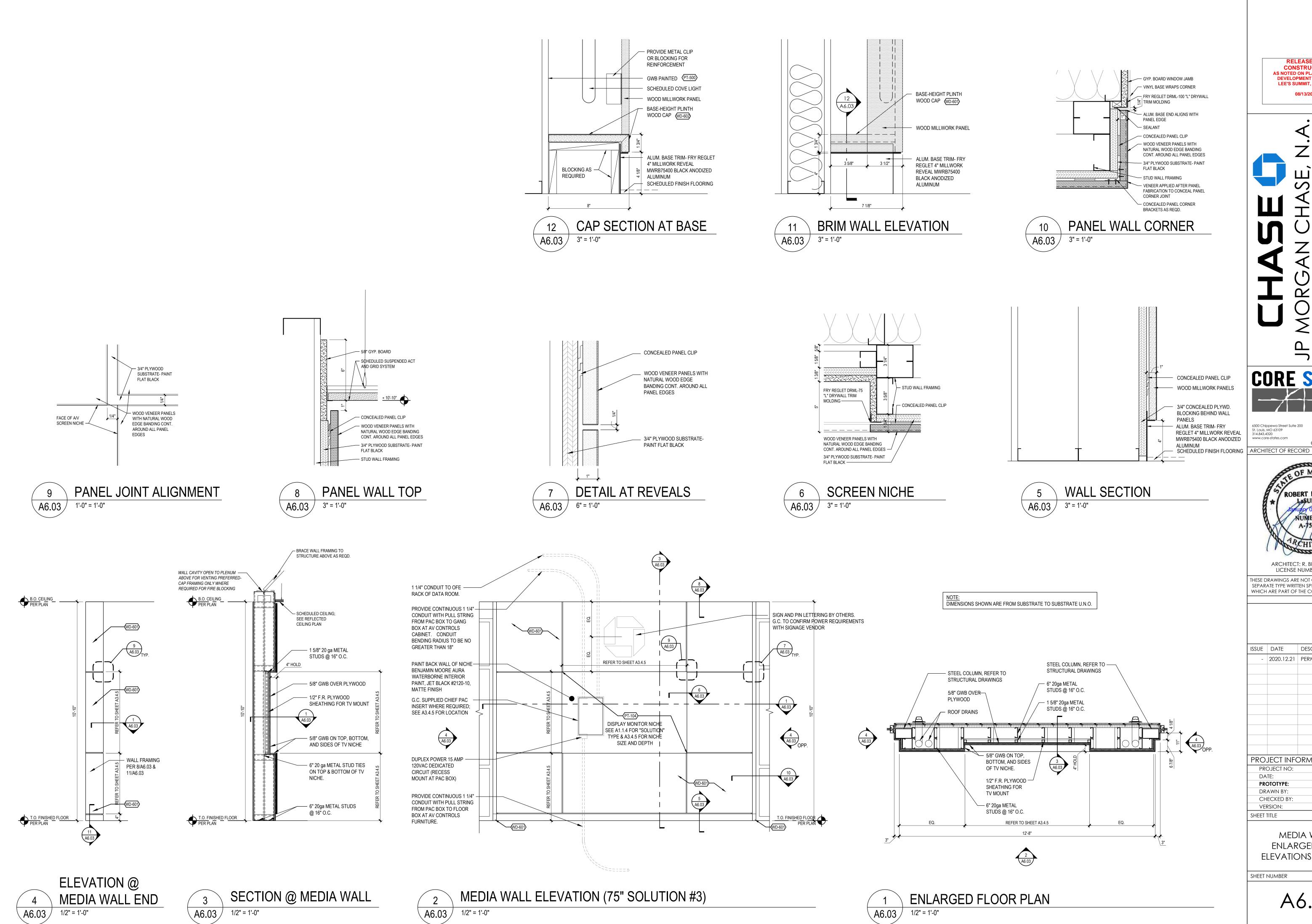
VERSION: SE_1.00

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

SHEET NUMBER

SHEET TITLE

A6.02



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021

GROUP CORESTATES, INC.

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908

ROBERT BRUCE

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

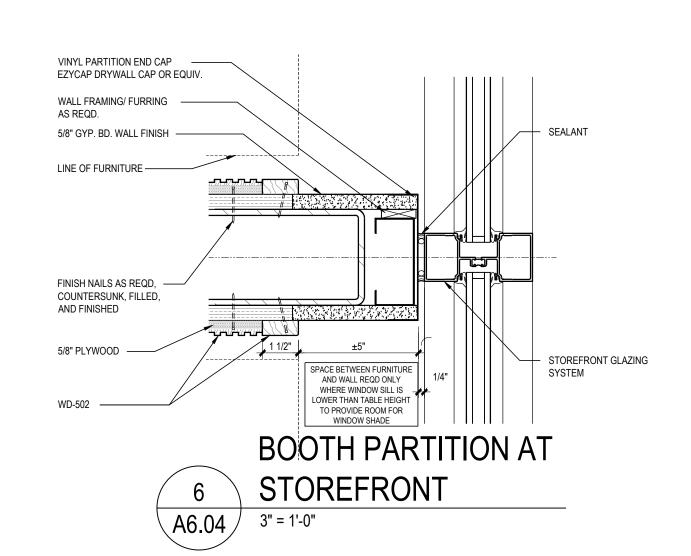
HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

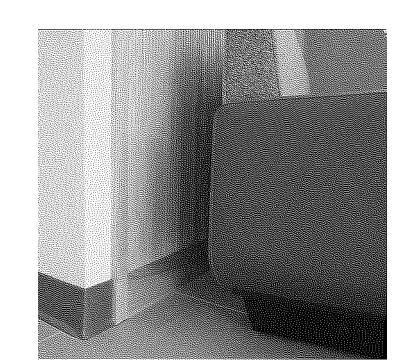
DESCRIPTION 2020.12.21 PERMIT SET

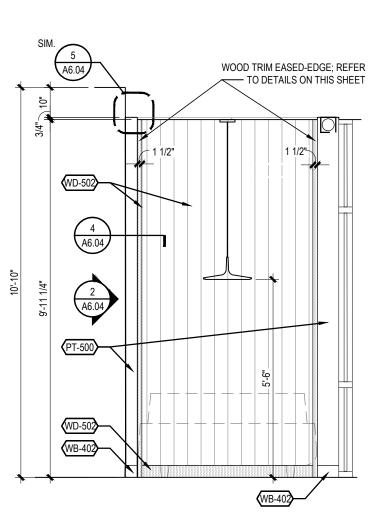
PROJECT INFORMATION JPM.27135.001 2020.12.21 C.THEBEAU B.LaSURS SE_1.00

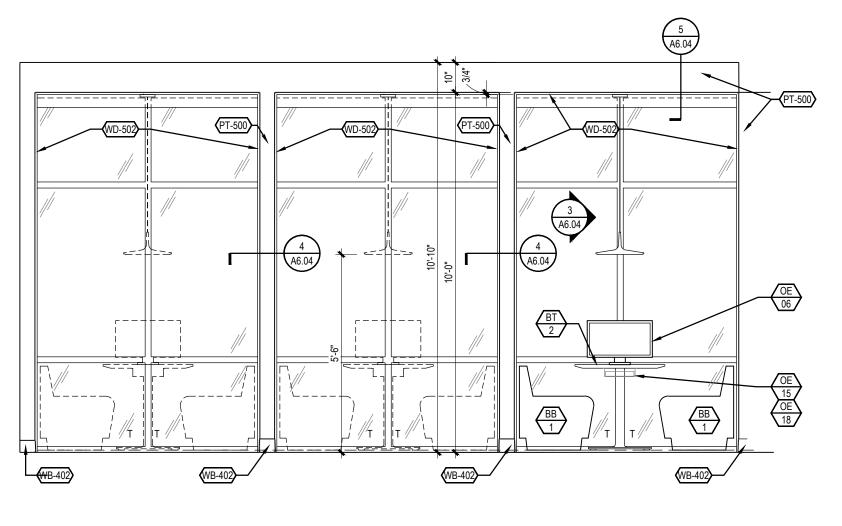
MEDIA WALL -ENLARGED PLAN, **ELEVATIONS & DETAILS**

A6.03







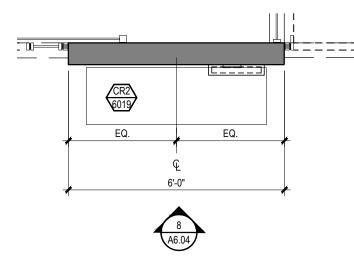




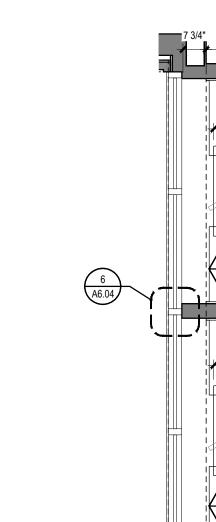
€ WALL & FURNITURE CLEAR WALL AREA FOR ARTWORK 1" OPEN CONDUIT TO -JUNCTION BOX ABOVE ACCESSIBLE CEILING 18"x18"x3/4" F.T. PLYWOOD BACKING BEHIND DRYWALL DIGITAL DISPLAY AND BRACKET BY CHASE VENDOR LEVITON #689-E OR EQ. RECESSED DUPLEX OUTLET 1 GANG BACK BOX BY G.C. -DATA JACKS W/ DEVICE BY CHASE VENDOR

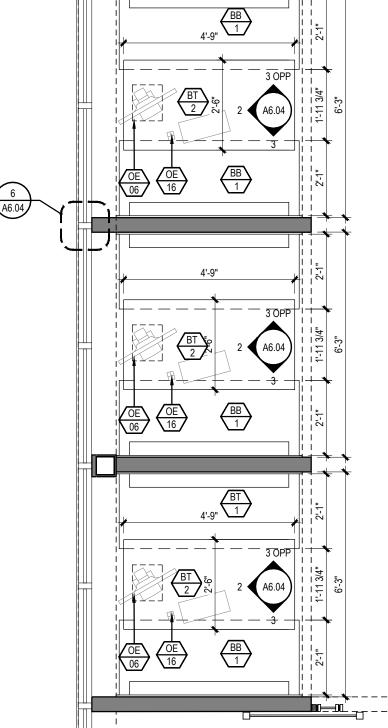
GC TO CONFIRM MOUNTING HEIGHTS WITH CHASE TELECOMMUNICATIONS DRAWINGS

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



ENLARGED COMMUNITY WALL PLAN





PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21 PROTOTYPE: C.THEBEAU B.LaSURS DRAWN BY: CHECKED BY: VERSION: SE_1.00 SHEET TITLE COMMUNITY WALL AND BOOTH: ENLARGED PLANS, ELEVATIONS, AND DETAILS SHEET NUMBER A6.04

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/13/2021

GROUP

CORESTATES, INC.

COA #: A-2014026908

6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

ARCHITECT OF RECORD

ROBERT BRUCE

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504

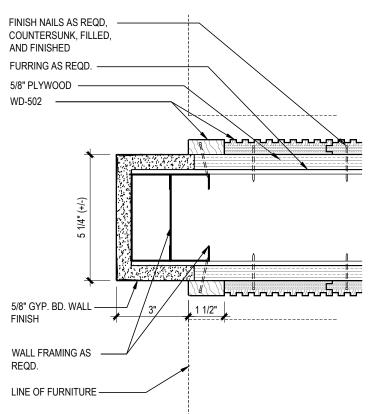
THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

DESCRIPTION

2020.12.21 PERMIT SET

BULKHEAD & SOFFIT FRAMING AS REQD. -FINISH NAILS AS REQD, COUNTERSUNK, FILLED, AND FINISHED ----5/8" PLYWOOD — - WD-502, 1 1/2 x 1 EASED-EDGE





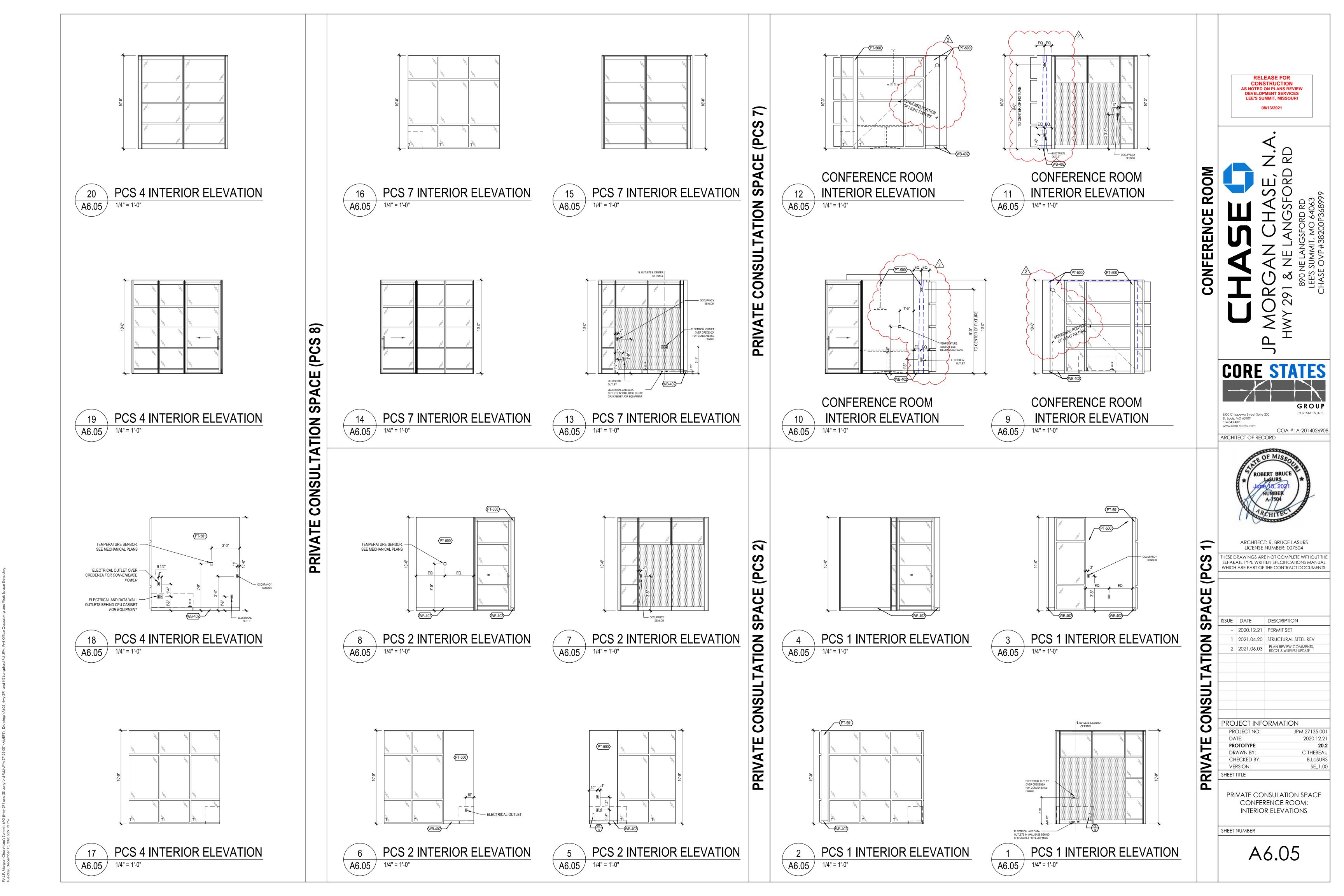


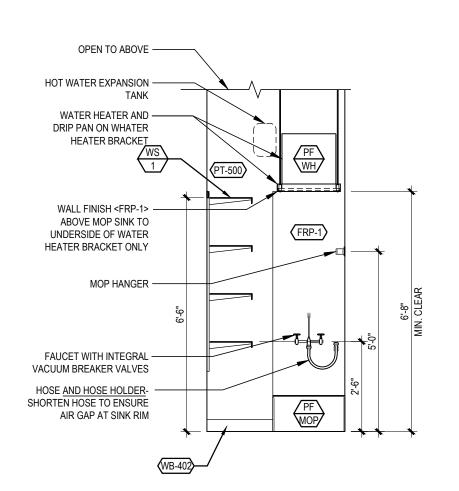


TYPICAL BOOTH ELEVATION A6.04 3/8" = 1'-0"

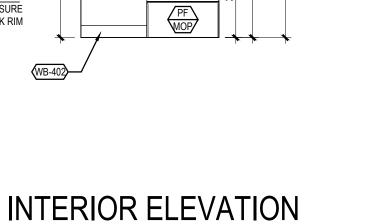
FINISH NAILS AS REQD, COUNTERSUNK, FILLED,

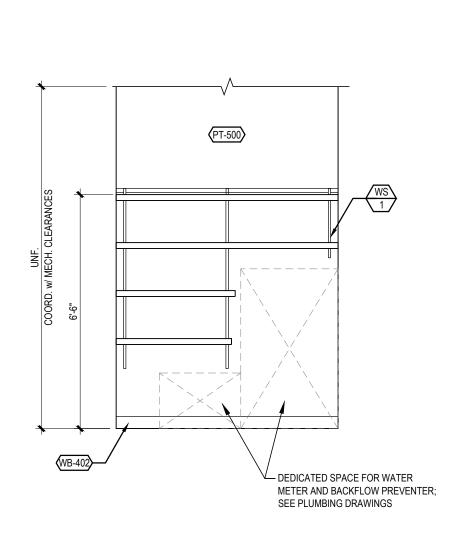
BOOTH SEAT WALL ELEVATION A6.04 3/8" = 1'-0"



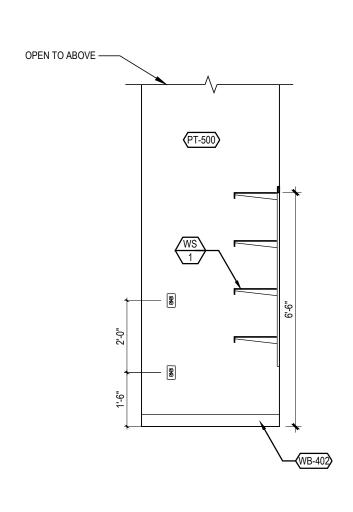


A6.07 3/8" = 1'-0"

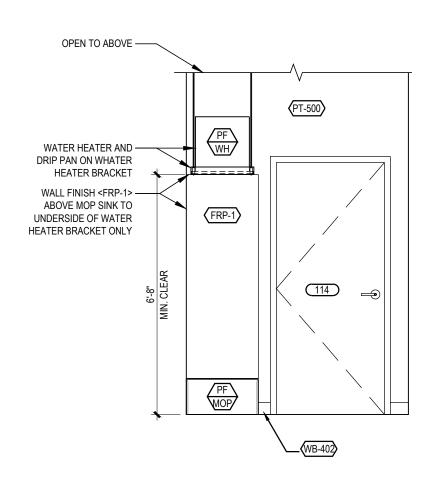




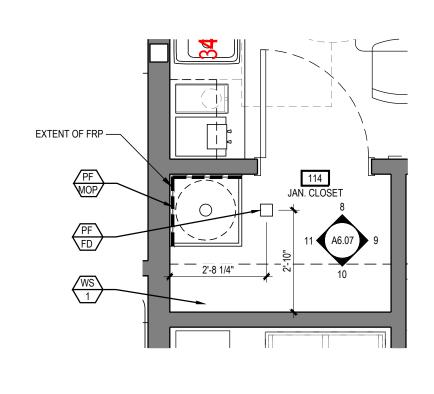






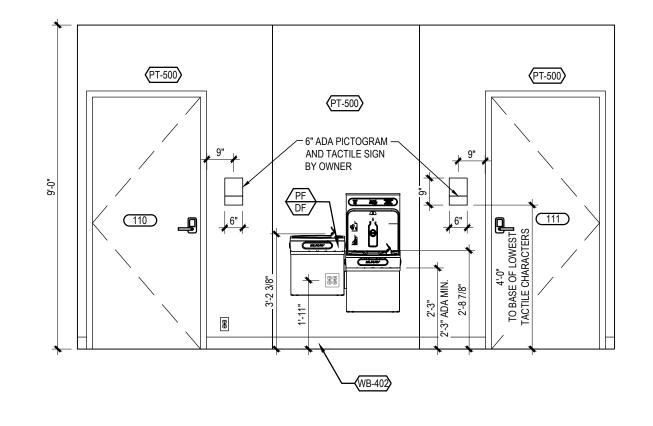




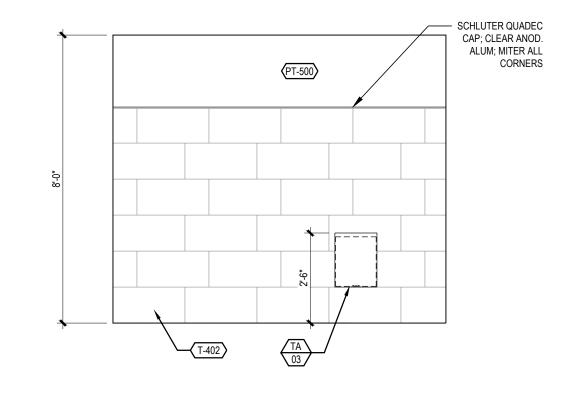


1. SEE "FLOOR CONSTRUCTION PLANS" FOR ALL DOOR & WINDOW TAGS.

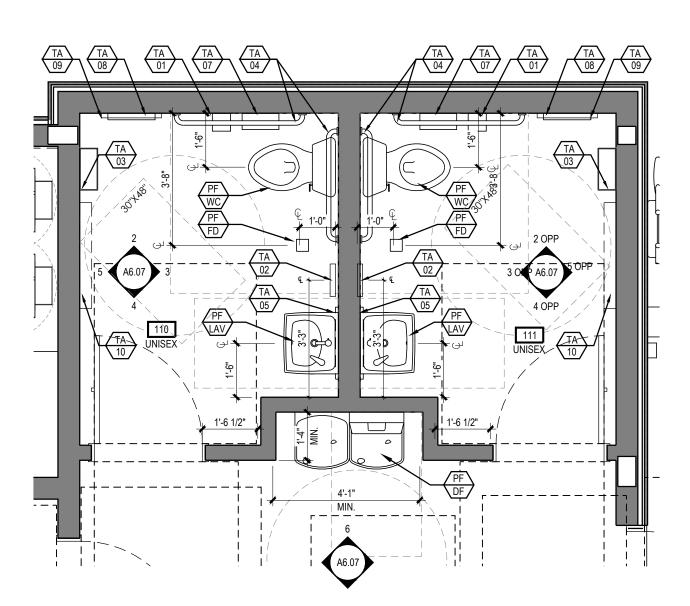


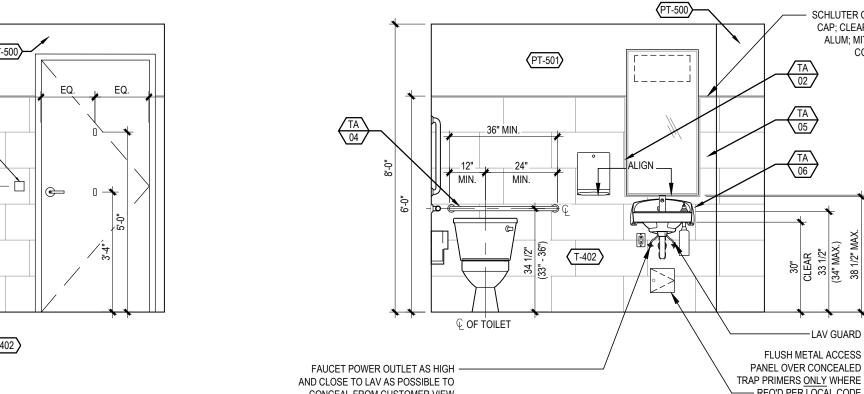










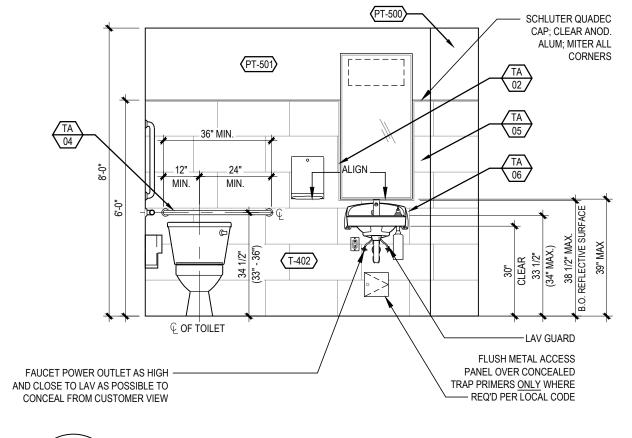




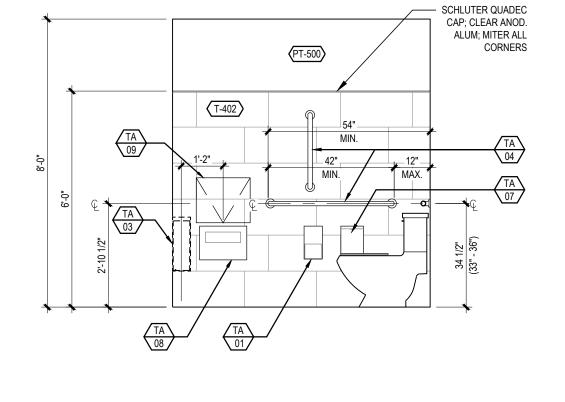
ALUM; MITER ALL CORNERS

TA 05

OCCUPANCY SENSOR. SEE MECHANICAL



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







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

CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021

OSE

JANITO

GROUP 6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD



ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504 HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

STROOMS DESCRIPTION 2020.12.21 PERMIT SET

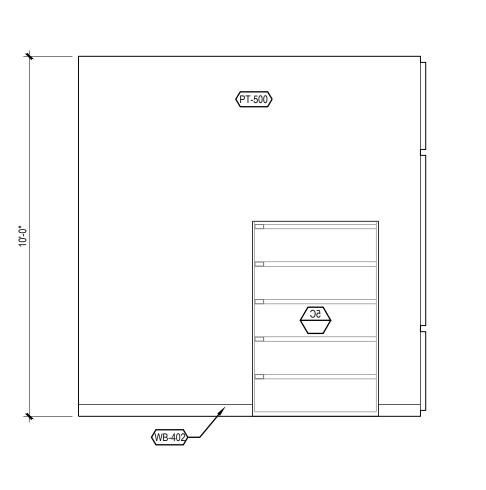
PROJECT INFORMATION

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

RESTROOM AND JANITOR: ENLARGED PLANS AND INTERIOR ELEVATIONS

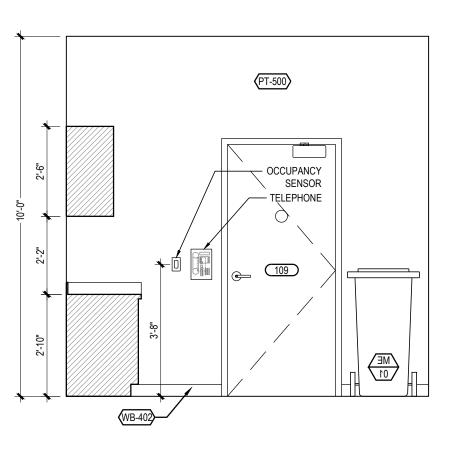
A6.07

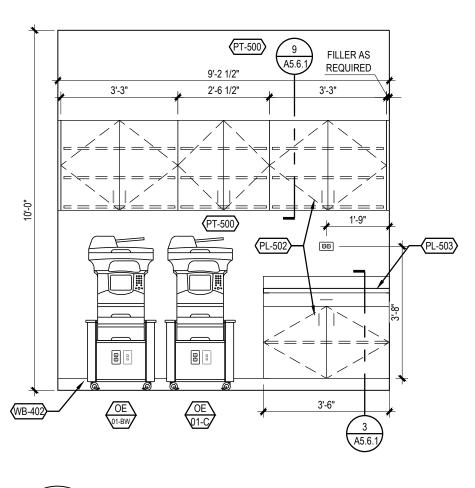
SHEET NUMBER

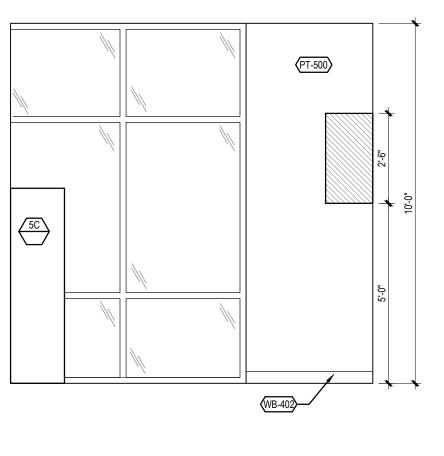


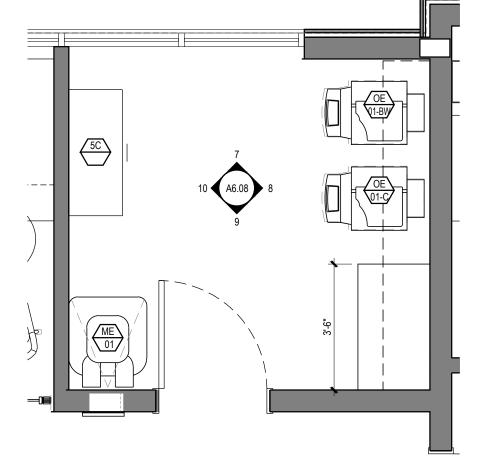
INTERIOR ELEVATION

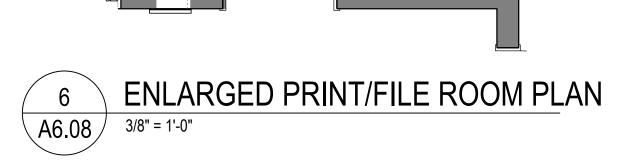
A6.08 3/8" = 1'-0"

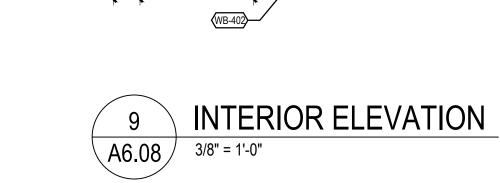


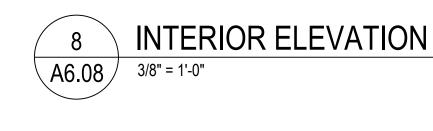












OCCUPANCY SENSOR

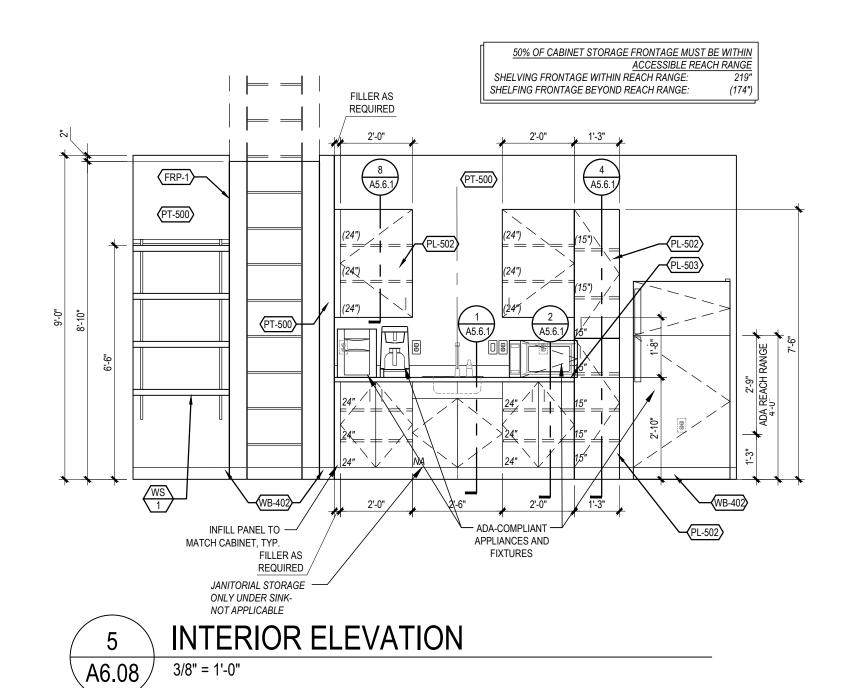
TEMPERATURE SENSOR. -

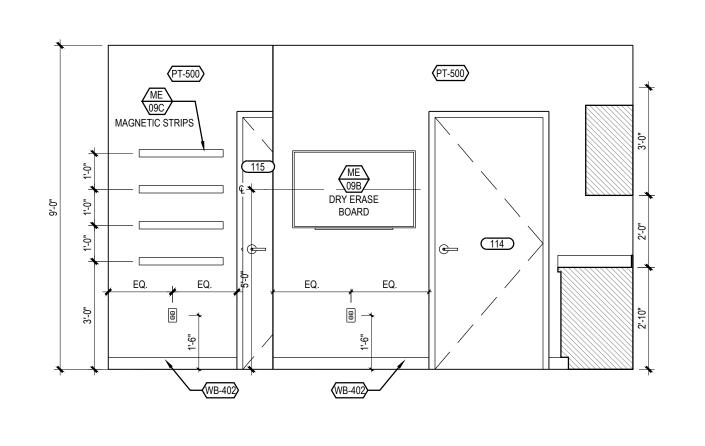
HUMIDISTAT. SEE

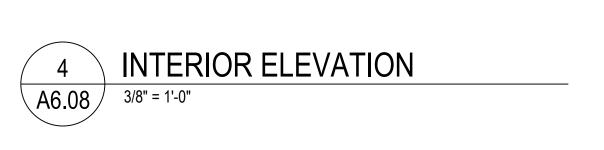
MECHANICAL PLANS.

SEE MECHANICAL PLANS.





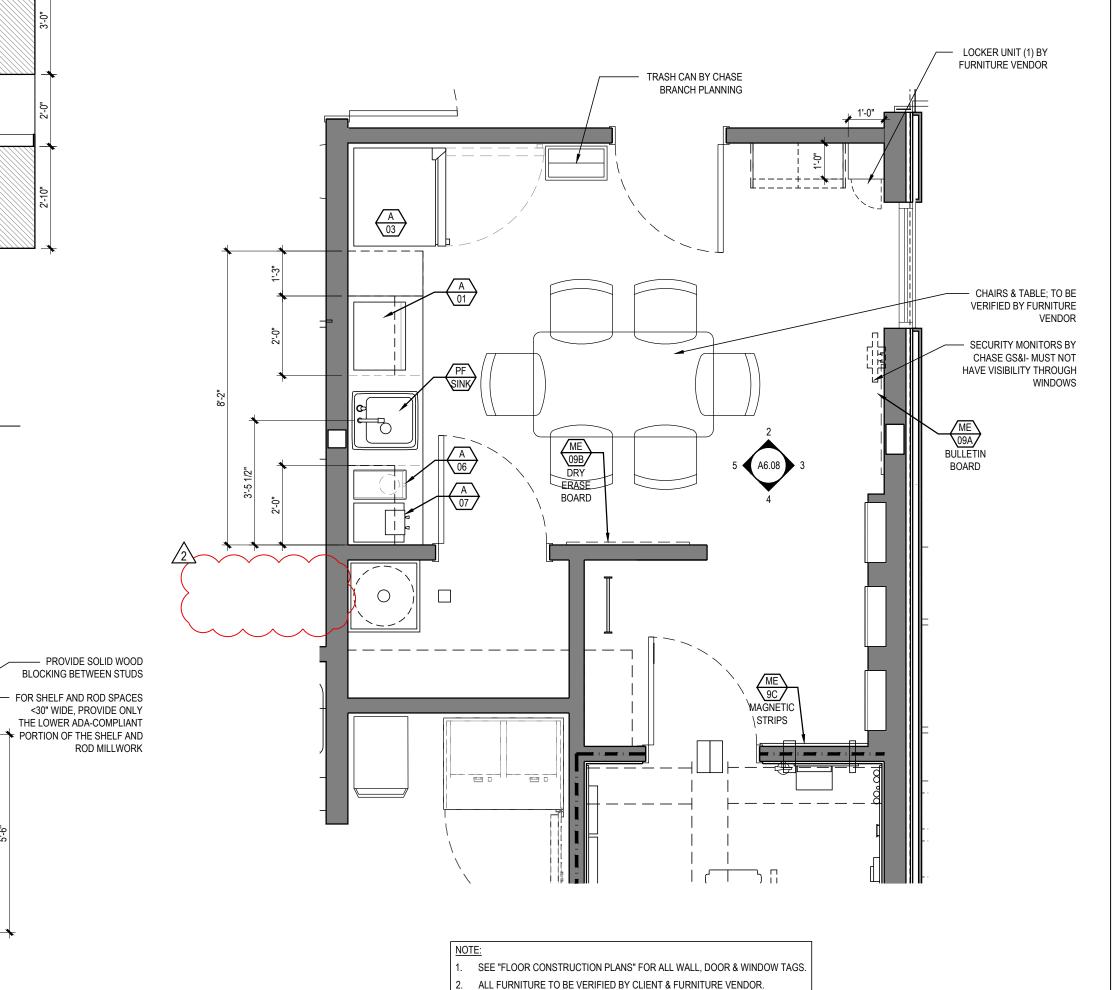


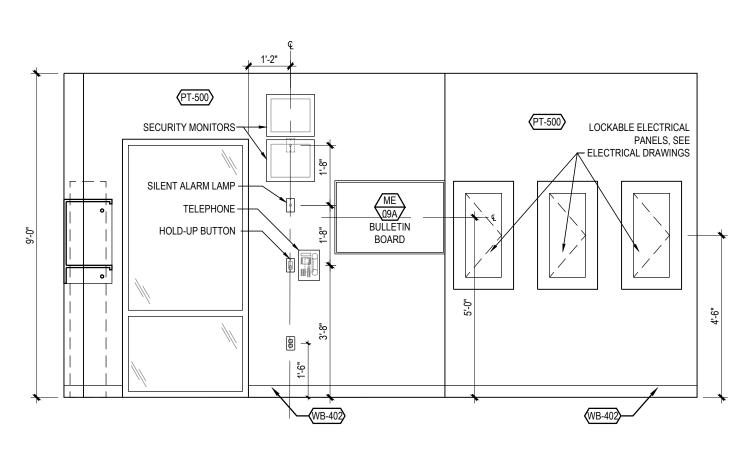


113

TRASH CAN BY CHASE

BRANCH PLANNING











RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

JP MORGAN CHASE, N.A.
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
890 NE LANGSFORD RD

CORESTATES

4500 Chippewa Street Suite 200
St. Louis, MO 63109
314.843.4320
www.core-states.com

COA #: A-2014026908

ARCHITECT OF RECORD

ARCHITECT: R. BRUCE LASURS
LICENSE NUMBER: 007504

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE

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

SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: C.THEBEAU

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: C.THEBEAU

CHECKED BY: B.LaSURS

VERSION: SE_1.00

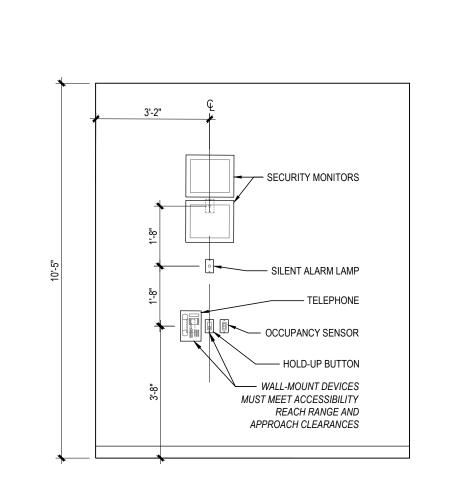
SHEET TITLE

LOUNGE, FILE, AND

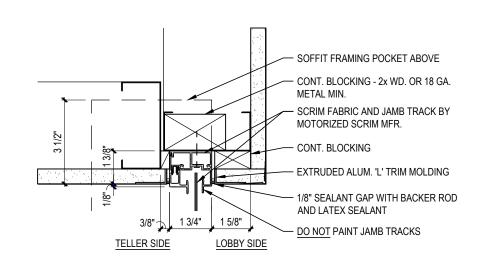
PRINTER ROOM:
ENLARGED PLANS AND
INTERIOR ELEVATIONS

SHEET NUMBER

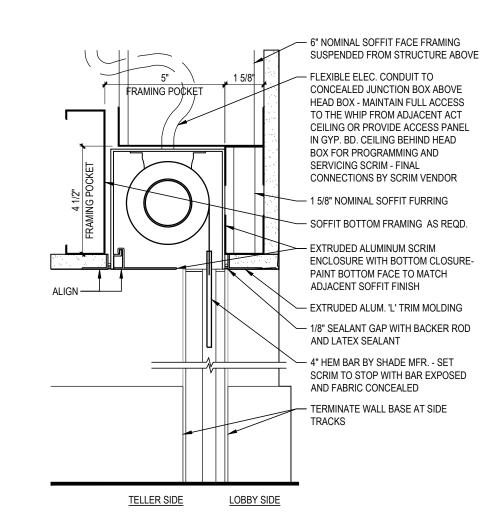
A6.08



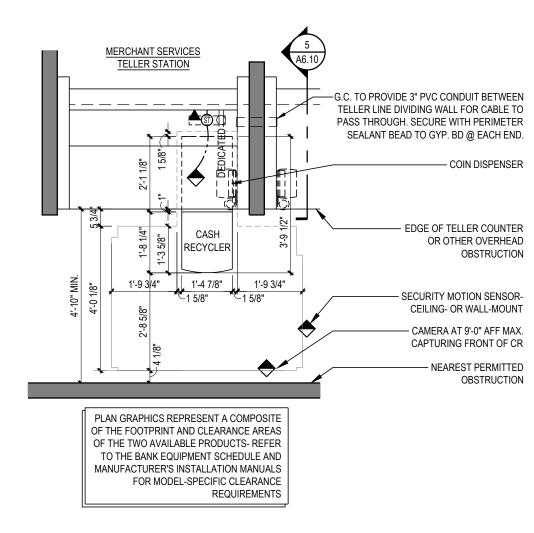
INTERIOR ELEVATION -HALLWAY



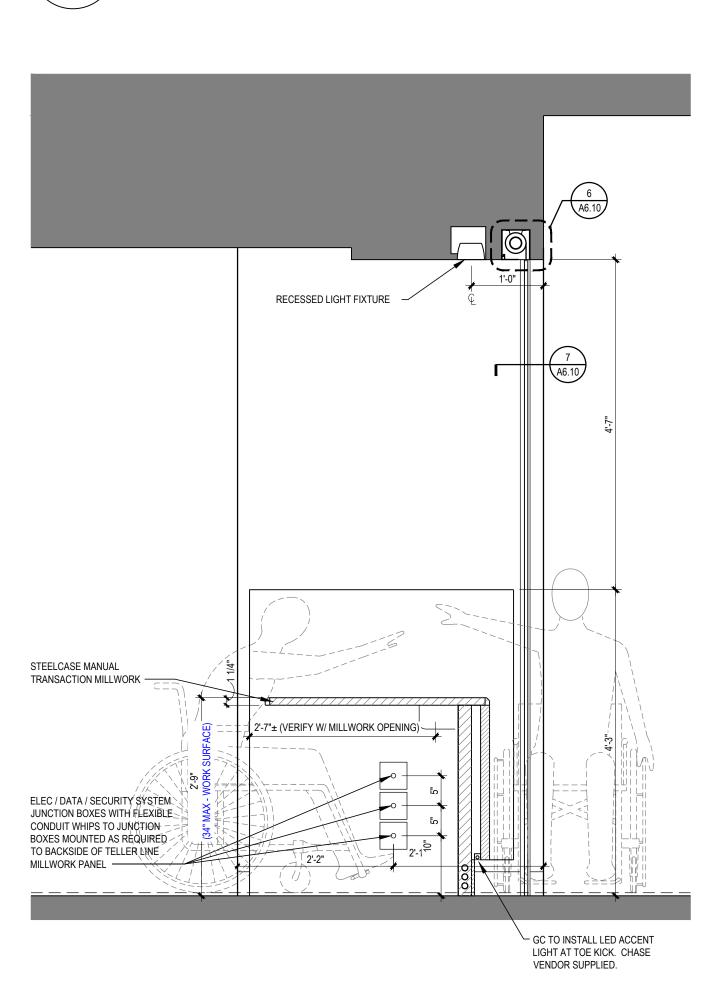
SCRIM JAMB A6.10 3" = 1'-0"



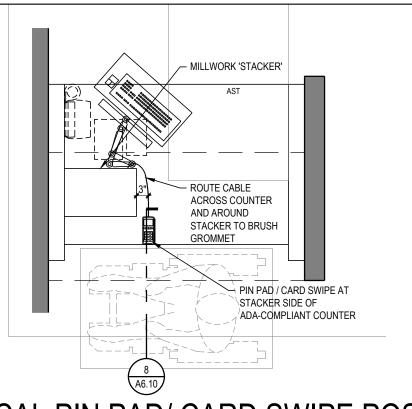
SCRIM HEAD



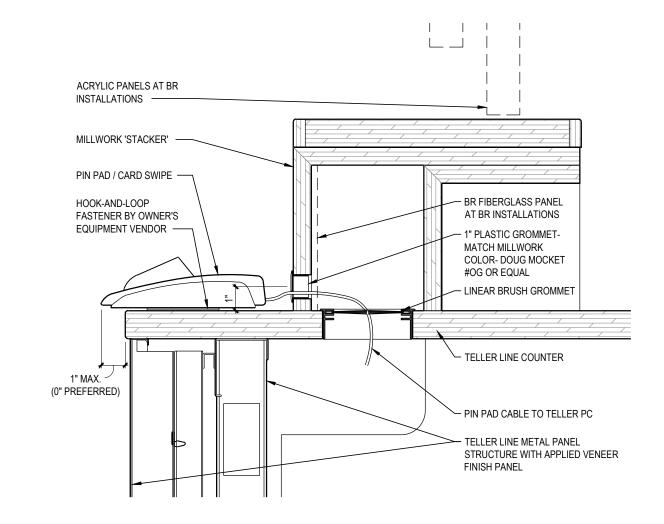
CASH RECYCLER -CLEARANCES AND CONNECTIONS A6.10



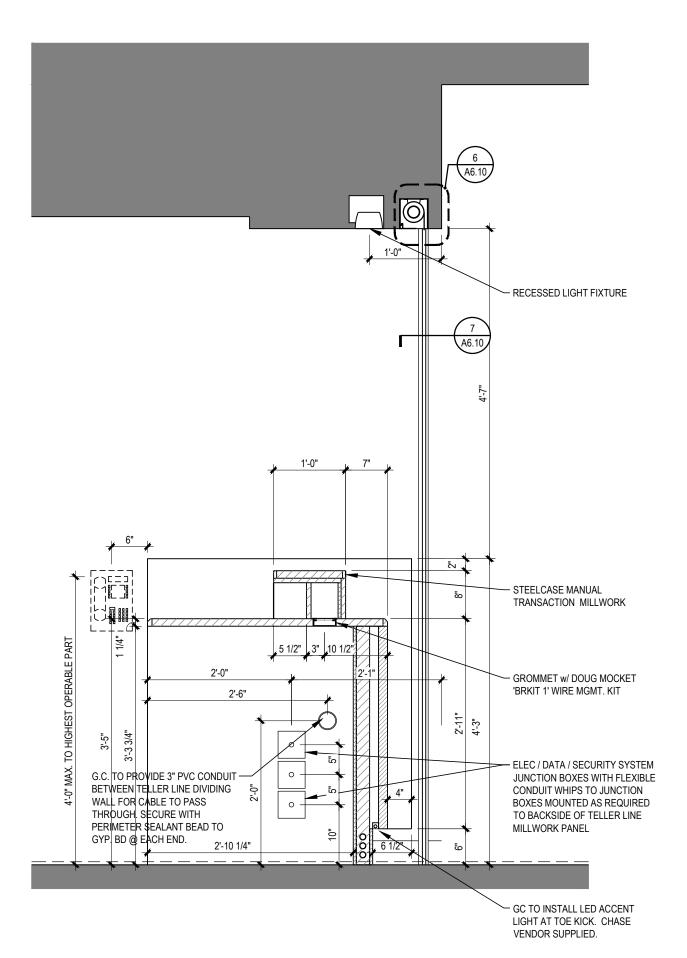
SECTION @ ACCESSIBLE TELLER



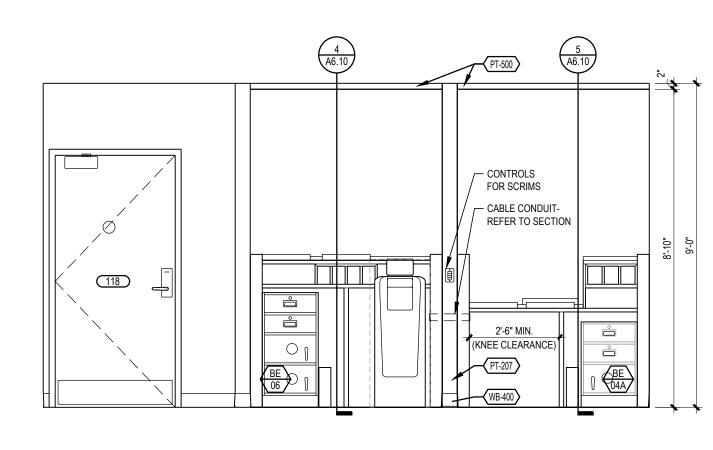
TYPICAL PIN PAD/ CARD SWIPE POSITON



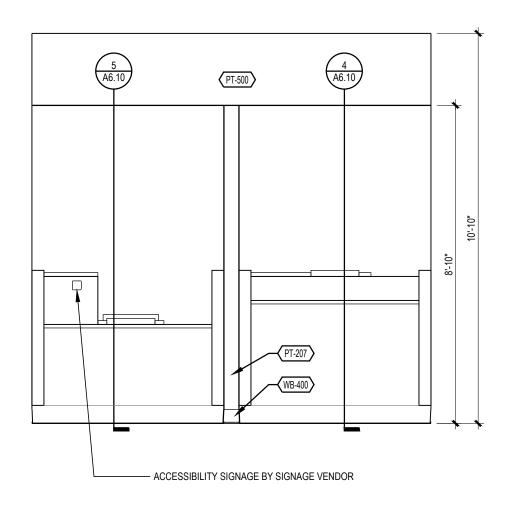
PIN PAD/ CARD SWIPE MOUNTING DETAIL



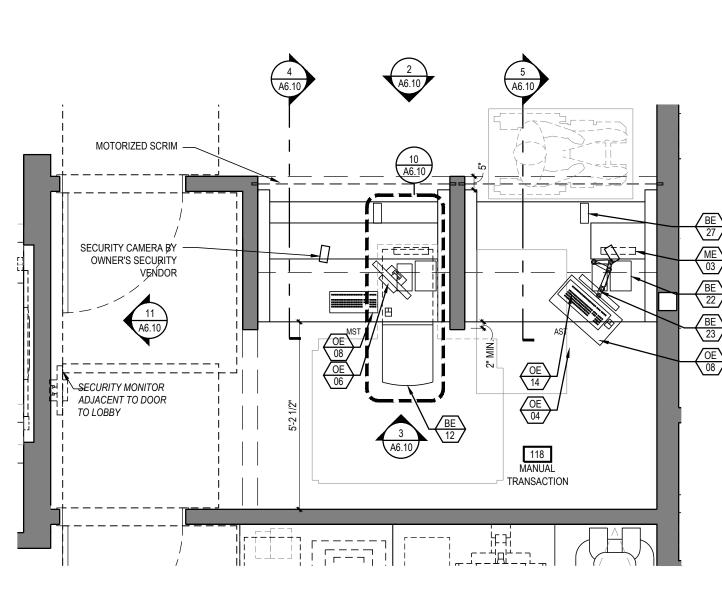
SECTION @ STANDARD TELLER



INTERIOR ELEVATION - EMPLOYEE SIDE



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



ENLARGED TELLER PLAN

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

GROUP 6500 Chippewa Street Suite 200 St. Louis, MO 63109 314.843.4320

COA #: A-2014026908 ARCHITECT OF RECORD ROBERT BRUCE LaSURS

ARCHITECT: R. BRUCE LASURS LICENSE NUMBER: 007504 HESE 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 2020.12.21 PROTOTYPE: C.THEBEAU DRAWN BY: B.LaSURS CHECKED BY: VERSION: SE_1.00 SHEET TITLE

MANUAL TRANSACTION: ENLARGED PLAN, INTERIOR ELEVATIONS, AND DETAILS

SHEET NUMBER

A6.10

- 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
- 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.
- 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.

GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE 1. RISK CATEGORY

DO NOT SCALE OFF DRAWINGS.

1.	RISK CATEGORY	= 11
2.	MINIMUM FIRST FLOOR LIVE LOADS: A. UNIFORM LIVE LOAD B. CONCENTRATED LIVE LOAD C. IMPACT LOAD D. LIVE LOAD REDUCTION	= 100 PSF = 2000 LB = N/A = N/A
3.	ROOF DEAD LOAD	= 25 PSF
4.	MINIMUM ROOF LIVE LOAD	= 20 PSF
5.	ROOF SNOW DATA: A. SNOW IMPORTANCE FACTOR, IS B. GROUND SNOW LOAD, Pg C. FLAT ROOF SNOW LOAD, Pf D. SNOW EXPOSURE FACTOR, Ce E. THERMAL FACTOR, Ct F. DRIFT LOAD DATA INDICATED ON ROOF FRAMING PLAN	= 1.00 = 20 PSF = 20 PSF = 1.0 = 1.0
6.	WIND DESIGN DATA: A. WIND IMPORTANCE FACTOR, IW B. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vultinomial Design Wind Speed, Vasd C. WIND EXPOSURE CATEGORY D. INTERNAL PRESSURE COEFFICIENTS E. WIND DESIGN PRESSURES PER ASCE 7-10	= 1.0 = 110 MPH = 85 MPH = B = ±0.18
7.	SEISMIC DESIGN DATA: A. SEISMIC IMPORTANCE FACTOR, IE B. MAPPED SPECTRAL RESPONSE COEFFICIENTS	= 1.00
	Ss	= 0.100

- = 0.068SITE CLASS = C DESIGN SPECTRAL RESPONSE COEFFICIENTS = 0.087 SDS = 0.068SEISMIC DESIGN CATEGORY BASIC SEISMIC FORCE RESISTANCE SYSTEMS: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R = 3.0)
- DESIGN BASE SHEAR, V = 4.8 KIPS SEISMIC RESPONSE COEFFICIENTS, Cs = 0.025 PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- 8. FOUNDATION DESIGN DATA ALLOWABLE BEARING PRESSURE = 2300 PSF COLS., 1900 PSF STRIP FTG.MINIMUM FROST DEPTH
- FLOOD DESIGN DATA: 10. SPECIAL LOADS:

FOUNDATIONS AND SLAB-ON-GRADE

- 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. 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.
- ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST ANY FILL REQUIRED BELOW SLABS-ON-GRADE OR FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE 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. 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 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. VERIFY THE USE AND EXTENT OF PERIMETER INSULATION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO
- THE INSTALLATION OF FOUNDATIONS. INSTALL PERIMETER INSULATION AS REQUIRED. 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.

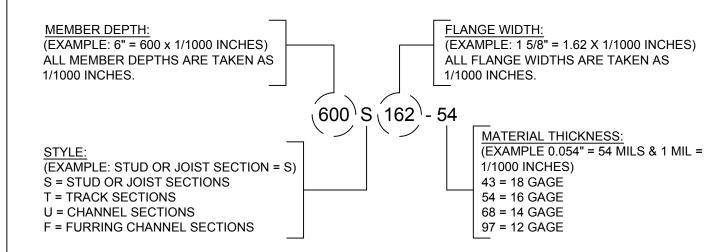
CONCRETE AND REINFORCING STEEL

- 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). ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A 28-DAY
- COMPRESSIVE STRENGTH AS NOTED IN THE TABLE BELOW. THE SLUMP OF ALL CONCRETE SHALL BE 4" ±1".
- ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED PER ACI-318, LATEST EDITION, BASED ON
- FREEZE-THAW EXPOSURE SEVERITY AND AGGREGATE SIZE.
- MAXIMUM NOMINAL COURSE AGGREGATE SIZE SHALL BE 3/4" TYPICAL UNLESS NOTED OTHERWISE. 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.
- 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.
- CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- CONCRETE REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- 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
- ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL
- 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".
- 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.

- 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
- 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.
- 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.
- 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

- 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. 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 KŚI) U.N.O
FRAMING BOLTS	ASTM A325 OR A490
SHEAR STUDS	ASTM A108
WELDING ELECTRODES	E70XX

- 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).
- INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". 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. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E70XX U.N.O.
- 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. 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
- 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

- I. 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
- 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
- **FQUIPMENT** 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 . 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.

- 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%:
- SOUTHERN PINE NO. 1.
- DOUGLAS FIR-LARCH NO. 1. 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 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 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 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**

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).

2-20d AT ENDS AND AT EACH

SPLICE)

- 2. MINIMUM NET COMPRESSIVE STRENGTH OF NORMAL WEIGHT CMU BLOCK ASSEMBLY SHALL BE 1900 P.S.I.(fm). 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
- 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 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.). 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

SHOP DRAWING SUBMITTALS

- 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
- 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
- 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 STRUCTURAL STEEL
- 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

14. GENERAL CONTRACTOR SHALL SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE

15. SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT FROM THE

- 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.
- 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.

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:

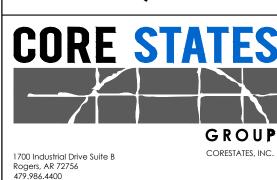
A. OPEN WEB STEEL JOIST

LIGHT GAGE METAL FRAMING

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

08/13/2021

 \square



ENGINEER OF RECORD DAVID BALMA NUMBER PE-2015003007

HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

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

PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21 **PROTOTYPE** DRAWN BY: CHECKED BY: **E.SCALGIONE**

GENERAL

SHEET NUMBER

VERSION:

SHEET TITLE

STRUCTURAL SPECIAL INSPECTIONS

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF THE 2018 INTERNATIONAL BUILDING CODE.
- THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
 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
- 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.

APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY,

- 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	
Υ	1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		Х	1705.6	
Υ	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		Х	1705.6	
Υ	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х	1705.6	
Υ	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	Х		1705.6	
Υ	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х	1705.6	

B. CONCRETE CONSTRUCTION - SECTION 1705.3 PER TABLE 1705.3

	SPECIAL INSPECTION AND VER	FICATION OF	CONCRETE C	ONSTRUCTIO	N
ODEOLA		FREQUENCY C	F INSPECTION	REFERENCE FOR CRITERIA	
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
Υ	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;		х		
-	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16		Х		AWS D1.4 ACI 318: 26.6.4
-	c. INSPECT OTHERS WELDS	x			
Υ	3. INSPECTION OF ANCHORS CAST IN CONCRETE		Х		ACI318: 17.8.2
Υ	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.	х			ACI 318: 17.8.2.4
Υ	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.		Х		ACI 318: 17.8.2
Υ	5. VERIFYING USE OF REQUIRED DESIGN MIX.		Х	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	Х		1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12
Υ	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	х		1908.6, 1908.7, 1908.8	ACI 318: 26.5
Y	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х	1908.9	ACI 318: 26.5.3-26.5.5
N	9. INSPECTION OF PRESTRESSED CONCRETE:				
-	a. APPLICATION OF PRESTRESSING FORCES.	Х			101010 0010
-	b. GROUTING OF BONDED PRESTRESSING TENDONS	Х			ACI 318: 26.10
N	10. ERECTION OF PRECAST (TILT UP PANELS) CONCRETE MEMBERS.		Х		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.		Х		ACI 318: 26.11.2
Y	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х		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		PERIODICALLY DURING TASK LISTED	IRC:
N	1. HIGH-LOAD DIAPHRAGMS		X	1705.5.1
N	2. METAL-PLATE CONNECTED WOOD TRUSSES SPANNING > 60 FEET		Х	1705.5.2

D. WIND RESISTANCE - SECTION 1705.11

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.		Х	1705.11.1
N	2. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM	х		1705.11.1
N	3. COLD-FORMED STEEL WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM		х	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.		х	1705.11.2
N	5. ROOF CLADDING		х	1705.11.3
N	6. WALL CLADDING		Х	1705.11.3

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

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

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

	SPECIAL INSPECTION AND VERIFICATI	ON OF OTHE	ER STEEL CON	NSTRUCTION	ON
ODEOLAL		FREQUENCY	OF INSPECTION	REFEREN	NCE FOR CRITERIA
SPECIAL NSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED		IBC SECTION	REFERENCEI STANDARD
	PRIOR TO DEC	K PLACEMEI	NT		
Υ	1. VERIFY MATERIAL COMPLIANCE	x		1705.2.1	N5.4-1, AISC 360
Υ	2. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	х		1705.2.1	N5.4-1, AISC 360
	AFTER TO DEC	K PLACEME	NT		
Υ	1. VERIFY COMPLIANCE OF INSTALLATION AND DECK MATERIALS	x		1705.2.1	N5.4-1, AISC 360
Υ	2. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	х		1705.2.1	N5.4-1, AISC 360
	PRIOR TO	WELDING			
Υ	1. VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES		Х	1705.2.1	N5.4-1, AISC 360
Υ	2. MATERIAL IDENTIFICATION		Х	1705.2.1	N5.4-1, AISC 360
	DURING \	WELDING			
Υ	1. QUALIFIED WELDER		Х	1705.2.1	N5.4-1, AISC 360
Υ	2. CONTROL AND HANDLING OF WELDING CONSUMABLES		Х	1705.2.1	N5.4-2, AISC 360
Υ	3. ENVIRONMENTAL CONITIONS		Х	1705.2.1	N5.4-2, AISC 360
Υ	4. WPS FOLLOWED		Х	1705.2.1	N5.4-2, AISC 360
	AFTER V	VELDING			
Υ	1. SIZE, LENGTH AND LOCATION OF WELDS	x		1705.2.1	N5.4-3, AISC 360
Υ	3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	х		1705.2.1	N5.4-3, AISC 360
Υ	8. REPAIR ACTIVITIES	х		1705.2.1	N5.4-3, AISC 360
Υ	9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/NUMBER	х		1705.2.1	N5.4-3, AISC 360





JP MORGAN CHASE, NHWY 291 & NE LANGSFORD I 890 NE LANGSFORD RD I FF'S SUMMIT MO 64063



1700 Industrial Drive Suite B Rogers, AR 72756 479.986.4400 www.core-states.com

DAVID BALMA

NUMBER
PE-2015003007

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

STRUCTURAL SPECIAL INSPECTIONS

SHEET NUMBER

S_{0.1}

STRUCTURAL SPECIAL INSPECTIONS

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

	SPECIAL INSPECTION AND VERIFICATION	I ION OF COL	D-FORMED S	TEEL DEC	K
SPECIAL		FREQUENCY	OF INSPECTION	REFERENCE FOR CRITERIA	
INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
	PRIOR TO MECHA	NICAL FASTE	ENING		
Υ	1. VERIFY INSTRUCTIONS AVAILABLE		Х	1705.2.1	N5.4-1, AISC 360-16
Υ	2. PROPER TOOLS AVAILABLE		Х	1705.2.1	N5.4-1, AISC 360-16
Υ	3 PROPER STORAGE.		X	1705.2.1	N5.4-1, AISC 360-16
	DURING MECHAN	IICAL FASTE	NING		
Υ	1. FASTENERS ARE POSITIONED AND INSTALLED ACCORDING TO MANUF. INSTRUCTIONS	х		1705.2.1	N5.4-1, AISC 360-16
	AFTER MECHANI	CAL FASTEN	IING		
Υ	1. SPACING, TYPE AND INSTALLATION OF SUPPORT, SIDELAP AND PERIMETER FASTENERS	Х		1705.2.1	N5.4-1, AISC 360-16
Υ	8. REPAIR ACTIVITIES	Х		1705.2.1	N5.4-3, AISC 360-16
Υ	9. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	х		1705.2.1	N5.4-3, AISC 360-16

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

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

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

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

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

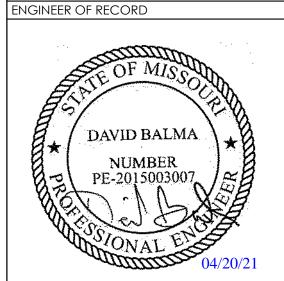
	MINIM	UM TESTS				
	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS ARTICLE 1.5B.1.b.3 FOR S			SITE IN ACCO	ORDANCE WITH SPECIF	FICATION
VERIFICA	ATION OF f_M AND f_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PR	IOR TO CONSTE	RUCTION, EXCEP	T WHERE SP	ECIFICALLY EXEMPTED	D BY THIS CODE
	MINIMUM INS	PECTION				
SPECIAL		FREQUENCY OF INSPECTION			REFERENCE FOR CRI	TERIA
INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
Υ	1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		Х	1705.4		ART. 1.5
	2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING AF	RE IN COMPLIA	NCE:	1		
Υ	Y a. PROPORTIONS OF SITE-PREPARED MORTAR		Х	1705.4		ART. 2.1, 2.6A
Υ	b. CONSTRUCTION OF MORTAR JOINTS		Х			ART. 3.3B
N	c. GRADE AND SIZE OF PRE-STRESSING TENDONS AND ANCHORAGES		Х	1705.4		ART 2.4B, 2.4H
Υ	d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORAGES		Х	1705.4		ART. 3.4, 3.6A
N	e. PRE-STRESSING TECHNIQUE		Х	1705.4		ART. 3.6B
N	f. PROPERTIES OF THIN-BED MORTAR FOR ACC MASONRY		Х	1705.4		ART. 2.1C
	3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANC	E:				
Υ	a. GROUT SPACE		Х			ART. 3.2D, 3.2F
Υ	b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRE-STRESSING TENDONS AND ANCHORAGES		х	1705.4	SEC. 6.1	ART. 2.4, 3.4
Υ	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORAGES		х	1705.4	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A
Υ	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS		х	1705.4		ART. 2.6B, 2.4G.1.b
Υ	e. CONSTRUCTION OF MORTAR JOINTS		Х	1705.4		ART. 3.3B
	4. VERIFY DURING CONSTRUCTION:					
Υ	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 		Х	1705.4	SEC. 1.2.1(e), 6.1.4.3, 6.2.1	
N	c. WELDING OF REINFORCEMENT	х			SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
Υ	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))		Х	1705.4		ART. 1.8C, 1.8D
N	e. APPLICATION AND MEASUREMENT OF PRE-STRESSSING FORCE	Х		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		Х	1705.4		ART. 3.3B.9, 3.3F.1.b
Υ	5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		х	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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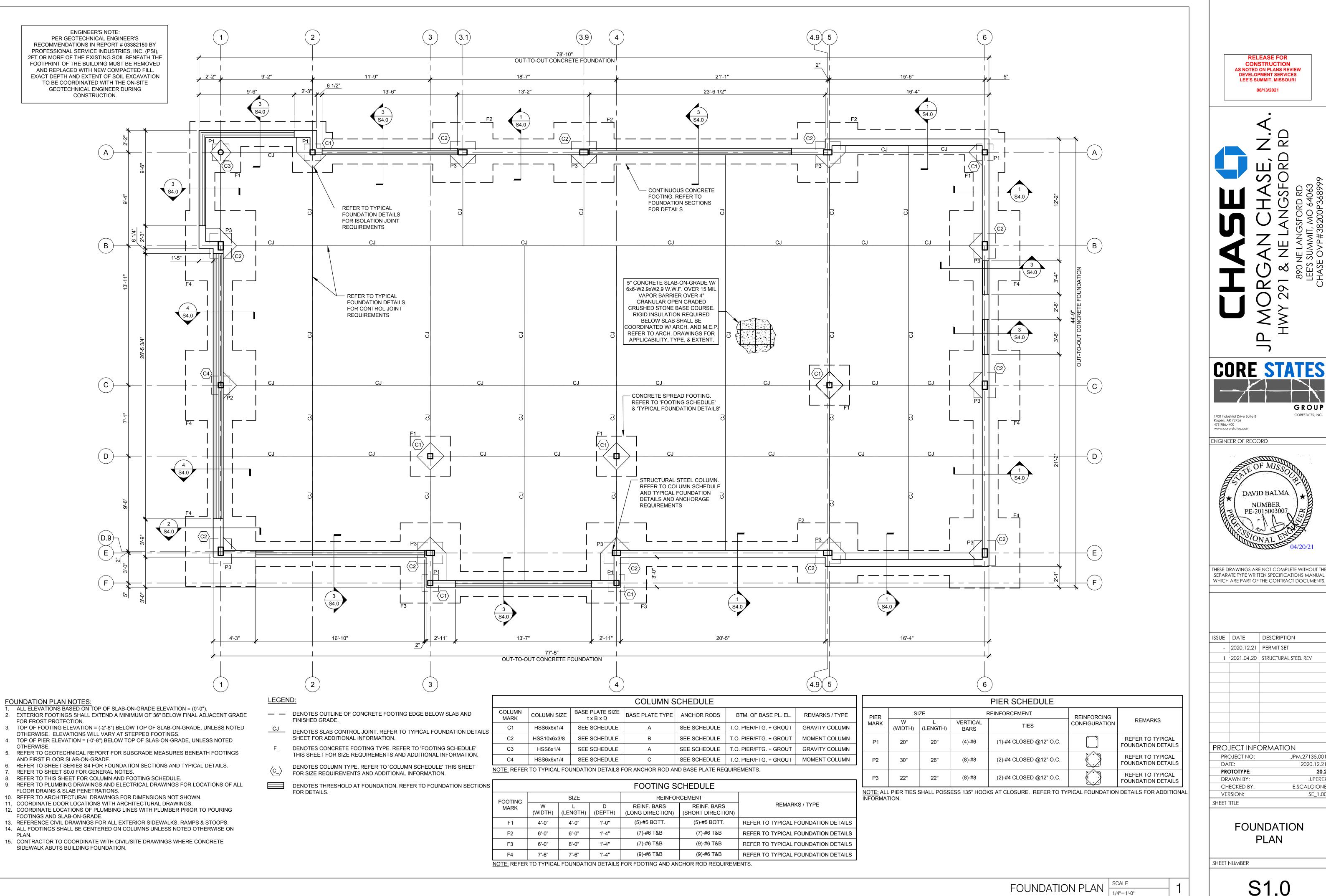
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-	2020.12.21	PERMIT SET
34	2021.04.20	STRUCTURAL STEEL REV

PROJECT INFO	DRMATION
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





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ENGINEER OF RECORD

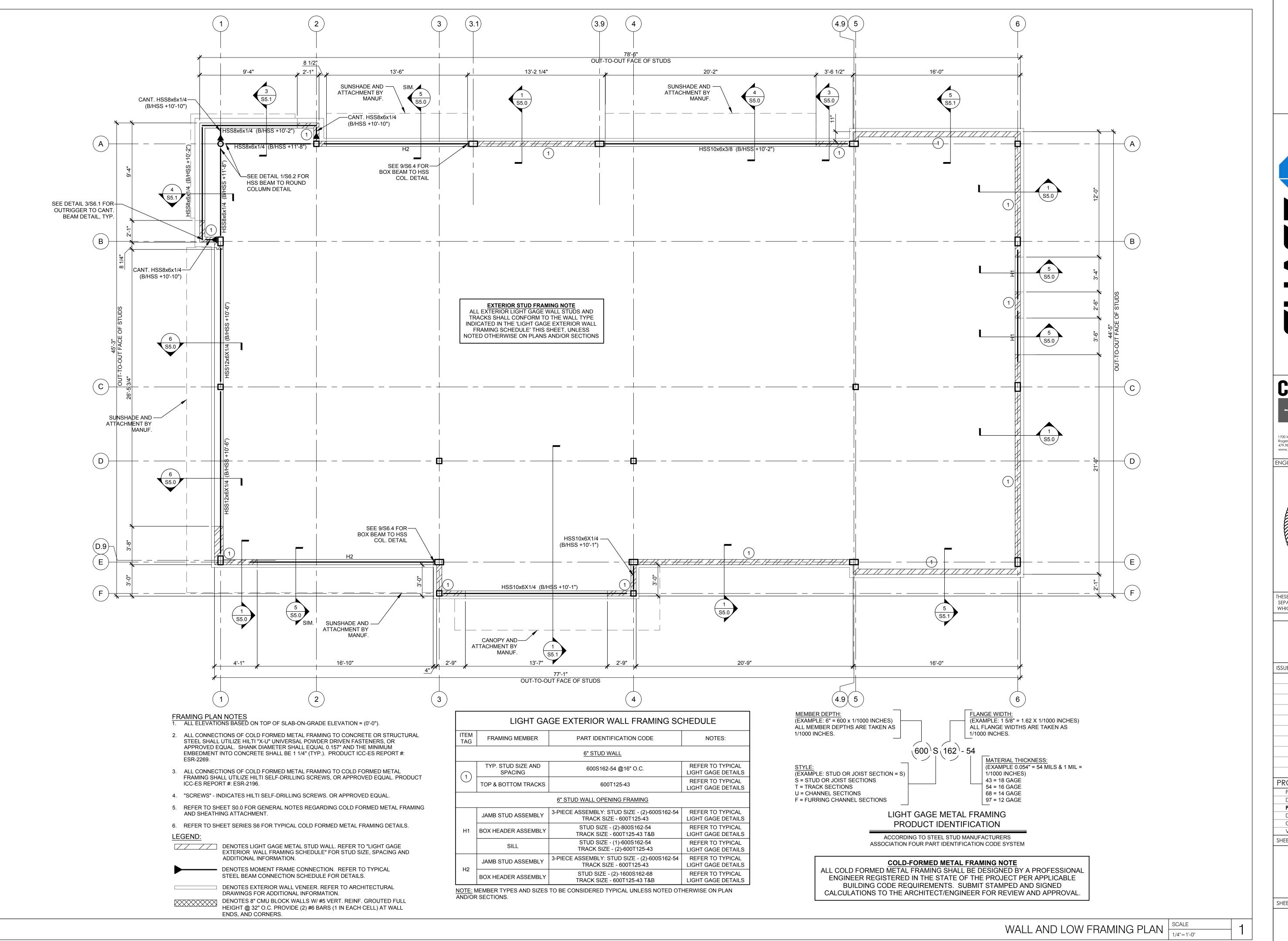
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ISSUE DATE DESCRIPTION - | 2020.12.21 | PERMIT SET 1 · 2021.04.20 · STRUCTURAL STEEL REV

PROJECT INFORMATION PROJECT NO: JPM.27135.001 2020.12.21 PROTOTYPE: DRAWN BY: J.PEREZ CHECKED BY: E.SCALGIONE

> **FOUNDATION** PLAN

SHEET NUMBER



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

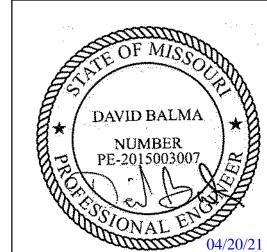
JP MORGAN CHASE, N.A HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD

CORESTATES

GROUP

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Rogers, AR 72756
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ENGINEER OF RECORD



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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
2	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

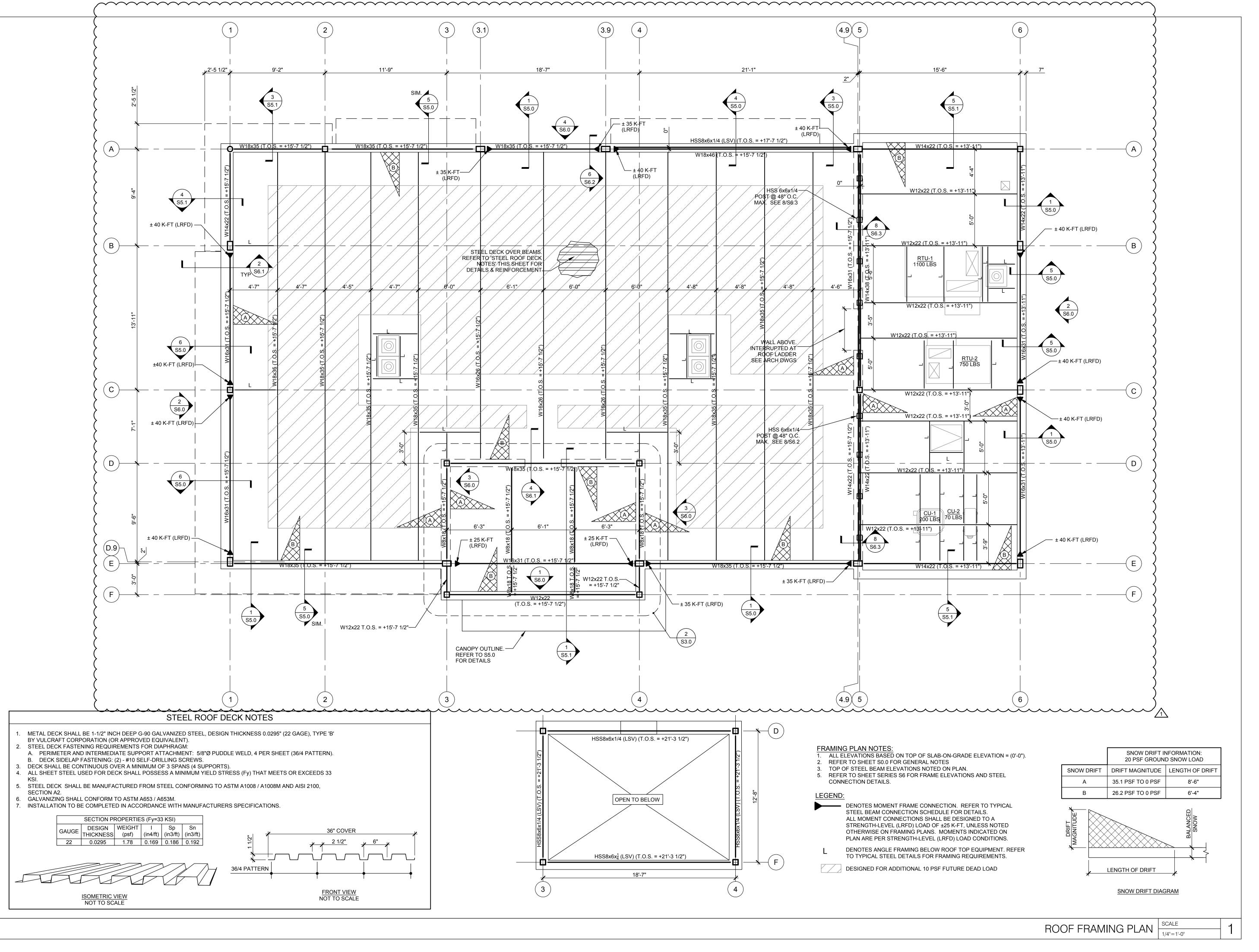
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SHEET TITLE

WALL AND LOW FRAMING PLAN

SHEET NUMBER

S2.0



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021

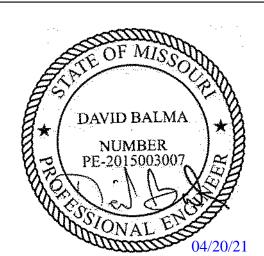
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CORE STATES

GROUP

1700 Industrial Drive Suite B
Rogers, AR 72756
479.986.4400

ENGINEER OF RECORD



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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

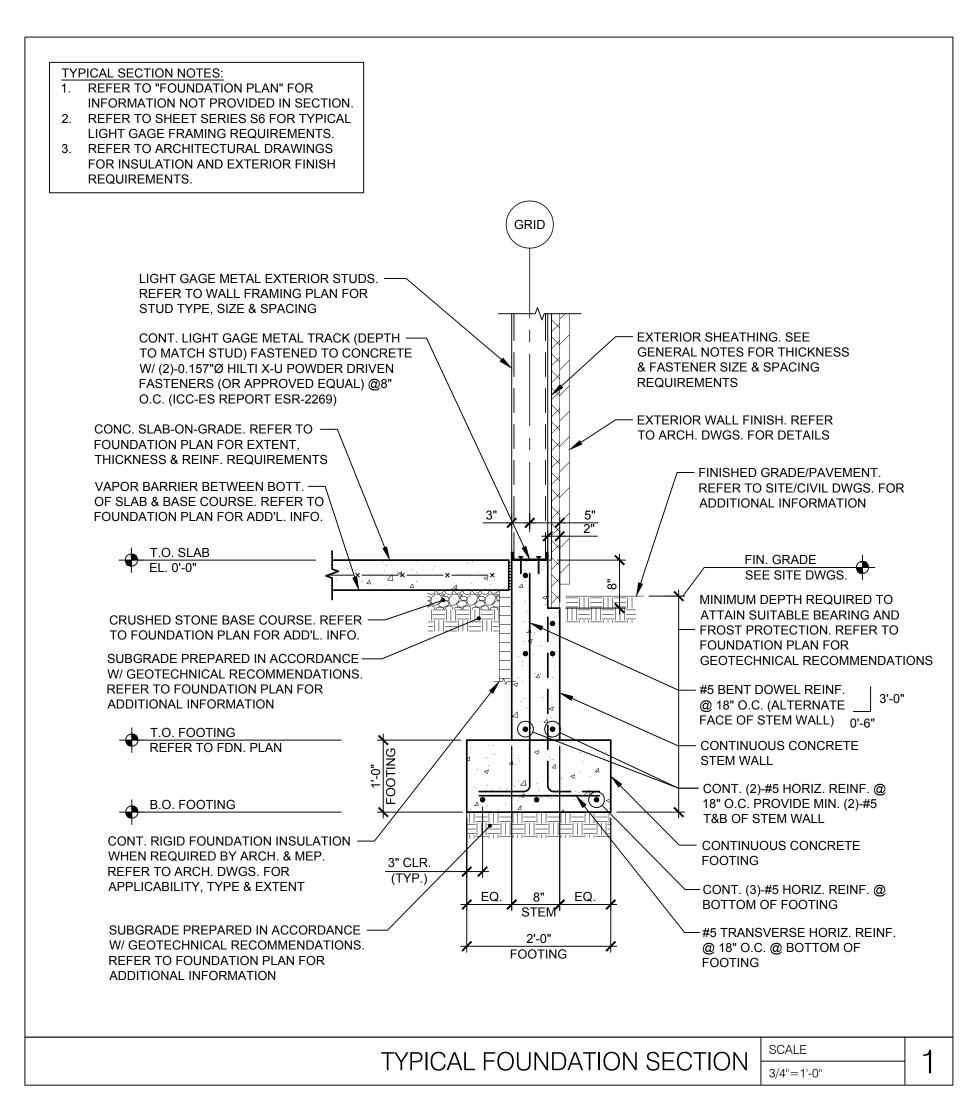
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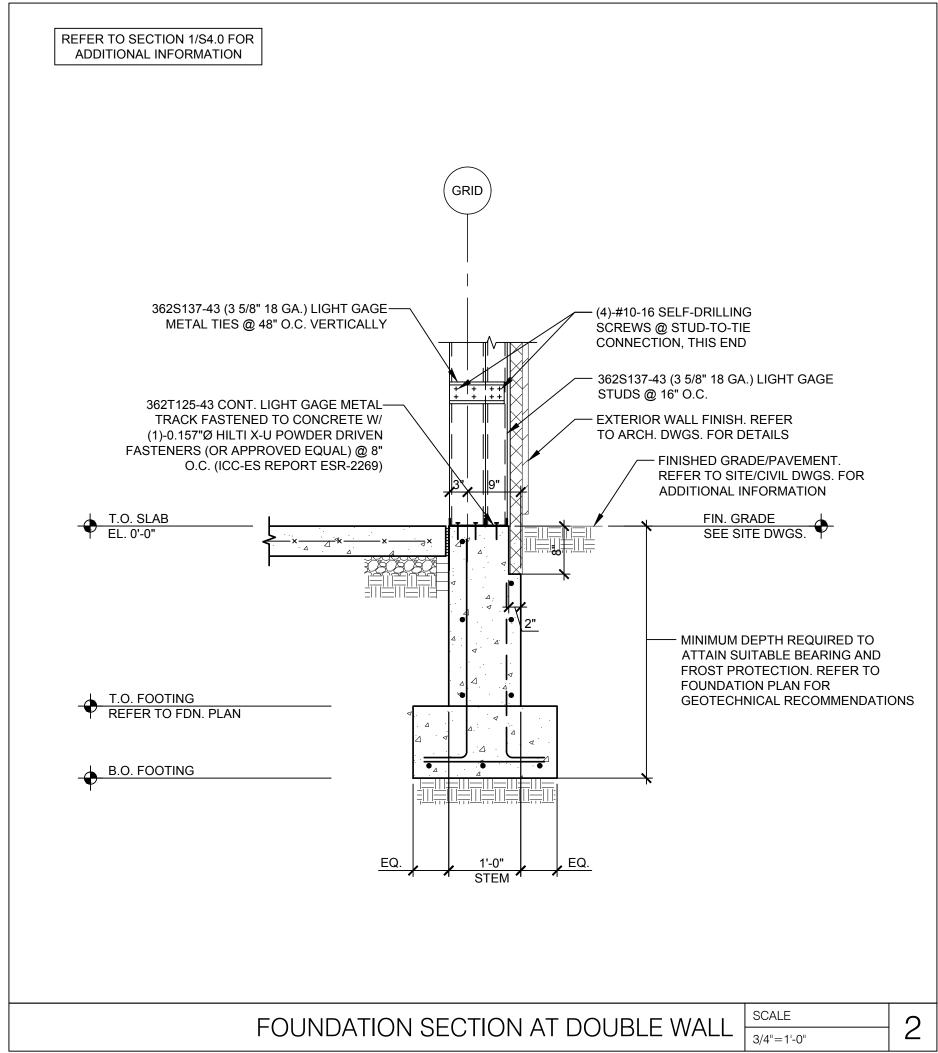
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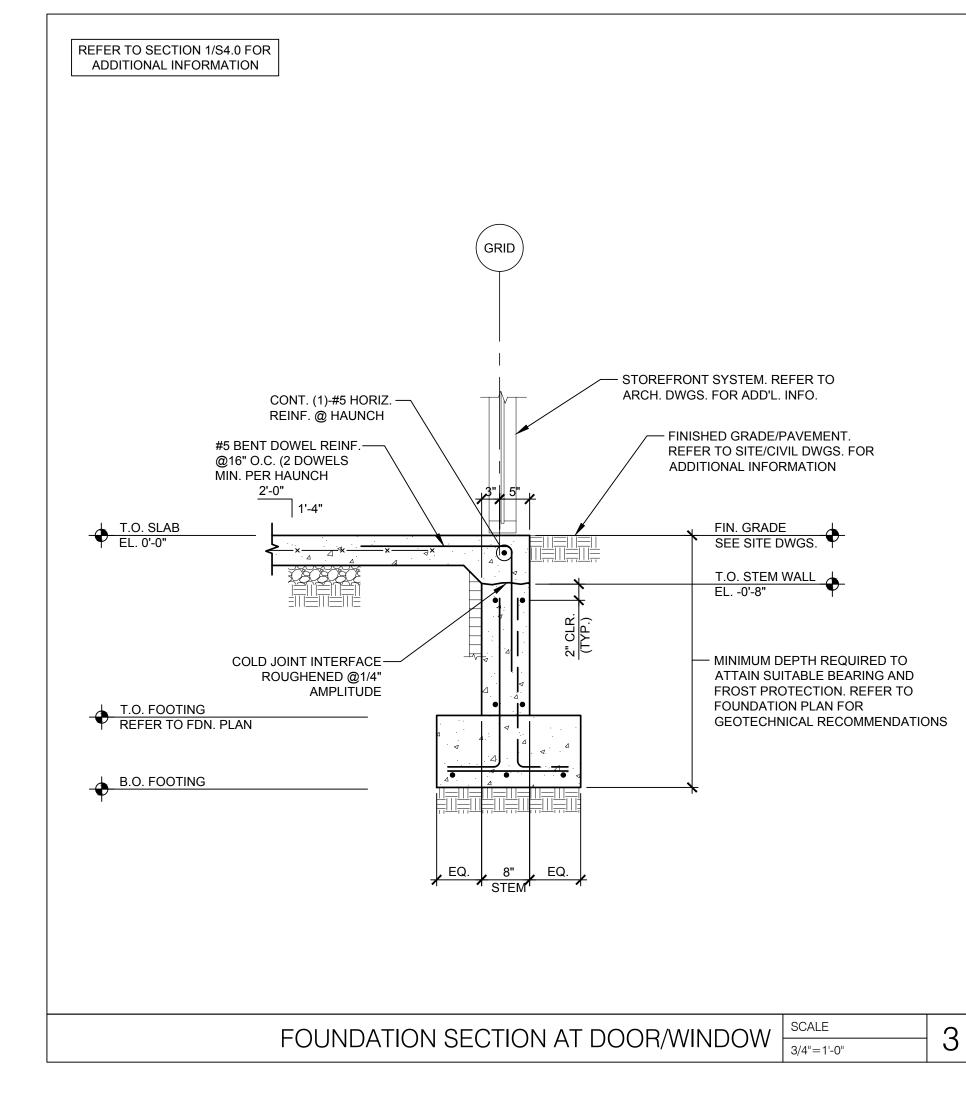
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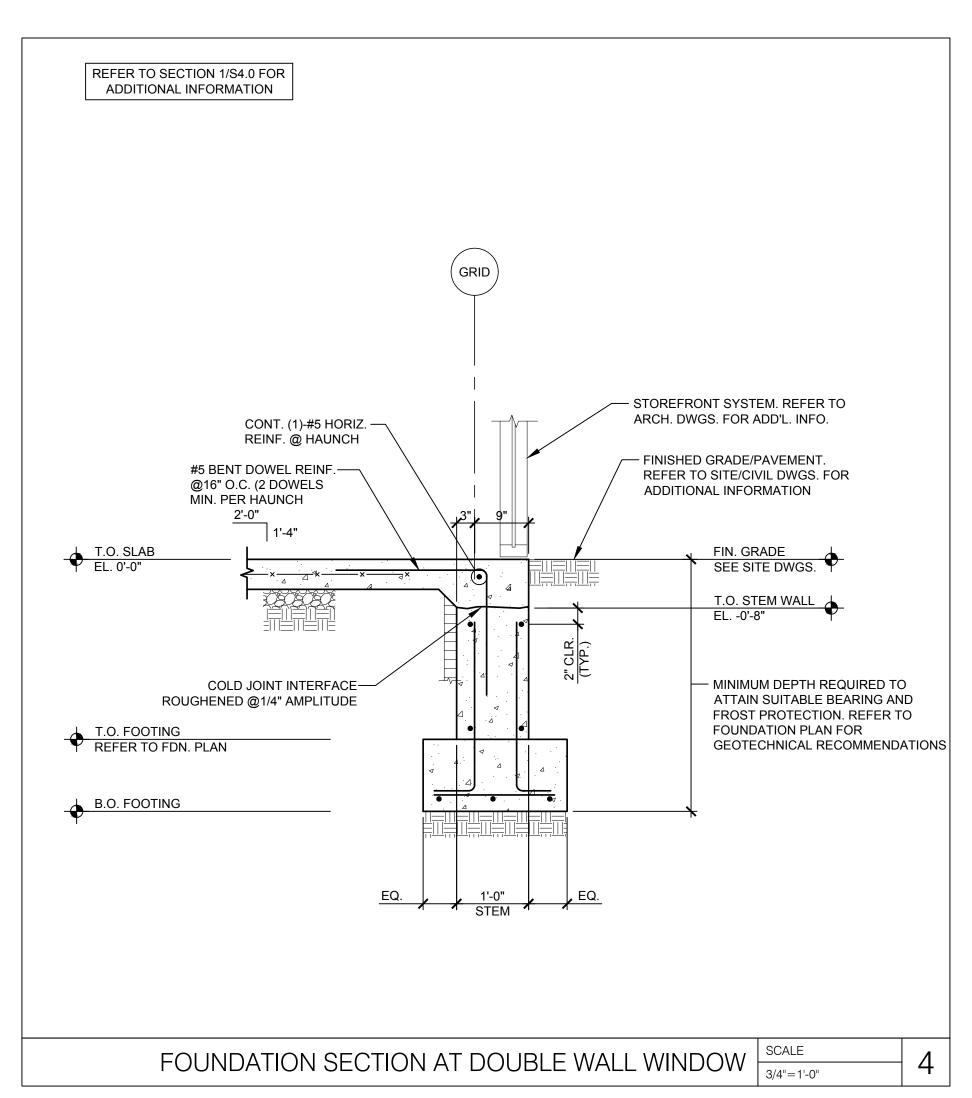
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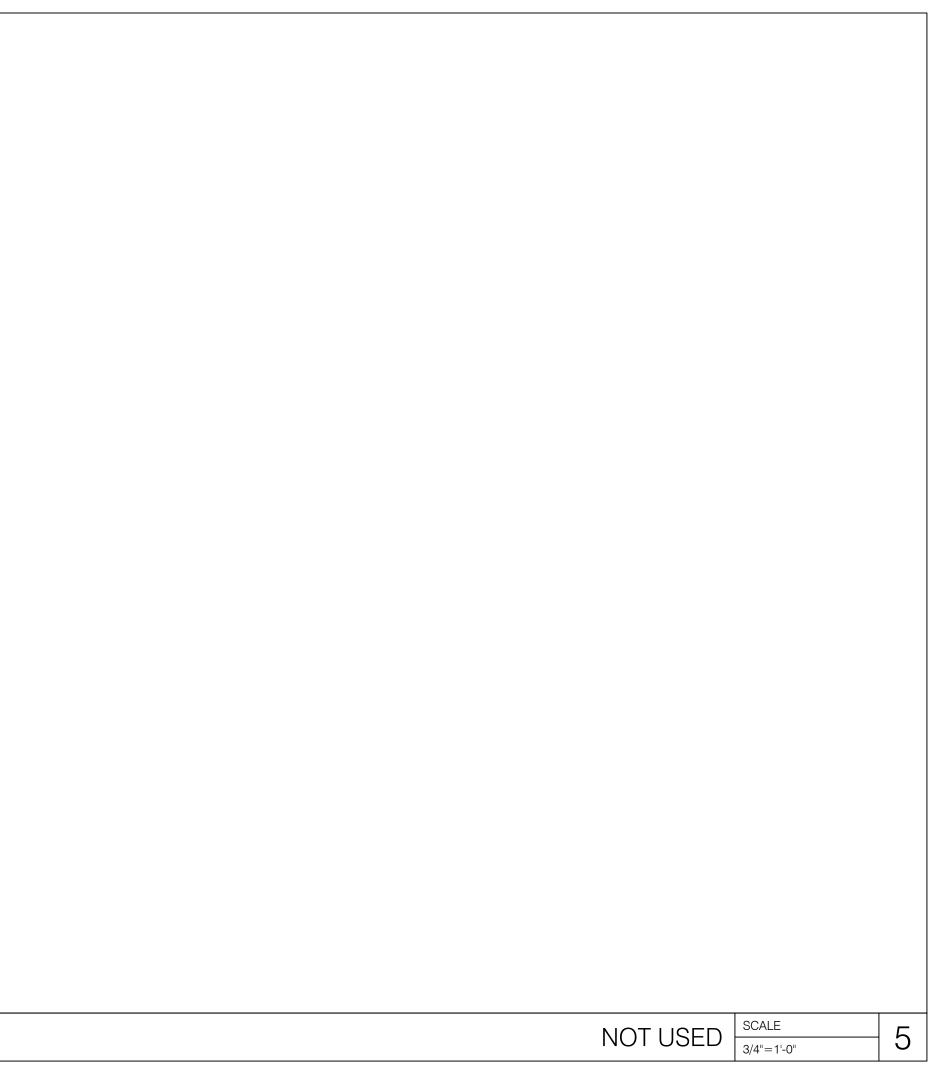
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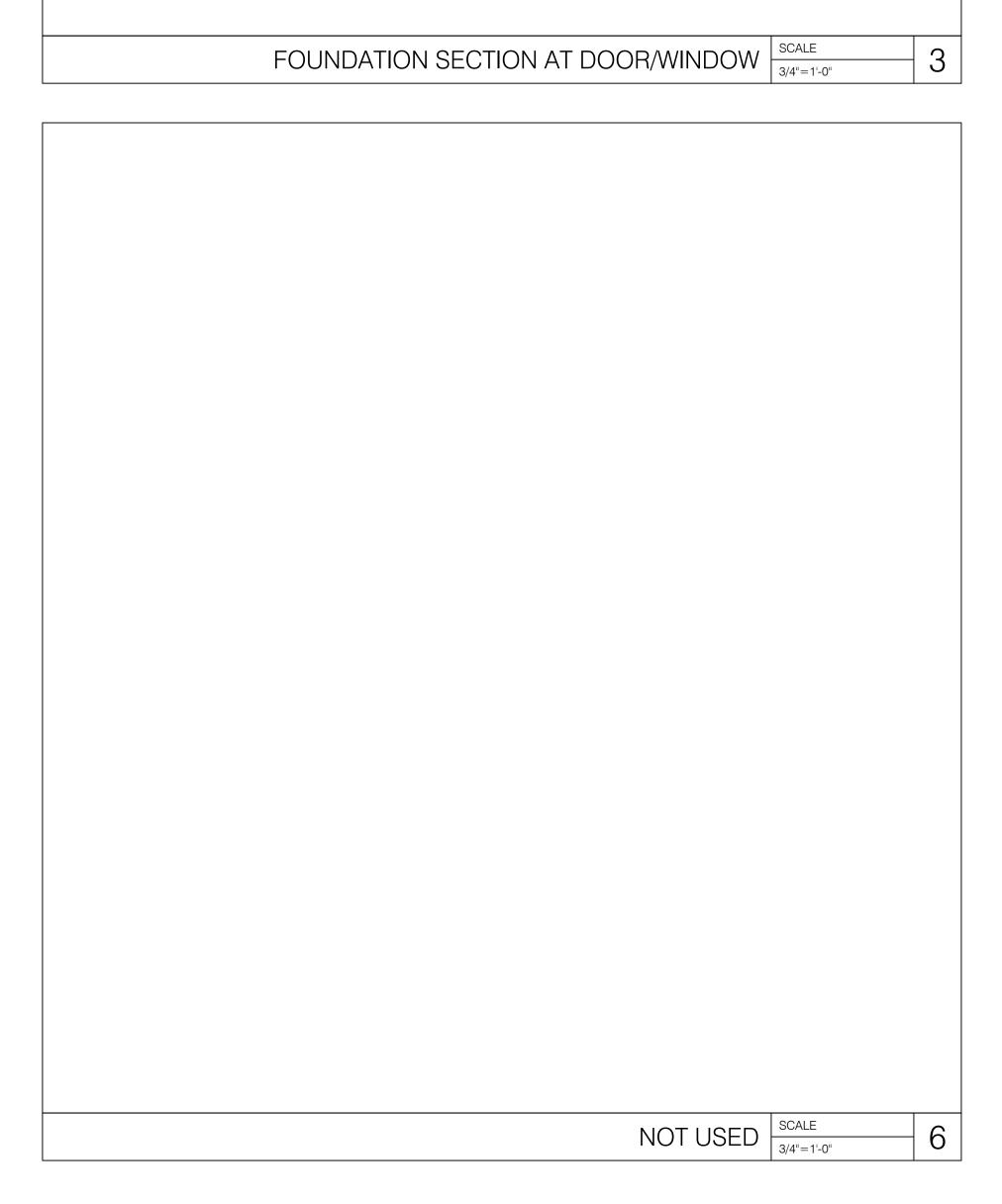








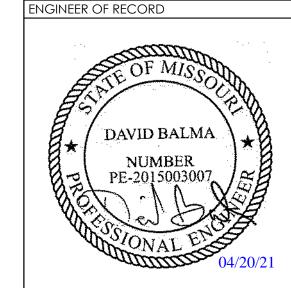












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1	2021.04.20	STRUCTURAL STEEL REV
PRO.	JECT INFO	ORMATION
PRO	DJECT NO:	JPM.27135.001
DA	TE:	2020.12.21
PRO	OTOTYPE:	20.2
DR.	AWN BY:	J.PEREZ
СН	ECKED BY:	E.SCALGIONE

DESCRIPTION

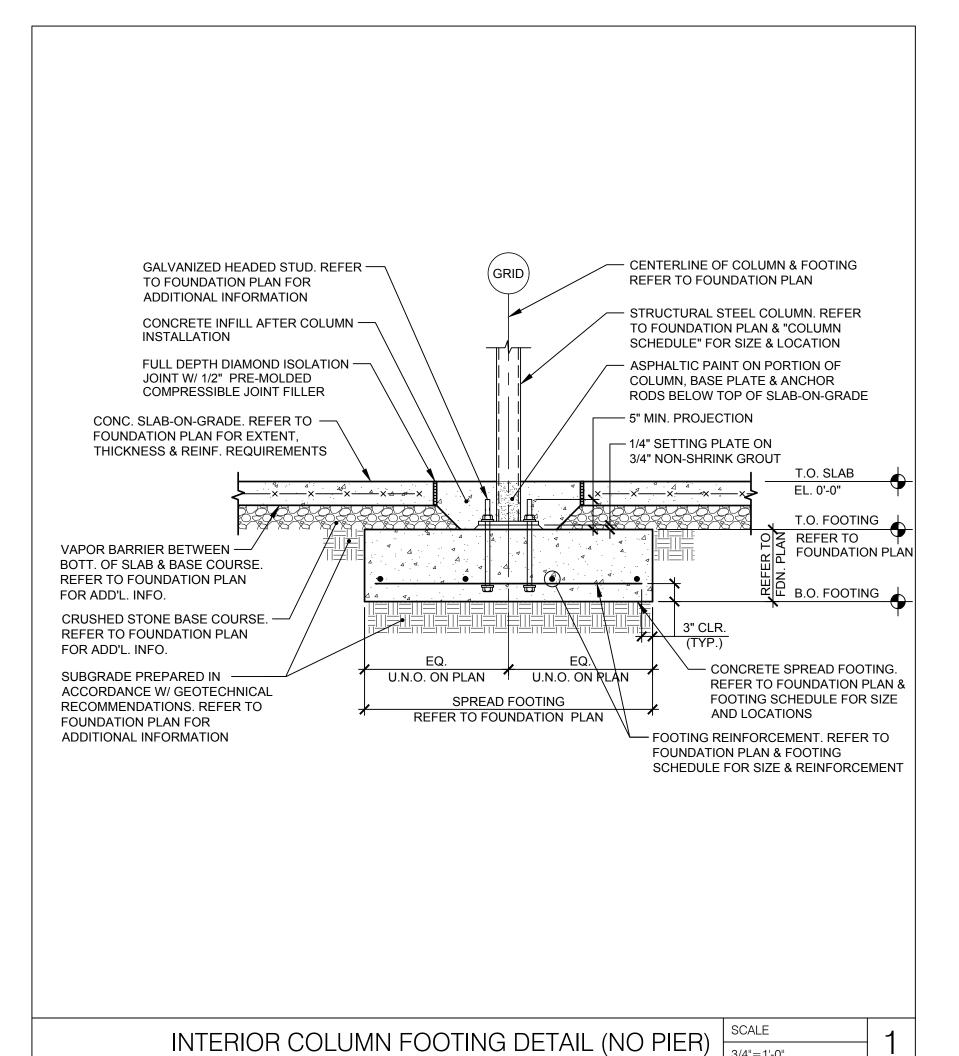
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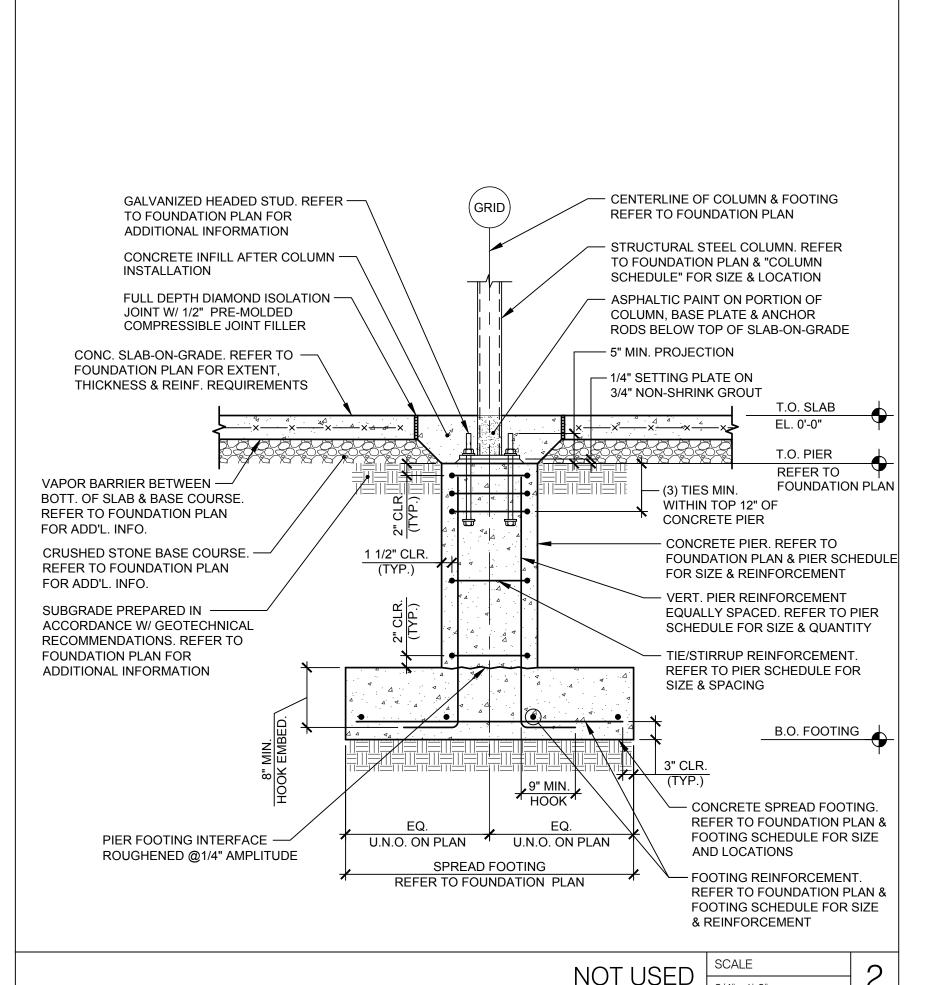
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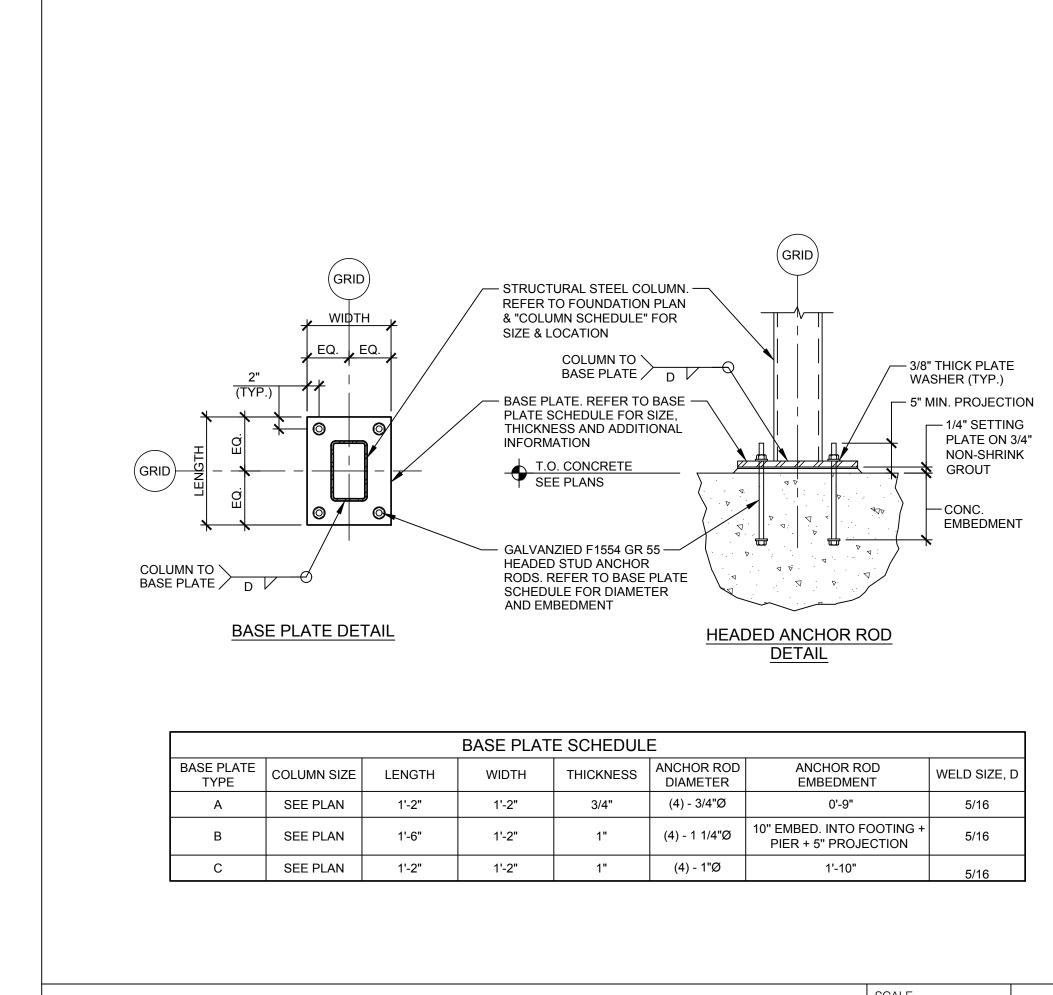
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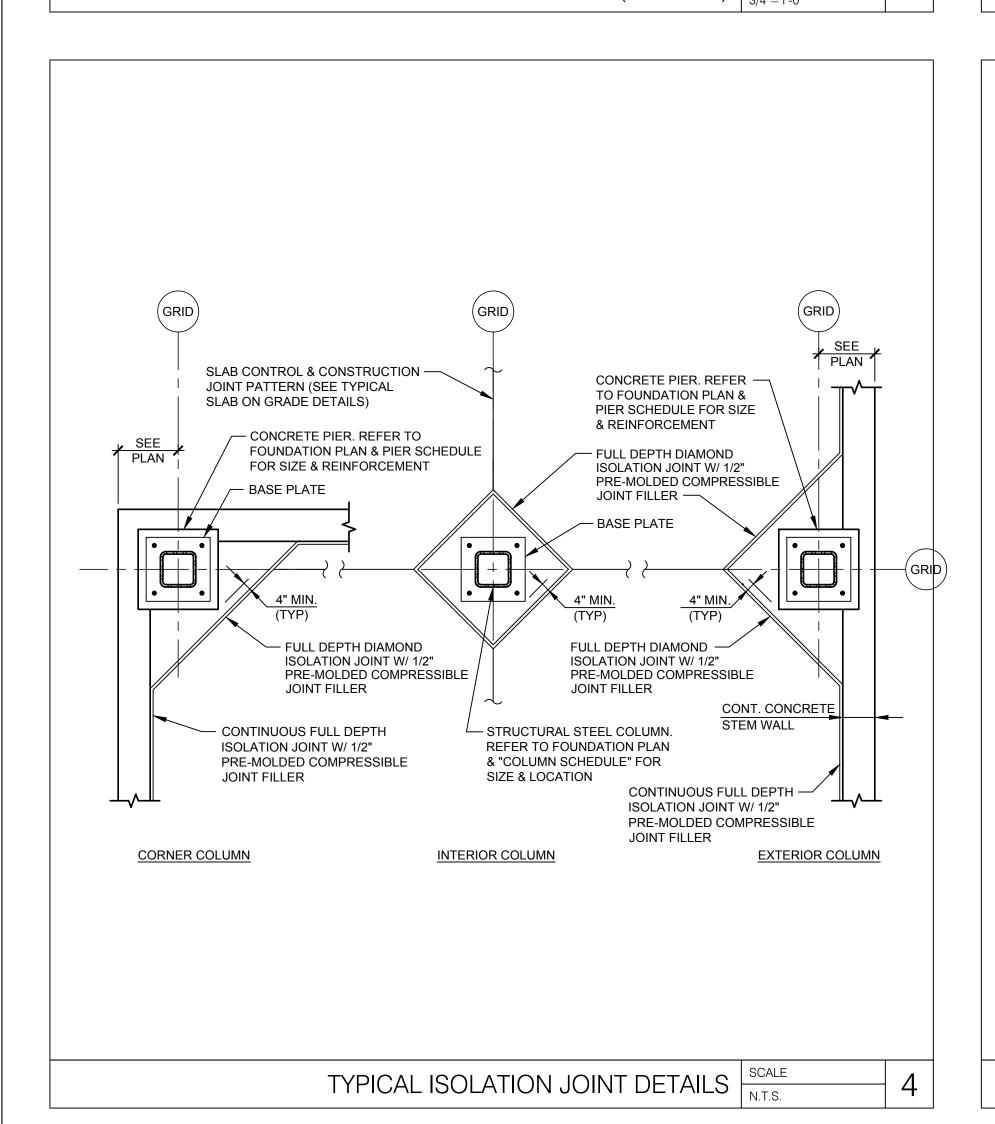
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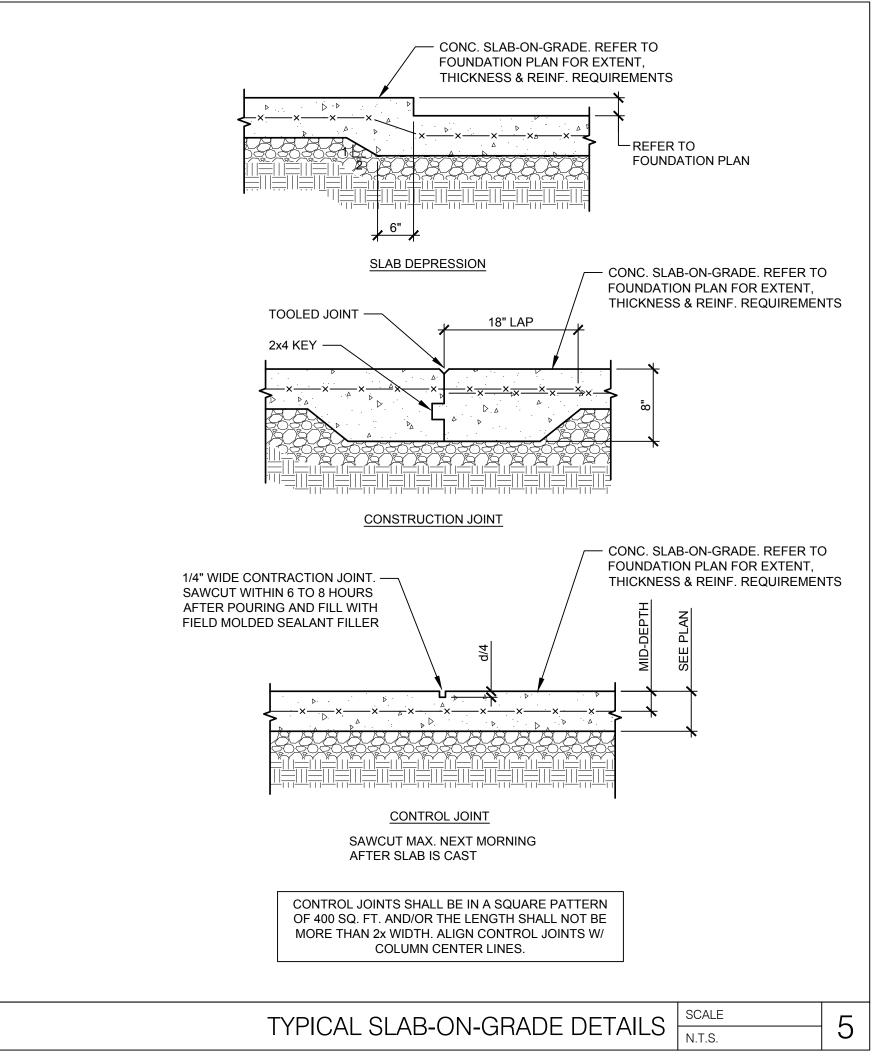
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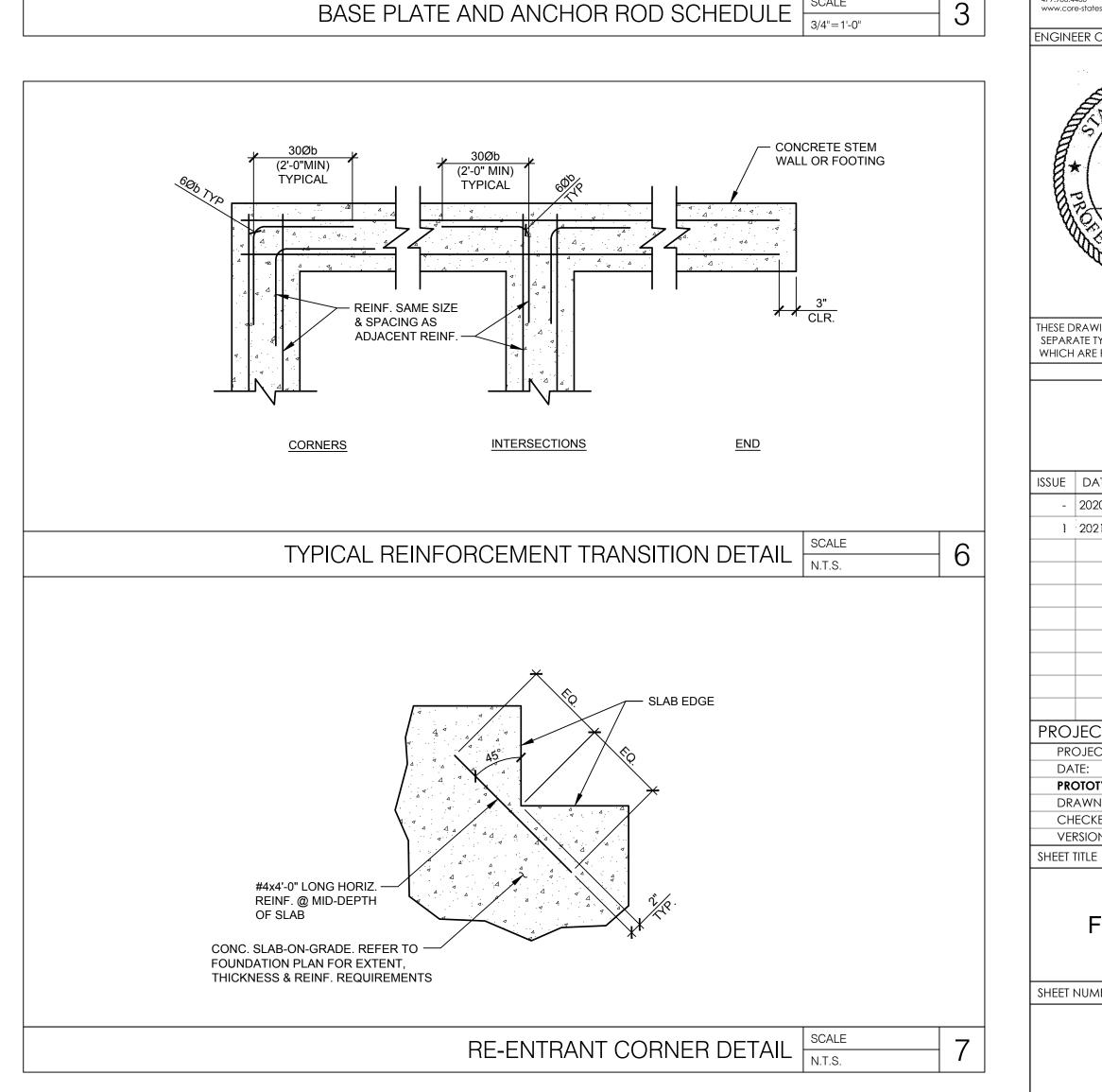






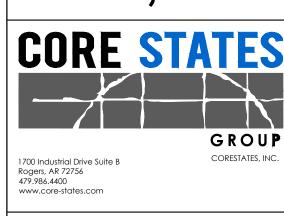


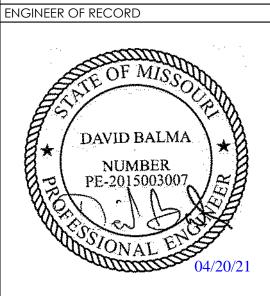












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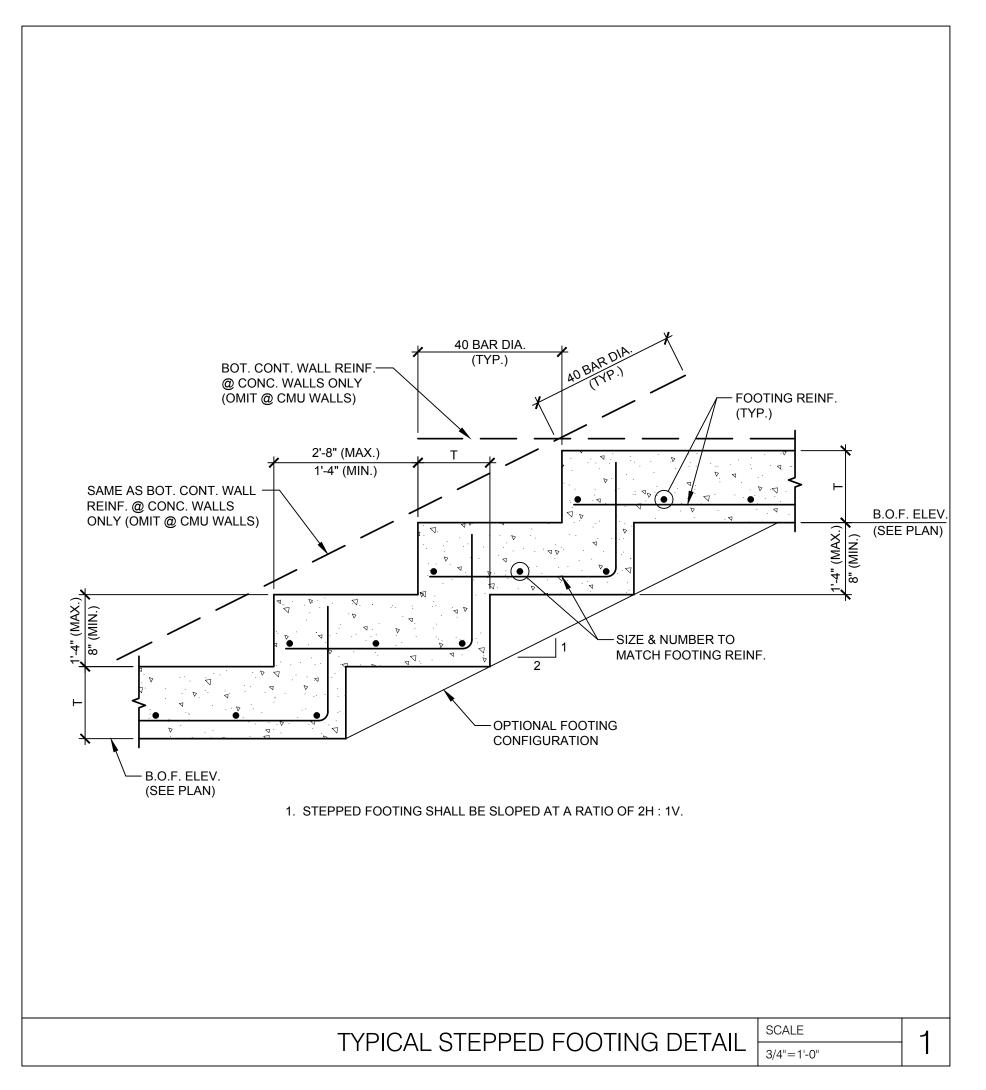
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3	2021.04.20	STRUCTURAL STEEL REV
PRO.	JECT INFO	DRMATION
PRO	DJECT NO:	JPM.27135.001
DA	TE:	2020.12.21
PRC	OTOTYPE:	20.2
DR	AWN BY:	J.PEREZ
СН	ECKED BY:	E.SCALGIONE

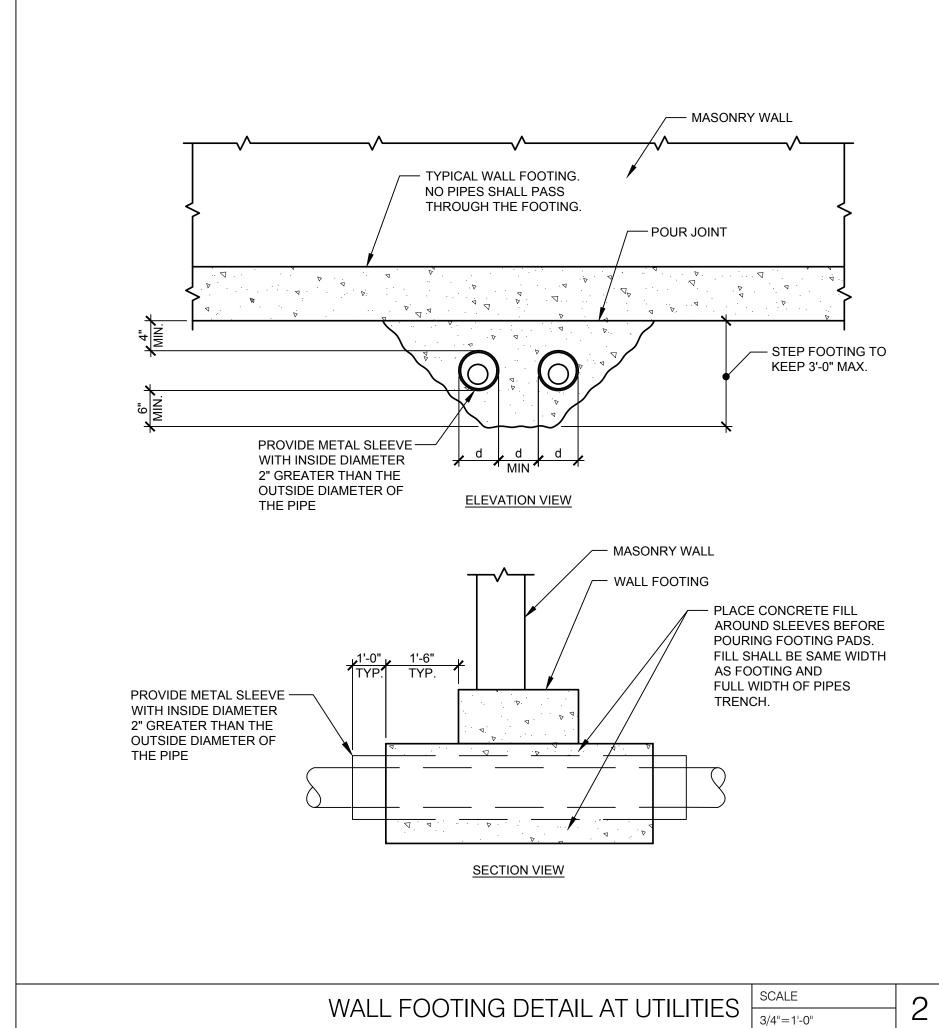
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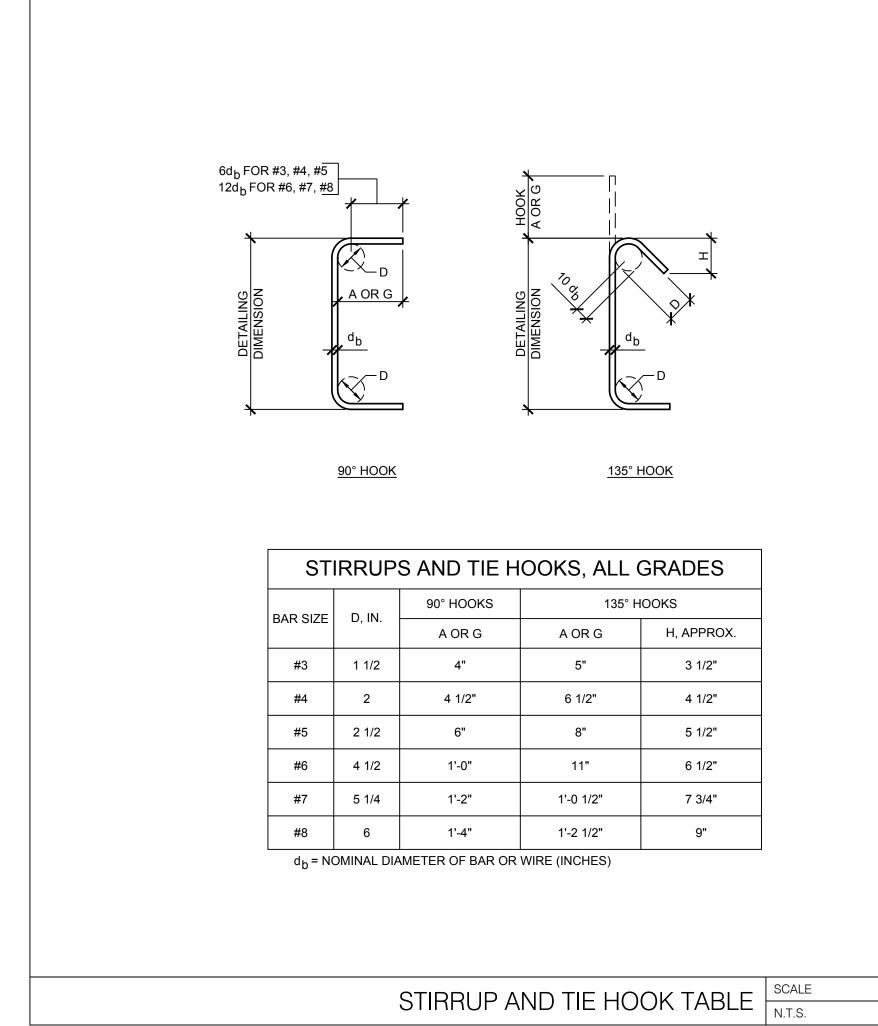
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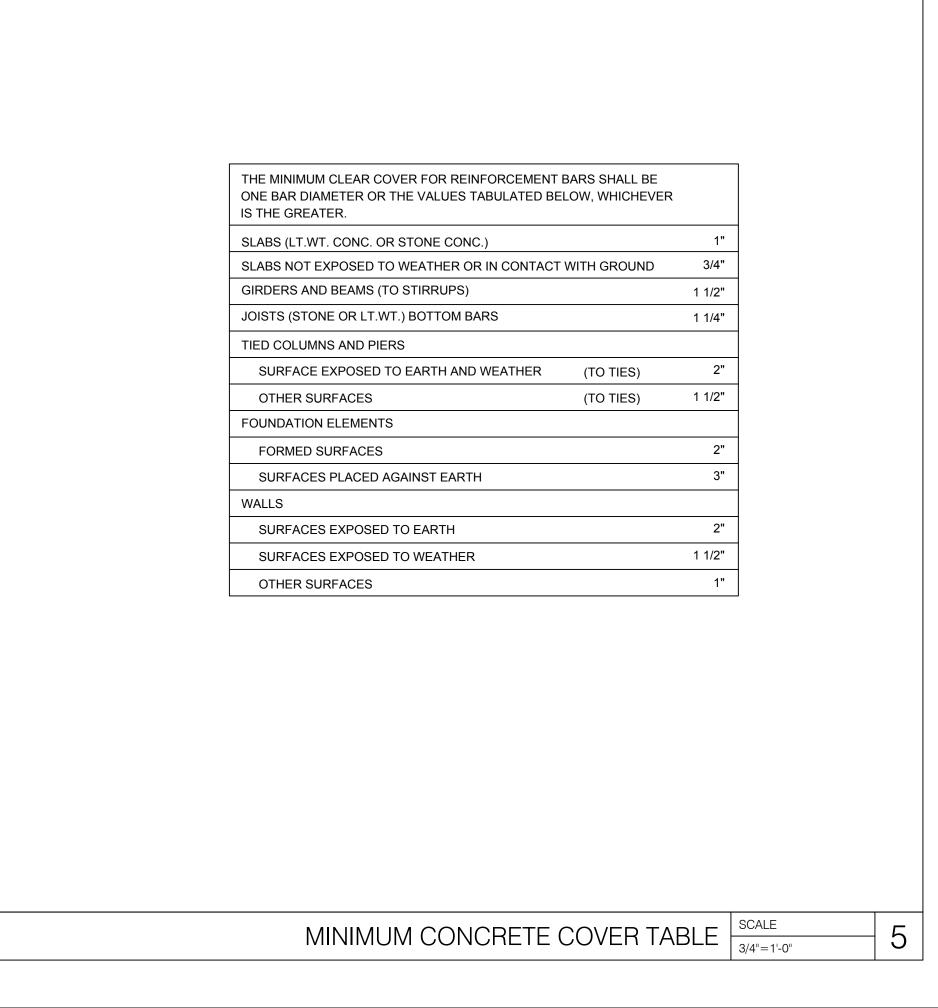


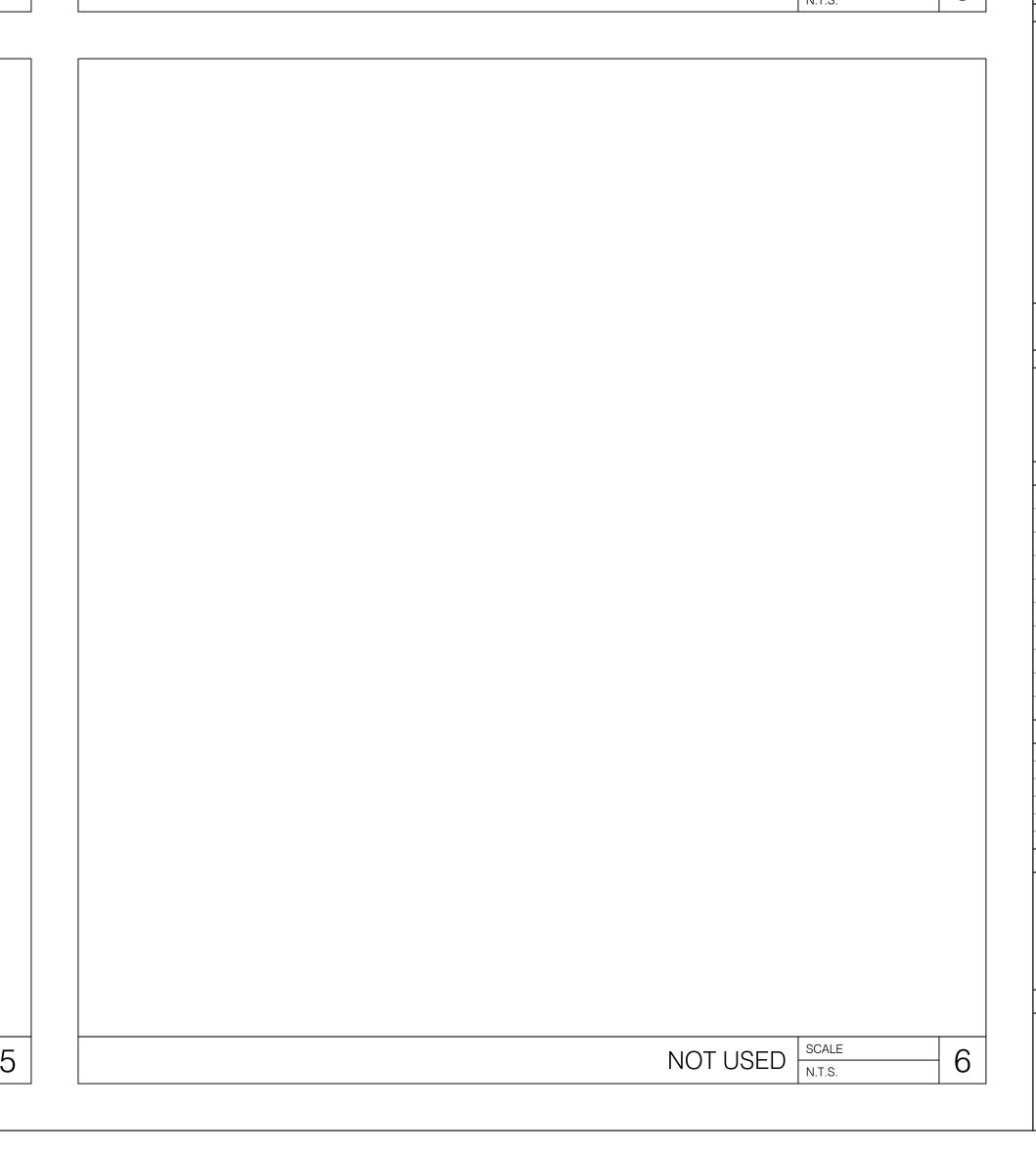


		Т	ENSION LA	AP SPLICE	S	COMPRESSION
BAR	LAP	LAP L	LAP			
SIZE	CLASS	CASE 1		CASE 2		SPLICES
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	В	24	19	36	28	12
#4	В	32	25	48	37	15
#5	В	40	31	60	47	19
#6	В	48	37	72	56	23
#7	В	70	54	106	81	26
#8	В	80	62	121	93	30
#9	В	91	70	136	105	34
#10	В	102	79	153	118	38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

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

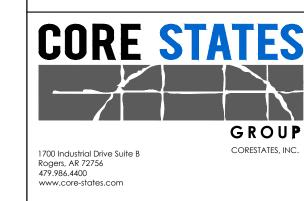
TOP BARS	OTHER BARS				
36	28	12			
48	37	15			
60	47	19			
72	56	23			
106	81	26			
121	93	30			
136	105	34			
153	118	38			
170	131	42			
OLINIER-TO-O	ENTER SPACING A	NI LLOO			
LAP S	PLICE TAI	BLE SCALE NONE	4	-	
		1	l .		

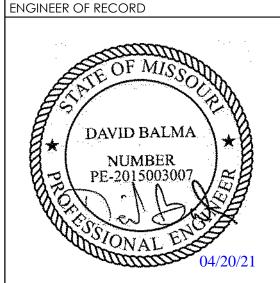












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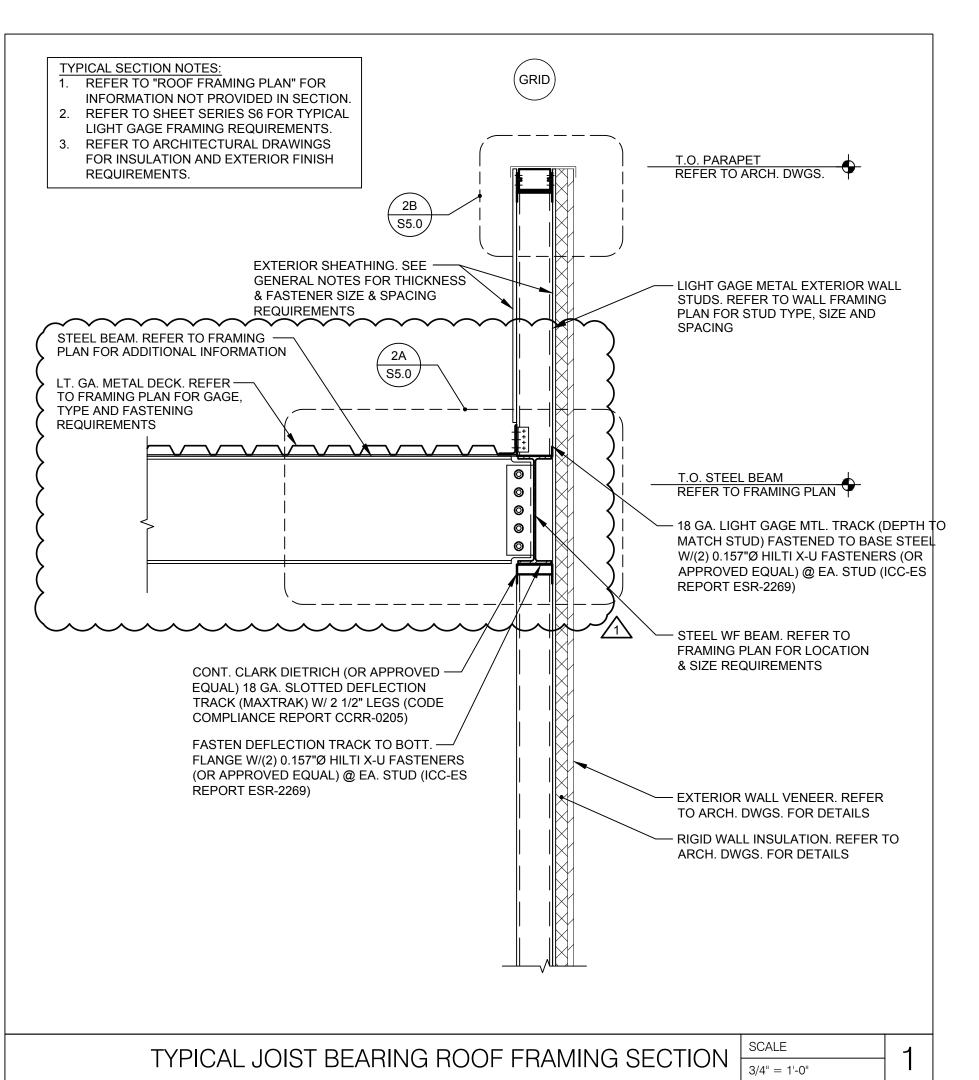
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-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV

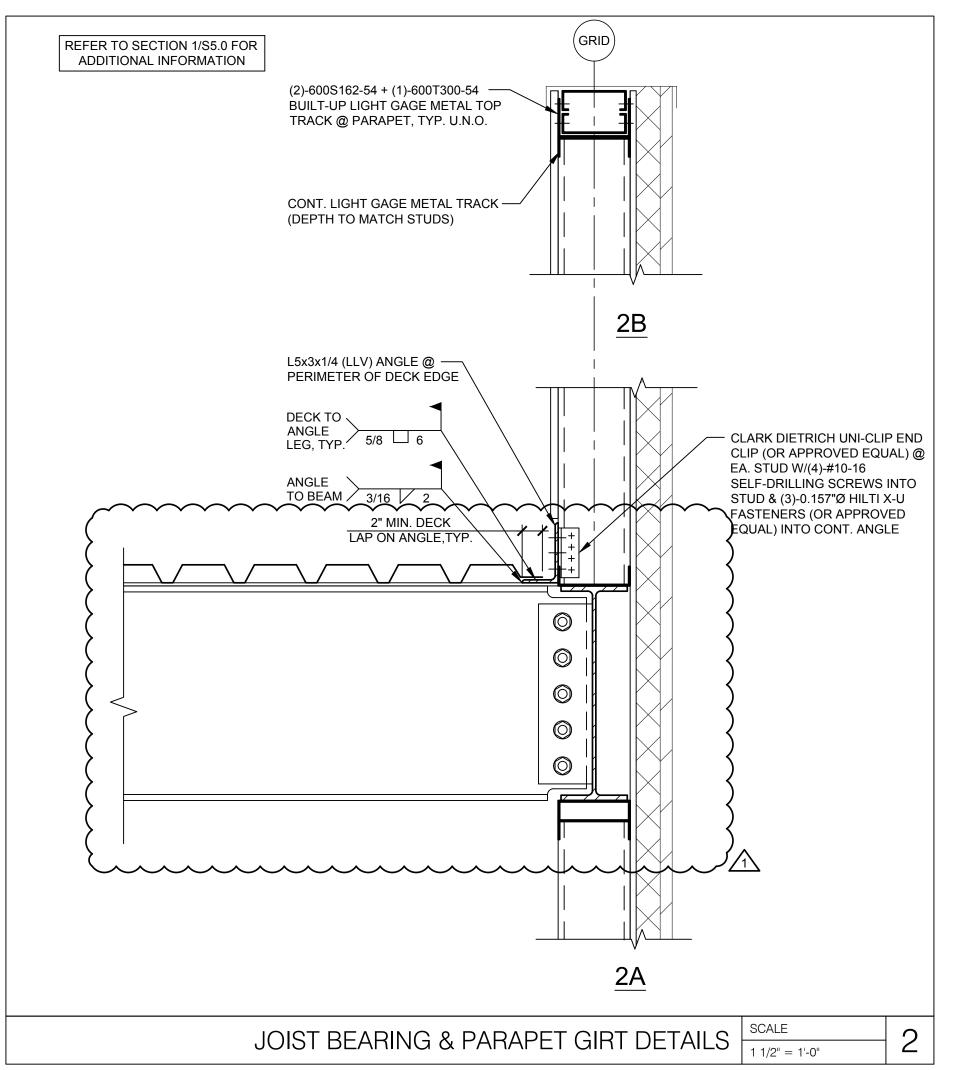
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DATE:	2020.12.21			
PROTOTYPE:	20.2			
DRAWN BY:	J.PEREZ			
CHECKED BY:	E.SCALGIONE			
VERSION:	SE_1.00			
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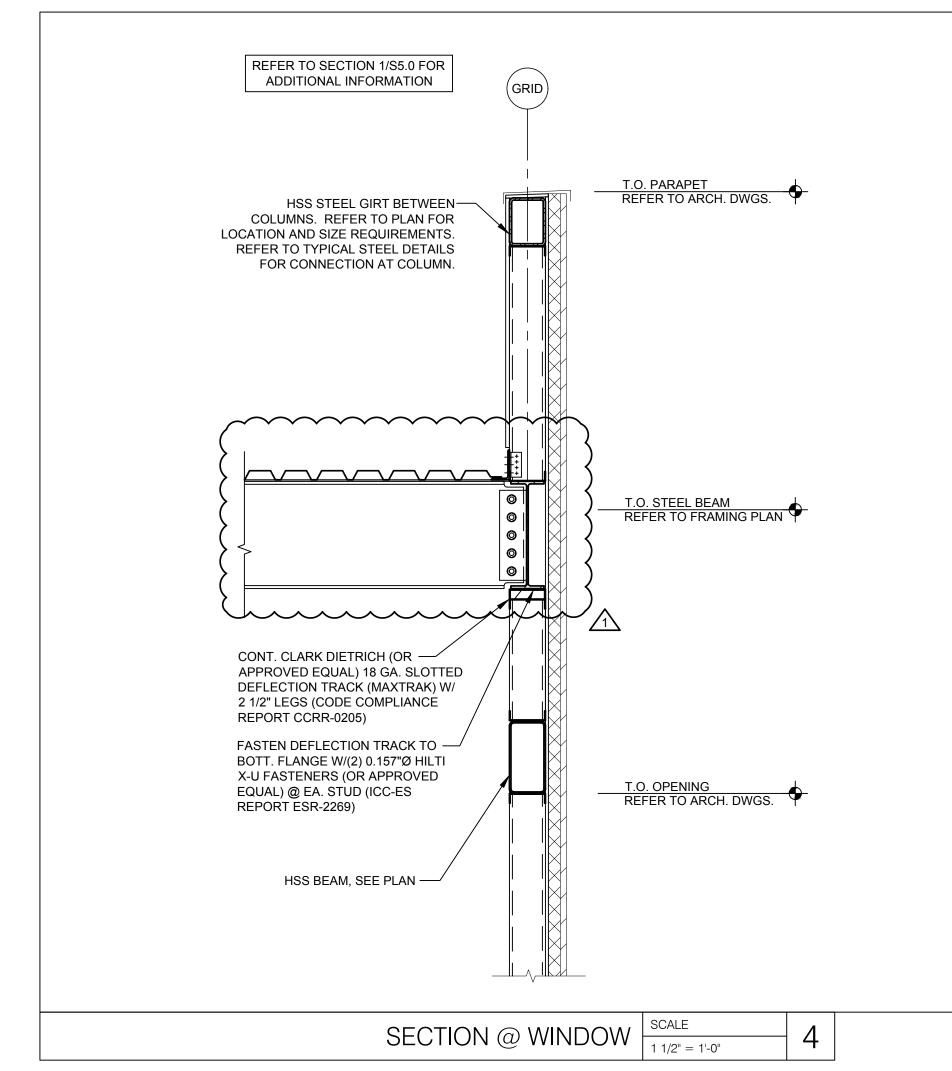
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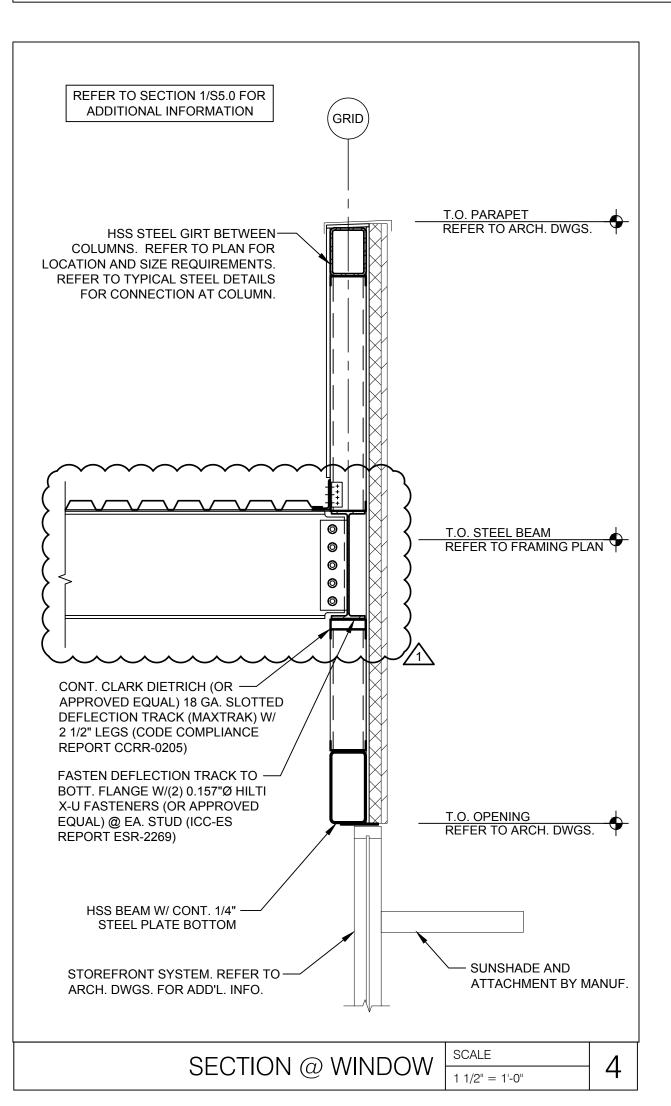
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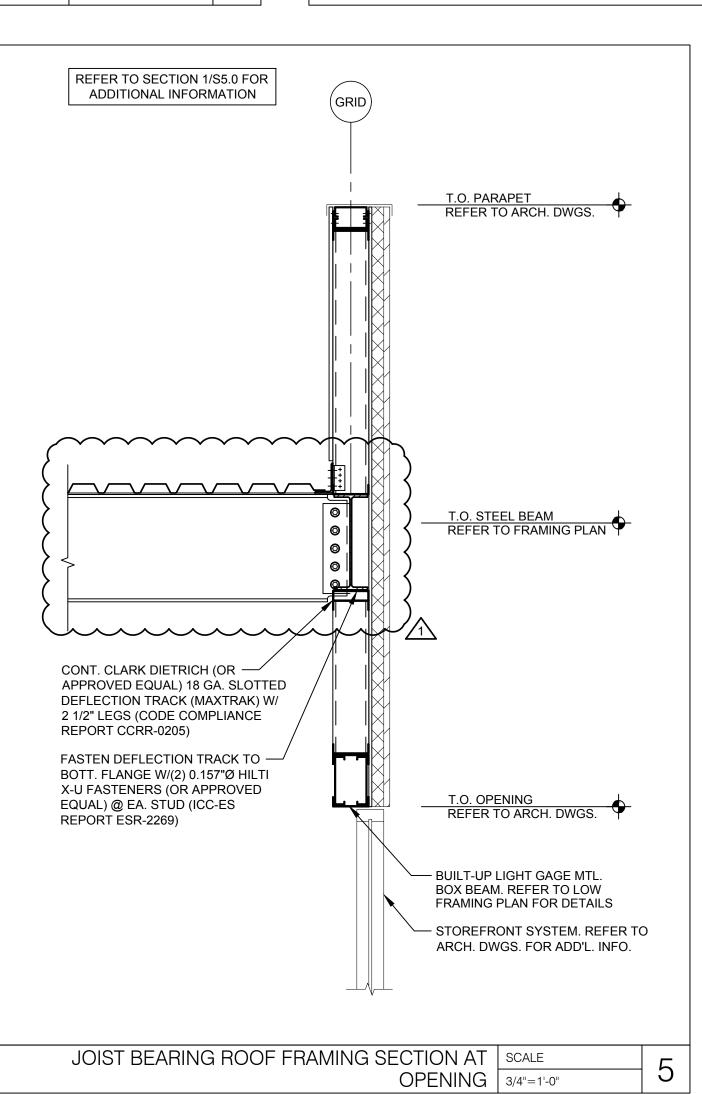
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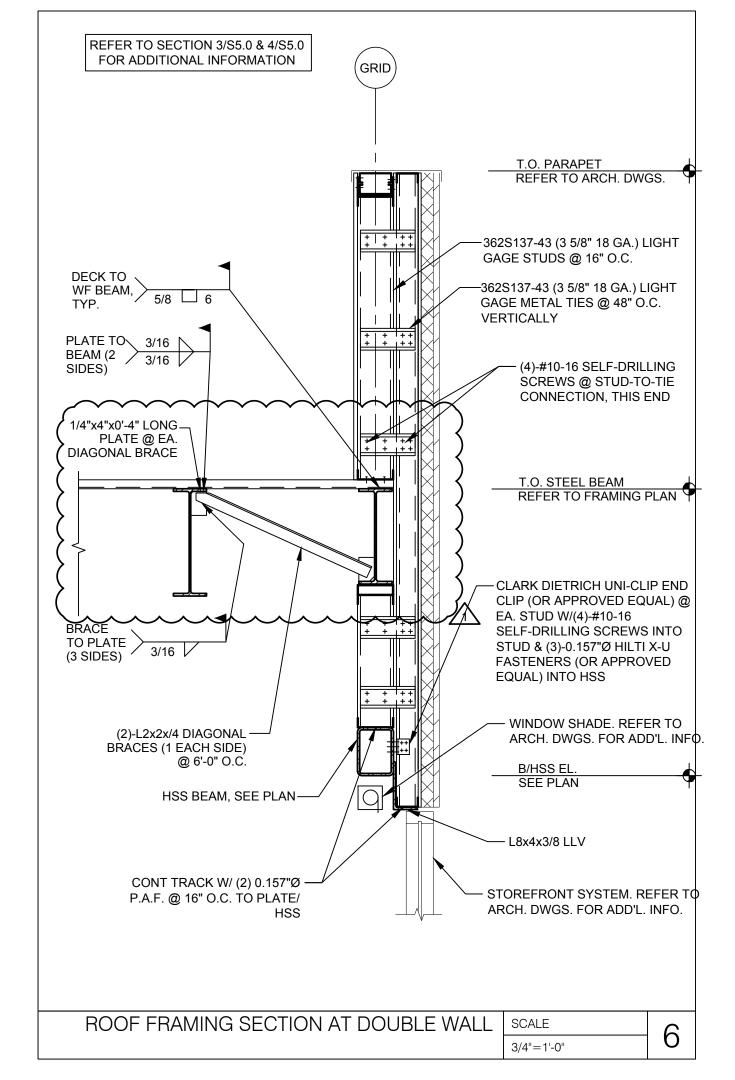


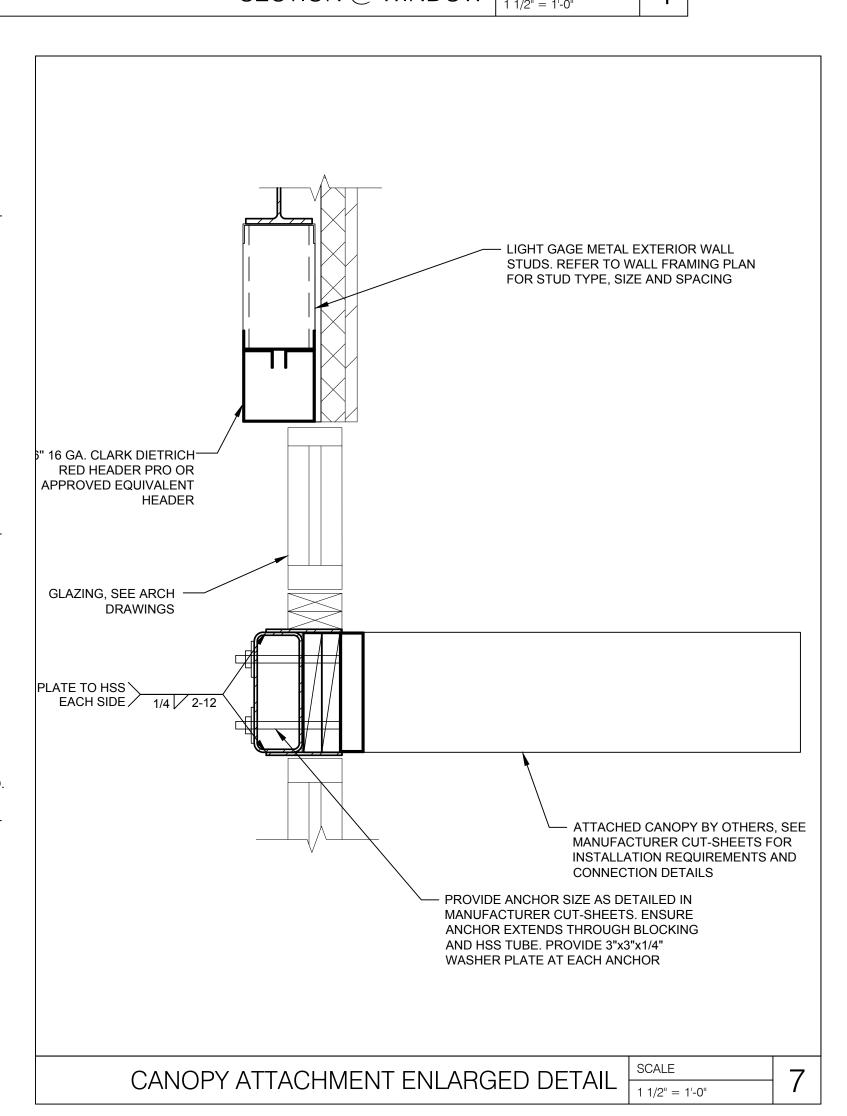










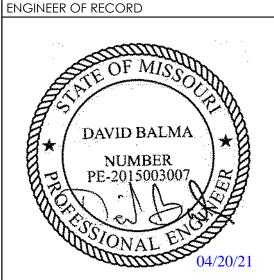


RELEASE FOR
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

08/13/2021

MORGAN CHASE, N., HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 890 NE LANGSFORD RD





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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
PRO.	JECT INFO	ORMATION
PRO	OJECT NO:	JPM.27135.001
DATE:		2020.12.21
PRO	OTOTYPE:	20.2
DR.	AWN BY:	J.PEREZ
СН	ECKED BY:	e.scalgione

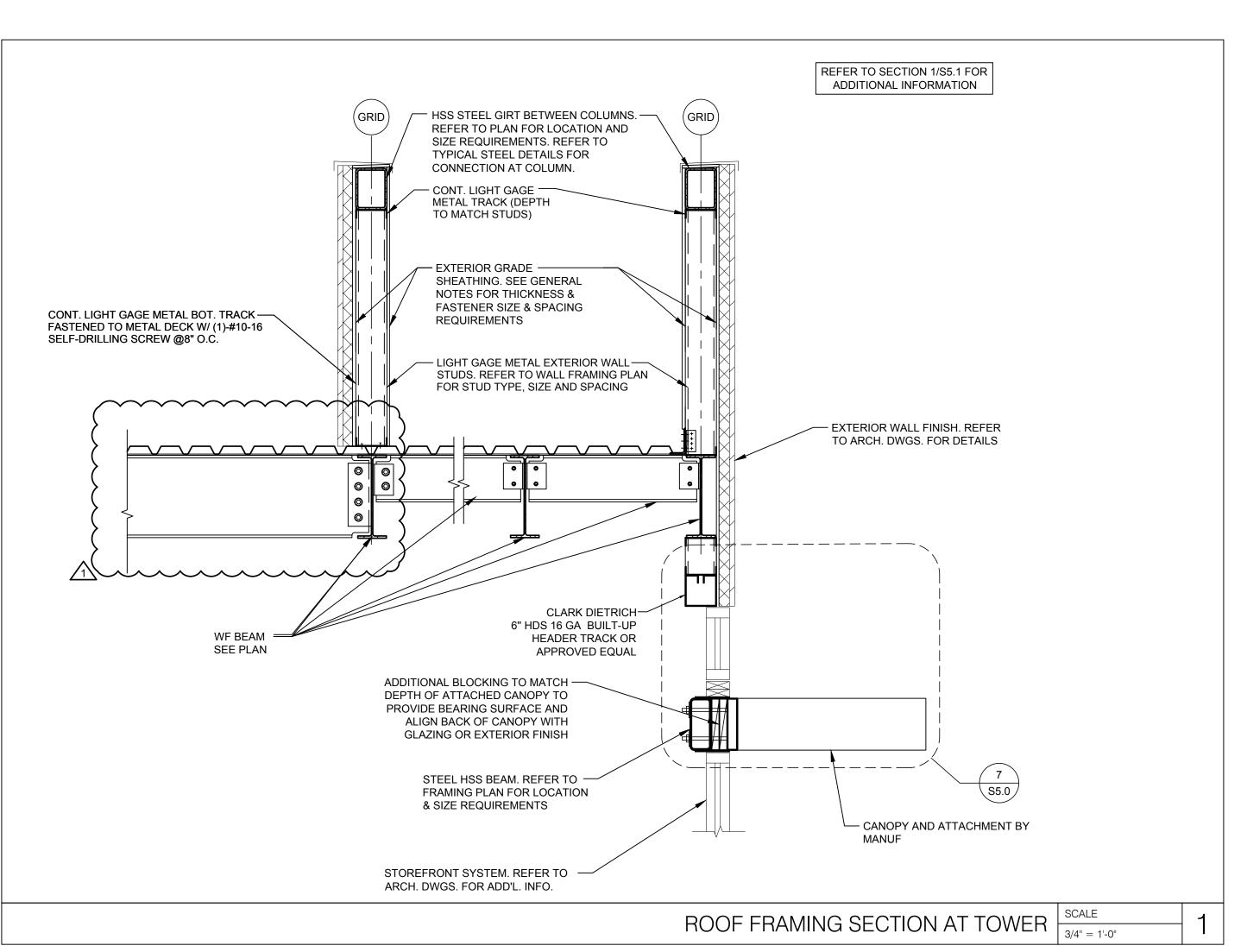
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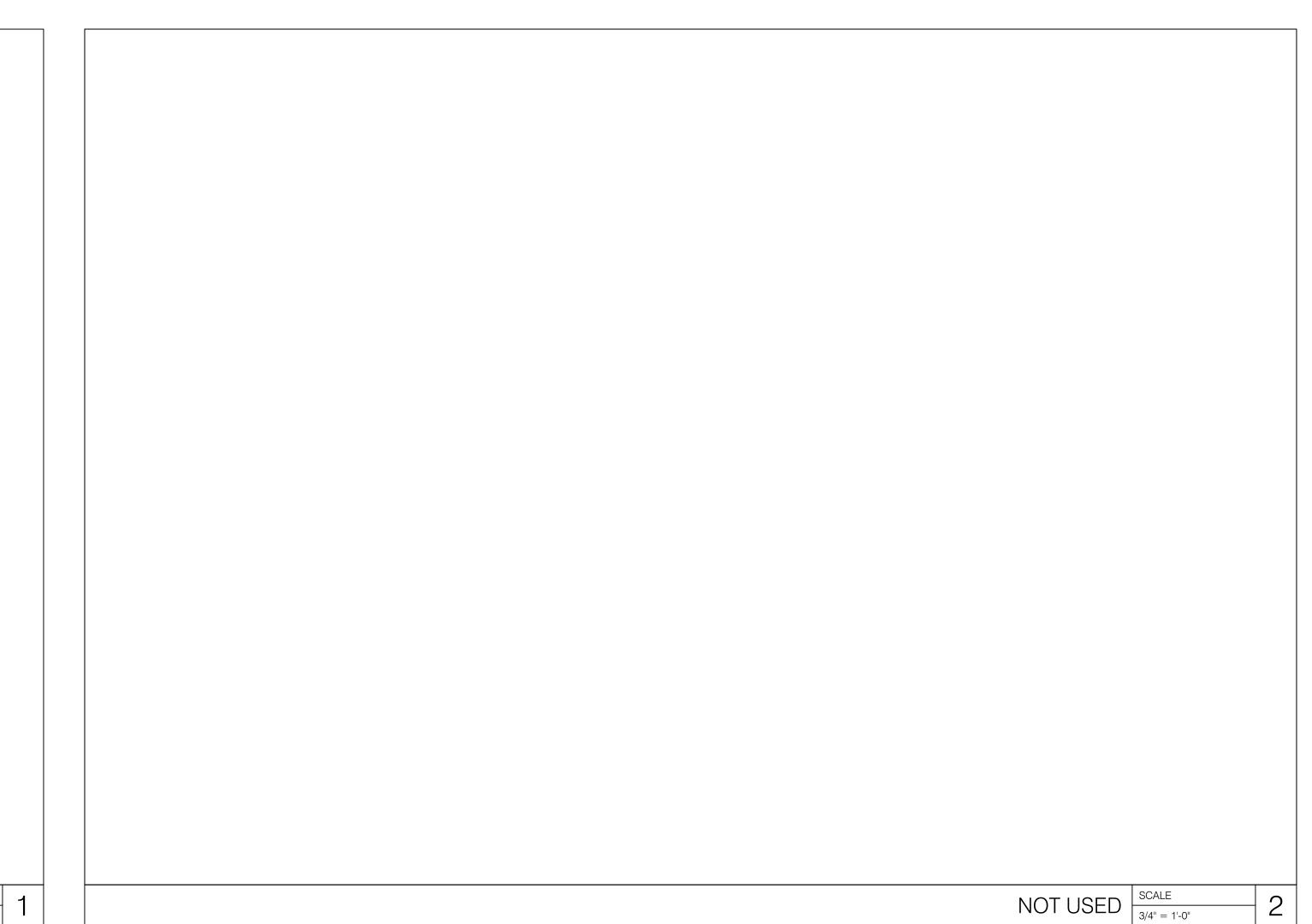
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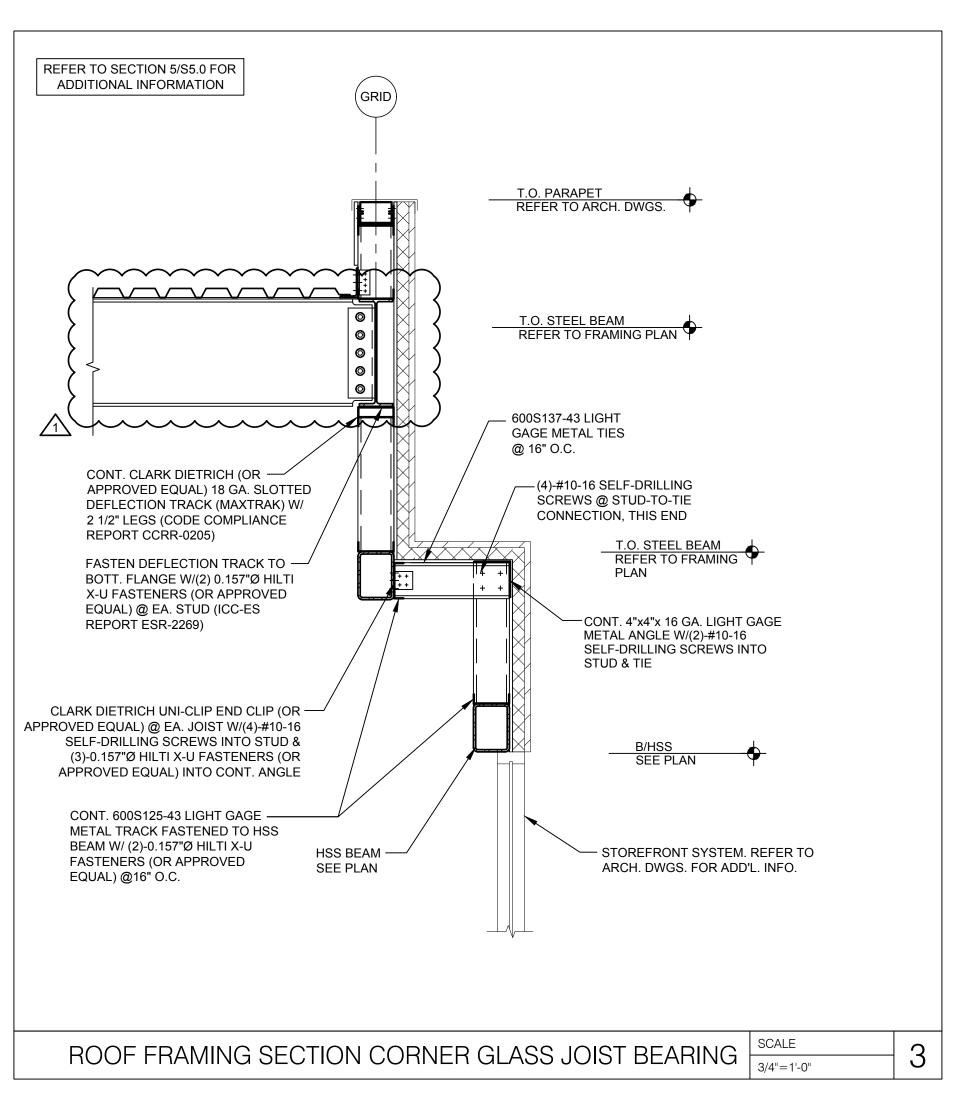
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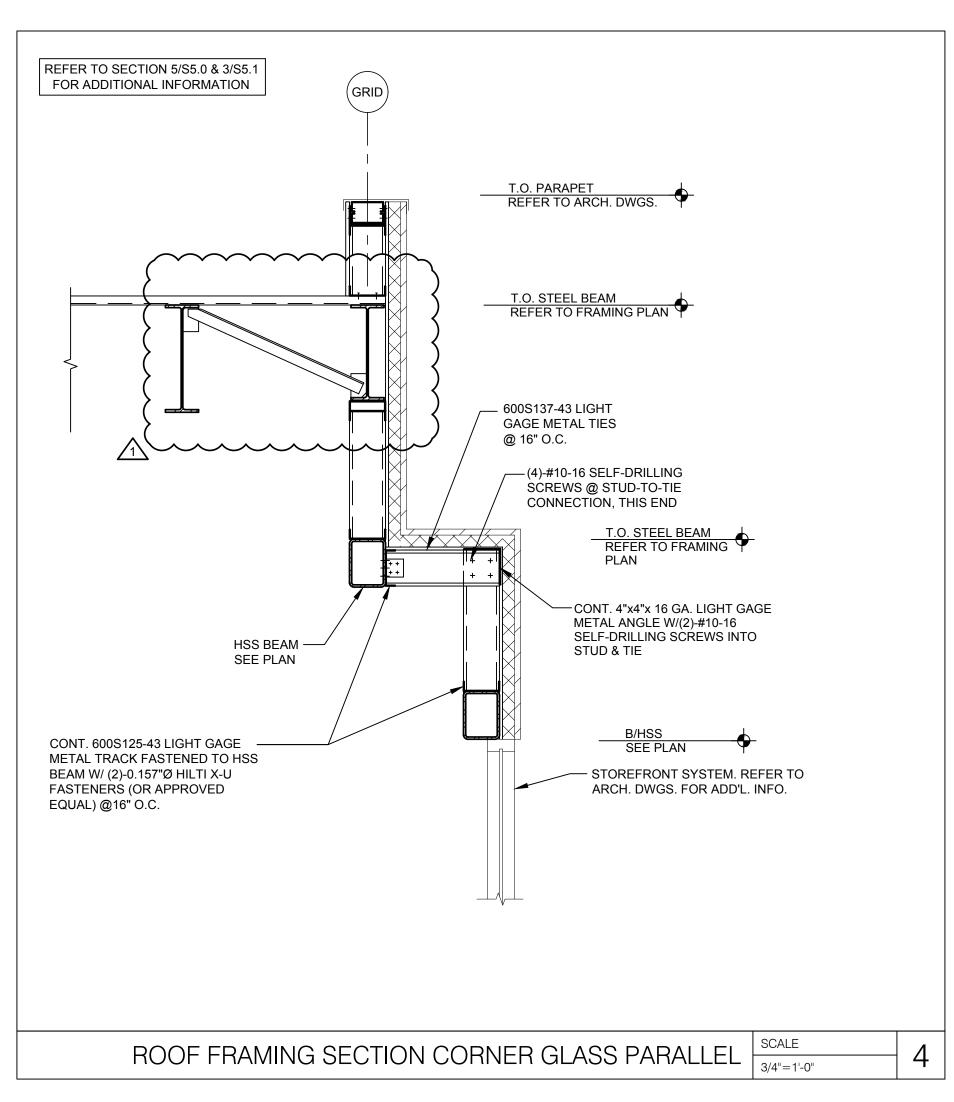
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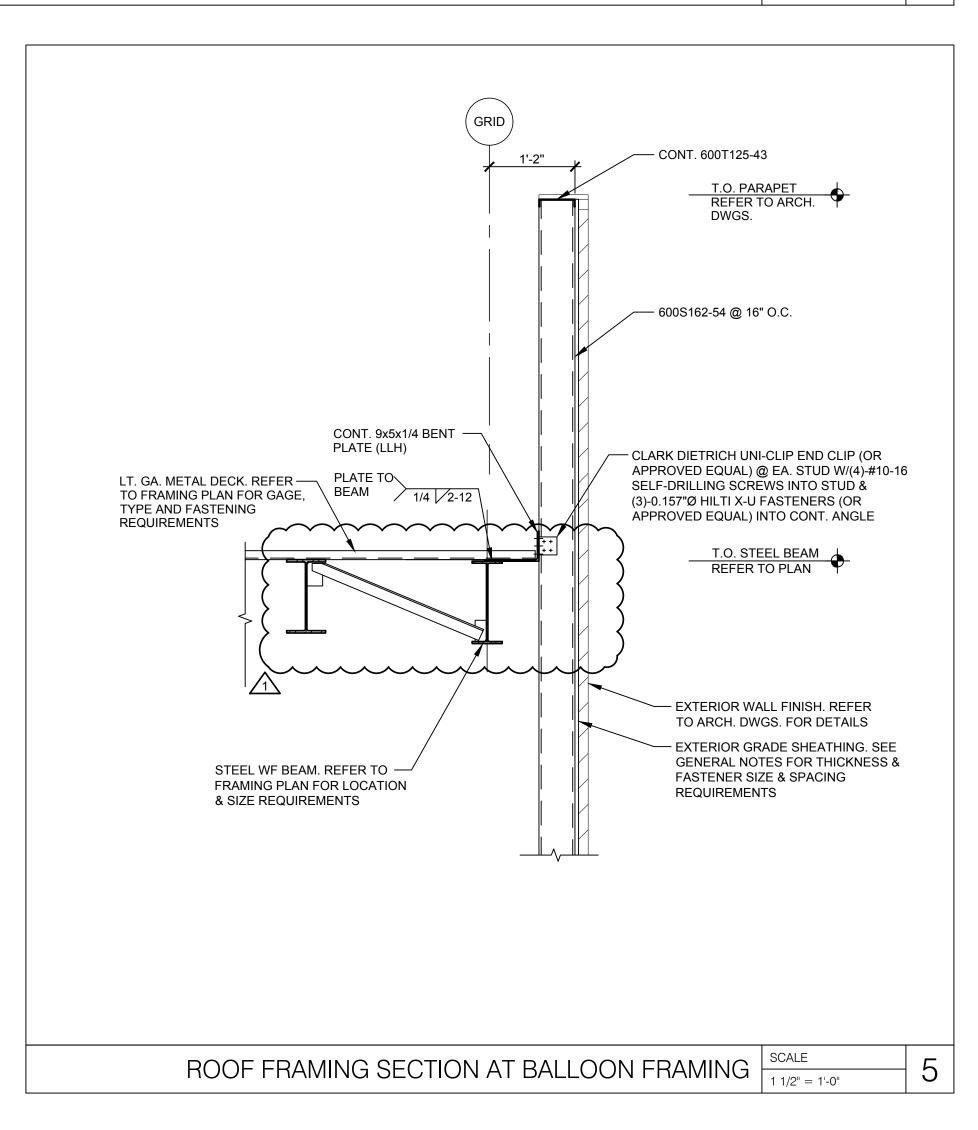
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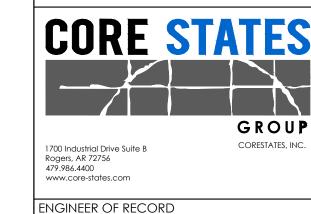


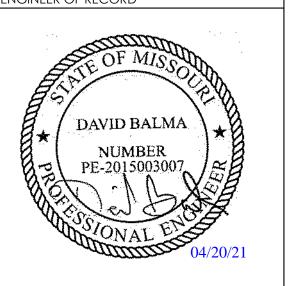






JP MORGAN CHASE, N.A HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 890 NE LANGSFORD RD





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ISSUE	DATE	DESCRIPTION		
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1	2021.04.20	STRUCTURAL STEEL REV		
PROJECT INFORMATION				
PRO	DJECT NO:	JPM.27135.001		
DA	TE:	2020.12.21		
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DR	AWN BY:	J.PEREZ		
СН	ECKED BY:	E.SCALGIONE		

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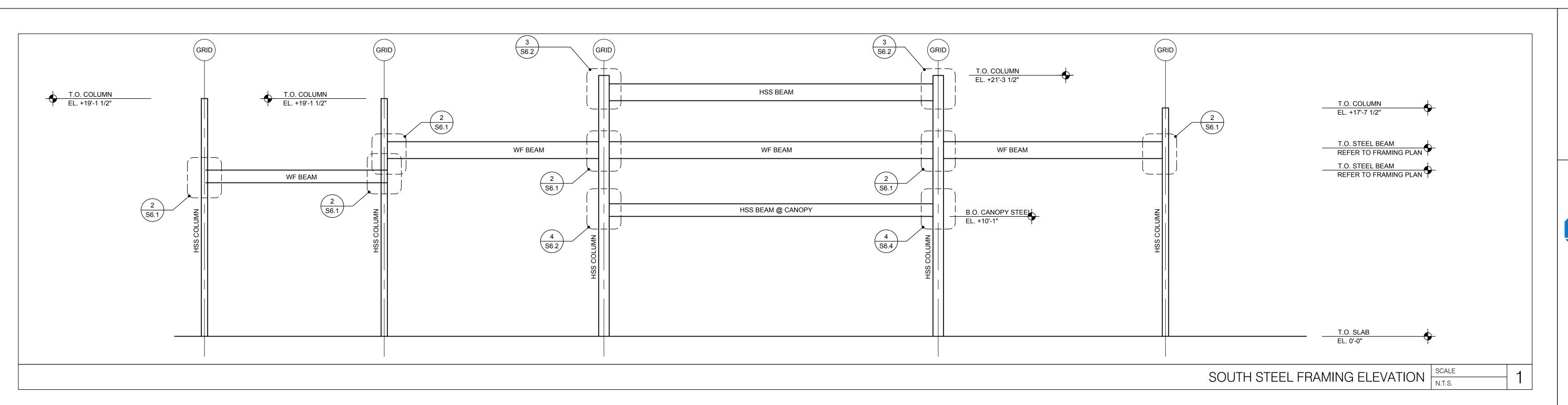
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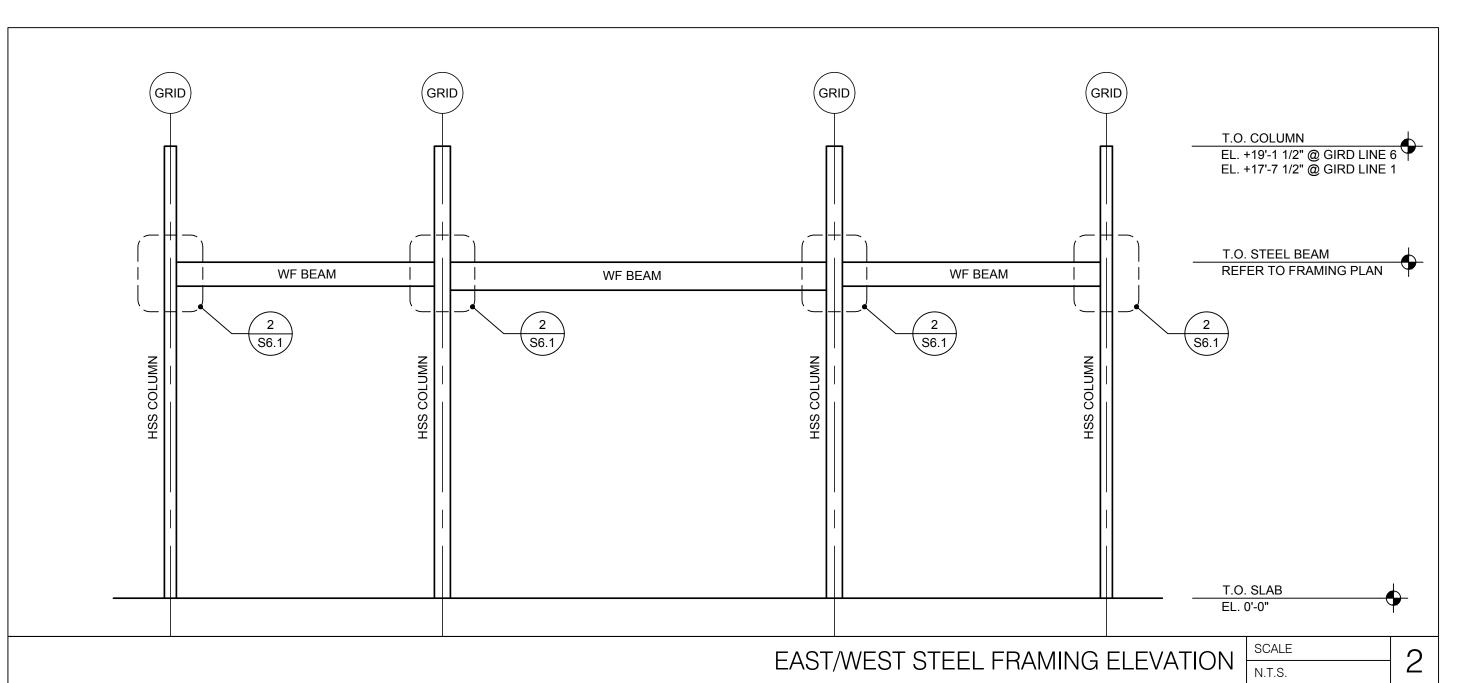
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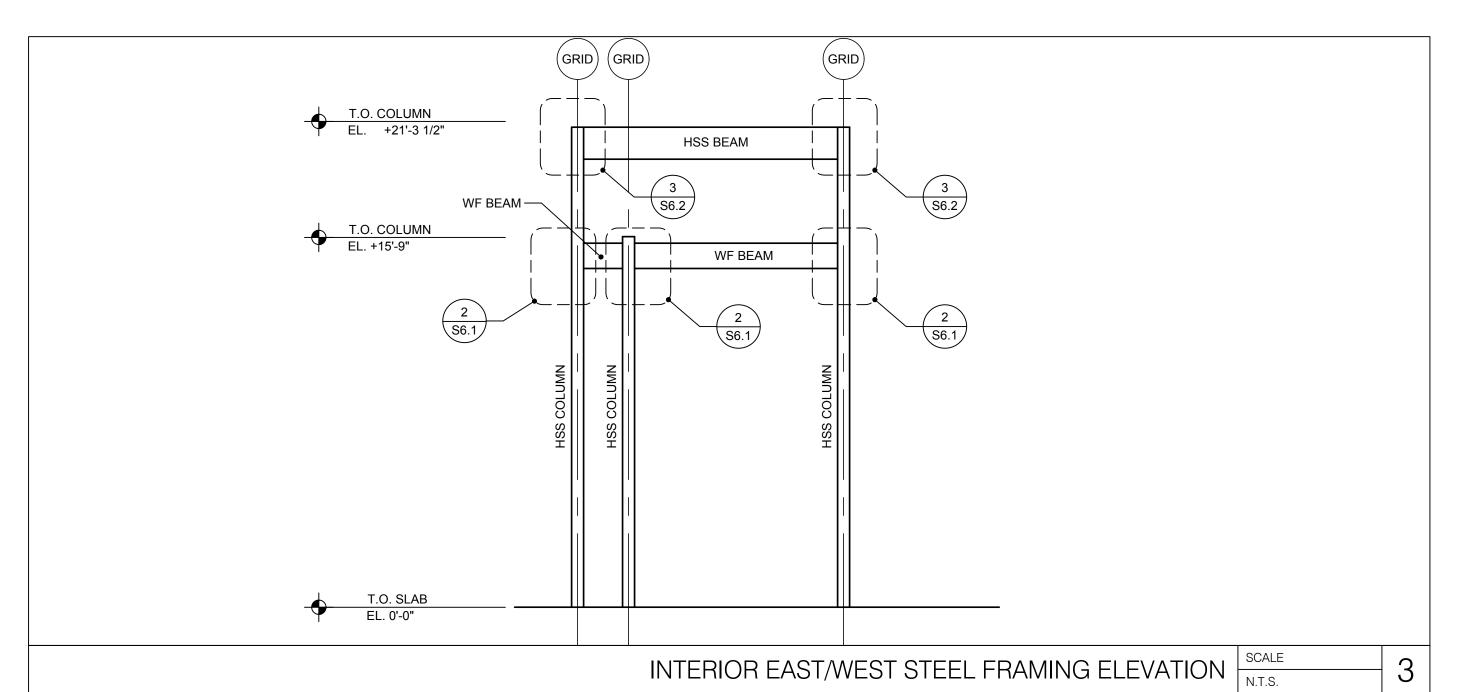
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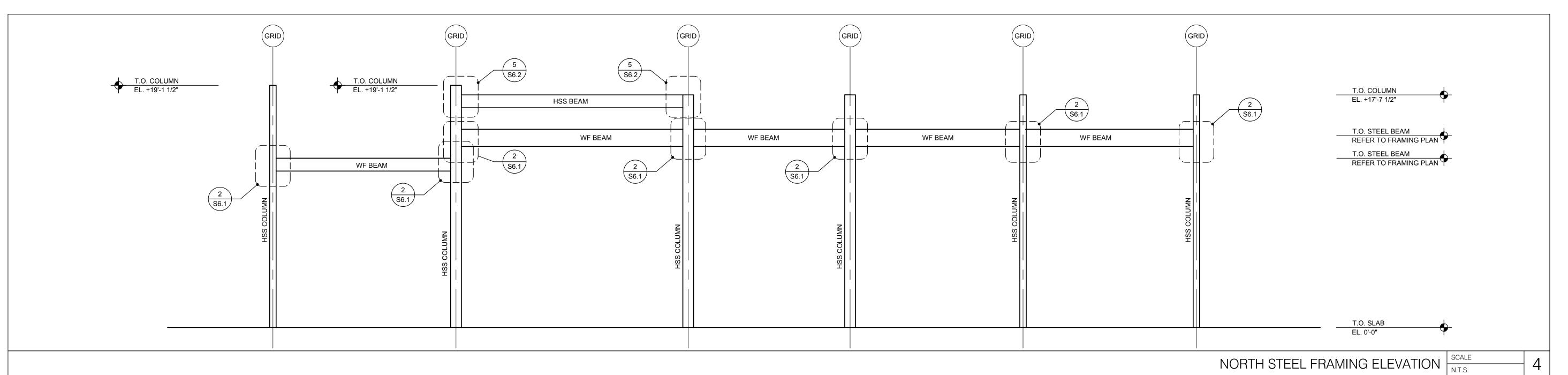
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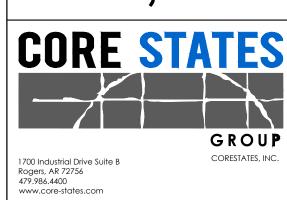




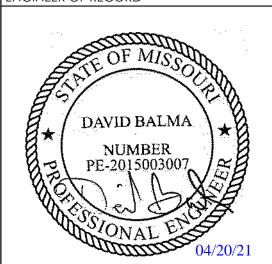




MORGAN CHASE, N
HWY 291 & NE LANGSFORD R
890 NE LANGSFORD RD



ENGINEER OF RECORD



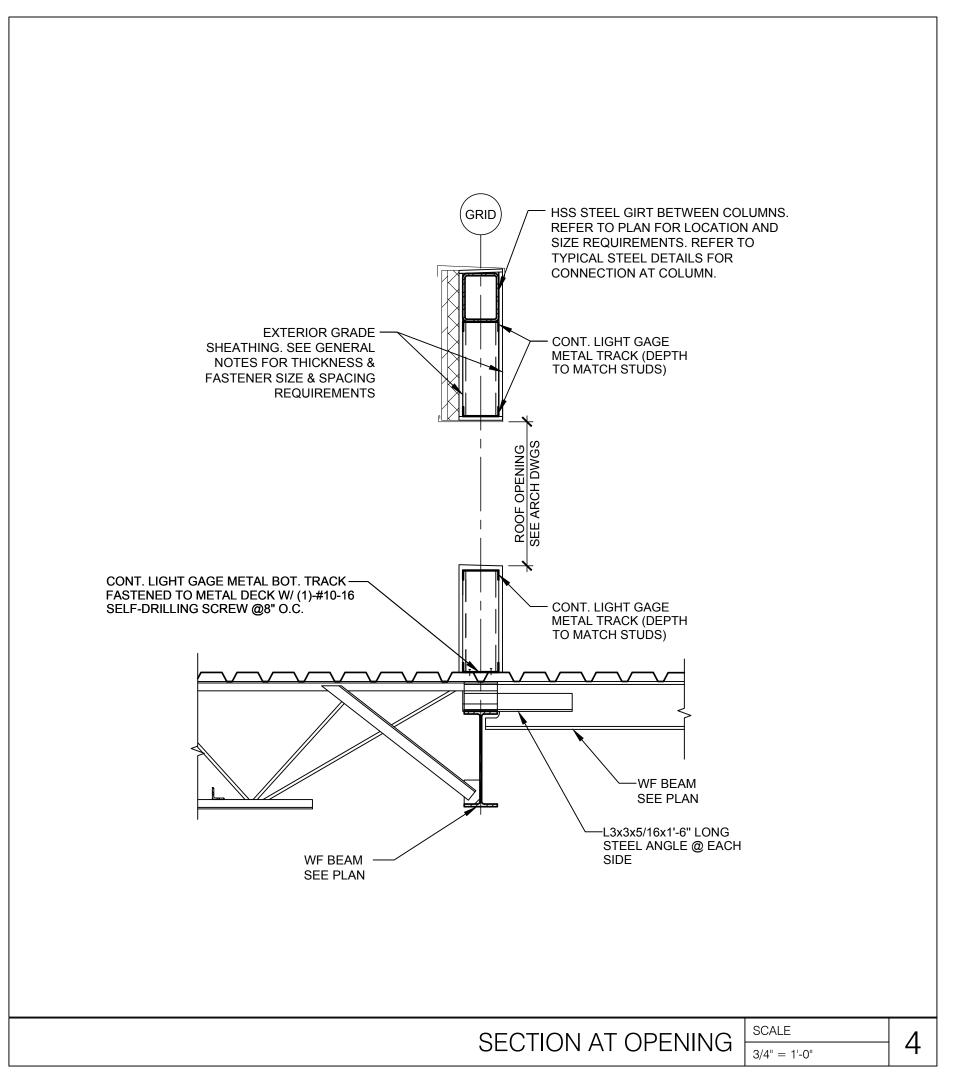
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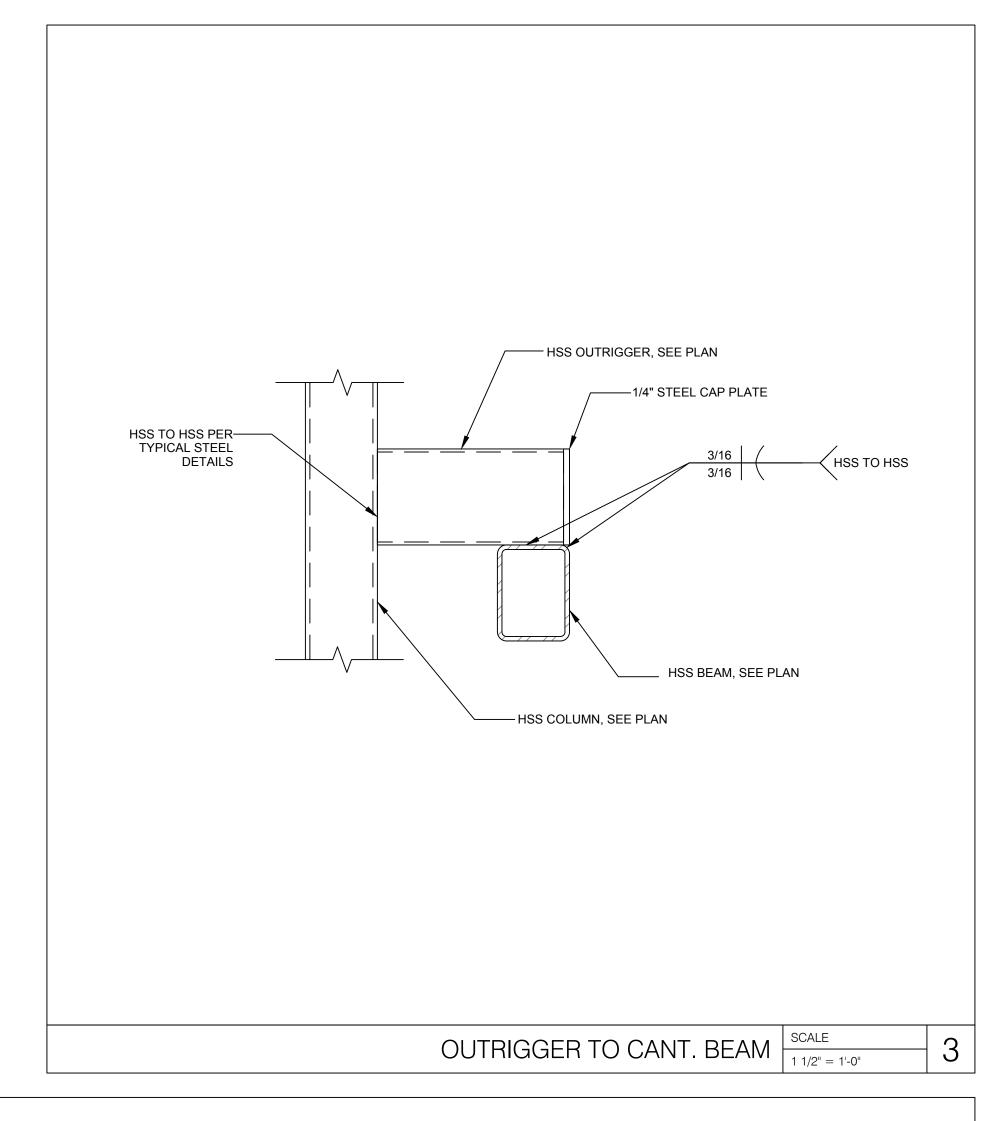
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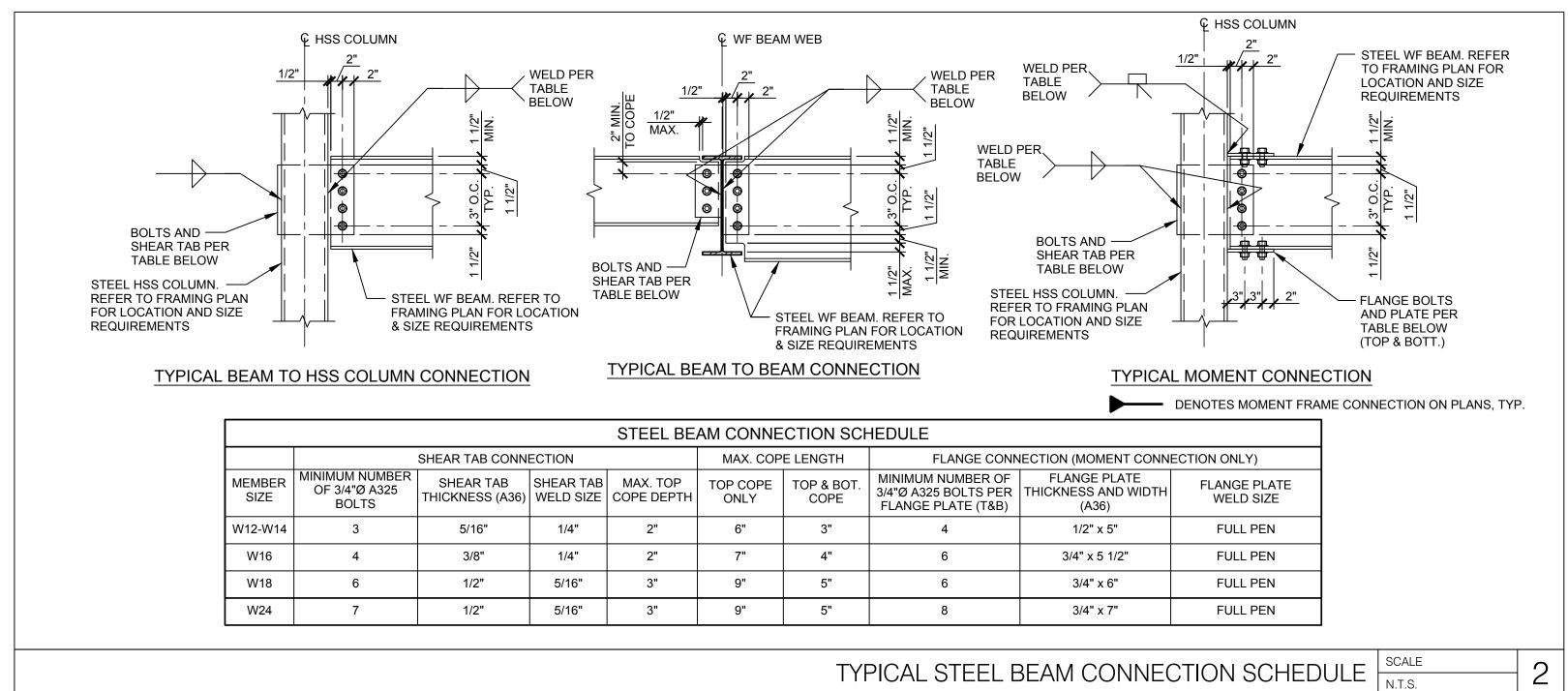
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PRO.	JECT INFO	ORMATION
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DA	TE:	2020.12.2
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СН	ECKED BY:	E.SCALGIONI
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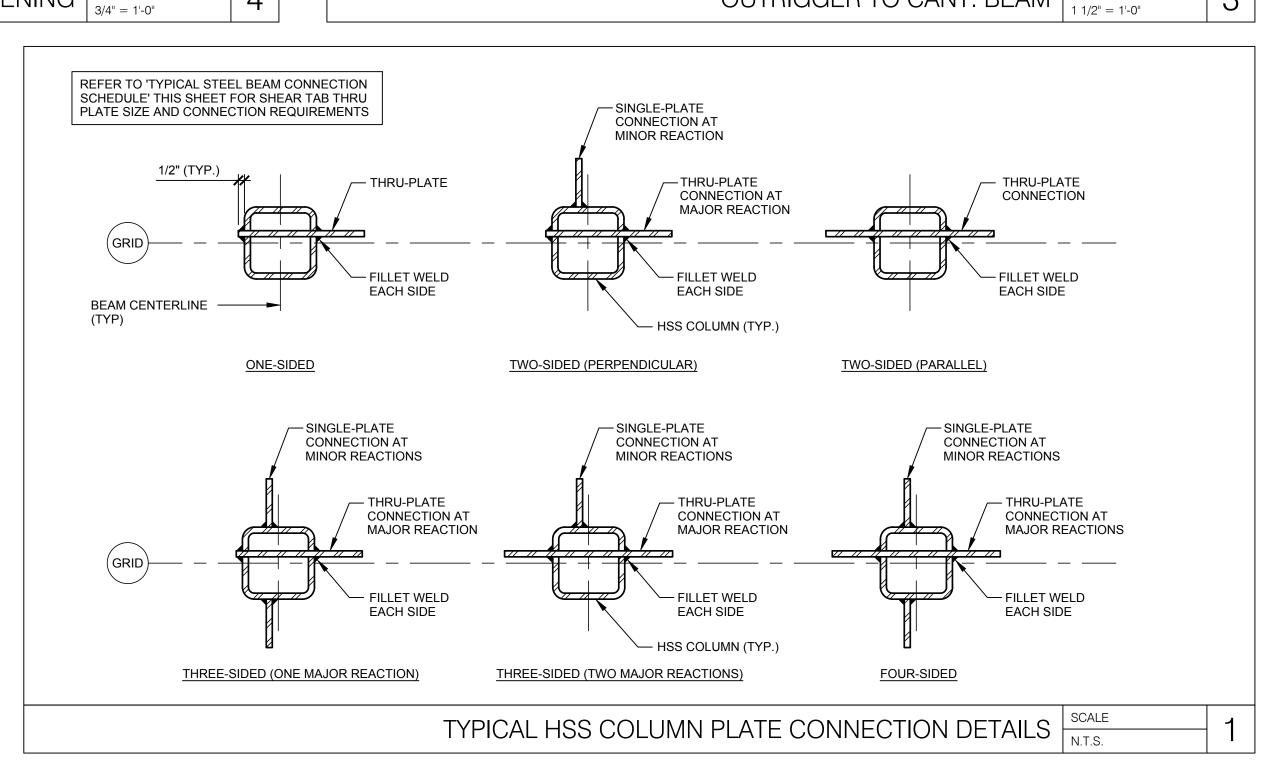
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SHEET NUMBER



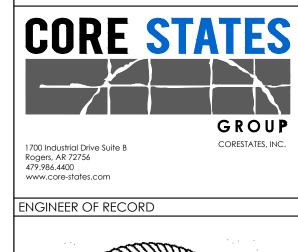


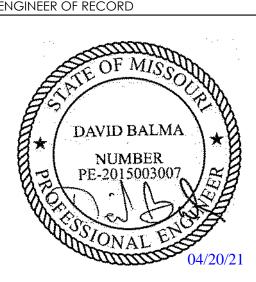












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DATE	DESCRIPTION
2020.12.21	PERMIT SET
2021.04.20	STRUCTURAL STEEL REV
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	31(10) (1101)
DJECT NO:	JPM.27135.001
TE:	2020.12.21
OTOTYPE:	20.2
AWN BY:	J.PEREZ
	JECT INFO DJECT NO: TE: DTOTYPE:

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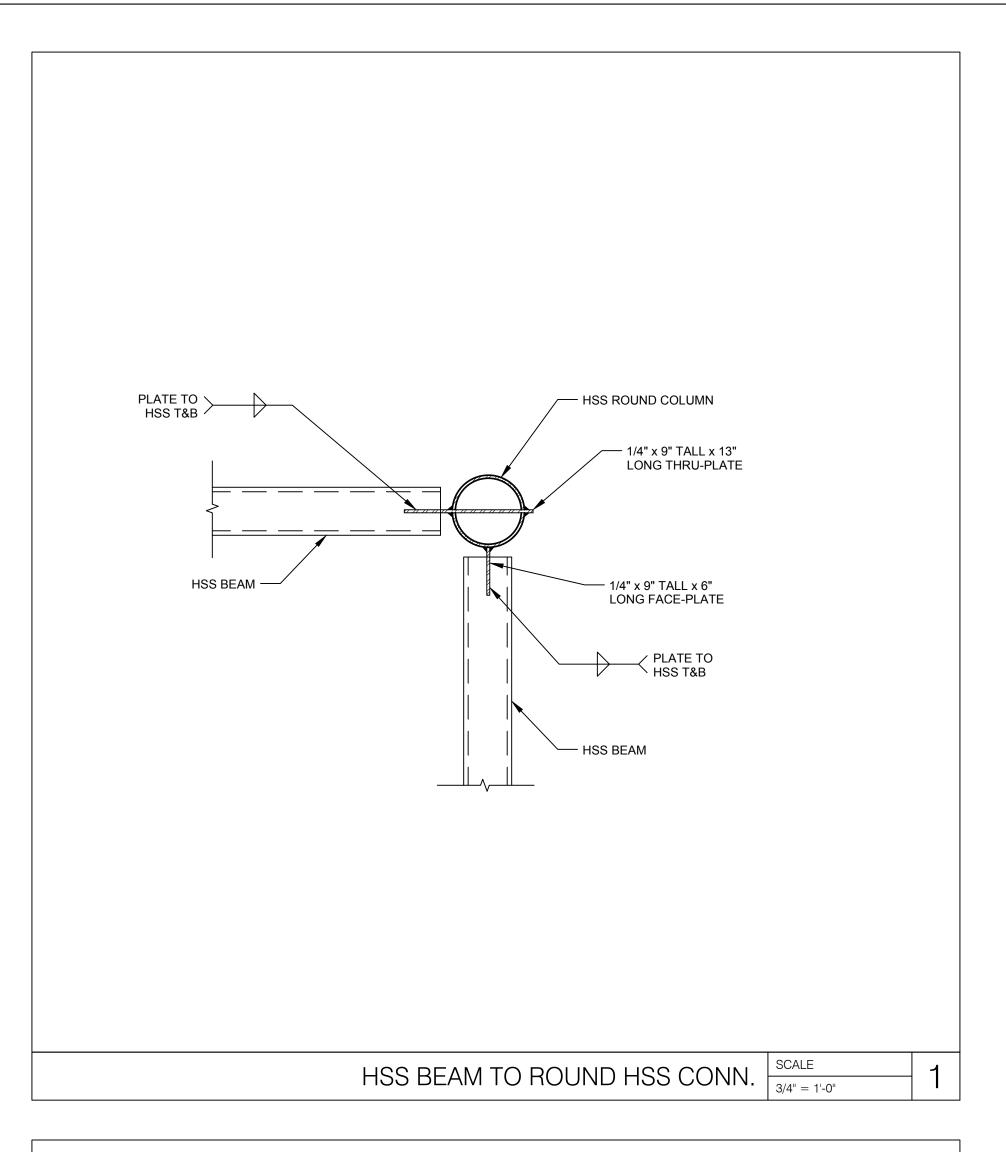
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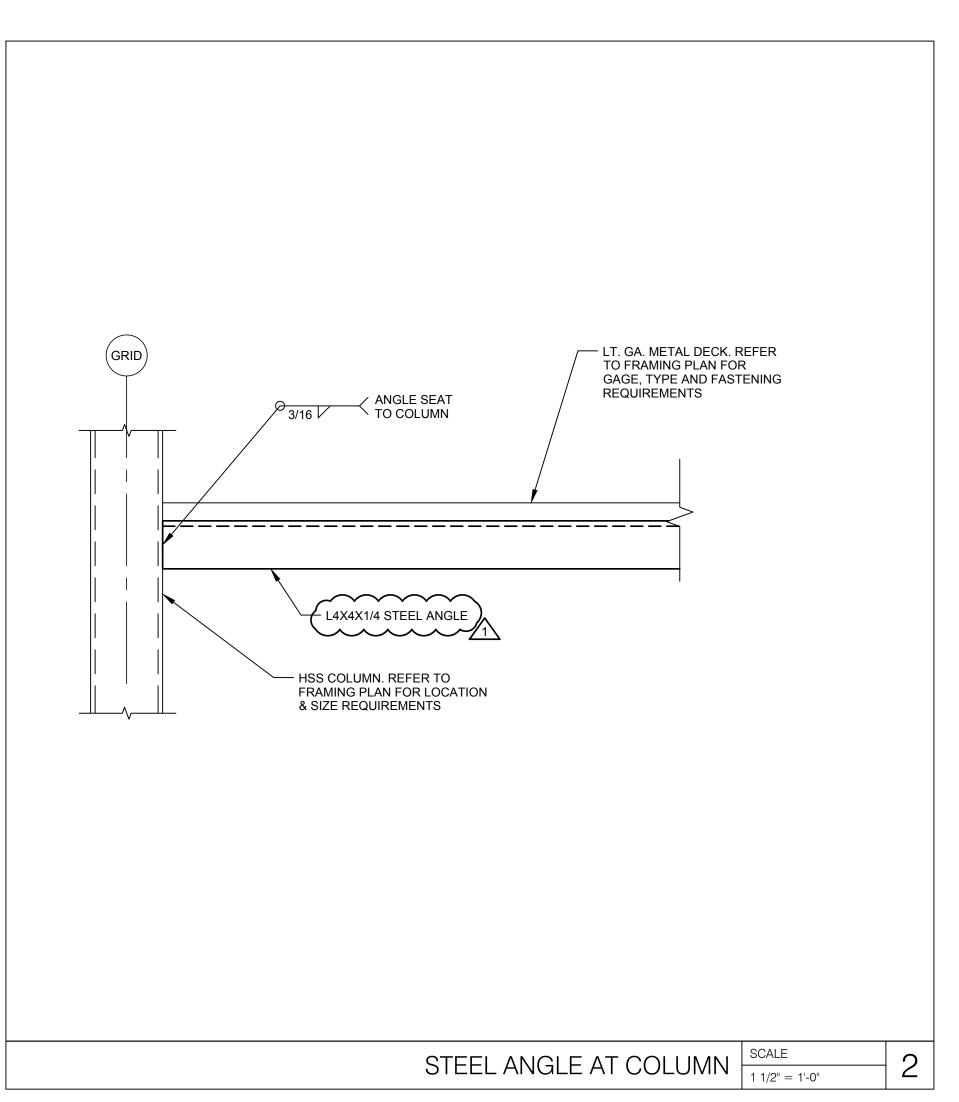
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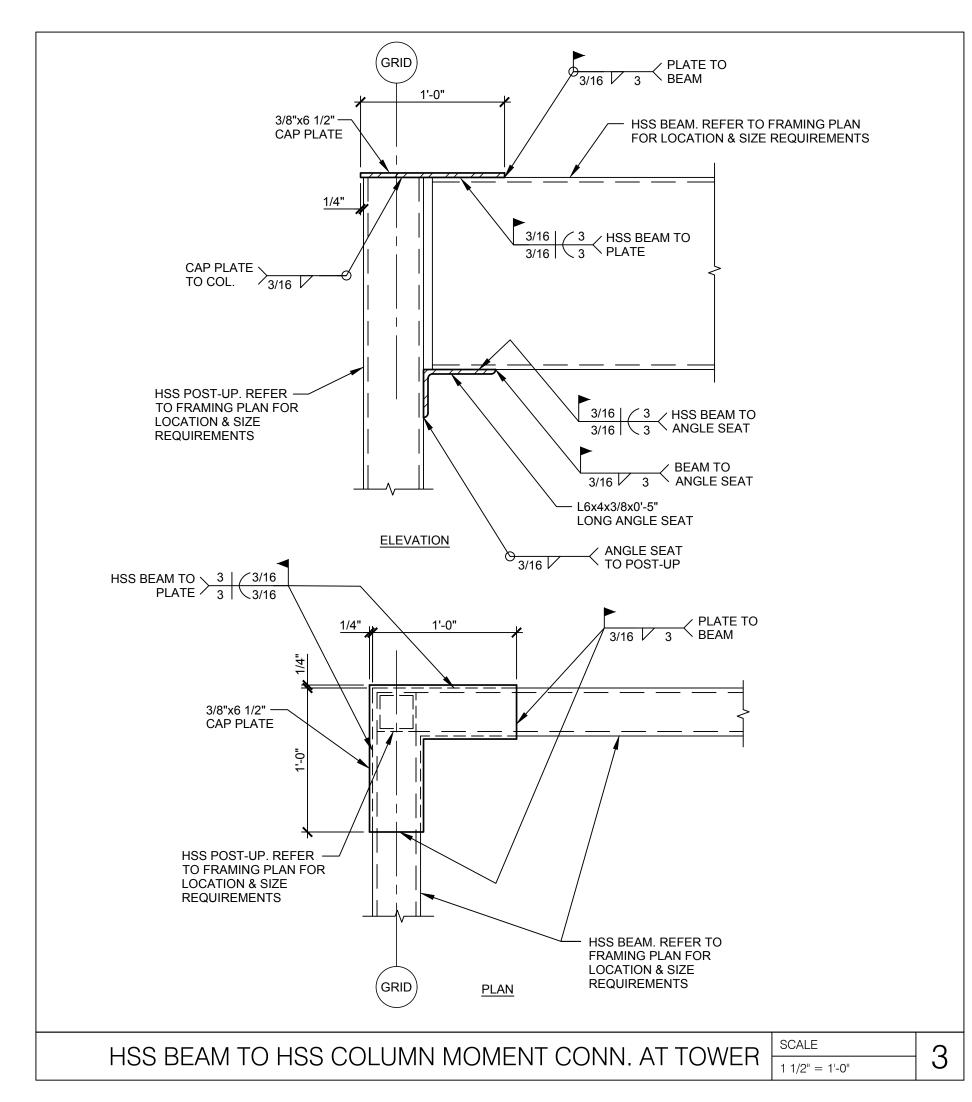
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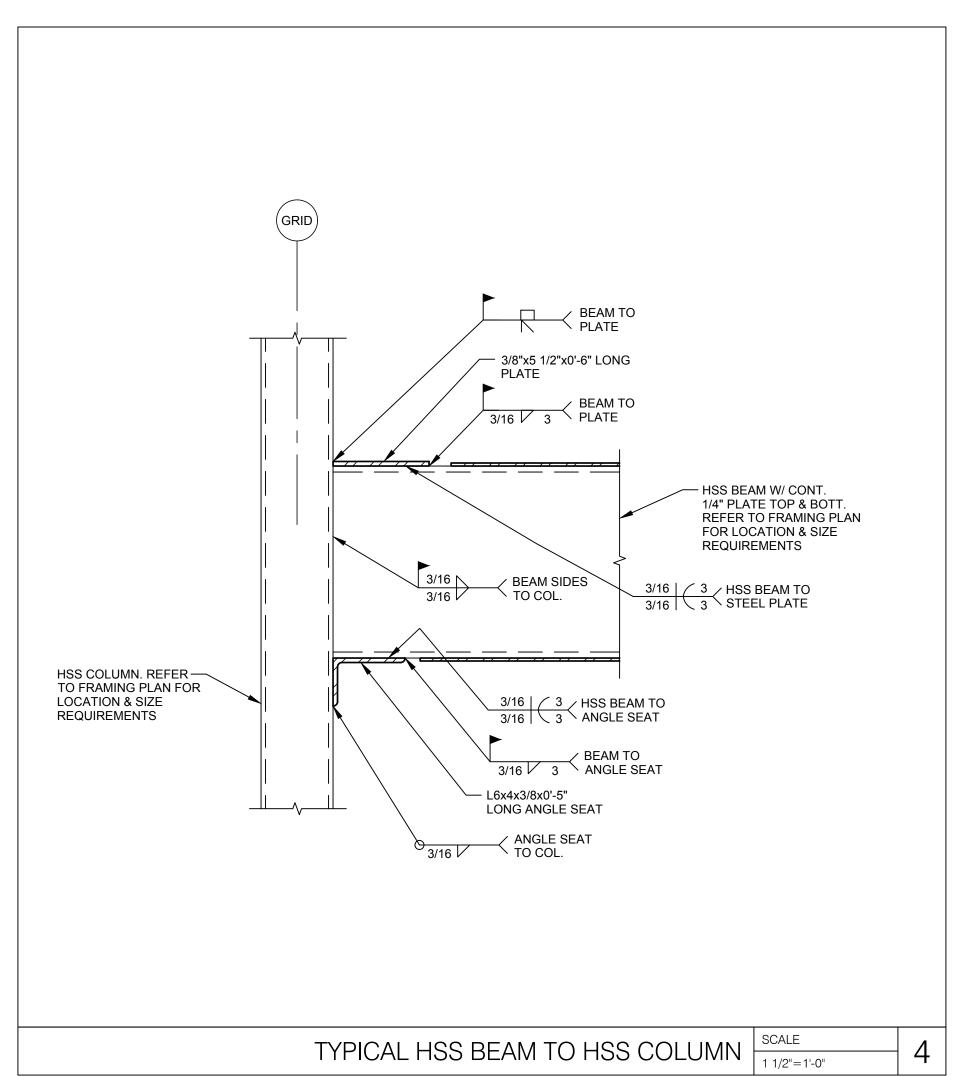
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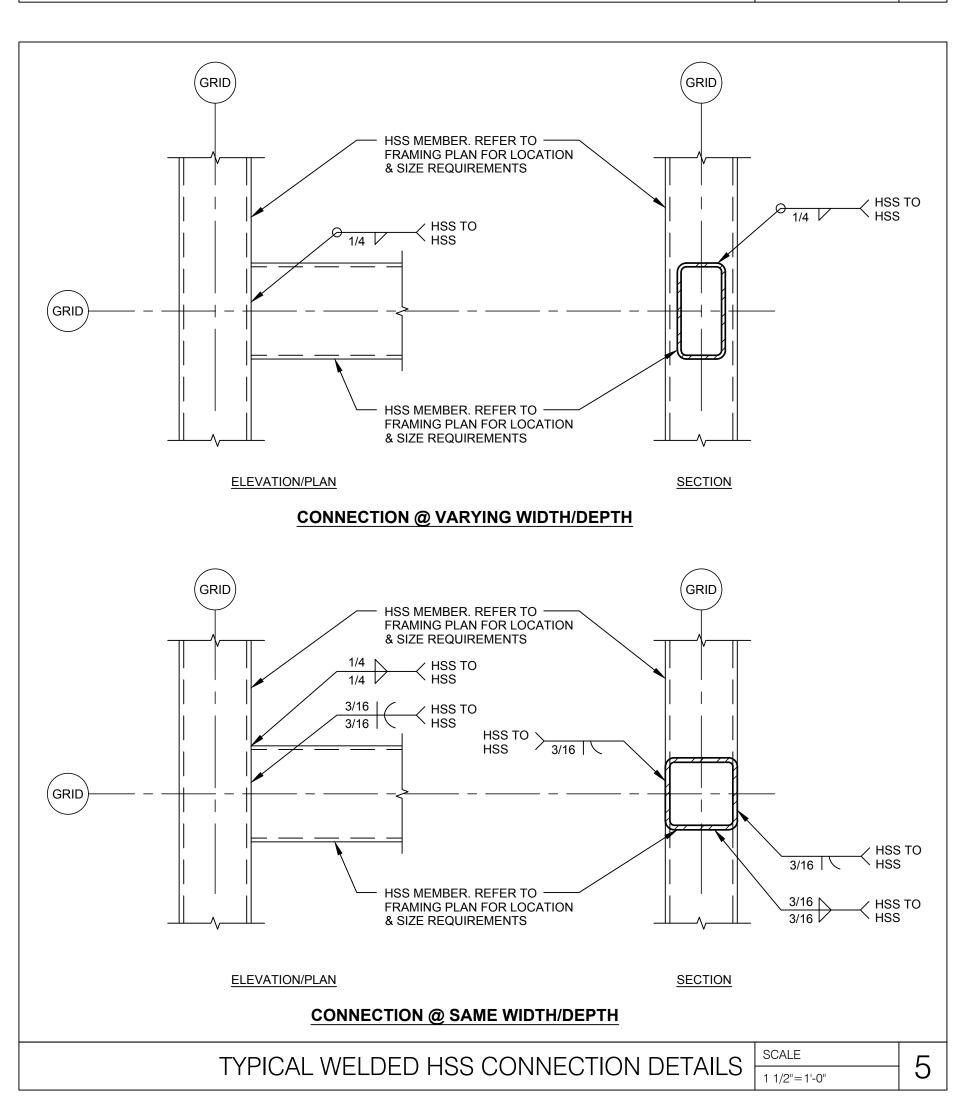
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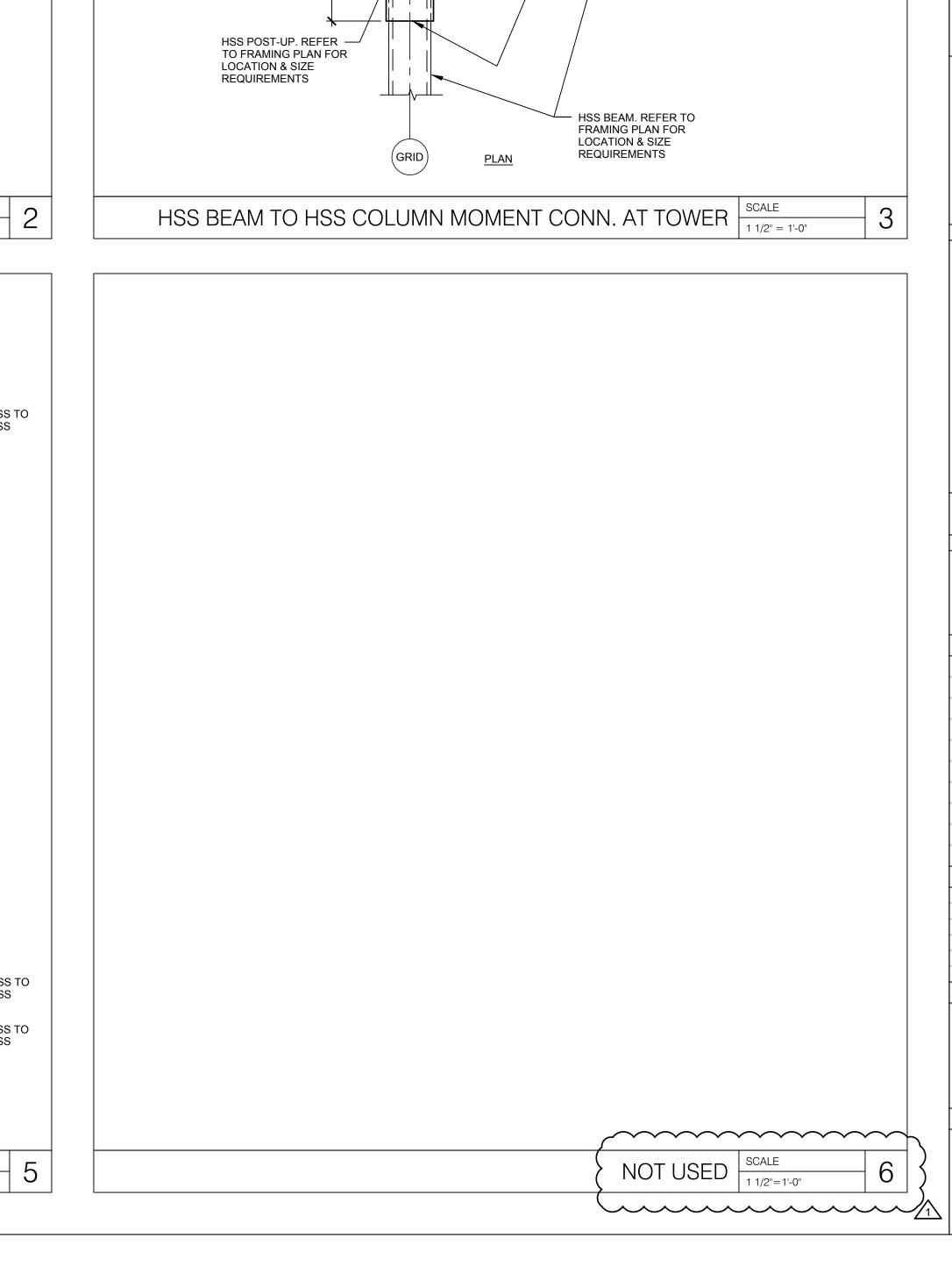








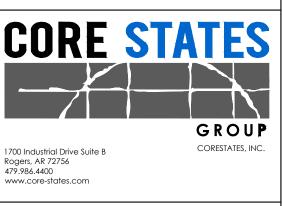


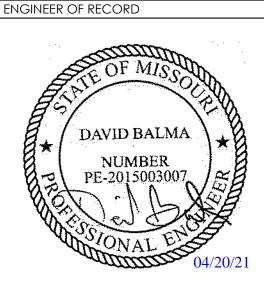






JP MORGAN CHASE, NHWY 291 & NE LANGSFORD F





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ISSUE	DATE	DESCRIPTION		
-	2020.12.21	PERMIT SET		
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PROJECT INFORMATION				
PRO	DJECT NO:	JPM.27135.001		
DATE:		2020.12.21		
PROTOTYPE:		20.2		

STEEL CONNECTION
DETAILS AND
SECTIONS

J.PEREZ

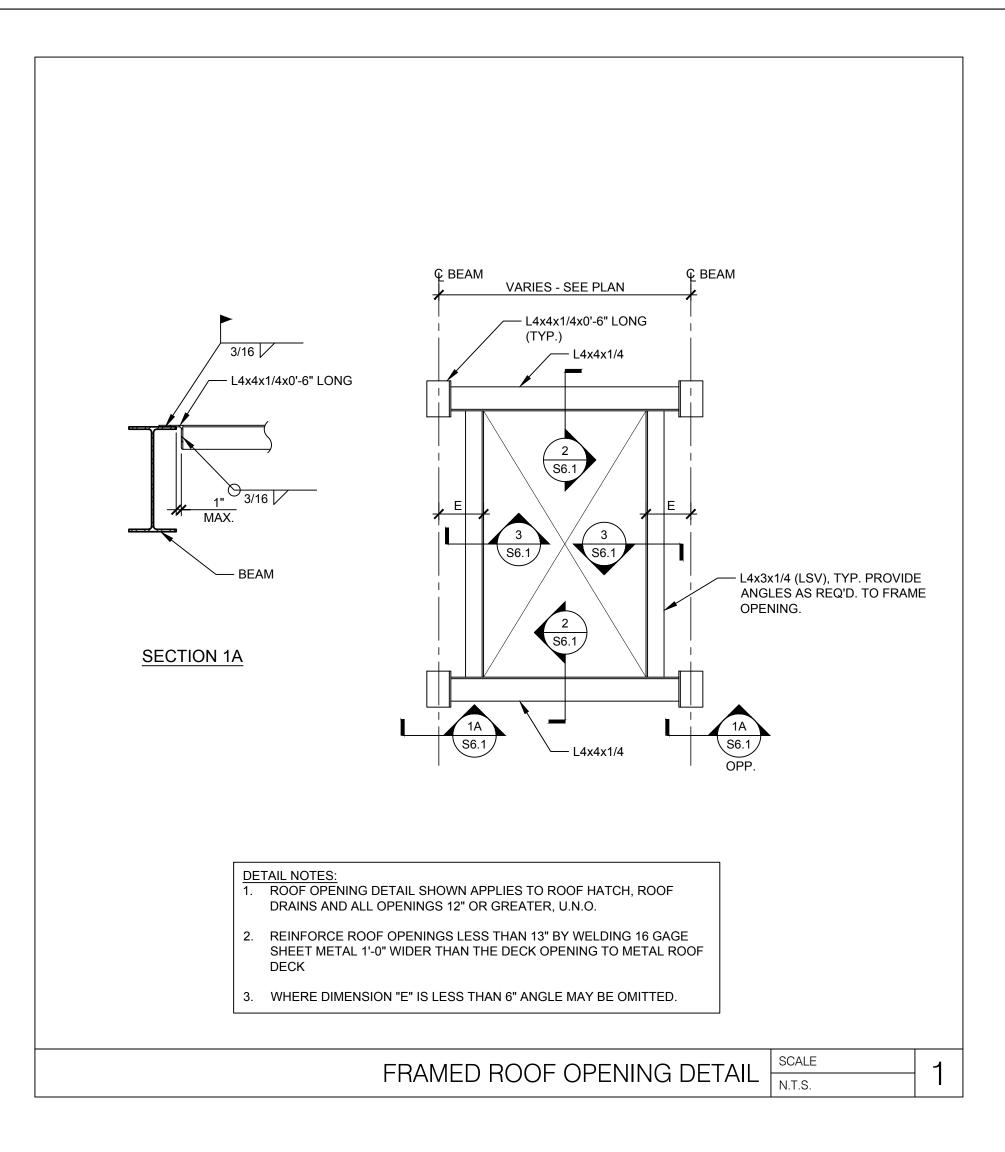
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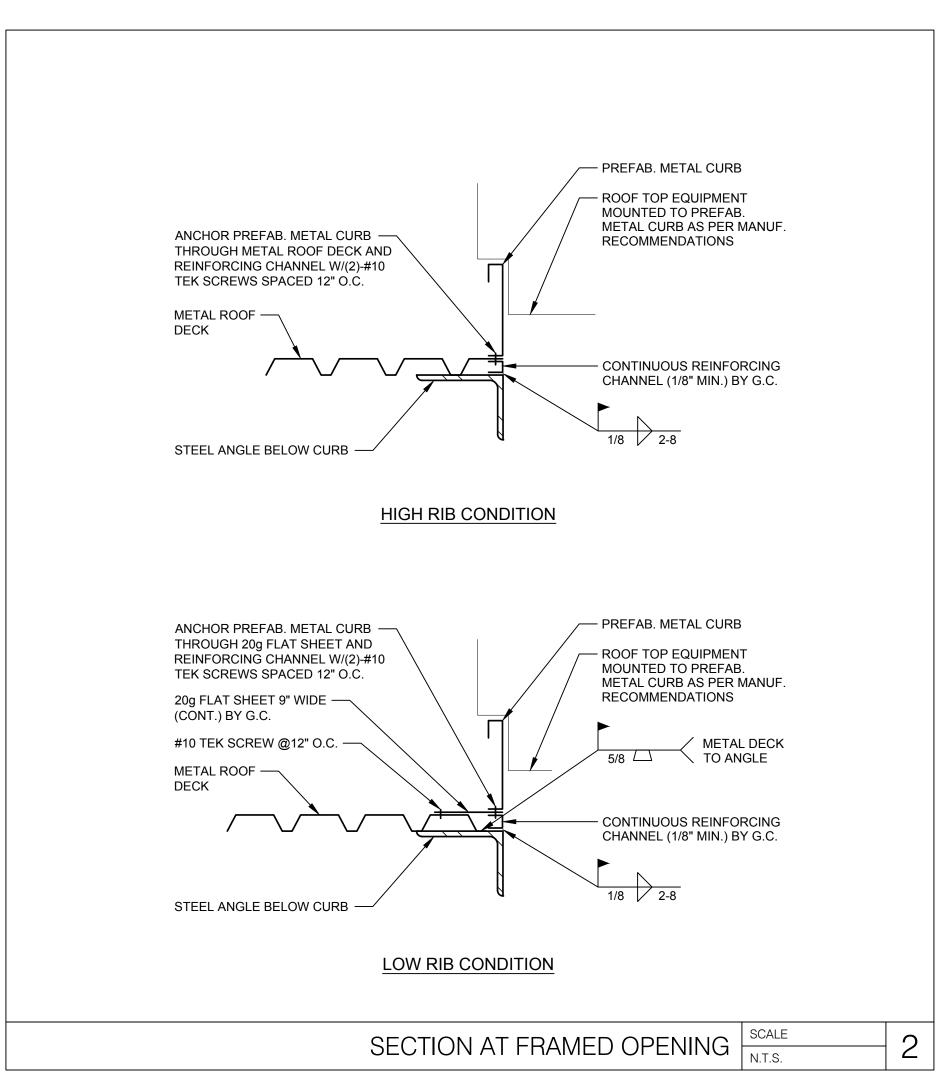
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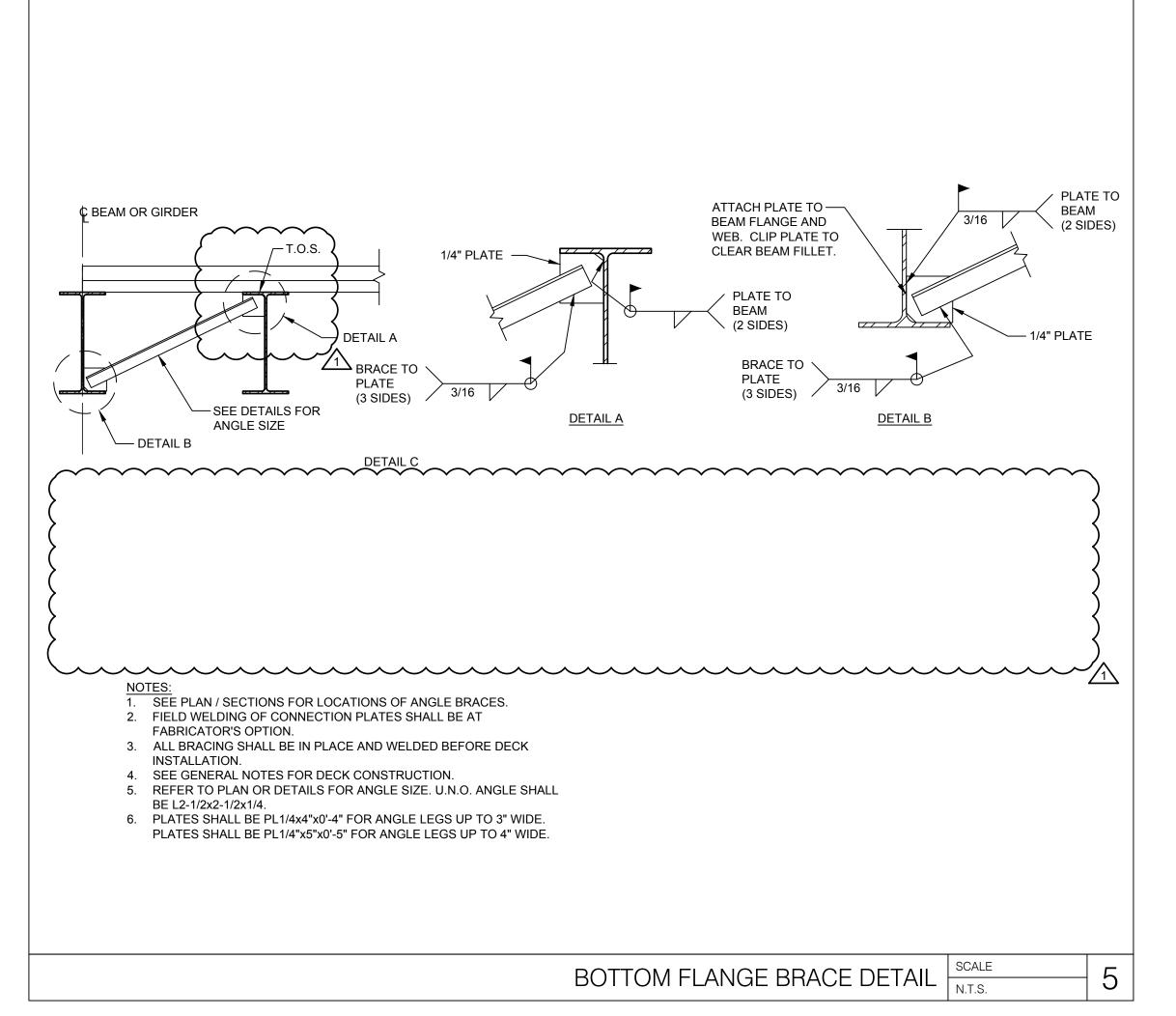
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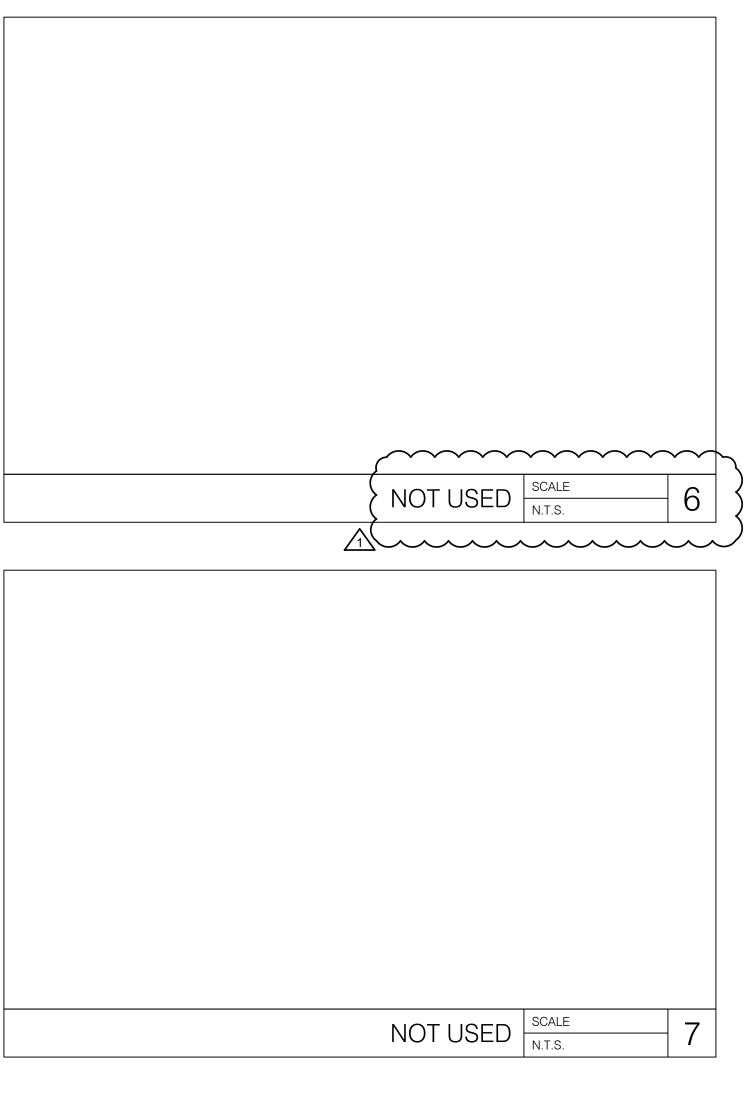
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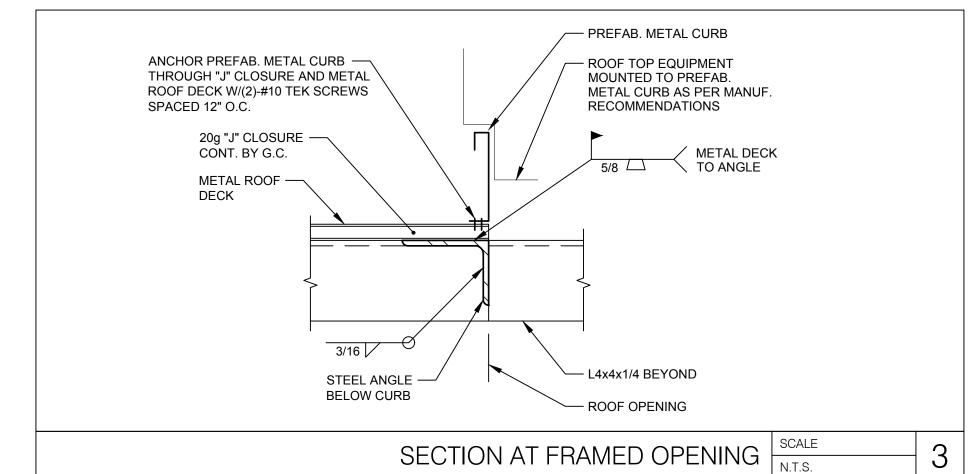
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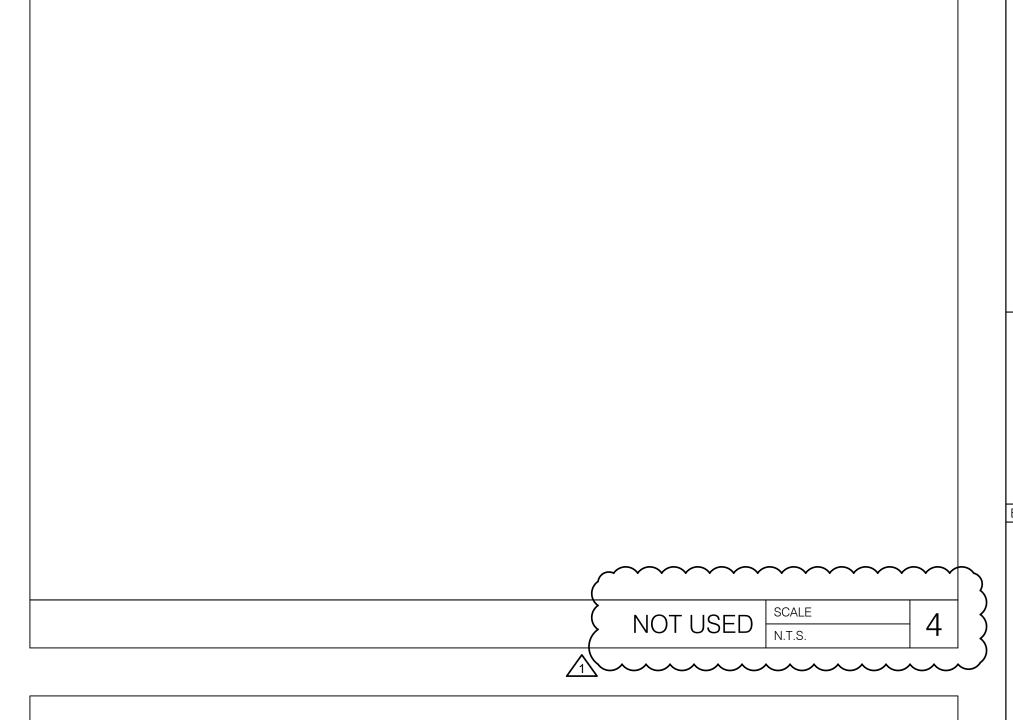


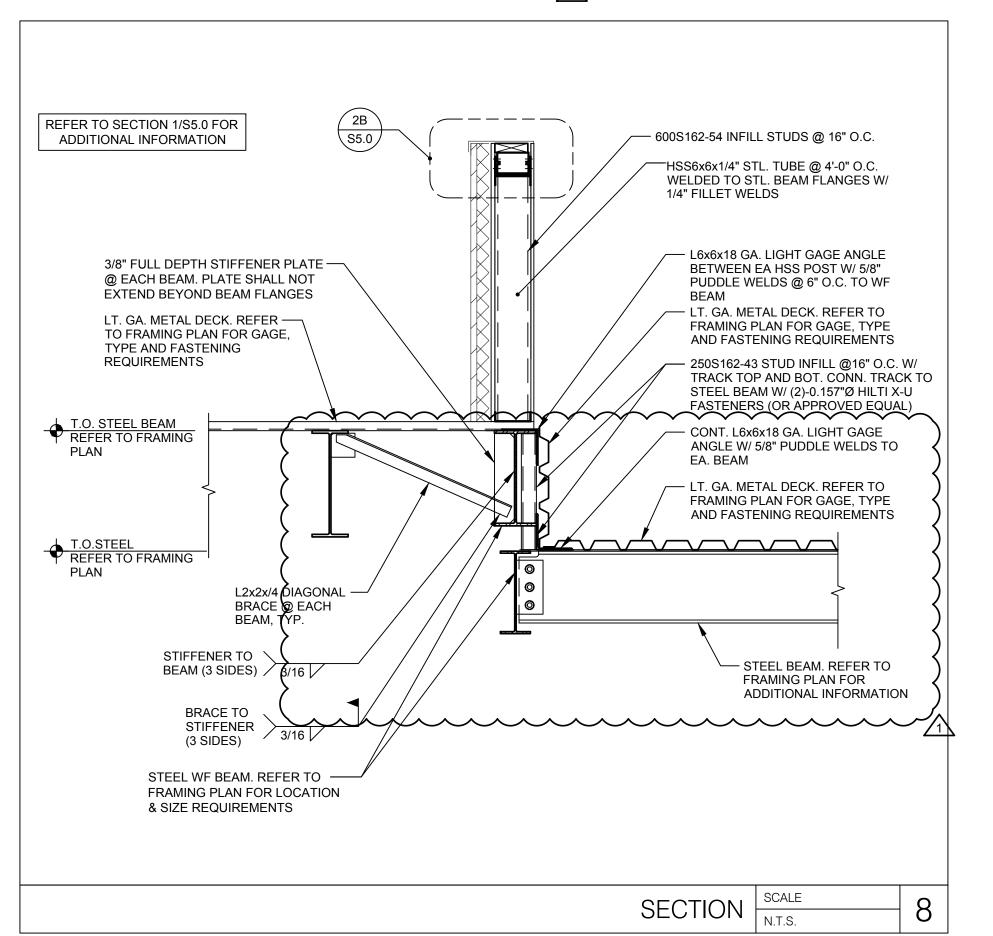






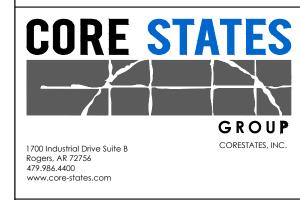


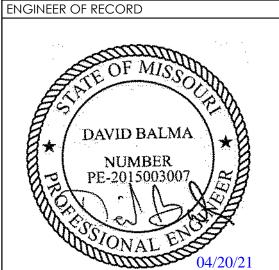












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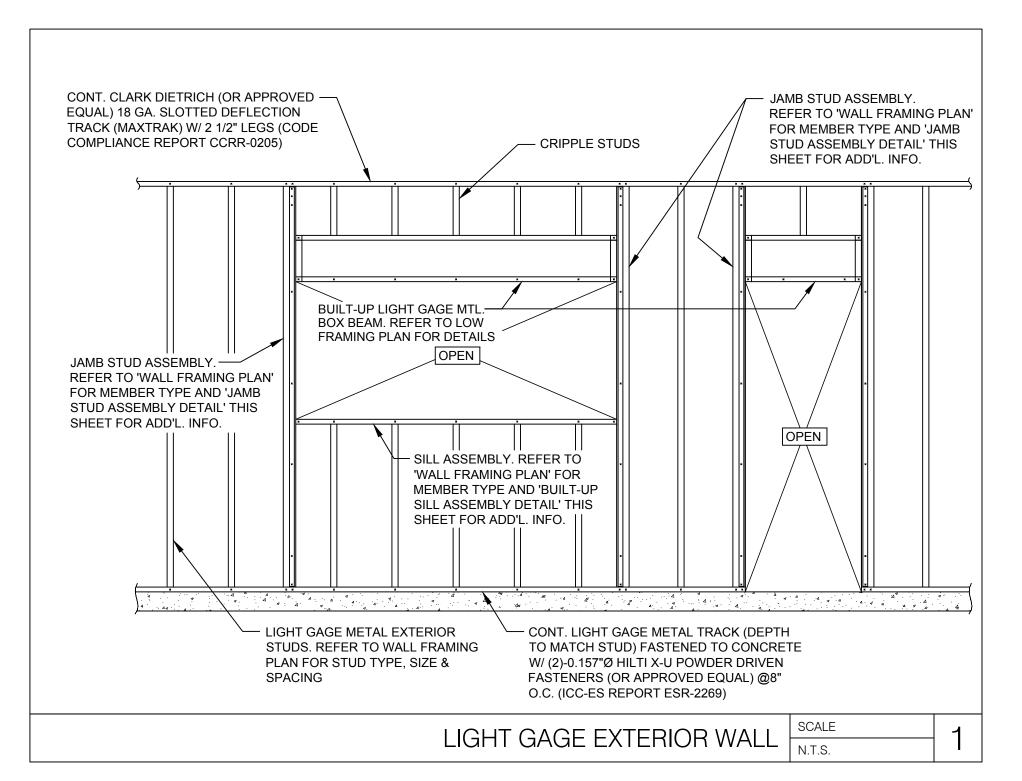
ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
1	2021.04.20	STRUCTURAL STEEL REV
PRO.	JECT INFO	DRMATION
PR	OJECT NO:	JPM.27135.001
DA	TE:	2020.12.21
PRO	OTOTYPE:	20.2
DR	AWN BY:	J.PEREZ
СН	ECKED BY:	E.SCALGIONE

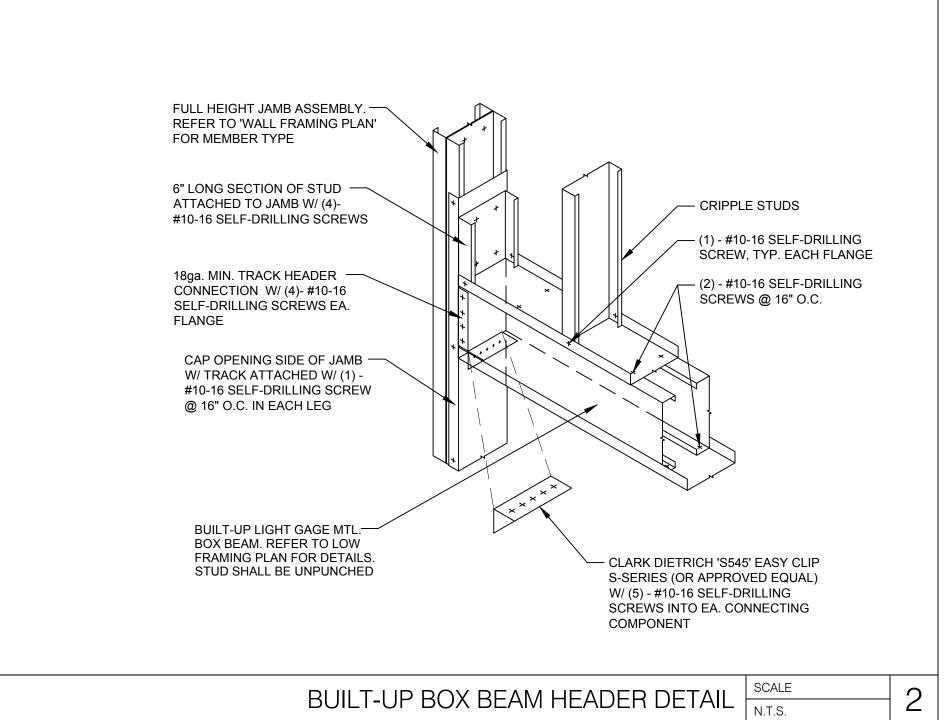
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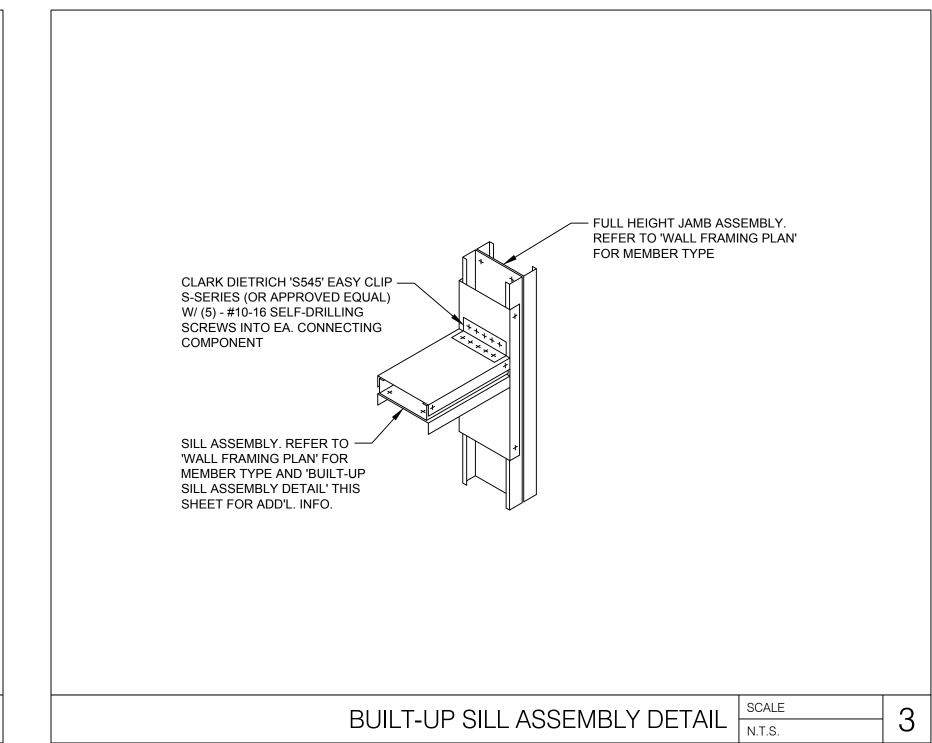
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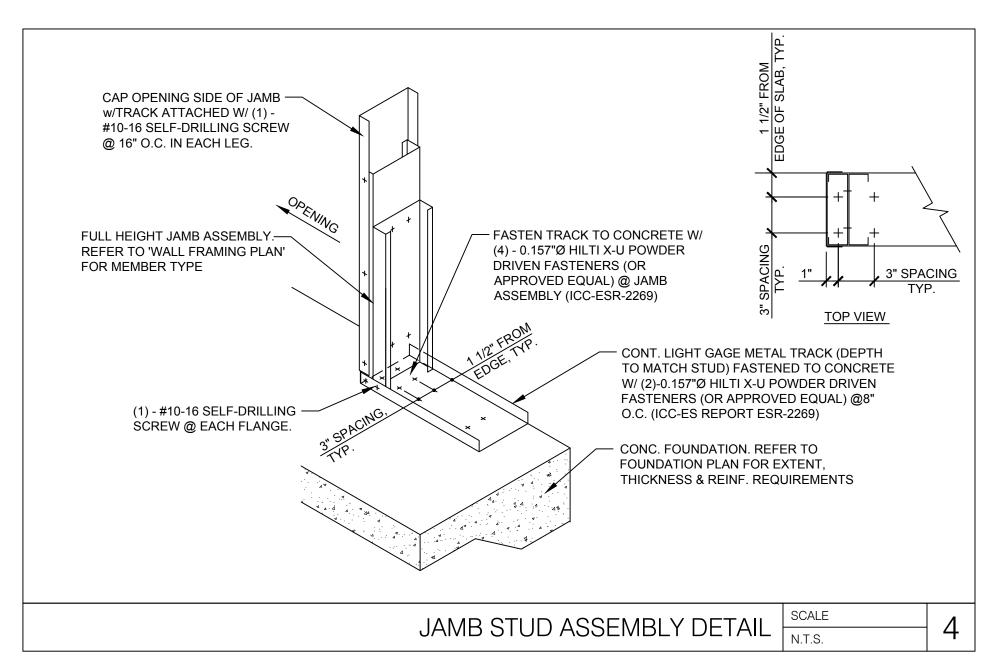
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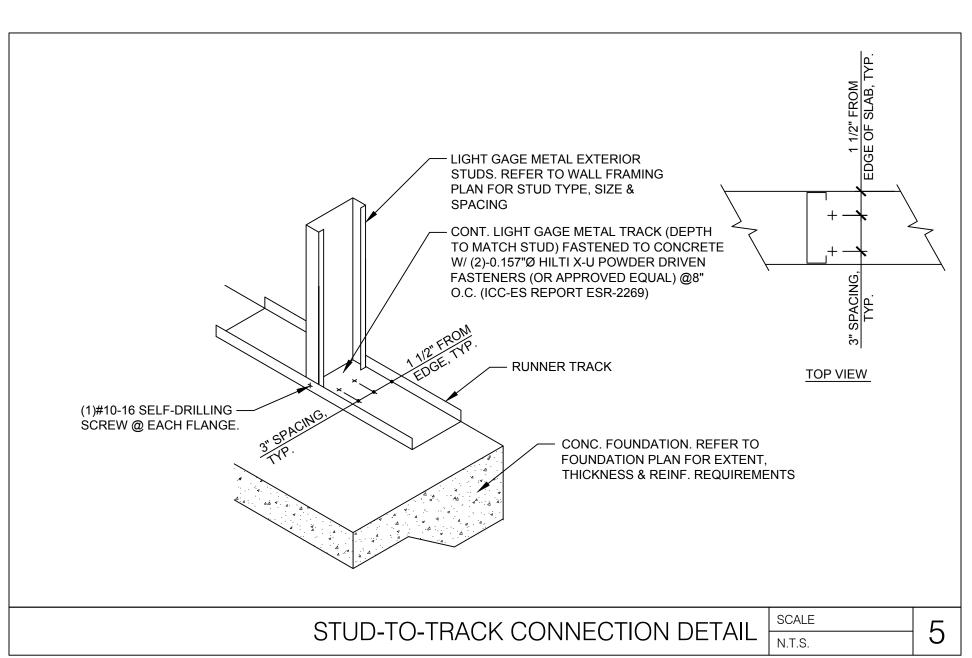
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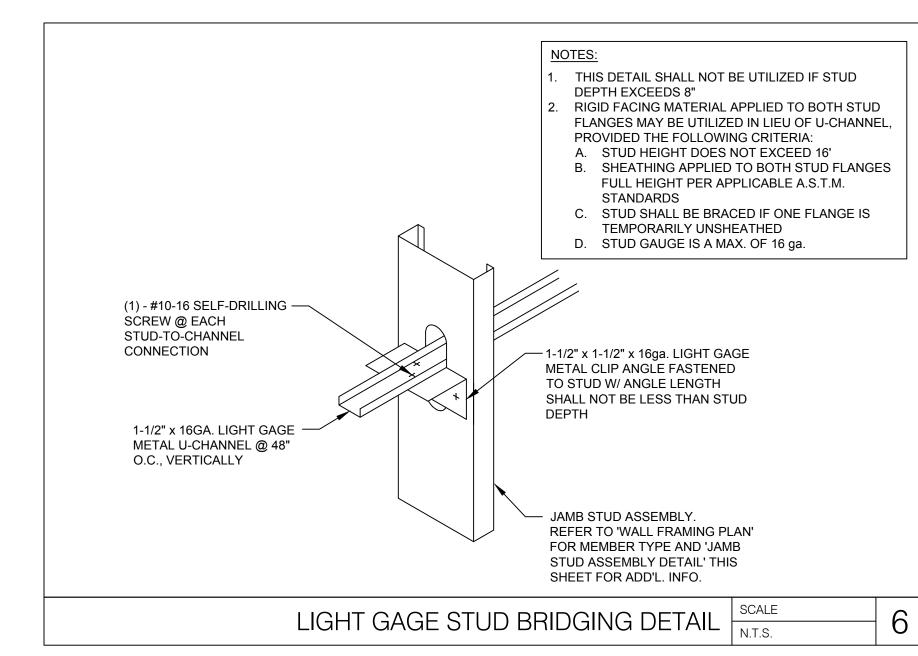


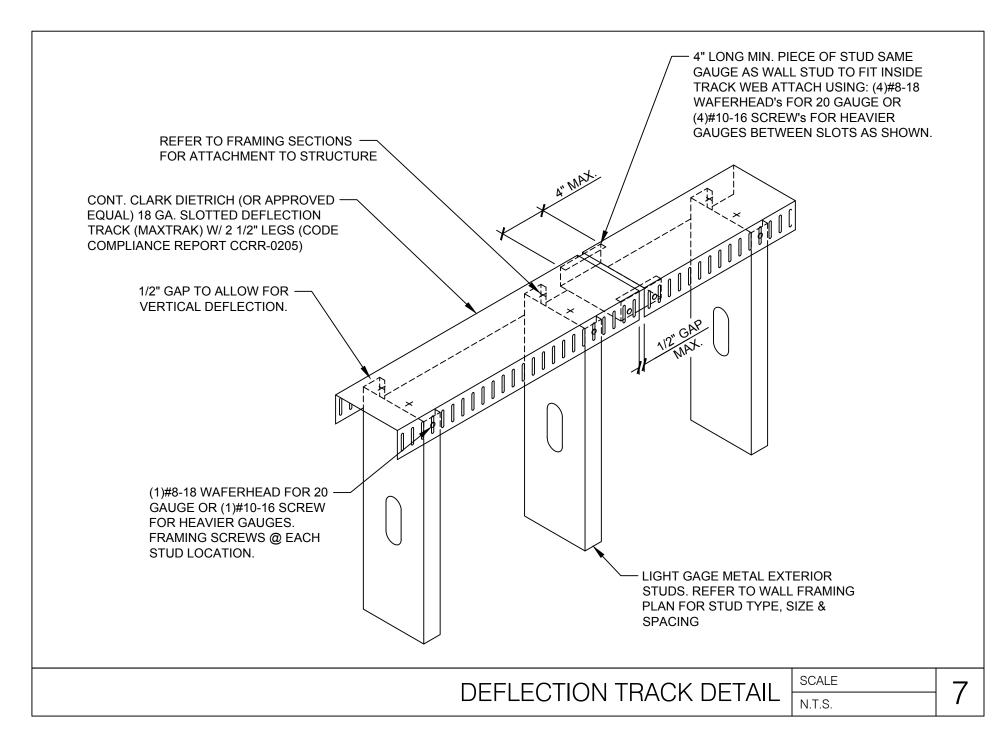


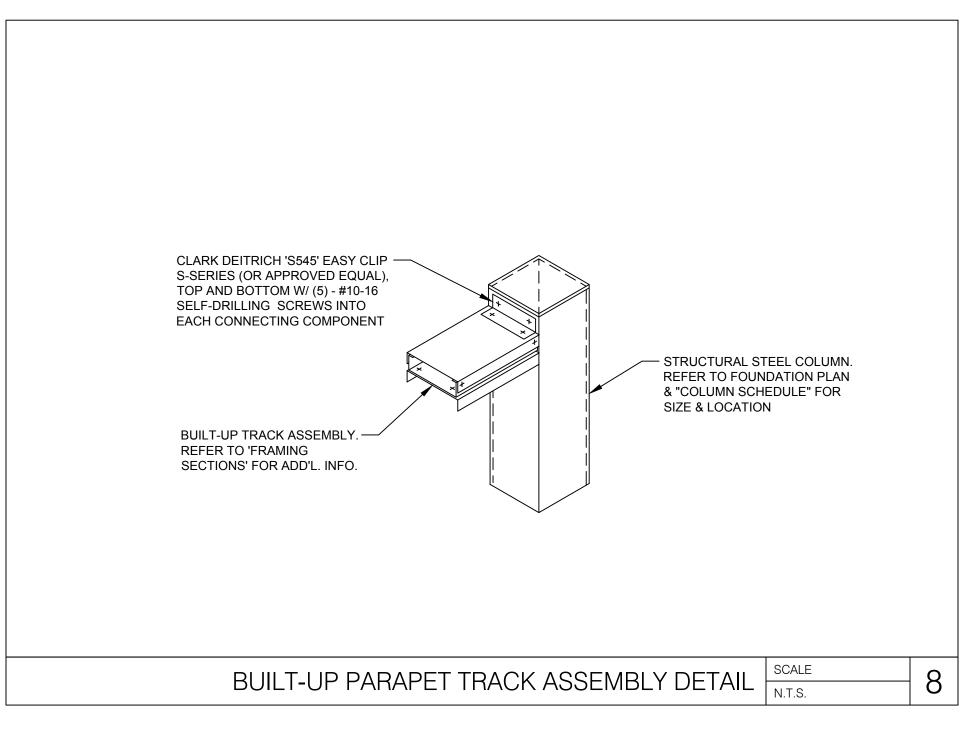


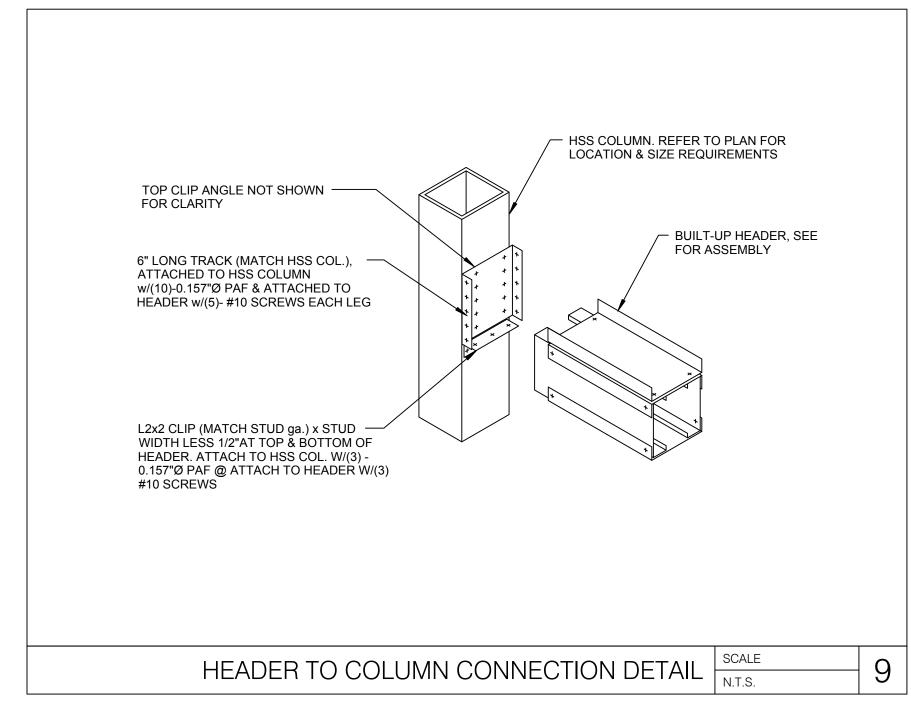








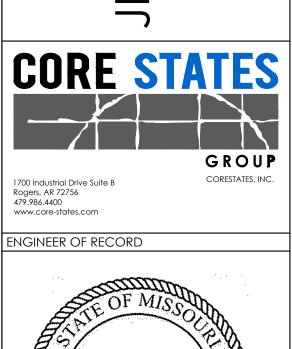








JP MORGAN CHASE, HWY 291 & NE LANGSFORD 890 NE LANGSFORD RD



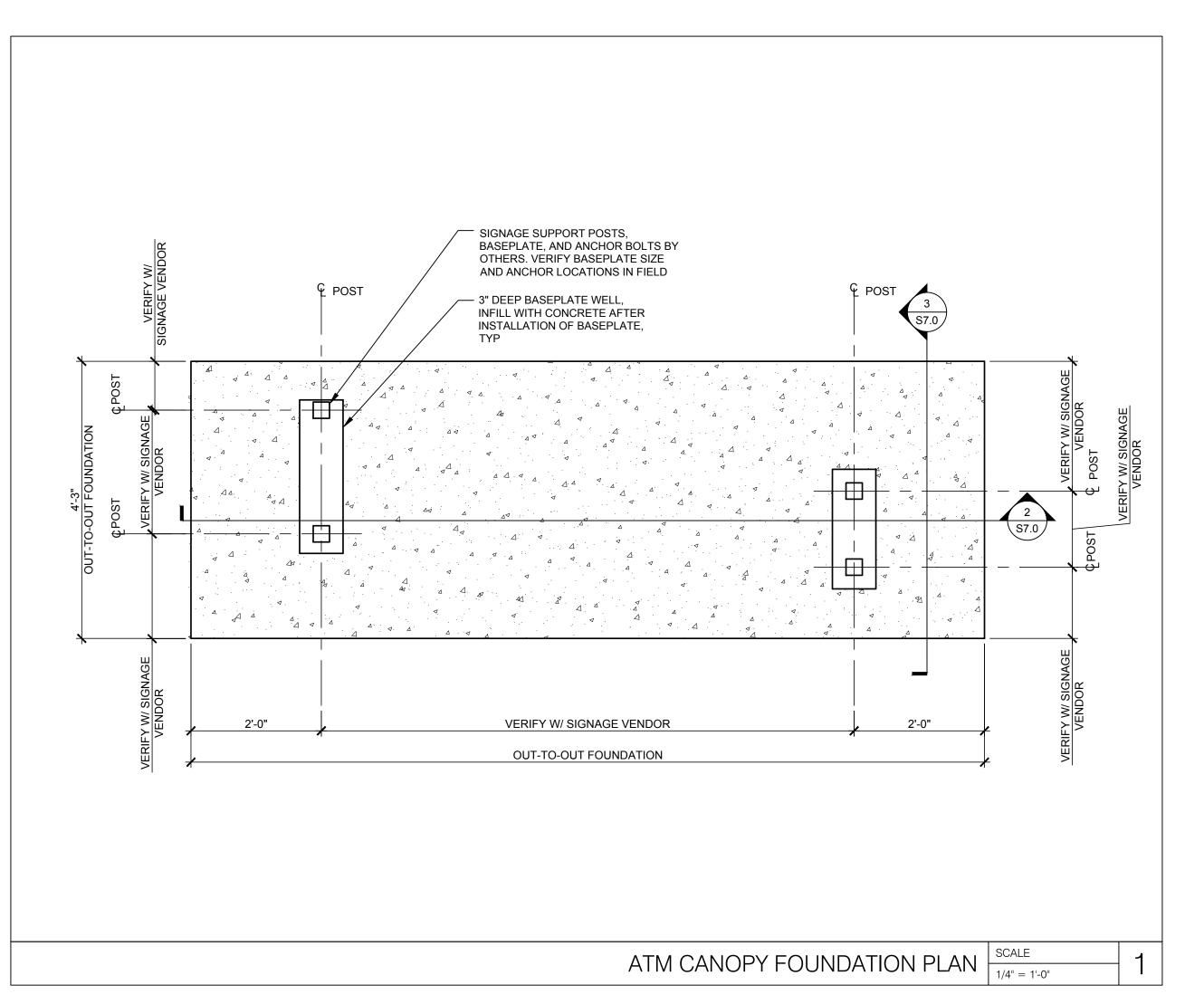
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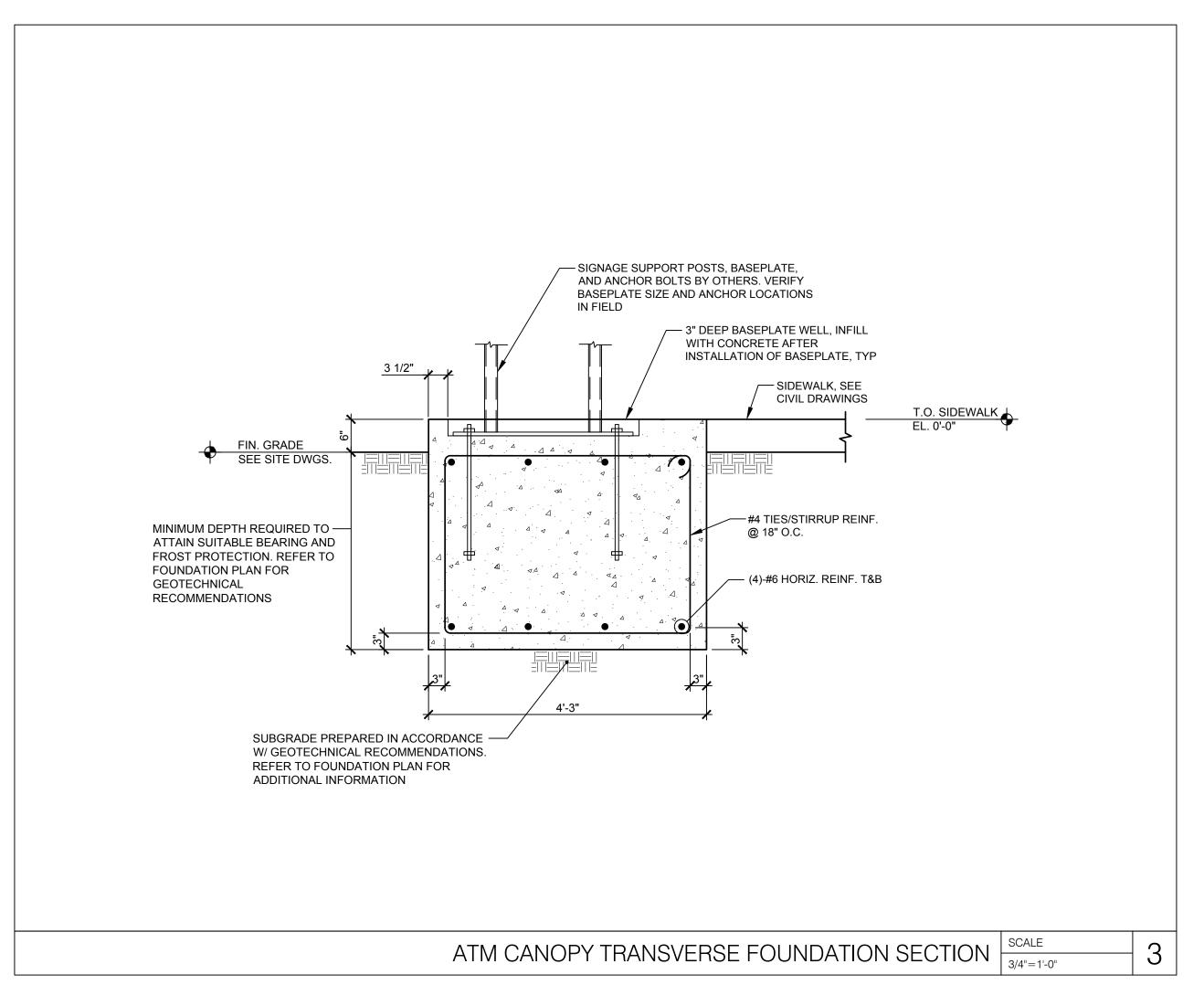
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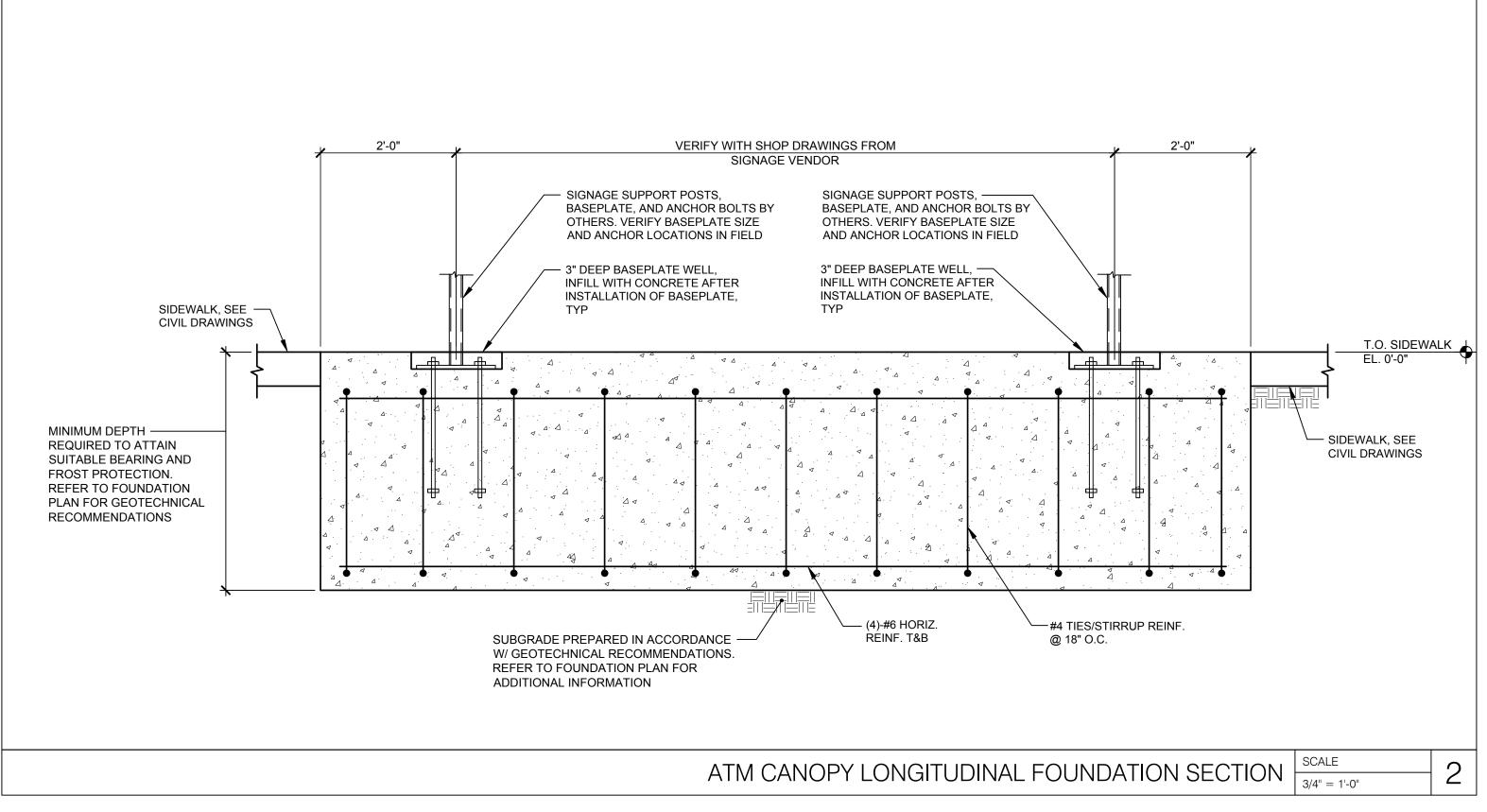
ISSUE	DATE	DESCRIPTION	
-	2020.12.21	PERMIT SET	
1	2021.04.20	STRUCTURAL STEEL REV	
PRO.	JECT INFO	ORMATION	
PRO	OJECT NO:	JPM.27135.001	
DA	TE:	2020.12.21	
PRO	OTOTYPE:	20.2	
DR.	AWN BY:	J.PEREZ	
СН	ECKED BY:	E.SCALGIONE	
VE	RSION:	SE_1.00	
SHEET TITLE			

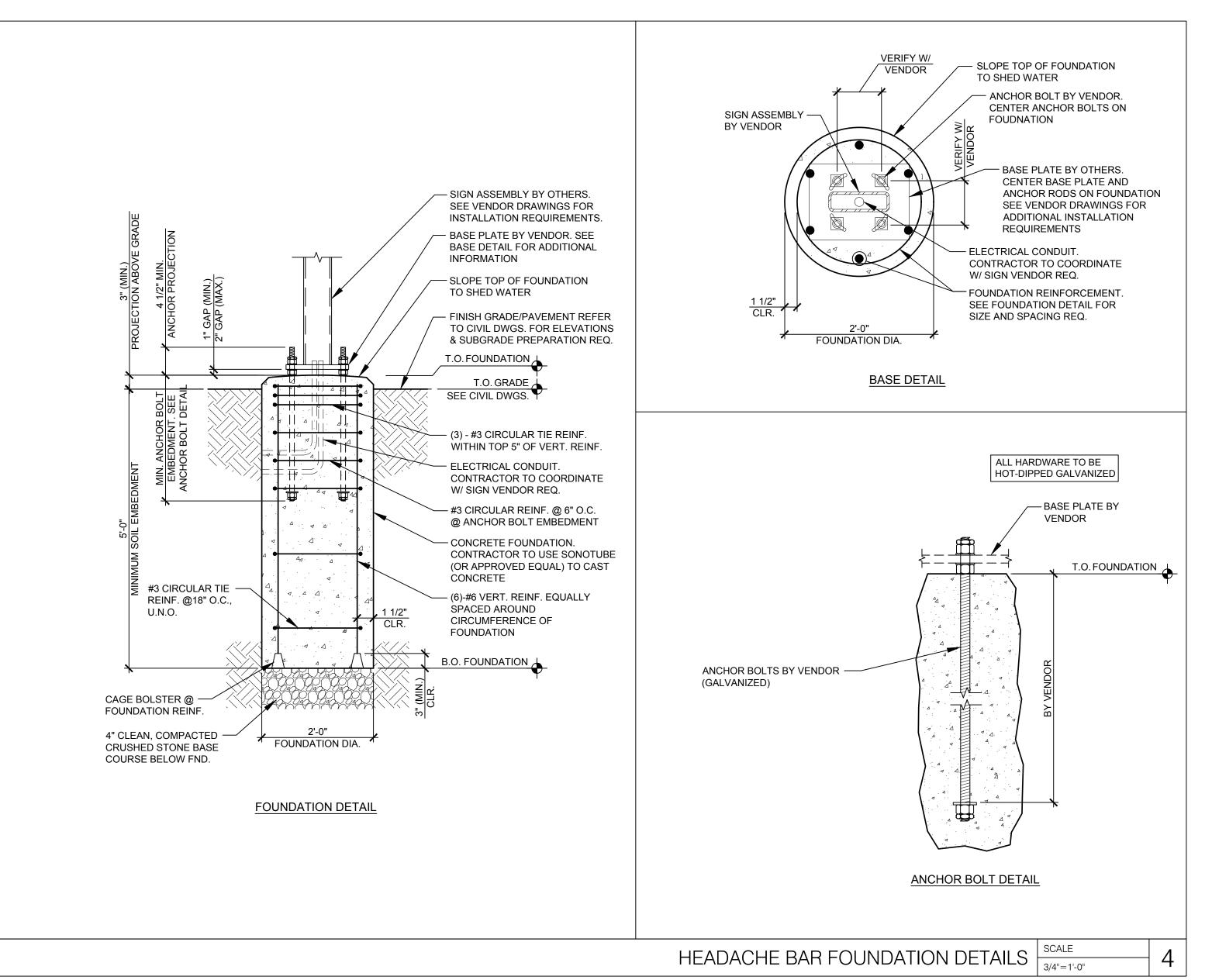
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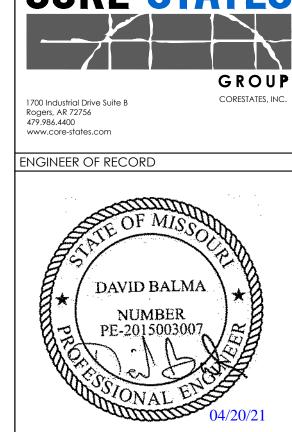






RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021





SUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET
3	2021.04.20	STRUCTURAL STEEL REV

HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE

SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

PROJECT INFORMATION
PROJECT NO: JPM.27135.0

PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: J.PEREZ

CHECKED BY: E.SCALGIONE

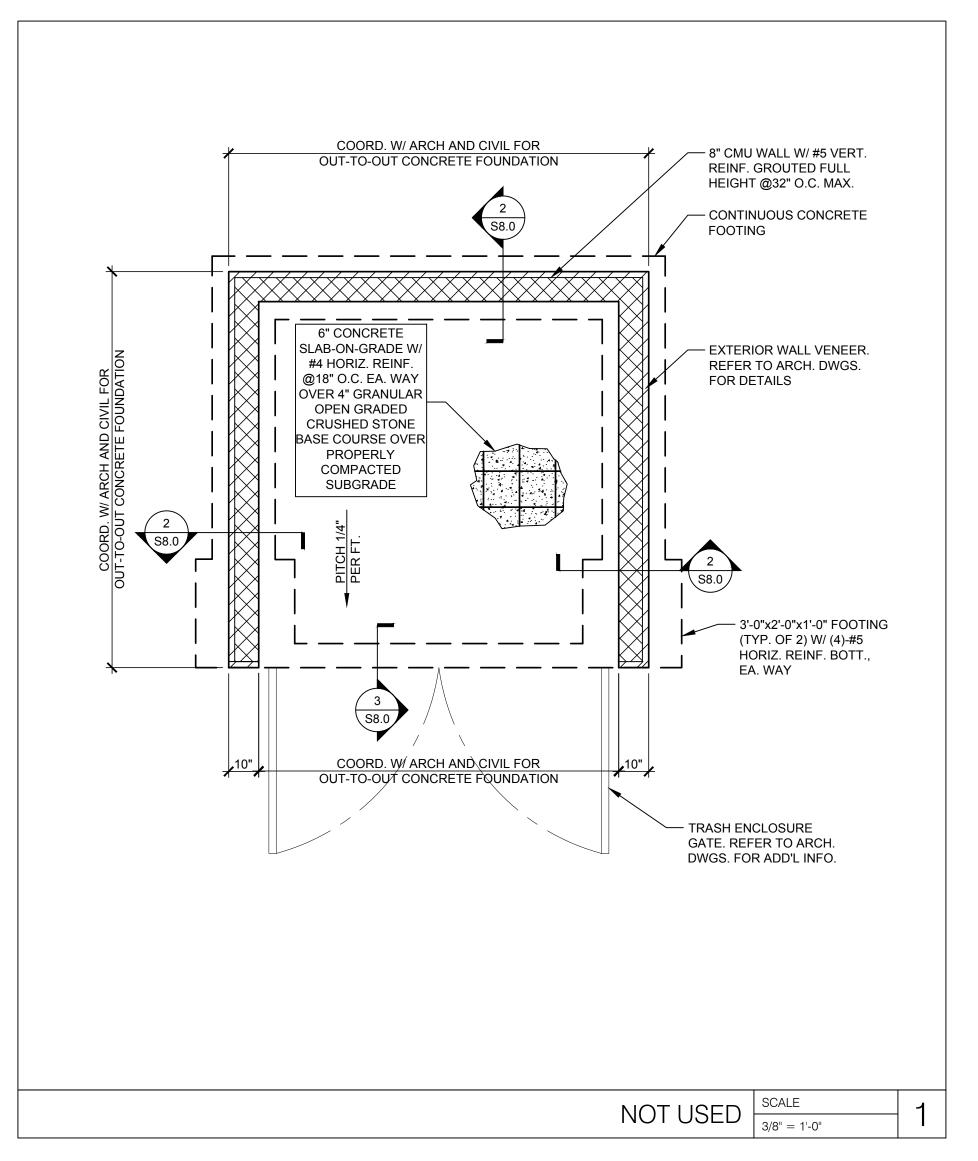
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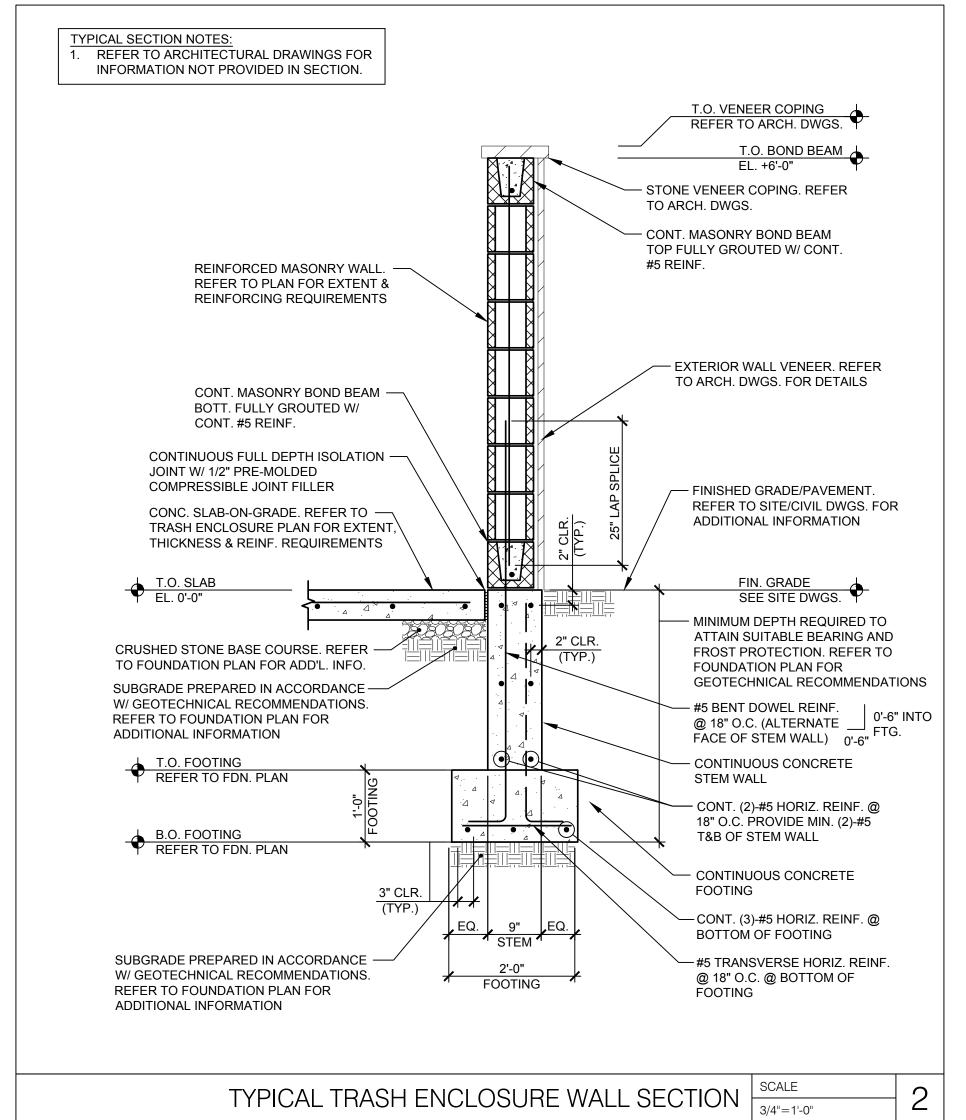
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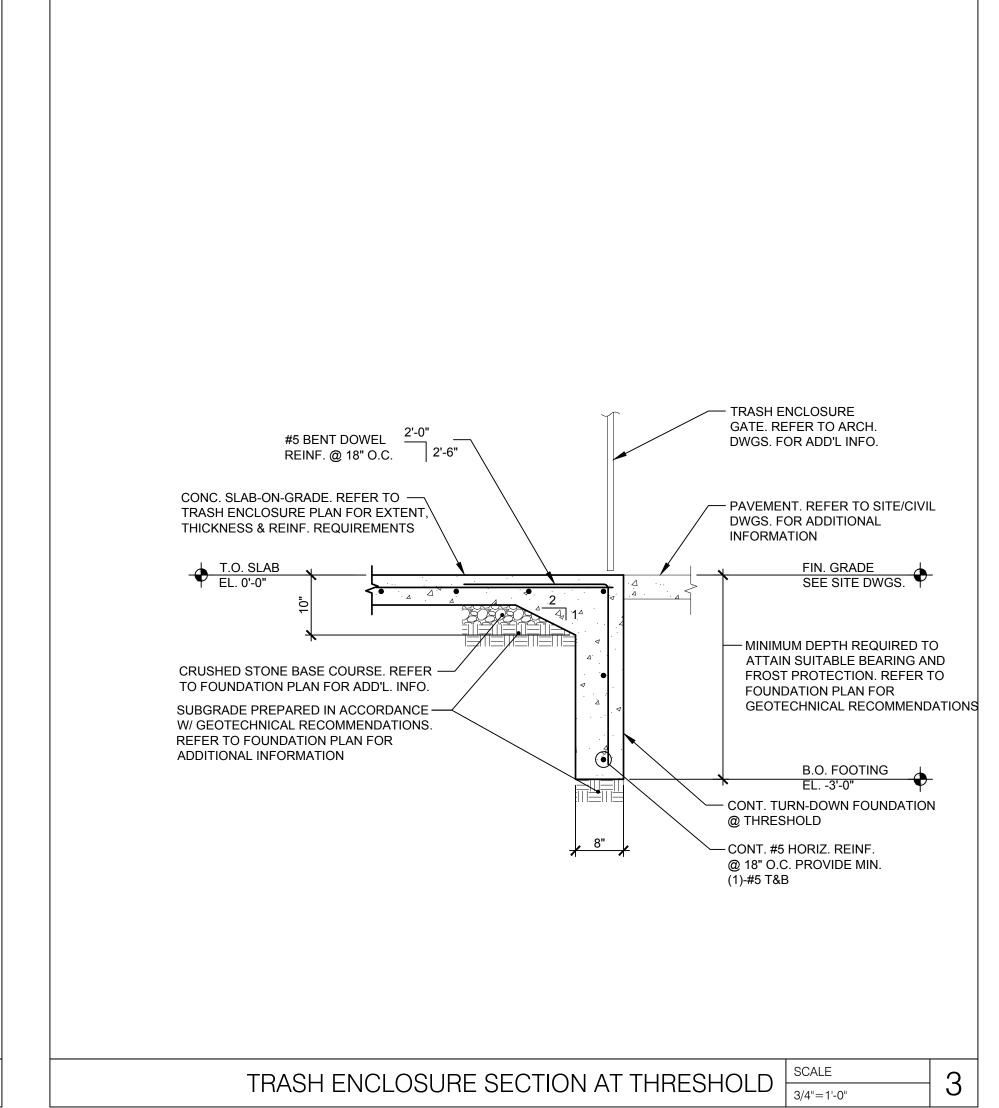
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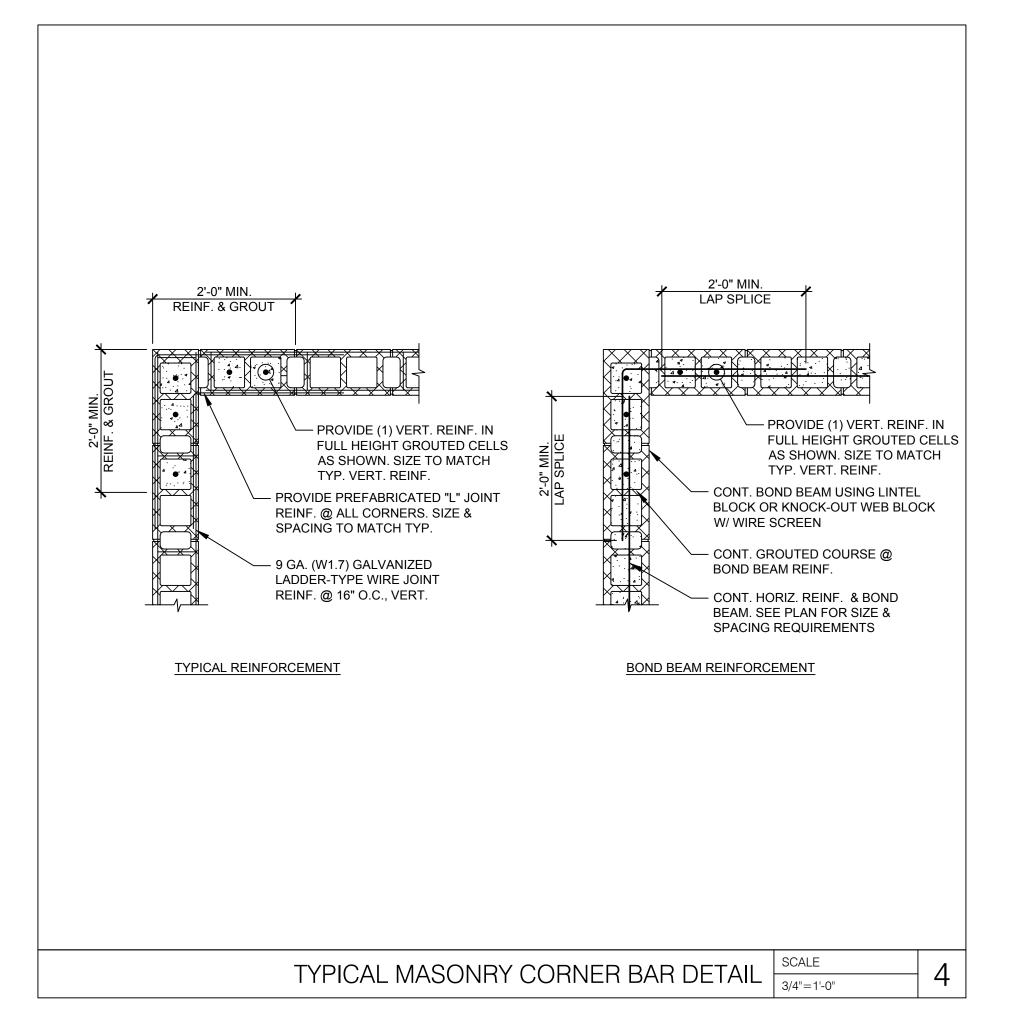
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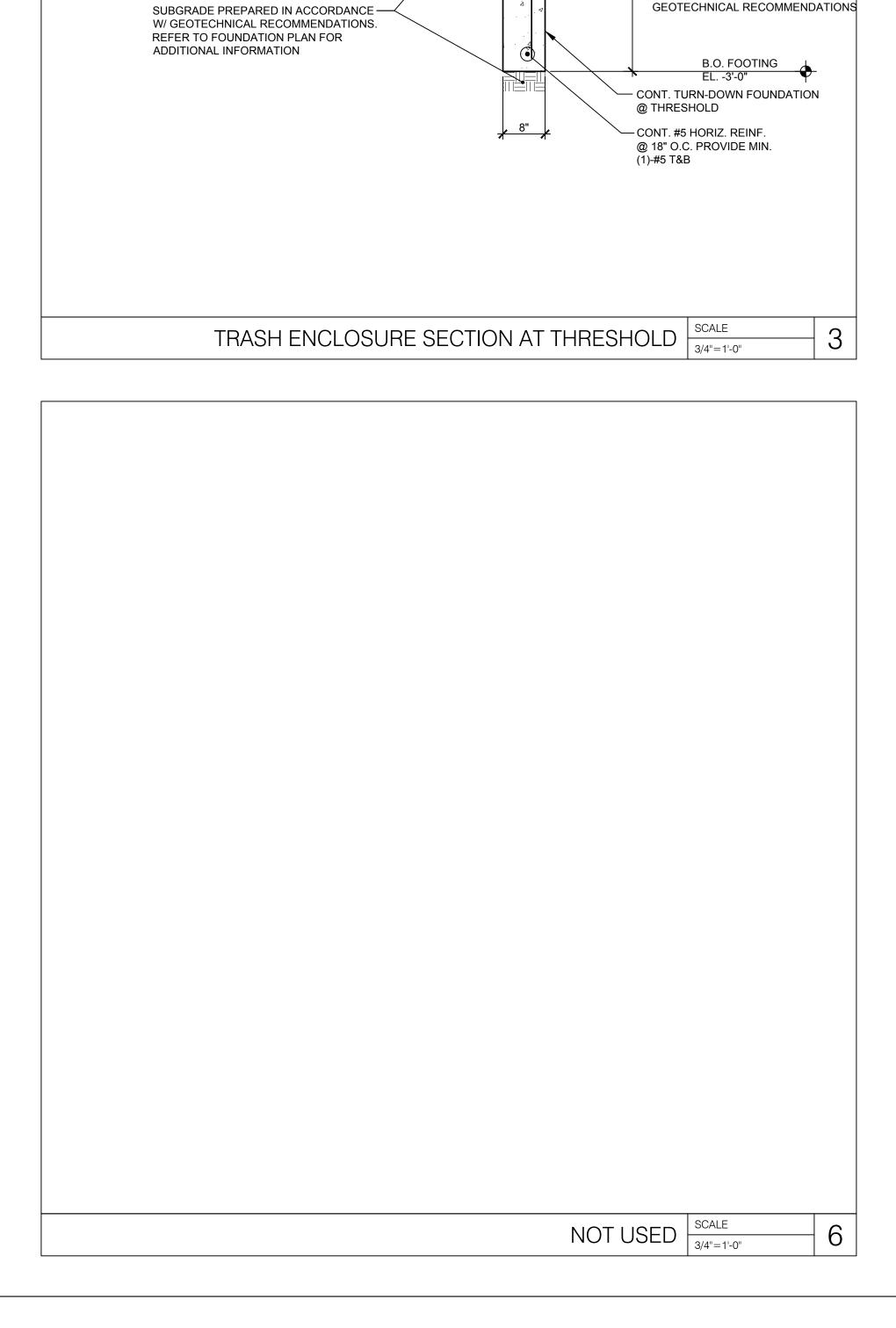








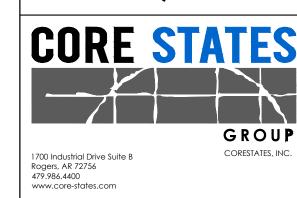


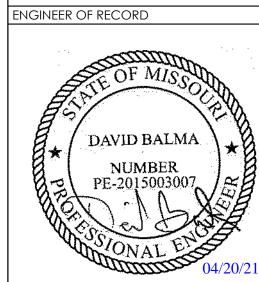






P MORGAN CHASE, N HWY 291 & NE LANGSFORD R





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ISSUE DATE DESCRIPTION

-	2020.12.21	PERMIT SET
}	2021.04.20	STRUCTURAL STEEL REV
PRO.	JECT INFO	ORMATION
PRO	DJECT NO:	JPM.27135.001
DA	TE:	2020.12.21
PRO	OTOTYPE:	20.2
DR.	AWN BY:	J.PEREZ
СН	ECKED BY:	E.SCALGIONE

TRASH ENCLOSURE DETAILS

SHEET NUMBER

VERSION: SHEET TITLE

S8.0

MECHANICAL GENERAL NOTES:

- 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.
- 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 \mid (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.
- \mid all duct sizes shown are free area sizes and do not account for insulation. Insulate all ductwork, excep \mid 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.
- PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS (NO EXTRACTOR) AND DAMPER.
- MAXIMUM LENGTH OF FLEX DUCT IS LIMITED TO 5'-0".
- 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.
- 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.
- 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.
- 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.
- ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
- INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
- CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS. 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. MOUNT ALL SPACE THERMOSTATS 48" AFF. MOUNT REMOTE TEMPERATURE SENSORS AT 60" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ADJACENT EQUIPMENT.
- 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.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
- 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 ELECTRICA CONDUITS OR CABLE TRAY.
- 18. PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS. SIZE PER MANUFACTURERS
- l requirements. CONTRACTOR SHALL NOT ATTACH SUPPORTS OR HANGERS DIRECTLY TO THE DECK, CEILING SUPPORT SYSTEM, OR
- AND/OR FLANGE OF THE BEAMS ABOVE. 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

DUCTWORK ABOVE. HANGERS, SUPPORTS, FASTENING DEVICES, ETC. SHALL BE FASTENED TO TOP CHORD OF THE JOIST

- 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.
- 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.
- 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
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- \mid the contractor shall coordinate work with other trades in order to avoid conflicts,
- PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION. ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE
- FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS
- 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.
- ALL REFRIGERANT SHALL BE R-410A. NO R-22 SHALL BE USED.
- 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.
- 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.
- 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 AIR CONDITIONING

AIR CHANGES PER HOUR ACCESS DOOR ABOVE FINISHED FLOOR AIR HANDLING UNIT ACCESS PANEL BYPASS DAMPER **BELOW FINISHED FLOOR** BRAKE HORSE POWER BOT

BRITISH THERMAL UNIT PER HOUR CONDENSATE DRAIN CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY CLG **CEILING**

COOLING TOWER CONDENSING UNIT CU CONDENSER WATER RETURN **CWS** CONDENSER WATER SUPPLY DB DRY BULB

DDC DIRECT DIGITAL CONTROL DG DOOR GRILLE DN DOWN

DEW POINT

DX DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE

ELECTRIC DUCT HEATER ENERGY EFFICIENCY RATIO EXHAUST FAN

EXPANSION TANK ELEVATION EQUIP EQUIPMENT

ENTERING WATER TEMPERATURE

EXISTING EXTERNAL STATIC PRESSURE FIRE DAMPER

FCU FAN COIL UNIT FD FLOOR DRAIN FLOOR FEET PER MINUTE

FSD FIRE/SMOKE DAMPER NATURAL GAS

GALLONS PER HOUR **GALLONS PER MINUTE** HUMIDITY

HC HEATING COIL HEAT EXCHANGER

HORSE POWER HOT WATER RETURN **HOT WATER SUPPLY**

KILOWATT LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE

MOTORIZED DAMPER MAXIMUM

MINIMUM NORMALLY CLOSED **NOT IN CONTRACT**

NORMALLY OPEN OUTSIDE AIR **OUTSIDE AIR INTAKE**

OUTSIDE SCREW & YOKE PD PRESSURE DROP

PRESSURE

RETURN AIR **ROOF DRAIN**

PRESS

REFRIGERANT RAIN LEADER RUNNING LOAD AMPS

REVOLUTIONS PER MINUTE ROOF TOP UNIT SMOKE DETECTOR

SUPPLY AIR STATIC PRESSURE SYSTEM

TEMPERATURE TYPICAL

UNDERCUT UNDERGROUND **UNDERWRITERS LABORATORY**

UNLESS OTHERWISE NOTED UON

VOLUME DAMPER VD VSD VARIABLE SPEED DRIVE WET BULB

MECHANICAL AND PLUMBING EQUIPMENT COMPONENTS EARTHQUAKE LOAD RESISTANCE OCCUPANCY CATEGORY BUSINESS - B EQUIPMENT AND SYSTEM ANCHORAGE TO FLOORS, ROOFS, ETC. ANCHORAGE AND SWAY BRACING DETAILS

COMI CINEINIS	TEOOKS, KOOTS, ETC.				THE TORTOL THE STATE BROKE THE BETT LES			
	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		Х					
EQUIPMENT SUSPENDED FROM STRUCTURE (Ip = 1.0) FCU-1	Х		Х					
EQUIPMENT MOUNTED ON WALL (Ip = 1.0)	Х		Х					

PIPING PIPING AND/OR EQUIPMENT TO BE REMOVED **}** EXISTING PIPING TO REMAIN **∠** CWS — **~** CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHWS—— CHILLED WATER SUPPLY **≥**——CHWR——**?** CHILLED WATER RETURN CONDENSATE LINE REFRIGERANT PIPING **₹**——HWS——**₹** HOT WATER SUPPLY **₹**—— HWR —— HOT WATER RETURN **─** - **─** - **─** DOMESTIC WATER **₹** GATE 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 OUTSIDE SCREW & YOKE (O S & Y) FLEXIBLE CONNECTION PRESSURE GAUGE THERMOMETER STRAINER WITH BALL VALVE TAILOL NOISNAYA EXPANSION JOINT

GENERAL CONTROL DEVICES

THERMOSTAT / TEMPERATURE SENSOR HUMIDITY SENSOR / CARBON DIOXIDE SENSOR SMOKE DETECTOR (DUCT MOUNTED) PROVIDED BY DIV. 16 INSTALLED BY DIV. 15

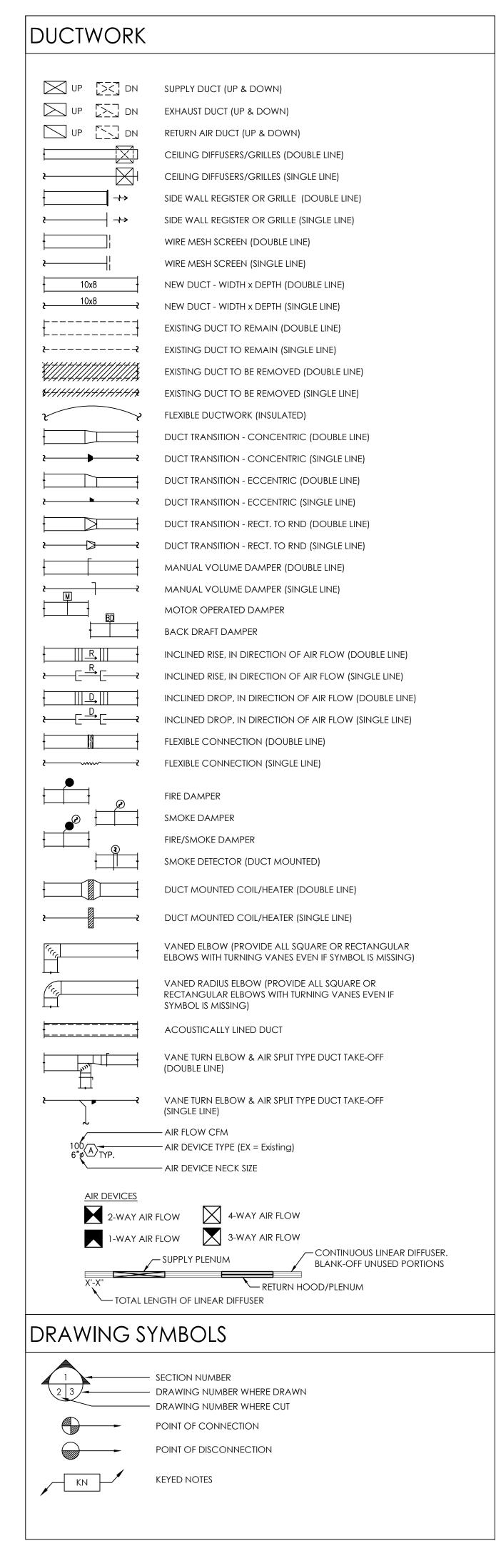
DAINTREE CONTROL DEVICES

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

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.



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI



NGINEER OF RECORD NUMBER PE-2013011214

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DESCRIPTION SSUE DATE 2020.12.21 | PERMIT SET

PROJECT INFORMATION PROJECT NO: JPM.27135.00 **PROTOTYPE** M.BATDORF DRAWN BY

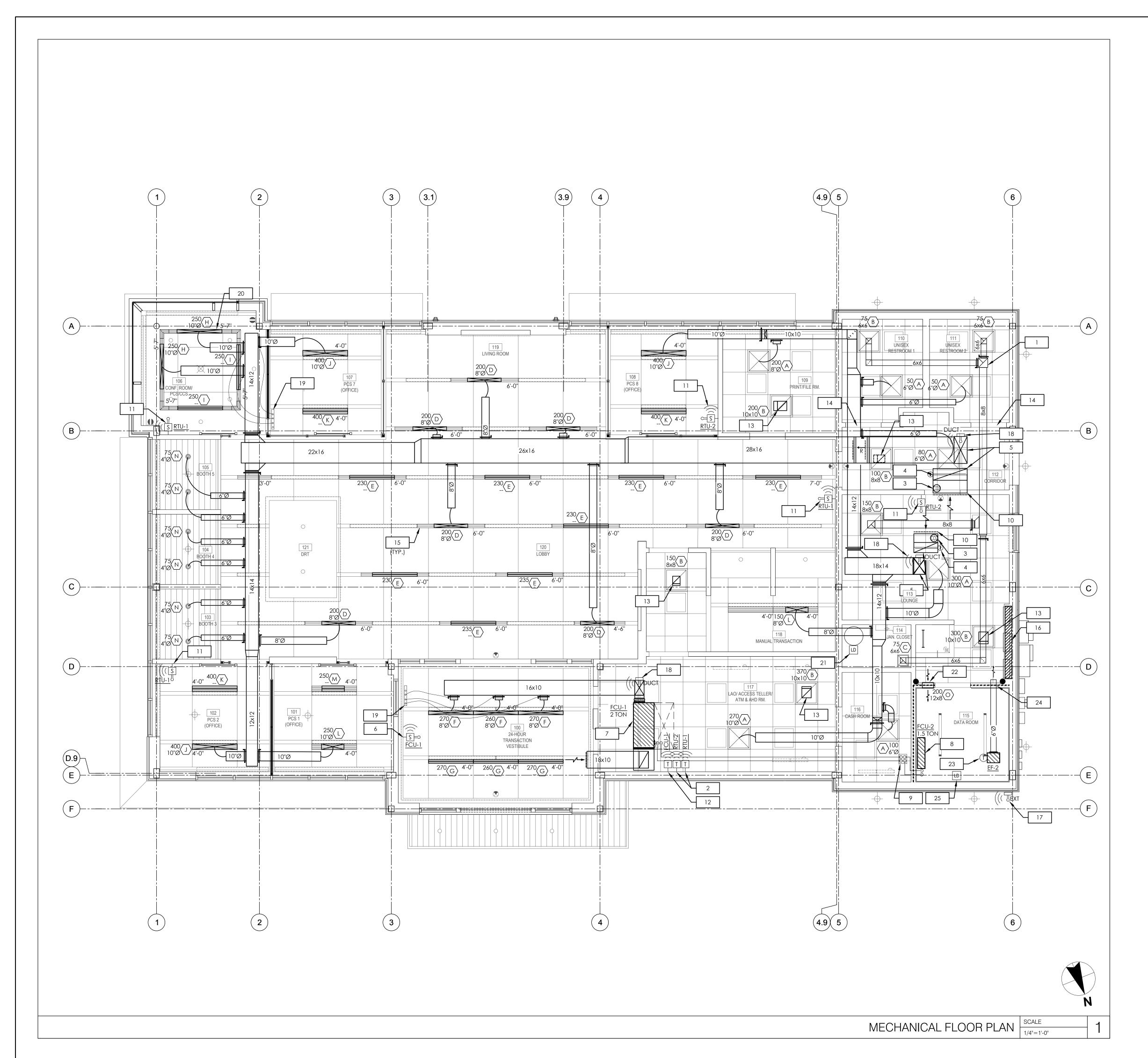
VERSION: SE 1.00 SHEET TITLE MECHANICAL LEGENDS AND

GENERAL NOTES

SHEET NUMBER

CHECKED BY:

M0.0



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 5-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.
- PROVIDE DUCT MOUNTED CO2 SENSOR FOR ROOF TOP UNIT.
 MOUNT NEW 120V DUCT MOUNTED SMOKE DETECTOR (FURNISHED AND
- WIRED BY DIV 26) IN MAIN RETURN AIR DUCT. DETECTOR'S 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.
- 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 5-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
- 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.

 3. 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 A COSSIBLE LOCATION AROYE
- 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
- 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.
- 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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-	2020.12.21	PERMIT SET
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DESCRIPTION

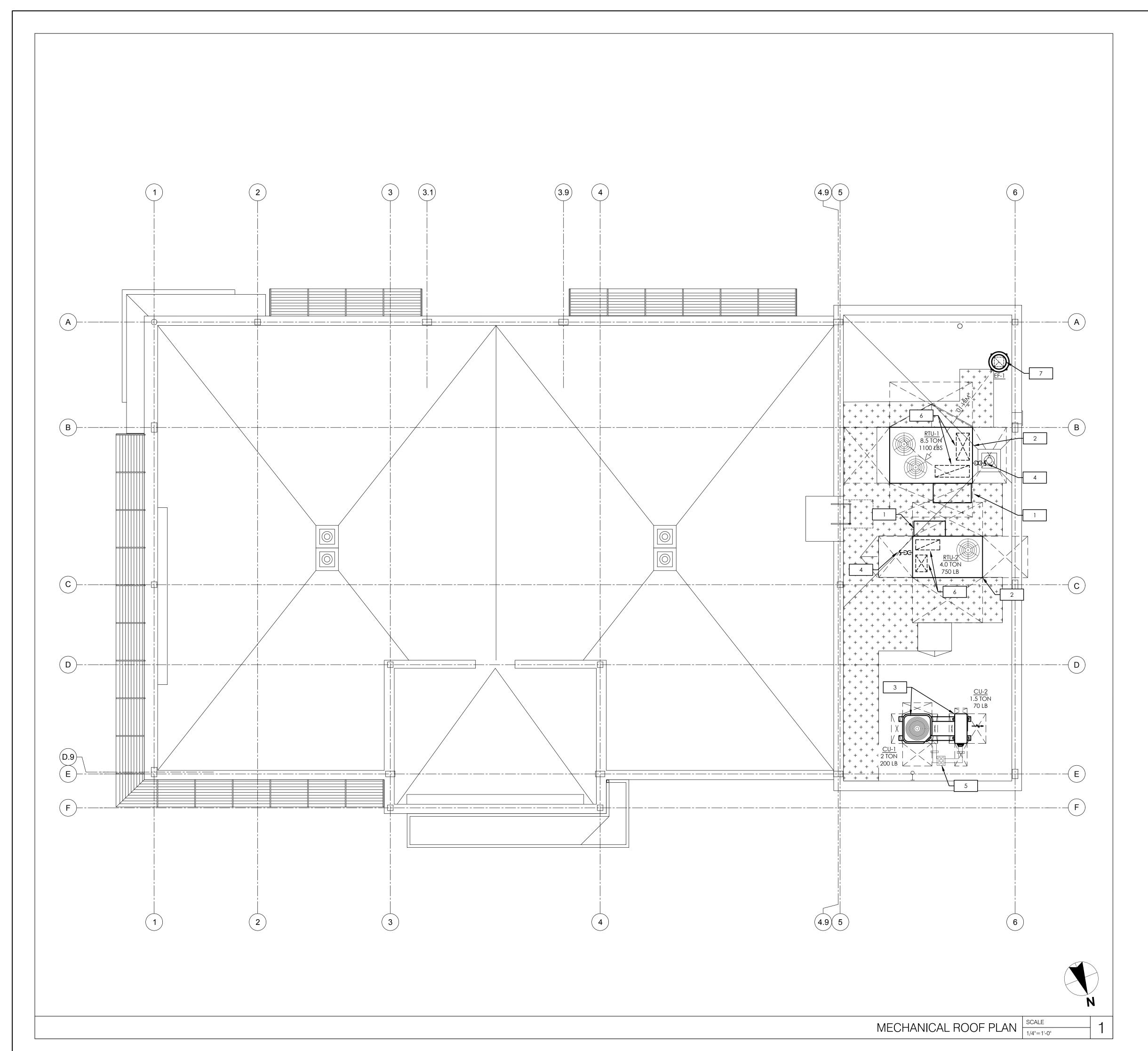
PROJECT INFORMATION					
PROJECT NO:	JPM.27135.00				
DATE:					
PROTOTYPE:	20				
DRAWN BY:	M.BATDOI				
CHECKED BY:	S.VA				
VERSION:	SE_1.0				
SHEET TITLE					

MECHANICAL FLOOR PLAN

SHEET NUMBER

ISSUE DATE

M1.0



MECHANICAL NOTES:

- 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.
- 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.
- 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.
- 1" CONDENSATE DRAIN LINE. ROUTE TO NEAREST PRIMARY ROOF DRAIN AND TERMINATE WITH A MINIMUM 2" AIR GAP.
- 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.
- 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.
- ROOF MOUNTED EXHAUST FAN EF-1. MAINTAIN A MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKE OPENING. COORDINATE LOCATION WITH STRUCTURAL BUILDING CONDITIONS.

	PIPE INS	ULAT	ION	1	
FINAL DESIGN OPERATING	INSULATION COND	UCTIVITY	NOM	INAL PIPE	E SIZE (INCH)
TEMPERATURE RANGE	CONDUCTIVITY	MEAN TEMP.	<1	1-1 1/2	1 1/2 TO 4
(°F)	BTU in/(h ft2 x °F)	RATING		THICKNE	ESS (IN)
40-60	0.21-0.27	75	0.5	0.5	1.0

0.20-0.26 50 0.5 1.0 1.0

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021





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 PROTOTYPE: M.BATDORF DRAWN BY: CHECKED BY: SE_1.00 SHEET TITLE

> MECHANICAL **ROOF PLAN**

SHEET NUMBER

M1.1

			DIFF	USER, C	SRILLE, A	AND REC	SISTER 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
	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
0	WALL	TRANSFER	ALUMINUM	-	12"W-8"H	TITUS 350FL	WALL MOUNTED TRANSFER GRILLE	2,3

REMARKS:

- . 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 BORDER TIPE 88 AND ASSOCIA
- 13. PROVIDE WITH BORDER TYPE 16 WITH SC1 AND UHC HANGER CLIPS.

					ESP				ELECTR	ICAL		WE
TAG	SERVICE	LOCATION	CFM	MANUF MODEL	(W.C)	DRIVE	TYPE	HP	V.	Ø	Hz	(
EF-1	EXHAUST	ROOF	375	GREENHECK- G-090-VG	0.375	DIRECT	CENT.	1/10	115	1	60	
EF-2	EXHAUST	DATA ROOM	200	GREENHECK- SP-B200	0.15	DIRECT	CENT.	1/4	115	1	60	
2. 3.	PROVIDE W PROVIDE V MARK BALA FOR EXHAU EACH RESTR	ARIABLE SP ANCED POS IST FAN CO ROOM, ON	EED CO SITION O NTROL, E OCC	RLOAD PROTECTION ONTROLLER FOR ALL DIF ON CONTROLLER. PROVIDE 4-WAY CON UPANCY SENSOR IN TH AL DRAWINGS FOR EXF	TROL CIF E JANITC	RCUIT BY C DRS CLOSE	ONE OCO	CUPANO ONE TIM	CY SEN	isor i	Ν	

FAN SCHEDULE

	CONDENSING UNIT SCHEDULE											
			COOLING CAPACITY				ELECTR	ICAL		WEIGHT	AHRI RATING	
TAG	SERVICE	LOCATION	(TONS)	MANUF MODEL	٧.	Ø	Hz	MCA	МОСР	(LBS)	(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:

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

				VEN	ILATION	AIR SCH	HEDULE			
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)
	120 LOBBY/ 119 LIVING ROOM	LOBBIES	877	9	5	0.06	122	125		-
	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		
RTU-1	103 BOOTH	OFFICE SPACE	38	3	5	0.06	22	25	360	-
	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		-
	108 PCS 8	OFFICE SPACE	90	3	5	0.06	26	30		-
	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		-
RTU-2	113 LOUNGE	OFFICE SPACE	218	5	5	0.06	48	50	170	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

	IGN SUMME IGN WINTER					3°F W.B.		R	OOF 1	ГОР А	IR C	OND	ITIC	N	NC	9 UN	VITS						
					COOLIN	NG CAPACITY	HEATING	CAPACITY	- HEATING						ELECTF	RICAL							
TAG	SERVICE	TYPE	CFM	TONS	TOTAL (MBH)	SENSIBLE (MBH)	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY (%)		ESP. (IN W.C.)	IFM TYPE	V.	Ø	Hz	МСА	МОСР	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.
- PROVIDE WITH ELECTROMECHANICAL CONTROLS. DAINTREE TO PROVIDE WI-FI COMMUNICATING THERMOSTATS AND ASSOCIATED SENSORS.
 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.
- PROVIDE CONDENSATE PIPE DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
 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 SC	CHE	DU	ILE					
					COOLING	G COIL	HEATING COIL			ELECTR	ICAL				
TAG	SERVICE	LOCATION	SUPPLY AIR (CFM)	ESP (IN. W.C.)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	CAPACITY (kW)	V.	Ø	Hz	мса	МОСР	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:

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

2,5,6,7

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:

- 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.

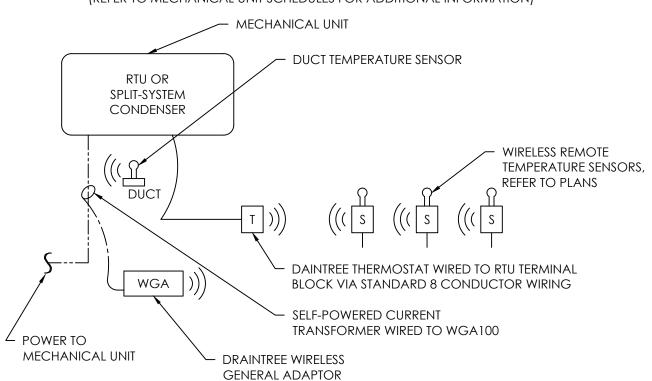
CONTROL SCOPE COMMISSIONING:

SATISFY THE CONSTRUCTION TIMELINE.

- CONTRACTOR IS RESPONSIBLE FOR CORRECT WIRING, TESTING, AND DOCUMENTATION OF ALL IEEE DEVICE ADDRESSES IN A FORMAT REQUIRED BY THE CONTROLS SUPPLIER.
 CONTRACTOR TO RESPONSIBLE FOR COORDINATING EFFORTS WITH THE CONTROLS PROVIDER TO
- 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)



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

MORGAN CHASE, N.A WY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD 890 NE LANGSFORD RD



479.986.4400 www.core-states.com

ENGINEER OF RECORD



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ISSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE:

PROTOTYPE: 20.2

DATE:

PROTOTYPE: 20.2

DRAWN BY: M.BATDORF

CHECKED BY: S.VAZ

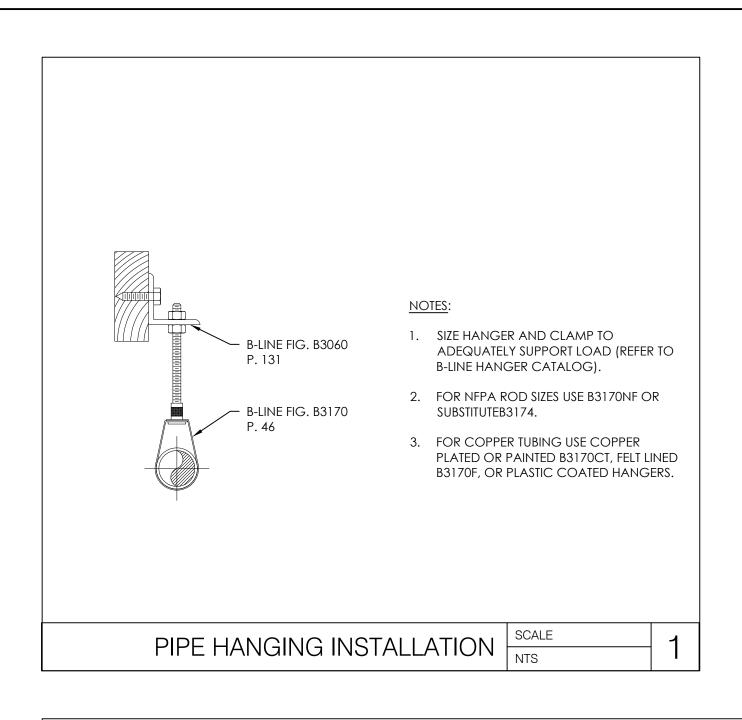
VERSION: SE_1.00

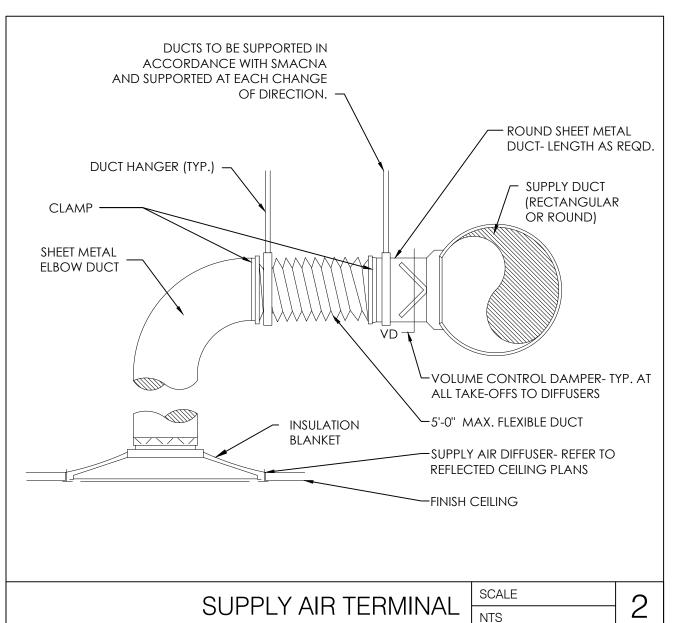
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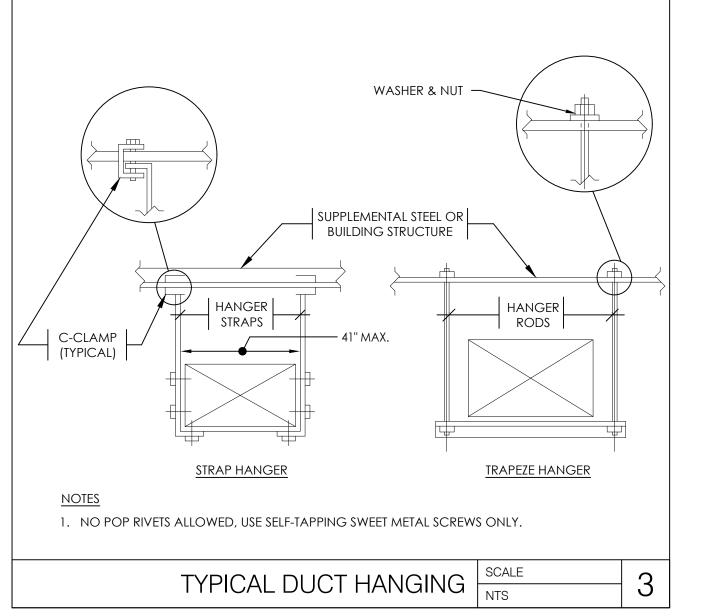
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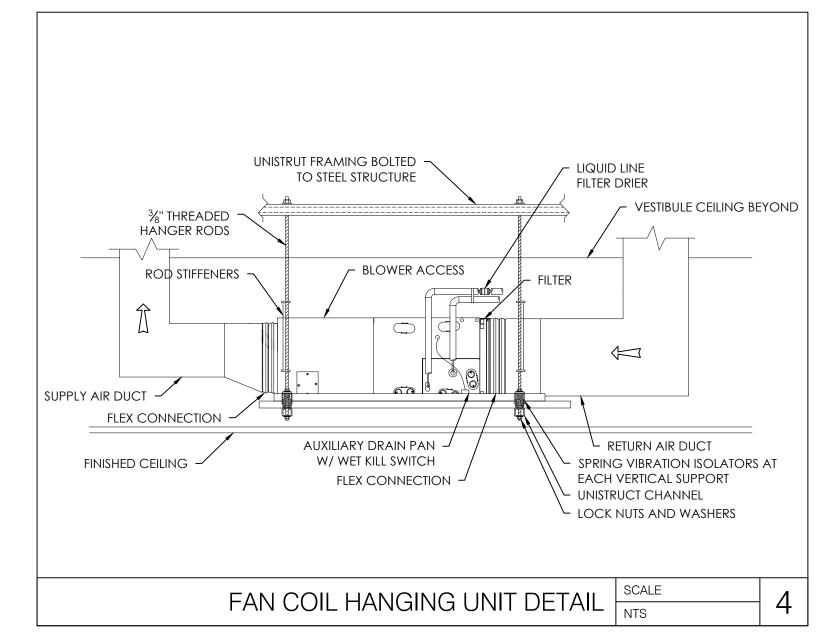
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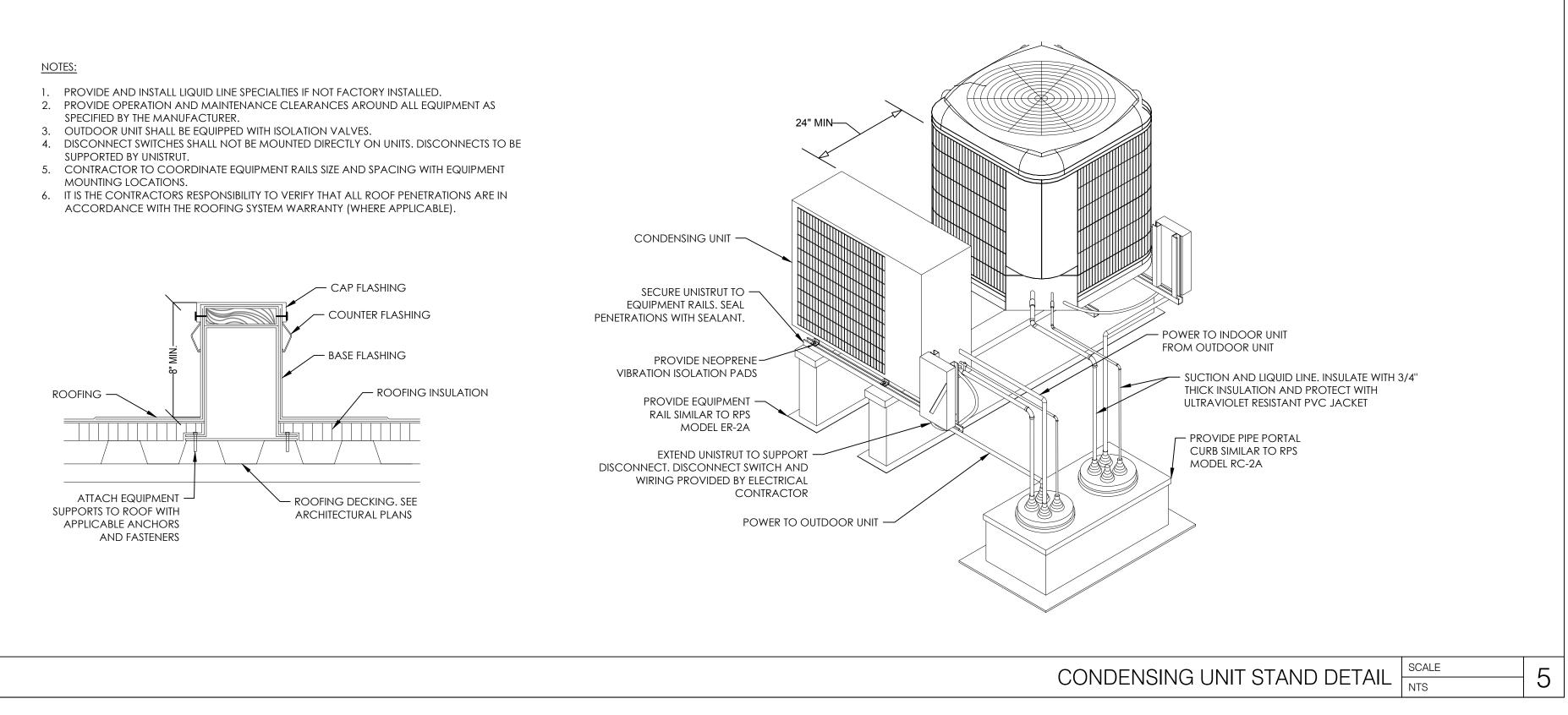
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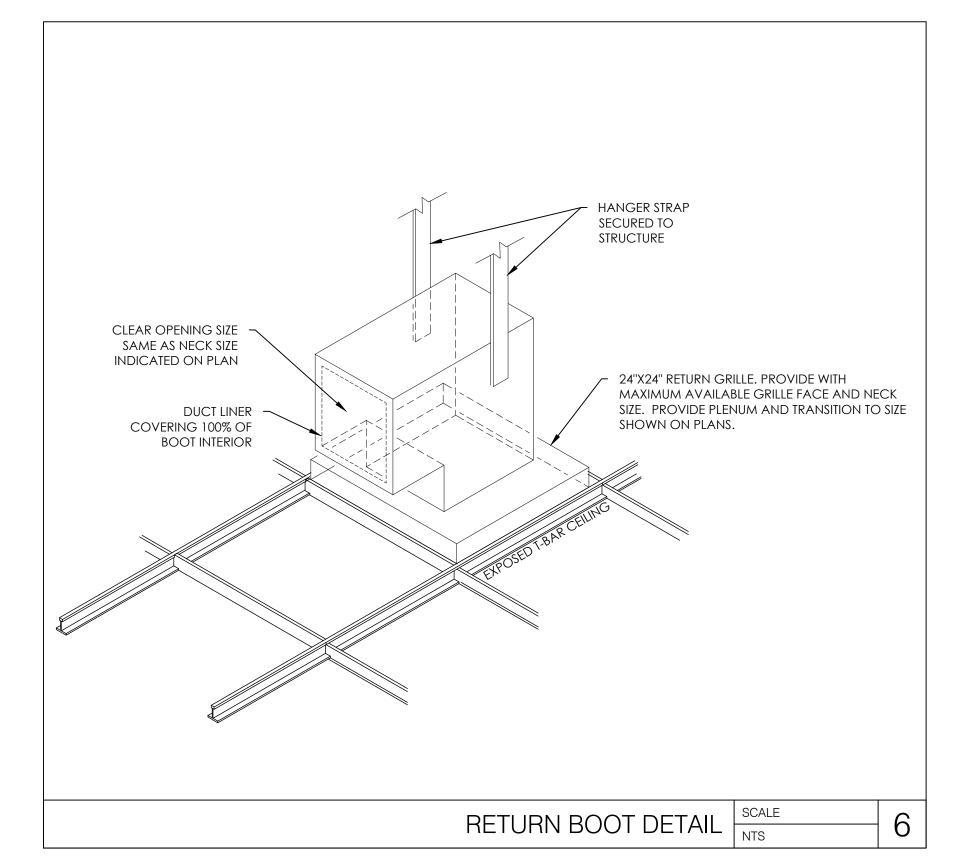


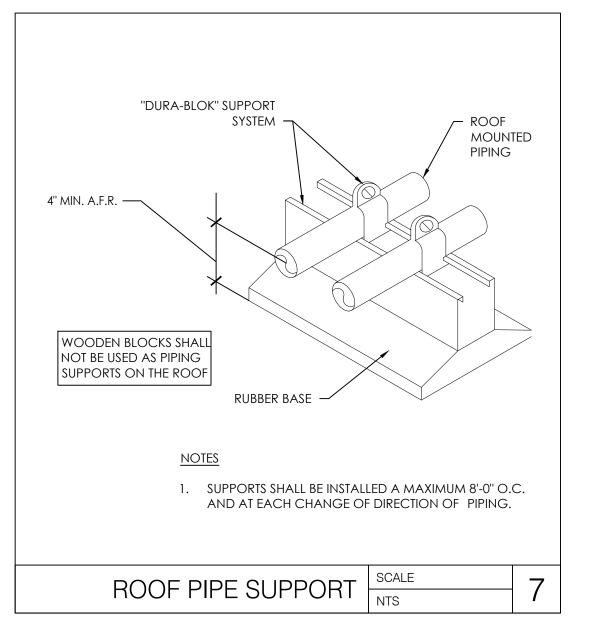


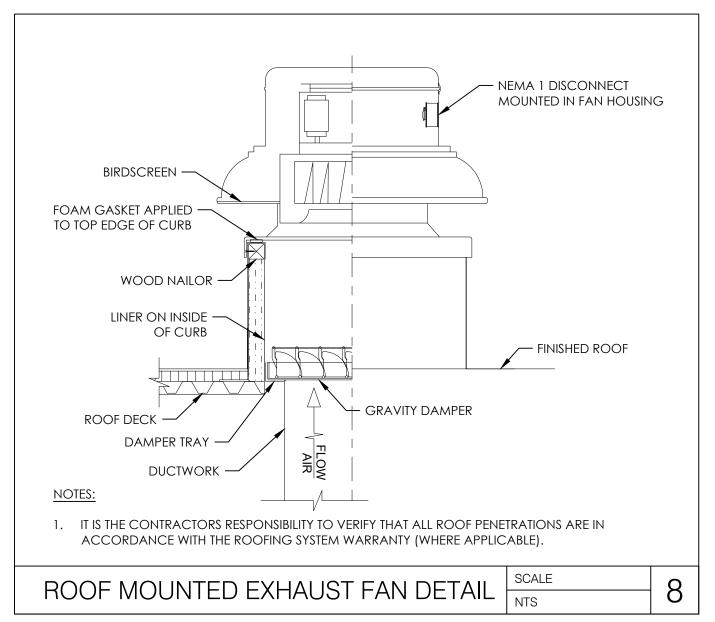


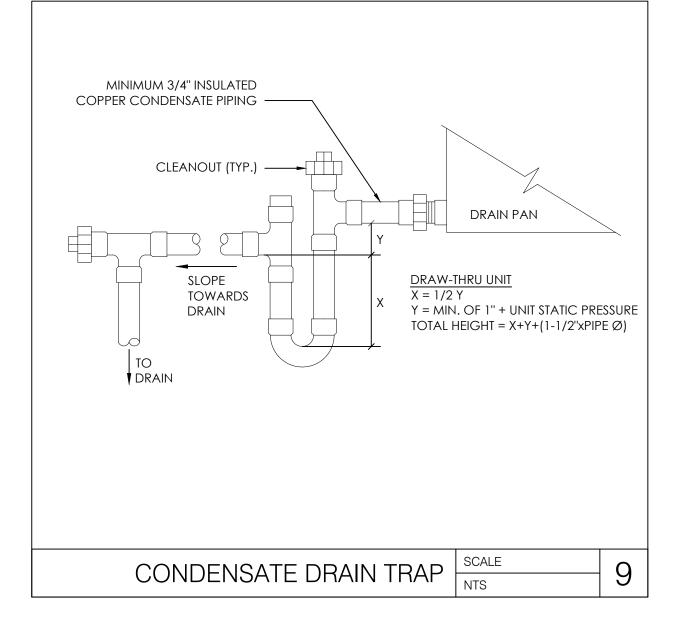


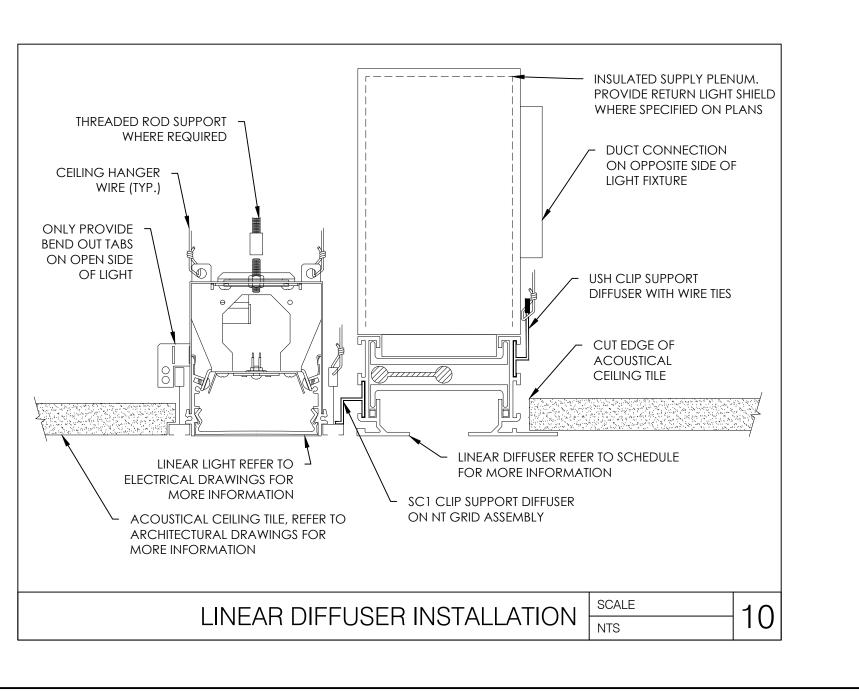














MORGAN CHASE, N.,
WY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD

CORE STATES

GROUP

1700 Industrial Drive Suite B
Rogers, AR 72756
479.986.4400
www.core-states.com

ENGINEER OF RECORD

DAVID MICAH PLEIFFER

NUMBER
PE-20130H214

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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

MECHANICAL DETAILS

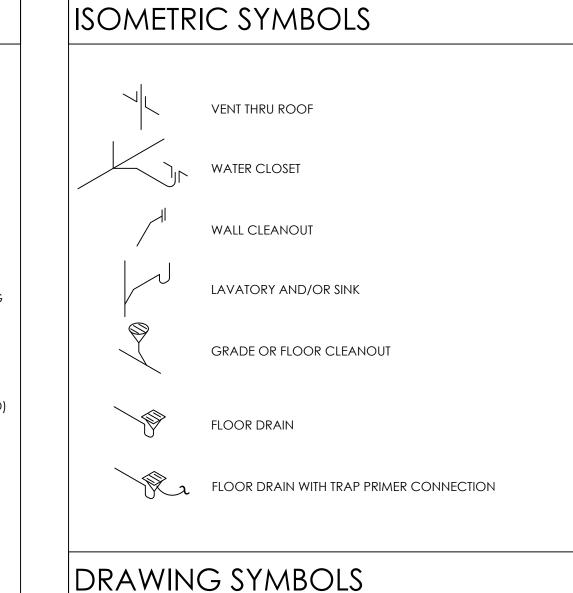
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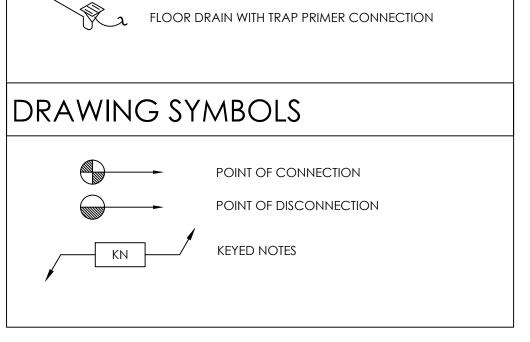
M3.0

PLU	IMBING FIXTURE SCHEDULE:				
MARK	ITEM: DESCRIPTION	COLD WATER	HOT WATER	WASTE	VEN
<u>P-1</u>	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"
<u>P-2</u>	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
<u>P-3</u>	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
<u>P-4</u>	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"
<u>P-5</u>	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
<u>P-6</u>	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	-
<u>ORD</u>	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	-
<u>DNZ</u>	DOWNSPOUT NOZZLE (PF-DN1): ZURN MODEL# ZANB199-SS DOWNSPOUT NOZZLE. PROVIDE WITH NICKEL BRONZE BODY, REMOVABLE STAINLESS SCREEN, AND DECORATIVE WALL FLANGE.	-	-	SEE DRAWINGS	-
<u>DNB</u>	DOWNSPOUT SHOE: PIEDMONT MODEL# SG-2.5X3-12 CUSTOM DOWNSPOUT WITH 2.5" x 3" INLET, 3" OUTLET, 12" BODY LENGTH	-	-	SEE DRAWINGS	-
<u>FD</u>	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).	-	ı	SEE DRAWINGS	-
<u>GCO</u>	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.	-	ı	SEE DRAWINGS	-
<u>FCO</u>	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.	-	ı	SEE DRAWINGS	-
<u>EWH</u>	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	-	-	-	-
<u>BFP</u>	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	-	-	-

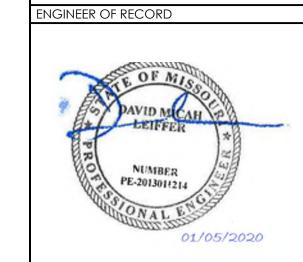
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BOT	BOTTOM
CD	CONDENSATE DRAINAGE
СР	CHROME PLATED
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
DNZ	DOWNSPOUT NOZZLE
D	DRAIN
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FC	FAN COIL
FD	FLOOR DRAIN
FL	FLOOR
GCO	GRADE CLEANOUT
GPF	GALLONS PER FLUSH
GPM CV	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB HOT WATER
HW INV	
MAX	INVERT (VERIFY IN FIELD) 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
	747 (EE CEE) (14001

		——~	NEW COLD WATER PIPING
		——~	NEW HOT WATER PIPING
		~~~~?	NEW HOT WATER RETURN PIPING
2		——₹	NEW SANITARY AND/OR WASTE PIPING
<del></del>	_ — — -	<b>— —</b>	NEW VENT PIPING
2	ST	——₹	NEW PRIMARY STORM WATER PIPING
2	SST	~~~~	NEW SECONDARY STORM WATER PIPING
<u>.                                    </u>	CD	~~~~?	NEW CONDENSATE DRAIN PIPING
•	—— G ——	~~~~	NEW GAS PIPING
	Д^	<b>─</b>	HAMMER ARRESTOR (PDI SIZE INDICATED)
			CLEANOUT IN FLOOR
ı	<b>─</b>	<del></del>	GRADE CLEANOUT
<b>5</b>		—— <u> </u>	FLOOR DRAIN
;		——©	ROOF DRAIN (PRIMARY)
		——©	ROOF DRAIN (SECONDARY)
•			WALL CLEANOUT EXPOSED
			VALVE IN RISER
<u> </u>		~~~~	DIRECTION OF FLOW
		~~~~	TOP CONNECTION, 45 OR 90 DEG.
2	<u> </u>		BOTTOM CONNECTION, 45 OR 90 DEG.
2	<u> </u>	~~~~	SIDE CONNECTION
2		~~~~	CAPPED OUTLET
2		~~~~	DROP IN PIPING
2	O	<u>`</u>	RISE IN PIPING
2		— >	HOSE BIBB
2			BALL VALVE





PIPE MATERIAL SCHEDULE									
SERVICE	APPLICATION	PIPE MATERIAL							
DOMESTIC MATER	ABOVE GRADE	TYPE "L" HARD DRAWN COPPER							
DOMESTIC WATER	BELOW GRADE	TYPE "K" HARD DRAWN COPPER							
CANITADV	ABOVE GRADE	HUBLESS CAST IRON							
Sanitary -	BELOW GRADE	SCH. 40 PVC OR CAST IRON							
STORM	ABOVE GRADE	HUBLESS CAST IRON							
SIORM	BELOW GRADE	SCH. 40 PVC OR CAST IRON							
VENT	ABOVE GRADE	HUBLESS CAST IRON							
CONDENSATE	ABOVE GRADE	TYPE "L" HARD DRAWN COPPER							



1700 Industrial Drive Suite B Rogers, AR 72756 479.986.4400 www.core-states.com

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DEVELOPMENT SERVICES
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ISSUE DATE DESCRIPTION

-	2020.12.21	PERMIT SET
PRO.	JECT INFO	DRMATION
PRO	DJECT NO:	JPM.27135.001

SHEET TITLE PLUMBING ABBREVIATION, LEGENDS & NOTES

M.BATDORF

SE_1.00

SHEET NUMBER

PROTOTYPE:

DRAWN BY: CHECKED BY:

VERSION:

PLUMBING GENERAL NOTES:

ALL NEW AND EXISTING POTABLE WATER PIPING SHALL BE DISINFECTED PRIOR TO OCCUPANCY.

PLENUM WRAP 5A+ OR EQUAL.

WITH ARCHITECT/LANDLORD.

DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM 84 TESTING.

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.

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

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

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

		PLU	MBING	EQUI	PMENT C	OMP	ONENTS	
OCCUPANCY C	ATEGORY (ш) Е	EARTHQ	UAKE	LOADR	ESISTA	NCE SE	EISMIC DESIGN CATEGORY (B)
EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF I		COMMENTS	
					ON CONST. DOCUMENTS	SUBSEQUENT SUBMITTAL		
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
WASTE PIPING	Х		X					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
EXTERIOR GAS PIPING (Ip=1.5)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
INTERIOR GAS PIPING (IP=1.5)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
VENT PIPING (IP=1.0)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
WATER PIPING (IP=1.0)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
STORM PIPING (IP=1.0)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B
WATER HEATER (IP=1.0)	Х		Х					SEISMIC BRACING NOT REQUIRED FOR DESIGN CATEGORY B

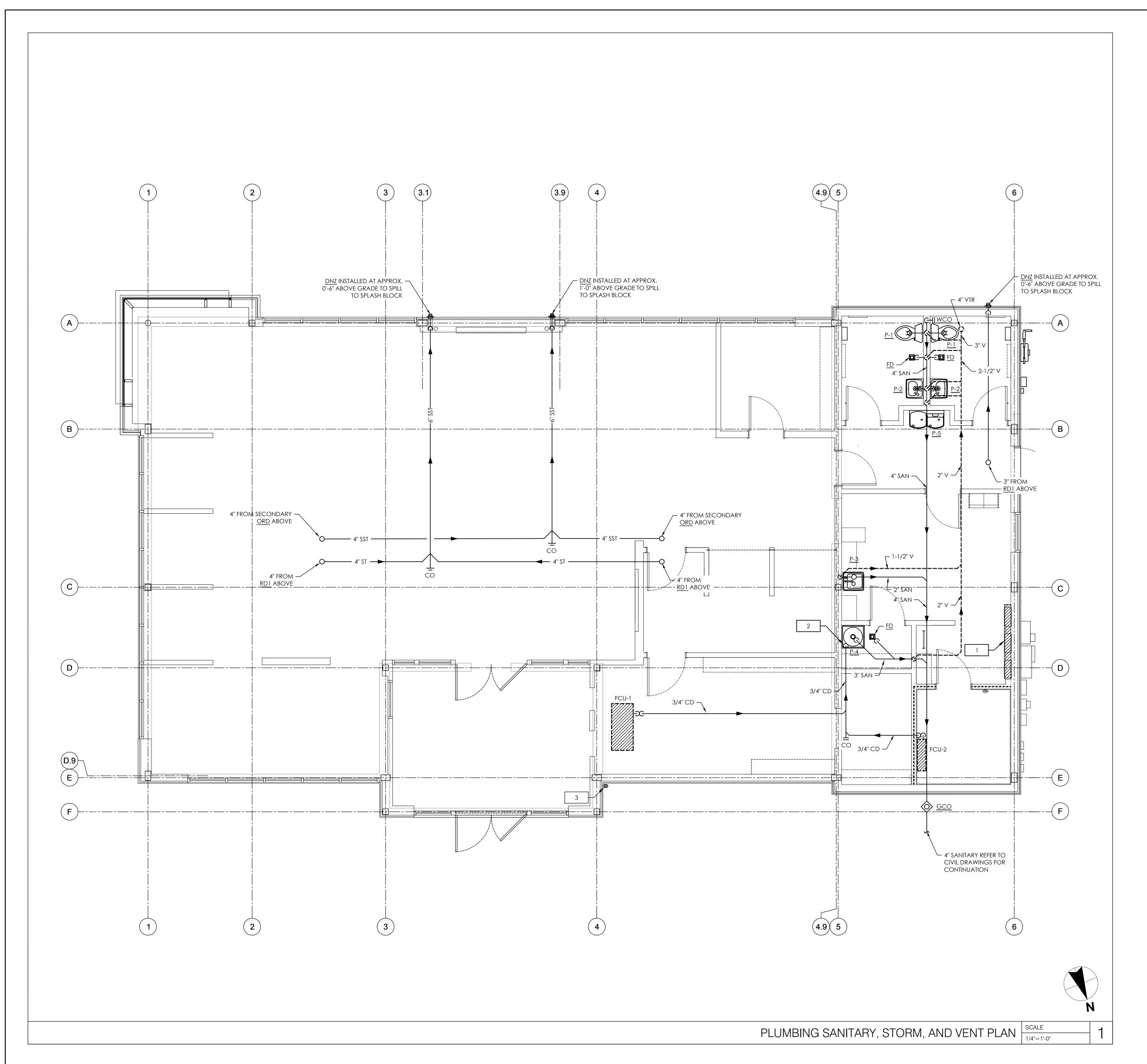
NOTE: REFER TO SPECIFICATION SECTION 221000 FOR ADDITIONAL INFORMATION.

CONTROL DEVICES



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.

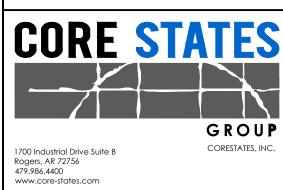


PLUMBING NOTES:

- 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
- 3. CONTRACTOR TO PROVIDE DOWNSPOUT SHOE (<u>DNZ</u>) 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.







ENGINEER OF RECORD



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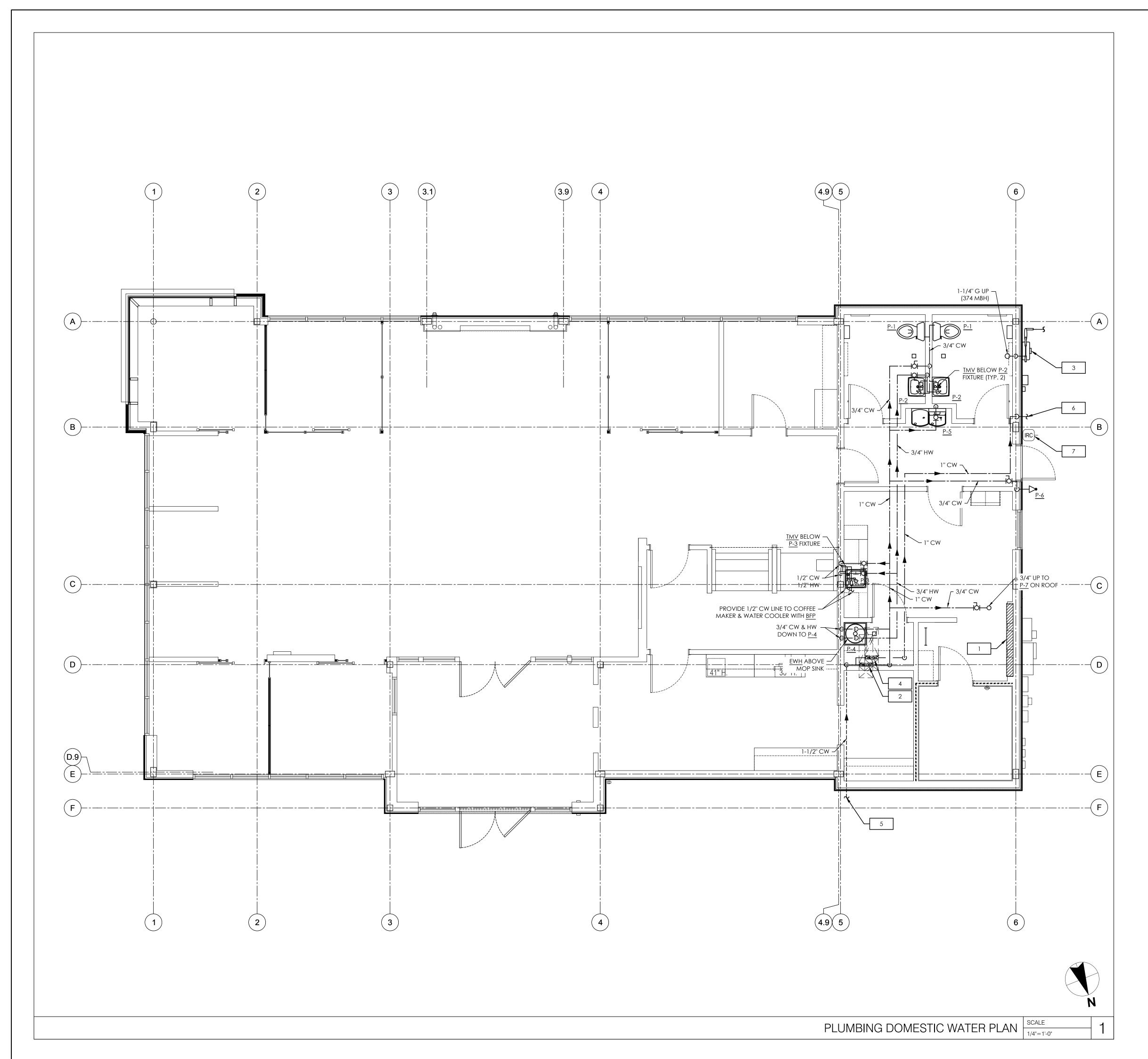
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-	2020.12.21	PERMIT SET

PRO.	JECT INFO	ORMATION
PRO	OJECT NO:	JPM.27135.00
DA	TE:	
PRO	OTOTYPE:	20.5
DR.	AWN BY:	M.BATDOR
CH	ECKED BY:	S.VA
VER	rsion:	SE_1.00
SHEET	TITLE	

PLUMBING SANITARY, STORM, & VENT PLAN

SHEET NUMBER

P1.0



PLUMBING NOTES:

- 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.
- CONTRACTOR TO PROVIDE 1" WATTS LF009M2QT BACKFLOW PREVENTION DEVICE SERVING BUILDING DOMESTIC WATER SYSTEM. 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.
- CONTRACTOR TO PROVIDE 1" WATTS LF009M2QT BACKFLOW PREVENTION DEVICE SERVING BUILDING IRRIGATION SYSTEM.
- 1-1/2" DOMESTIC COLD WATER SERVICE BELOW GRADE. REFER TO CIVIL PLANS FOR CONTINUATION.
- 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.
- LANDSCAPE IRRIGATION SYSTEM CONTROLLER AND WIRELESS NETWORK LINK. CONTROLLER SHALL BE LINKED TO DAINTREE BMS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021



GROUP 1700 Industrial Drive Suite B Rogers, AR 72756 479.986.4400 www.core-states.com

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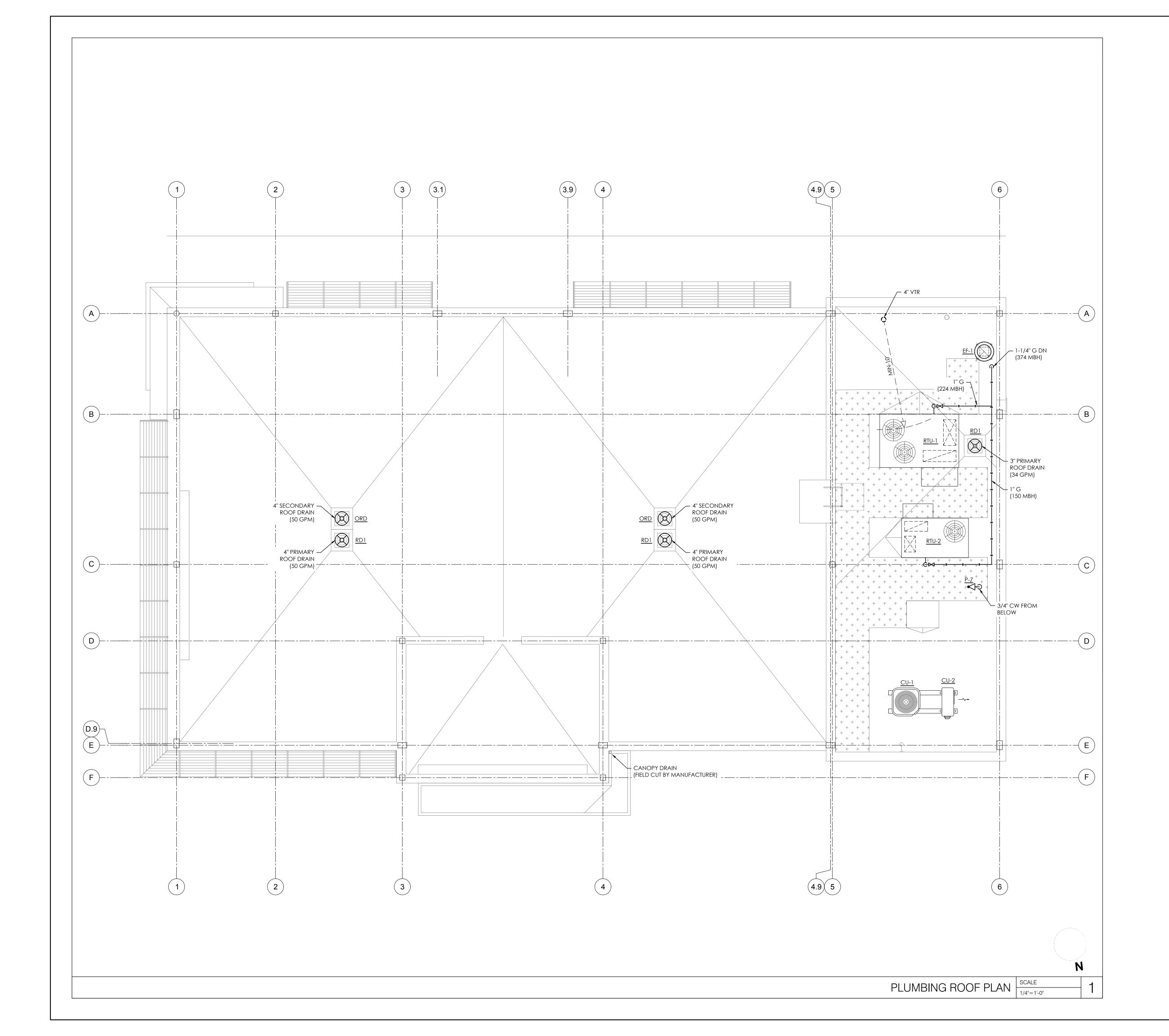
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ISSUE DATE DESCRIPTION 2020.12.21 PERMIT SET

PROJECT INFORMATION JPM.27135.001 PROTOTYPE: M.BATDORF CHECKED BY: SE_1.00

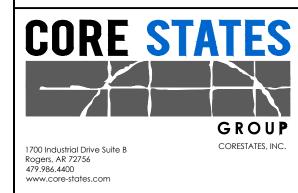
PLUMBING DOMESTIC **WATER PLAN**

SHEET NUMBER









ENGINEER OF RECORD



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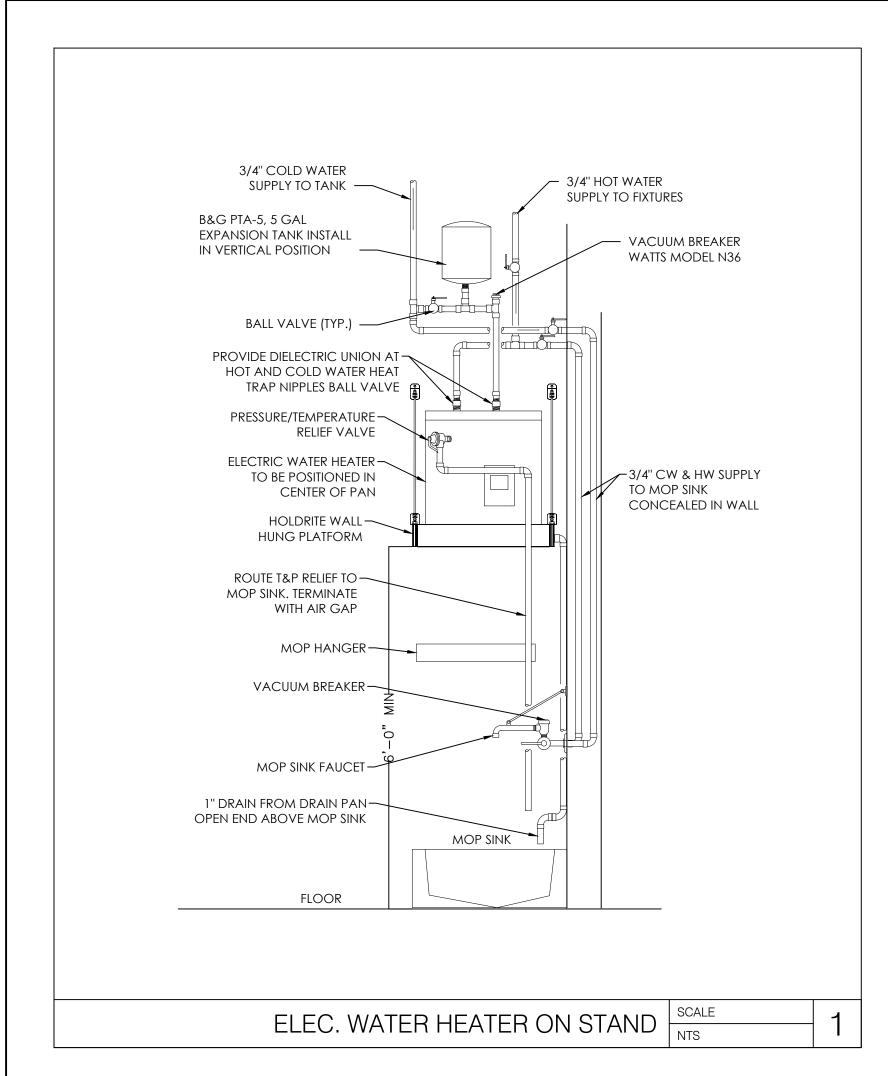
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-	2020.12.21	PERMIT SET

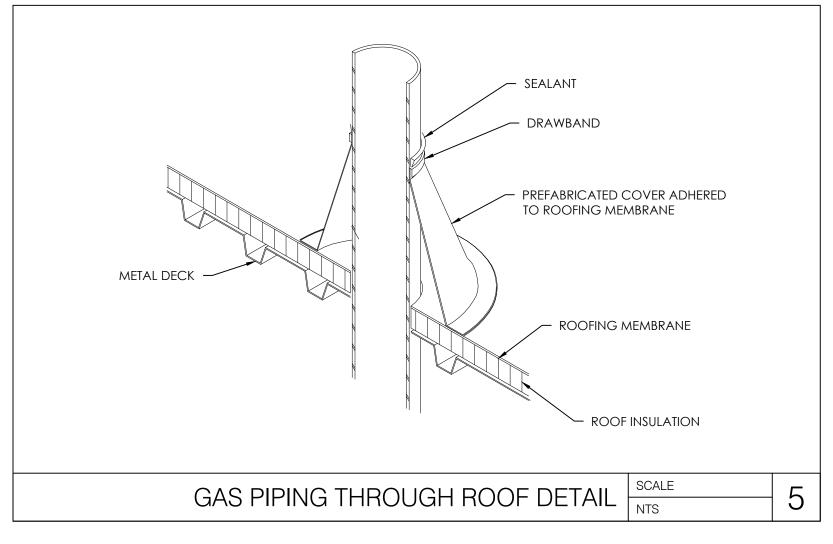
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DR/	AWN BY:	M.BATDC
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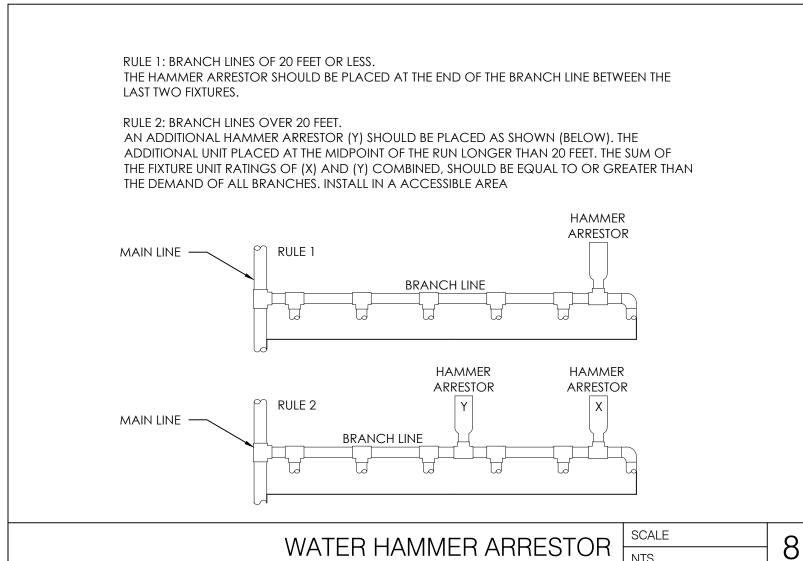
PLUMBING ROOF PLAN

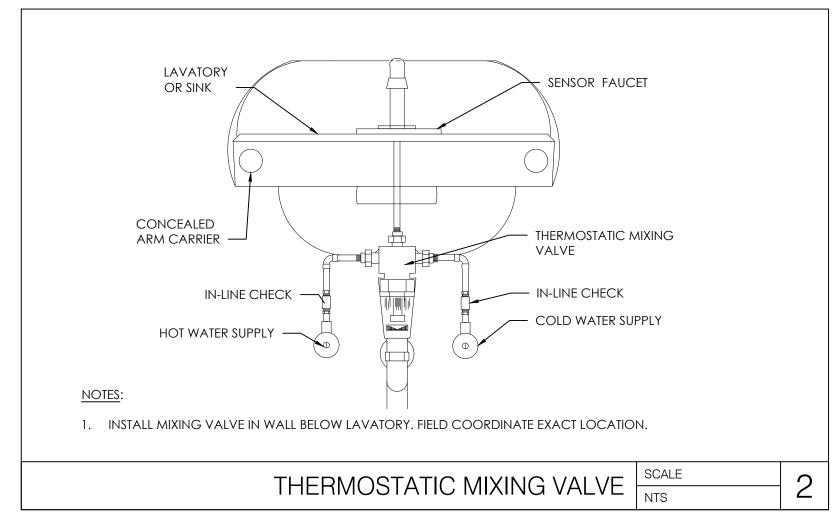
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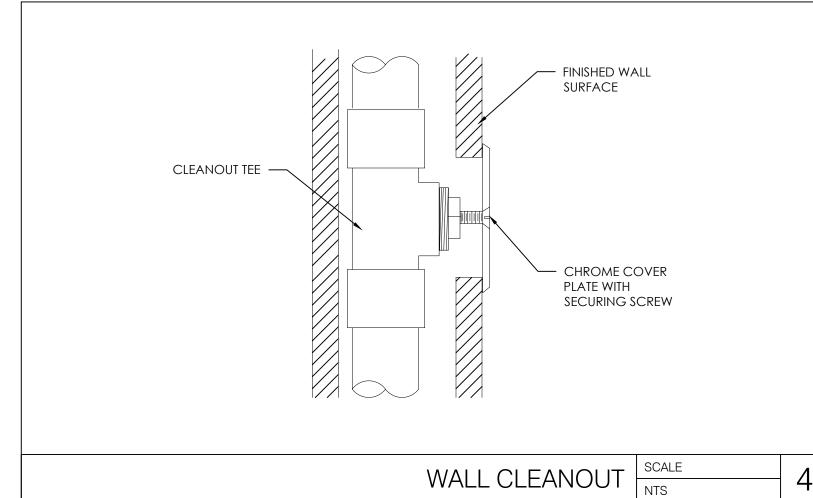
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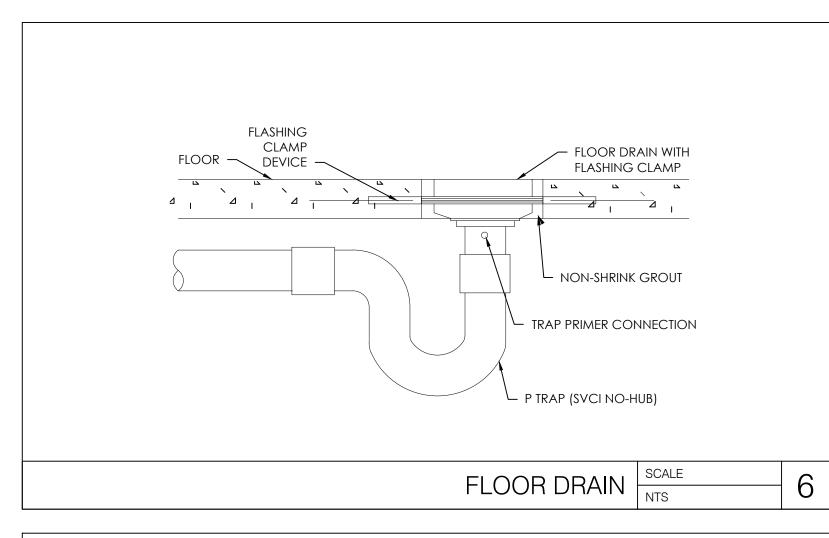


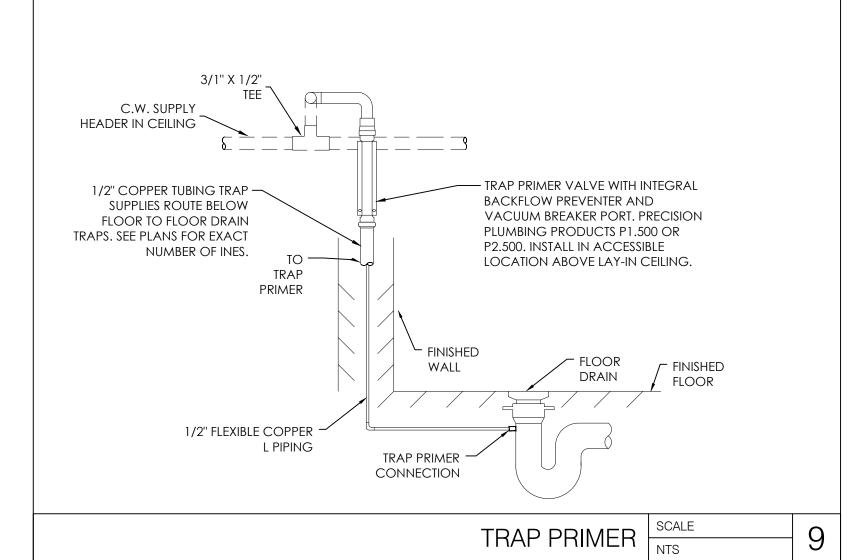


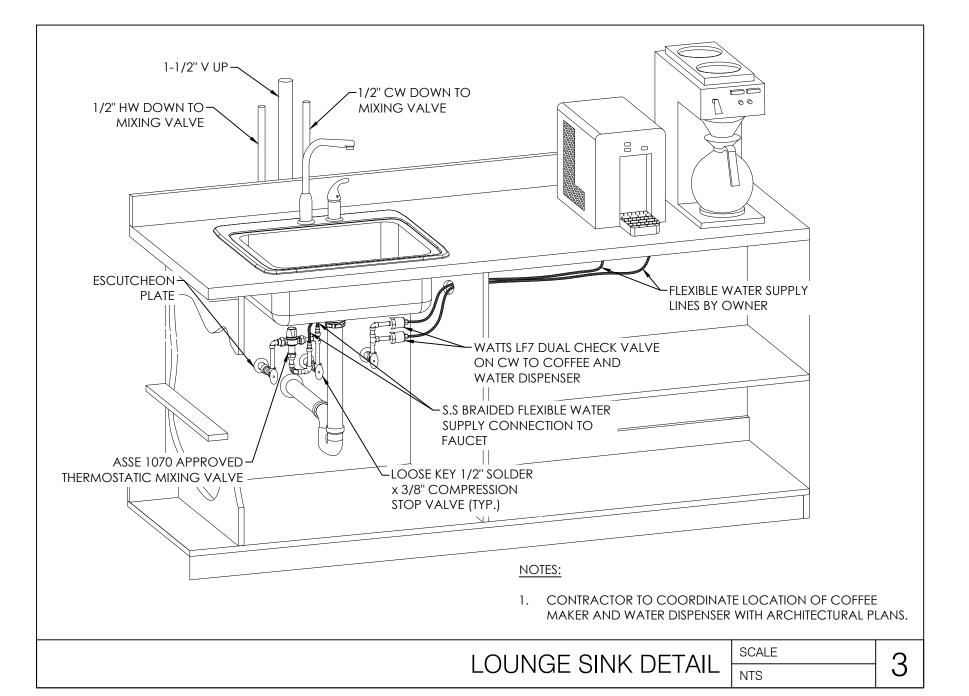


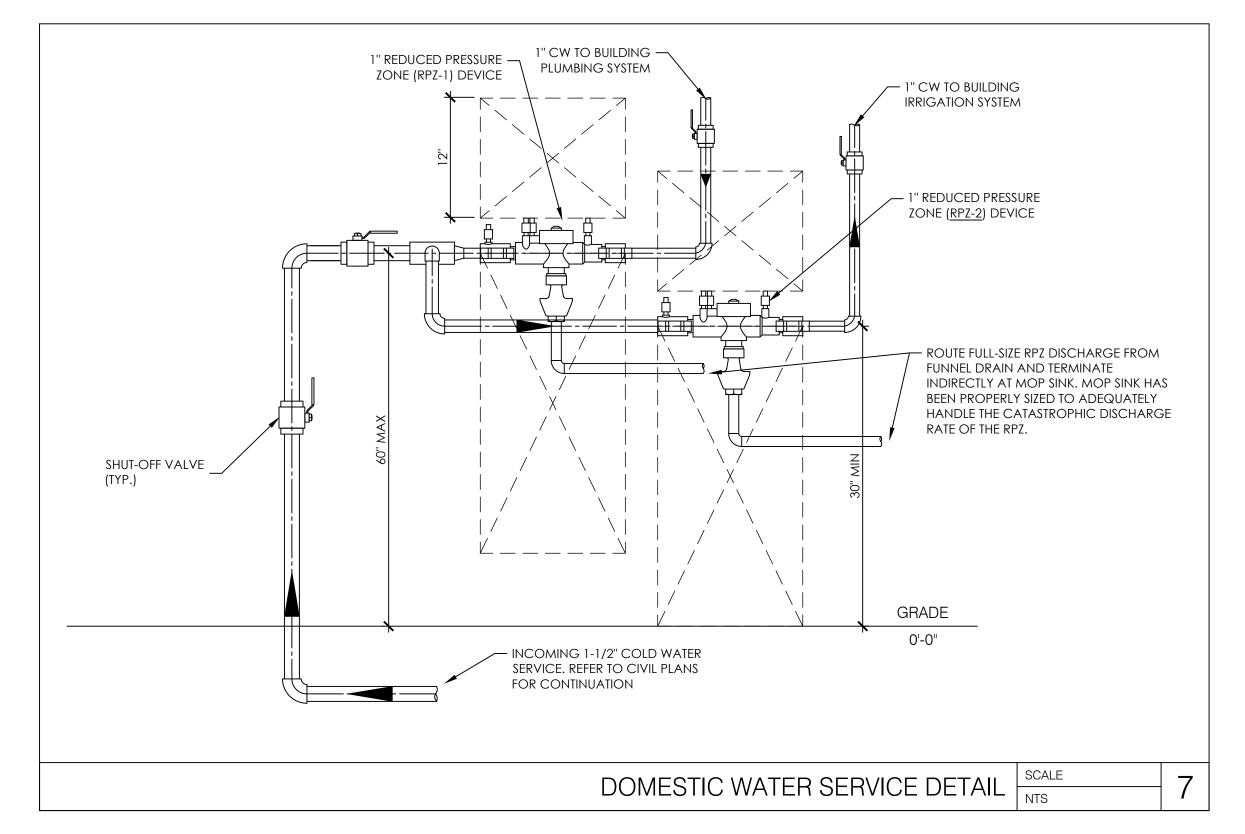






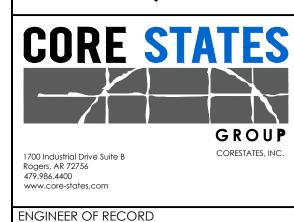














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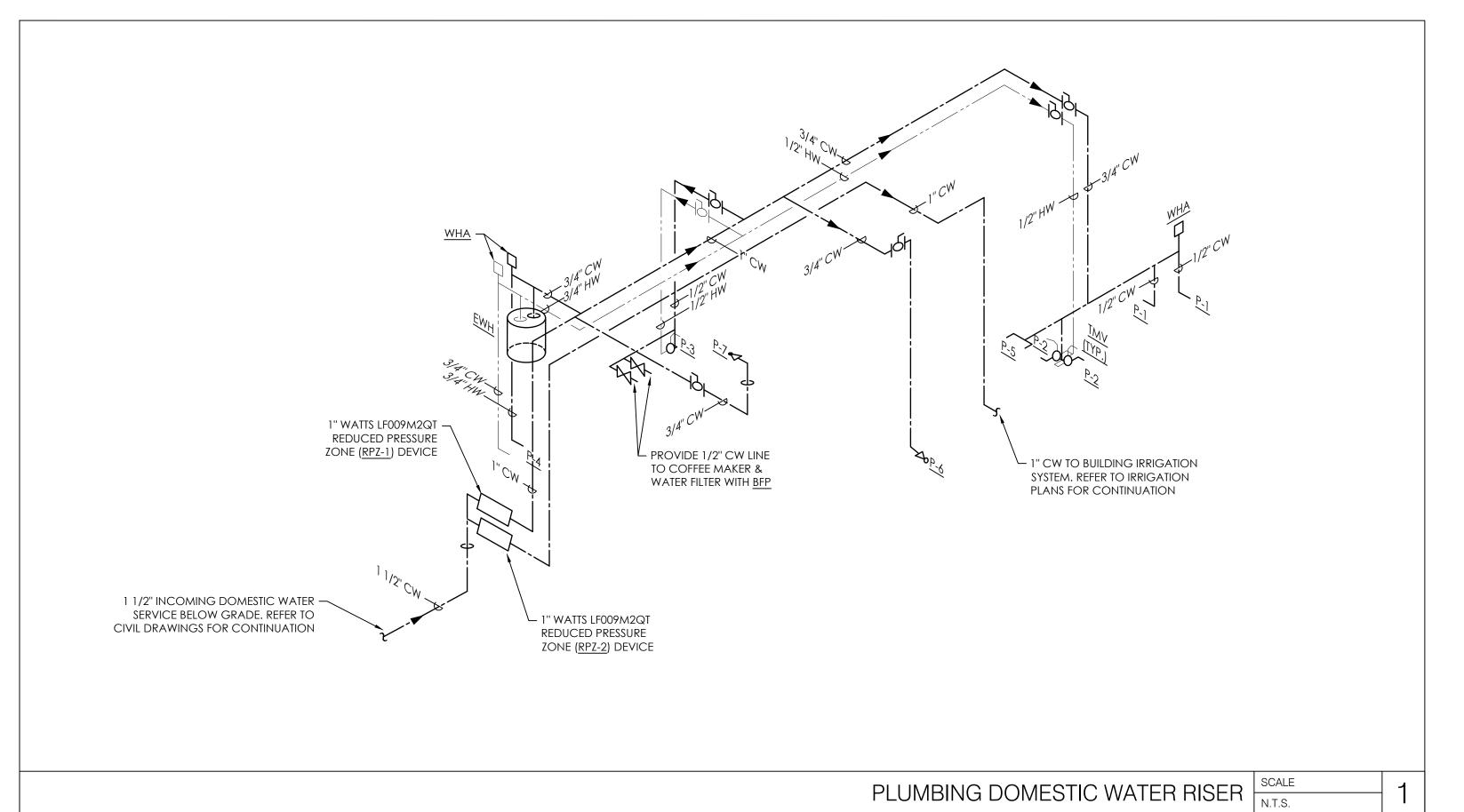
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DR	AWN BY:	m.batdorf
СН	ECKED BY:	S.VAZ
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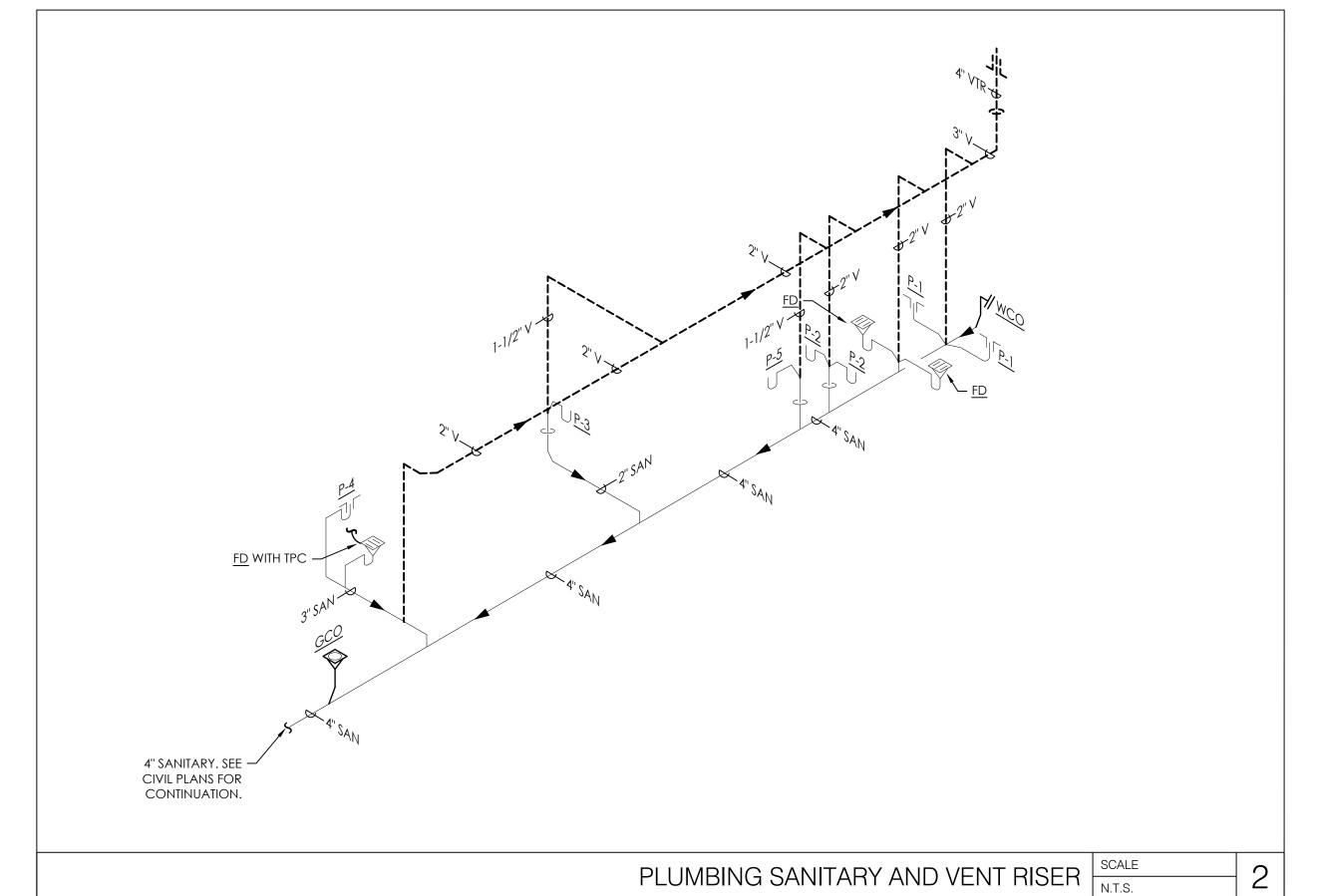
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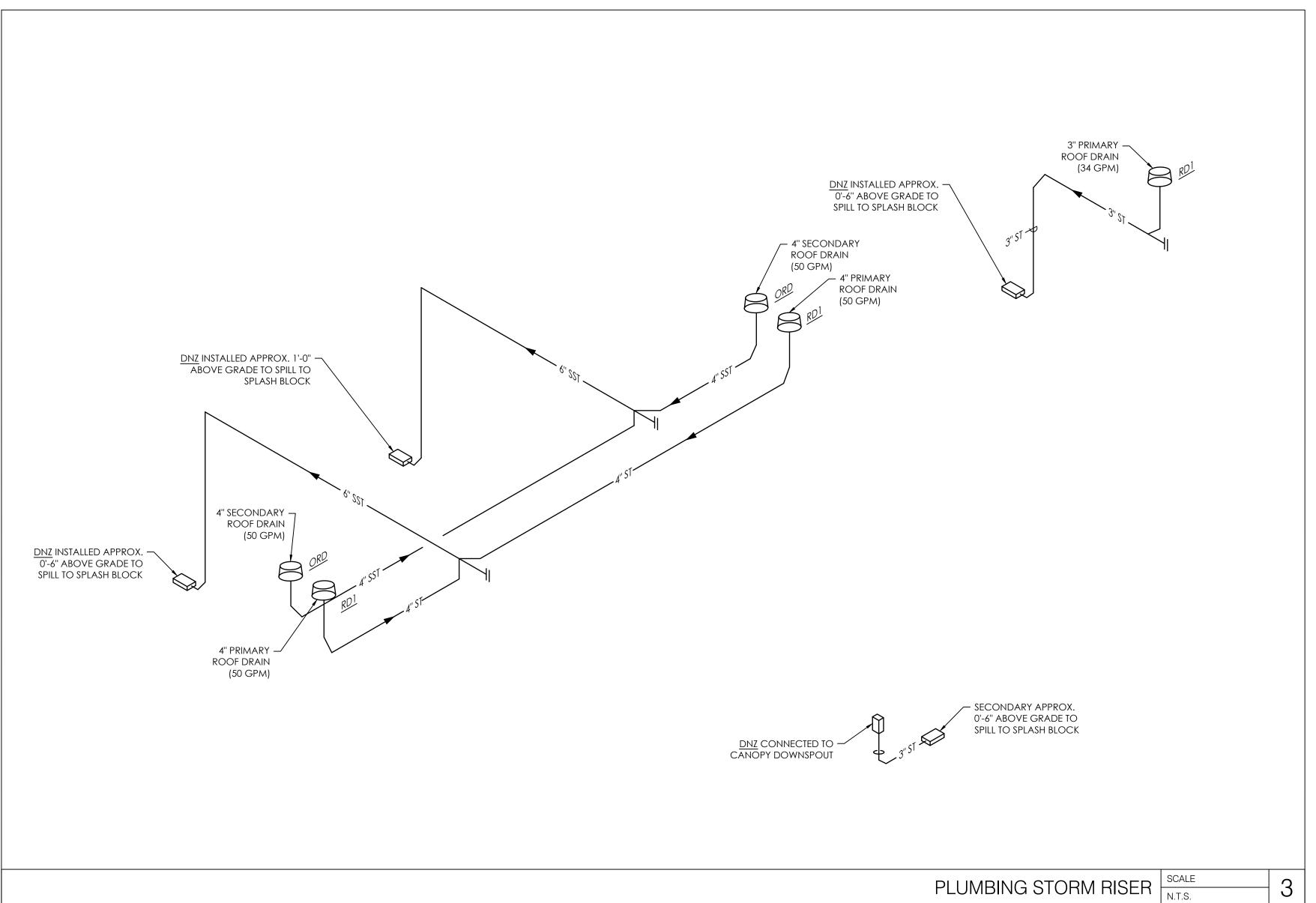
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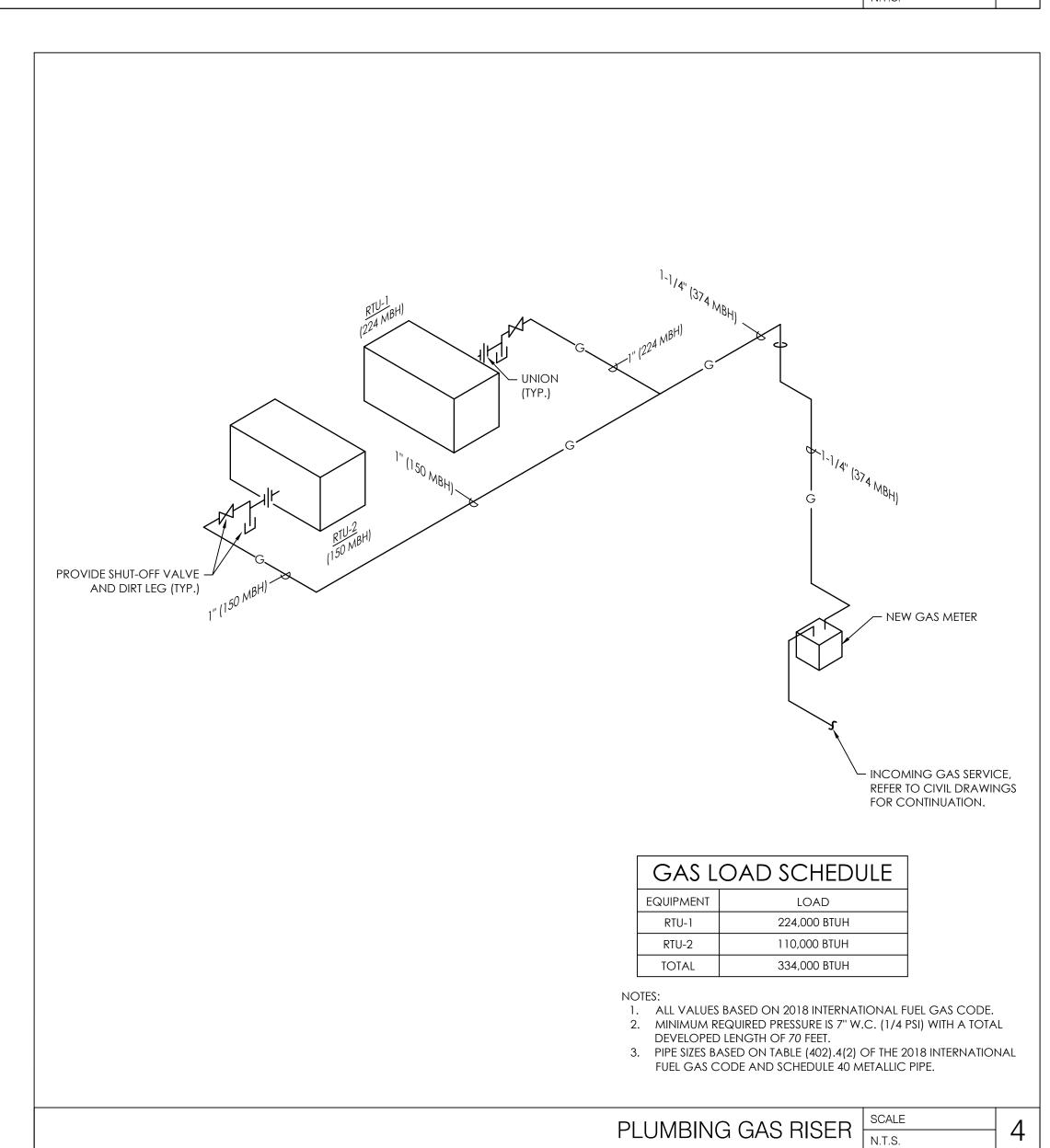
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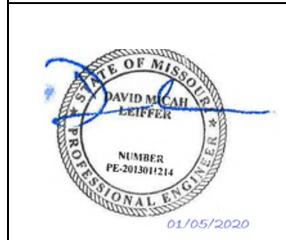




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ENGINEER OF RECORD



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

PROJ	JECT INFO	DRMATION
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PRC	OTOTYPE:	2
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VER	RSION:	SE_1
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PLUMBING RISER DIAGRAMS

SHEET NUMBER

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ABBREVIATIONS AMPERE ABOVE FINISHED FLOOR AIR HANDLING UNIT ATS AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE AWG CIRCUIT BREAKER CLG CEILING CURRENT TRANSFORMER CU COPPER DWG DRAWING EXISTING EQUIPMENT BOARD E.C. ELECTRICAL CONTRACTOR EXHAUST FAN EMERGENCY EMT ELECTRICAL METALLIC TUBING ENCL **ENCLOSURE** ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER 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 HAND DRYER HORSEPOWER ISOLATED GROUND JUNCTION BOX **KCMIL** THOUSAND CIRCULAR MILS KVA KILOVOLT AMPERE KW KILOWATT MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL MLO MTS MANUAL TRANSFER SWITCH NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION POLYVINYL CHLORIDE CONDUIT PVC REF REFRIGERATOR SURGE PROTECTIVE DEVICE SPD SWBD SWITCHBOARD TIME SWITCH TYPICAL UG UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UON UPS UNINTERRUPTIBLE POWER SUPPLY VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE WEATHER PROOF WR WEATHER RESISTANT 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: J (2) DATA CABLE

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

IN-DUCT SMOKE DETECTOR - 120 VOLT - FURNISHED AND WIRED BY DIVISION 16 - INSTALLED BY DIVISION 15

REMOTE ALARM INDICATOR WITH KEY OPERATED TEST SWITCH, LED,

AND RESET - WALL MOUNT 60" AFF TO CENTER

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

- NUMBERS SHOWN ON PLANS ADJACENT TO WIRING DEVICES INDICATE BRANCH CIRCUIT NUMBER.
- 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 \bigcirc

LIGHT FIXTURE: RECESSED 2x2 GRID

LIGHT FIXTURE: GRID-RECESSED LINEAR TROFFER LIGHT FIXTURE: LINEAR SURFACE-MOUNT UPLIGHT

LIGHT FIXTURE: UNDERCABINET WITH INTEGRAL OCCUPANCY SENSOR

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

CEILING OR WALL MOUNTED JUNCTION BOX - UON SIZE AS REQUIRED BY NEC

MOTOR AS INDICATED

SURGE PROTECTIVE DEVICE AS INDICATED

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)

PANELBOARD - BRANCH CIRCUIT TYPE - 120/208V

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).

KEY SWITCH - MOUNTED IN DOOR JAMB

CARD READER - UON BOTTOM MOUNTED

PUSH BUTTON ACTUATOR - UON BOTTOM MOUNTED

KEY PAD - UON BOTTOM MOUNTED

ELECTRIC STRIKE - MOUNTED ON DOOR

AUTOMATIC TELLER MACHINE

AHD - AFTER HOURS DEPOSITORY

ALARM TCD - TELLER CASH DISPENSER ALARM LIGHT/LAMP @ 80" A.F.F., U.O.N.

VAULT

HUB - HOLDUP BUTTON WHUB - WIRELESS HOLDUP BUTTON

ALARM SHUNT SWITCH

MAIN SECURITY PANEL

JUNCTION BOX/MAIN

VIDEO SWITCHER

VIDEO TIMER

VIDEO MONITOR

RADIO @ 12" ABOVE CEILING, (UON)

INTERNAL ATM CAMERA

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 SINGLE POLE SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS

LOWERCASE LETTER INDICATES SWITCHING DESIGNATION DOUBLE POLE SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS

LOWERCASE LETTER INDICATES SWITCHING DESIGNATION THREE WAY SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS

LOWERCASE LETTER INDICATES SWITCHING DESIGNATION FOUR WAY SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS

LOWERCASE LETTER INDICATES SWITCHING DESIGNATION KEYED SWITCH - 20A, 120V - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION

DIMMER SWITCH - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS LOWERCASE LETTER INDICATES SWITCHING DESIGNATION

MOTOR RATED SWITCH WITH TOL - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS

TIMER DELAY SWITCH - REFER TO ARCH DRAWINGS FOR MOUNTING HEIGHTS TIME SWITCH AS INDICATED - UON MOUNT TOP OF ENCLOSURE 66" AFF

PHOTO CELL - COORDINATE MOUNTING LOCATION WITH ARCHITECT

LIGHTING CONTACTOR - ELECTRICALLY HELD - NUMBER OF POLES AS NEEDED OCCUPANCY SENSOR - WALL MOUNTED - SEE SPECIFICATIONS - REFER TO ARCH DRAWINGS FOR

MOUNTING HEIGHTS OCCUPANCY SENSOR - CEILING MOUNTED - SEE SPECIFICATIONS

WAPM)) WIRELESS ADAPTER (WA100-PM)

WGA 100) WIRELESS GENERAL ADAPTER (WGA 100) WIRELESS WALL DIMMER (WWD1)

(RM))) WIRELESS PIR (WOS2-RM-E)

GENERAL NOTES:

REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR ELECTRICAL SYSTEM DEVICE AND FIXTURE LOCATIONS AND ADDITIONAL INFORMATION ON BUILDING ENVELOPE FIXTURES AND DEVICES.

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

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

MOISTURE AND OIL PROOF PVC JACKET.

• 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.

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.

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

ALL LOW VOLTAGE WIRING IN INACCESSIBLE AREAS SHALL BE INSTALLED IN METALLIC CONDUIT.

CONDUIT SYSTEMS INSTALLED ON THE ROOF SHALL BE INSTALLED IN METALLIC CONDUIT AND SUPPORTED EVERY FIVE FEET.

ALL WIRING FOR THE PURPOSE OF EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE

CONDUIT SYSTEM INDEPENDENT OF OTHER SYSTEMS. THERE SHALL BE SEPARATE IDENTIFIED NEUTRAL INSTALLED FOR EACH EMERGENCY LIGHTING CIRCUIT

AND/OR EXIT LIGHTING CIRCUIT. 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.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHT FIXTURE LAMP ORIENTATION.

ALL LIGHTING SHALL BE PROTECTED BY A MAXIMUM 20 AMP CIRCUIT BREAKER.

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.

ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CONNECTED BY MEANS OF A SCREW TERMINAL. 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. DE-RATING OF THE NEUTRAL IS PROHIBITED.

THE USE OF AUXILIARY GUTTERS, WIREWAYS, RACEWAYS, AS ENCLOSURES FOR SERVICE ENTRANCE

OR TAPPING OF SERVICE ENTRANCE CONDUCTORS IS STRICTLY PROHIBITED. METAL IDENTIFICATION TAGS SHALL BE INSTALLED WHERE THE GROUNDING CONDUCTOR IS CONNECTED TO THE GROUNDING ELECTRODE.

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 flusi JUNCTION BOXES AT 8" MIN. AFF AND PROVIDE FLEXIBLE CONDUIT TO PARTITIONS SYSTEM RACEWAY.

REFER TO ARCHITECTURAL DRAWINGS FOR ORIENTATION OF POWER, DATA AND SECURITY SYSTEMS JUNCTION BOXES AND MUD RINGS

REFER TO ARCHITECTURAL DRAWINGS FOR ELECTRICAL, DATA, AND SECURITY DEVICE AND COVER PLATE COLORS.

ISOLATED GROUND RECEPTACLES SHALL BE ORANGE. 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. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY ENFORCED NATIONAL ELECTRICAL

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

THE ELECTRICAL/DATA ROOM MUST BE 100% COMPLETE AT A MINIMUM OF 45 DAYS PRIOR TO CONSTRUCTION COMPLETION/TURNOVER DATE.

LABEL NAMING CONVENTIONS WITH OWNER PRIOR TO INSTALLATION.

UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF. REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS AND MOUNTING HEIGHTS. E.C. TO PROVIDE LABELS ON ALL RECEPTACLES (ELECTRICAL, DATA, AND SECURITY). COORDINATE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021





ENGINEER OF RECORD



01/19/2021

HESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL

WHICH ARE PART OF THE CONTRACT DOCUMENTS.

JOHN FERGUSON, P.E.

LICENSE #: 2008014085

SSUE	DATE	DESCRIPTION
-	2020.12.21	PERMIT SET

PROJECT INFORMATION

PROJECT NO: JPM.27135.001 2020.12.21 **PROTOTYPE** D. BORELLI DRAWN BY: CHECKED BY: D. MULVANEY VERSION: SE_1.00

LEGEND, **ABBREVIATIONS** AND NOTES

SHEET NUMBER

SHEET TITLE

70N E	LOCATION / POOM / FUNCTION	CONTROL FUNCTION					DEMARKS
ZONE	LOCATION / ROOM / FUNCTION	ON	OFF	TYPE	OVER-RIDE TYPE	OVER-RIDE LOCATION	REMARK
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	2 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
OA, 10B	LOBBY GENERAL (SUB-ZONES AS REQUIRED)	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1
1A, 11B	VESTIBULE AND LOBBY ACCENT - COVE STRIPS, ETC. (ALWAYS ON)	NA O	NA	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	
2A, 12B	OFFICE AND CONFERENCE GENERAL LIGHTING	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	1
3A, 13B	BOOTH GENERAL LIGHTING	OCCUPANCY^	VACANCY \	LÎNE VOLTAGE	NOME	NA 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

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

OR SIMILAR AUTOMATIC DIMMING CONTROL REQUIREMENTS ARE ENFORCED BY AN AUTHORITY HAVING JURISDICTION. WHERE NOT REQUIRED, OMIT PHOTOSENSORS AND AUTOMATIC DIMMING.

WHERE LINE VOLTAGE CONTROLS ARE IMPLEMENTED IN LIEU OF DAINTREE CONTROLS. PROVIDE PILOT LIGHT SWITCH WHERE FIXTURES ARE NOT VISIBLE FROM THE SWITCH LOCATION.

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).

PROVIDE IN-ROOM WIRELESS MANUAL DIMMER. PROGRAM FOR 50% DIMMING DURING BRANCH HOURS AND 10% DIMMING AFTER BRANCH HOURS.

SYSTEM DESIGN NOTES: E.C. TO CONTACT AND COORDINATE WITH DAINTREE FOR PROGRAMMING OF SYSTEM AND DEVICES. E.C. TO CONTACT CHASE FACILITY MANAGER FOR LIGHTING ZONE CONTROL PROGRAMMING FOR ALL LIGHTING ZONES PRIOR TO COMPLETION. OMIT ZONE CONTROLLER ('WAPM', ETC.) FOR LIGHTING ZONES WHERE ALL FIXTURES ARE ZIGBEE PROTOCOL-ENABLED. AS NOTED IN THE LIGHT FIXTURE 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 CELLULAR MODEM, WAC, POWER METER AND UPS PROVIDED BY BMS SYSTEM INTEGRATOR AND INSTALLED BY G.C. AT EACH PROJECT. IoT CONTROLLER AND

BMS DEVICE KEY (APPLIES TO ALL SHEETS) WIRELESS OPEN LOOP PHOTO CELL WIRELESS WALL SWITCH: DAINTREE NETWORKS DAINTREE #CES/OD-24-0-10 PLC 24V EXT. PHOTOCELL - WIRE TO WA100-PM

SCHEDULE

EQUIPMENT.

#WWD1. FUNCTION AS SWITCH AND/OR DIMMER. JSE AS MANUAL ON/OFF, MANUAL ON/ AUTO OFF WIRELESS AREA CONTROLLER: DAINTREE #WAC60 WIRELESS OCCUPANCY SENSOR, CEILING UNINTERRUPTABLE POWER SUPPLY #W0S2-RM-E, PIR, 1000 SF COVERAGE 120V, 350VA MIN., PROVIDED BY G.C. WIRELESS PHOTOSENSOR, CEILING-MOUNT: OWNER'S IRRIGATION SYSTEM DAINTREE NETWORKS #WPS1 CONTROL PANEL: WEATHERMATIC ENABLED FOR ZIGBEE WIRELESS

DAINTREE NETWORKS #RWS-BZ-200 RELAY PACK INSTALLED IN ACCESSIBLE JUNCTION BOX ABOVE WIRELESS ADAPTER: DAINTREE NETWORKS WAPM())) #WA100-PM 15A LINE RELAY, 5mA DIMMING CAPACITY (10 DRIVERS TYP.)

WGA))) DAINTREE NETWORKS #WGA10 GENERAL PURPOSE 15A LINE RELAY DAINTREE NETWORKS #WSA10

BMS LOW VOLTAGE WIRED LEAK DETECTOR: BAPI #RBA-BA/LDT1-PS-BB, WIRED TO WGA100 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

DAINTREE #TPZRS/HA1.2 (WALL MOUNT) BMS WIRELESS REMOTE TEMP. SENSOR: TS ()) DAINTREE #TPZRS/HA1.2 (CEILING MOUNT) BMS LOW VOLTAGE WIRED HUMIDITY SENSOR: VARIS #HEW3VSTA, WIRED TO WSA10 TITAN #TPZDS-S OR SIMILAR

ETHERNET SWITCH PROVIDED BY BMS SYSTEM INTEGRATOR AND INSTALLED

BY G.C. ONLY WHEN REQUIRED BY PROJECTS WITH VAV/VVT/SIMILAR HVAC

BMS WIRELESS DUCT TEMP. SENSOR: BMS HARDWIRED EQUIPMENT TEMP. SENSOR: DAINTREE #RBA-BA/10K-2-86

PROTOCOL, BY OWNER'S LANDSCAPER

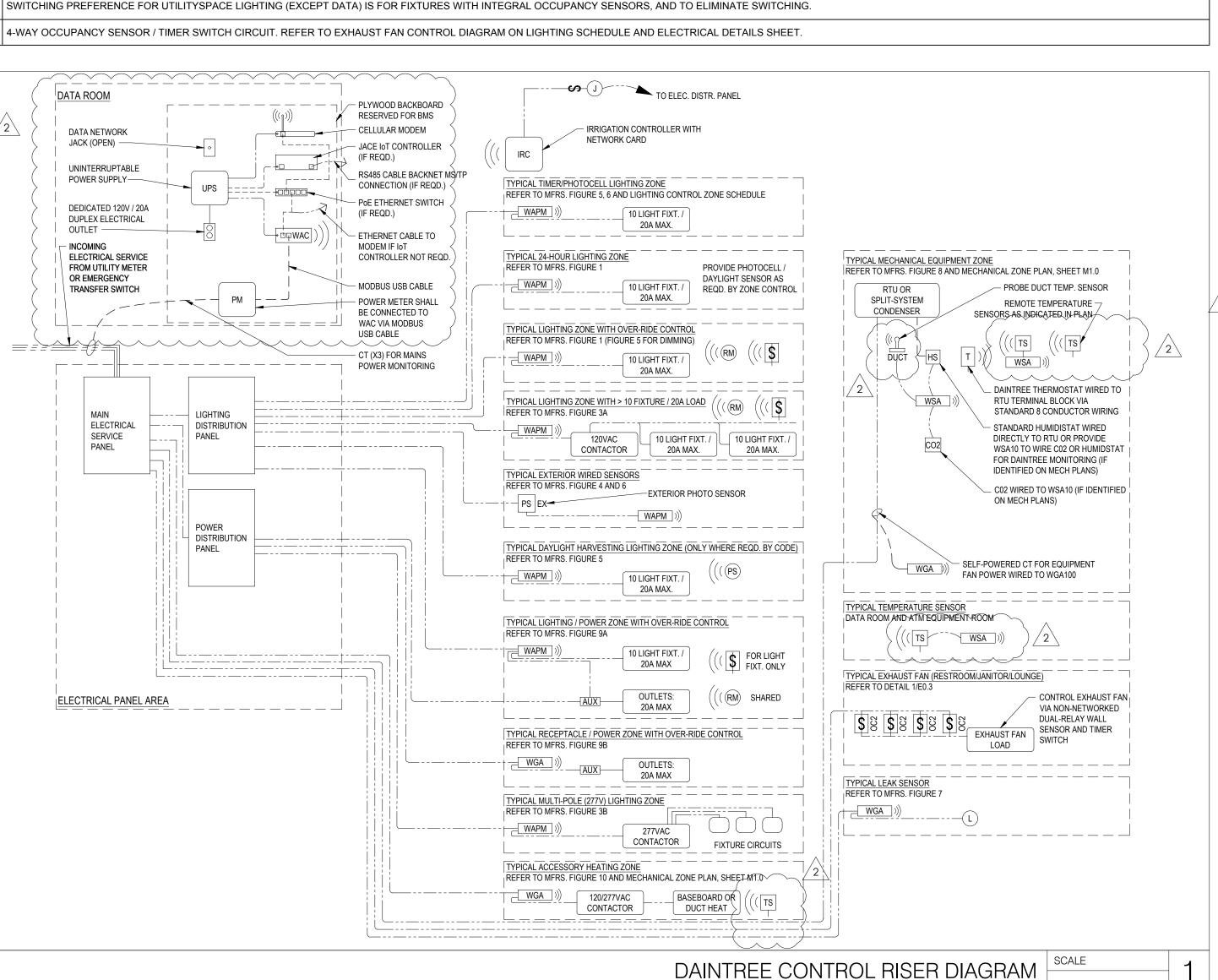
PM 3-POLE: DAINTREE #RDN-PS3037-S-N

BMS WIRELESS THERMOSTAT:

DAINTREE NETWORKS #WTS10

24-POLE: DAINTREE #RDN-PS24-D

BMS WIRELESS REMOTE TEMP. SENSOR:



BUILDING ENERGY MANAGEMENT SYSTEM (BMS) GENERAL INSTALLATION NOTES

1. INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF $\;\;|\;\;$ 1. COORDINATION WITH THE BMS VENDOR IS REQUIRED. ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS | VENDOR 30 DAYS IN ADVANCE OF THE BID DATE THAT AND MEET THE FUNCTIONAL REQUIREMENTS OF THE

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

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 | 5. EMERGENCY LIGHT FIXTURES WITH BATTERY PACKS ARE SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: NOT INDICATED FOR SEPARATE ZONE CONTROL, BUT SHALL 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 | 8. ROOF CENTRIFUGAL EXHAUST FAN IS NOT CONTROLLED TO PLACE SENSORS WITH NO OR MINIMAL VIEWING BY BMS. REFER TO EXHAUST FAN CONTROL DIAGRAM ON 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

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 | SINGLE CONTROLLED DUPLOEX WALL OUTLET. ALL LOBBY INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT | AND PRINT ROOM CONVENIENCE RECEPTACLES (NOT 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

THE ARCHITECT/ENGINEER OF RECORD SHALL ADVISE THE 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

2. WHERE REQUIRE BY AUTHORITIES HAVING JURISDICATION, PROVIDE CONTROL DEVICES AND CIRCUITING AS REQUIRED TO COMPLY WITH ENERGY EFFICIENCY CODE(S) ONLY WHERE APPLICABLE.

ENGINEER AND ELECTRICAL ENGINEER BEFORE BID.

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.

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

7. EXIT LIGHT FIXTURES ARE EXCLUDED FROM BMS ZONE

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

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

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 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.





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46 East Main Street Suite 201 Somerville, NJ 08876 908.462.9700



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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

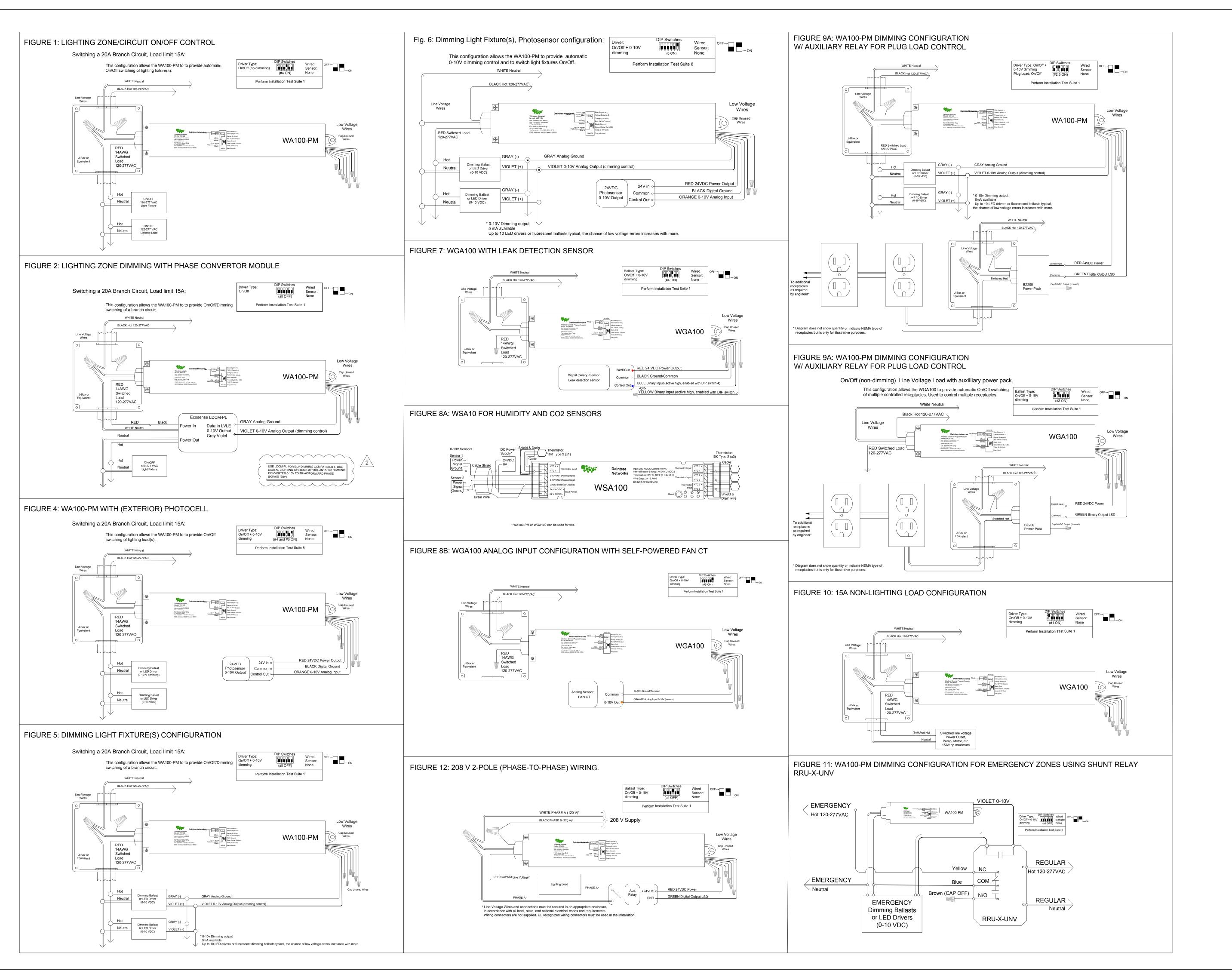
2 2021.06.03 PLAN REVIEW COMMENTS, RDC21 & WIRELESS UPDATE

PROJECT INFORMATION

PROJECT NO: JPM.27135.001 2020.12.2 **PROTOTYPE** D. BORELL DRAWN BY CHECKED BY: D. MULVANEY VERSION: SF 1.00 SHEET TITLE

BUILDING MANAGEMENT SYSTEM DETAILS

SHEET NUMBER





IP MORGAN CHASE, N.A
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
890 NE LANGSFORD RD

GROUP

46 East Main Street Suite 201
Somerville, NJ 08876
908.462.9700
www.core-states.com



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- 2020.12.21 PERMIT SET

1 2021.04.20 STRUCTURAL STEEL REV

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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

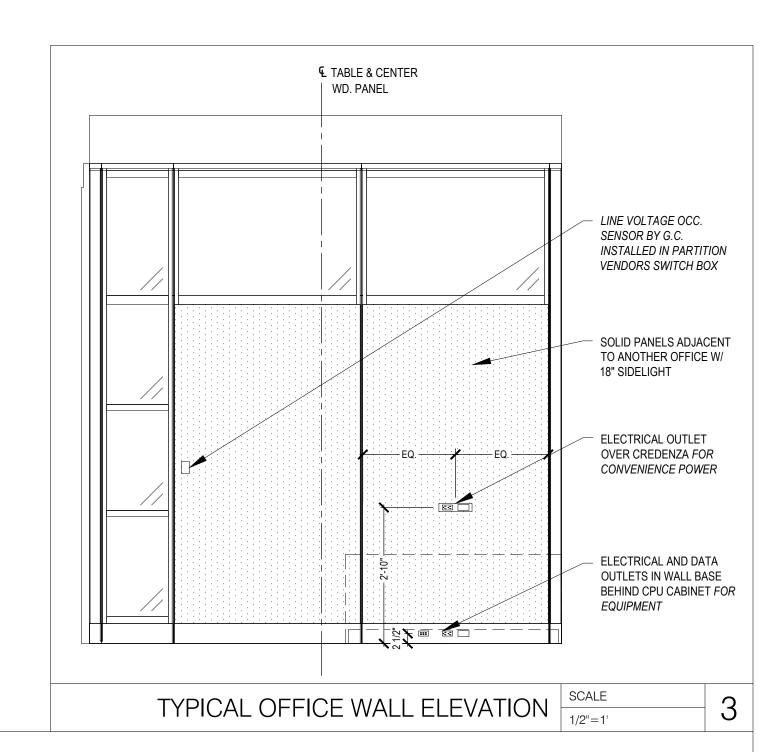
VERSION: SE 1.00

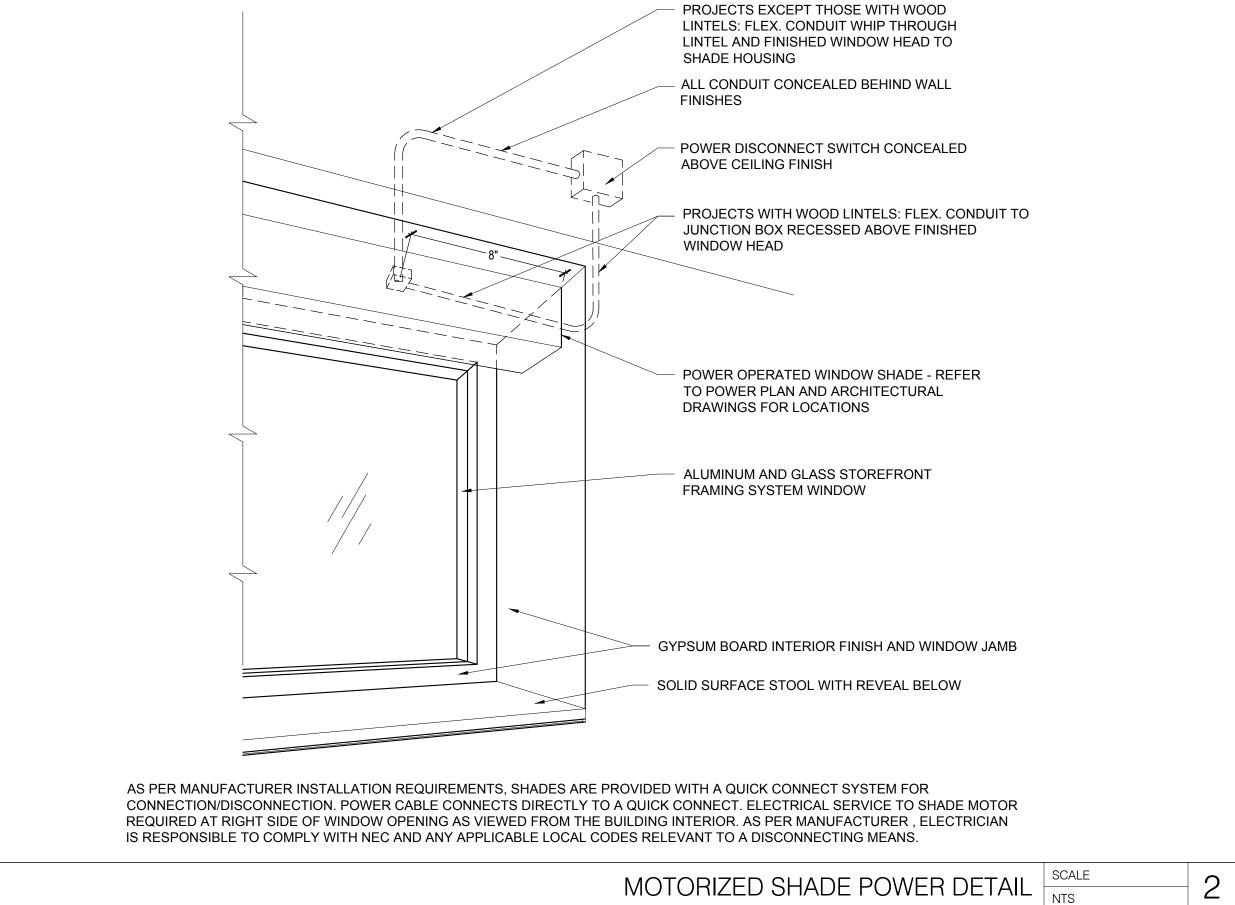
BMS DEVICE WIRING DIAGRAMS

SHEET NUMBER

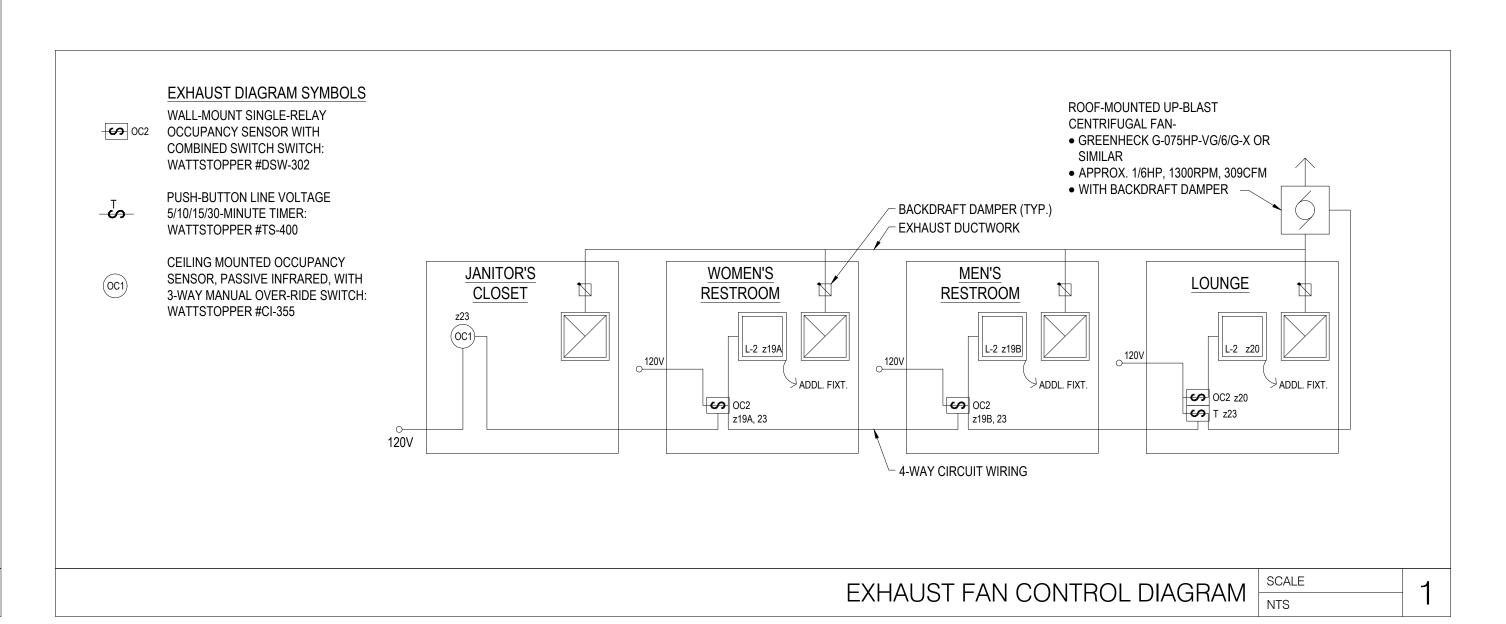
SHEET TITLE

E0.2





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 DOWNL
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 SENSO
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 DRIVE
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, W SINGLE REMOTE 19W 0-10V DIMMING POWER SUPPLY SHARED E FIXTURES. SCREEN LENS TO ILLUMINATE ADJ. WALL AND CEILIN
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 - REFERELECTRICAL LIGHTING PLAN FOR INVERTER INFORMATION
L8	GE	ALC6-1-4Y04-T-C8-1D-S-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 CE 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 FL (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 FI (MBB) IN WOOD ACCENT CEILINGS
L20	BEST LIGHTING	EZXTEU-1-RW-EMRC	6	6 UNIVERSAL 120		4	LED	UNIVERSAL MOUNT SINGLE FACE LED EXIT SIGN WITH 90 MIN BA 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 BA
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, WHE MOUNTED ABOVE ACT-3, USE MOUNTING TRACK MODEL #120-00 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 ACT-3, USE MOUNTING TRACK MODEL #1MNT-L-TRKCLIP-12 OR I MINIMIZE BLEEDING THROUGH TILE
L410	KUZCO	UZCO PD46216-BK		PENDANT	120	40	3000K LED	16" DIAMETER BLACK POWDER COAT FINISH, INTEGRAL LED DE INSTALLED AT 82" AFF TO BOTTOM OF FIXTURE; SET DIMMING PE ZONE CONTROL SCHEDULE
L411	TUDO	LARGE SPINNING TEARDROP CEILING PENDANT	3	PENDANT	120	60	LED	15.75" DIAMETER, MATTE BLACK, 640 LED LAMP, ELV DIMMING, INS AT 66" AFF TO BOTTOM OF FIXTURE
L413	SONNEMAN	SONNEMAN 2754.25-G		PENDANT	120	10	LED	KOMO EDO PENDANT - 22" DIAMETER, BLACK SATIN FINISH, ELV D 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' MININ 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





JP MORGAN CHASE, N.A HWY 291 & NE LANGSFORD RD 890 NE LANGSFORD RD



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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 INTORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

DRAWN BY: D. BORELLI

CHECKED BY: D. MULVANEY

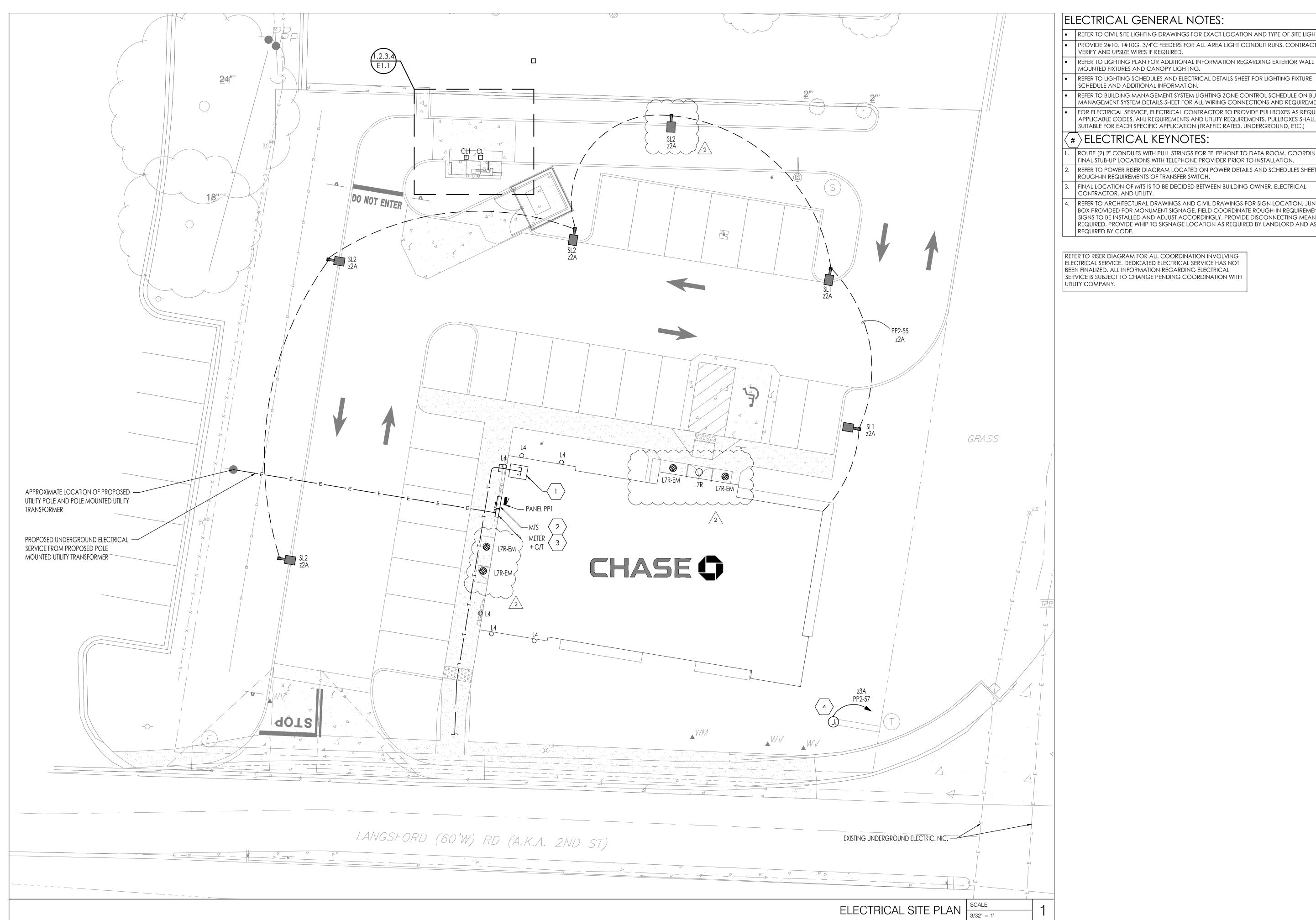
VERSION: SE_1.00

SHEET TITLE

LIGHTING SCHEDULE AND ELECTRICAL DETAILS

SHEET NUMBER

E0.3



- 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.
- 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:

- ROUTE (2) 2" CONDUITS WITH PULL STRINGS FOR TELEPHONE TO DATA ROOM. COORDINATE FINAL STUB-UP LOCATIONS WITH TELEPHONE PROVIDER PRIOR TO INSTALLATION.
- REFER TO POWER RISER DIAGRAM LOCATED ON POWER DETAILS AND SCHEDULES SHEET FOR ROUGH-IN REQUIREMENTS OF TRANSFER SWITCH.
- FINAL LOCATION OF MTS IS TO BE DECIDED BETWEEN BUILDING OWNER, ELECTRICAL CONTRACTOR, AND UTILITY.
- 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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> JOHN FERGUSON, P.E. MISSOURI LICENSE #: 2008014085

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

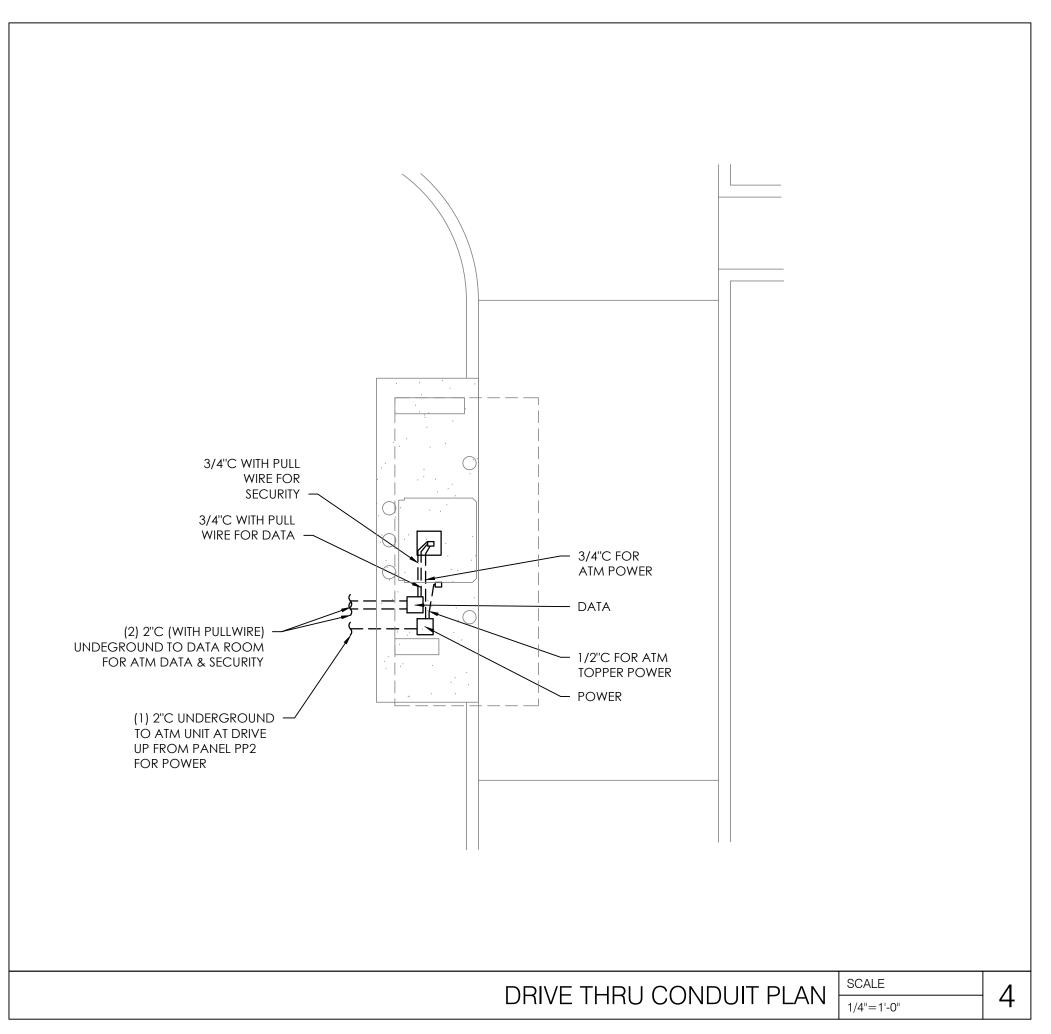
PROJECT INFO	ORMATION
PROJECT NO:	JPM.27135.00
DATE:	2020.12.2
PROTOTYPE:	20.2
DRAWN BY:	D. BORELL
CHECKED BY:	D. MULVANE
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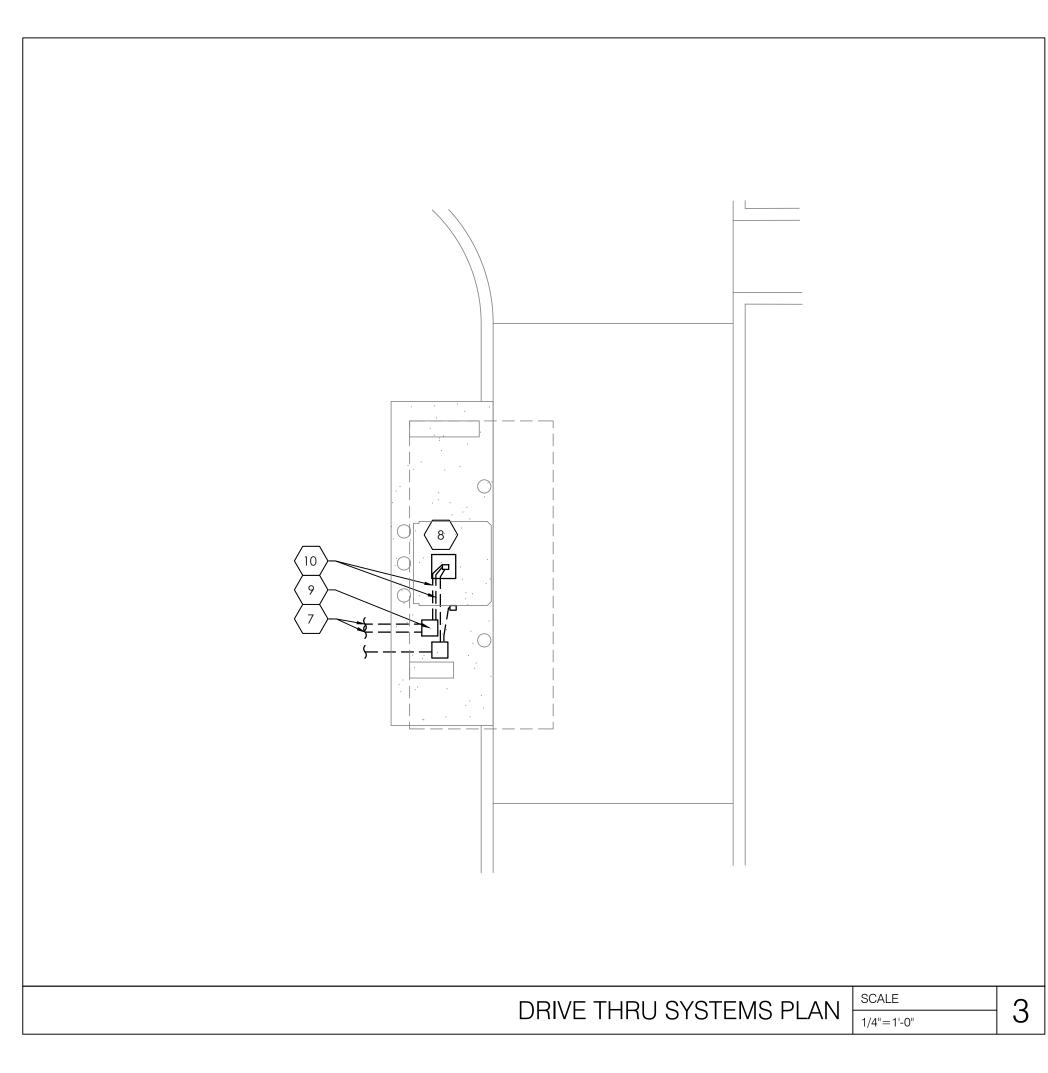
ELECTRICAL SITE PLAN

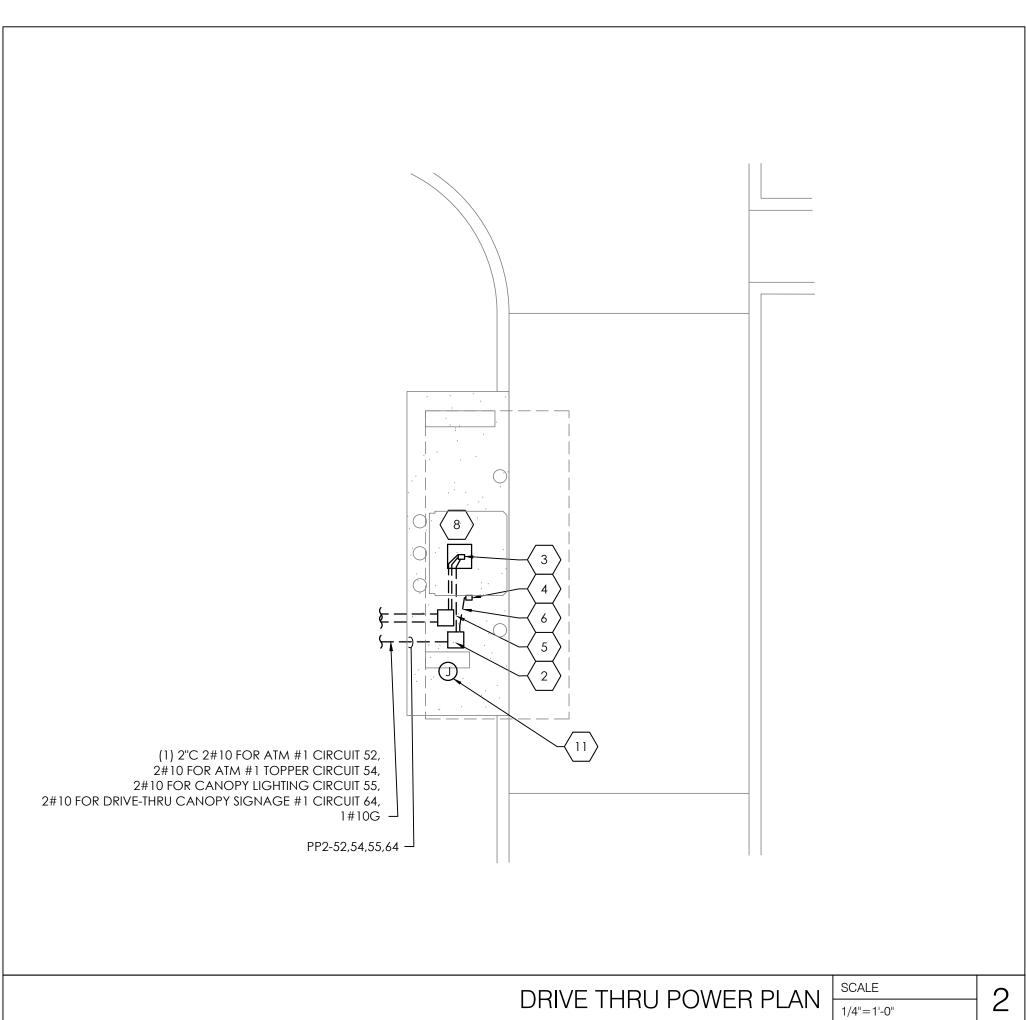
SHEET NUMBER

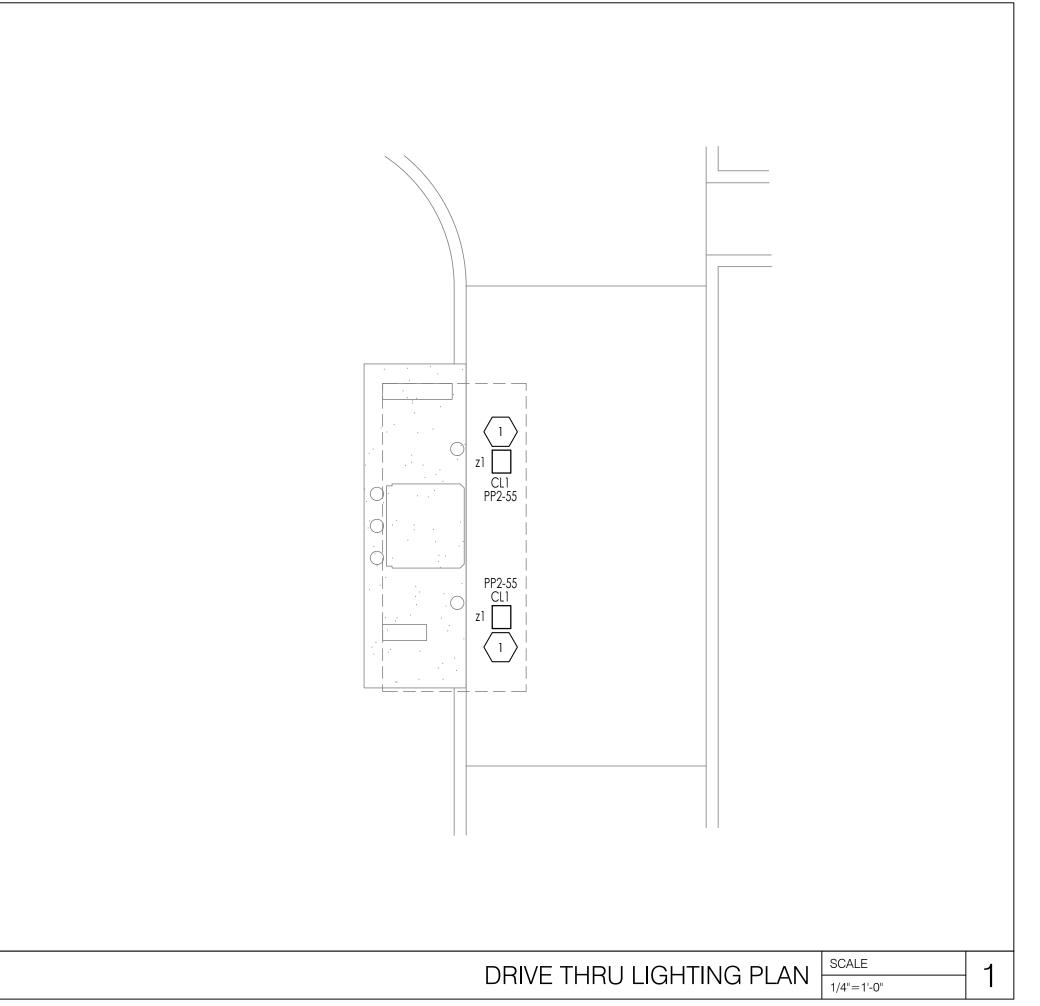
SHEET TITLE

E1.0









- 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:

- CANOPY FIXTURES ARE TO BE CONTROLLED BY OUTDOOR PHOTOCELL, DAINTREE #RLV-ODCOP-W. REFER TO BUILDING MANAGEMENT SYSTEMS DETAILS SHEET FOR ADDITIONAL
- POWER PULL BOX 8"X8"X6" PVC PULL BOX WITH SIDEWALK RATED GASKET TOP SECURED WITH
- SCREWS.
- 4. ATM TOPPER PULL BOX 2"X4"X2" PVC PULL BOX MOUNTED FLUSH IN CONCRETE.

ATM PULL BOX - 12"X12"X6" PVC PULL BOX MOUNTED FLUSH IN CONCRETE.

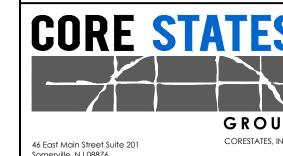
- 5. 3/4" CONDUIT FROM POWER PULL BOX TO ATM PULL BOX FOR POWER TO ATM. PROVIDE 3/4" NON-METALLIC LIQUID-TIGHT CONDUIT FOR POWER INTO ATM.
- 6. 1/2" CONDUIT FROM POWER PULL BOX THROUGH ATM PULL BOX TO ATM TOPPER PULL BOX FOR POWER TO ATM TOPPER. PROVIDE 1/2" NON-METALLIC LIQUID-TIGHT CONDUIT FOR POWER INTO
- (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.

 REFER TO UNDERGROUND CONDUIT PLAN FOR UNDERGROUND CONDUIT AND CABLING
- ROUTING FOR DEVICES IN THIS AREA.

 DATA PULL BOX 8"x8"x6" PVC PULL BOX WITH SIDEWALK RATED GASKET TOP SECURED WITH
- (2) 3/4" CONDUITS WITH PULL WIRE FROM DATA PULL BOX TO ATM PULL BOX FOR DATA AND
- 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.

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01/19/2021

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JOHN FERGUSON, P.E. MISSOURI LICENSE #: 2008014085

ISSUE DATE DESCRIPTION
- 2020.12.21 PERMIT SET

PROJECT INFORMATION

PROJECT NO: JPM.27135.001

DATE: 2020.12.21

PROTOTYPE: 20.2

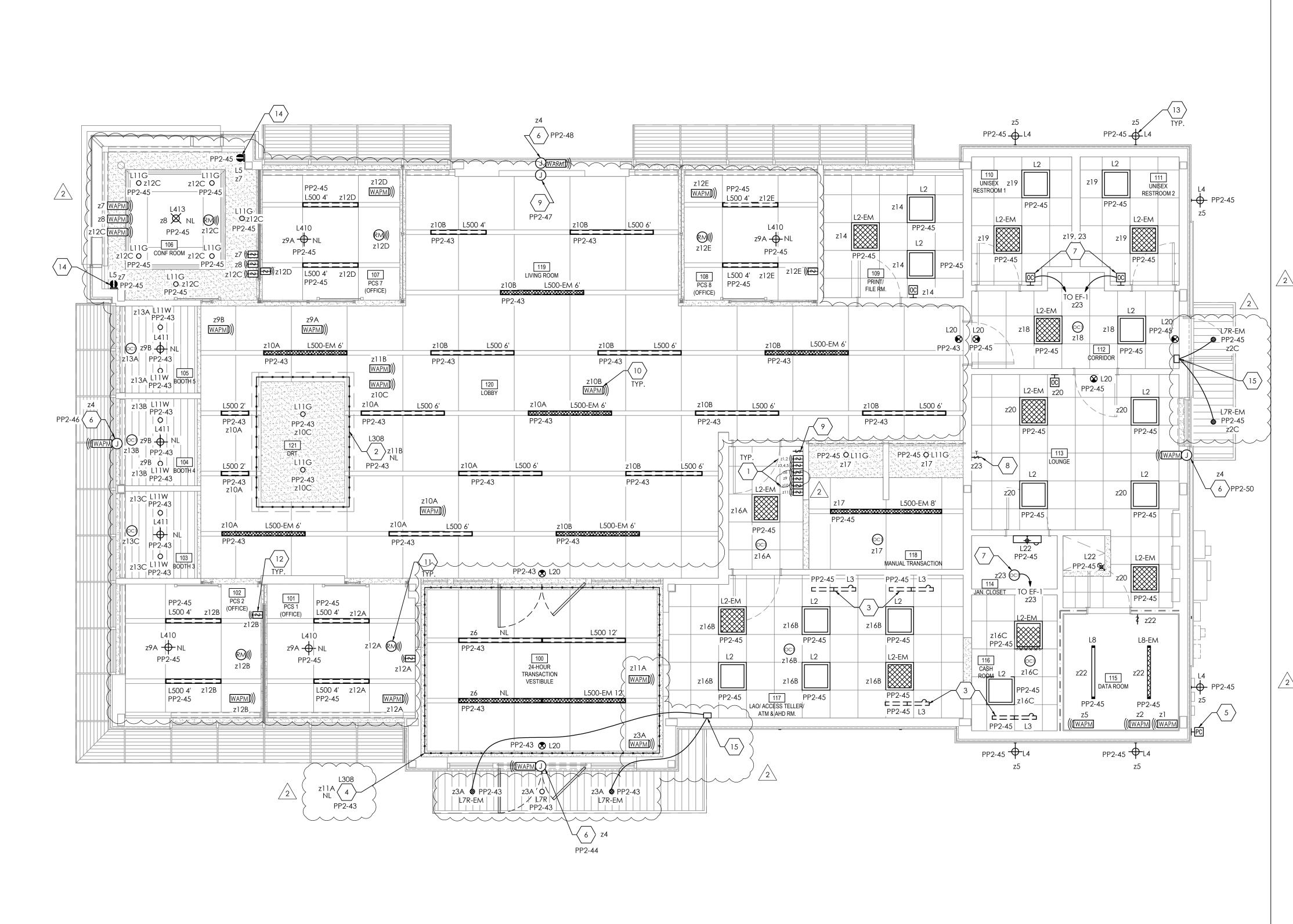
DRAWN BY: D. BORELL

CHECKED BY: D. MULVANEY
VERSION: SE_1.00
SHEET TITLE

DRIVE-THRU PLANS

SHEET NUMBER

E1.1



- 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
- SECURELY FASTEN EACH RECESSED GRID LIGHT FIXTURE TO THE CEILING SYSTEM WITH APPROPRIATE SUPPORT BRACKETS AND CLIPS PER INDUSTRY STANDARDS, CODE AND ALL LOCAL
- 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:

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
- . 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

LIGHTING PLAN SCALE 1/4" = 1'

FOR GENERAL SUPPORT:

E-mail: JPMCcontrols@gecurrent.com

RELEASE FOR
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
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08/13/2021

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890 NE LANGSFORD RD
1EE'S SUMMIT, MO 64063



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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

PRO.	JECT INFO	DRMATION
PRO	DJECT NO:	JPM.27135.0
	00200.	
DA		2020.12.
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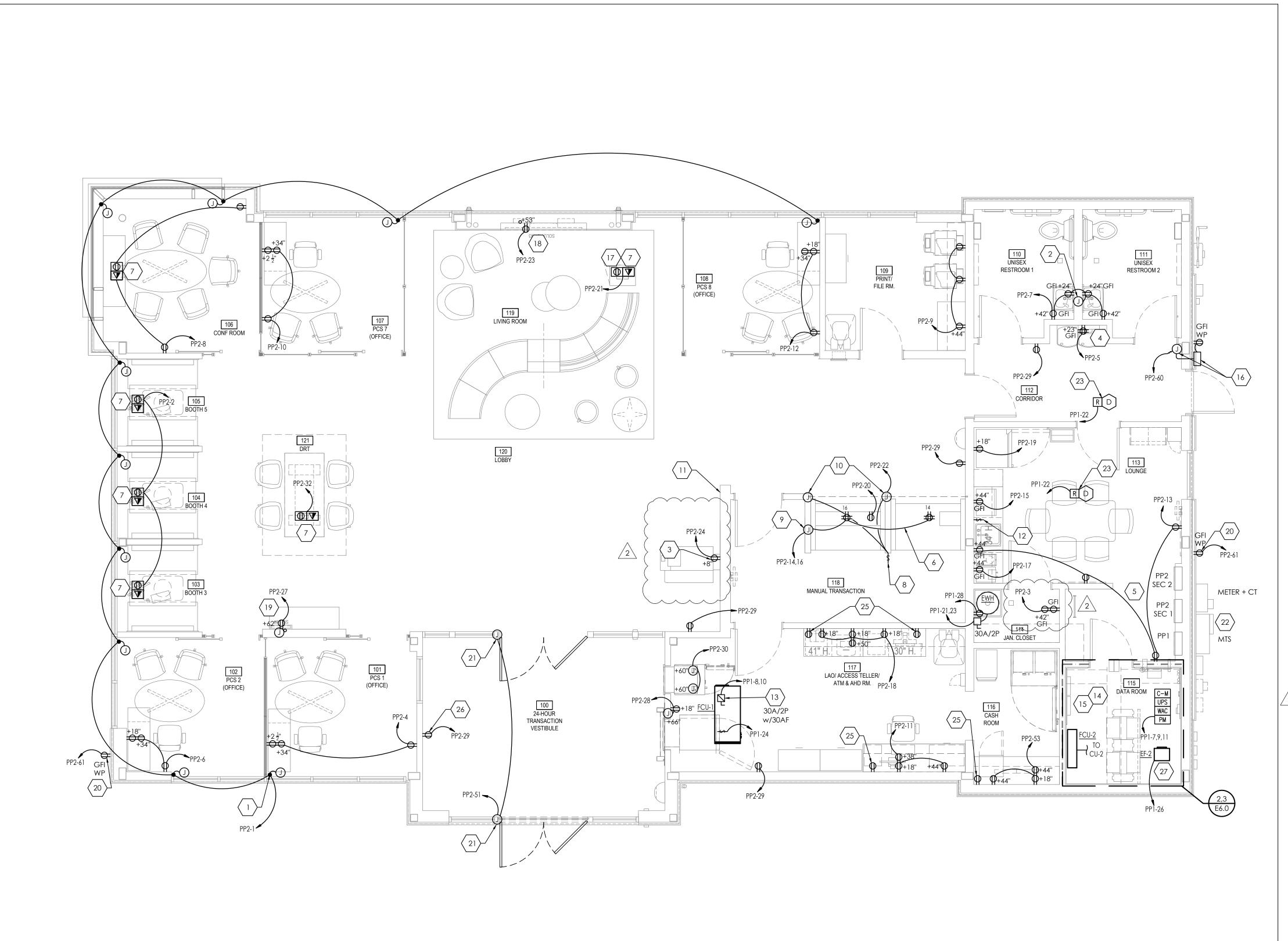
LIGHTING PLAN SE 1.00

SHEET NUMBER

VERSION:

SHEET TITLE

E2.0



- 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:

- 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.
- 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.
- INSTALLATION.

 4. COORDINATE ROUGH-IN LOCATION FOR DRINKING FOUNTAIN RECEPTACLES WITH SHOP
- 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 GTLDESIGNER.
- 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 RECÉPTACLÉ 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
- 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.
- 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

POWER PLAN SCALE 1/4" = 1'

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.



MORGAN CHASE, N.A
HWY 291 & NE LANGSFORD RD
890 NE LANGSFORD RD
1EE'S SUMMIT, MO 64063



46 East Main Street Suite 201 Somerville, NJ 08876 908.462.9700

NGINEER 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. BORELL

CHECKED BY: D. MULVANEY

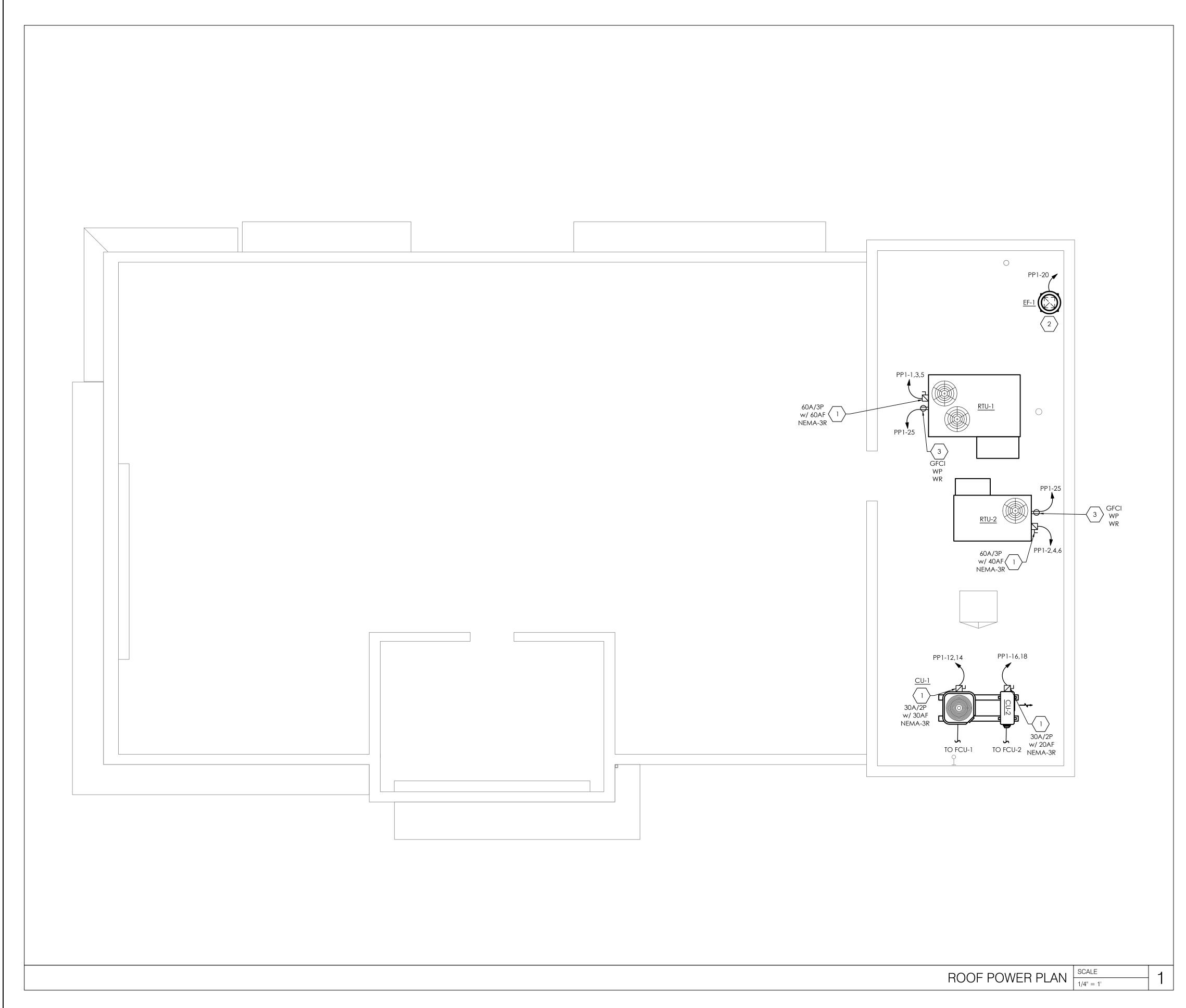
VERSION: SE 1.00

POWER PLAN

SHEET NUMBER

SHEET TITLE

F3.0



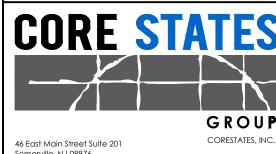
- FAN COIL UNIT 2 SHALL BE POWERED THROUGH THE CORRESPONDING CONDENSING UNIT ON THE ROOF. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
- RTU'S PROVIDED WITH POWERED RECEPTACLE. IF UNIT IS NOT PROVIDED WITH RECEPTACLE, PLEASE PROVIDE AS INDICATED. REFER TO MECHANICAL SCHEDULE SHEET FOR ADDITIONAL INFORMATION.

$\langle \# \rangle$ 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.
 - 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.
 - 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).

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/13/2021





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01/19/2021

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JOHN FERGUSON, P.E. MISSOURI LICENSE #: 2008014085

- 2020.12.21 PERMIT SET

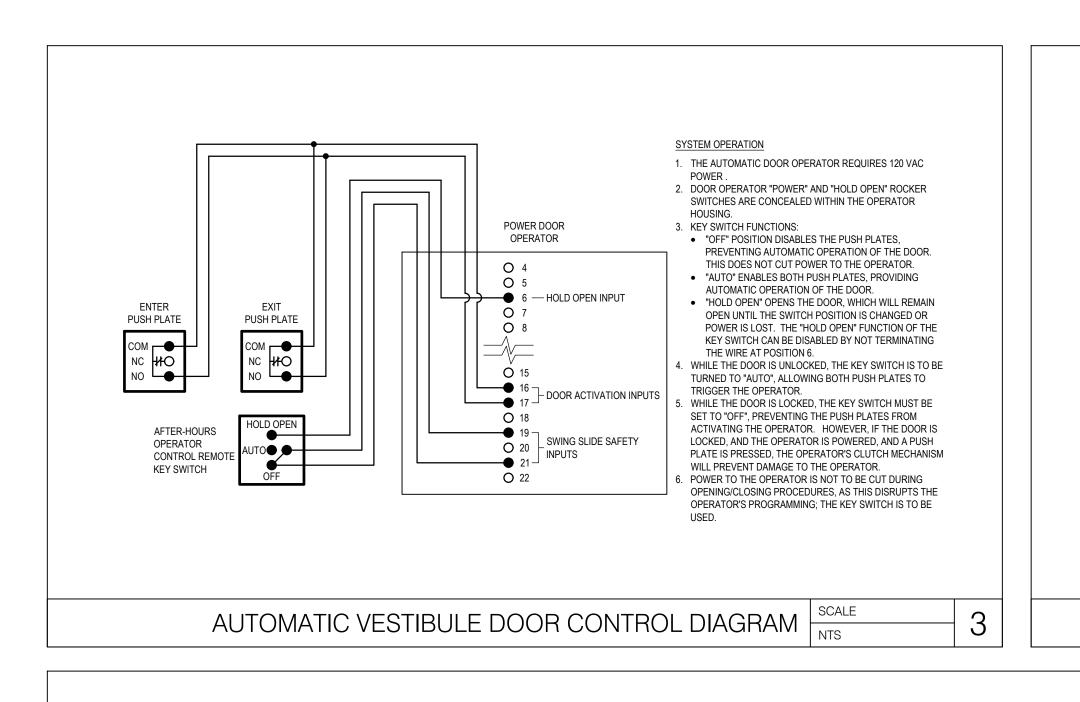
PRO.	JECT INFO	ORMATION	
PRO	DJECT NO:	JPN	M.27135.00
DA	TE:		2020.12.2
PRC	OTOTYPE:		20.2
DR	AWN BY:		D. BORELL
CH	ECKED BY:	D.	MULVANE'

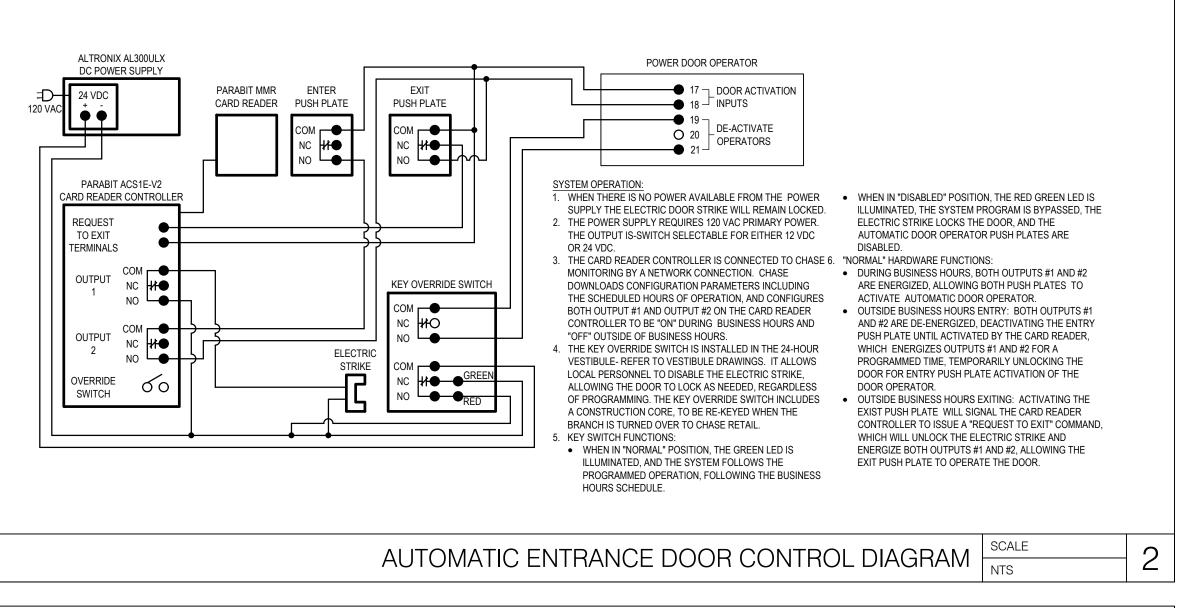
ROOF POWER PLAN

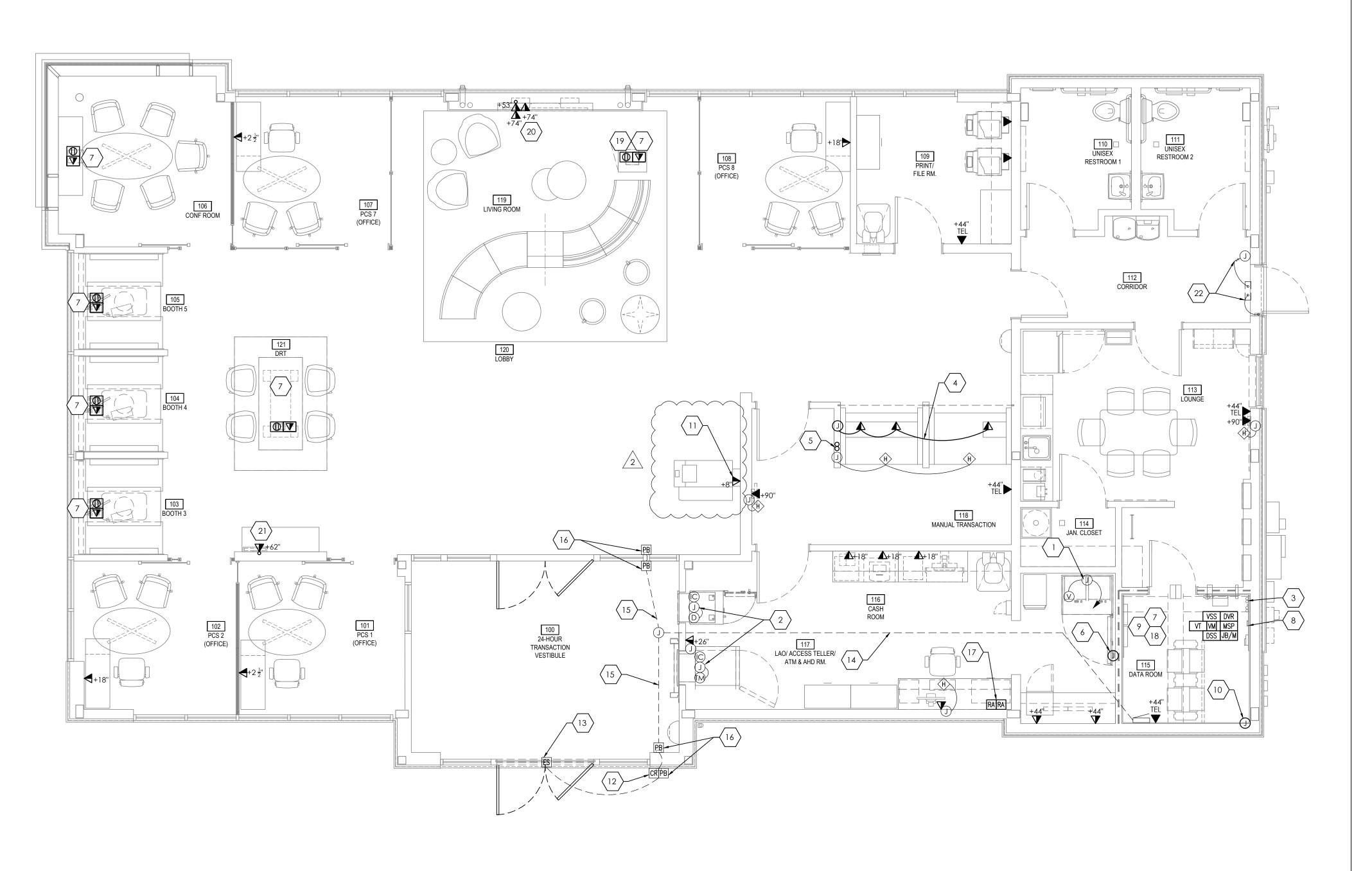
SHEET NUMBER

SHEET TITLE

E3.1







- 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.
- ELECTRCIAL 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:

- 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.
- 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
- 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.
- 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, SE 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
- 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.

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JOHN FERGUSON, P.E.

LICENSE #: 2008014085

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: D. BORELL

CHECKED BY: D. MULVANEY

SYSTEMS PLAN

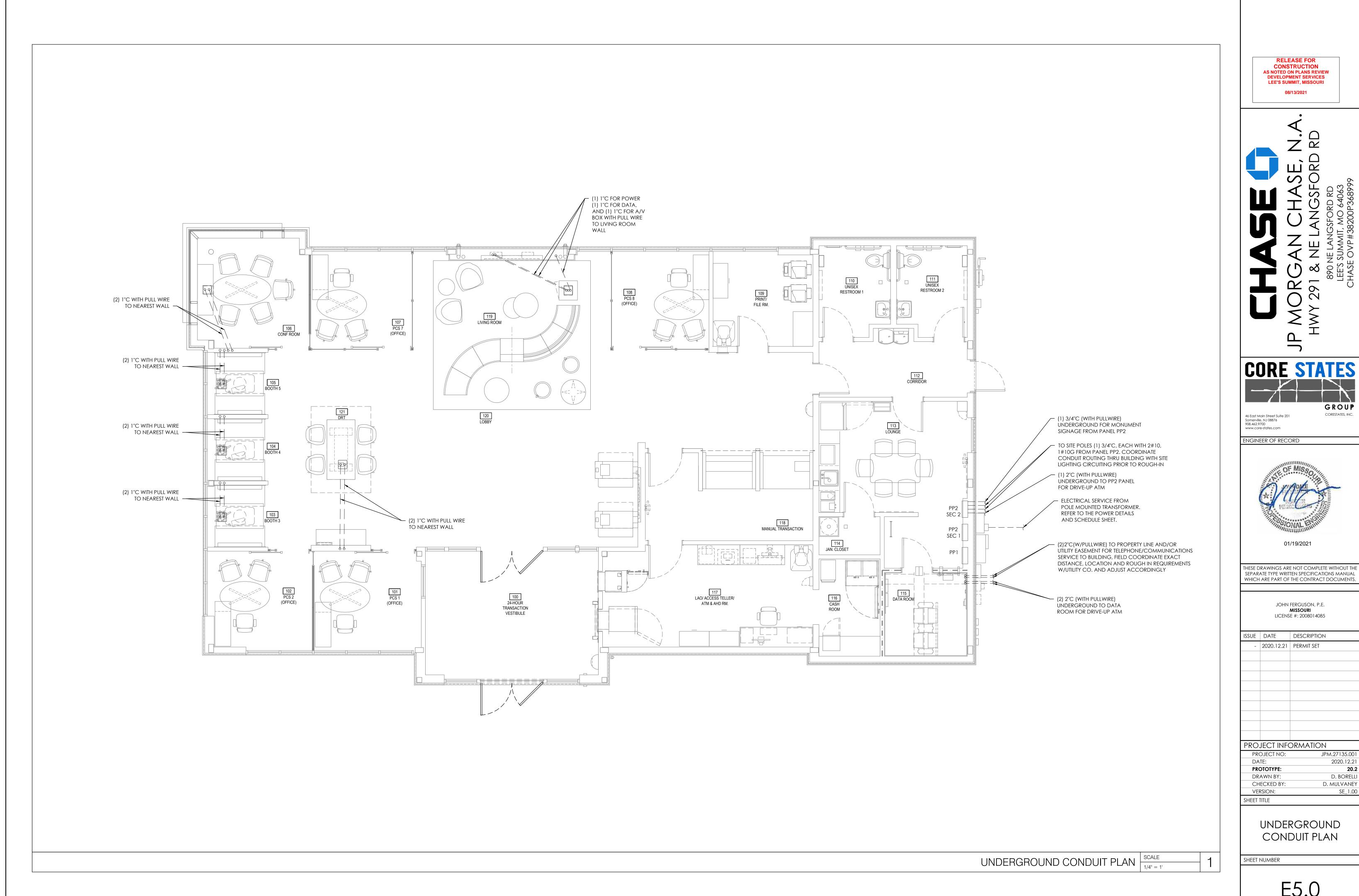
SHEET NUMBER

VERSION:

SHEET TITLE

E4.0

SYSTEMS PLAN SCALE 1/4" = 1'



CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

GROUP

01/19/2021

JOHN FERGUSON, P.E. MISSOURI LICENSE #: 2008014085

> JPM.27135.001 2020.12.21

> > D. BORELL

D. MULVANEY

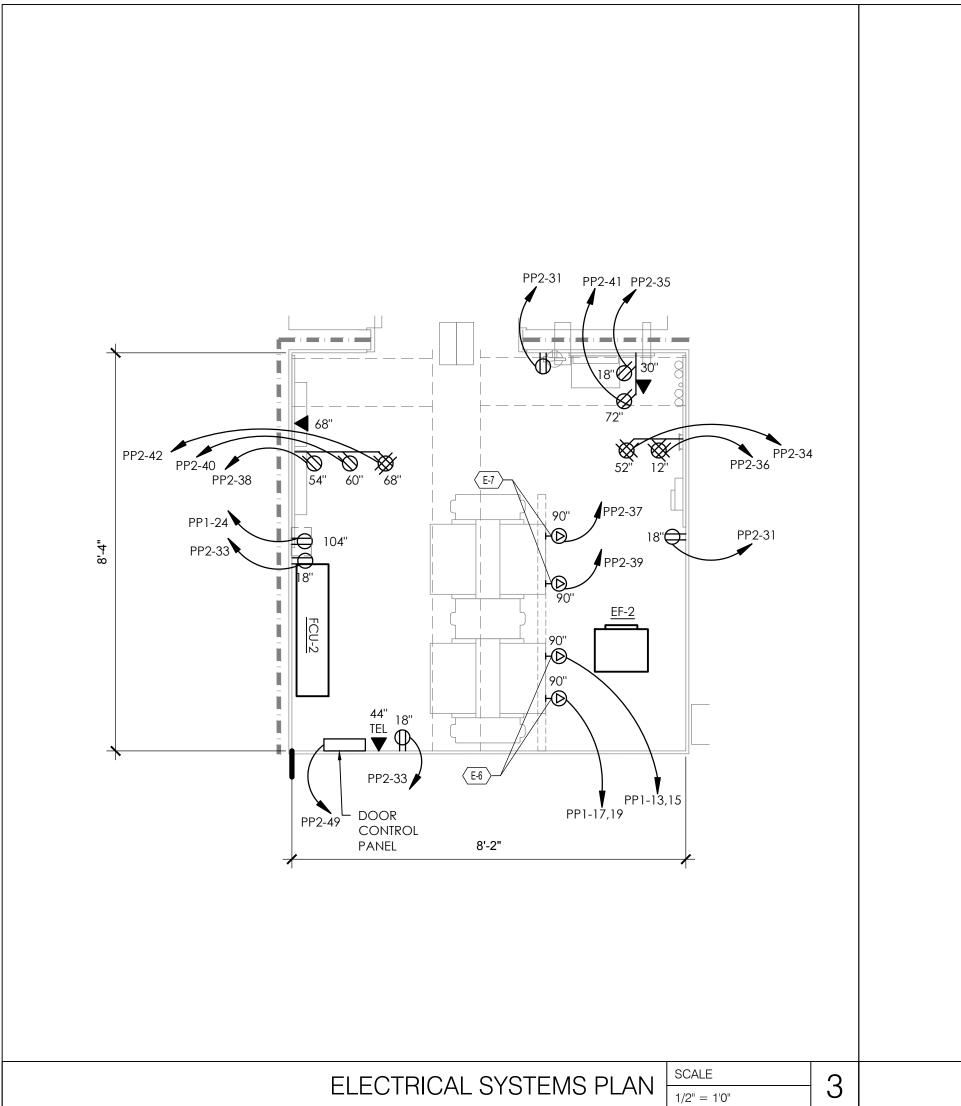
E5.0

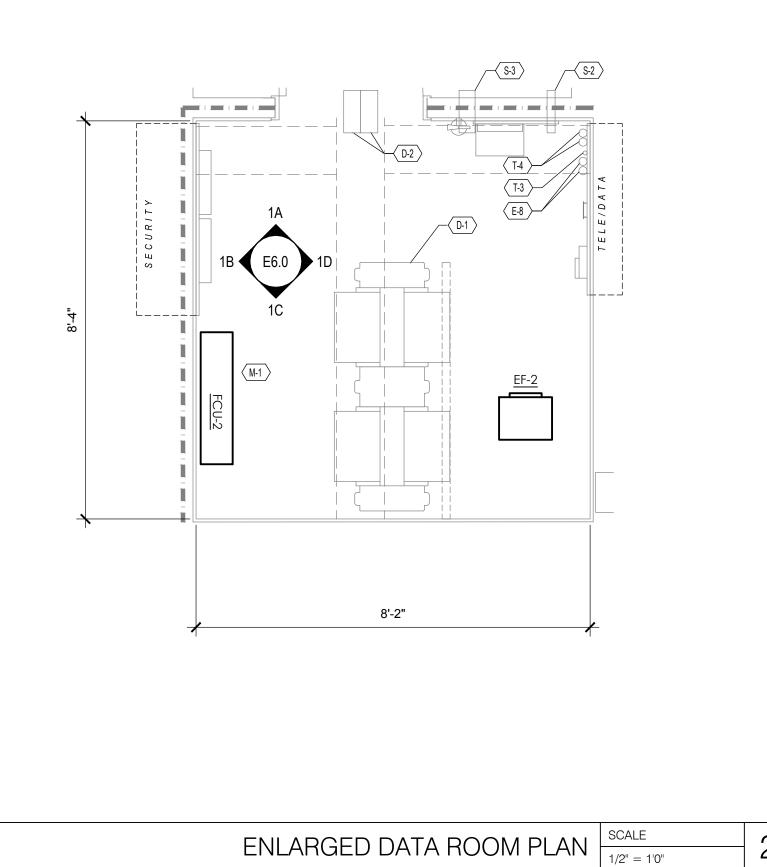
	DATA ROOM D	DIAGRA	M KEY
E-1	ELEC PANEL: MAIN (NOT IN DATA ROOM)	D-1	DATA RACK / CABLE TRAY COMPONENTS
E-2	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)	D-2	(2) 4" DATA CABLE FIRE RATED SLEEVES PROVIDED B' OWNER AND INSTALLED BY G.C. (2 LOCATIONS)
E-3	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)		OWNER AND INSTALLED BY G.C. (2 LOCATIONS)
E-4	TELECOMM GROUND BUSBAR. MOUNT 6" BELOW BOTTOM OF LADDER RACK	TV-1	CATV EQUIPMENT: 24"W x 12"H
E-5	120V/20A ELEC. OUTLET- DUPLEX OR QUADRUPLEX AS SHOWN- RECESSED OR SURF. MTD.	1 V-1	CATV EQUIPMENT. 24 W X 12 H
E-6	(2) DEDICATED 208V/30A ELEC OUTLETS - TWIST-LOCK, NEMA L14-30	S-1	SECURITY EQUIPMENT: 48"W x 66"H
E-7	(2) DEDICATED 120V/20A ELEC OUTLETS - TWIST-LOCK, NEMA L5-20R	S-2	2" MUSIC SYSTEM AND BMS CABLING FIRE RATED SLEEVE PROVIDED BY OWNER AND INSTALLED BY G.O.
E-8	2" CONDUITS FOR EXTERIOR ATM LOCATION W/ 2" 3-CELL MAXCELL INNERDUCT AND SWEEPING 90-DEGREE BENDS	S-3	4" SECURITY CABLE FIRE RATED SLEEVE PROVIDED B OWNER AND INSTALLED BY G.C.
E-9	MANUAL TOGGLE LIGHT SWITCH		
E-10	DOOR CONTROL PANEL	M-1	FAN COIL UNIT AND CONDENSATE PUMP - PROVIDE DEDICATED SYSTEM THAT MEETS ROOM TEMPERATU AND HUMIDITY REQUIREMENTS IN JPMC RETAIL STRUCTURED AND CABLING STANDARDS, APPENDIX E
T-1	TELECOM CARRIER #1: 36"W X 36"H	M-2	SECURITY MOTION SENSOR
T 0	12-PORT FIBER ENCLOSURE FOR EXTENSION OF	M-3	MOOD MUSIC EQUIPMENT: 15"W X 24"H
T-2	CARRIER CONNECTIONS TO RACK. LABEL PORTS TO MATCH RACK MOUNTED FIBER PANEL.	M-4	SURFACE-MOUNT DATA NETWORK JACK
T-3	1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA	M-5	WALL BRACKET FOR REMOTE THERMOSTAT
	CABLING.	M-6	DRAWING STORAGE TUBE
T-4	(2) 2" CONDUITS FOR TELECOM SERVICE W/ 2" 3-CELL MAXCELL INNERDUCT - COORD. LOCN. W/ UTILITY	M-7	STRUCTURED CABLING FLOOR PLAN: 48"W X 36"H
		M-8	TELEPHONE
T-5	12-PORT OUTPUT FOR COPPER EXTENSION OF CARRIER CONNECTIONS TO RACK.	M-9	FIRE EXTINGUISHER
	PROTECTIVE SURGE PROTECTION FOR EACH CAT6 AND CAT6A CABLES FOR POLE MOUNTED SECURITY CAMERAS AND ATM ISLAND/CANOPY DEVICES. PROVIDE	B-1	BMS EQUIPMENT: 15"W X 54"H

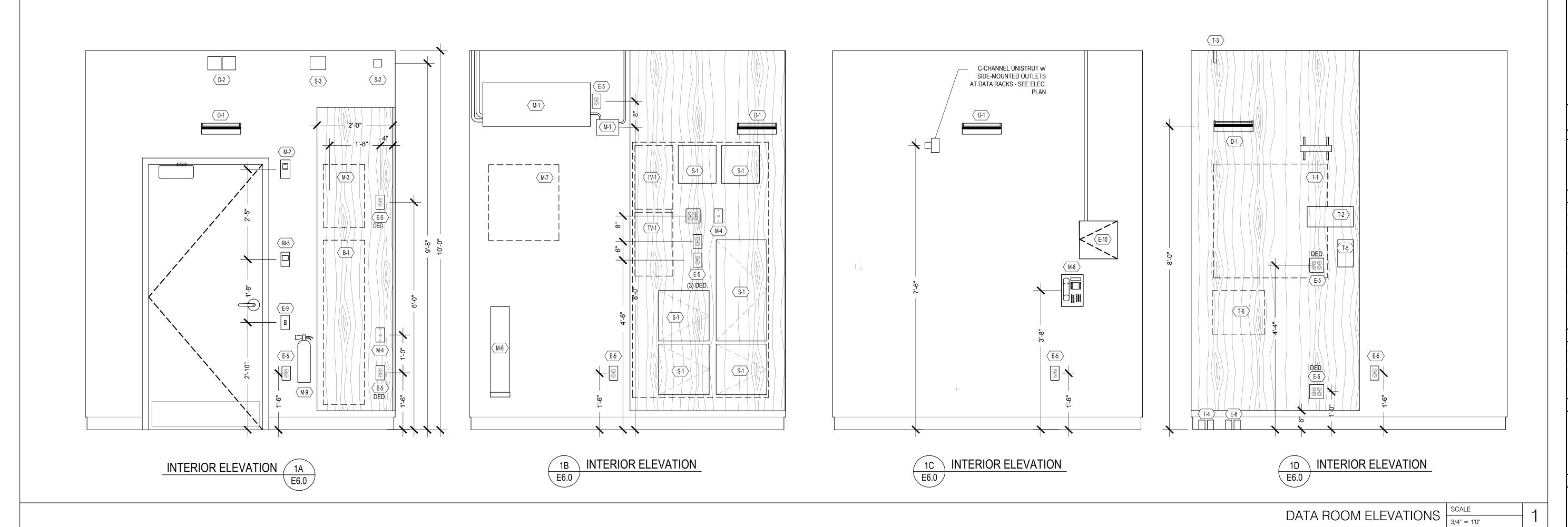
REFER TO CHASE TELECOMM DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE DATA ROOM AND ALL INSTALLATION REQUIREMENTS. REFER TO CHASE TELECOMM ELEVATIONS FOR ALL MOUNTING HEIGHTS AND FINAL LOCATIONS

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

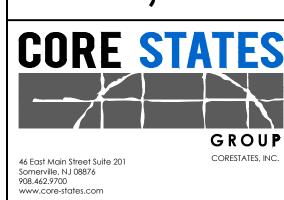
- THE ELECTRICAL/DATA ROOM MUST BE 100% COMPLETE AT A MINIMUM OF 45 DAYS PRIOR TO CONSTRUCTION COMPLETION/TURNOVER DATE.
- ELECTRCIAL CONTRACTOR TO COORDINATE ALL SECURITY EQUIPMENT LOCATIONS WITH SECURITY VENDOR AND CHASE.
- ALL CARRIER AND SECURITY CABLING MUST BE AFFIXED TO WALL AND/OR CONVEYANCE 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.







RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021



ENGINEER OF RECORD



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JOHN FERGUSON, P.E. MISSOURI LICENSE #: 2008014085

DESCRIPTION 2020.12.21 PERMIT SET

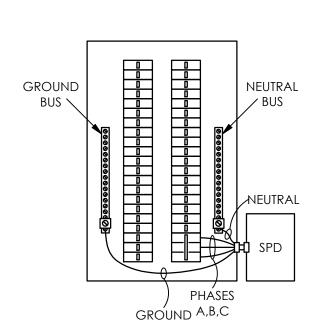
PROJECT INFORMATION PROJECT NO:

JPM.27135.001 2020.12.2 PROTOTYPE: D. BORELLI DRAWN BY: D. MULVANEY CHECKED BY: VERSION: SHEET TITLE

> ENLARGED PLAN AND ELEVATIONS

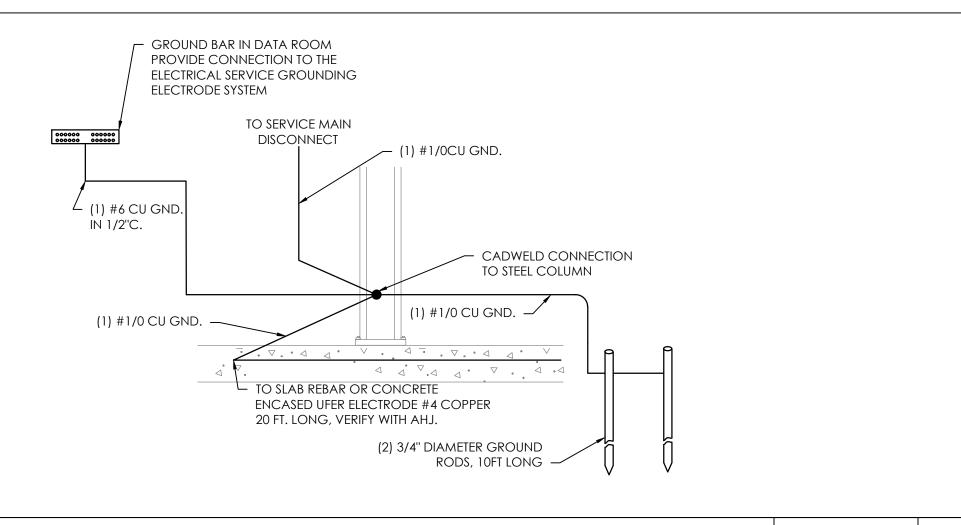
SHEET NUMBER

E6.0



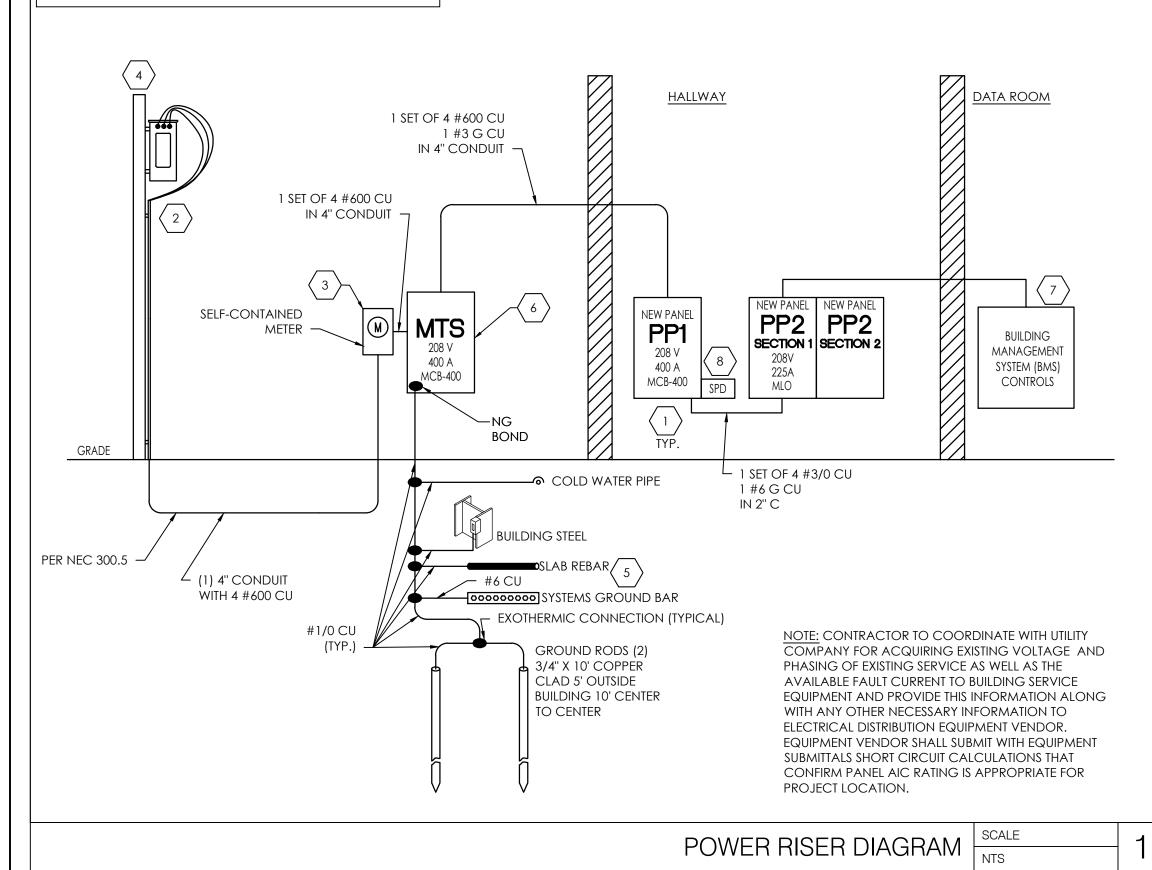
- CONNECT SPD TO BREAKER AS FOLLOWS: 2P30 FOR 1 PHASE
- 3P30 FOR 3 PHASE 2. RELOCATE BREAKER IN PANEL AS NECESSARY TO PROVIDE THE SHORTEST WIRE LENGTH TO SPD.
- 3. DIRECT CONNECTION TO BUS IS NOT PERMITTED.
- 4. USE A CHASE NIPPLE CONNECTION VIA KNOCKOUT.
- 5. USE #10 AWG OR LARGER CONDUCTORS.
- 6. LIMIT 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	9
SPD PAINELDUARD SCHEINIATIC	NTS	S



SERVICE GROUNDING	SCALE
SERVICE GROUNDING	NTS

DEDICATED ELECTRICAL SERVICE HAS NOT BEEN FINALIZED. ALL INFORMATION REGARDING ELECTRICAL SERVICE IS SUBJECT TO CHANGE PENDING COORDINATION WITH UTILITY COMPANY.



				PAN	ELE	3OA	RE	D :	PP1	I (N	IEW)				
MAII	S AMPS: 400A N SIZE/TYPE: 400A MCB TS/PHASE: 208Y/120V, 3PH, 4W		FAL	ULT CUR								RAM		EQUIPMENT GROUND	
	RVES: CHASE BANK CATION: LOUNGE				M	HINTH	NG-	RE	CESS	ED				SUB FEED L	.UGS
CKT		т —	VA/PHASE	_		BKR				WRE		VA/PHASE		DESCRIPTION	CK
NO.	DESCRIPTION	A	B	С		AMP		-	AMP	NO.	A	B	С	DESCRIPTION	NO
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3	RTU-1	3,704	5,764	33333X3333	6	60	3	3	40	8	3,003	3,603	10000	RTU-2	4
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7		1,441		0,704			Н	2	30	10	2,496	10000	3,003	FCU-1	8
9	DAINTREE POWERSCOUT METER	100000000000000000000000000000000000000	1,441		12	15	3	-	"		2,400	2,496		700-1	10
11		000000	22222222222	1,441	1"			2	30	10	00000	2,400	1,768	CU-1	_
13	DATA RACK#1 TWISTLOCK	360			10	30	2	-	"		1,768		1,100	00-1	1
15		1000005000000	360		1		-	2	20	12	(0.000000000000000000000000000000000000	1,560		CU-2 & FCU-2	_
17	DATA RACK#1 TWISTLOCK	100000000000000000000000000000000000000		360	10	30	2	_				111111111111111111111111111111111111111	1,560	-	1
19		360		13313X1313				1	20	12	100			EF-1	2
21	EWH		1,500		12	20	2	1	20	12		200		DUCT SMOKE DETECTORS	
23		100000000000000000000000000000000000000		1,500				1	20	12			400	CONDENSATE PUMPS	_
25	ROOFTOP RECEPS	360			12	20	1	1	20	12	200			EF-2	-
27	SPARE					20	1	1	20	12		180		EWH RECIRCULATION PUMP	2
29	SPARE					20	1	1	20					SPARE	3
31	SPACE						1	1					1	SPACE	3
33	SPACE						1	1						SPACE	3
35	SPACE						1	1						SPACE	3
37	SPACE						1								3
39	SPACE						1	3	30	10				SPD	4
41	SPACE						1								4
		12,410													
	PANEL PP2		14,172	40.000	3/0	200	3								
				12,220	-		Ш			_					
	SUBTOTAL	20,695	23,237	21,285	<u></u>						8,167	8,039	7,331	SUBTOTAL	
	TOTAL PHASE A - VA 28,862	LOAD		CONN. \		DF		LO				CONN. VA			
	AMPS 241	COOLIN		39,749		1.00	- 1	_		RATIO			1.00		
	TOTAL PHASE B - VA 31,276	HEATING		4,992		0				PLAY		8,400	1.25		
_	AMPS 261	LIGHTIN		3,922		1.25		_	CHE				1.00		
_	TOTAL PHASE C - VA 28,616	RECEPT		24,560		1.0/.5		_	ISTING				1.00	TOTAL DEMAND	,
	AMPS 238	MOTORS		2,500		1.00		_		MOTOF			1.25	TOTAL DEMAND	1
_	TOTAL PNLBD - VA 88,754	SUPP H		0.000		1.00		_		MNDO	W		1.25	84,555 VA	ľ
	AMPS 246	MISC EC	MIDIP	9,623		1.00		LIC	G TRA	UK			1.00	235 A	Y

"S" - INDICATES SUB-FEED CIRCUIT BREAKER

"GFCI" - PROVIDE A GFCI CIRCUIT BREAKER

					PAN	ELE	BOA	RD	: PP	2 (1	NEW)				
RUS	AMPS: 225A			FAL							ER DIAGE	RAM		EQUIPMENT GROUND) B
	SIZE/TYPE: MLO			1.7%	JE1 0011				010112		LICONO			Eddi MENT ONOUND	,
	TS/PHASE: 208Y/120V, 3PH, 4W													FEED THRU L	LU
	VES: CHASE BANK													7 220 77770	
OC.	ATION: LOUNGE					MC	UNTIN	NG: F	RECESS	ED					
CKT	DESCRIPTION	$\overline{}$	١	/A/PHASE					P BKR			VA/PHASE	. 1	DESCRIPTION	T
NO.	DECOMM HON	A	_	В	С	4	AMP		50.00	NO.	Α	В	С	DESCRIPTION	I
_	MOTORIZED SHADES	1,00			HILLIAN SHILLIAN	_	=	4		_				BOOTH RECEPS	=
1	JAN CLOSET RECEPS	1,00	00	360		12	20	1	1 20	12	540	540	******	PCS 101 RECEPS	_
5	WATER COOLER/DRINKING FOUNTAIN	1000000		300	720	12	20	1	1 20	12		540	540	PCS 101 RECEPS	_
7	RESTROOMRECEPS	72	555555		720	12	20	1	1 20	12	720		340	CONF 106 RECEPS	_
9	PRINT/FILE RM RECEPS	10000000	_	540	00000X0000	12	20	1	1 20	12	720	540		PCS 107 RECEPS	_
11	LAO/ATM RM RECEPS	1000		040	540	12	20	1	1 20	12		340	540	PCS 107 RECEPS	_
13	LOUNGE CONVENIENCE RECEPS	72	0		ULUL NULL	12	20	1	1 20	12	720			TELLER LINE RECEPS	_
15	MICROWAVE	100000	100000	1,000	181182-1811	12	20	1	1 20	12	720	720		TELLER LINE RECEPS	_
17	WTR MACH, & COFFEE MAKER	1000			1,440	12	20	1	1 20	12			720	ACCESS TELLER	_
19	REFRIGERATOR	70	0			12	20	1	1 20	12	180			CASH RECYCLER	_
21	TELEPRESENCE EQUIPMENT	100000	111111	540		12	20	1	1 20	12		1,200		MOTORIZED SCRIM	_
23	LIMNG ROOM MONITOR				540	12	20	1	1 20	12			600	LOBBY ATM#1	_
25	SPARE		\bigcap	\sim	\sim		20	1	1 20			\sim	\sim	SPARE	_
27	COMMUNITY WALL MONITOR	\sim	\	360	\sim	12	20	1	1 20	12	\sim	600		24-HOUR ATM	
29	CONVENIENCE RECEPS				900	12	20	1	1 20	12			600	24-HOUR AHD	_
31	DATAROOMRECEP	36	0		111111111111111111111111111111111111111	12	20	1	1 20	12	360			DRT FLOOR BOX	_
33	DATAROOMRECEP		10000	360	110107111111	12	20	1	1 20	12		360		DATA RM. TELEPHONE RECEP	P
35	DATA RM. BMS RECEP	10005			360	12	20	1	1 20	12			360	DATA RM. TELEPHONE RECEP	ρİ
37	DATA RACK #2 TWISTLOCK	72	0			12	20	1	1 20	12	360			DATA RM. SECURITY RECEP	P
39	DATA RACK #2 TWISTLOCK			720		12	20	1	1 20	12		360		DATA RM. SECURITY RECEP	P
41	MOOD MUSIC PLAYER				360	12	20	1	1 20	12			360	DATA RM. SECURITY RECEP	P
SEC	TION: 2														
	LOBBY/VESTIBULE LTG	1.5	28	\sim		12	20	1	1 20	12	1,200			BUILDING SIGNAGE	Ε
	EMPLOYEE ONLY LTG			1,533		12	20	1	1 20	12		1,200		BUILDING SIGNAGE	ΕŢ
47	OCTAGON SIGNAGE				1,200	12	20	1	1 20	12			1,200	BUILDING SIGNAGE	_
49	DOOR CONTROL PANEL	20	0			12	20	1	1 20	12	1,200			BUILDING SIGNAGE	_
	DOOR CONTACTORS			200		12	20	_	1 20	10		600		DRIVE-THRU ATM#1	
	CASH RM RECEPS		8888816		540	12	20	1	1 20	10			200	DRIVE-THRU ATM TOPPER #1	_
	SITE, DRIVE-THRU LTG	82	_			10	20	1	1 20					SPARE	_
••	MONUMENT SIGNAGE		999991	1,200		10	20	1	1 20					SPARE	_
	SPARE		1111111				20	1	1 20	12			500	IRRIGATION CONTROLLER	_
61	EXTERIOR RECEPS	36				12	20	1	1 20					SPARE	
63	SPARE	13333333	333335				20	1	1 20	12		1,200)	DRIVE-THRU ATM SIGNAGE	
65	SPARE						20	1	1 20					SPARE	_
67	SPARE	000000				-	20	1	1 20					SPARE	
69	SPARE SPARE						20	1	1 20					SPARE	_
71						-	20	1	1 20	-				SPARE	_
73	SPARE SPARE	III III III II	12222			_	20	1	1 20	-				SPARE	_
	SPARE			000001810000		-	_	1				000000		SPARE	_
77 79	SPARE	000000					20	1	1 20					SPARE SPARE	_
79 81	SPARE	10000081	122221		×	_	20	1	1 20					SPARE	_
	SPARE		(2000)			_	20	1	1 20					SPARE	_
00		2.4	20	0.040	0.000	1	20	-	1 20	_	E 202	7 000	E 000		크
	SUBTOTAL	7,13	_	6,813	6,600	J					5,280	7,320	5,620	SUBTOTAL	_
	TOTAL PHASE A - VA 12,41	_			CONN. \	/A	DF		LOAD			CONN. VA			
	AMPS 103						1.00		REFRIG	-			1.00		
	TOTAL PHASE B - VA 14,13	_					0		SIGN/DI			8,400	1.25		
	AMPS 118	_			3,883		1.25		KITCHE				1.00		
	TOTAL PHASE C - VA 12,22	_		ACLES	22,580		1.0/.5		EXISTIN				1.00	TOTAL DELIVE	_
	AMPS 102 TOTAL PNLBD - VA 38,76	_			2,200		1.00		LARGE I				1.25	TOTAL DEMAND 35,544 VA	إ
	1731 AL DANIE DES VAL 20 78	3 I ISUP	r Ht	-AI			1.00	1.3	SHOWV	MINIO	VV		1.25	35.544 VP	M

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:

- 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.
- 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.
 - 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.
 - 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.
- SEE SERVICE GROUNDING DETAIL ON THIS SHEET.
- PROVIDE NEMA 3R, MANUAL TRANSFER SWITCH WITH LOCKING GENERATOR CONNECTION ENCLOSURE, AND INTEGRAL CABLE CAM-LOCK CONNECTION BAY. ELS STORM SWITCH #\$\$D4-400C-400C-208-311-\$-\$-X304089V\$CH. \$WITCH \$HALL 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.
- REFER TO DAINTREE CONTROL RISER DIAGRAM ON BUILDING MANAGEMENT SYSTEM DETAILS FOR ADDITIONAL INFORMATION REGARDING THE DAINTREE WIRELESS CONTROL SYSTEM.
- SEE SPD PANELBOARD SCHEMATIC DETAIL ON THIS SHEET.

TENANT OCCUPANCY TYPE	SERVICE DESCRIPTION:					
TENANT SQUARE FOOTAGE	E: 3,320	20	8Y/120V, 3F	Н		
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 EQUIPME	NT	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		

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** LEE'S SUMMIT, MISSOURI

08/13/2021





Somerville, NJ 08876 908.462.9700

NGINEER OF RECORD



THESE DRAWINGS ARE NOT COMPLETE WITHOUT THI 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.27135.00 2020.12.2 PROTOTYPE: DRAWN BY: D. BORELL CHECKED BY: D. MULVANEY VERSION: SHEET TITLE

> POWER DETAILS AND SCHEDULES

SHEET NUMBER

E7.0

SYMBOLS LIST

SYMBOL	DESCRIPTION	BACKBOX REQUIREMENTS (BY EC)	CONDUIT REQUIREMENTS	MOUNTING HEIGHT (UNLESS NOTED
×	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"	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51	(BY EC) MINIMUM OF ONE 1" CONDUIT TO ABOVE THE	OTHERWISE) TYPICAL - 18" AFF, SEE ARCHITECTURAL PLANS
× X	DENOTES NUMBER OF JACKS /CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE. 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.	SERIES REDUCER OR EQUAL. REDUCER TO MATCH DRY WALL THICKNESS. DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX.	ACCESSIBLE CEILING. MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING. REFER TO CABLE FILL CHART.	FOR EXACT HEIGHT
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
₩ ▽	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 CLEARANCE ON ALL SID OF FACEPLATE, SEE ARCHITECTURAL PLAN 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 ANDRAWINGS
ATM V	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 AT COORDINATE WITH ATI 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 F 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 SURROUNDI 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 SURROUNDI 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
<u>ē</u> ē	TELECOMMUNICATIONS GROUNDING BUSBAR.	NOT APPLICABLE	NOT APPLICABLE	6" BELOW LADDER RAC
• •	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	REFERENCE TO ANOTHER DRAWING VIEW. EXAMPLE SHOWN REFERS TO DETAIL 1 ON DRAWING TC-XXX.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

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

N 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**

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 \mid 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

TIA = TELECOMMUNICATIONS INDUSTRY ASSOCIATION UTP = UNSHIELDED TWISTED PAIR

TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING

INDEX OF DRAWINGS: TELECOMMUNICATIONS

IIVL	DEA OF DRAWINGS. TELECOMMONICATIONS
TC-000	TELECOM DRAWING & SYMBOL LIST, NOTES, & SCOPE OF WORK
TC-001	TELECOM BOOK SPECS
TC-002	TELECOM BOOK SPECS
TC-003	TELECOM BOOK SPECS
TC-004	TELECOM BOOK SPECS
TC-005	TELECOM BOOK SPECS
TC-101	TELECOM NEW FLOOR PLAN
TC-102	TELECOM SITE PLAN
TC-201	FIRST FLOOR ENLARGED RMER PLAN AND ELEVATIONS
TC-301	TELECOM SINGLE LINE DIAGRAM
TC-302	TELECOM TERMINATION DETAILS
TC-401	TELECOM INSTALLATION DETAILS
TC-402	TELECOM INSTALLATION DETAILS
TC-403	TELECOM INSTALLATION DETAILS
TC-501	AV SOLUTION #1 55" DISPLAY INSTALLATION DETAILS
TC-502	AV SOLUTION #3 75" DISPLAY INSTALLATION DETAILS
TC-503	AV SOLUTION #7 32" DISPLAY INSTALLATION DETAILS
TC-601	TELECOM MATERIALS AND PATCH PANEL SCHEDULES

CONDUIT REQUIREMENT CABLE FILL FOR UTP CABLE

		(CAT 6 OD = 0.24", 0	CAT 6A OD = 0.285")	
	CONDUIT TRADE SIZE	CONDUIT AREA (SQ IN)	40% FILL # OF <u>CAT 6</u> CABLES	40% FILL # OF <u>CAT 6A</u> 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

	3AL CTOR	CAL	TOR	7 70R	OR	>	
INSTALLATION ITEMS	GENERAL	ELECTRICAL CONTRACTOR	TELECOM	SECURITY CONTRACTOR	AV 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	

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
- 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:

OF THE CONDUIT.

- . 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
- D. CONDUITS SHALL ENTER AND EXIT PULL BOXES IN A CONTINUOUS DIRECTION. PULL BOXES ARE NOT TO BE USED FOR 90
- DEGREE BENDS. ALL 90 DEGREE BENDS SHALL HAVE A SWEEPING BEND WITH A BEND RADII EQUAL TO AT LEAST 10 TIMES THE DIAMETER
- . 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



issue			
no	date	issue	by
А	12.21.2020	ISSUED FOR COORDINATION	КВ
В	01.19.2021	ISSUED FOR CONSTRUCTION	КВ

JP MORGAN CHASE & CO 890 NE LANGSROD RD LEE'S SUMMIT, MO 64063

designed KB 12.21.2020 checked CC scale AS NOTED

> **TELECOM DRAWING** & SYMBOL LIST, NOTES & SCOPE OF WORK

job no.

OVP-38200P368999

sheet

1.1 GENERAL REQUIREMENTS

- A. THIS DOCUMENT IS INTENDED TO PROVIDE THE INFORMATION NECESSARY TO ALLOW THE DESIGN AND CONSTRUCTION TEAMS TO PLAN H. ILEC: INCUMBENT LOCAL EXCHANGE CARRIER 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 I INFRASTRUCTURE REQUIREMENTS FOR RETAIL SPACES.
- 3. IT IS ENVISIONED THAT NOT ALL RETAIL SPACES WILL REQUIRE THE COMPLETE RANGE OF SERVICES AND TELECOMMUNICATIONS K. MANDATORY: EQUIVALENT TERMS INCLUDE MUST, SHALL, WILL, IS REQUIRED, & ARE REQUIRED. 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, UTILIZÉ, AND MANAGE, AND TO STATE THE O. OPTIONAL: EQUIVALENT TERMS INCLUDE CAN, MAY, SHOULD, PREFERABLY, PREFERS, DESIRED, & DESIRABLE. CABLING INFRASTRUCTURE STANDARDS ASSOCIATED WITH THESE SPACES. TO PROMOTE WIDE UNDERSTANDING IT IS BUILT UPON A P. OWNER: JP MORGAN CHASE & COMPANY 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 R. PROVIDE: TO FURNISH AND INSTALL. SHALL BE ISSUED AS PART OF A COMPLETE CONSTRUCTION DRAWING SET WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, S. SPECIFICATIONS: DIVISION 27 SPECIFICATIONS, WHICH OUTLINES GENERAL INSTALLATION REQUIREMENTS.
- C. IF A STANDARD CANNOT BE MET DURING THE PLANNING AND DESIGN PHASES, THE GROUP ACCOUNTABLE TO MEET THE REQUIREMENTS T. TE: TELECOMMUNICATIONS ENCLOSURE 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).
- RETAIL MAIN EQUIPMENT ROOM (RMER): THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION POINT FOR THE D. CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS CHANGE OVER TIME. CURRENT GOVERNING CODES AND 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:
- 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.
- STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES)
- 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.
- DEDICATED COOLING UNIT.
- 10. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
- ACCESS CONTROL SYSTEM PANELS.
- 12. INTRUSION DETECTION SYSTEM PANELS. 13. MOOD MUSIC SYSTEM EQUIPMENT.
- 14. BUILDING MANAGEMENT SYSTEM (BMS) EQUIPMENT.
- . 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).
- 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.
- 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).
- HORIZONTAL CABLING TERMINATIONS.
- 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
- 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).
- HORIZONTAL CABLING TERMINATIONS.
- WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
- AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
- ITEMS NOT WITHIN THE RMER OR RTR INCLUDE:
- ELECTRICAL PANELS. 2. FIRE ALARM PANELS.
- 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:
- DOMESTIC WATER PIPING 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.
- RMER: a. ONE PER FACILITY, CENTRALLY LOCATED AS MUCH AS POSSIBLE, TO SERVE UP TO 10,000 SQUARE FEET OF SPACE ON THE SAME PART 3 - EXECUTION
- FLOOR/LEVEL.
- 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.
- 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

C. CM: CONSTRUCTION MANAGER

- 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.

- D. CONTRACTOR: THE STRUCTURED CABLING INSTALLATION CONTRACTOR
- E. FURNISH: THE CONTRACTOR SHALL SUPPLY
- F. GC: GENERAL CONTRACTOR
- G. HC: HORIZONTAL CROSS-CONNECT

- INSTALL: TO PUT INTO PLACE OR FIX IN POSITION READY FOR USE.
- J. JPMC: JP MORGAN CHASE & COMPANY
- 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

- Q. PROJECT DOCUMENTS: ALL DOCUMENTS THAT PERTAIN TO THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PROJECT DRAWINGS, THIS STANDARD, AND PROJECT SPECIFICATIONS.

- 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
- 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

1.7 REFERENCED JPMC STANDARDS

METHODS MANUAL (TDMM)"

- 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).
- 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
- 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
- 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.

- 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

4. WORKPLACE READY - CONSISTS OF GENERAL, MEP, FURNITURE, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS OUTSIDE

- 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.

END OF SECTION

SECTION 27 00 00 COMMUNICATIONS INTRODUCTORY STANDARD

OF THE RMER/RTR.

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 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
- 1.3 APPROVED CONTRACTORS

A. PREFERRED CABLING CONTRACTOR MASTER LIST

MAY INCLUDE, BUT NOT LIMITED TO, IBEW OR CWA.

- 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.

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.

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

B. CONTRACTOR ADVERTISING

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

LOGO. PHOTOGRAPHS WITHIN JPMC BUILDINGS INCLUDING TECHNOLOGY SPACES ARE STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF

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.

LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.

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
- B. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO SECURE, READ AND UNDERSTAND ALL RELEVANT JPMC STANDARDS, AND EXECUTE INSTALLATIONS IN ACCORDANCE WITH SAID STANDARDS.

1. KEEPING THE RMER OR RTR FREE OF FOOD AND DRINK AT ALL TIMES.

2. LEAVING RMER OR RTR DOORS CLOSED AT ALL TIMES.

A. UPON REQUEST BY JPMC, THE CONTRACTOR SHALL PROVIDE PROOF OF ANY CERTIFICATIONS, TRAINING, OR UNION AFFILIATIONS.

3. EMPLOYING HEPA VACUUM WHENEVER DRILLING, CUTTING, CORING, OR PERFORMING ANY WORK THAT WILL IMPACT AIR QUALITY.

END OF SECTION

3.2 DOCUMENTATION

SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING 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

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/13/2021

seal



issue date ISSUED FOR COORDINATION 12.21.2020 B 01.19.2021 ISSUED FOR CONSTRUCTION

> JP MORGAN CHASE & CO 890 NE LANGSROD RD LEE'S SUMMIT, MO 64063

checked scale AS NOTED

12.21.2020

drawn KB

TELECOM BOOK SPECS

OVP-38200P368999

designed KB

sheet

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
- 3. MATERIAL SAFETY DATA SHEETS MUST BE PROVIDED TO THE OWNER PRIOR TO PERFORMING WORK.
- 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
- 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.
- 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
- 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
- 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

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:
- INFORMATION OUTLET FACEPLATES
- 2. HORIZONTAL CABLING 3. COPPER PATCH PANELS
- 4. BACKBONE CABLING
- 5. FIBER PATCH PANELS
- 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.
- 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
- 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

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

- 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
- WHERE X = RMER OR RTR DESIGNATION. 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. 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 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

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



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site location JP MORGAN CHASE & CO 890 NE LANGSROD RD LEE'S SUMMIT, MO 64063

checked scale AS NOTED

12.21.2020

TELECOM BOOK SPECS

designed KB

OVP-38200P368999

1.1 DESCRIPTION

- A. THIS SECTION SPECIFIES TECHNOLOGY INFRASTRUCTURE EQUIPMENT INCLUDING THE FOLLOWING
- J-HOOKS.
- CONDUITS AND BOXES
- INNERDUCT
- PULL BOXES.
- FIRE-RATED SLEEVES.
- 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 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.

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:

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.
- 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

- 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
- 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.

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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
- 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

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
- 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 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
- 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
- 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 3/4" 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

ALLOWABLE EXCEPTION.

- 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 % 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

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

RACK WHOSE SECTION CONNECTING HARDWARE IS NOT APPROVED AS A MEANS FOR PROVIDING GROUND CONTINUITY.

- 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

SECTION 27 11 00 - EQUIPMENT ROOM

FITTINGS FOR STRUCTURED CABLING

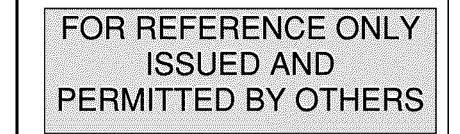
END OF SECTION

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

keyplan





seal



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TELECOM BOOK SPECS

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SECTION 27 05 28 PATHWAYS FOR STRUCTURED CABLING

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

- 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:
- 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:
- OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED)
- 2. 4G LIGHTNING SUPPRESSORS/ARRESTORS FOR OUTDOOR ANTENNA INSTALLS
- CEILING MOUNT BRACKET (JDTECK) FOR INDOOR PANEL ANTENNAL INSTALLS
 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
- 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
- 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)
 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 ARRESTORf. 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
- 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

AND CONNECTIVITY TO THE ROUTER.

- 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
- COMPARE SIGNAL LEVELS AT ROUTER TO DESIGN VALUES
 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)

SECTION 27 53 19

CELLULAR ANTENNA

END OF SECTION

JPMORGAN CHASE & CO.

GLOBAL TECHNOLOGY INFRASTRUCTURE
END USER SERVICES
WORKPLACE TECHNOLOGY SERVICES
STRUCTURED CABLING ENGINEERING
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

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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
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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TC-004

SECTION 27 13 00 STRUCTURED CABLING - BACKBONE CABLING

9

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:

 - CATEGORY 6: GRAY CATEGORY 6A: WHITE
 - 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
- **CATEGORY 6 UTP MATERIALS**
- CATEGORY 6A UTP MATERIALS CATEGORY 6A F/UTP MATERIALS
- CATEGORY 6 OSP UTP MATERIALS
- **CATEGORY 6A OSP UTP MATERIALS**
- **FACEPLATES**
- 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:
 - TEST EQUIPMENT WHICH IS CAPABLE OF ELECTRONICALLY STORING TEST RESULT DATA. THE TESTER SHALL EXCEED
 - ANSI/TIA-1152 LEVEL 2G CATEGORY 6 AND CATEGORY 6A PERMANENT AND CHANNEL ADAPTERS
 - SINGLE-MODE AND MULTI-MODE FIBER ADAPTERS
 - ENCIRCLED FLUX REFERENCE CORDS
 - FIBER INSPECTION PROBE/ MICROSCOPE
 - APPROPRIATE CONNECTOR CLEANING TOOLS/ TAPES 2M CATEGORY 6 PATCH LEADS IF CHANNEL TESTING CATEGORY 6 CABLING
 - 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.
- 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.
- . 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
- 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

- 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:
- BRIEF OVERVIEW OF THE PROJECT (LOCATION, SCOPE ETC.)
- OVERVIEW OF THE TESTING PROCEDURE INCLUDING SUPPORTING DOCUMENTATION, ONSITE EQUIPMENT CALIBRATION/
- REFERENCING AND CLEANING PROCEDURE. DETAILS OF THE EQUIPMENT TO BE USED.
- CALIBRATION REQUIREMENTS AND CERTIFICATION FOR THE EQUIPMENT TO BE USED
- TEST RESULT BACKUP PROCEDURE
- DETAILS OF PROCEDURE FOR REMEDIATING ANY TEST RESULTS WHICH DO NOT PASS THE REQUIRED TESTS A PROGRAM OF WORKS FOR THE TESTING, SHOULD THIS NOT BE CLEAR IN THE OVERALL INSTALLATION PROGRAM
- 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 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:
 - ISO/IEC 11801
 - 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 WIRE MAP

- LENGTH
- PROPAGATION DELAY
- DELAY SKEW
- DC LOOP RESISTANCE RECORDED FOR INFORMATION ONLY
- DC RESISTANCE UNBALANCE RECORDED FOR INFORMATION ONLY
- INSERTION LOSS
- NEXT (NEAR-END CROSSTALK)
- PS NEXT (POWER SUM NEAR-END CROSSTALK)
- ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END) RECORDED FOR INFORMATION ONLY
- PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END) RECORDED FOR INFORMATION ONLY

ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS) - RECORDED FOR INFORMATION ONLY

- ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END)
- PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
- RETURN LOSS
 - TCL (TRANSVERSE CONVERSION LOSS) RECORDED FOR INFORMATION ONLY

CATEGORY 6A & CATEGORY 6A (CATAGORY6A SHIELDED/FOILED CABLES FOR AUDIO-VIDEO CABLES ONLY WIRE MAP

- LENGTH
- PROPAGATION DELAY
- DELAY SKEW
- DC LOOP RESISTANCE
- DC RESISTANCE UNBALANCE WITHIN A PAIR
- DC RESISTANCE UNBALANCE BETWEEN PAIRS **INSERTION LOSS**
- NEXT (NEAR-END CROSSTALK)
- PS NEXT (POWER SUM NEAR-END CROSSTALK)
- ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END)
- PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END)
- ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END) PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
- RETURN LOSS
- TCL (TRANSVERSE CONVERSION LOSS)
- ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS) PS ANEXT (POWER SUM ALIEN NEAR-END CROSSTALK)
- AVERAGE PS ANEXT (AVERAGE POWER SUM ALIEN NEAR-END CROSSTALK)
- PS AACR-F (POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
- AVERAGE PS AACR-F (AVERAGE POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END) 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
- 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.

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

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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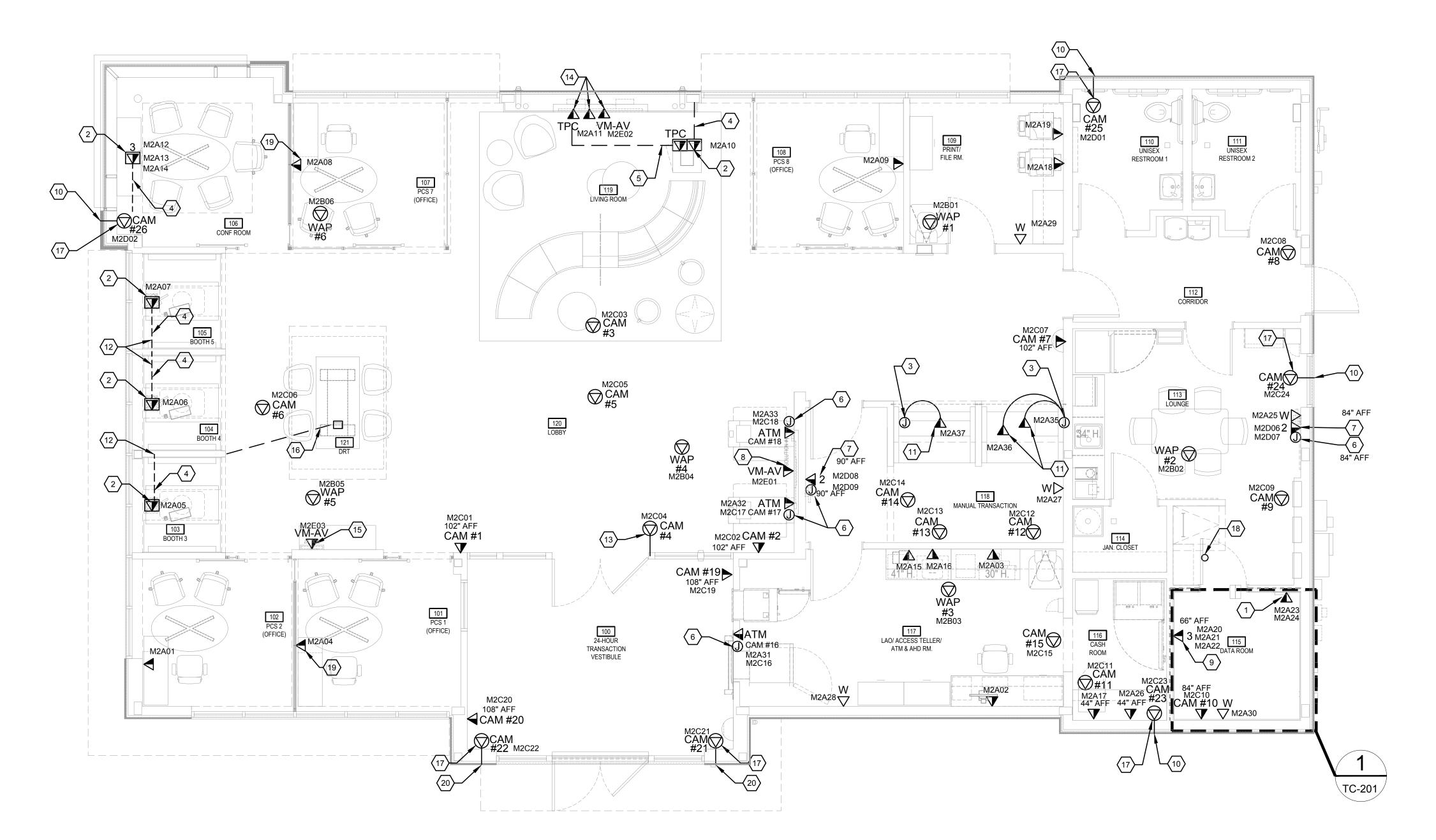
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TELECOM BOOK SPECS

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STRUCTURED CABLING - HORIZONTAL CABLING



1 TELECOM FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

TELECOM CEILING PLAN GENERAL NOTES

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

OUTLET FOR BUILDING AUTOMATION SYSTEM EQUIPMENT. COORDINATE THE EXACT LOCATION WITH THE BAS EQUIPMENT PRIOR TO ROUGH-IN.

- 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.
- PROVIDE CAT6A CABLING.

7. OUTLET FOR SECURITY CAMERA MONITOR.

- 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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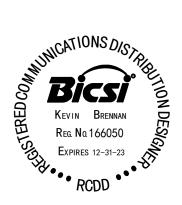
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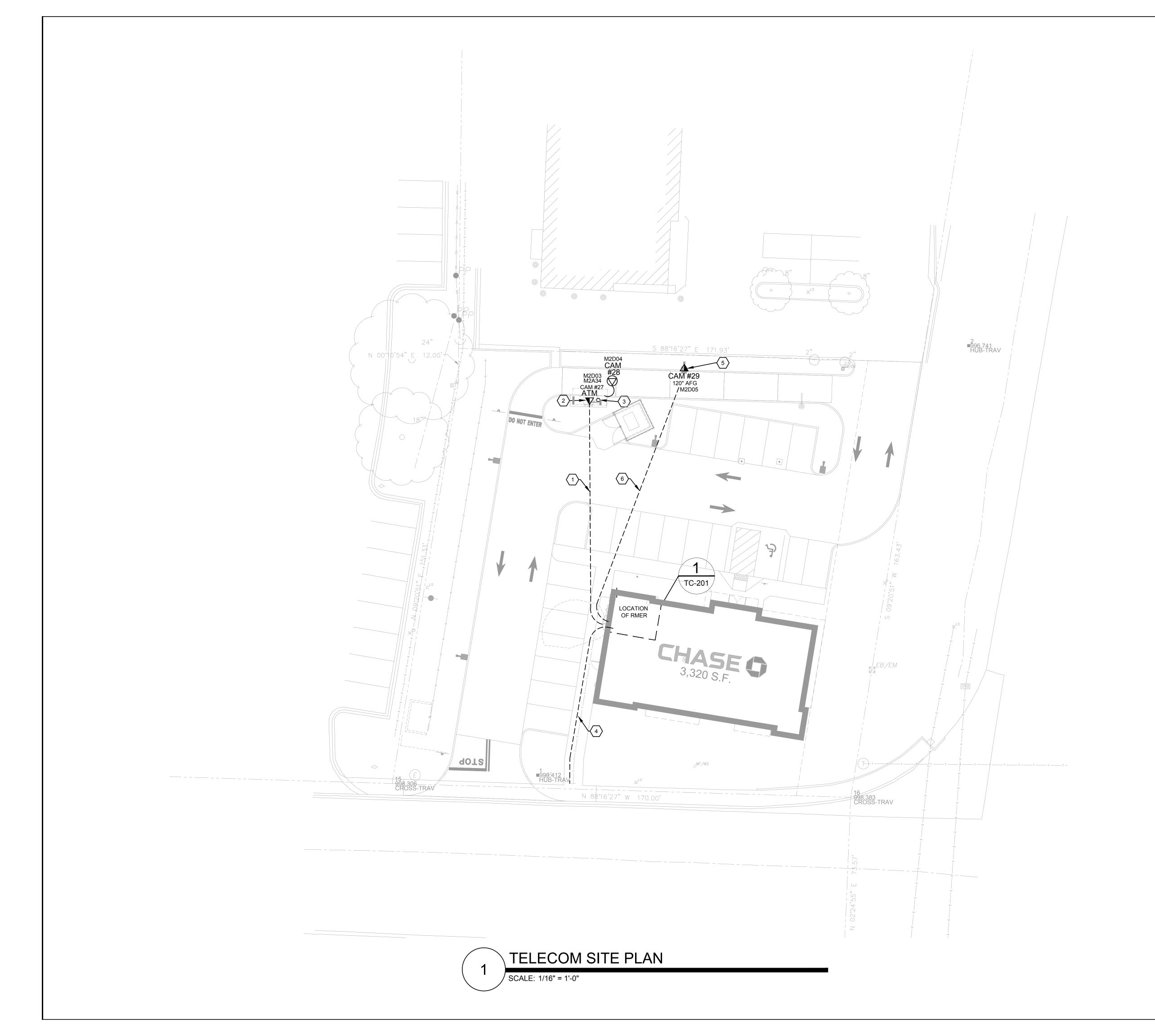
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TELECOM FIRST FLOOR PLAN

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TELECOMMUNICATIONS PLAN NOTES $\langle \# angle$

- 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.
- 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.
- 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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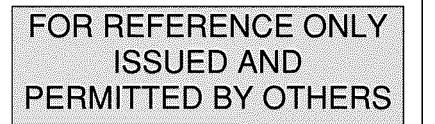
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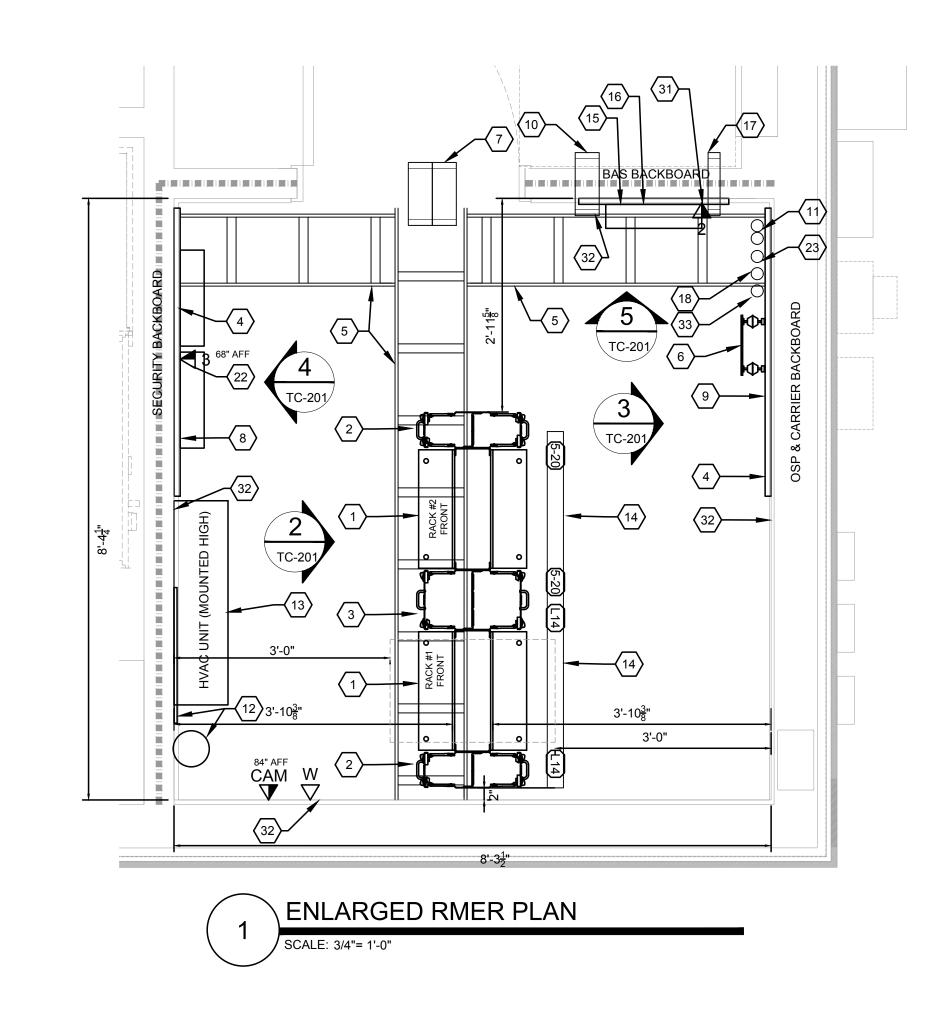
TELECOM SITE PLAN

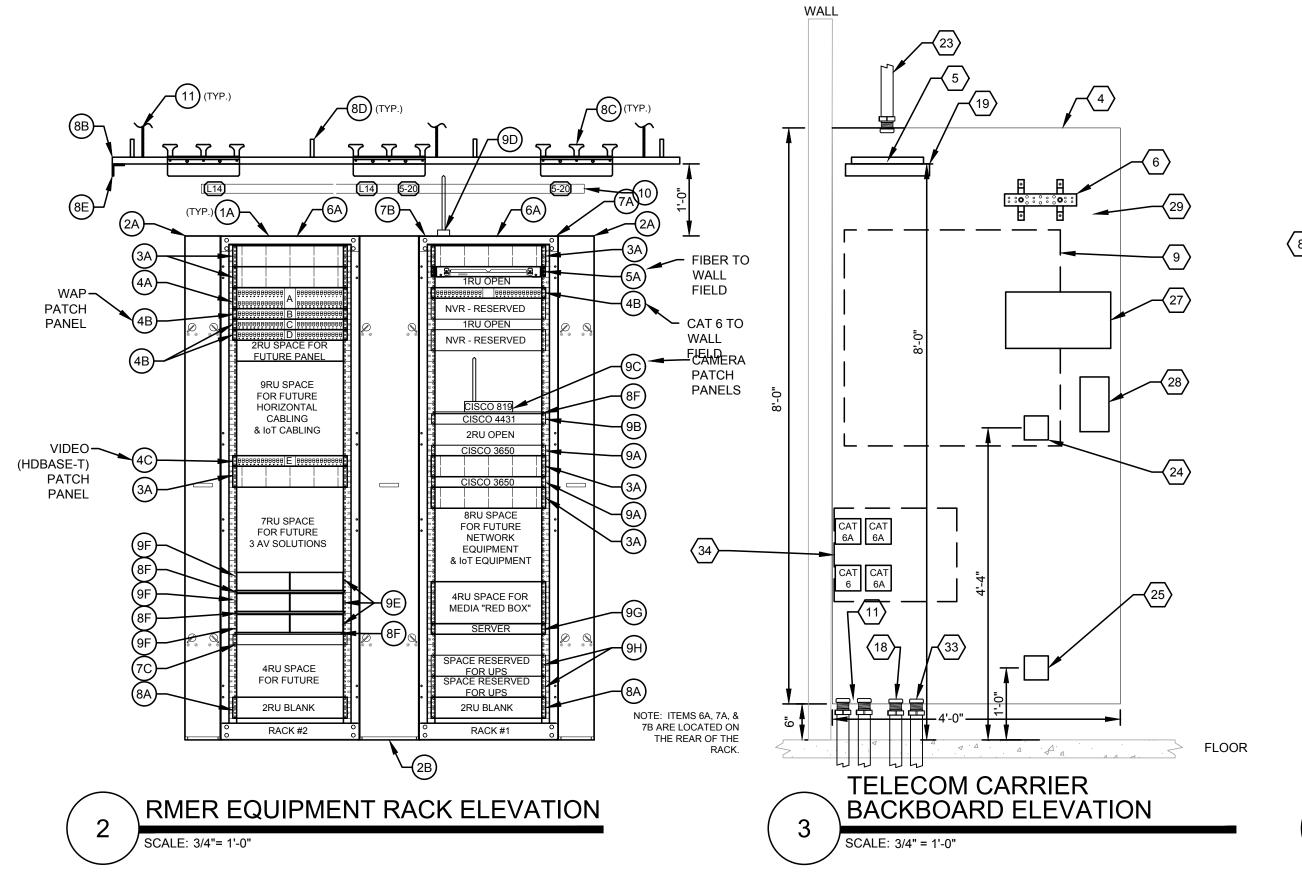
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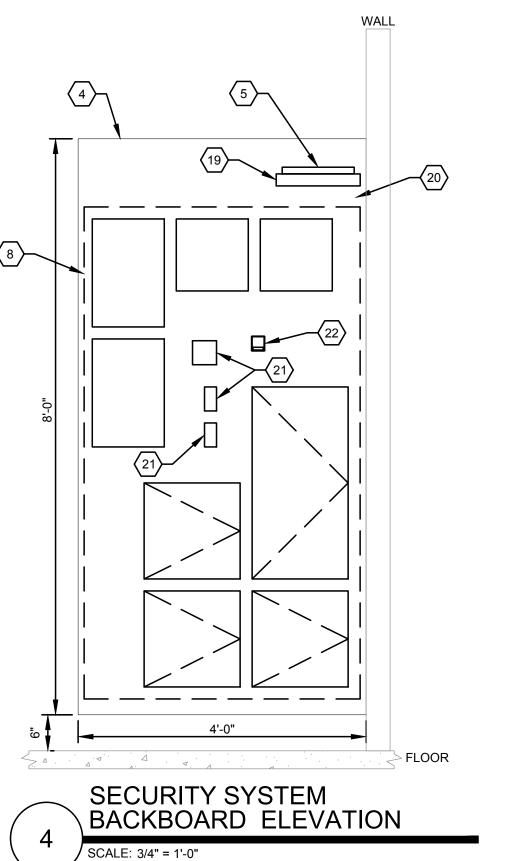
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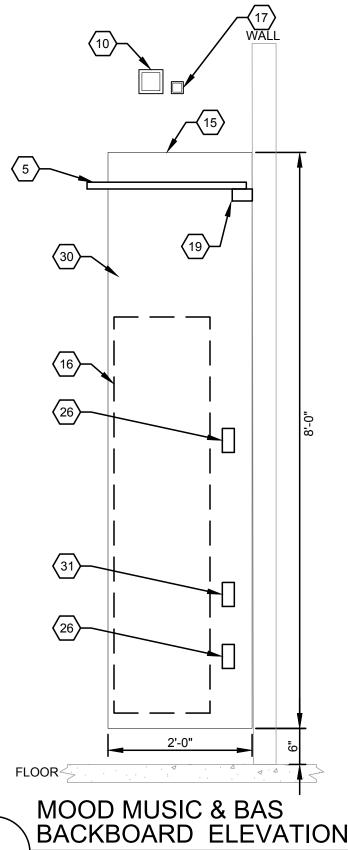
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		-	RACK EQUIPME	NT SCH	HEDULE		
ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER	ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER
(1A)	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	8B	12" WIDE LADDER RACK - BLACK FINISH	СРІ	10250-712
2A)	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	80	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	СРІ	12101-701
2B	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	8D	LADDER RACK CABLE RETAINING POSTS	СРІ	10596-706
ЗА	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	8E)	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712
ЗВ	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	90	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	96	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 SE C-CHANNEL (UNISTRUT) BELOW THE LA & ABOVE THE RACKS.		PROVIDED BY EC
				11	ALL-THREAD TO STRUCTUR	E	PROVIDED BY TC









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.
- NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 4' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
- 6. LOCATION OF THE TELECOMMUNICATIONS GROUND BUSBAR. MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK.
- #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. USE
- SECURITY EQUIPMENT.
- 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.
- 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.
- WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE 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.
- 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.
- FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND
- CABLING. REFER TO SHEET TC-402 FOR ADDITIONAL INFORMATION.
- HOMERUN FOR FUTURE EQUIPMENT.
- BUILDING AUTOMATION SYSTEM (BAS)EQUIPMENT.
- CONNECTIONS TO RACK. LABEL PORTS TO MATCH RACK MOUNTED FIBER PANEL. CORNING PART # PWH-02P.
- 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.
- 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

- 3. NEW 10" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH
- FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH
- 5. NEW 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
- PROVIDE TWO 4" PRE-MANUFACTURED FIRE-RATED SLEEVES (STI EZ-PATH PART # EZD44S2) WITH WATERFALL ADAPTER (STI PART MUTLI-GANG PLATE (STI PART #EZP544W).
- 8. 4' WIDE BY 7'-0" TALL WALL FIELD AREA RESERVED FOR
- 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.

- 14. EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30
- 15. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 2' FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH
- 17. PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI
- 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
- FACEPLATE. 23. PROVIDE 1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA
- 24. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR CARRIER EQUIPMENT.
- 25. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT
- 26. DEDICATED DUPLEX OUTLET FOR SOUND SYSTEM AND/OR
- 27. 12-PORT FIBER ENCLOSURE FOR EXTENSION OF CARRIER
- 28. 12-PORT OUTLET FOR COPPER EXTENSION OF CARRIER
- 32. LOCATION FOR CONVENIENCE ELECTRICAL RECEPTACLE (BY DIV
- 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 GROUNDING BAR PER MANUFACTURER REQUIREMENTS.

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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> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021

seal



issue			
no	date	issue	by
А	12.21.2020	ISSUED FOR COORDINATION	KB
В	01.19.2021	ISSUED FOR CONSTRUCTION	KB

site location JP MORGAN CHASE & CO **890 NE LANGSROD RD** LEE'S SUMMIT, MO

designed KB 01.19.2021 scale AS NOTED checked

> **FIRST FLOOR ENLARGED RMER PLAN AND ELEVATIONS**

job no.

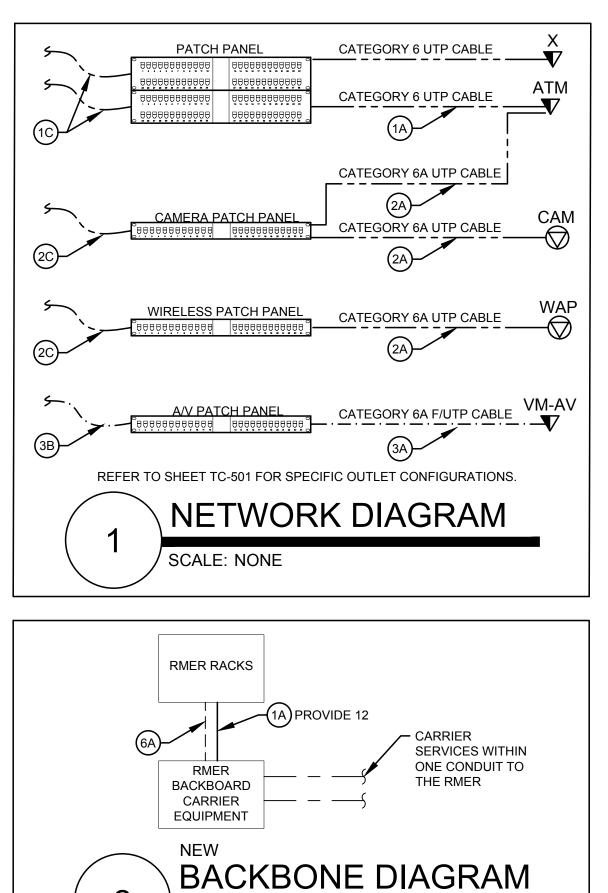
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sheet

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 CAT 6A		7 FOOT	1		
RMER / R	RTR END PATCH CO	RD 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.



SCALE: NONE

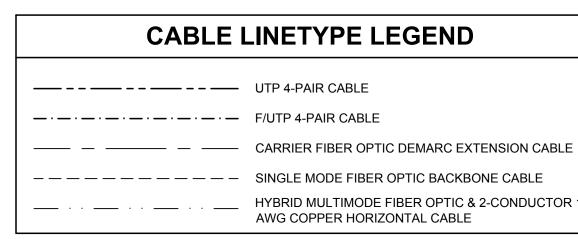
		CABLE SCHEDU	JLE				
TYPE	NUMBER	DESCRIPTION	MANUFACTURER	MODEL NUMBER			
R S UTP	(1A)	CATEGORY 6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700210198 (REEL) 700214372 (BOX)			
INTERIOR CATEGORY 6 UTP	(1B)	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700211923 (REEL) 700211931 (BOX)			
CATE	1C)	CATEGORY 6 PATCH CORD	COMMSCOPE/ SYSTIMAX	CPC3312-03F0##, WHERE ## = LENGTH			
7 6A	(2A)	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105940 (REEL) 760107268 (BOX)			
INTERIOR CATEGORY 6A UTP	2B)	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105817			
CAI	2C)	CATEGORY 6A, PATCH CORD	COMMSCOPE/ SYSTIMAX	CPCSSX2-08F0##, WHERE ## = LENGTH			
7, 6A	ЗА	CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE	BERK-TEK	10143424			
INTERIOR CATEGORY 6A F/UTP	ЗВ	CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-##L, WHERE ## = LENGTH			
CAT	3C)	CATEGORY 6A, F/UTP, BLUE PATCH CORD	LEVITON	6AS10-03L			
RIOR SORY TP	(4A)	CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/ SYSTIMAX	760008888			
EXTERIOR CATEGORY 6 UTP	4 B	CATEGORY 6, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15542-01F0##, WHERE ## = LENGTH			
RIOR CORY TP	_ + _ +		COMMSCOPE/ SYSTIMAX	760178129			
EXTERIOR CATEGORY 6A UTP	(5B)	CATEGORY 6A, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15582-01F0##, WHERE ## = LENGTH			
	(6A)	12-STRAND SINGLE MODE, INDOOR, PLENUM RATED FIBER BACKBONE	CORNING	012E88-33131-29			
FIBER	(6B)	HYBRID FIBER (2-STRAND SINGLE MODE) WITH COPPER (TWO 12AWG), OUTDOOR RATED HORIZONTAL CABLE	BERK-TEK	ONE-REACH SERIES			
Ë	(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						

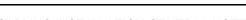
CONDUIT OR THE HVAC SYSTEM HAS A DUCTED AIR RETURN.

CABLING INSTALLATION GENERAL NOTES:

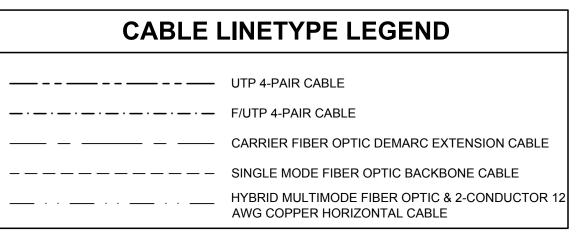
B. CABLE PATHWAYS ARE SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY. ACTUAL TERMINATION LOCATION OF THE CABLES IN THE FIELD PRIOR TO PULLING ANY

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.





- 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).
- PATHWAYS MAY BE DIFFERENT. TC SHALL VERIFY CABLE PATHWAYS AND RACK
- 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.
- FOR EACH CAT 6 AND CAT 6A CABLING LEAVING THE BUILDING TO SERVE EXTERIOR



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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> CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/13/2021

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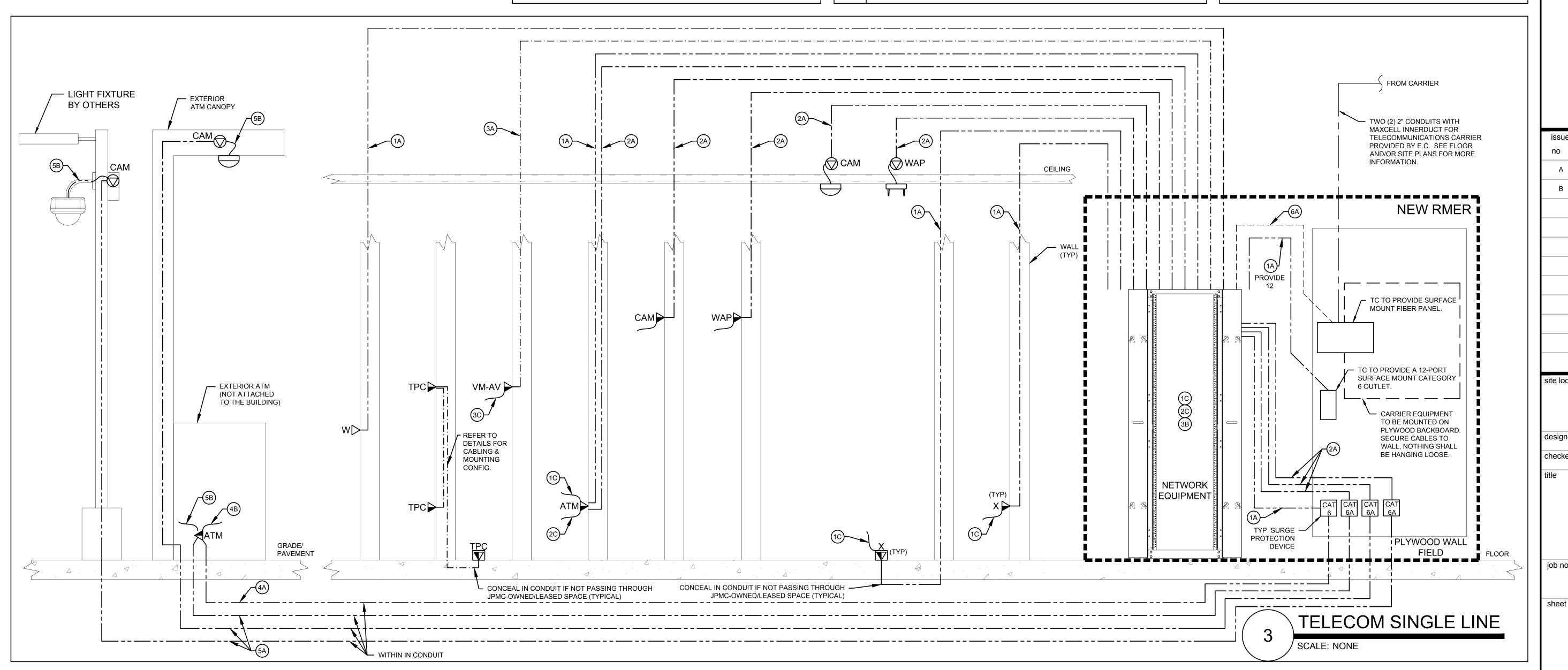
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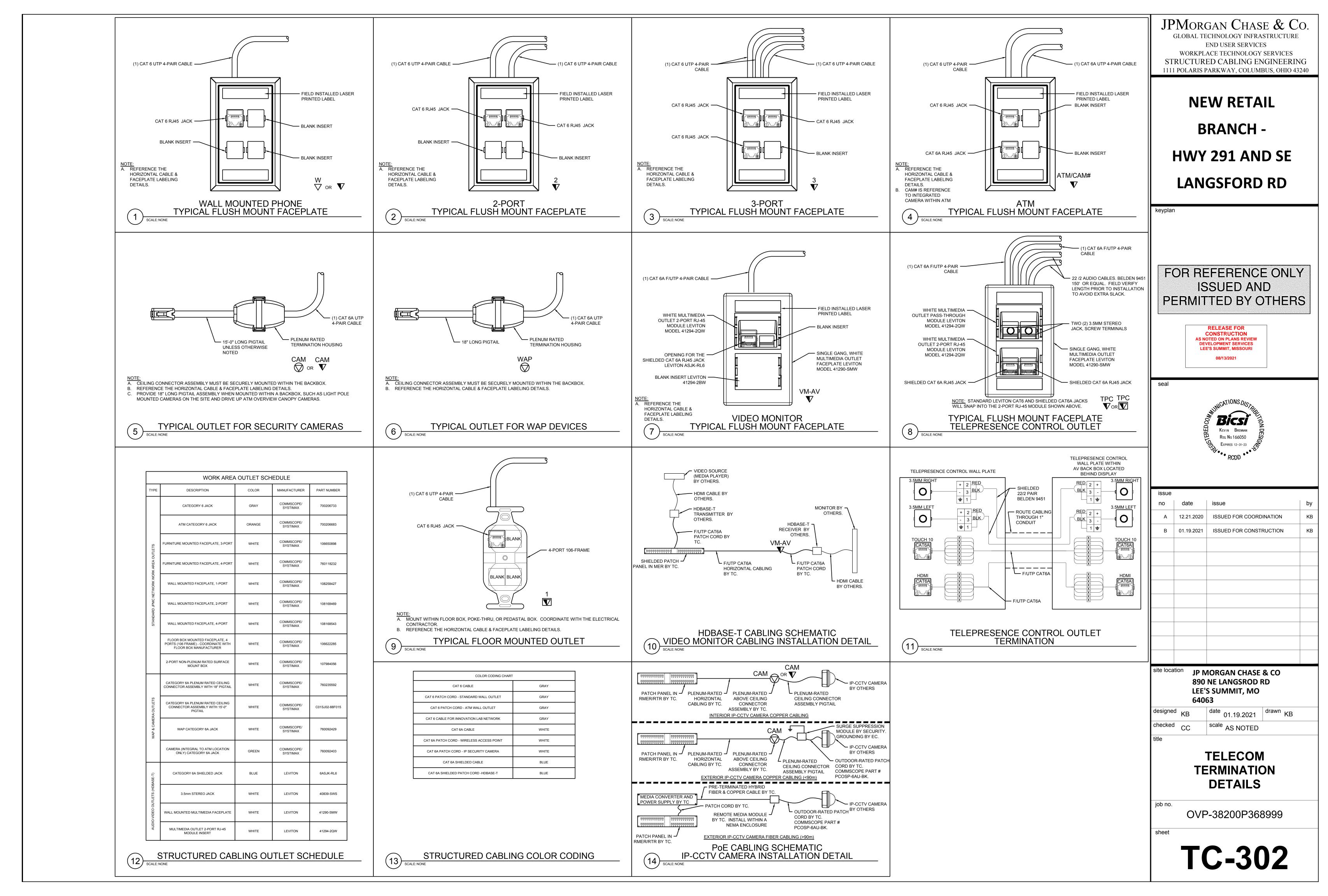
890 NE LANGSROD RD LEE'S SUMMIT, MO

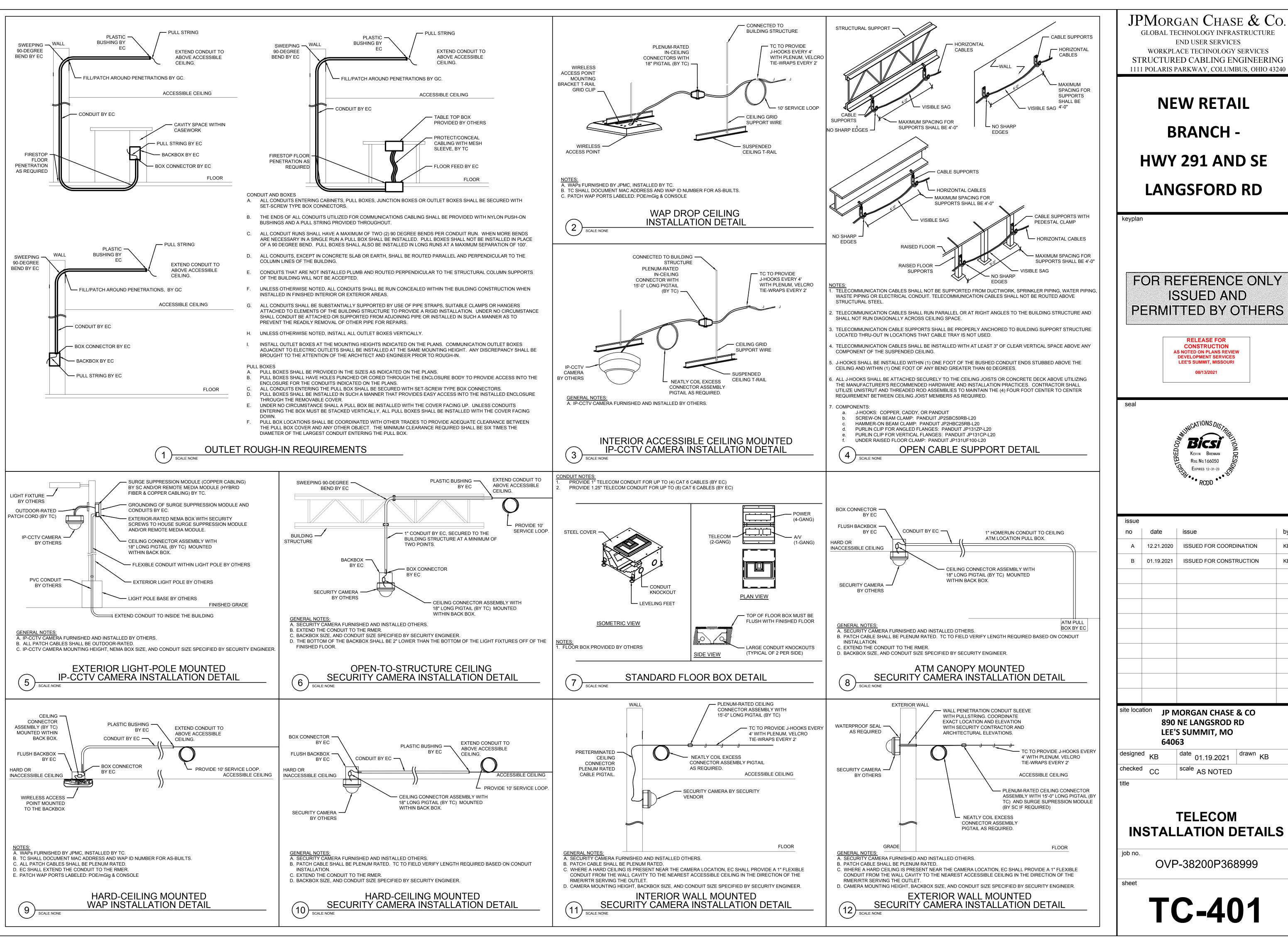
designed KB checked

> **TELECOM** SINGLE LINE **DIAGRAM**

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JPMORGAN CHASE & Co.

END USER SERVICES WORKPLACE TECHNOLOGY SERVICES STRUCTURED CABLING ENGINEERING

NEW RETAIL BRANCH -HWY 291 AND SE LANGSFORD RD



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 08/13/2021



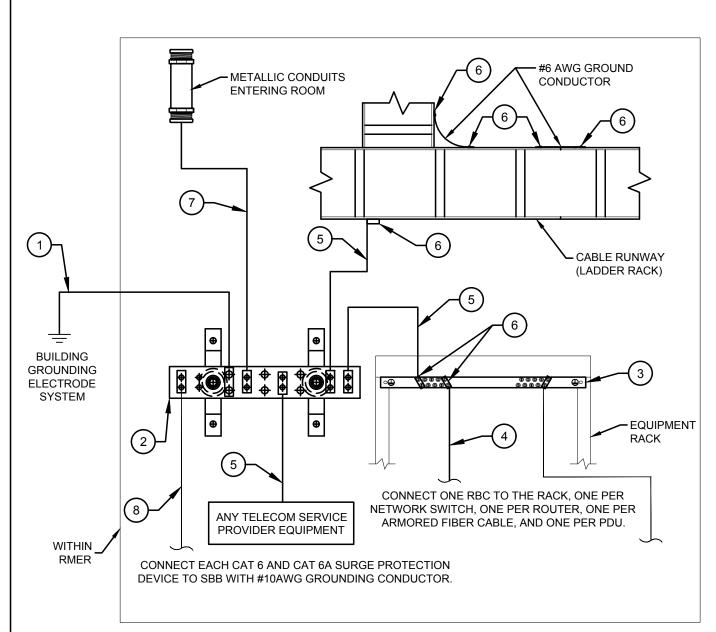
ISSUED FOR COORDINATION ISSUED FOR CONSTRUCTION

JP MORGAN CHASE & CO **890 NE LANGSROD RD** LEE'S SUMMIT, MO

drawn KB 01.19.2021 scale AS NOTED

TELECOM INSTALLATION DETAILS

OVP-38200P368999



	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		

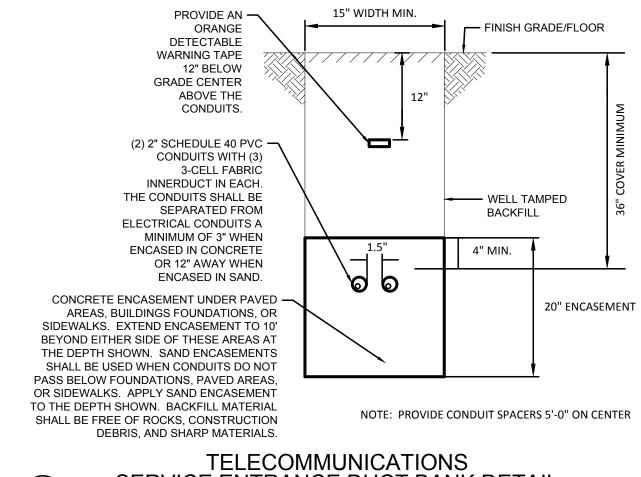
DETAIL NOTES:

TELECOMMUNICATIONS GROUNDING SCHEMATIC

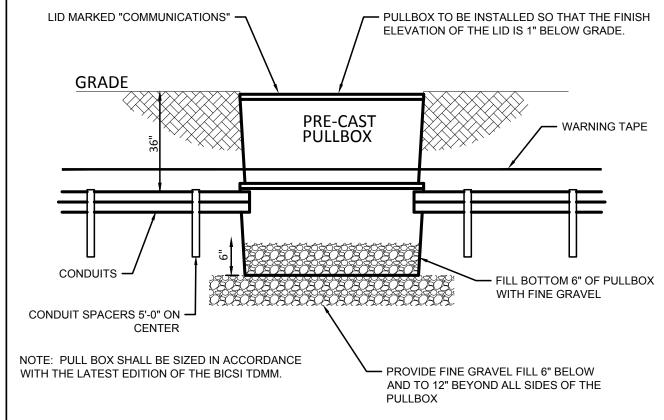
- A.1. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC)
- A.2. SECONDARY BONDING BUSBAR (SBB) A.3. RACK BONDING BUSBAR (RBB)
- A.4. RACK BONDING CONDUCTORS (RBC)
- TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC)
- B. THE TBC SHALL BE SIZED BASED ON THE CONDUCTOR'S LENGTH. THE CONDUCTOR SHALL BE A STRANDED 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
- 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 METIAL 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.
- 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.
- 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.

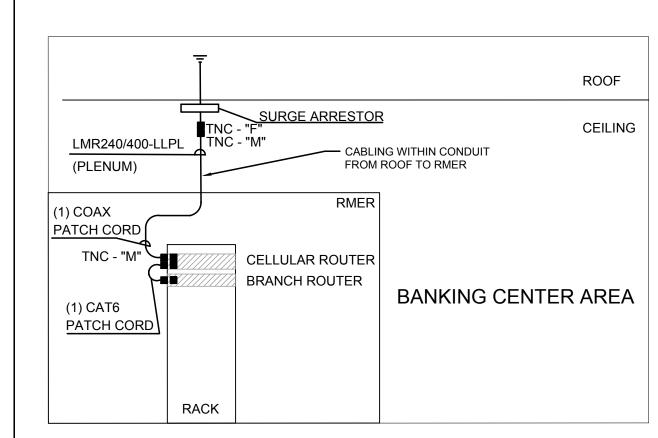
M. PROVIDE BONDING OF ALL METAL CONDUITS ENTERING THE ROOM. PROVIDE GROUNDING BUSHING AS REQUIRED FOR CONNECTION







TELECOMMUNICATIONS SERVICE IN-GRADE PULL BOX DETAIL



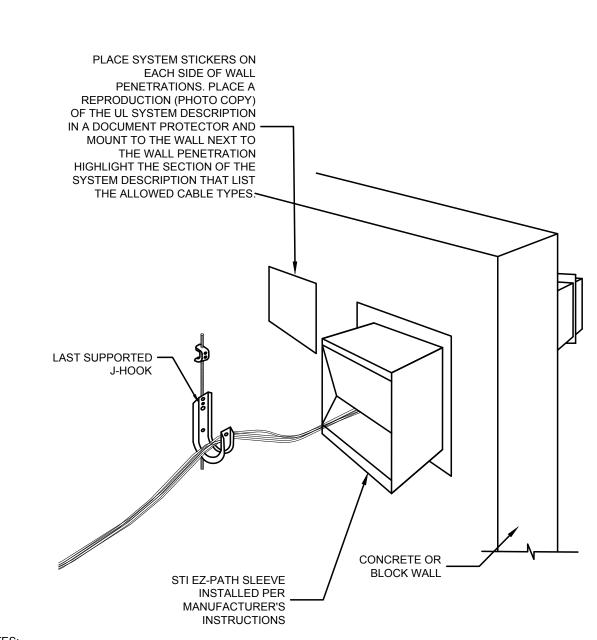
1. DETAIL IS SHOWN FOR REFERENCE ONLY, WIRELESS CELLULAR SYSTEM INFRASTRUCTURE WILL

- 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)
- 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



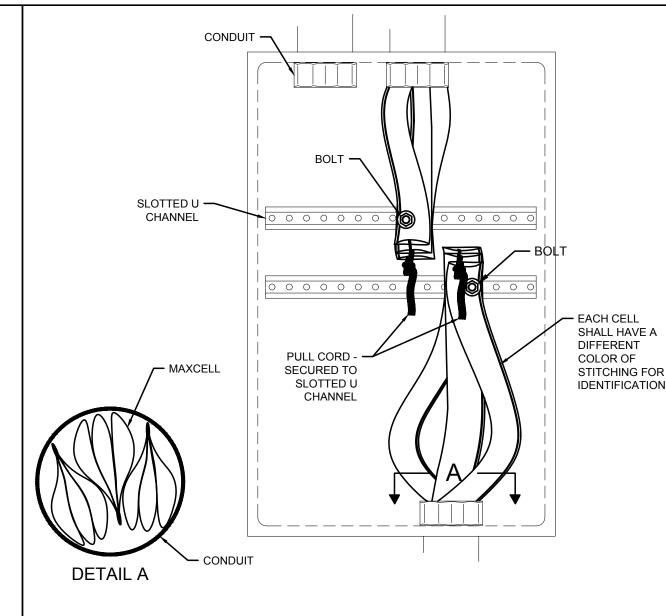


- A. BEFORE BEGINNING INSTALLATION, VERIFY THAT SUBSTRATE CONDITIONS PREVIOUSLY INSTALLED UNDER OTHER SECTIONS ARE ACCEPTABLE FOR INSTALLATION OF FIRESTOPPING IN ACCORDANCE WITH
- B. SURFACES SHALL BE FREE OF DIRT, GREASE, OIL, SCALE, LAITANCE, RUST, RELEASE AGENTS, WATER
- REPELLANTS, AND ANY OTHER SUBSTANCES THAT MAY INHIBIT OPTIMUM ADHESION.
- C. PROVIDE MASKING AND TEMPORARY COVERING TO PROTECT ADJACENT SURFACES.

MANUFACTURER'S INSTALLATION INSTRUCTIONS AND TECHNICAL INFORMATION.

- 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.
- MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF
- G. KEEP AREAS OF WORK ACCESSIBLE UNTIL INSPECTION BY AUTHORITIES HAVING JURISDICTION. I. WHERE DEFICIENCIES ARE FOUND, REPAIR FIRESTOPPING PRODUCTS SO THEY COMPLY WITH
- REMOVE EQUIPMENT, MATERIALS, AND DEBRIS, LEAVING AREA IN UNDAMAGED, CLEAN CONDITION.
- CLEAN ALL SURFACES ADJACENT TO SEALED OPENINGS TO BE FREE OF EXCESS FIRESTOPPING MATERIALS AND SOILING AS WORK PROGRESSES.

CABLE BUNDLE THROUGH PENETRATION DETAIL FOR WALL CONSTRUCTION



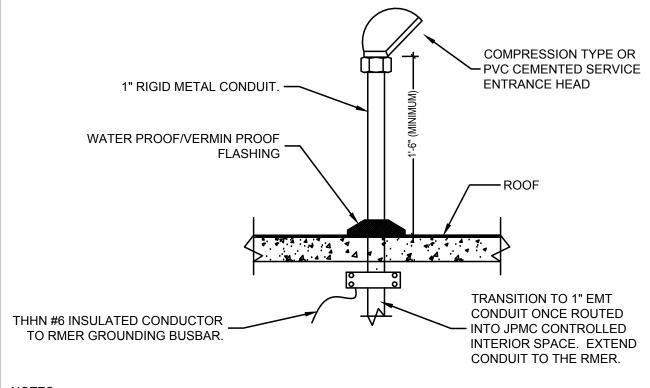
$\frac{\text{NOTES:}}{\text{1. FOR EACH 2 INCH CONDUIT, INSTALL (1) 2 IN - 3 CELL MAXCELL INNERDUCT.}}$

- 2. UNLESS WAIVED IN WRITING BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL ENGAGE MANUFACTURER PRIOR TO THE PULL TO ASSURE RECOMMENDED INSTALLATION METHODS ARE FOLLOWED.
- B. 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
- . CELL ASSIGNMENTS MUST BE DOCUMENTED AT EACH APPEARANCE OF THE INNER DUCT.
- . 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
- 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.
- 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

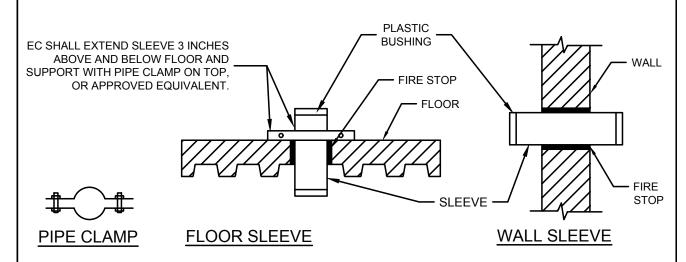
26 (1.03) 34 (1.34) SEE OPR >34 (1.34)

TYPICAL MAXCELL 2", 3-CELL INNERDUCT



. FOR REFERENCE ONLY. EC SHALL COORDINATE INSTALLATION METHOD WITH GC AND ROOF CONTRACTOR AND APPROVAL FROM BUILDING OWNER/MANAGEMENT.

ROOF CONDUIT WEATHERHEAD DETAIL

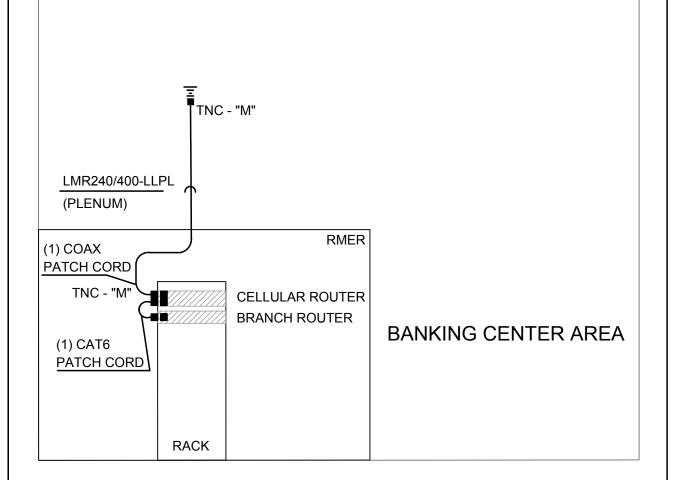


$\underline{\text{NOTES:}}$ 1. CLEAN CORE DRILL, ONE SIZE LARGER THAN SLEEVE.

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

TYPICAL FLOOR AND WALL SLEEVE PENETRATION DETAILS



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. VERIFY ANTENNA, AND CELLULAR ROUTER CONNECTION TYPES PRIOR TO TERMINATING THE COAX
- 4. ALL FIELD TERMINATED CABLES ARE TO BE TESTED

- OUTDOOR OMNIDIRECTIONAL ANTENNA FOR 2G/3G/4G CELLULAR (JPMC SUPPLIED) . 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

CEILING ANTENNA MOUNTING OPTION

GLOBAL TECHNOLOGY INFRASTRUCTURE END USER SERVICES WORKPLACE TECHNOLOGY SERVICES STRUCTURED CABLING ENGINEERING 1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

JPMORGAN CHASE & Co.

NEW RETAIL BRANCH -**HWY 291 AND SE** LANGSFORD RD

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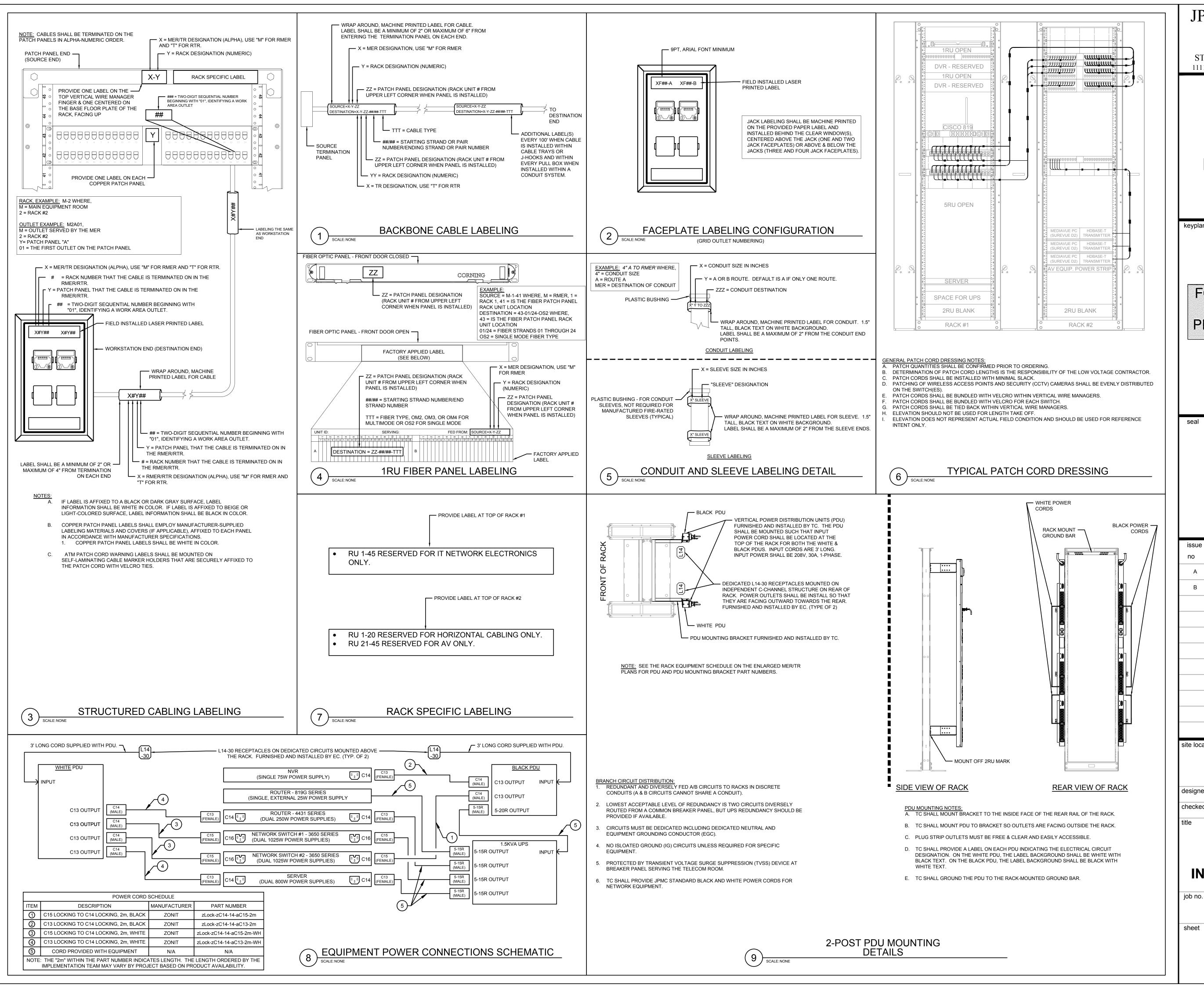
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designed KB 01.19.2021 scale AS NOTED checked

TELECOM INSTALLATION DETAILS

job no.

OVP-38200P368999

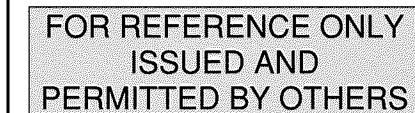


JPMORGAN CHASE & Co. GLOBAL TECHNOLOGY INFRASTRUCTURE

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



RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 08/13/2021



issue			
no	date	issue	
Α	12.21.2020	ISSUED FOR COORDINATION	
В	01.19.2021	ISSUED FOR CONSTRUCTION	
site loca			

890 NE LANGSROD RD LEE'S SUMMIT, MO 64063

designed KB 01.19.2021 scale AS NOTED checked

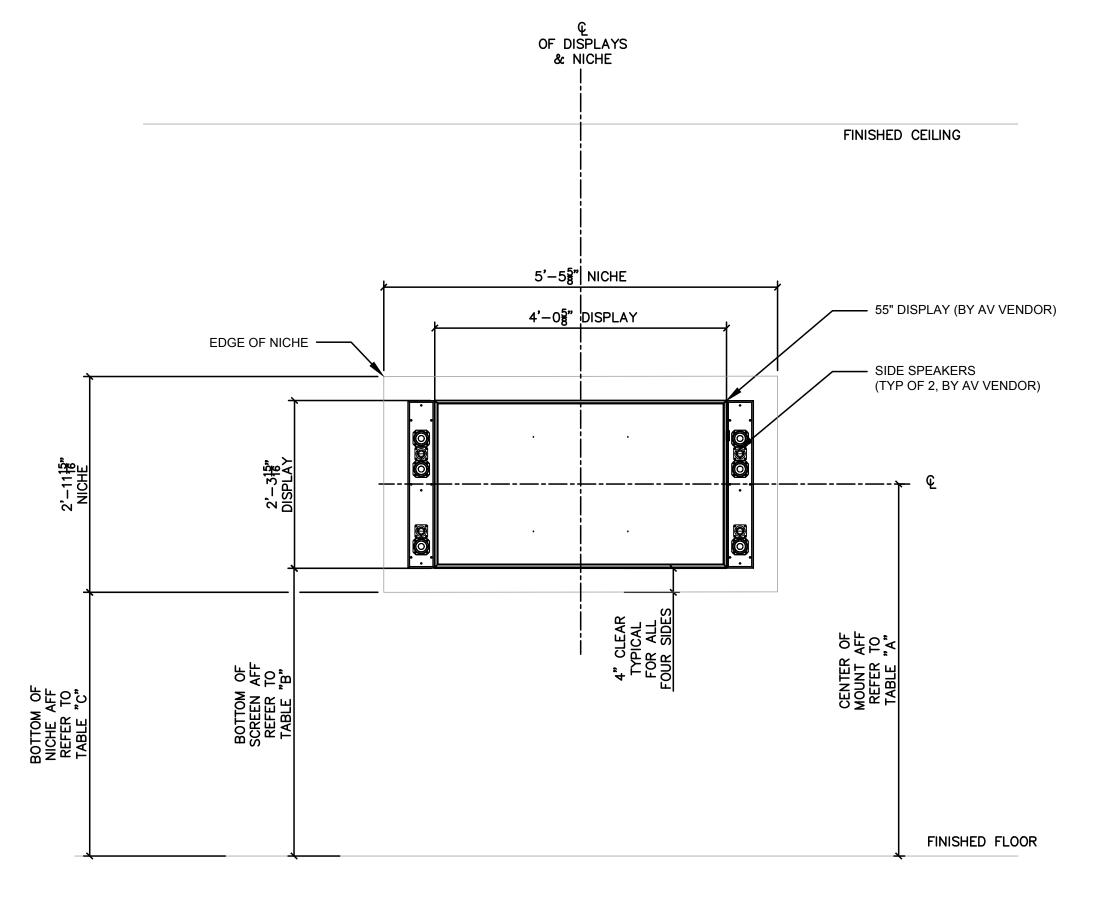
TELECOM INSTALLATION DETAILS

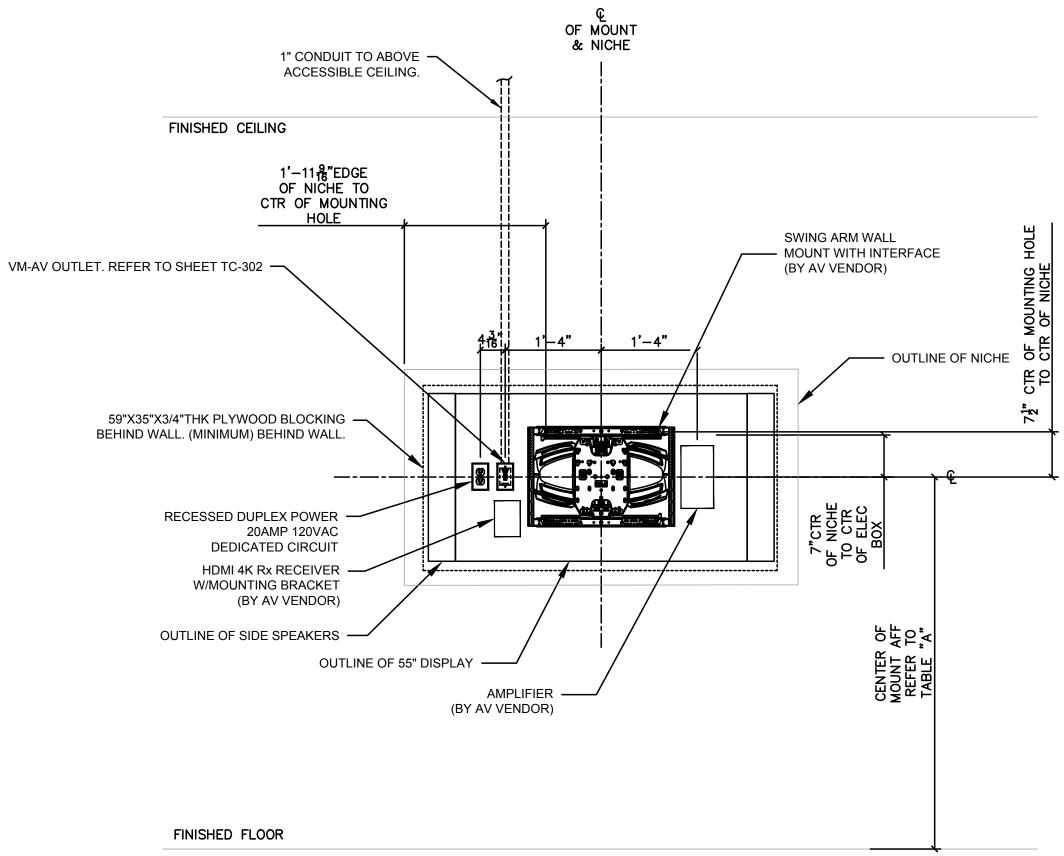
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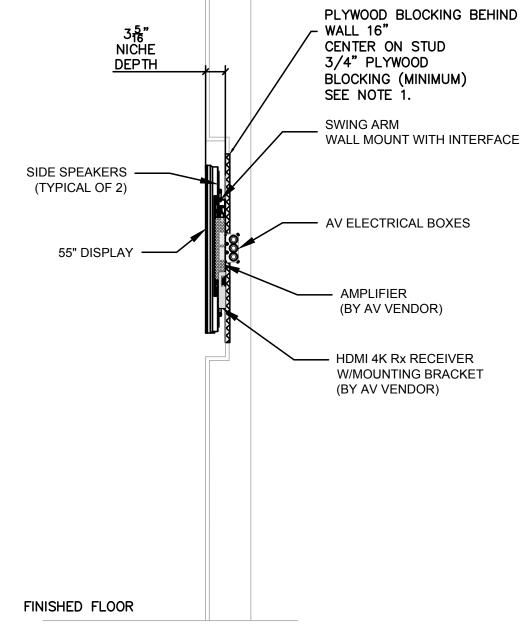
DEVICE NAME	WEIGHT (LBS)
55" DISPLAY	37.70
WALL MOUNT	27.25
SPEAKERS	20.0
TOTAL	84.95

FINISHED FLOOR





AUDIOVISUAL 55" DISPLAY MOUNTING ELEVATION



FINISHED CEILING

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

AUDIOVISUAL 55" DISPLAY ELEVATION

SCALE: 3/4"=1'-0" SOLUTION 1

	 1" CONDUIT
INISHED CEILING	STUB UP INTO CEILING (E.C. TO LEAVE PULL STRING)
	VM-AV OUTLET: RECESSED DUPLEX OUTLET 20AMP
	TC-302
DMED DA	AVP1
RMER RA	

\AUDIOVISUAL CONDUIT RISER DIAGRAM

"A" HEIGHTS "B" I		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			

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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PERMITTED BY OTHERS



seal



date	issue	b
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01.19.2021	ISSUED FOR CONSTRUCTION	K
	12.21.2020	12.21.2020 ISSUED FOR COORDINATION

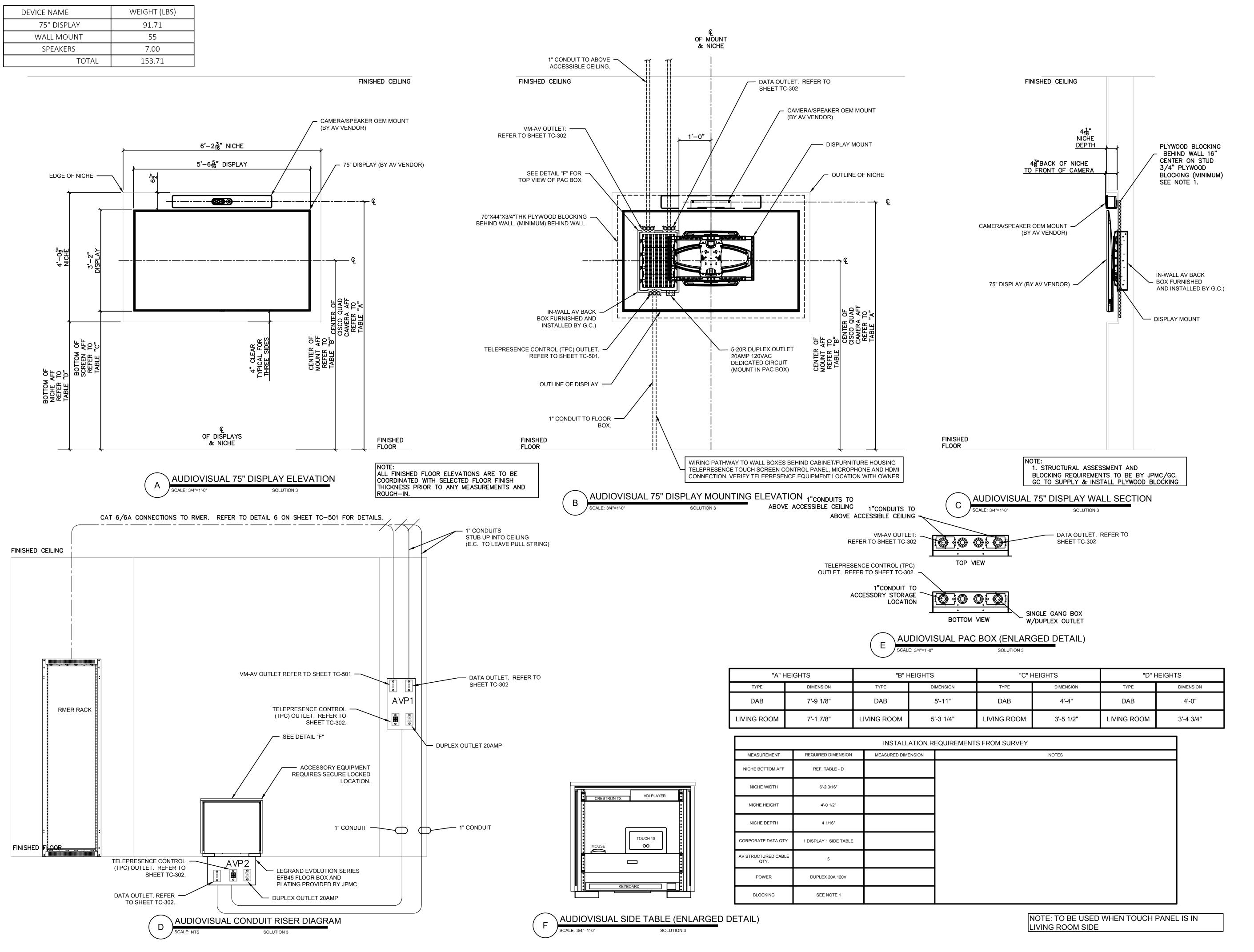
JP MORGAN CHASE & CO 890 NE LANGSROD RD LEE'S SUMMIT, MO

designed KB	date 01.19.2021	^{drawn} KB
checked CC	scale AS NOTED	

AV SOLUTION #1 55" DISPLAY NICHE/RECESS MOUNT

OVP-38200P368999

sheet



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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site location JP MORGAN CHASE & CO **890 NE LANGSROD RD** LEE'S SUMMIT, MO 64063

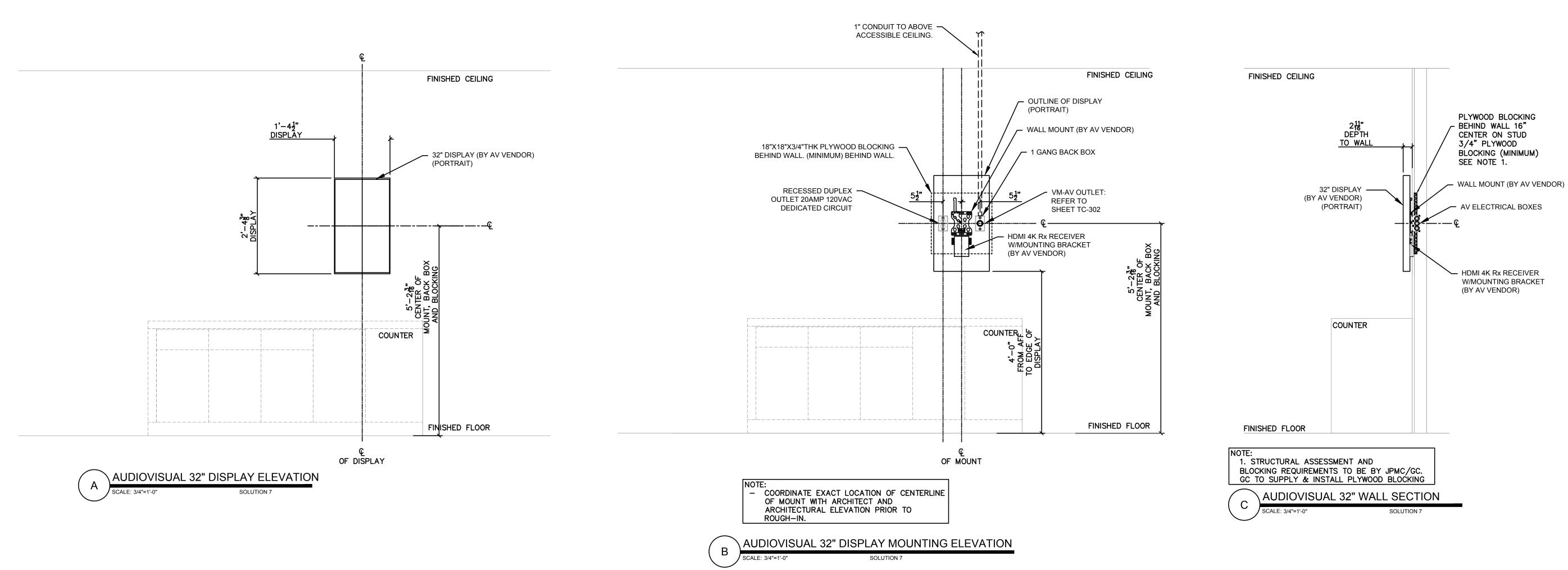
designed	KB	date 01.19.2021	^{drawn} KB
checked	CC	scale AS NOTED	

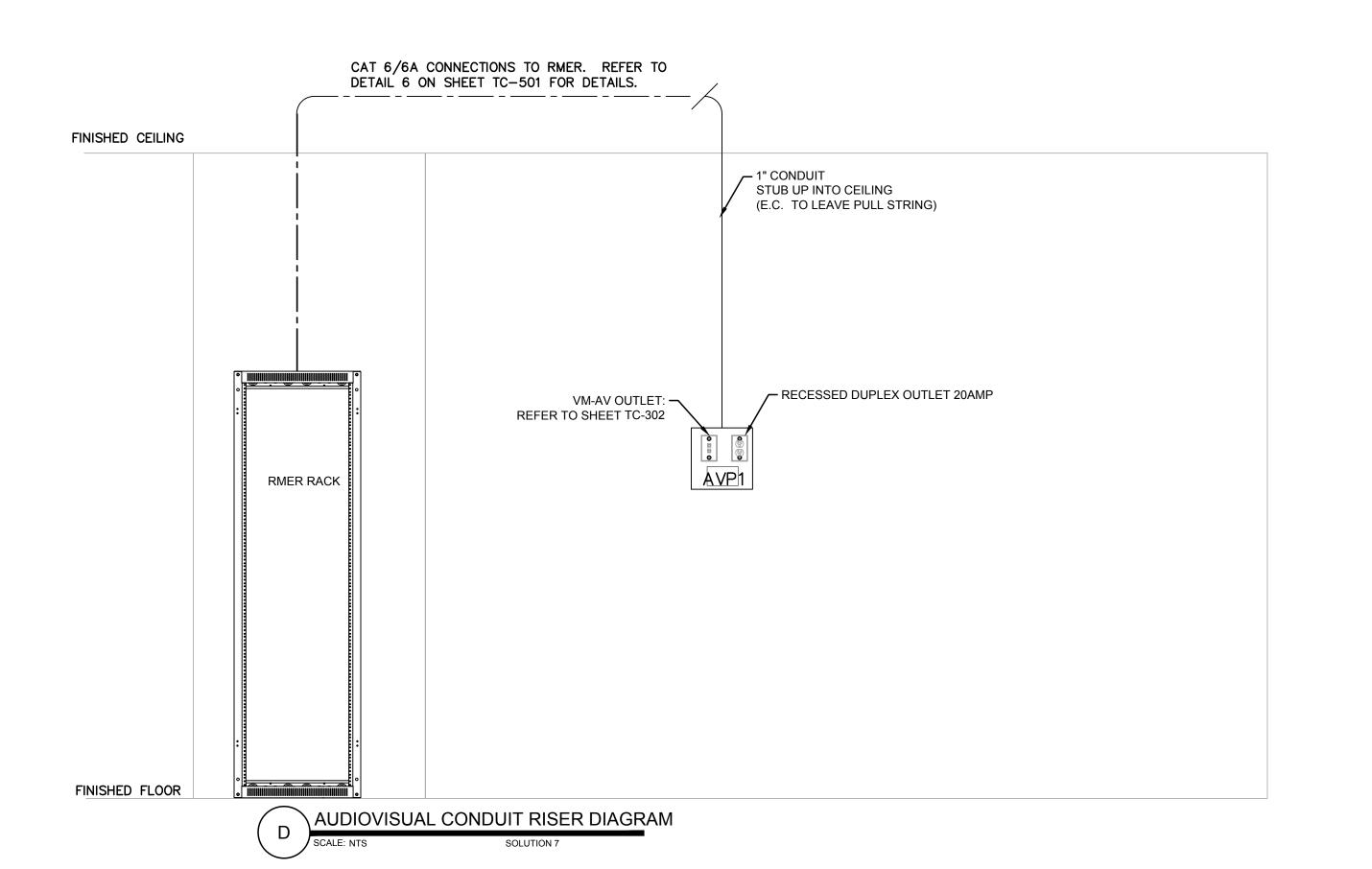
AV SOLUTION #3

75" DISPLAY **NICHE/RECESS MOUNT** TO SIDE TABLE

job no. OVP-38200P368999

DEVICE NAME	WEIGHT (LBS)		
32" DISPLAY	10.70		
WALL MOUNT	3.00		
TOTAL	13.70		





INSTALLATION REQUIREMENTS FROM SURVEY							
MEASUREMENT	REQUIRED DIMENSION	MEASURED DIMENSION	NOTES				
CORPORATE DATA	0						
STRUCTURED CABLE QTY.	1						
POWER	DUPLEX 15A 120V						
BLOCKING	SEE NOTE						

JPMorgan Chase & Co.

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JP MORGAN CHASE & CO 890 NE LANGSROD RD LEE'S SUMMIT, MO

designed KB date 01.19.2021 drawn KB checked CC scale AS NOTED

AV SOLUTION #7
32" DISPLAY
SURFACE MOUNTED

job no.

OVP-38200P368999

ATEGORY	MATERIAL	MANUFACTURER	MODEL NUMBER	QTY	EXT	NOTES
	CATS, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700210198 (REEL)	ø	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)	ø	UF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700211931 (BOX)	ø	UF	
	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	
COPPER CABLING	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760107268 (BOX)	#	LF	
3	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760105817	ø	Ut	
COPP	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-08F007	21	EA	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-08F010	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	B	LF	
	CATEGORY 6, OSP RATED, PATCH CORD BLACK	COMMSCOPE/SYSTIMAX	CO15542-01F007	1	EA	
	CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/SYSTIMAX	760178129	g	UF	
	CATEGORY 6A, OSP RATED, PATCH CORD BLACK	COMMSCOPE/SYSTIMAX	CO15582-01F007	3	EA	
	SHELDED 22/2 PAIR CABLING	BELDEN	9451		LF	
	12-STRAND SINGLE MODE, INDOOR, PLENUM RATED FIBER BACKBONE REEL	CORNING	012E88-33131-29		UF	
FIBER	HYBRID FIBER (2-STRAND SINGLE MODE) WITH COPPER (TWO 12AWG), OUTDOOR RATED HORIZONTAL CABLE	BERK-TEK	ONE-REACH SERIES	ø	UF	
Œ	SINGLE MODE FIBER PATCH CORD - DUPLEX LC	CORNING	787802GD120002M	2	EA	
	MULTIMODE FIBER PATCH CORD - DUPLEX LC TO LC	CORNING	060502T5116002M	2	EA	
	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	
SES	WALL MOUNTED FACEPLATE, 4-PORT	COMMSCOPE/SYSTIMAX	108168543	28	EA	
08 0	2-PORT NON-PLENUM RATED SURFACE MOUNT BOX	COMMSCOPE/SYSTIMAX	107984056	2	EA	
FACEPLATE AND BOXES	4-PORT 106-FRAME FACEPLATE FOR DECORATOR SYTLE FLOOR BOX	COMMSCOPE/SYSTIMAX	106622285	4	EA	
CEPLA	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	760235592	8	EA	
FA	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	C01SJ02-88F015	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	41294-2QW	16	EA	
	3.5mm STEREO JACKS	LEVITON	40839-SWS	4	EA	
8 g	RACK MOUNTED EQUIPMENT GROUND KIT W/ 96" JUMPER		RGREJ696Y	10	EA	
BONDING	BUSBAR-TO-RACK GROUND BAR KIT W/ 15' JUMPER RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT	PANDUIT	GJS6180U RGRB19U	2	EA EA	
9 g	(SEE GROUNDING SCHEMATIC) TWO HOLE LONG BARREL LUG	PANDUIT	LCC6 SERIES		EA	
	2-POST RACK, 4SRU, BLACK FINISH	CPI	66353-703	2	EA	
	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER,	CPI	30095-703	2	EA	
	BLACK FINISH 10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER.	CPI	30096-703	1	EA	
	BLACK FINISH 2RU 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, SHELDED 24-PORT	LEVITON		1		
	PATCH PANEL 1RU FIBER OPTIC PANEL WITH DUPLEX LC CONNECTOR		4\$256-\$24 CCH-01U	1	EA EA	
	PANELS DUPLEX LC CONNECTOR PANELS	CORNING	CCH-CP24-A9	1	EA	
ENTS	BLACK VERTICAL POWER DISTRIBUTION UNIT	CORNING	TS1035241	1	EA	
NO	MOUNTING BRACKET BLACK	CPI	TS1030241	1	EA	
EQUIPMENT ROOM/RACK AND ASSOCIATED COMPONENTS	WHITE VERTICAL POWER DISTRIBUTION UNIT	CPI	TS1035242	1	EA	
JATEL	MOUNTING BRACKET WHITE	CPI CPI	T81030242 T81012713	1	EA	
SSOC	2RU BLANK PANEL - BLACK FINISH	CPI	781012713 30024-702	2	EA	
AND	12" WIDE LADDER RACK - BLACKFINISH	CPI	10250-712	15	LF	
BACK	LADDER RACK STRINGER RADIUS DROP 10.3" W -	CPI	10250-712	3	EA	
OM/I	BLACK FINISH LADDER RACK CABLE RETAINING POSTS	CPI	12101-/11	6	EA	
NT RG	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712	4	EA	
IPME	EQUIPMENT SHELF	CPI	11359-719	4	EA	
EQU	SERVER MOUNTING BRACKET	CPI	11309-719	1	EA	
	12-PORT FIBER ENCLOSURE FOR EXTENSION OF	CORNING	12/61-/19 PWH-02P	1	EA	
	CARRIER CONNECTIONS TO RACK 12-PORT OUTLET FOR COPPER EXTENSION OF	COMMSCOPE	106658156	1	EA	
	CARRIER TO RACK C14-C15 LOCKING POWER CORD (BLACK) 2 METER	ZONIT	(1) zLock-zC14-14-aC15-	1	EA	
	C14-C15 LOCKING POWER CORD (BLACK) 2 METER C14-C15 LOCKING POWER CORD (WHITE) 2 METER	ZONIT	2m (1)zLock-zC14-14-eC15-	2	EA	
	C14-C13 LOCKING POWER CORD (WHITE) 2 METER	ZONT	2m-WH (1) zLock-zC14-14-aC13-	1	EA	
			2m (1) ZLock-zC14-14-eC13-			
	C14-C13 LOCKING POWER CORD (WHTE) 2 METER	ZONIT	2m-WH	2	EA	
	CAT 64 SURGE PROTECTION DEVICE	ITW	CATS-75A	1	EA	
	CAT 6A SURGE PROTECTION DEVICE	ITW	CAT6A-75	3	EA	
93	4" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD44S2	2	EA	
EEVE	WATERFALL ADARTED	sπ	EZRCM44S	3	EA	
SLEEVE	WATERFALL ADAPTER			-		
FIRE RATED SLEEVES	MULTI-GANG PLATE 4" PRE-MANUFACTURED FIRE RATED SSLEEVE FOR	STI STI	EZP544W EZDP44S2	2	EA EA	

	LOCATION	ITEM	LABEL
1	PCS 2 106	DATA CUTLET	M2A0
2	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A00
3	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A0
4	PCS 1 101	DATA OUTLET	M2A0
5	BOOTH 3 103	DATA OUTLET	M2A0
6	BOOTH 4 104	DATA OUTLET	M2A0
7	BOOTH 5 105	DATA OUTLET	M2A0
8	PCS 7 111	DATA OUTLET	M2A0
9	PCS 8 108	DATA OUTLET	M2A0
10	LIVING ROOM 119	DATA OUTLET	M2A1
11	LIVING ROOM 119	DATA OUTLET	M2A1
12	CONFERENCE ROOM 110	DATA OUTLET	M2A 1
13	CONFERENCE ROOM 110	DATA OUTLET	M2A 1
14	CONFERENCE ROOM 110	DATA OUTLET	M2A 1
15	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA OUTLET	M2A1
16	LAO / ACCESS TELLER / ATM & AHD RM 117	DATA CUTLET	M2A1
17	CASH ROOM 116	DATA OUTLET	M2A1
18	PRINT / FILE RM 109	DATA OUTLET	M2A 1
19	PRINT / FILE RM 109	DATA OUTLET	M2A1
20	RMER / DATA 115	DATA OUTLET	M2A2
21	RMER / DATA 115	DATA OUTLET	M2A2
22	RMER / DATA 115	DATA OUTLET	M2A2
23	RMER / DATA 115	DATA OUTLET	M2A2
24	RMER / DATA 115	DATA OUTLET	M2A2
25	LOUNGE 113	WALL PHONE	M2A2
26	CASH ROOM 116	DATA OUTLET	M2A2
27	MANUAL TRANSACTION 114	WALL PHONE	M2A2
28	LAO / ACCESS TELLER / ATM & AHD RM 117	WALL PHONE	M2A2
29	PRINT / FILE RM 109	WALL PHONE	M2A2
30	RMER / DATA 115	WALL PHONE	M2A3
31	LAO / ACCESS TELLER / ATM & AHD RM 117	ATM DATA OUTLET	M2A3
32	LOBBY 120	ATM DATA OUTLET	M2A3
33	LOBBY 120	ATM DATA OUTLET	M2A3
34	LOBBY 120	ATM DATA OUTLET	M2A3
35	MANUAL TRANSACTION 114	TELLER DATA OUTLET	M2A3
36	MANUAL TRANSACTION 114	TELLER DATA OUTLET	M2A3
37	MANUAL TRANSACTION 114	TELLER DATA OUTLET	M2A3
38			
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PORT II	LOCATION	ITEM	LABEL
1	PRINT/FILE RM. 109	WAP 1	M2801
2	LOUNGE 113	WAP 2	M2802
3	LAO / ACCESS TELLER / ATM & AHD RM. 117	WAP 3	M2803
4	LOBBY 120	WAP 4	M2804
5	DRT 121	WAP 5	M2805
6	PCS 7 107	WAP 6	M2806
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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	L08BY 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	MANUAL TRANSACTION 118	CAM #12	M2C12
13	MANUAL TRANSACTION 118	CAM #13	M2C13
14	MANUAL TRANSACTION 118	CAM #14	M2C14
15	LAO / ACCESS TELLER / ATM & AHD RM. 117	CAM #15	M2C16
16	LAO / ACCESS TELLER / ATM & AHD RM. 117	ATM CAM #16	M2C16
17	LOSBY 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

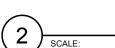
ORTII	LOCATION	ITEM	LABEL
1	UNISEX RESTROOM 1 110	EXT CAM #25	M2001
2	CONF ROOM 106	EXT CAM #26	M2002
3	SITE	ATM CAM #27	M2003
4	SITE	EXT CAM #28	M2D04
5	SITE	EXT CAM #29	M2005
6	LOUNGE 113	SECURITY MONITOR	M2D06
7	LOUNGE 113	SECURITY MONTOR	M2007
8	MANUAL TRANSACTION 118	SECURITY MONITOR	M2D08
9	MANUAL TRANSACTION 118	SECURITY MONITOR	M2009
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ORT II	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
4			
5			
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- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO

- "#" DENOTES THAT THE CONTRACTOR IS TO FIELD VERIFY LENGTHS AND QUANTITIES PRIOR TO PROCUREMENT.

PROJECT BILL OF MATERIALS



PROJECT PANEL SCHEDULE

JPMorgan Chase & Co.

END USER SERVICES WORKPLACE TECHNOLOGY SERVICES STRUCTURED CABLING ENGINEERING 1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

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TELECOM MATERIALS AND PATCH PANEL SCHEDULES

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