VANCOUVER RELO

TENANT IMPROVEMENTS
1209 MAIN STREET
VANCOUVER, WA 98660

CHASE OVP #48200R025765

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APPREVIATIONS

GENERAL ABBREVIATIONS

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

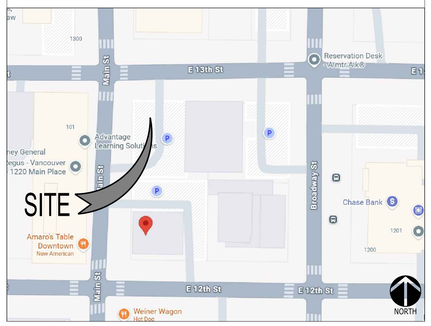
CHASE ABBREVIATIONS

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

RESPONSIBILITY MATRIX - OVERALL

	FURNISHED/ INSTALLED BY OWNER'S EQUIPMENT CONTRACTOR	FURNISHED / INSTALLED BY GENERAL CONTRACTOR (GC)	FURNISHED BY OWNER/ INSTALLED BY GENERAL CONTRACTOR (GC)	COORDINATED BY GENERAL CONTRACTOR (GC)
MONUMENT/PYLON SIGN	●			YES
EXTERIOR BUILDING SIGNAGE (SEE NOTE 4)	●			YES
ATM-WALK-UP / DRIVE-UP (SEE NOTE 3)	●			YES
NIGHT DEPOSITORY / PACKAGE RECEIVER	●			YES
CASH VAULTS & SAFE DEPOSIT CHESTS	●			YES
MERCHANT AND TELLER LINE COUNTERS	●			YES
TELLER CASH DISPENSERS	●			YES
UNDER COUNTER BANK EQUIPMENT	●			YES
SYSTEMS WALL PARTITIONS	●			YES
FURNITURE	●			YES
PLASMA TVs (WHEN SHOWN)	●			YES
EMPLOYEE LOCKERS		●		YES
TELECOMMUNICATIONS	●			YES
DATA PROCESSING	●			YES
SECURITY SYSTEM (SEE NOTE 5)	REFER TO SECURITY DRAWINGS FOR RESPONSIBILITIES			
COPY MACHINE	●			YES
INTERIOR BLDG. SIGNAGE (SEE NOTE 4)	●			YES
TEMPORARY CONSTRUCTION SIGN	●			YES
TOILET ROOM ACCESSORIES (SIGNS SEE NOTE 4)		●		YES
MOTORIZED & MANUAL SHADES		●		YES
CARPET TILE & RESILIENT FLOORING		●		YES
VESTIBULE FLOOR GRATING		●		YES
PORCELAIN TILE FLOORING		●		YES
WOOD FLOORING (SEE NOTE 7)		●		YES
MILLWORK (SEE NOTE 2)		●		YES
PAINTING & WALL COVERING		●		YES
QUEUING ROPES		●		YES
MICROWAVE, REFRIGERATOR, TV		●		YES
PERMANENT CORES / KEYING (SEE NOTE 6)		ALLOWANCE		YES
CHECK DESKS	●			YES
WASTE CONTAINER (EXTERIOR)		●		YES
UTILITIES AND FIRE PROTECTION SERVICES/ CONTACTS		●		YES
HARDWARE		●		YES
BOARDS AND MAGNETIC STRIPS		●		YES

LOCATION MAP



BUILDING AND SITE DATA

JURISDICTION:

ASSESSORS PARCEL NUMBER: 39530000

SHELL BUILDING AND SITE IMPROVEMENTS UNDER SEPARATE PERMIT: CMI-342110 / ENG-83382 / LUP-83381

ZONING: C-X COMMERCIAL MIXED-USE.

PARKING: SCOPE IS TENANT IMPROVEMENT ONLY. SHARED PARKING IN THE BASEMENT AND GROUND LEVEL GARAGE OF SHELL BUILDING.

SITE AREA: 40,075 sf; .92 ACRES

EXISTING SHELL BUILDING AREA: +/-40,000 SF/PER FLOOR; 7-STORY BUILDING WITH BASEMENT(GARAGE)

CHASE TENANT IMPROVEMENT AREA : 5,233 SF

CONSTRUCTION TYPE: I-A (SPRINKLERED)

TENANT OCCUPANCY CLASSIFICATION: B - BUSINESS OCCUPANCY

REFER TO SHEET A0.3.1 FOR MORE DATA INFORMATION.

REFERENCE CODES:
2021 INTERNATIONAL BUILDING CODE, W / WAC 51-50
2021 INTERNATIONAL MECHANICAL CODE, W / WAC 51-52
2021 UNIFORM PLUMBING CODE, W / WAC 51-56
2023 NATIONAL ELECTRICAL CODE (NFPA 70)
2021 INTERNATIONAL FIRE CODE, W / WAC51-54A
2021 WASHINGTON STATE ENERGY CODE, W / WAC 51-11C
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

SCOPE OF WORK
PROPOSED CHASE TENANT IMPROVEMENT AREA / CONSTRUCTION AREA: ± 5,233 SF:

- INTERIOR PARTITIONS FOR OFFICES AND TOILET ROOMS; ALL INTERIOR FINISHES, FURNITURE, CASEWORK AND EQUIPMENT.
- ELECTRICAL, MECHANICAL AND PLUMBING FOR THE TENANT IMPROVEMENTS TO CONNECT TO BUILDING UTILITIES.
- STRUCTURAL TO SUPPORT INTERIOR WALLS, CEILING, SOFFITS AND EQUIPMENT.

PROPOSED PROJECT SHALL COMPLY WITH 2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARDS.

THE PROJECT VALUE IS APPROX. $900,000. THE NEW CONSTRUCTION ARE PROPOSED TO PROVIDE FULL COMPLIANCE WITH REQUIRED ACCESSIBILITY FEATURES SERVING THE AREA OF WORK IN CONFORMANCE WITH ICC A117.1-2009.

GENERAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, REGULATIONS, ORDINANCES AND STANDARDS INCLUDING ADA AND OR OTHER HANDICAP ACCESSIBILITY CODES.
2. THE ARCHITECT OF RECORD SHALL DESIGN, AND THE GENERAL CONTRACTOR SHALL CONSTRUCT. THE BUILDING TO CONFORM TO THE LEASST RESTRICTIVE AND MOST ECONOMICAL I.B.C. CONSTRUCTION TYPE PERMITTED BY AUTHORITIES HAVING JURISDICTION. FOR NEW-CONSTRUCTION "PROTOTYPICAL" PROJECTS, CONSTRUCTION TYPE V-B IS GENERALLY SUFFICIENT. CONSTRUCTION SHALL CONFORM TO I.B.C. 602.1.1 MINIMUM REQUIREMENTS:
   - A BUILDING OR PORTION THEREOF SHALL NOT BE REQUIRED TO CONFORM TO THE DETAILS OF A TYPE OF CONSTRUCTION HIGHER THAN THAT TYPE WHICH MEETS THE MINIMUM REQUIREMENTS BASED ON OCCUPANCY EVEN THOUGH CERTAIN FEATURES OF SUCH A BUILDING ACTUALLY CONFORM TO A HIGHER TYPE OF CONSTRUCTION.
3. GEN. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDORS REGARDING SCHEDULING AND SEQUENCING OF THE WORK.
4. THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY THE FINEST QUALITY OF CONSTRUCTION, MATERIAL AND WORKMANSHIP THROUGHOUT.
5. THE DRAWINGS ARE NOT TO BE SCALED. FOR INFORMATION CONCERNING EXISTING CONDITIONS, ETC., VERIFICATION MUST BE DONE IN THE FIELD. LARGE SCALE DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS.
6. 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. G.C. SHALL BE RESPONSIBLE FOR SET-UP AND COORDINATION OF ALL THE UTILITY SERVICES FOR THE PROJECT.
7. GENERAL CONTRACTOR SHALL ALSO OBTAIN FINAL SITE ADDRESS.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY VARIANCE OR DISCREPANCY AFFECTING NEW CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING IN WALLS FOR SUPPORT OF ALL EQUIPMENT, SHELVING, ACCESSORIES, SIGNAGE, AND OTHER DEVICES REQUIRED.
10. ALL PENETRATIONS SHALL RECEIVE CAULKING TO SEAL ANY TYPE OF ENERGY LOSS.
11. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL APPLICABLE DIMENSIONS OF FIXTURES AND EQUIPMENT SUPPLIED AND/OR INSTALLED BY OTHERS.
12. UPON COMPLETION OF PROJECT, OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.
13. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SITE CUT & FILL TO ATTAIN FINISH GRADES AS INDICATED ON THESE DRAWINGS. GENERAL CONTRACTOR SHALL INCLUDE THE COST OF ANY TOPSOIL REQUIRED IN ADDITION TO THAT ON SITE, AT THE TIME OF THE PRE-BID MEETING. IN BASE BID.
14. GENERAL CONTRACTOR SHALL INCLUDE THE COST OF POWER COMPANY ELECTRICAL TRANSFORMER, PAD, PRIMARY & SECONDARY CONDUITS, AND SECONDARY CABLING IN BASE BID.
15. SIGNAGE:
   - 15.1. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CODE-REQUIRED EXTERIOR DIRECTIONAL TRAFFIC SIGNAGE.
   - 15.2. OWNER'S SIGNAGE VENDOR SHALL PROVIDE AND INSTALL ALL NON-CODE-REQUIRED SITE DIRECTIONAL AND EQUIPMENT INSTUCTIONAL SIGNAGE.
   - 15.3. UNLESS OTHERWISE DIRECTED BY THE OWNER, GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BASE WORK FOR SITE MONUMENT AND/OR PYLON SIGN(S), INCLUDING EXCAVATION, CONCRETE FOUNDATION, SIGN BASE VENEER/FINISH AND CAP WHEN REQUIRED, ELECTRICAL ROUGH-IN AND WIRING TO BASE-MOUNTED SIGN JUNCTION BOX, FINISH GRADING AND LANDSCAPING.
   - 15.4. OWNER'S SIGN CONTRACTOR SHALL PROVIDE AND INSTALL BUILDING EXTERIOR AND SITE BRAND SIGNAGE, AND MAKE FINAL ELECTRICAL CONNECTIONS FROM SIGN JUNCTION BOXES.
   - 15.5. OWNER'S SIGN VENDOR SHALL PROVIDE AND INSTALL ALL INTERIOR BRAND, ROOM IDENTIFICATION, AND ACCESSIBILITY SIGNAGE. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BLOCKING AS REQUIRED FOR SIGNAGE SUPPORT AND ELECTRICAL ROUGH-IN AND WIRINGTO ALL POWERED SIGNS FOR FINAL CONNECTION BY THE OWNER'S SIGNAGE VENDOR.
16. GENERAL CONTRACTOR TO PROVIDE FOUR (4) 30 YARD DUMPSTERS DURING CHASE RETAIL MOVE-IN.
17. GENERAL CONTRACTOR SHALL PROVIDE ONE SKILLED LABORER FOR ONE WEEK DURING CHASE RETAIL MOVE-IN. (40 HOURS).
18. GENERAL CONTRACTOR SHALL PERFORM A TOPOGRAPHIC SURVEY PRIOR TO STARTING CONSTRUCTION AND REPORT ANY DISCREPANCIES IN GRADES AS COMPARED TO EXISTING GRADES INDICATED ON CIVIL DRAWINGS. SUBMIT A COPY OF TOPOGRAPHIC SURVEY TO ARCHITECT AND INDICATE ANY DISCREPANCIES ON SURVEY PRIOR TO COMMENCING EARTHWORK.
19. ALL EXTERIOR FLOOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF MASONRY UNLESS OTHERWISE NOTED. ALL INTERIOR FLOOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.

SEPARATE /DEFERRED SUBMITTALS

THE FOLLOWING SUBMITTAL ARE UNDER SEPARATE PERMIT AND DEFERRED PLAN REVIEW:
1. EXTERIOR BUILDING SIGNAGE
2. FIRE ALARM / FIRE SPRINKLER

FIRE DEPARTMENT NOTES

- BUILDINGS UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH IFC CHAPTER 14
- ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
- PROVIDE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS IN TYPE, NUMBER AND LOCATION AS DIRECTED BY THE FIRE DEPARTMENT FIELD INSPECTOR
- GENERAL CONTRACTOR SHALL VERIFY, COORDINATE AND/OR INSTALL ANY SMOKE DETECTION AND/OR FIRE ALARM CONNECTORS AS REQUIRED PER LANDLORD AND JURISDICTION HAVING AUTHORITY. ALARMS ARE REQUIRED IN THE RESTROOMS AS A COMMON USE AREA, IF ALARMS ARE PROVIDED.
- ALL REQ. PERMITS AND APPROVALS MUST BE OBTAINED FROM THE FIRE DEPARTMENT BEFORE BUILDINGS ARE OCCUPIED.
- DURING CONSTRUCTION THE GENERAL CONTRACTOR IS TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A WITHIN (75 FT.) FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.
- FIRE EXTINGUISHERS SHALL BE LOCATED AS INDICATED ON PLAN, OR AS DIRECTED BY FIRE DEPT. AT LEAST ONE FIRE EXTINGUISHER WITH A MIN RATING OF 2A10BC SHALL BE PROVIDED WITH 75' MAX TRAVEL DISTANCE FOR EACH 6000 SF OR PORTION THEREOF ON EACH FLOOR.
- A KNOX BOX WITH A MASTER KEY SHALL BE PROVIDED IN A LOCATION APPROVED BY THE LOCAL FIRE DEPARTMENT.

DRAWING SYMBOLS LEGEND

- W1 — CONSTRUCTION TYPE
- A1 — WINDOW
- C — DOOR
- FTS-5 — FINISH MATERIAL
- OE 17 — EQUIPMENT / FURNITURE / DEVICE
- T.O. STEEL 12'-1 1/2" — EQUIPMENT / FURNITURE / DEVICE
- 4 / A2.1.2 — EXTERIOR ELEVATION
- 7 / A6.3 / 5 / 8 — INTERIOR ELEVATION
- 3 / A2.1 — SECTION
- 7 / A0.2.4 — DETAIL- VERTICAL
- 5 / A4.3 — DETAIL- HORIZONTAL
- A.23 — KEYNOTE
- OFFICE 3 — ROOM / AREA DESIGNATION
- 1 — DRAWING REVISION

RESPONSIBILITY MATRIX NOTES

1. FOR OWNER'S EQUIPMENT GENERAL CONTRACTOR TO PROVIDE REQUIRED OPENINGS, ACCESS PANELS, AND ELECTRICAL REQUIREMENTS (INCLUDING FINAL HOOK-UP).
2. MILLWORK ITEMS. GENERAL CONTRACTOR TO PROVIDE "BACK OF STORE" MILLWORK WHICH INCLUDES BASE AND WALL CABINETS, WORK COUNTERS, SHELVING AND COAT SHELF; WOOD FINISH AT SOLUTION 3 WALL; AND WOOD FINISH AT BOOTHS.
3. ATM UNITS, ATM BUILDING, ATM SURROUNDS. GENERAL CONTRACTOR TO PROVIDE POWER. BANK EQUIPMENT VENDOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE FLEXIBLE CONDUIT AND POWER TRANSITION BOX.
4. SIGNAGE TO INCLUDE DIRECTIONAL SIGNAGE, AND MAIN BUILDING LETTER SET. GENERAL CONTRACTOR TO PROVIDE CONDUIT, ROUGH-IN & FINAL ELECTRICAL CONNECTIONS.
5. ELECTRONIC SECURITY SYSTEM INCLUDING ALARM AND CCTV. GENERAL CONTRACTOR TO PROVIDE CONDUITS, POWER, AND PLYWOOD AT PHONE ROOM.
6. FINAL KEYING SHALL BE PURCHASED BY THE CONTRACTOR. THE FACILITIES MANAGER SHALL COORDINATE LOCAL LOCKSMITH TO REKEY ALL LOCKS AT TURNOVER DATE TO BRANCH PLANNING. ALL MILLWORK LOCKS KEYED TO 1060, UNIQUE FROM OTHER FURNITURE AND TELLER UNDER COUNTER STEEL. (12 KEYS PER BRANCH).
7. EQUIPMENT CONTRACTOR IS A SUBCONTRACTOR OF THE OWNER.
8. G.C. TO PROVIDE ON-SITE CAMERA DURING CONSTRUCTION. CONTACT EARTH CAM - CAITLINN ASHLEY. SEE VENDOR CONTACT LIST.

PREPARED FOR:
CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO
1209 MAIN ST.
VANCOUVER, WA 98660

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

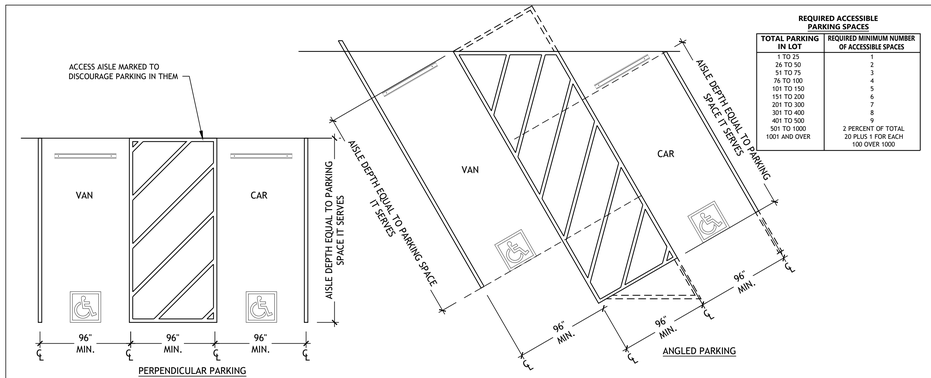
PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL
DRAWING STANDARDS v20.7

SHEET TITLE
COVER SHEET

SHEET NUMBER
A0.0



REQUIRED ACCESSIBLE PARKING SPACES

TOTAL PARKING IN LOT	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000

ACCESSIBLE PARKING SPACE NOTES:

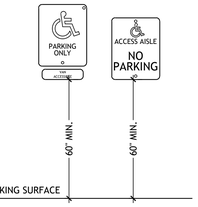
1. CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE.
2. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE
3. ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES WIDE MINIMUM. ACCESS AISLES SERVING VAN PARKING SPACES SHALL BE 96 INCHES MINIMUM IN WIDTH.
4. ACCESS AISLES SHALL EXTEND THE FULL REQUIRED LENGTH OF THE PARKING SPACES THEY SERVE.
5. ACCESS AISLES SHALL BE MARKED TO DISCOURAGE PARKING IN THEM.
6. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE. ACCESS AISLES SHALL NOT OVERLAP WITH THE VEHICULAR WAY. PARKING SPACES SHALL BE PERMITTED TO HAVE ACCESS AISLES PLACED ON EITHER SIDE OF THE CAR OR VAN PARKING SPACE. VAN PARKING SPACES THAT ARE ANGLED SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.
7. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
8. PARKING SPACES, ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98 INCHES MINIMUM.
9. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.
10. WHEREVER PRACTICAL, THE ACCESSIBLE ROUTE SHALL NOT CROSS LANES OF VEHICULAR TRAFFIC.
11. WHERE CROSSING TRAFFIC LANES IS NECESSARY, THE ROUTE SHALL BE DESIGNATED AND MARKED AS A CROSSWALK.

ACCESSIBLE ROUTE FROM PARKING:

1. WHEREVER PRACTICAL, THE ACCESSIBLE ROUTE SHALL NOT CROSS LANES OF VEHICULAR TRAFFIC.
2. WHERE CROSSING LANES IS NECESSARY, THE ROUTE SHALL BE DESIGNATED AND MARKED AS A CROSSWALK.

ACCESSIBLE PARKING SPACES

N.T.S. | 1101.2.7, 1101.2.8, 1106.7,502 | 17.09.22 | **12**

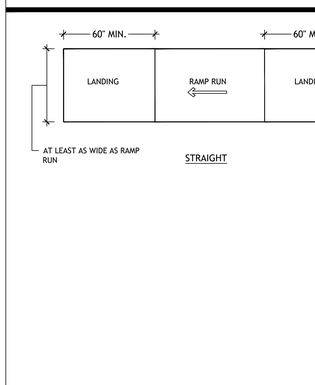


SIGNAGE AND IDENTIFICATION OF SPACE NOTES:

1. ACCESSIBLE PARKING SPACES SHALL BE INDICATED BY A VERTICAL SIGN. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 703.6.3.1. SUCH SYMBOL SHALL BE WHITE ON A BLUE BACKGROUND.
2. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE."
3. THE SIGN MAY INCLUDE ADDITIONAL LANGUAGE SUCH AS, BUT NOT LIMITED TO, AN INDICATION OF THE AMOUNT OF THE MONETARY PENALTY DEFINED IN RCW 46.19.050 FOR PARKING IN THE SPACE WITHOUT A VALID PERMIT.
4. A VERTICAL "NO PARKING" SIGN SHALL BE ERECTED AT THE HEAD OF EACH ACCESS AISLE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE. THE SIGN MAY INCLUDE ADDITIONAL LANGUAGE SUCH AS, BUT NOT LIMITED TO, AN INDICATION OF ANY PENALTY FOR PARKING IN AN ACCESS AISLE.
5. SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FLOOR OF THE PARKING SPACE, MEASURED TO THE BOTTOM OF THE SIGN.

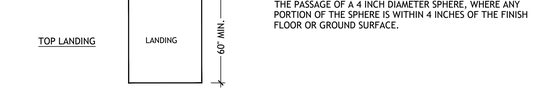
ACCESSIBLE PARKING SIGNS

N.T.S. | 1101.2.9, 502.7 | 17.09.22 | **4**



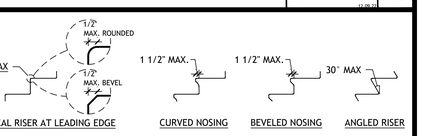
CURB RAMP NOTES:

1. A LANDING 48 INCHES MINIMUM BY 48 INCHES MINIMUM SHALL BE PROVIDED AT THE TOP OF A CURB RAMP. THE LANDING SHALL BE PERMITTED TO OVERLAP PEDESTRIAN ROUTES AND CLEAR SPACES. WHERE THE LANDING IS CONSTRAINED AT THE BACK-OF-SIDEWALK, THE LANDING SHALL BE 48 INCHES MINIMUM BY 60 INCHES MINIMUM. THE 60-INCH DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE CURB RAMP RUN. THE SLOPE OF LANDINGS SHALL BE 1:48 MAXIMUM IN ALL DIRECTIONS.
2. THE RUNNING SLOPE OF A CURB RAMP SHALL CUT THROUGH OR SHALL BE BUILT UP TO THE CURB AT RIGHT ANGLES OR SHALL MEET THE GUTTER GRADE BREAK AT RIGHT ANGLES WHERE THE CURB IS CURVED. THE RUNNING SLOPE OF A CURB RAMP SHALL BE 1:20 MINIMUM AND 1:12 MAXIMUM. THE CURB RAMP RUN LENGTH SHALL NOT BE REQUIRED TO EXCEED 15 FEET.
3. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES A CURB RAMP, FLARED SIDES SHALL BE PROVIDED AND SHALL BE SLOPED 10 PERCENT MAXIMUM.
4. A LANDING 48 INCHES MINIMUM BY 48 INCHES MINIMUM SHALL BE PROVIDED AT THE BOTTOM OF A PARALLEL CURB RAMP. THE LANDING SHALL BE PERMITTED TO OVERLAP PEDESTRIAN ROUTES AND CLEAR SPACES. WHERE THE LANDING IS CONSTRAINED ON TWO OR MORE SIDES, THE LANDING SHALL BE 48 INCHES MINIMUM BY 60 INCHES MINIMUM. THE 60 INCHES DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING. THE SLOPE OF LANDINGS SHALL BE 1:48 MAXIMUM IN ALL DIRECTIONS.
5. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE CURB RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF CURB RAMP RUNS AND LANDINGS. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
6. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
7. THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), SHALL BE 48 INCHES MINIMUM.
8. THE CROSS SLOPE OF CURB RAMPS SHALL BE 1:48 MAXIMUM.
9. COUNTER SLOPES OF ADJOINING GUTTERS, AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.



CURB RAMPS

N.T.S. | 406 | 17.09.22 | **15**



VERTICAL CHANGE IN LEVEL

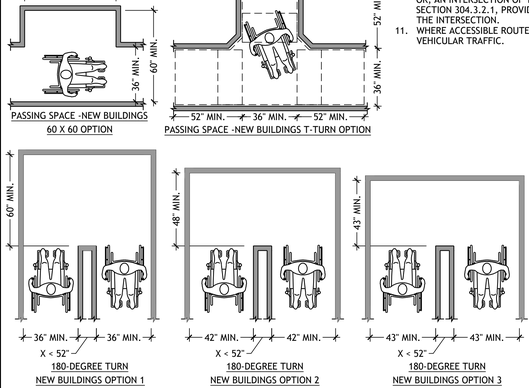
BEVELED CHANGE IN LEVEL

CHANGES IN LEVEL NOTES:

1. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.
2. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
3. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED.

CHANGES IN LEVEL

N.T.S. | 303 | 17.09.22 | **11**



PROTRUDING OBJECT NOTES:

1. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.
2. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES MAXIMUM WHEN LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
3. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES, THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND. THE SLOPING PORTIONS OF HANDRAILS SERVING STAIRS AND RAMPS SHALL NOT BE REQUIRED TO COMPLY.
4. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
5. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

PROTRUDING OBJECTS

N.T.S. | 307 | 17.09.22 | **3**

HANDRAIL NOTES:

1. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS THAT EXCEED 6 INCHES IN RISE.
2. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
3. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
4. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1-1/2 INCHES MINIMUM.
5. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1-1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
6. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.
7. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6-1/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2-1/4 INCHES MAXIMUM.
8. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
9. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
10. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
11. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

HANDRAILS

N.T.S. | 505 | 17.09.22 | **14**

RAMP NOTES:

1. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
2. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.
3. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
4. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 36 INCHES MINIMUM. HANDRAILS AND HANDRAIL SUPPORTS THAT ARE PROVIDED ON THE RAMP RUN SHALL NOT PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP RUN.
5. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.
6. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN.
7. RAMP LANDING SLOPES SHALL NOT BE STEEPER THAN 1:48.
8. LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.
9. LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.
10. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 60 INCHES MINIMUM.
11. A CURB, OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE.

RAMPS

N.T.S. | 405 | 17.09.22 | **13**

GROUND SURFACE NOTES:

1. FLOOR & GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD.
3. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER.
4. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

FLOOR OR GROUND SURFACES

N.T.S. | 302 | 17.09.22 | **10**

STAIRWAY NOTES:

1. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. TREADS SHALL BE 11 INCHES DEEP MINIMUM.
2. OPEN RISERS ARE NOT PERMITTED.
3. TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:48.
4. NOSINGS WITHIN A STAIRWAY SHALL BE UNIFORM.
5. IF ROUNDED, THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM.
6. IF BEVELED, THE BEVEL AT THE LEADING EDGE SHALL SLOPE AT 45 DEGREES TO THE PLANE OF THE TOP SURFACE OF THE TREAD AND LANDING AND EXTEND FOR A HORIZONTAL DISTANCE OF 1/2 INCH MAXIMUM.
7. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED.
8. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL.
9. THE PERMITTED PROJECTION OF THE NOSING SHALL BE 1 1/2 INCHES MAXIMUM OVER THE TREAD OR FLOOR BELOW.
10. THE LEADING 1 TO 2 INCHES OF EVERY TREAD AND LANDING, MEASURED HORIZONTALLY FROM THE LEADING EDGE OF THE NOSING, SHALL CONSIST OF A SOLID COLOR HAVING VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD. THE CONTRASTING MARKING SHALL BE DURABLE AND SHALL EXTEND FROM ONE SIDE OF EACH TREAD TO THE OTHER SIDE OF EACH TREAD.

STAIRWAYS

N.T.S. | 504 | 17.09.22 | **9**

WALKING SURFACES NOTES:

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT.
2. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20.
3. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
4. THE CLEAR WIDTH OF AN INTERIOR ACCESSIBLE ROUTE SHALL BE 36 INCHES MINIMUM. THE CLEAR WIDTH OF AN EXTERIOR ACCESSIBLE ROUTE SHALL BE 48 INCHES MINIMUM.
5. IN NEW BUILDINGS AND FACILITIES, THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THE REDUCED-WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 52 INCHES MINIMUM IN LENGTH AND 36 INCHES MINIMUM IN WIDTH.
6. THE CLEAR WIDTH OF AN EXTERIOR ACCESSIBLE ROUTE LOCATED WITHIN SEATING AREAS SHALL BE 36 INCHES MINIMUM.
7. IN NEW BUILDING AND FACILITIES, WHERE AN ACCESSIBLE ROUTE MAKES A 180-DEGREE TURN AROUND AN OBJECT THAT IS EQUAL TO OR GREATER THAN 52 INCHES IN WIDTH, THE CLEAR WIDTHS IN THE TURN SHALL COMPLY WITH SECTION 403.5.3.1. WHERE AN ACCESSIBLE ROUTE MAKES A 180-DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN 52 INCHES IN WIDTH, THE CLEAR WIDTHS APPROACHING THE TURN, DURING THE TURN AND LEAVING THE TURN, SHALL BE ONE OF THE FOLLOWING SETS OF DIMENSIONS:
   1. APPROACHING WIDTH IS 36 INCHES MINIMUM, DURING WIDTH IS 60 INCHES MINIMUM, AND LEAVING WIDTH IS 36 INCHES MINIMUM.
   2. APPROACHING WIDTH IS 42 INCHES MINIMUM, DURING WIDTH IS 48 INCHES MINIMUM, AND LEAVING WIDTH IS 42 INCHES MINIMUM.
   3. APPROACHING WIDTH IS 43 INCHES MINIMUM, DURING WIDTH IS 43 INCHES MINIMUM, AND LEAVING WIDTH IS 43 INCHES MINIMUM.
8. WHERE AN ACCESSIBLE ROUTE MAKES A 90-DEGREE TURN THE CLEAR WIDTHS APPROACHING THE TURN AND LEAVING THE TURN SHALL BE ONE OF THE FOLLOWING SETS OF DIMENSIONS:
   1. BOTH LEGS OF THE TURN SHALL BE 40 INCHES MINIMUM IN WIDTH. THE WIDTH OF EACH LEG OF THE TURN SHALL BE MAINTAINED FOR 28 INCHES MINIMUM FROM THE INNER CORNER.
   2. WHERE THE INTERIOR CORNERS OF THE TURN ARE CHAMFERED FOR 8 INCHES MINIMUM ALONG BOTH WALLS, BOTH LEGS OF THE TURN SHALL BE 36 INCHES MINIMUM IN WIDTH.
   3. WHERE ONE LEG OF THE TURN IS 42 INCHES MINIMUM IN WIDTH, THE OTHER SHALL BE PERMITTED TO BE 38 INCHES MINIMUM IN WIDTH.
   4. WHERE ONE LEG OF THE TURN IS 44 INCHES MINIMUM IN WIDTH, THE OTHER SHALL BE PERMITTED TO BE 36 INCHES MINIMUM IN WIDTH.
9. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN. WHERE THE CLEAR WIDTH AT THE TURN IS 60 INCHES MINIMUM COMPLIANCE WITH SECTION 403.5.1 SHALL NOT BE REQUIRED.
10. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED TURNING SPACE COMPLYING WITH SECTION 304.3.2.1, PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 52 INCHES MINIMUM BEYOND THE INTERSECTION.
11. WHERE ACCESSIBLE ROUTES PASS THROUGH PARKING FACILITIES, THEY SHALL BE PHYSICALLY SEPARATED FROM VEHICULAR TRAFFIC.

WALKING SURFACES

N.T.S. | 403 | 17.09.22 | **1**

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765 TENANT IMPROVEMENTS VANCOUVER RELO

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DO
CHECKED BY:	AS

MODEL

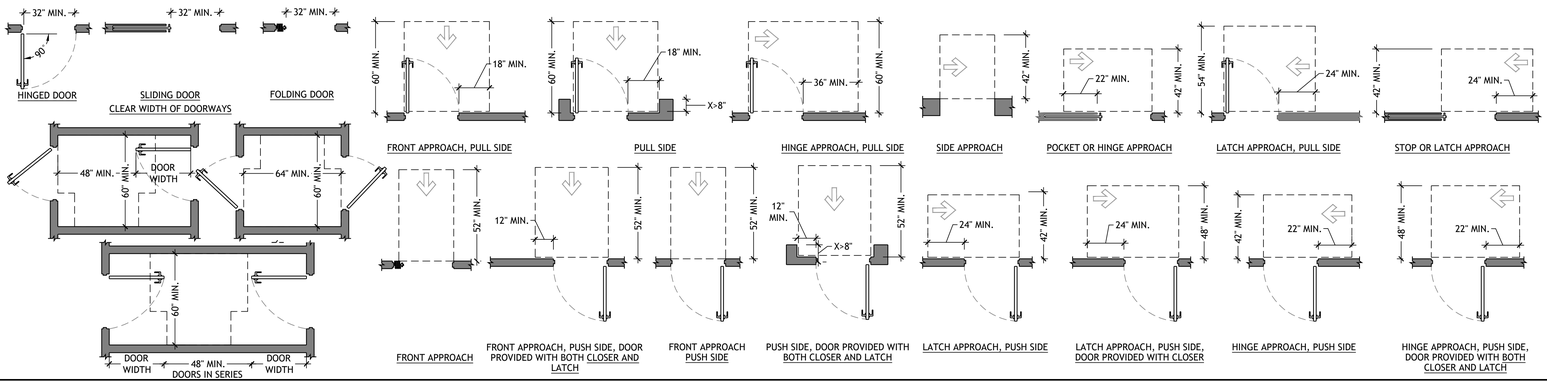
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SHEET TITLE

ACCESSIBILITY SHEET

SHEET NUMBER

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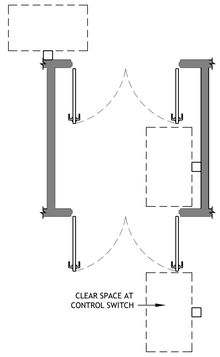


DOOR NOTES:

1. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH SECTIONS 402.3 AND 402.4.
2. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY.
3. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. IN ALTERATIONS, A PROJECTION OF 5/8 INCH MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
4. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.
5. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE OF A DOORWAY, PROJECTS MORE THAN 8 INCHES BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.
6. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL NOT SLOPE STEEPER THAN 1:48.
7. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH MAXIMUM AND BEVELED PER 303.
8. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE. THE SPACE BETWEEN THE DOORS SHALL PROVIDE A TURNING SPACE.
9. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
10. OPERABLE PARTS OF HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
11. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
12. THE FORCE FOR PUSHING OR PULLING OPEN AN INTERIOR DOOR OR GATE SHALL BE 5 POUNDS MAXIMUM.
13. THE FORCE FOR PUSHING OR PULLING OPEN REQUIRED FIRE DOORS SHALL BE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
14. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE.
15. THE INSTALLATION OF KICK PLATES ON EXISTING DOORS AND GATES WITHOUT A SMOOTH SURFACE WITHIN 10 INCHES OF THE FLOOR SHALL BE PERMITTED. THE KICK PLATES SHALL EXTEND TO 10 INCHES ABOVE THE FLOOR AND NO MORE THAN 1 INCH FROM THE SIDES AND BOTTOM OF THE DOOR. CAVITIES CREATED BY SUCH KICKPLATES SHALL BE CAPPED.
16. DOORS, GATES AND SIDELITES ADJACENT TO DOORS OR GATES CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL ON EITHER THE DOOR, GATE OR AN ADJACENT SIDELITE 43 INCHES MAXIMUM ABOVE THE FLOOR.VISION LITES WITH THE LOWEST PART MORE THAN 66 INCHES ABOVE THE FLOOR SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

DOORS

N.T.S. 404 12.09.25 — 4

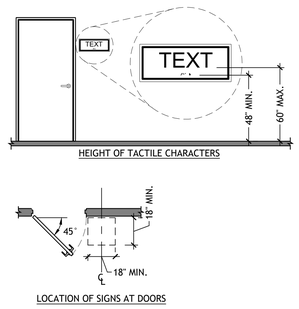


LOW ENERGY POWER OPERATED DOORS AND GATES:

1. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH SECTION 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10. LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19.
2. WHERE AN ENTRANCE INCLUDES A VESTIBULE, AT LEAST ONE EXTERIOR DOOR OR GATE AND ONE INTERIOR DOOR OR GATE IN THE VESTIBULE SHALL HAVE THE SAME TYPE OF AUTOMATIC DOOR OR GATE OPENER.
3. DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR OPENING WIDTH FOR AUTOMATIC DOOR SYSTEMS SHALL BE BASED ON THE CLEAR OPENING WIDTH PROVIDED WITH ALL LEAFS IN THE OPEN POSITION.
4. MANEUVERING CLEARANCES COMPLYING WITH SECTION 404.2.3 SHALL BE PROVIDED ON THE EGRESS SIDE OF LOW-ENERGY AUTOMATIC AND FULL POWER AUTOMATIC DOORS AND GATES THAT SERVE AS PART OF AN ACCESSIBLE MEANS OF EGRESS. LOW-ENERGY AUTOMATIC AND FULL POWER AUTOMATIC DOORS AND GATES THAT HAVE STANDBY POWER OR BATTERY BACK-UP SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION. LOW-ENERGY AUTOMATIC AND FULL POWER AUTOMATIC DOORS AND GATES THAT REMAIN OPEN IN THE POWER-OFF CONDITION SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
5. DOORS OR GATES IN SERIES SHALL COMPLY WITH SECTION 404.2.5.
6. WHERE BOTH DOORS OR GATES IN A SERIES ARE LOW ENERGY AUTOMATIC OR FULL POWER AUTOMATIC DOORS OR GATES, THE TWO DOORS OR GATES IN A SERIES SHALL NOT BE REQUIRED TO PROVIDE A TURNING SPACE BETWEEN THE DOORS OR GATES.
7. MANUALLY OPERATED CONTROLS SHALL COMPLY WITH SECTION 309. THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROLS SHALL BE LOCATED BEYOND THE ARC OF THE DOOR OR GATE SWINGS.
8. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS SHALL COMPLY WITH SECTION 404.2.6.

LOW ENERGY POWER OPERATED DOORS

N.T.S. 404 12.09.25 — 19



HEIGHT OF TACTILE CHARACTERS

LOCATION OF SIGNS AT DOORS

SIGN TEXT:

1. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
2. RAISED CHARACTERS SHALL BE DUPLICATED IN BRAILLE.
3. RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND, UPPERCASE AND SANS SERIF FONT.
4. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
5. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

SIGN BRAILLE:

1. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 703.4.
2. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.4.3. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
3. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH (MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS

SIGN INSTALLATION:

1. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
2. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

VISUAL CHARACTERS:

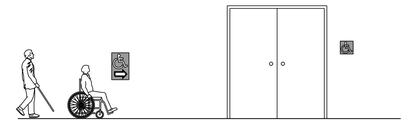
1. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

PICTOGRAMS:

1. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
2. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.

SIGNS

N.T.S. 703 12.09.25 — 7



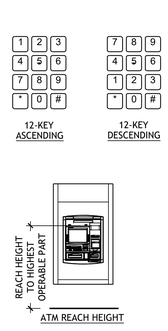
DIRECTIONAL SIGN — ISA SIGN

ENTRY & DIRECTIONAL SIGN NOTES:

1. IN EXISTING BUILDINGS AND FACILITIES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE, ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. ALL INTERIOR AND EXTERIOR SIGNS DEPICTING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE WHITE ON A BLUE BACKGROUND.
3. DIRECTIONAL SIGNS THAT INDICATE THE LOCATION OF THE NEAREST ACCESSIBLE ENTRANCE SHALL BE PROVIDED AT NON-ACCESSIBLE ENTRANCES.

ENTRY AND DIRECTIONAL SIGNS

N.T.S. 1101.2.6, 703.6 12.09.25 — 3



ATM REACH HEIGHT

STORAGE:

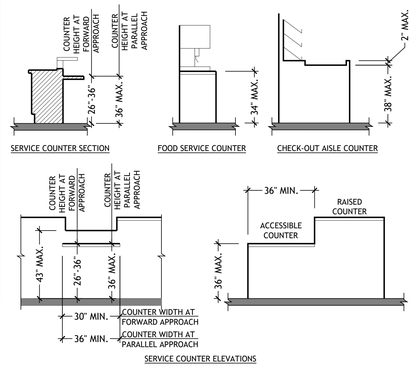
1. WHERE BINS ARE PROVIDED FOR ENVELOPES, WASTE PAPER, OR OTHER PURPOSES, AT LEAST ONE OF EACH TYPE SHALL BE ACCESSIBLE.
2. A CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED.
3. STORAGE ELEMENTS SHALL COMPLY WITH AT LEAST ONE OF THE REQUIRED ACCESSIBLE REACH RANGES.
4. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS

ATM REQUIREMENTS:

1. A CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED.
2. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS.
3. OPERABLE PARTS SHALL BE WITHIN AN ACCESSIBLE REACH RANGE.
4. AUTOMATIC TELLER MACHINES SHALL PROVIDE THE OPPORTUNITY FOR THE SAME DEGREE OF PRIVACY OF INPUT AND OUTPUT AVAILABLE TO ALL INDIVIDUALS.
5. MACHINES SHALL BE SPEECH ENABLED. OPERATING INSTRUCTIONS AND ORIENTATION, VISIBLE TRANSACTION PROMPTS, USER INPUT VERIFICATION, ERROR MESSAGES, AND ALL DISPLAYED INFORMATION FOR FULL USE SHALL BE ACCESSIBLE TO AND INDEPENDENTLY USABLE BY INDIVIDUALS WITH VISION IMPAIRMENTS. SPEECH SHALL BE DELIVERED THROUGH A MECHANISM THAT IS READILY AVAILABLE TO ALL USERS, INCLUDING BUT NOT LIMITED TO, AN INDUSTRY STANDARD CONNECTOR OR A TELEPHONE HANDSET. SPEECH SHALL BE RECORDED OR DIGITIZED HUMAN, OR SYNTHESIZED.
6. SPEECH SHALL BE CAPABLE OF BEING REPEATED OR INTERRUPTED. VOLUME CONTROL SHALL BE PROVIDED FOR THE SPEECH FUNCTION.
7. WHERE RECEIPTS ARE PROVIDED, SPEECH OUTPUT DEVICES SHALL PROVIDE AUDIBLE BALANCE INQUIRY INFORMATION, ERROR MESSAGES, AND ALL OTHER INFORMATION ON THE PRINTED RECEIPT NECESSARY TO COMPLETE OR VERIFY THE TRANSACTION.
8. AT LEAST ONE TACTILELY DISCERNIBLE INPUT CONTROL SHALL BE PROVIDED FOR EACH FUNCTION. WHERE PROVIDED, KEY SURFACES NOT ON ACTIVE AREAS OF DISPLAY SCREENS, SHALL BE RAISED ABOVE SURROUNDING SURFACES. WHERE MEMBRANE KEYS ARE THE ONLY METHOD OF INPUT, EACH SHALL BE TACTILELY DISCERNIBLE FROM SURROUNDING SURFACES AND ADJACENT KEYS.
9. NUMERIC KEYS SHALL BE ARRANGED IN A 12-KEY ASCENDING OR DESCENDING TELEPHONE KEYPAD LAYOUT. THE NUMBER FIVE KEY SHALL HAVE A SINGLE RAISED DOT.
10. FUNCTION KEYS SHALL CONTRAST VISUALLY FROM BACKGROUND SURFACES. CHARACTERS AND SYMBOLS ON KEY SURFACES SHALL CONTRAST VISUALLY FROM KEY SURFACES. VISUAL CONTRAST SHALL BE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.
11. FUNCTION KEY SURFACES SHALL HAVE TACTILE SYMBOLS AS FOLLOWS: ENTER OR PROCEED KEY: RAISED CIRCLE; CLEAR OR CORRECT KEY: RAISED LEFT ARROW; CANCEL KEY: RAISED LETTER EX; ADD VALUE KEY: RAISED PLUS SIGN; DECREASE VALUE KEY: RAISED MINUS SIGN.
12. THE DISPLAY SCREEN SHALL BE VISIBLE FROM A POINT LOCATED 40 INCHES ABOVE THE CENTER OF THE CLEAR FLOOR SPACE IN FRONT OF THE MACHINE.
13. CHARACTERS DISPLAYED ON THE SCREEN SHALL BE IN A SANS SERIF FONT. CHARACTERS SHALL BE 3/16 INCH HIGH MINIMUM BASED ON THE UPPERCASE LETTER "I". CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
14. BRAILLE INSTRUCTIONS FOR INITIATING THE SPEECH MODE SHALL BE PROVIDED.

ATMS

N.T.S. 707 12.09.25 — 10



CHECKOUT AISLE COUNTERS:

1. WHERE CHECK-OUT AISLES ARE PROVIDED, ACCESSIBLE CHECK-OUT AISLES SHALL BE PROVIDED IN ACCORDANCE WITH THE IBC. WHERE CHECK-OUT AISLES SERVE DIFFERENT FUNCTIONS, ACCESSIBLE CHECK-OUT AISLES SHALL BE PROVIDED IN ACCORDANCE WITH THE IBC FOR EACH FUNCTION. WHERE CHECK-OUT AISLES ARE DISPERSED THROUGHOUT THE BUILDING OR FACILITY, ACCESSIBLE CHECK-OUT AISLES SHALL BE DISPERSED.
2. CHECKOUT COUNTER SURFACE HEIGHT SHALL BE 38 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE TOP OF THE COUNTER EDGE PROTECTION SHALL BE 2 INCHES MAXIMUM ABOVE THE TOP OF THE COUNTER SURFACE ON THE AISLE SIDE OF THE CHECK-OUT COUNTER.

SALES AND SERVICE COUNTERS:

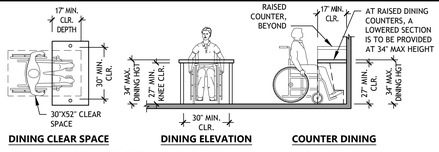
1. WHERE PROVIDED, AT LEAST ONE OF EACH TYPE OF SALES COUNTER AND SERVICE COUNTER SHALL BE ACCESSIBLE. WHERE COUNTERS ARE DISPERSED THROUGHOUT THE BUILDING OR FACILITY, ACCESSIBLE COUNTERS ALSO SHALL BE DISPERSED.
2. THE ACCESSIBLE PORTION OF THE COUNTER TOP SHALL EXTEND THE SAME DEPTH AS THE SALES OR SERVICE COUNTER TOP.
3. A PORTION OF THE COUNTER SURFACE THAT IS 36 INCHES LONG MINIMUM AND 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR SHALL BE PROVIDED. A CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE 36 INCH MINIMUM LENGTH OF COUNTER.
4. WHERE THE PROVIDED COUNTER SURFACE IS LESS THAN 36 INCHES LONG, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR.
5. WHERE COUNTERS OR TELLER WINDOWS HAVE SECURITY GLAZING TO SEPARATE PERSONNEL FROM THE PUBLIC, A METHOD TO FACILITATE VOICE COMMUNICATION SHALL BE PROVIDED
6. AT SERVICE WINDOWS OR SERVICE COUNTERS, ANY VERTICAL BARRIER BETWEEN SERVICE PERSONNEL AND CUSTOMERS SHALL BE AT A HEIGHT OF 43 INCHES MAXIMUM ABOVE THE FLOOR.
7. TRANSPARENT SECURITY GLAZING SHALL BE PERMITTED ABOVE THE 43 INCHES MAXIMUM HEIGHT.

FOOD SERVICE LINES:

1. WHERE SELF-SERVICE SHELVES ARE PROVIDED, AT LEAST 50 PERCENT, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED SHALL COMPLY WITH REQUIRED REACH RANGES.
2. THE TOPS OF TRAY SLIDES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

COUNTERS

N.T.S. 904 12.09.25 — 2



DINING CLEAR SPACE — DINING ELEVATION — COUNTER DINING

DINING TABLE REQUIREMENTS:

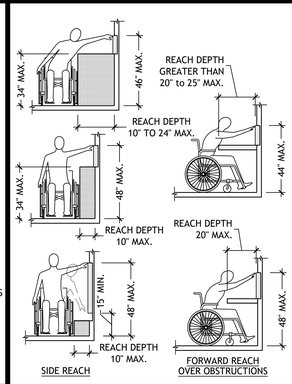
1. WHERE DINING SURFACES FOR THE CONSUMPTION OF FOOD OR DRINK ARE PROVIDED, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF THE DINING SURFACES FOR THE SEATING AND STANDING SPACES SHALL BE ACCESSIBLE.
2. DINING SURFACES REQUIRED TO BE PROVIDED AS ACCESSIBLE SHALL BE DISPERSED THROUGHOUT THE FACILITY AND LOCATED ON A LEVEL ACCESSED BY AN ACCESSIBLE ROUTE.

DINING TABLES:

1. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED.
2. KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL BE PROVIDED.
3. THE TOPS OF DINING SURFACES AND WORK SURFACES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
4. WHERE FOOD OR DRINK IS SERVED FOR CONSUMPTION AT A COUNTER EXCEEDING 34 INCHES IN HEIGHT, A PORTION OF THE MAIN COUNTER SHALL BE PROVIDED AS ACCESSIBLE.
5. AT DRINK SURFACES 12 INCHES OR LESS IN DEPTH, KNEE AND TOE CLEARANCE SHALL NOT BE REQUIRED TO EXTEND BENEATH THE SURFACE BEYOND THE DEPTH OF THE DRINK SURFACE PROVIDED.
6. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE EXPOSED PORTIONS OF DINING SURFACES AND WORK SURFACES.

DINING TABLE

N.T.S. 1109.11, 902 — 17



FORWARD REACH:

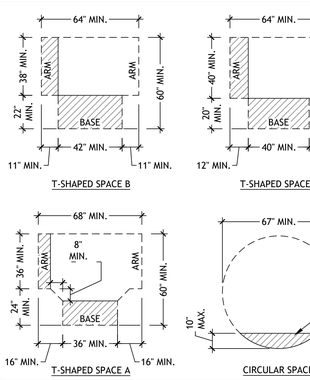
1. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

SIDE REACH:

1. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAXIMUM.
3. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.
4. OPERABLE PARTS ON FUEL DISPENSERS INSTALLED ON EXISTING CURBS SHALL BE PERMITTED AT 54 INCHES MAXIMUM ABOVE THE FLOOR.

REACH RANGES

N.T.S. 308 12.09.25 — 9

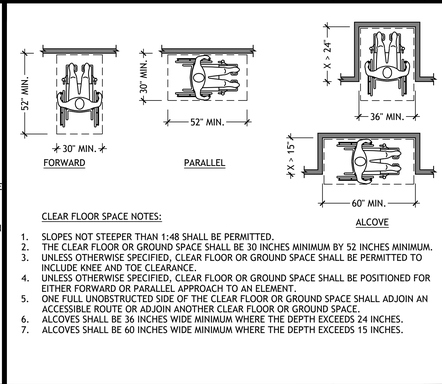


TURNING SPACE NOTES:

1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
2. IN NEW BUILDINGS AND FACILITIES, THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH 67 INCH MINIMUM DIAMETER.
3. THE TURNING SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE. THE DEPTH OF THE OVERLAP SHALL NOT BE MORE THAN 10 INCHES, AND THE DEPTH SHALL NOT EXCEED THE DEPTH OF THE KNEE AND TOE CLEARANCES PROVIDED, AND THE OVERLAP SHALL BE PERMITTED ONLY WITHIN THE TURNING CIRCLE AREA SHOWN SHADED.
4. IN NEW BUILDINGS AND FACILITIES, THE TURNING SPACE SHALL BE A T-SHAPED SPACE COMPLYING WITH ONE OF THE FOLLOWING:
   a) A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 68 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS AND ONE BASE THAT ARE ALL 36 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 16 INCHES MINIMUM FROM EACH SIDE OF THE BASE LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 24 INCHES MINIMUM FROM THE ARMS. AT THE INTERSECTION OF EACH ARM AND THE BASE, THE INTERIOR CORNERS SHALL BE CHAMFERED FOR 8 INCHES MINIMUM ALONG BOTH THE ARM AND ALONG THE BASE.
   b) A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 64 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS 38 INCHES MINIMUM IN WIDTH AND A BASE 42 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 11 INCHES MINIMUM FROM EACH SIDE OF THE BASE, LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 22 INCHES MINIMUM FROM EACH ARM.
   c) A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, 64 INCHES WIDE AND 60 INCHES DEEP, WITH TWO ARMS AND ONE BASE 40 INCHES MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 12 INCHES MINIMUM FROM EACH SIDE OF THE BASE AND THE BASE SHALL EXTEND 20 INCHES MINIMUM FROM EACH ARM.
5. TURNING SPACES SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE OF EITHER THE BASE OR ONE ARM.
6. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES UNLESS OTHERWISE SPECIFIED.

TURNING SPACE

N.T.S. 304 12.09.25 — 5



CLEAR FLOOR SPACE NOTES:

1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
2. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 52 INCHES MINIMUM.
3. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE.
4. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.
5. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.
6. ALCOVES SHALL BE 36 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.
7. ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

CLEAR FLOOR SPACE

N.T.S. 305 12.09.25 — 1

PREPARED FOR:

CHASE

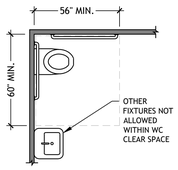
CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

1209 MAIN ST.
VANCOUVER, WA 98660

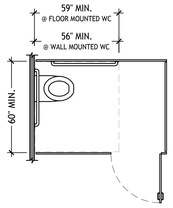
ARCHITECT/ ENGINEER OF RECORD

PM DESIGN Architectural Solutions Group

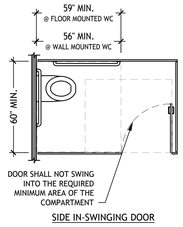
211 GATEWAY



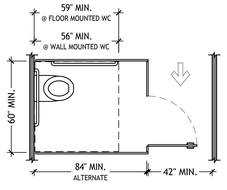
SIZE OF CLEARANCE AT WATER CLOSETS IN SINGLE USER RESTROOM



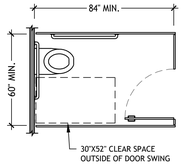
SIDE OUT-SWINGING DOOR



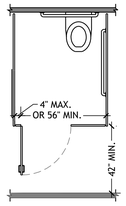
SIDE IN-SWINGING DOOR



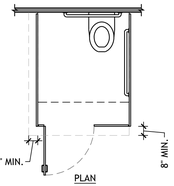
END OUT-SWINGING DOOR



ALTERNATE IN-SWINGING DOOR

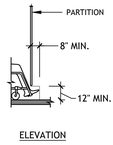


TOILET COMPARTMENT DOORS DOOR OPENING LOCATION - FRONT



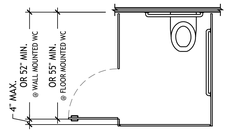
PLAN

TOE CLEARANCE



ELEVATION

TOE CLEARANCE



TOILET COMPARTMENT DOORS DOOR OPENING LOCATION - SIDE

SINGLE USER SIZE:

1. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

TOILET COMPARTMENT SIZE:

1. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.
2. WHERE AN ALTERNATE WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT IS PROVIDED, THE MINIMUM AREA OF THE COMPARTMENT SHALL BE 60 INCHES MINIMUM IN WIDTH, MEASURED PERPENDICULAR TO THE SIDE WALL, AND 84 INCHES MINIMUM IN DEPTH, MEASURED PERPENDICULAR TO THE REAR WALL.

TOILET COMPARTMENT DOORS:

1. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM.
2. COMPARTMENT DOORS SHALL BE INSTALLED IN THE CORNER FARTHEST FROM THE WATER CLOSET.
   IF THE COMPARTMENT DOOR IS LOCATED ON THE FRONT WALL OR PARTITION, THE DOOR SHALL BE INSTALLED EITHER:
   - 56 INCHES MINIMUM FROM THE SIDE WALL OR PARTITION CLOSEST TO THE WATER CLOSET, OR -
   - 4 INCHES MIXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET

   IF THE COMPARTMENT DOOR IS LOCATED ON THE SIDE WALL OR PARTITION WITH A WALL-HUNG WATER CLOSET, THE DOOR SHALL BE INSTALLED EITHER:
   - 52 INCHES MINIMUM FROM THE REAR WALL
   - 4 INCHES MAXIMUM FROM THE FRONT WALL OR PARTITION

   IF THE COMPARTMENT DOOR IS LOCATED ON THE SIDE WALL OR PARTITION WITH A FLOOR MOUNTED WATER CLOSET, THE DOOR SHALL BE INSTALLED EITHER:
   - 55 INCHES MINIMUM FROM THE REAR WALL
   - 4 INCHES MAXIMUM FROM THE FRONT WALL OR PARTITION
3. THE DOOR SHALL BE SELF-CLOSING.
4. A DOOR PULL COMPLYING WITH SECTION 404.2.6 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
5. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.

TOE CLEARANCE:

1. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES MINIMUM ABOVE THE FINISH FLOOR AND 8 INCHES DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS.
2. TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 64 INCHES IN DEPTH WITH A WALL-HUNG WATER CLOSET, OR GREATER THAN 67 INCHES IN DEPTH WITH A FLOOR-MOUNTED WATER CLOSET.
3. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 68 INCHES WIDE.

AMBULATORY ACCESSIBLE COMPARTMENTS:

1. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A DEPTH OF 60 INCHES MINIMUM AND A WIDTH OF 35 INCHES MINIMUM TO 37 INCHES MAXIMUM.
2. AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 404, EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH SECTION 404.2.6 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

OVERLAP:

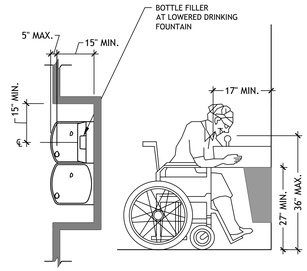
1. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

WATER CLOSET:

1. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT.
2. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. SEATS SHALL BE 2 INCHES HIGH MAXIMUM.
3. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTIONS 309.2 AND 309.4 AND SHALL BE INSTALLED 36 INCHES MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
4. IN AMBULATORY ACCESSIBLE TOILET COMPARTMENTS COMPLYING WITH SECTION 604.10, FLUSH CONTROLS SHALL BE PERMITTED TO BE LOCATED ON EITHER SIDE OF THE WATER CLOSET.

TOILET ROOMS & COMPARTMENTS

N.T.S. 603, 604 — 11



DRINKING FOUNTAIN PLAN

DRINKING FOUNTAIN ELEVATION

DRINKING FOUNTAIN NOTES:

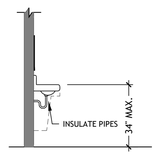
1. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. WHEN PROVIDED, ONE LOWERED DRINKING FOUNTAIN AND ONE DRINKING FOUNTAIN FOR STANDING PERSONS SHALL BE PROVIDED.
2. WHERE A SINGLE DRINKING FOUNTAIN FOR STANDING AND SEATING PERSONS IS PROVIDED, IT SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.
3. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT.
4. KNEE AND TOE CLEARANCE SHALL BE PROVIDED.
5. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS.
6. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
7. THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.
8. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.
9. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

BOTTLE FILLING STATION NOTES:

1. WHERE BOTTLE FILLING STATIONS ARE PART OF THE DRINKING FOUNTAIN FOR PERSONS WHO ARE STANDING, THE BOTTLE FILLING STATION IS NOT REQUIRED TO COMPLY WITH THIS SECTION PROVIDED A BOTTLE FILLING STATION IS LOCATED AT THE DRINKING FOUNTAIN FOR PERSONS USING WHEELCHAIRS.
2. A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD OR SIDE APPROACH SHALL BE PROVIDED.
3. CONTROLS FOR BOTTLE FILLING STATIONS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED CONTROLS SHALL COMPLY WITH SECTION 309.

DRINKING FOUNTAINS

N.T.S. 1109.5, 602 — 4



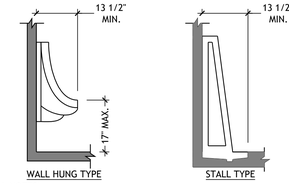
LAVATORY ELEVATION

LAVATORY NOTES:

1. A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED.
2. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
3. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
4. CONTROLS FOR FAUCETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
5. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

LAVATORIES

N.T.S. 606 — 7



WALL HUNG TYPE

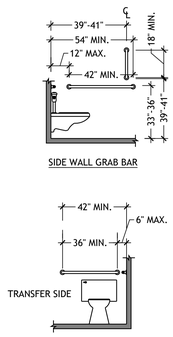
STALL TYPE

URINAL NOTES:

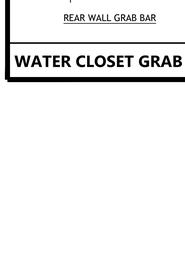
1. URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. URINALS SHALL BE 13-1/2 INCHES MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.
3. A CLEAR FLOOR OR GROUND SPACE POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED.
4. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS.

URINALS

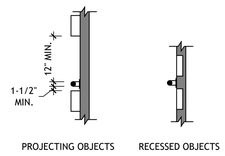
N.T.S. 605 — 3



SIDE WALL GRAB BAR



REAR WALL GRAB BAR



PROJECTING OBJECTS

RECESSED OBJECTS

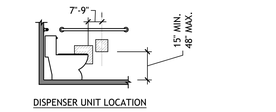
SPACING OF GRAB BARS

GRAB BAR NOTES:

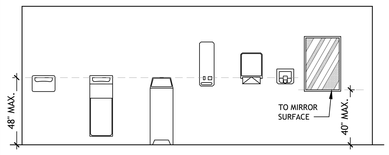
1. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.
2. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.
3. A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED 39 INCHES MINIMUM AND 41 INCHES MAXIMUM ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED 39 INCHES MINIMUM AND 41 INCHES MAXIMUM FROM THE REAR WALL.
4. THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM BE LOCATED 6" MAXIMUM FROM THE SIDE WALL AND EXTEND 42" MINIMUM FROM THE SIDE WALL.
5. THE REAR GRAB BAR SHALL BE PERMITTED TO BE 24 INCHES LONG MINIMUM, CENTERED ON THE WATER CLOSET, WHERE WALL SPACE DOES NOT PERMIT A LENGTH OF 36 INCHES MINIMUM DUE TO THE LOCATION OF A RECESSED FIXTURE ADJACENT TO THE WATER CLOSET.
6. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.
7. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.
8. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.
9. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
10. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
11. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.
12. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

WATER CLOSET GRAB BARS

N.T.S. 604, 609 — 10



DISPENSER UNIT LOCATION



TOILET ROOM ACCESSORIES

CLEAR SPACE:

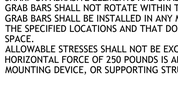
1. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.
2. WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A 30 INCH X 48 INCH CLEAR FLOOR SPACE IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE

TOILET ROOM ACCESSORIES:

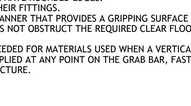
1. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. COAT HOOKS SHALL BE LOCATED WITHIN 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
3. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
4. WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
5. TOILET PAPER DISPENSERS SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 18 INCHES MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

TOILET ROOM ACCESSORIES

N.T.S. 603, 604 — 2



BABY CHANGING STATION IN CLOSED POSITION



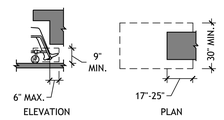
BABY CHANGING STATION IN OPEN POSITION

BABY CHANGING STATION NOTES:

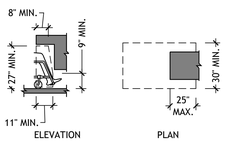
1. BABY DIAPER CHANGING STATIONS WHEN DEPLOYED SHALL NOT OBSTRUCT THE REQUIRED WIDTH OF AN ACCESSIBLE ROUTE.
2. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308.
3. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.
4. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL BE PROVIDED.
5. THE TOPS OF BABY CHANGING STATIONS SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

BABY CHANGING STATIONS

N.T.S. 603.5 — 9



TOE CLEARANCE



KNEE CLEARANCE

TOE CLEARANCE:

1. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE.
2. TOE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.
3. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM BENEATH THE ELEMENT.
4. SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.
5. TOE CLEARANCE SHALL BE 30 INCHES WIDE MINIMUM.

KNEE CLEARANCE:

1. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE.
2. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND.
3. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.
4. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.
5. KNEE CLEARANCE SHALL BE 30 INCHES WIDE MINIMUM.

TOE & KNEE CLEARANCE

N.T.S. 306 — 1

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765 TENANT IMPROVEMENTS VANCOUVER RELO

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ROY PEDRO ARCHITECT

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PROJECT INFORMATION BLOCK

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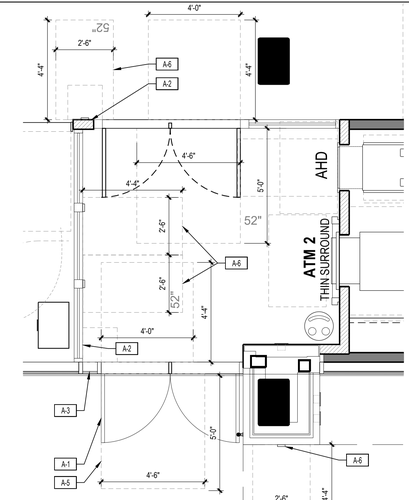
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SHEET TITLE

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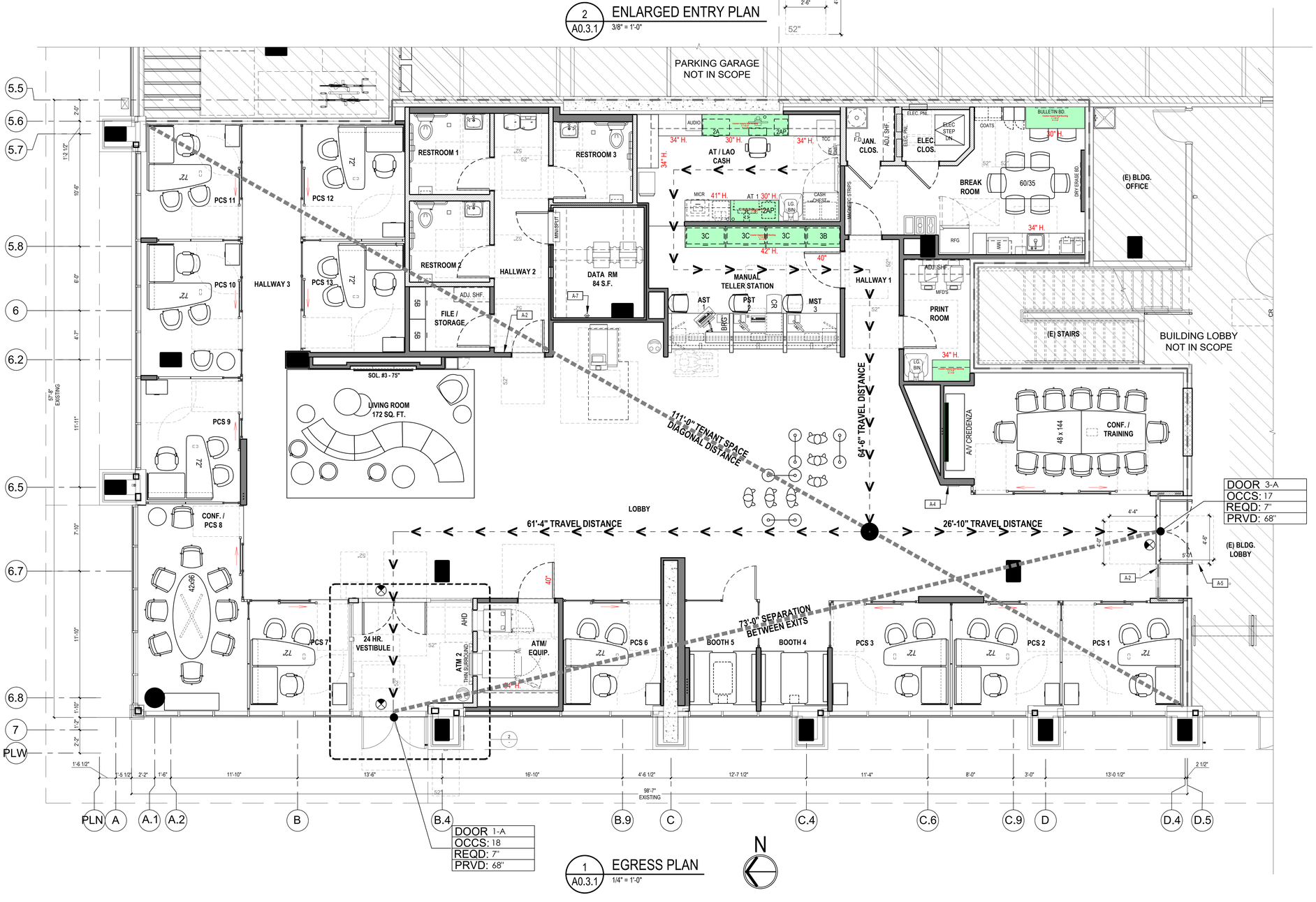
SHEET NUMBER

A0.2.3



2 A0.3.1 ENLARGED ENTRY PLAN

3/8" = 1'-0"



1 A0.3.1 EGRESS PLAN

1/4" = 1'-0"

N

EGRESS PLAN KEYNOTES

A-1	MAIN ENTRANCE
A-2	TACTILE EXIT SIGN PER DETAIL 7, SHEET A0.2.2
A-3	ENTRY ADA SIGN PER DETAIL 3, SHEET A0.2.2
A-4	FIRE EXTINGUISHER FOR EVERY 75 FEET TRAVEL DISTANCE AND MIN. SIZE OF 2-A:10-BC IN ACCORDANCE WITH IFC 906.3. HANDLE AT 48"AFF. LOCATION SUBJECT TO LOCAL AHJ APPROVAL.
A-5	CONC. LANDING AT DOOR MIN. 4'-6"X5'-0". MAX. 2% MAX. SLOPE EACH WAY.
A-6	CLEAR SPACE AT PUSH BUTTON 30" X 52", MAX. 2% MAX. SLOPE EACH WAY.
A-7	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" AFF

CODE DATA: (2021 WSBC)

USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)

BUILDING: MIXED USE

TENANT SPACE: B-BUSINESS (SECTION 304.1)

TYPE OF CONSTRUCTION (SECTION 602)

PODIUM STYLE CONSTRUCTION (IBC 510.2)

I-A, SPRINKLERED

BUILDING HEIGHT & AREA (CHAPTER 5)

ALLOWABLE BUILDING. HEIGHT (IBC 510.2): EXISTING SHELL BUILDING PERMITTED UNDER CMI-342110

ACTUAL BUILDING HEIGHT: (E) 84', 7 STORIES

ALLOWABLE BUILDING AREA (TABLE 506.2 & SECTION 506)

ALLOWABLE SQUARE FOOTAGE: EXISTING SHELL BUILDING PERMITTED UNDER CMI-342110

CHASE TENANT SPACE AREA: (E) 5,233 SF

OCCUPANT LOAD (TABLE 1004.5):

5,233/150 (OFFICES/BOH) = 35 OCCUPANTS

INTERIOR FINISHES (CHAPTER 8 AND TABLE 803.13):

EXIT PASSAGEWAYS - CLASS B

CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS - CLASS C

ROOMS AND ENCLOSED SPACES - CLASS C

INTERIOR FLOOR FINISHES - CLASS II

MINIMUM EGRESS SIZING (SECTION 1005.3, SECTION 1006.2.1 AND SECTION 1006.3.2(2) TRAVEL DISTANCE FOR ONE EXIT):

DOORWAYS: .2" * 35 OCC. = 7" REQUIRED (32" MIN. PER 1010.1.1)

PROVIDED: 68" + 68" = 136"

NUMBER OF EXITS (SECTION 1006 AND TABLE 1006.2.1):

REQUIRED - 1 EXIT (OL<49)

PROVIDED - 2 EXIT

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) 300'-0" MAXIMUM

ACTUAL: 64'-10"

PLUMBING FIXTURES (PER WSBC CHAPTER 29 AND WSPC CHAPTER 4):

5,233/150 (GROUP B - OFFICE) = 35 OCCUPANTS (18 MEN & 18 WOMEN)
OCCUPANTS PER WSBC CHAPTER 29 TABLE 2902.1:

FIXTURES REQUIRED:
(2) WATER CLOSET, (2) LAVATORY

FIXTURES PROVIDED:
(3) WATER CLOSET, (3) LAVATORY

LEGEND

- INTERNALLY ILLUMINATED EXIT SIGN
- FIRE EXTINGUISHER CABINET. (MIN. SIZE 2-A:10-BC IFC/906)
- 50'-0" TD — EGRESS PATH
- 18" X 18" CLEAR SPACE AT TACTILE SIGN, SEE 7/A0.2.2

PREPARED FOR:

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CHASE OVP # 48200R025765 TENANT IMPROVEMENTS VANCOUVER RELO

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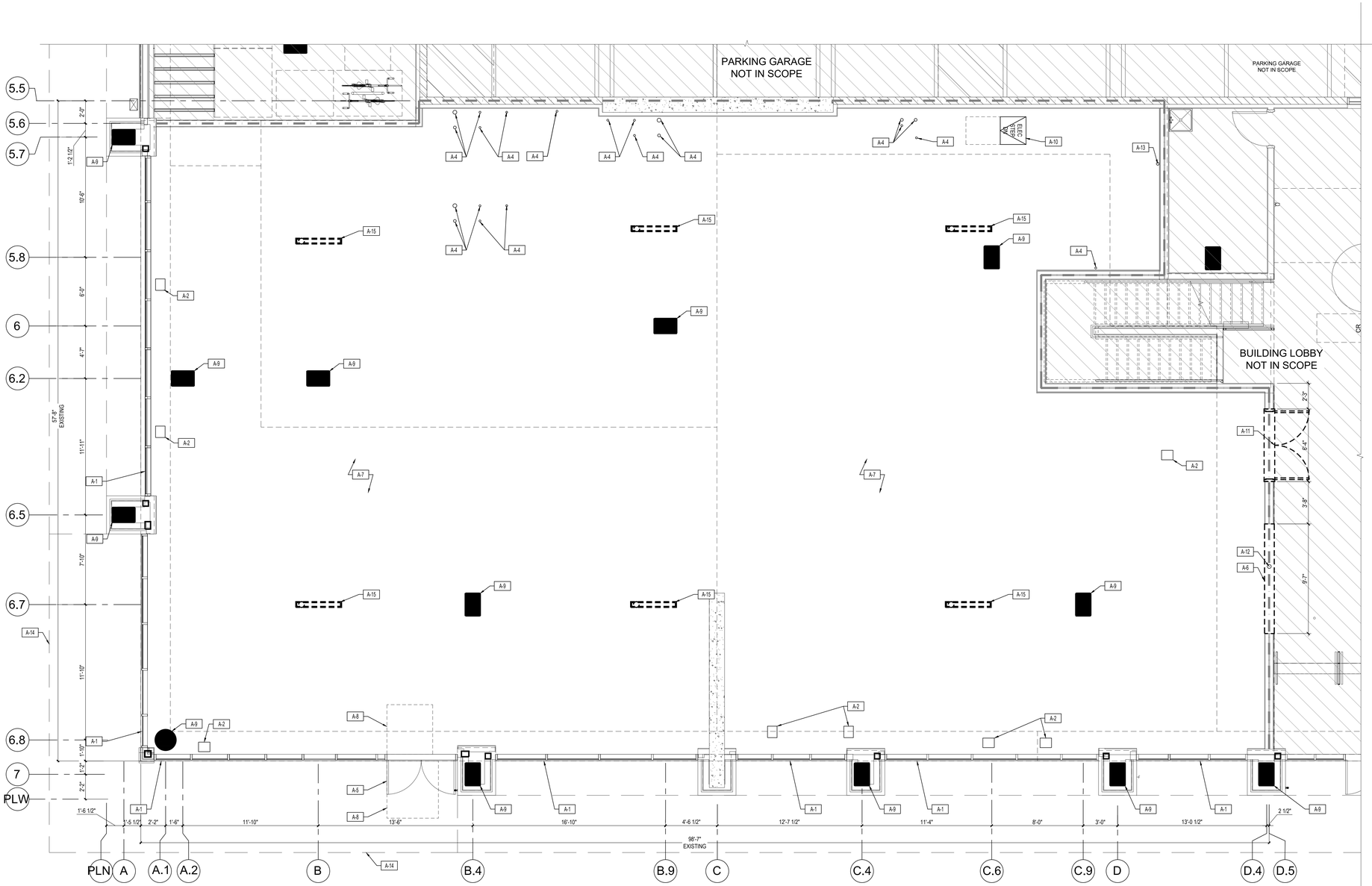
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SHEET TITLE

EGRESS PLAN & PROJECT DATA INFORMATION

SHEET NUMBER

A0.3.1



1 A0.4 EXISTING SHELL PLAN

1/4" = 1'-0"

N

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

EXISTING PLAN KEYNOTES

A-1	(E) STOREFRONT SYSTEM
A-2	(E) PENETRATION FOR NEW POWER/DATA FLOOR BOX. SEE ELECTRICAL DRWGS.
A-3	CONDUIT PENETRATION THRU SLAB PER ELECTRICAL DRAWINGS
A-4	PENETRATION THRU SLAB PER PLUMBING DRAWINGS. COORDINATE WITH (E) PENETRATIONS AS NEEDED.
A-5	(E) STOREFRONT DOOR
A-6	REMOVE PORTION OF (E) WALL
A-7	(E) CONCRETE SLAB TO REMAIN. LEVEL SLAB AS NEEDED TO ACCOMMODATE NEW FINISH. PROVIDE SKIMCOAT TO PATCH AND REPAIR AREAS AFFECTED BY DEMO.
A-8	LEVEL CONCRETE LANDINGS. G.C. TO VERIFY EXISTING CONDITIONS MEET ACCESSIBILITY REQUIREMENTS.
A-9	(E) COLUMN
A-10	(E) STEP DOWN TRANSFORMER BY LANDLORD AND UNDER SEPARATE PERMIT. SEE ELECTRICAL DRAWINGS
A-11	REMOVED (E) HOLLOW METAL DOOR. INFILL WALL CONSTRUCTION TO MATCH AND ALIGN WITH EXISTING ADJACENT WALL AND FINISHES, TYP.
A-12	(E) ROOF DRAIN TO BE REROUTED. REFER TO PLUMBING DRAWINGS.
A-13	(E) SLEEVE FOR POWER. REFER TO ELECTRICAL DRAWINGS.
A-14	(E) CANOPY
A-15	(E) CEILING LIGHT FIXTURES TO BE REMOVED.

EXISTING PLAN GENERAL NOTES

1. GC TO FIELD VERIFY ALL DIMENSIONS AND PLUMBING FIXTURE/ELECTRICAL DEVICE CUT SHEETS PRIOR TO FINAL INSTALLATION AND DISCREPANCIES SHALL BE IDENTIFIED TO THE ARCHITECT
2. GC SHALL VERIFY EXISTING SLOPES OF DELIVERED SLAB AND NOTIFY ARCHITECT AND PM OF ANY DISCREPANCIES.
3. ARCHITECTURAL CONCRETE IS TO BE WELL VIBRATED, CLEAR OF ANY HONEYCOMBS AND TO HAVE A SMOOTH EVEN TEXTURED FINISH OR AS NOTED ON DRAWINGS. FOR TRENCH INFILL AT SAW CUTTING SEE STRUCTURAL DRAWINGS.
4. ALL INTERIOR DIMENSIONS ARE FINISHED SURFACE TO FINISHED SURFACE. U.N.O.
5. SEE A1.1 FOR PROPOSED FLOOR PLAN LAYOUT AND DIMENSIONS.
6. GC SHALL PROVIDE 15 MIL. VAPOR BARRIER AT ALL INFILL SLAB.

EXISTING PLAN LEGEND

- E — FLOOR RECEPTACLE SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ○ — PLUMBING AND ELECTRICAL PENETRATION THRU SLAB SEE PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- AREA NOT IS SCOPE
- NEW OR (E) WALL
- (E) DEMISING WALL FRAMING UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD., INSULATION AND FIRE CAULKING TO PROVIDE 1 HOUR RATED WALL CONSTRUCTION. ADD SECURITY MESH ON INTERIOR SIDE. SEE WALL TYPES.
- (E) CMU WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.
- (E) CONCRETE WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.

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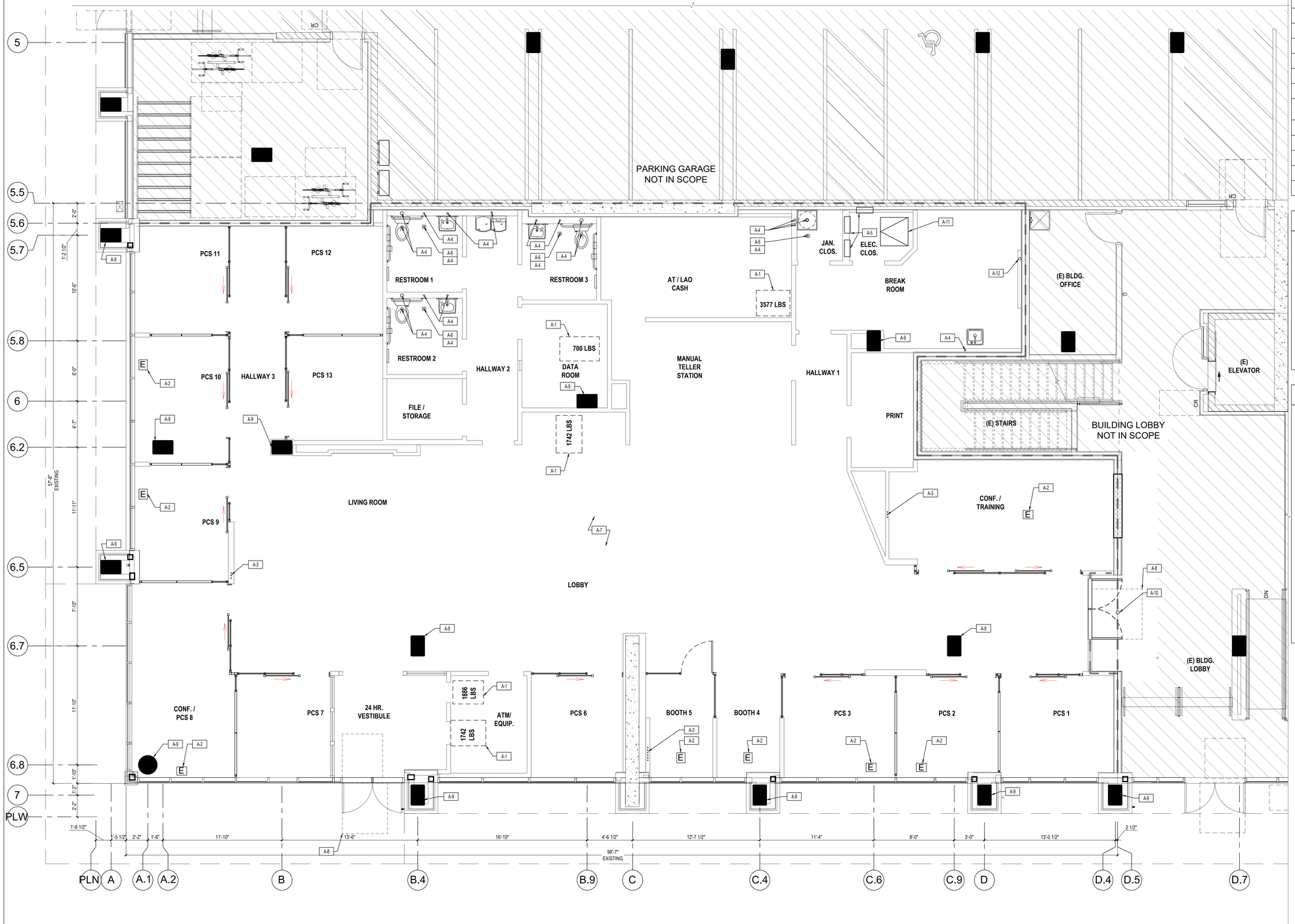
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SHEET TITLE

EXISTING SHELL PLAN

SHEET NUMBER

A0.4



1 A1.0 SLAB PLAN
1/4" = 1'-0"

N

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

SLAB PLAN KEYNOTES

A-1	OUTLINE OF BANK EQUIPMENT, SEE SCHEDULE & STRUCTURAL DRAWINGS
A-2	(E) PENETRATION FOR NEW POWER/DATA FLOOR BOX. SEE ELECTRICAL DRWGS.
A-3	CONDUIT PENETRATION THRU SLAB PER ELECTRICAL DRAWINGS
A-4	PENETRATION THRU SLAB PER PLUMBING DRAWINGS. COORDINATE WITH (E) PENETRATIONS AS NEEDED.
A-5	RECESSED ELECTRICAL PANELS.
A-6	FLOOR DRAIN. SEE PLUMBING DRAWINGS. COORDINATE WITH (E) PENETRATIONS AS NEEDED.
A-7	(E) CONCRETE SLAB TO REMAIN. LEVEL SLAB AS NEEDED TO ACCOMMODATE NEW FINISH. PROVIDE SKIMCOAT TO PATCH AND REPAIR AREAS AFFECTED BY DEMO.
A-8	LEVEL CONCRETE LANDINGS. G.C. TO VERIFY EXISTING CONDITIONS MEET ACCESSIBILITY REQUIREMENTS.
A-9	(E) COLUMN
A-10	RE-ROUTE THE (E) ROOF DRAIN TO THE CLOSEST WALL TO ACCOMMODATE NEW STOREFRONT DOORS. SEE PLUMBING DRAWINGS.
A-11	(E) TRANSFORMER BY LANDLORD. SEE ELECTRICAL DRAWINGS.
A-12	(E) ELECTRICAL CONDUIT CONNECTION TO MAIN SWITCH BOARD BY LANDLORD. SEE ELECTRICAL DRAWINGS.

SLAB PLAN GENERAL NOTES

1. GC TO FIELD VERIFY ALL DIMENSIONS AND PLUMBING FIXTURE/ELECTRICAL DEVICE CUT SHEETS PRIOR TO FINAL INSTALLATION AND DISCREPANCIES SHALL BE IDENTIFIED TO THE ARCHITECT
2. GC SHALL VERIFY EXISTING SLOPES OF DELIVERED SLAB AND NOTIFY ARCHITECT AND PM OF ANY DISCREPANCIES.
3. ARCHITECTURAL CONCRETE IS TO BE WELL VIBRATED, CLEAR OF ANY HONEYCOMBS AND TO HAVE A SMOOTH EVEN TEXTURED FINISH OR AS NOTED ON DRAWINGS. FOR TRENCH INFILL AT SAW CUTTING SEE STRUCTURAL DRAWINGS.
4. ALL INTERIOR DIMENSIONS ARE FINISHED SURFACE TO FINISHED SURFACE. U.N.O.
5. SEE A1.1 FOR PROPOSED FLOOR PLAN LAYOUT AND DIMENSIONS.
6. GC SHALL PROVIDE 15 MIL. VAPOR BARRIER AT ALL INFILL SLAB.

SLAB PLAN LEGEND

- E — FLOOR RECEPTACLE SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- ○ — PLUMBING AND ELECTRICAL PENETRATION THRU SLAB SEE PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- AREA NOT IS SCOPE
- NEW OR (E) WALL
- 1-HOUR FIRE RATED DEMISING WALL. CONTRACTOR TO BRING DEMISING WALL UP TO ALL SEPARATION OCCUPANCY CODES PER IBC TABLE 508.4. CONTRACTOR TO INSTALL SECURITY MESH ON INTERIOR SIDE. SEE WALL TYPES.
- (E) DEMISING WALL FRAMING UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD., INSULATION AND FIRE CAULKING TO PROVIDE 1 HOUR RATED WALL CONSTRUCTION. ADD SECURITY MESH ON INTERIOR SIDE. SEE WALL TYPES.
- (E) CMU WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.
- (E) CONCRETE WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.

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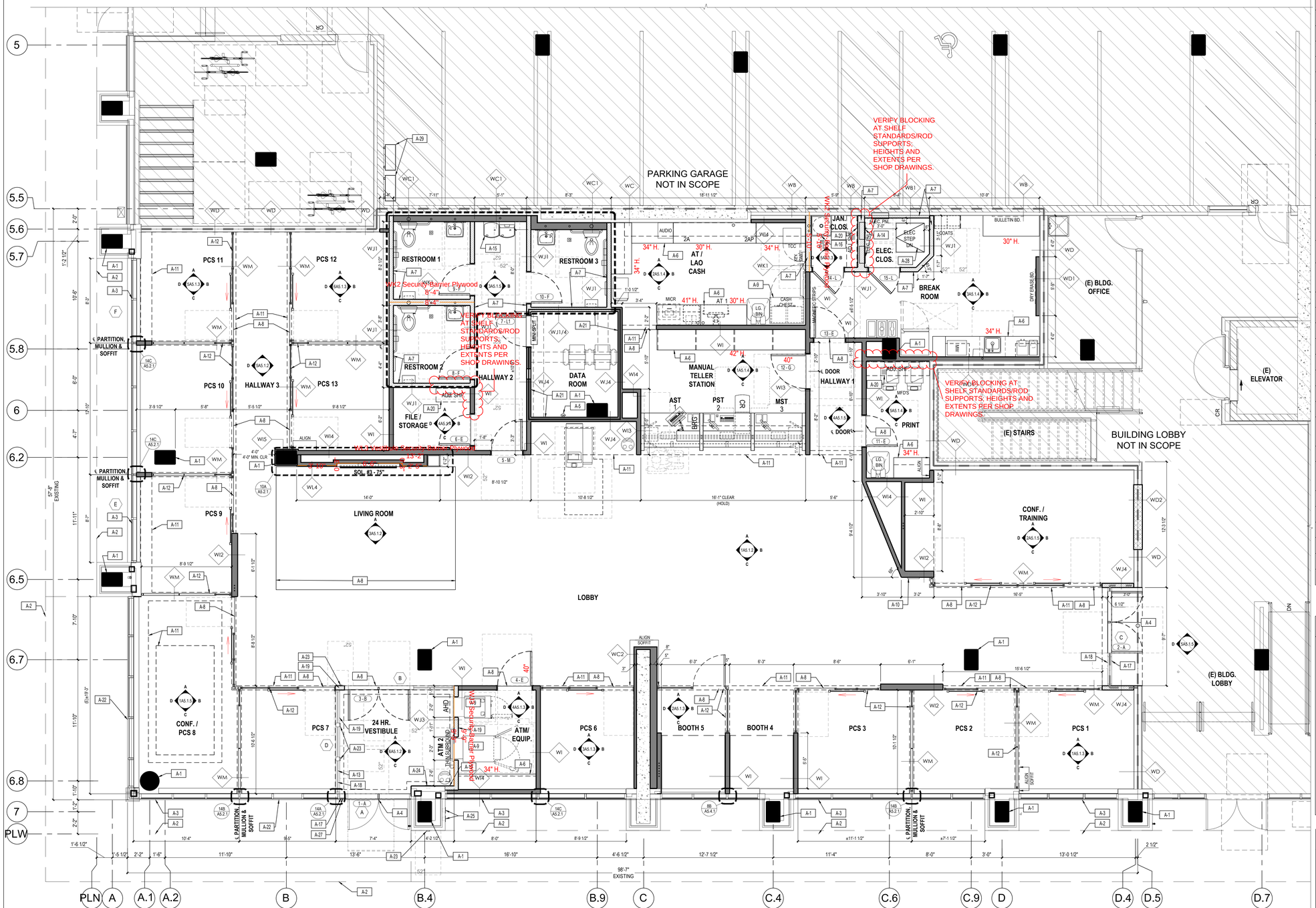
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SHEET TITLE

SLAB PLAN

SHEET NUMBER

A1.0



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

N

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

FLOOR PLAN KEYNOTES

A-1	(E) STRUCTURAL COLUMN. SEE STRUCTURAL DRAWINGS. PROVIDE FINISH COAT AS NEEDED TO HAVE A SMOOTH FINISH.
A-2	(E) OVERHANG STRUCTURE/METAL AWNING, SEE EXTERIOR ELEVATIONS.
A-3	(E) STOREFRONT GLAZING SYSTEM.
A-4	STOREFRONT ENTRY DOOR SYSTEM.
A-5	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" AFF
A-6	CUSTOM SHOP-FABRICATED BUILT-IN MILLWORK BY G.C.: REFER TO INTERIOR ELEVATIONS- SUBMIT SHOP DRAWINGS AND FINISH SAMPLES TO ARCHITECT FOR APPROVAL
A-7	FULL HEIGHT WALLS, EXTEND WALLS TO ROOF ABOVE. FULL HEIGHT GYP. BD. W/INSULATION AT RESTROOMS.
A-8	FLOOR MATERIAL TRANSITION: REFER TO DETAILS 2 & 4/A1.2 AND SHEET A3.3.1
A-9	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. REFER TO DETAIL 10/A0.2.2
A-10	FIRE EXTINGUISHER AND CABINET. PROVIDE THE MINIMUM NUMBER AS REQUIRED AND COORDINATE LOCATIONS WITH CODE REQUIREMENTS AND ADJACENT ACCESSIBILITY CLEARANCES. CABINET SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPEN. FIRE EXTINGUISHER HANDLE AT MAX. HEIGHT 48" AFF. LOCATION SUBJECT TO LOCAL AHJ APPROVAL.
A-11	SOFFIT/ BULKHEAD ABOVE: REFER TO REFLECTED CEILING PLAN, INTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS.
A-12	DEMOUNTABLE PARTITION SYSTEM WITH INTEGRAL DOORS AND POWER, DATA AND SECURITY CONDUIT SYSTEMS, ANCHORED TO BUILDING WALLS, SUBFLOOR, AND BULKHEADS. COORDINATE WITH VENDOR. SEE DETAILS 12 & 13/A5.3.1.
A-13	STOREFRONT GLAZING SYSTEM, SEE WINDOW TYPES.
A-14	RECESSED MOUNTED ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS.
A-15	HI-LOW DRINKING FOUNTAIN, SEE DETAIL 4/A0.2.3, INTERIOR ELEVATIONS AND PLUMBING DWGS.
A-16	MOP SINK & WATER HEATER ABOVE. 7'-A.F.F. CLEAR HEIGHT MIN. SEE INTERIOR ELEVATIONS AND PLUMBING DRAWINGS.
A-17	6x6 INTERNATIONAL ADA SYMBOL MOUNTED AT ENTRY DOORS. COORDINATE W/ SIGNAGE VENDOR. SEE DETAIL 3/A0.2.2.
A-18	TACTILE EXIT SIGN. PROVIDE 18X18 CLR FLOOR SPACE CENTERED ON THE SIGN. COORDINATE LOCATION WITH SIGN VENDOR. SEE DETAIL 7/A0.2.2.
A-19	VESTIBULE WALLS SHALL EXTEND TO ROOF STRUCTURE SECURE ABOVE CEILING WITH 3/4" PLYWOOD.
A-20	ADJUSTABLE SHELVES. PROVIDE BLOCKING.
A-21	PROVIDE 4'X8'X3/4" FIRE RETARDANT PLYWOOD OVER GYPSUM BOARD IN DATA ROOM. SEE EXACT LOCATION ON ELECTRICAL PLANS AND TC DRAWINGS. DO NOT PAINT OVER MFR. LABEL. FOR INTERIOR ELEVATIONS SEE ELECTRICAL DRAWINGS & TC-SERIES DRAWINGS.
A-22	SIGNAGE BY SIGN VENDOR. SEPARATE PERMIT. SEE ELEC. DWGS.
A-23	AUTOMATIC DOOR OPERATOR BUTTON AND / OR KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT. PROVIDE 30X52 CLEAR FLOOR SPACE WITH 2% MAX SLOPE IN EACH DIRECTION CENTERED AT GROUND.
A-24	ATM KEY BOX. RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE SLUSH WITH ADJACENT WALL FINISH. SEE DETAIL 16/A5.2.2
A-25	ACCESS KEY BOX. RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE FLUSH WITH ADJACENT WALL FINISH. SEE DETAIL 16/A5.2.2
A-26	RELIEF VENT. SEE DETAIL 1/A5.2.1 AND MECHANICAL DRAWINGS.
A-27	"NO SMOKING WITHIN 25 FEET OF BUILDING ENTRANCE" SIGN - CHASE STANDARD 10"X10" PLAQUE WITH ROUNDED EDGES.
A-28	(E) STEP DOWN TRANSFORMER BY LANDLORD AND UNDER SEPARATE PERMIT. SEE ELECTRICAL DRAWINGS
A-29	MECHANICAL CONDENSER MOUNTED ON WALL W/ UNISTRUT. PROVIDE 6'-8" MIN CLR. TO AFF. SEE MECHANICAL AND ELECTRICAL DRAWINGS

GENERAL NOTES

1. ALL INTERIOR DIMENSIONS ARE FINISH SURFACE TO FINISH SURFACE OR CENTER LINE OF COLUMNS, UNLESS OTHERWISE NOTED.
2. ALL WALLS TO RECEIVE A LEVEL 4 FINISH U.N.O.
3. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AS A COMPLETE SET.
4. PROVIDE BLOCKING AND BACKING AS DEFINED IN SPECIFICATIONS AT 2'-0" AFF AND 8'-0" AFF IN (E) WALLS AND NEW PARTITIONS, FOR ALL CASEWORK AND ACCESSORIES. COORDINATE WITH FIXTURE SHOP DRAWINGS.
5. PROVIDE WATER RESISTANT GYP. BD. AT ALL WET LOCATIONS.
6. ALL DOORS TO BE LOCATED 4" FROM PERPENDICULAR WALL U.N.O.
7. FIRE EXTINGUISHER CABINET SHALL BE RECESSED WITHIN 6" WALL.
8. WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN IBC TABLE 803.11
9. FOR ELECTRICAL RECEPTACLE MOUNTING HEIGHTS TO COMPLY WITH IBC SECTION 1109.13; DETAIL 9/A0.2.2; AND ELECTRICAL DRWGS.

FLOOR PLAN LEGEND

- INTERIOR NON-BEARING PARTITIONS, EXTEND STUDS 6" ABOVE CEILING. SEE STRUCTURAL FOR CONNECTIONS.
- INTERIOR NON-BEARING PARTITION FULL HEIGHT WALL TO UNDERSIDE OF SLAB LEVEL 2. SEE STRUCTURAL FOR CONNECTIONS.
- DATA ROOM WALL 1 HOUR FIRE RATED
- AREA NOT IS SCOPE
- (E) DEMISING WALL FRAMING UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD., INSULATION AND FIRE CAULKING TO PROVIDE 1 HOUR RATED WALL CONSTRUCTION. ADD SECURITY MESH ON INTERIOR SIDE. SEE WALL TYPES.
- (E) CMU WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.
- (E) CONCRETE WALL CONSTRUCTION UNDER SEPARATE PERMIT/SHELL BUILDING. PROVIDE GYP. BD. PATCH ANY MISSING INSULATIONS AS NEEDED.

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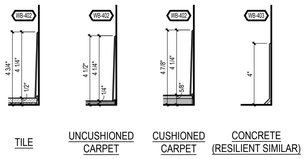
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SHEET TITLE

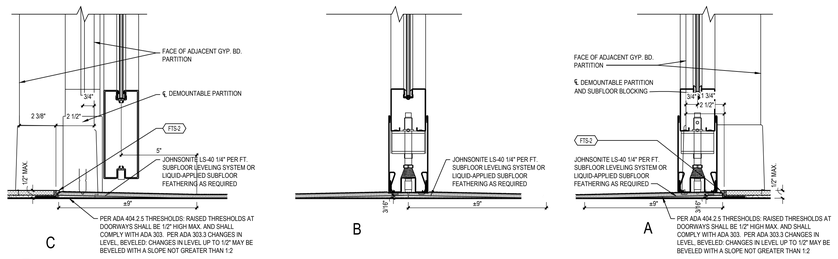
FLOOR PLAN

SHEET NUMBER

A1.1



3 / A1.2 TYP. WALL BASE
3" = 1'-0"



4 / A1.2 DEMOUNTABLE WALL BASE TYPES
3" = 1'-0"

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

LEGEND

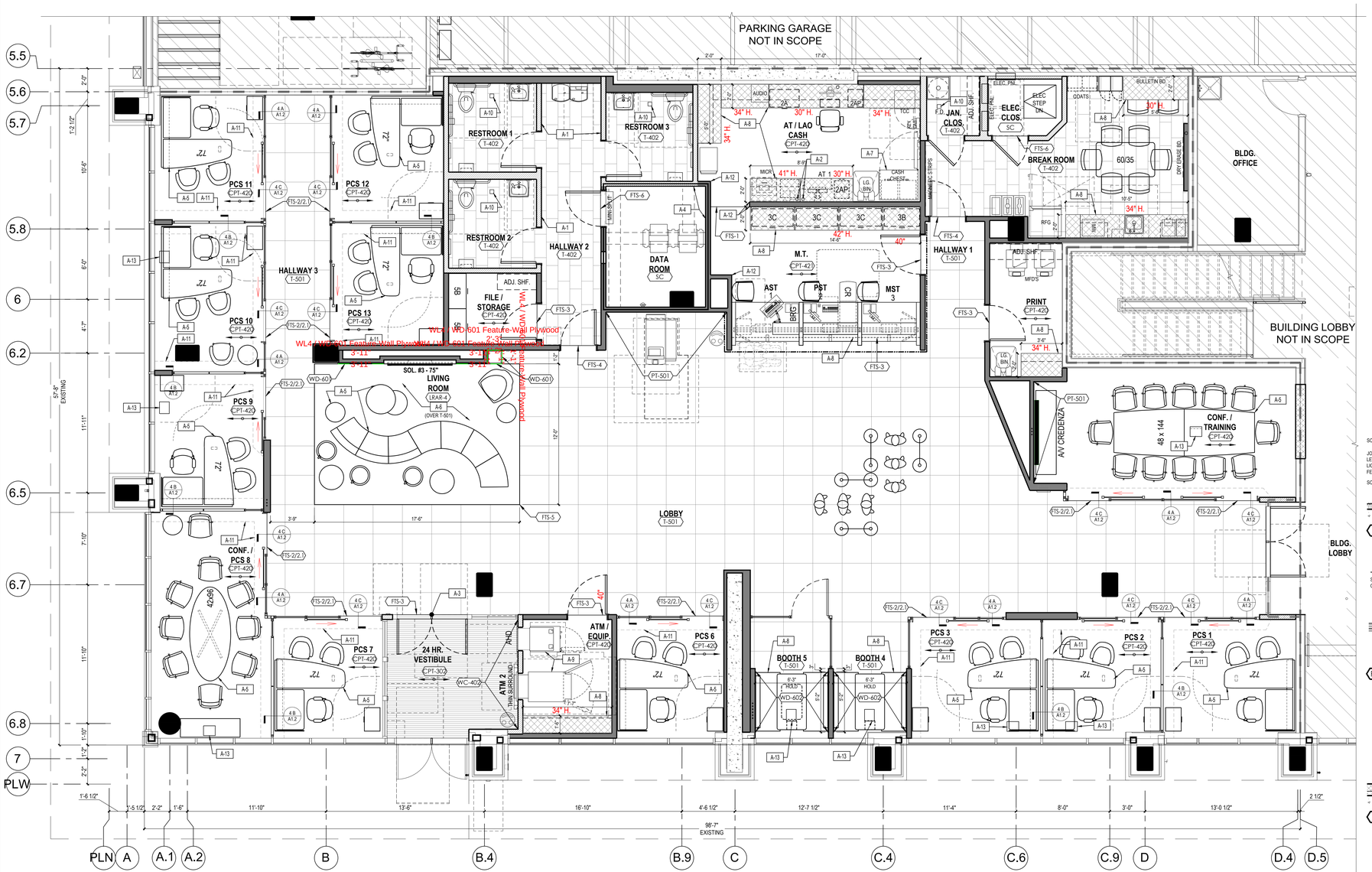
- MILLWORK BY G.C. - SEE INTERIOR ELEVATIONS AND DETAILS ON SHEET A5.3.1
- LOCATION OF BR FIBERGLASS AT TELLER AREA
- AREA NOT IN SCOPE
- DIRECTION OF FLOORING

FINISH PLAN KEYNOTES

A-1	ROOM IDENTIFICATION SIGNAGE BY VENDOR. SEE ADA SHEET A0.2.2, CHAPTER 7.
A-2	3" DIA. GROMMET. COORD. EXACT LOCATIONS W/ BRANCH MANAGERS
A-3	START POINT FOR FLOOR TILE.
A-4	4'X8'X3/4" FIRE RETARDANT PLYWOOD OVER GYPSUM BOARD IN DATA ROOM - FOR EXACT LOCATION SEE ELECTRICAL PLANS AND TC PLANS . DO NOT PAINT OVER MFR LABEL.
A-5	ALL FURNITURE AND BANK EQUIPMENT FURNISHED AND INSTALLED BY CHASE VENDORS. REFER TO MATRIX ON COVER SHEET AND FINISH PLAN FOR MILLWORK BY GC
A-6	ATTACH RUG SECURELY WITH DOUBLE STICK TAPE AND FTS-5.
A-7	CASH CHEST TO BE ANCHORED TO SLAB - SEE STRUCTURAL DRAWINGS.
A-8	FLOOR FINISH SHALL CONTINUE UNDER COUNTER AND EQUIPMENT.
A-9	eATMs TO BE ANCHORED TO THE FLOOR SLAB - SEE STRUCTURAL DRAWINGS.
A-10	FLOOR DRAIN. SLOPE FLOOR TO DRAIN 2% MAX. ALL DIRECTIONS.
A-11	FLOOR TRANSITIONS AND CARPET MUST BE INSTALLED PRIOR TO DEMOUNTABLE PARTITION (PRIVACY WALL) INSTALLATION. THE PARTITIONS ARE INTENDED TO REST ON CARPET.
A-12	5'-0" HIGH STAINLESS STEEL CORNER GUARD.
A-13	FLUSH MOUNTED POWER/DATA FLOOR BOX IN EXISTING PENETRATION-SEE ELECTRICAL DRAWINGS.

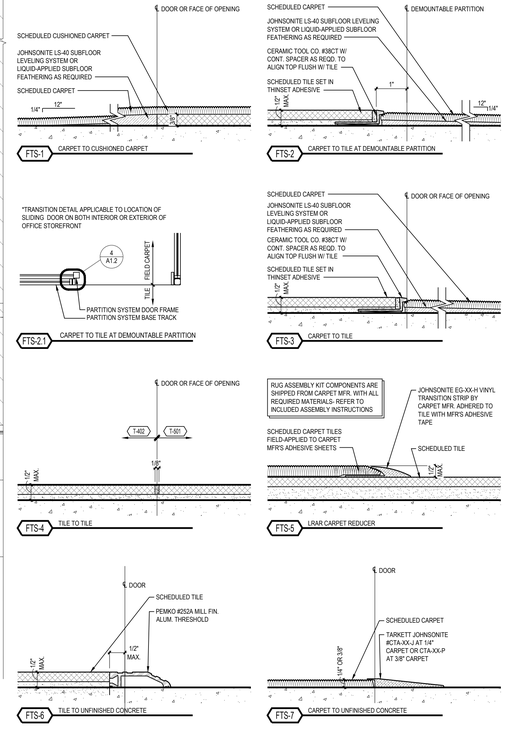
GENERAL NOTES

1. ALL WALLS INCLUDING EXISTING TO RECEIVE PT-500 AND WALL BASE PER SCHEDULE UNLESS NOTED OTHERWISE.
2. ALL WALLS TO RECEIVE A LEVEL 4 FINISH U.N.O.
3. PROTECT ALL TILE AND GROUT WITH WATER BASED ANTI-PENETRATING SEALER.
4. THE EXPOSED WHIP OF BLINDS SHOULD NOT BE VISIBLE TO PUBLIC VIEW.
5. PROVIDE WATER RESISTANT GYP. BD. AT ALL WET LOCATIONS.
6. WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN IBC TABLE 803.13.
7. SEE SHEET A3.3.1 FOR FINISH SCHEDULE.
8. FLOORING TRANSITIONS AND CARPET MUST BE INSTALLED PRIOR TO DEMOUNTABLE PARTITION (PRIVACY WALL) INSTALLATION. THE PARTITIONS ARE INTENDED TO REST ON CARPET.



1 / A1.2 FINISH PLAN
1/4" = 1'-0"

N



2 / A1.2 FLOOR TRANSITION TYPES
6" = 1'-0"

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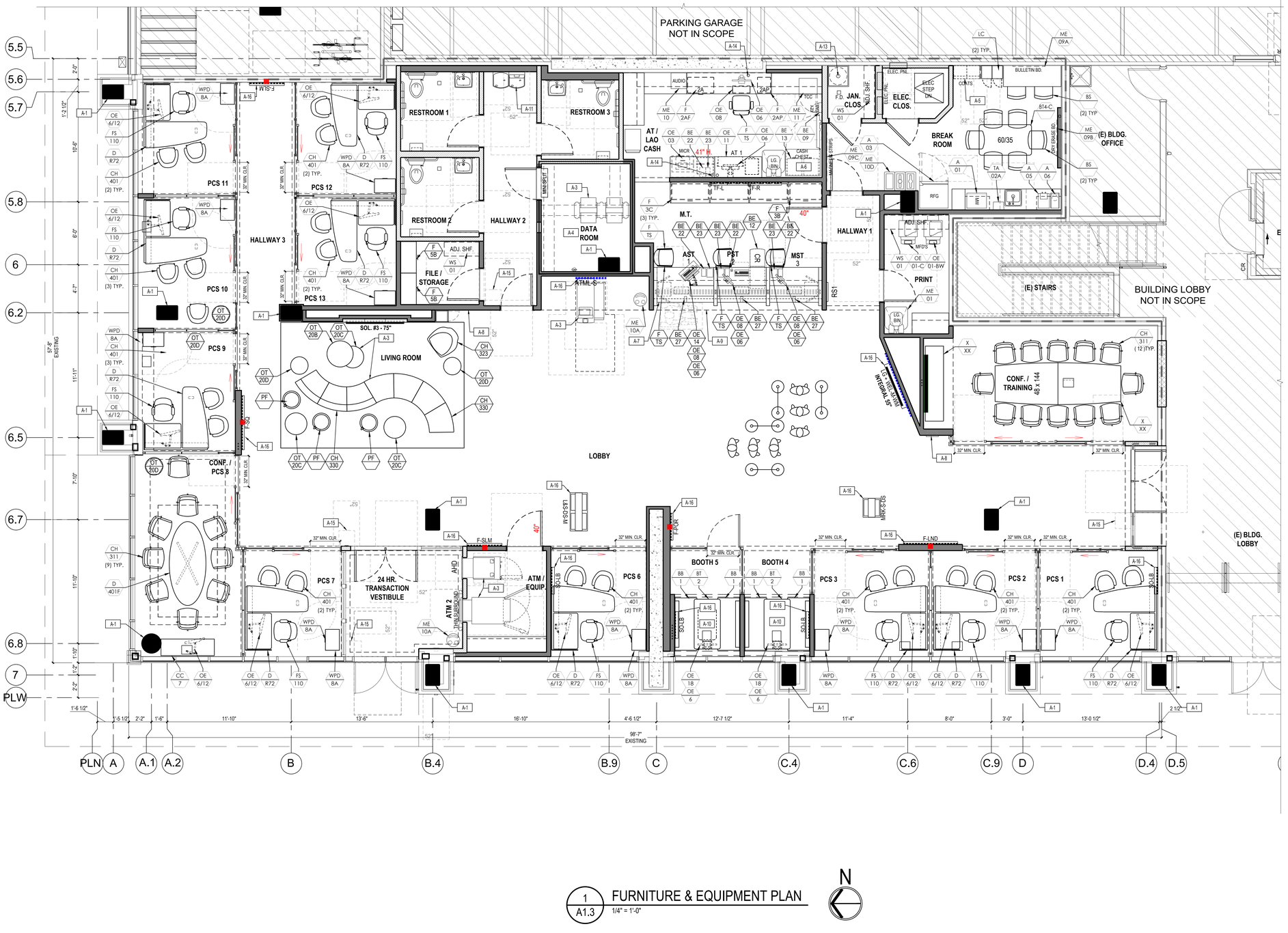
DRAWING STANDARDS v20.7

SHEET TITLE

FINISH PLAN

SHEET NUMBER

A1.2



1 A1.3 FURNITURE & EQUIPMENT PLAN
1/4" = 1'-0"

N

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

FURNITURE & EQUIPMENT KEYNOTES

A-1	(E) STRUCTURAL COLUMN SEE STRUCTURAL DRAWINGS.
A-2	RESTROOM ACCESSORIES AND FIXTURES, SEE ADA SHEET A0.2.3 AND PLUMBING DRAWINGS.
A-3	ALL FURNITURE AND BANK EQUIPMENT FURNISHED AND INSTALLED BY CHASE VENDORS. REFER TO MATRIX ON COVER SHEET AND FINISH PLAN FOR MILLWORK BY GC.
A-4	DATA ROOM EQUIPMENT, SEE ELECTRICAL DRAWINGS.
A-5	COAT AND HOOKS, SEE INTERIOR ELEVATIONS AND DETAIL 6/A5.3.1.
A-6	CASH CHEST TO BE ANCHORED TO SLAB, SEE STRUCTURAL DRAWINGS.
A-7	COUNTER @ 2'-10" MAX. SEE DETAIL 1/A0.2.3 FOR KNEE CLEARANCES.
A-8	FIRE EXTINGUISHER CABINET. FINAL LOCATION TO BE DETERMINED BY LOCAL AHJ.
A-9	EDGE OF SOFFIT ABOVE.
A-10	BOOTH TABLE PER FURNITURE SCHEDULE. 2'-10" AFF MAX. SEE DETAIL 1/A0.2.3 FOR KNEE CLEARANCES.
A-11	HI/LO DRINKING FOUNTAIN, SEE DETAIL 4/A0.2.3 AND PLUMBING DRAWINGS.
A-12	TRASH CAN BY CHASE.
A-13	MOP-SINK, SEE PLUMBING DRAWINGS.
A-14	3" COUNTER GROMMETS, ONE 3" GROMMET IN DIVIDER BELOW COUNTER
A-15	18" X 18" CLEAR SPACE AT TACTILE SIGN, SEE 7/A0.2.2
A-16	MERCHANDISE FIXTURE, SEE A5.2.3 FOR BLOCKING REQUIREMENTS

GENERAL NOTES

1. G.C. SHALL VERIFY ALL FURNISHINGS ARE DELIVERED IN THE REQUIRED QUANTITY AND ARE NOT DAMAGED AT THE TIME DELIVERY. DAMAGED FURNISHINGS SHALL BE REPLACED IMMEDIATELY.
2. ALL FURNITURE , BANKING AND OFFICE EQUIPMENT SHALL NOT ENCROACH INTO OR REDUCE WIDTH OF ADA CLEARANCE AND TURNING RADIUS REQUIREMENTS AS IDENTIFIED ON PLANS. GC SHALL REVIEW THE ADA STANDARDS AND NOTIFY THE ARCHITECT IF ANY ISSUES.
3. GC SHALL FURNISH THE ITEMS IDENTIFIED ON THE PLAN AND SCHEDULES TO BE DELIVERED TO THE BANKING CENTER AT THE TIME OF SUBSTANTIAL COMPLETION.
4. ATMS MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS SEE DETAIL 10/A0.2.2.

FURNITURE AND EQUIPMENT LEGEND

X / XX	EQUIPMENT TAG, SEE SCHEDULE ON SHEET A3.2.2 & A3.3.3
30" H.	COUNTER HEIGHT
	18" X 18" CLEAR SPACE AT TACTILE SIGN, SEE 7/A0.2.2

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SHEET TITLE

FURNITURE & EQUIPMENT PLAN

SHEET NUMBER

A1.3



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

N

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # CMI-342110.
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED BEFORE CONSTRUCTION.
3. ANY PENETRATIONS THRU CONCRETE SLAB AT FLOOR NEED TO BE 2-HR FIRE RATED.

REFLECTED CEILING PLAN NOTES

A-1	(E) STRUCTURAL COLUMN. SEE STRUCTURAL DRAWINGS.
A-2	(E) EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
A-3	(E) OVERHANG STRUCTURE OR MTL CANOPY.
A-4	MECHANICAL EQUIPMENT ABOVE. SEE MECH DRAWINGS.
A-5	GYPSUM BOARD SOFFIT
A-6	1HR RATED GYPSUM BOARD CEILING.
A-7	WINDOW SHADES
A-8	J-BOX FOR EXTERIOR SIGNAGE, SEE ELECTRICAL DRAWINGS. COORDINATE WITH SIGN VENDOR FOR EXACT LOCATION PRIOR TO INSTALLATION. SIGNAGE UNDER SEPARATE PERMIT.
A-9	CENTER ACT IN BOTH DIRECTIONS IN ROOM
A-10	CEILING MOUNTED PENDANT. CENTER ABOVE FURNITURE BELOW.
A-11	USG COMPASSO ELITE 1-SIDED SHADE POCKET WITH 3" CLOSURE PLATE
A-12	WALL MOUNTED HVAC UNIT. SEE MECHANICAL DRAWINGS.
A-13	WOOD ACCENT CEILING FINISH.
A-14	LIGHT COVE ABOVE W/ARMSTRONG AXIOM AXILLCC2D EXTRUDED ALUM COVE LIGHT BRACKET BY GRID SUPPLIER, SEE ELECTRICAL DRAWINGS AND DETAIL 9/A5.4.1.
A-15	OUTLINE OF MILLWORK, EQUIPMENT OR FURNITURE BELOW.
A-16	PROVIDE 3/4" PLYWOOD TO EXTEND TO UNDERSIDE OF DECK ABOVE CEILING AS SECURITY BARRIER.
A-17	WALL-MOUNT ACCENT LIGHT FIXT. (TYP. 2)- CONNECT TO SINGLE REMOTE POWER SUPPLY ABOVE CEILING, SEE ELECTRICAL DRAWINGS.
A-18	PENDANT LIGHTS WITH CABLE KIT FOR CEILING TILE INSTALLATION, SEE ELECTRICAL DRAWINGS.
A-19	MECHANICAL LOUVER AT STOREFRONT, SEE MECHANICAL DRAWINGS.
A-20	PENDANT LIGHTS WITH CABLE KIT FOR CEILING TILE INSTALLATION, SEE ELECTRICAL DRAWINGS.
A-21	LIGHT COVE ABOVE BY GRID SUPPLIER. SEE ELEC. DWGS.

GENERAL NOTES

1. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN IBC TABLES 803.13
2. SEE DETAIL 1/A5.4.1 FOR SUSPENDED CEILING DETAILS. SUSPENDED CEILINGS ARE TO BE INSTALLED TO ASTM STANDARD. ASCE 7-10 13.2.5 OR 13.2.6, ASTM E 636, IBC 803.13 AND THE CISCA GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT HUNG SUSPENDED CEILING ASSEMBLIES FOR SEISMIC ZONE D.
3. A HEAVY DUTY T-GRID SYSTEM IS REQUIRED.
4. CEILING IN EXCESS OF 1,000 SF SHALL HAVE HORIZONTAL RESTRAINT ABOVE THE CEILING TO THE STRUCTURAL SYSTEM.
5. PROVIDE POSITIVE CEILING BRACING AT ANY CHANGES IN THE CEILING ELEVATIONS.
6. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE SUPPORTED INDEPENDENTLY OF THE CEILING.
7. SEE SHEET A/3.3.1 FOR FINISH SCHEDULE.
8. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

PLAN LEGEND

- SUPPLY AIR DIFFUSER: FULL FACE — SEE MECHANICAL DWGS FOR ADDITIONAL INFO.
- RETURN AIR GRILL: FULL FACE — SEE MECHANICAL DWGS FOR ADDITIONAL INFO.
- EXHAUST GRILL: SEE MECH DWGS FOR ADDITIONAL INFO
- RETURN/SUPPLY DIFFUSER. SEE MECHANICAL DWGS FOR ADDITIONAL INFO.
- 4" LAY-IN LED, SEE ELECTRICAL DWGS FOR ADDITIONAL INFO.
- 2'x2' LAY-IN LED L-2, SEE ELECTRICAL DWGS FOR ADDITIONAL INFO.
- DECORATIVE PENDANT, SEE ELECTRICAL DWGS FOR ADDITIONAL INFO.
- 4" COMPACT LED DOWN LIGHT, SEE ELECTRICAL DWGS FOR ADDITIONAL INFO.
- UNDER CABINET LIGHTING FIXTURE
- LIGHTED EXIT SIGN
- PENDANT LIGHT AT 10'-0" AFF

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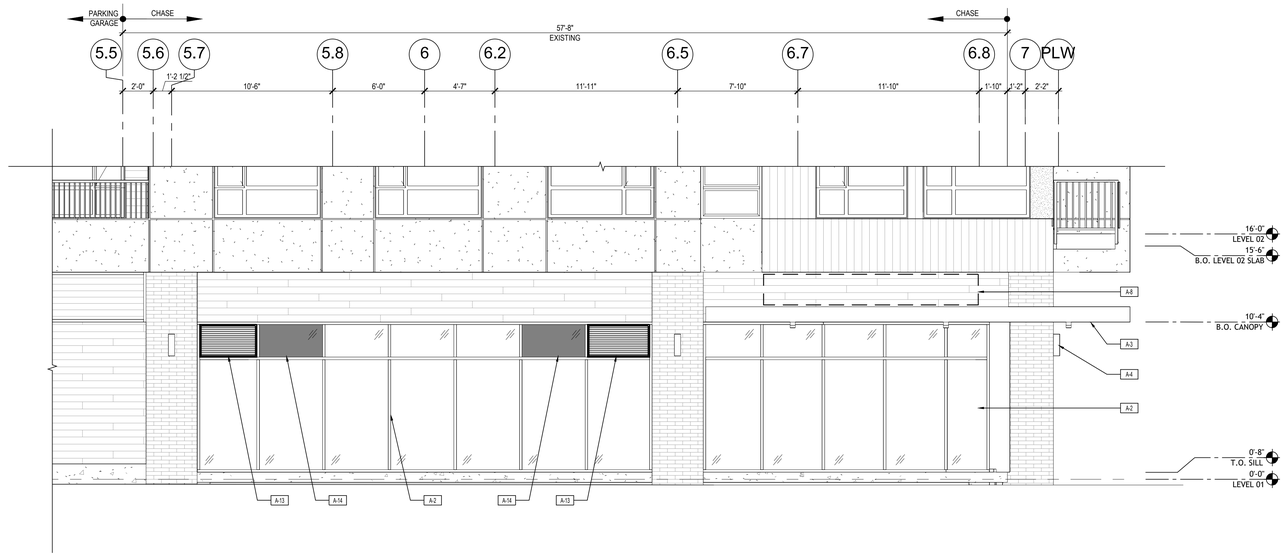
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SHEET TITLE

REFLECTED CEILING PLAN

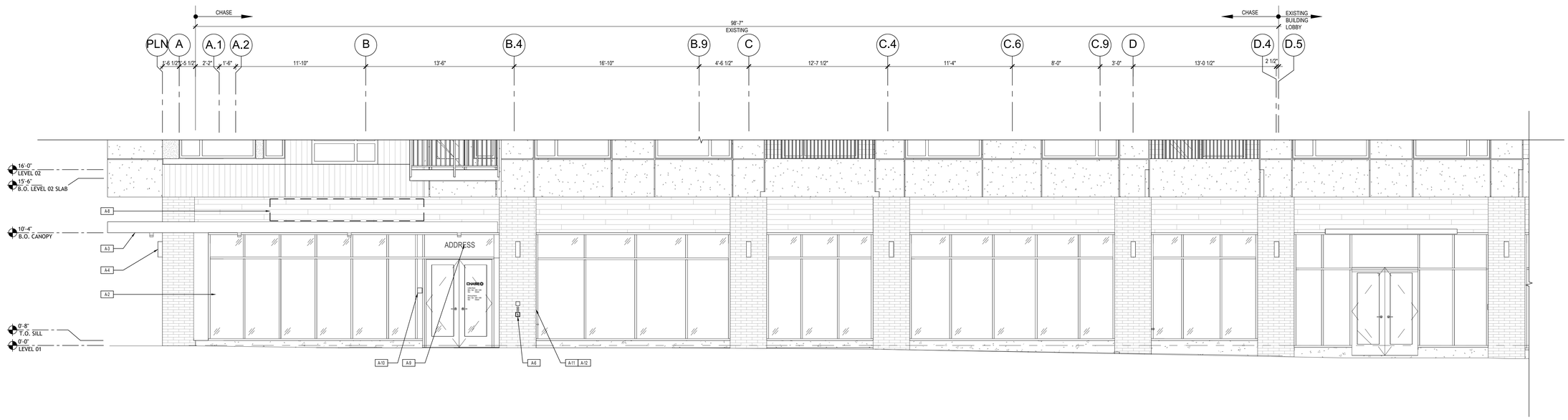
SHEET NUMBER

A1.4



2 / A2.0 EXISTING PARTIAL BUILDING ELEVATION - NORTH

1/4"=1'-0"



1 / A2.0 EXISTING PARTIAL BUILDING ELEVATION - WEST

1/4"=1'-0"

NOTE:
1. SHELL BUILDING UNDER SEPARATE PERMIT # XXXXX
2. ANY PENETRATIONS IN CEILING AND SLAB NEED TO BE SCANNED

ELEVATION NOTES

A-1	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
A-2	SHELL BUILDING STOREFRONT SYSTEM - CLEAR GLAZING
A-3	SHELL BUILDING OVERHANG
A-4	SHELL BUILDING DECORATIVE LIGHT FIXTURE
A-5	SURFACE-MOUNT EMERGENCY LIGHT FIXTURE: - REFER TO REFLECTED CEILING PLAN AND LIGHT FIXTURE SCHEDULE
A-6	AUTOMATIC DOOR OPERATOR BUTTON AND KEYCARD READER RECESSED FLUSH WITH WALL SURFACE- DO NOT SURFACE-MOUNT. PROVIDE 30X54 CLEAR FLOOR SPACE WITH 2% MAX SLOPE IN EA. DIRECTION CENTERED AT GROUND.
A-7	SECURITY CAMERA: PROVIDE CONCEALED JUNCTION BOX AND CONDUIT TO INTERIOR; REFER TO OWNER'S SECURITY CONSULTANT DRAWINGS
A-8	SIGNAGE: BY SIGN VENDOR- N.I.C.- PROVIDE ROUGH ELEC. WORK AND BLOCKING IN WALL AS REQD. FOR VENDOR INSTALLATION
A-9	BUILDING ADDRESS NUMBER: WHITE VINYL NUMBERS WITH 12" WIDE STROKE APPLIED TO INTERIOR FACE OF GLASS TRANSOM- MIN. 6" HEIGHT OR AS REQD. BY LOCAL CODE
A-10	ADA SIGN BY SIGN VENDOR.
A-11	ATM KEY BOX. RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE SLUSH WITH ADJACENT WALL FINISH. SEE DETAIL 16/A5.2.2
A-12	ACCESS KEY BOX. RECESS-MOUNT IN WALL CONSTRUCTION AS REQD. TO SET FACE SLUSH WITH ADJACENT WALL FINISH. SEE DETAIL 16/A5.2.2
A-13	MECHANICAL LOUVER, MODIFY EXISTING STOREFRONT. SEE MECHANICAL DRAWINGS.
A-14	APPLY SPANDREL WINDOW FILM TO EXISTING STOREFRONT. SEE WINDOW TYPES.

LEGEND - EXTERIOR FINISHES

- CONCRETE-1
- MWP-1
- FCP-1
- FCP-2
- BR-1

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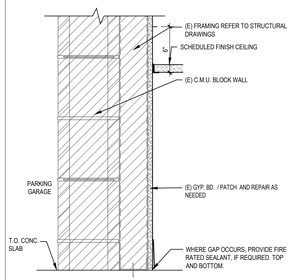
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EXISTING PARTIAL EXTERIOR ELEVATIONS

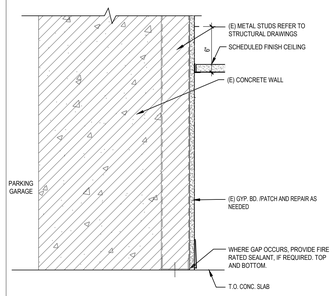
SHEET NUMBER

A2.0



WB — EXISTING EXTERIOR C.M.U. BLOCK WALL (1 HR DEMISING WALL) WITH EXISTING 4" FURRING

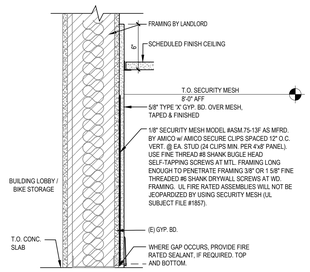
WB1 — SAME AS WB WITH ADDITIONAL FURRING TO ACCOMMODATE RECESSED ELECTRICAL PANEL



WC — EXISTING EXTERIOR CONCRETE WALL WITH EXISTING 4" FURRING

WC1 — SAME AS WC WITH ADDITIONAL FURRING TO ACCOMMODATE PLUMBING

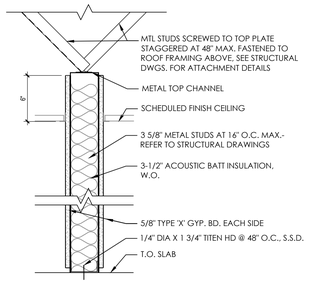
WC2 — EXISTING INTERIOR CONCRETE WALL WITH ADDITIONAL FURRING. WIDTH PER PLAN



WD — TENANT DEMISING PARTITION

WD1 — SAME AS WD WITH ADDITIONAL FURRING

WD2 — SAME AS WD INFILL TO MATCH EXISTING DEMISING WALL. FRE RATING, THICKNESS AND FINISH.



WI — TYPICAL INTERIOR PARTITION 3-5/8" METAL STUD - NON-RATED

WI 1 — SAME AS WI W/ 3 1/2" ACOUSTIC BATT INSULATION

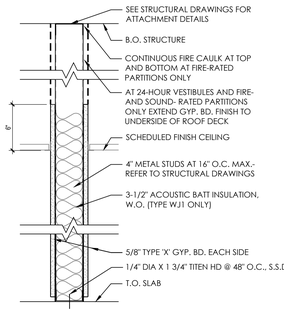
WI 2 — SAME AS WI 6" 20 GA METAL STUDS @ 16" O.C.

WI 3 — BALLISTIC PARTITION SAME AS 'WI' EXCEPT ADD 5/16" BALLISTIC PANEL SYSTEM PROVIDED BY OWNER'S EQUIPMENT VENDOR UNDER GYP. BD. FINISH AT EXTERIOR SIDE OF PROTECTED ROOM

WI 4 — SAME AS 'WI' EXCEPT OMIT GYP. BD. ON ONE SIDE

WI 5 — SAME AS 'WI' EXCEPT OMIT GYP. BD. ON ONE SIDE WITH 1 1/2" FURRING

NOTE: USE MOLD-RESISTANT GYP. BD. ON ALL WALLS IN WET AREAS, IE. RESTROOMS, JANITOR ROOM, ETC.



WJ — TYPICAL FULL HEIGHT 3 5/8" METAL STUD INTERIOR PARTITION NON-RATED

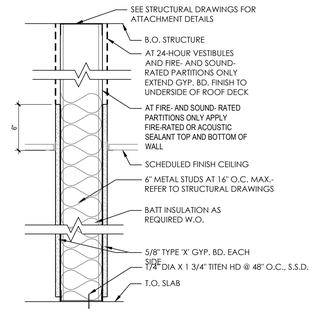
WJ1 — INTERIOR SOUND RATED PARTITION - SAME AS WJ W/ 3 1/2" ACOUSTIC BATT INSULATION, FINISH ON ONE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

WJ2 — SAME AS WJ W/GYP. BD. ON ONE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

WJ3 — SAME AS WJ 3/4" PLYWOOD BARRIER FINISH ABOVE CEILING ON VESTIBULE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

WJ4 — 1-HOUR FIRE-RATED PARTITION CONSTRUCTED TO COMPLY WITH U.L. TYPE U419

NOTE: USE MOLD-RESISTANT GYP. BD. ON ALL WALLS IN WET AREAS, IE. RESTROOMS, JANITOR ROOM, ETC.

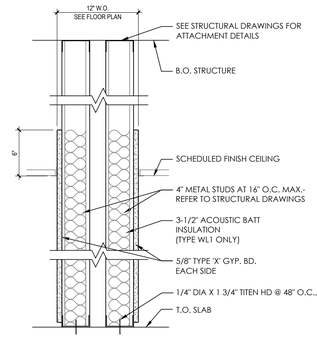


WK — TYPICAL 6" METAL STUD INTERIOR PARTITION NON-RATED

WK1 — INTERIOR SOUND RATED PARTITION - SAME AS WK W/ 5 1/2" ACOUSTIC BATT INSULATION, FINISH ON ONE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

WK2 — SAME AS WK 3/4" PLYWOOD BARRIER FINISH ABOVE CEILING ON VESTIBULE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

NOTE: USE MOLD-RESISTANT GYP. BD. ON ALL WALLS IN WET AREAS, IE. RESTROOMS, JANITOR ROOM, ETC.



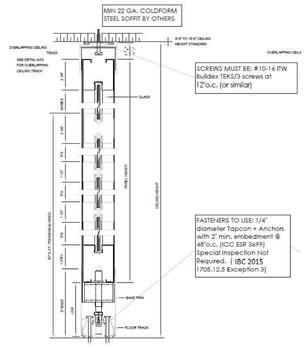
WL — TYPICAL 4" METAL STUD INTERIOR PARTITION NON-RATED W/O ACOUSTIC BATT INSULATION

WL1 — SAME AS WL W/ 3 1/2" ACOUSTIC BATT INSULATION

WL2 — SAME AS WL WIDTH PER PLAN

WL3 — SAME AS WL WIDTH PER PLAN 3/4" PLYWOOD BARRIER FINISH ABOVE CEILING ON VESTIBULE SIDE TO U/S OF (E) CONCRETE CEILING SLAB

WL4 — DISPLAY WALL - SAME AS WL EXCEPT 'OMIT' GYP. AND INSTALL PLYWOOD BACKING PER A5.2.1 WIDTH PER PLAN



WM — STOREFRONT / PARTITION SYSTEM NON-RATED

1 / A3.1 — WALL TYPES
1 1/2" = 1'-0"

PREPARED FOR:

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

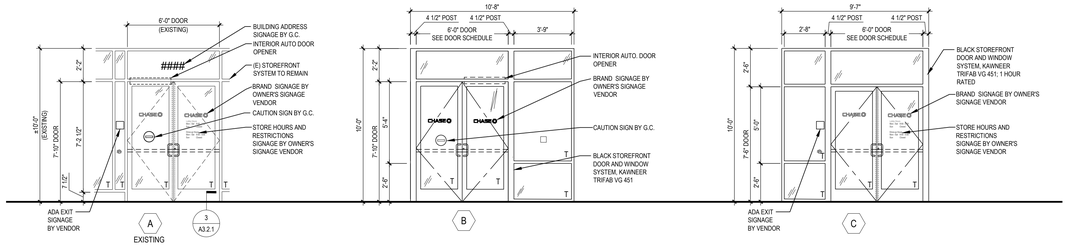
SHEET TITLE

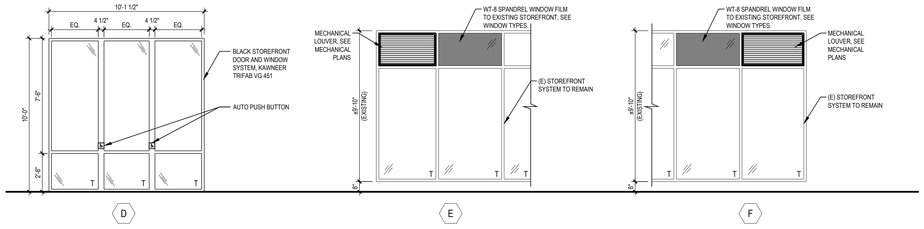
WALL TYPES

SHEET NUMBER

A3.1

WINDOW TYPES





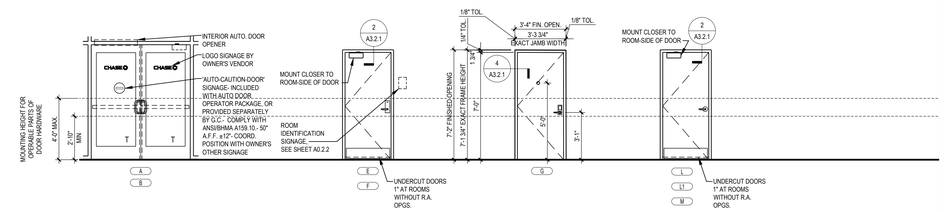
NOTES:

1. FIELD VERIFY ALL FRAME & OPENING SIZES AFTER INITIAL FRAMING COMPLETED-PRIOR TO SUBMITTING GLAZING SHOP DRAWINGS.
2. ALL GLAZING TO BE 1" INSULATED GLAZING WITH LOW-E COATING.
3. STOREFRONT & GLAZING TO HAVE MINIMUM NFRC VALUES OF 0.26 SHGC AND 0.36 U-FACTOR.
4. ALL UNIT DIMENSIONS ARE NOMINAL AND MAY VARY BY MANUFACTURER- COORDINATE WITH WALL SECTIONS
5. INDIVIDUAL LITES DESIGNATED WITH THE 'T' SYMBOL REQUIRE TEMPERED SAFETY GLASS- VERIFY ADDITIONAL REQUIREMENTS WITH APPLICABLE BUILDING CODES
6. MODIFY SIGNAGE DESIGN AS REQUIRED TO COMPLY WITH LOCAL BUILDING AND ZONING CODES AND SUBMIT TO OWNER FOR APPROVAL.
7. REFER TO OWNER'S PUBLICATION CHASE ADA SIGNAGE STANDARDS AND GUIDELINES, LATEST VERSION, FOR ADDITIONAL OWNER AND REGULATORY SIGNAGE REQUIREMENTS AND GUIDANCE.
8. AT NON-ADA-COMPLIANT ENTRANCES, PROVIDE ADA-COMPLIANT DIRECTIONAL SIGNAGE FEATURING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS REQD. TO DIRECT APPROACHING FOOT TRAFFIC TO THE COMPLIANT ENTRANCE

DOOR TYPES SCHEDULE

DOOR NUMBER	TYPE	TYPICAL SIZE			DOOR		FRAME		HDWR.	NOTES
		W	H	T	MATERIAL	FINISH	MATERIAL	FINISH		
1	A (E) ENTRANCE	(2) 3'-0"	7'-10"	1 3/4"	ALUMINUM / INSUL. GLASS	EXISTING	EXISTING	EXISTING	01	WIDE-STILE, 10" BOTTOM RAILS, STORE HOURS SIGNAGE BY OWNER; COORDINATE HARDWARE WITH LANDLORD, REMOVABLE MULLION.
2	A (2ND ENTRANCE)	(2) 3'-0"	7'-6"	1 3/4"	ALUMINUM / INSUL. GLASS	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	01A	WIDE-STILE, 10" BOTTOM RAILS; 1 HOUR RATED
3	B VESTIBULE	(2) 3'-0"	7'-10"	1 3/4"	ALUMINUM / GLASS	BLACK ANODIZED	ALUMINUM	BLACK ANODIZED	02	WIDE-STILE, 10" BOTTOM RAILS; REMOVABLE MULLION
4, 6, 11, 13	E SECURED	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03	3'-0" TYPICAL WIDTH; 3'-4" WIDTH AT ATM; CLOSER CONCEALED FROM CUSTOMER VIEW
	E1 SECURED PAIR	(2) 3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03A	DOOR PAIR TO ATM/EQUIPMENT ROOM
8, 9, 10	F PRIVACY (RESTROOM)	3'-0"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	04	TYPICAL AT RESTROOMS. UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RUTURN AIR OR EXHAUST.
	F1 PRIVACY (SDB VIEWING RM.)	3'-0"/ 3'-4"	7'-0"	1 3/4"	SOLID-CORE WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	04A	TYPICAL AT SDB VIEWING ROOMS, UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RUTURN AIR OR EXHAUST.
12	G BULLET-RESISTANT	3'-4"	7'-0"	1 3/4"	REINFORCED SOLID-CORE FLUSH WOOD BY HAMILTON	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL BY HAMILTON	PAINT TO MATCH ADJACENT WALL	BY HAMILTON	DOOR, FRAME, HINGE AND CLOSER PROVIDED BY BANK EQUIPMENT VENDOR- G.C.'S PAINTER TO FIELD PRIME WITH ETCHING PRIMER AND PAINT DOOR AND FRAME
	H EGRESS/STEEL	3'-0"	7'-6"	1 3/4"	INSUL. STEEL	INT.: MATCH WALL EXT: EPT-1	HOLLOW METAL	INT.: MATCH WALL EXT: EPT-1	09	EGRESS DOORS IN HOLLOW METAL FRAMES
14, 15	L UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	03A	UNDERCUT DOORS 1" WHEN ROOM PROVIDED WITH ONLY SUPPLY AIR OR RETURN AIR OR EXHAUST. PROVIDE KICK PLATES AT EACH SIDE. AND COMBINED STOP/HOLDER PER HARDWARE SCHEDULE.
7	L1 FIRE-RATED UTILITY	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	06	SAME AS "L" EXCEPT FIRE-RESISTANCE RATED FOR 1 HOUR. INCLUDE FULL PERIMETER SMOKE SEALS AND SWEEP.
5	M PASSAGE	3'-0"	7'-0"	1 3/4"	SOLID-CORE FLUSH WOOD	PAINT TO MATCH ADJACENT WALL	HOLLOW METAL	PAINT TO MATCH ADJACENT WALL	05	TYPICAL AT 2ND DOOR IN A SERIES TO A ROOM WITH BANK EQUIPMENT WHERE THE FIRST DOOR IS TYPE E; ALSO FOR USE AT NON-SECURED CLOSETS.
	Q OVERHEAD COILING	SEE PLAN	FLUSH W/ CEILING	NA	ALUMINUM / POLYCARBONATE	BLACK ANODIZED FIELD-PAINT BOTTOM RAIL/PLATE BOTTOM SURFACE PT-500	ALUMINUM	CLEAR ANODIZED (JAMB CHANNELS ONLY)	BY MFR.	QMI SECURITY SOLUTIONS TRANSPAROLL NPT (SUBSTITUTIONS NOT PERMITTED). PROVIDE FLUSH KEY SWITCHES WITH SCHLAGE C123 CORES: 2 AT SITES WITHOUT SEPARATE EMPLOYEE ACCESS; 1 AT SITES WITH SEPARATE EMPLOYEE ACCESS; PROVIDE BATTERY BACKUP POWER WITH REQUIRED ACCESS ABOVE CEILING.
	R EMPLOYEE ENTRANCE	3'-0"	8'-4"	1 3/4"	ALUMINUM / GLASS	CLEAR ANODIZED	ALUMINUM	CLEAR ANODIZED	16	

DOOR TYPES



DOOR SCHEDULE NOTES

DOOR AND HARDWARE NOTES:

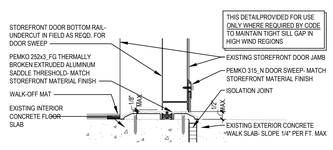
1. EXTERIOR METAL DOORS TO BE GALV. & INSULATED
2. HOLLOW METAL JAMBS IN MASONRY TO BE GROUTED SOLID.
3. ALL DOORS WITH LOCKING HARDWARE, INCLUDING ALL CIPHER LOCKS AND STOREFRONT DOORS, WILL HAVE A SCHLAGE EVEREST C-123 REMOVABLE CORE, PROVIDED BY THE G.C./SUB. COORDINATE PERMANENT CORE / KEYING MANFR & INSTALLATION WITH ARCHITECT. PERMANENT CORE / KEYING INCLUDED IN BID KEYING ALLOWANCE. CONSTRUCTION CORES BY G.C.
4. DOORS NOT HAVING PANIC HARDWARE SHALL HAVE LEVER TYPE DOOR HANDLES.
5. ALL DOOR HARDWARE TO MEET ADA ACCESSIBILITY GUIDELINES:
   A. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
   B. HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES (863 MM) AND 48 INCHES (1117 MM) ABOVE THE FLOOR.
   C. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, U-SHAPED HANDLES OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE.
   D. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
   E. DOOR CLOSING SPEED SHALL COMPLY WITH 2017 ADA STANDARD SEE SHEET A0.2.1.
   F. THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR AND EXTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS.
   G. FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15-POUND FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE.
   H. DOOR THRESHOLD SHALL NOT EXCEED 1/2" WITH BEVELED SLOPE NOT MORE THAN 2:1 FOR THE UPPER 1/4".
   I. THE BOTTOM 10 INCHES OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE.
   K. PROVIDE TACTILE EXIT SIGN AT EXIT DOORS PER SHEET 2017 ADA STANDARDS SEE SHEET A0.2.3.
6. ON EGRESS THROUGH INTERVENING SPACES SHALL NOT PASS THROUGH ROOMS SUBJECT TO LOCKING.
7. RETROFIT EXISTING DOOR AS REQUIRED TO FACILITATE REQUIRED DOOR FUNCTION/SECURITY.
8. BR DOOR SUPPLIED BY BULLET GLASS VENDOR. BR DOOR, FRAME AND HARDWARE FURNISHED AND INSTALLED BY SECURITY VENDOR. GC TO PAINT DOOR AND FRAME AND FURNISH AND INSTALL KICK PLATES. MOUNT CLOSER ON PULL SIDE.
9. GC TO PROVIDE ALL KEYS AT TURNOVER. SEE SPECS FOR KEYING SCHEDULE
10. GC TO PROVIDE CYLINDERS FOR ALL KEY SWITCH OVERRIDES
11. SALVAGED STOREFRONT DOORS MAY BE RE-USED AND RETROFIT ACCORDINGLY FOR NEW HARDWARE IN LIEU OF NEW DOORS.
12. EGRESS DOORS SHALL BE READILY OPEN FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
13. WHERE KEY-OPERATED LOCKING DEVICES ARE USED ON MAIN EXTERIOR DOOR OR DOORS, POST A SIGN ON OR ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1-IN LETTERING STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED."
14. REFER TO MECH PLANS FOR DOORS THAT NEED TO BE UNDERCUT.
15. COORDINATE PERMANENT CORE / KEYING MANFR & INSTALLATION WITH ARCHITECT. CONSTRUCTION CORES BY GENERAL CONTRACTOR.
16. REFER TO HARDWARE SPECIFICATIONS FOR CLOSER MOUNTING LOCATIONS.
17. ALL EGRESS DOOR SHALL BE READILY OPERATED FROM THE EGRESS SIDE, WITH A SINGLE ACTION WITHOUT THE USE OF A KEY, THUMB TURN, OR ANY SPECIAL KNOWLEDGE OR EFFORT, ONLY THE MAIN DOORS MAY BE PERMITTED TO HAVE KEYED-OPERATED LOCKING DEVICES IF ALL OF THE FOLLOWING ARE IMPLEMENTED:

a) THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED, IN ACCORDANCE WITH IFC 1010.1.9.3.2.1.
b) A SIGN PROVIDED ABOVE THE DOOR DECLARING: "THIS DOOR TO REMAIN UNLOCKED" WHEN THIS SPACE IS OCCUPIED", IN ACCORDANCE WITH IFC 1010.1.9.3.2.2.

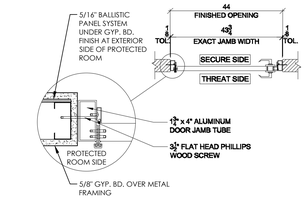
NOTE: A DEAD BOLT OR A THUMB BOLT LOCK IS NOT ALLOWED.

GLAZING VALUES:
SHGC = 0.25
U-VALUE = 0.32

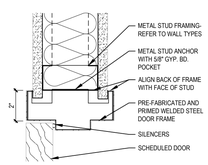
ABBREVIATIONS
AL. = ALUMINUM TEMP.
GL. = TEMPERED GLASS
H.M. = HOLLOW METAL
S.C. = SOLID CORE
WD. = WOOD
E.A. = EXTRUDED ALUMINUM



3 A3.2.1 STOREFRONT DOOR THRESHOLD
3" = 1'-0"

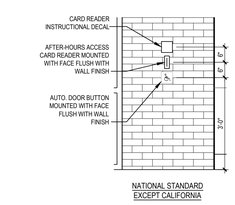


4 A3.2.1 BRG DOOR JAMB
1/2" = 1'-0"



MTL FRAMING

2 A3.2.1 INTERIOR DOOR HEAD / JAMB SIMILAR
3" = 1'-0"



1 A3.2.1 AUTO DOOR BUTTON
1/2" = 1'-0"

PREPARED FOR:

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PROJECT INFORMATION BLOCK

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DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

DOOR SCHEDULE, DOOR AND WINDOW TYPES AND DETAILS

SHEET NUMBER

A3.2.1

DOOR HARDWARE SCHEDULE

GROUP	COMPONENT	MFR.	MODEL	FINISH	NOTES
01 ENTRANCE / 01A ENTRANCE 2	CONTINUOUS HINGE (2)	KAWNEER	---	#29 BLACK	
	REMOVABLE MULLION	VON DUPRIN	KR4854	SPBLK (BLACK PAINT)	
	PANIC BAR	VON DUPRIN	CD99EO	626 SATIN CHROMIUM	
	PANIC BAR	VON DUPRIN	CD99NL-OP	626 SATIN CHROMIUM	
	MORTISE CYLINDER	SCHLAGE	20-001/S123	626 SATIN CHROMIUM	NOTE 8
	MORTISE CYLINDER (2)	SCHLAGE	20-001 XQ11-948/S123	626 SATIN CHROMIUM	
	RIM CYLINDER	SCHLAGE	20-022	626 SATIN CHROMIUM	
	ELECTRIC STRIKE	VON DUPRIN	6111 FSE DS 24V	630 SATIN STAINLESS STEEL	OMIT AT TYPE 01A (NOTES 4,5)
	CARD READER SYSTEM	PARABIT	ACSIEV2	BLACK	PROVIDED AND INSTALLED BY OWNER'S SECURITY SYSTEM VENDOR, OMIT AT TYPE 01A (NOTES 4,5)
	OFFSET DOOR PULL (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL	
	OFFSET DOOR PULL (ALT.) (2)	TRIMCO	1191E-3-4.BPVC	PVC	PVC-COATED "STAY-COOL" PULLS FOR USE IN THE DESERT SOUTHWEST ONLY
	POWER OPERATOR	LCN	4640CS	POWDER COAT BLACK	OMIT AT TYPE 01A. MATCH EXISTING STOREFRONT COLOR AT IN-LINE OR EXISTING BUILDING PROJECTS. INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2. (NOTE 5)
	DOOR PUSHPLATES (2) EXCEPT CALIFORNIA PROJECTS	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (4) CALIFORNIA PROJECTS ONLY	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (2) OPT. BAR AT CALIFORNIA PROJECTS ONLY	LCN	8310-836T (6" x 36" BAR)	SATIN S.S	OMIT AT TYPE 01A
	SURF.-MOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE A WALL WITH ACCESSIBLE CLEARANCES IS NOT AVAILABLE. NOT TO BE USED AT ANY EXTERIOR NEW-BUILD CONDITION.
	KEY SWITCH	SCHLAGE	653-1414-L2	---	NARROW-STILE COVER PLATE- OMIT AT TYPE 01A
	CLOSER	LCN	4111-3077CNS	STANDARD POWDER COAT BLACK	PROVIDE 2 AT TYPE 01A. SET TO LOWEST POSSIBLE OPENING FORCE REQUIRED TO MAINTAIN WEATHER SEAL INTEGRITY
	SEALS	PEMKO	297AS	MILL-FIN. ALUMINUM	
	SWEEP- STANDARD	PEMKO	2170DV	DARK BRONZE VINYL	
	SWEEP- HIGH WIND CONDITIONS	PEMKO	315DN	DARK ANOD. BRONZE	ORDER LONG AND CUT METAL SHORT TO ALLOW NEOPRENE TO EXTEND BEYOND DOOR LOCK EDGE
	THRESHOLD	PEMKO	253X3AFG	MILL-FIN. ALUMINUM	
02 VESTIBULE	BUTT HINGE (6)	HAGER	BB1191 4.5x4.5 L1 NRP	BLACK	STOCK# 006597
	REMOVABLE MULLION	VON DUPRIN	KR4954	SPBLK (BLACK PAINT)	
	PANIC BAR	VON DUPRIN	CD99EO	626 SATIN CHROMIUM	
	PANIC BAR	VON DUPRIN	CD99NL-OP	626 SATIN CHROMIUM	
	MORTISE CYLINDER	SCHLAGE	20-001/S123	626 SATIN CHROMIUM	NOTE 8
	MORTISE CYLINDER (2)	SCHLAGE	20-001 XQ11-948/S123	626 SATIN CHROMIUM	
	RIM CYLINDER	SCHLAGE	20-022	626 SATIN CHROMIUM	
	OFFSET DOOR PULL (2)	IVES	8190-0-O	630 SATIN STAINLESS STEEL	
	POWER OPERATOR	LCN	4640CS	POWDER COAT BLACK	INCLUDE CONCEALED SWITCH BLANK END PLATE 334-2 (NOTE 5)
	DOOR PUSHPLATES (2) EXCEPT CALIFORNIA PROJECTS	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (4) CALIFORNIA PROJECTS ONLY	LCN	8310-853T (4" SQUARE)	SATIN S.S	OMIT AT TYPE 01A
	DOOR PUSHPLATES (2) OPT. BAR AT CALIFORNIA PROJECTS ONLY	LCN	8310-836T (6" x 36" BAR)	SATIN S.S	OMIT AT TYPE 01A
	SURF.-MOUNT PUSH PLATE ENCLOSURE	LCN	8310-867S	BLACK PLASTIC	FOR USE ONLY AT NON-STANDARD PLANS WHERE WALL WITH ACCESSIBLE CLEARANCES IS NOT AVAILABLE. NOT TO BE USED AT ANY EXTERIOR NEW-BUILD CONDITION.
	KEY SWITCH	LCN	8310-806K	---	RECESSED IN HINGE JAMB MULLION at 38" AFF (NOTE 5)
	CLOSER	LCN	4111-3077CNS	STANDARD POWDER COAT BLACK	LEFT-HAND LEAF AS VIEWED FROM EXTERIOR, ADA COMPLIANT
03 SECURED	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-S123	626 SATIN CHROMIUM	NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS; ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	AT DOORS OPENING AGAINST WALL; WITH R14 RISER AS REQUIRED
	OVERHEAD STOP	GLYNN-JOHNSON	410S	630 SATIN STAINLESS STEEL	AT DOORS OPENING AGAINST FURNITURE
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 10" x 2" LESS THAN DOOR WIDTH
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
03A SECURED PAIR	BUTT HINGE (6)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-S123	626 SATIN CHROMIUM	NOTE 8
	CLOSER (2)	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS; ADA COMPLIANT
	COORDINATOR	IVES	COR SERIES	ALUMINIM	
	AUTOMATIC FLUSH BOLTS	IVES	FB41P	ALUMINIM	
	DUST-PROOF STRIKE	IVES	DP1	626 SATIN CHROME	
	FLOOR STOP (WHEN REQD.)	IVES	FS13 / FS17	626 SATIN CHROME	AT DOORS OPENING AGAINST WALL; WITH R14 RISER AS REQUIRED
	OVERHEAD STOP (WHEN REQD.)	GLYNN-JOHNSON	410S	630 SATIN STAINLESS STEEL	AT DOORS OPENING AGAINST FURNITURE
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 10" x 2" LESS THAN DOOR WIDTH
	AUTOMATIC DROP SEAL	PEMKO	4131CNBL	ALUMINUM + NYLON BRUSH INSERT	
	ASTRAGAL	PEMKO	371P/372P	ALUMINUM + GRAY BRUSH	
	PERIMETER GASKET	PEMKO	306WQ	ALUMINUM + FOAM INSERT	APPLY TO HEAD AND JAMB STOPS
04 PRIVACY	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-40-KP-SPA-626-PD-S123	626 SATIN CHROMIUM	WITH PRIVACY 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; 10" x 2" LESS THAN DOOR WIDTH
	COAT HOOKS (2)	IVES	581	626 SATIN CHROMIUM	AT RESTROOMS ONLY, 1 AT 36" AFF, 1 AT 60" AFF
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY- OMIT AT RESTROOMS & SDB VIEWING ROOMS, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
04A STANDARD AT SDB VIEWING RM. --- ALTERNATE AT RESTROOMS BY EXCEPTION	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	PRIVACY LOCK	SCHLAGE	L9496-17A/S123	626 SATIN CHROMIUM	ADA-COMPLIANT MORTISE THUMB TURN PRIVACY LOCK WITH OCCUPANCY INDICATOR: EXTERIOR UNLOCKED EXCEPT WHEN LOCKED BY THUMB TURN OR KEY; NOTE 8; EXCEPTION FOR OCCUPANCY INDICATOR LOCK IN LIEU OF STANDARD KEYPAD LOCK (#04) PERMITTED ONLY WHEN ADJACENT HALLWAY IS SECURED BY A KEYPAD LOCK FROM THE LOBBY.
	THUMB TURN	SCHLAGE	09-509x/L583-363	626 SATIN CHROMIUM	ADA-COMPLIANT THUMB TURN
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	OMIT AT SDB VIEWING ROOMS; DOOR-MOUNT ON ROOM SIDE, ADA COMPLIANT.
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 10" x 2" LESS THAN DOOR WIDTH
	COAT HOOKS (2)	IVES	581	626 SATIN CHROMIUM	AT RESTROOMS ONLY, 1 AT 36" AFF, 1 AT 60" AFF
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY- OMIT AT RESTROOMS & SDB VIEWING ROOMS, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
05 PASSAGE	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	PASSAGE LATCH SET	SCHLAGE	ND10S/SPA	626 SATIN CHROMIUM	INCLUDE MILLED GROOVES (/8SP) AT ELECTRICAL ROOM DOORS
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS, ADA COMPLIANT
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	WITH R14 RISER AS REQUIRED
	KICK PLATE	IVES	8400	630 SATIN STAINLESS STEEL	PUSH SIDE ONLY; 10" x 2" LESS THAN DOOR WIDTH
	SILENCERS	IVES	SR64	GRAY	
06 UTILITY	BUTT HINGE (3)	HAGER	BB1191 ANSI A2112 4.5x4.5	626 SATIN CHROMIUM	
	STOREROOM LOCK SET	SCHLAGE	ND80PD/S123/SPA	626 SATIN CHROMIUM	NOTE 8
	CLOSER	LCN	4011/4041-3077	SP28 GRAY PAINT	DOOR-MOUNT ON ROOM SIDE- NOT VISIBLE TO CUSTOMERS, ADA COMPLIANT
	CONCEALED OVERHEAD STOP/HOLDER	GLYNN-JOHNSON	410H	630 SATIN STAINLESS STEEL	OVERHEAD CONCEALED COMBINED STOP/HOLDER REQUIRED AT PLUMBING/JANITOR CLOSET, ELECTRICAL, AND DATA ROOMS; OMIT AT ROOMS WITH LADDER ONLY.
	KICK PLATE (2)	IVES	8400	630 SATIN STAINLESS STEEL	8" x 2" LESS THAN DOOR WIDTH; PLUMBING/JANITOR CLOSET, ELECTRICAL, AND DATA ROOMS REQUIRE KICK PLATES AT BOTH SIDES OF DOOR.
	DOOR SWEEP	PEMKO	4131CNBL	CLEAR ANOD. ALUMINUM	DATA ROOM DOOR ONLY
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY; NOTE 1; GENERALLY NOT REQUIRED ON UTILITY DOOR EXCEPT WHEN PROVIDED WITH KEYPAD LOCK AND OPENING TO CUSTOMER AREA; NEVER REQUIRED ON DATA ROOM DOOR.
	SILENCERS	IVES	SR64	GRAY	
09 EGRESS	BUTT HINGE (2)	HAGER	BB1191 ANSA A5112 NRP 4.5x4.5	630 SATIN STAINLESS STEEL	
	POWER TRANSFER HINGE (1)	HAGER	BB1191 ANSI A5112 ETW 4.5 x 4.5	630 SATIN STAINLESS STEEL	4-CONDUCTOR THROUGH-WIRE POWER TRANSFER HINGE
	PANIC BAR WITH ALARM	VON DUPRIN	99NL-OP-ALK-AR-CON-3'-US26D	626 SATIN CHROMIUM	PANIC BAR WITH ALARM KIT, AUTO-RESET, AND MFR'S POWERED HINGE WIRING KIT. LENGTH AS REQD.
	ALARM POWER SUPPLY	VON DUPRIN	PS-900 SERIES	---	INCLUDE INTERNAL BACKUP BATTERY; SEE NOTE 7
	MORTISE CYLINDER	SCHLAGE	20-001/S123	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	2006AP	MILL-FIN. ALUMINUM	
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000 168 degree	SILVER PAINT	ALUMINUM BODY, NOTE 1
10 BULLET-RESISTANT	CONTINUOUS HINGE	---	---	SATIN CHROME/STAINLESS STEEL	BY BANK EQUIPMENT VENDOR
	ELECTRONIC LOCK	SCHLAGE	CO-100-CY-70-KP-SPA-626-PD-S123	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; 10" x 2" LESS THAN DOOR WIDTH
	DOOR SCOPE	IPI / DOOR SCOPE	DS2000	SILVER PAINT	ALUMINUM BODY, NOTE 1
	SILENCERS	IVES	SR64	GRAY	
14 TRASH ENCLOSURE GATE	BARREL HINGES (1 PAIR PER LEAF)	GUARDIAN	2130.100	PAINT TO MATCH ADJ. FINISH	AT C.M.U. ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
			2135.100	PAINT TO MATCH ADJ. FINISH	AT STEEL POST ENCLOSURES- OR EQUAL- 1000-LB. CAPACITY PER PAIR, PRIMED STEEL
	LATCH	STANLEY	621513	GALVANIZED STEEL	OR EQUAL
	PULL (1 PER LEAF)	CROWN BOLT	62309	GALVANIZED STEEL	OR EQUAL
	CANE BOLT (1 PER LEAF)	STANLEY	532531	GALVANIZED STEEL	BY PANEL SYSTEM MANUFACTURER
	SPRING-LOADED CASTERS (1 PER LEAF)	ABBEY TRADING	081-368-1	GALVANIZED STEEL	OR EQUAL
	BOLTS AND MISC. HARDWARE	---	---	STAINLESS STEEL	
16 EMPLOYEE ENTRANCE	BUTT HINGE (3)	HAGER	BB1191 4.5x4.5 L1 NRP	BLACK	STOCK #006597
	MORTISE DEAD LATCH	SCHLAGE	L9080/S123/SPA	626 SATIN CHROMIUM	WHERE DOOR MFR'S LOCK BODY IS REQD., PROVIDE SCHLAGE LOCK CYLINDER, ANSI F07 "STOREROOM LOCK" FUNCTION; ADA SINGLE-ACTION COMPLIANT; NOTE 8
	LEVERS (2)	SCHLAGE	SPARTA	626 SATIN CHROMIUM	
	SILENCERS	IVES	SR64	GRAY	
	CLOSER	LCN	4111-3077/CNS	STANDARD POWDER COAT BLACK	
	FLOOR STOP	IVES	FS13 / FS17	626 SATIN CHROMIUM	

NOTES:

1. DOOR SCOPE REQUIRED UNLESS DOOR INTO ROOM CANNOT BE CLOSED WHILE OCCUPIED (I.E. CLOSETS) OR DOOR DOES NOT OPEN INTO AREAS ACCESSIBLE TO CUSTOMERS.
2. HARDWARE SET 01A - TO BE USED AT ANY ENTRANCE THAT IS NOT EITHER THE PRIMARY ENTRANCE TO THE BRANCH OR A 24/7 VESTIBULE.
3. 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.
4. 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.
5. OMIT PARABIT AFTER-HOURS CARD READER ACCESS SYSTEM WHERE DOORS DO NOT ACCESS A 24-HOUR VESTIBULE WITH ATM OR OTHER CUSTOMER-FACING EQUIPMENT.
7. REFER TO AUTO DOOR CONTROL DIAGRAMS, SHEET E3.
8. 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.
9. 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.
10. G.C. TO COORDINATE WITH OWNER'S FACILITY MANAGER TO VERIFY LOCK CORE AND KEYWAY COMPATIBILITY WITH REGIONAL HARDWARE STANDARDS- MATCH LOCAL CONFIGURATION.

VENDOR CONTACTS

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ESL POWER SYSTEMS- ORDERS	---	---	orders@eslpwr.com
EVERCHARGE	GERALD SEE	415-203-5977	gerald.see@evercharge.com
EVER-ON	MARY BETH FOX, ANDREW RIZZO	---	JPMC_RetailFA@everon.com
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GORDON, INC.	ERIC MAU	847-797-1010	eric@mauinc.com
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HINES, INC.	NATE HINES	970-233-7925 480-710-7474	nate@hinesinc.com
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LUMENOMICS, LLC	MARTI HOFFER	206-327-9037	chaseteam@lumenomics.com

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MAPES ARCHITECTURAL CANOPIES	CHAD FREEBURGER	888-273-1132	cfreeburger@mapes.com nationalaccounts@mapes.com
MATTHEWS PAINT	LOCAL DISTRIBUTOR	---	---
MERMET USA	LOCAL DISTRIBUTOR	866-902-9647	---
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NEVAMAR	LOCAL DISTRIBUTOR	---	---
NORTON INDUSTRIES, INC.	ALEXANDRA SCOTT	216-228-6650	alexandra@nortonceilings.com
PHIFER	LOCAL DISTRIBUTOR	800-221-5497	---
PIONEER MILLWORKS	JERED SLUSSER	800-951-9663	jered@pioneermillworks.com
PIONITE	LOCAL DISTRIBUTOR	---	---
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QMI SECURITY SOLUTIONS	KEVIN BECERRA	800-446-2500	kbecerra@cmiusa.com
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TARKETT (PREV. JOHNSONITE)	LOCAL DISTRIBUTOR	---	---
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USG	TRAVIS TOMANEK	440-541-3972	ttomanek@usg.com
WASTE WISE PRODUCTS, INC	PAUL DECONINCK	877-680-8361	---
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WESTLAKE ROYAL STONE (CULTURED STONE)	KATHY MANNON	419-806-2234	kmannon@westlake.net
WILSONART	LOCAL DISTRIBUTOR	---	---

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

VENDOR LIST AND DOOR HARDWARE SCHEDULE

SHEET NUMBER

A3.2.2

INT. FIN. MATERIALS SCHEDULE

	PAINT	
PT-500	**GENERAL WALL/ CEILING PAINT**	
	MFR.	BENJAMIN MOORE
	PRODUCT	ECO SPEC INTERIOR LATEX
	COLOR	CLOUD WHITE #CC-40
	FINISH	WALLS : 374 EGGSHELL
		CEILINGS: 373 FLAT
		DOORS AND FRAMES: 376 SEMI GLOSS
PT-501	**ACCENT WALL PAINT- GREY**	
	MFR.	BENJAMIN MOORE
	PRODUCT	ECO SPEC INTERIOR LATEX
	COLOR	HEARTHSTONE #1601
	FINISH	WALLS : 374 EGGSHELL
		CEILINGS: 373 FLAT
		DOORS AND FRAMES: 376 SEMI GLOSS
	WALL FINISHES	
WC-402	**WALLCOVERING AT ATM WALL**	
	MFR.	MOMENTUM TEXTILES
	PRODUCT	RECORE 'BACCARAT'
	COLOR	BASALT #NA-4C-JPM501
	WIDTH	53" ROLLED MATERIAL
FRP-1	**FIBERGLASS-REINFORCED PLASTIC PANELING**	
	MFR.	CRANE COMPOSITES
	PRODUCT	GLASBORD PIF
	FINISH	84 IVORY
	LOCATIONS	JANITOR CLOSET / LADDER ROOM
	WINDOW TREATMENTS	
WT-1	**MOTORIZED ROLLING SHADE (5% OPENNESS FACTOR)**	
	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-2	**MOTORIZED ROLLING SHADE (3% OPENNESS FACTOR)**	
	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-3	**VINYL WINDOW COVERING**	
	MFR.	SOLYX
	PRODUCT	SXWV-0200
	COLOR	CLEAR LUSTER 78% TRANSMITTANCE
	USES	AT CLOSED VESTIBULE GLAZING ADJACENT TO BANKER CUBICLES
WT-4	**FROSTED WINDOW FILM**	
	MFR.	LLUMAR
	PRODUCT	NRM PS2
	COLOR	FROSTED 69% TRANSMITTANCE
	USES	AT CLOSED VESTIBULE GLAZING ADJACENT TO BANKER CUBICLES
WT-5	**MANUAL ROLLING SHADE (5% OPENNESS FACTOR)**	
	VENDOR / INSTALLER	LUMENOMICS
	PRODUCT	SHEER WEAVE 2000
	SHADE COLOR	WHITE PLATINUM P05
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-6	**MANUAL ROLLING SHADE (3% OPENNESS FACTOR)**	
	PRODUCT	SHEER WEAVE 2410 P14
	SHADE COLOR	PEARL GREY / OYSTER
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
WT-7	**DOUBLE-ROLLER SHADE**	
	PRODUCT	MBOR
	FRONT SHADE	MATCH TYPICAL FABRIC WITHIN BRANCH, WT-1 OR WT-2
	BACK SHADE	INDIANA COATED GRAY (OPAQUE)
	HOUSING	REFER TO INTERIOR FINISH SCHEDULE
	NOTES	PRODUCT INSTALLED BY LUMENOMICS, REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
	USES	TYPICAL AT ALL CONFERENCE ROOM WINDOWS
WT-8	**FIELD-APPLIED SPANDREL FILM**	
	VENDOR / INSTALLER	3M
	PRODUCT	SCOTCHCAL GRAPHIC FILM
	COLOR	3630-51, SILVER
	FURNISHED BY	GENERAL CONTRACTOR
	USES	RETROFIT STOREFRONT GLAZING TO BLOCK VISIBILITY
WT-9	**DISTRACTION BANDING**	
	VENDOR / INSTALLER	OWNER'S MERCH. VENDOR
	PRODUCT	SQUARES
	COLOR	FROSTED SQUARE PATTERN
	NOTES	NOT IN CONTRACT
		PRODUCT INSTALLED BY OWNER'S MERCH VENDOR. REFER TO STANDARDS FOR GC COORDINATION WITH VENDOR
WT-11	**SPANDREL GLAZING (SPECIAL- CASE USE ONLY)**	
	MFR.	VIRACON
	PRODUCT	VIRAPSAN
	COLOR	MEDIUM GRAY
	NOTES	LEAD FREE
		OPTION FOR FIELD APPLIED TREATMENT

	TRIM	
WB-402	**VINYL WALL BASE- STRAIGHT- AREAS WITH FLOORING**	
	MFR.	TARKETT
	PRODUCT	TIGHTLOCK
	COLOR	20 CHARCOAL WG
	PROFILE	4 1/2" STRAIGHT (TOELESS)
WB-403	**VINYL WALL BASE- COVE- AREAS WITH EXPOSED SLAB**	
	MFR.	TARKETT
	PRODUCT	TRADITIONAL WALL BASE
	COLOR	20 CHARCOAL WG
	PROFILE	4" COVE
	MILLWORK SURFACES	
SS-300	**SOLID SURFACE MATERIAL**	
	DESCRIPTION	1/2" ACRYLIC SOLID SURFACE WITH EASED EDGES
	MFR.	DUPONT CORIAN
	COLOR	SILVER BIRCH
	USES	WINDOW SILLS & MILLWORK SURFACES
PL-502	**MILLWORK LAMINATE**	
	DESCRIPTION	PLASTIC LAMINATE
	MFR.	WILSONART
	COLOR	NATURAL RECON 7996-38
	USES	MILLWORK, CHECK DESK
PL-503	**MILLWORK LAMINATE**	
	DESCRIPTION	PLASTIC LAMINATE
	MFR.	WILSONART
	COLOR	LECHE VESTA 4987K-07
	USES	BOH MILLWORK COUNTER SURFACE
WD-502	**WOOD ACCENT**	
	DESCRIPTION	ENGINEERED PLANK, RAKED PROFILE
	MFR.	PIONEER MILLWORKS
	PRODUCT	MODERN FARMHOUSE- CLEAN ASH
	SIZE	5 1/2" X 5/8" OR 4 1/2 x 5/8", FCS MIX
	TEXTURE	RAKED
	FINISH	CLEAR, POLY CLASS A FIRE RETARDANT
	USES	BOOTH MILLWORK
	NOTES	MATCHING 5/8" PERIMETER TRIM IN WIDTHS PER ELEVATIONS TO BE ORDERED THROUGH PIONEER MILLWORKS, SIZE MAY VARY BETWEEN 4 1/2" AND 5 1/2" WIDTH
WD-601	**VENEER PANELS (PREFERRED)**	
	MFR.	BROOKSIDE VENEERS
	PRODUCT	10.84 UNFINISHED
	SPECIES	PLANKED SLAVONY OAK
	FINISH	CLEAR MATTE UV INHIBITOR, LOW VOC FLAT ACRYLIC POLYURETHANE
	INSTALLER	G.C.
	USES	ARCHITECTURAL WALL MILLWORK
	NOTES	APPLIED TO FEATURE DIGITAL WALL
		REFER TO FINISH PLAN & ELEVATIONS
ALT WD-601	**VENEER PANELS (ALTERNATE)**	
	DESCRIPTION	WOOD VENEER
	SPECIES	WHITE OAK
	FINISH	QUARTER SAWN, SMOOTH FACE
		CLEAR MATTE UV INHIBITOR, LOW VOC FLAT ACRYLIC POLYURETHANE
	INSTALLER	G.C.
	USES	ARCHITECTURAL WALL MILLWORK
		APPLIED TO FEATURE DIGITAL WALL
		REFER TO FINISH PLAN & ELEVATIONS
	NOTE	SLIP MATCH
		FOR USE WHEN PREFERRED IS
	CARPET	
CPT-302	**WALK-OFF MAT**	
	MFR.	SBEMCO / MATTING BY DESIGN
	PRODUCT	ULTRA DRY PCR PET
	COLOR	PUMICE #620
	SIZE	2'X2' INTERLOCKING CARPET SQUARES (PREFERRED), BROADLOOM AVAILABLE WHEN REQUESTED
	BACKING	THERMAL BONDED, BLOWN PVC, ANTI-MICROBIAL PINK
	NOTES	PRESSURE SENSTIVE, RELEASABLE. LOW VOC ADHESIVE
		RIB DIRECTION TO RUN PARALLEL TO ENTRY DOOR. DO NOT QUARTER TURN TILES.
CPT-420	**GENERAL CARPET**	
	MFR.	INTERFACE
	PRODUCT	SHISHU STITCH
	COLOR	SHADE 106642
	SIZE	25CM X 1M TILE
	BACKING	CQUEST BIO X
	PATTERN	ASHLAR
	NOTES	
CPT-421	**MANUAL TRANSACTION AREA CARPET**	
	MFR.	INTERFACE
	PRODUCT	SHISHU STITCH
	COLOR	SHADE106642
	SIZE	25CM X 1M TILE
	BACKING	TRED-MOR MODULAR PVI
	PATTERN	ASHLAR
	NOTES	MODULAR PVI REQUIRES 2-STEP INSTALLATION SYSTEM
	AREA RUGS	

LRAR -4	**FLOATING CARPET- NAVY**	
	MFR.	INTERFACE
	PRODUCT	HAPTIC
	COLOR	INDIGO
	SIZE	PER PLAN
	BACKING	CQUEST BACKING
	EDGING	MFR.: JOHNSONITE PRODUCT # EG-XX-H COLOR: 40 BLACK B
	NOTES	EDGE BANDING/RUG KIT PROVIDED BY MANUFACTURER
	TILE	
T-402	**RESTROOM WALL & FLOOR TILE/ LOUNGE**	
	MFR.	STONE SOURCE
	PRODUCT	CREOS
	COLOR	DORIAN
	FINISH	NATURAL FINISH
	SIZE	12" x 24" x 3/8"
	GROUT	LATICRETE PERMACOLOR SELECT GROUT #24 "NATURAL GREY"
	GROUT JOINT	1/8"
	NOTES	MATCHING TILE WALL BASE AVAILABLE FOR RESTROOMS
T-501	**GENERAL FLOOR TILE**	
	MFR.	STONE SOURCE
	PRODUCT	CREOS
	COLOR	DORIAN
	FINISH	NATURAL FINISH
	SIZE	30" X 30" x 3/8"
	GROUT	LATICRETE PERMACOLOR SELECT GROUT #24 "NATURAL GREY"
	GROUT JOINT	1/8"
	MISCELLANEOUS FLOORING	
SC	**CONCRETE FLOOR PAINT (NON-CUSTOMER AREA)**	
	MFR.	BENJAMIN MOORE
	PRODUCT	COMMAND WATERBORNE ACRYLIC URETHANE
	COLOR	GRAY 2121-10
	FINISH	SATIN (CV292), SLIP-RESISTANT
SDT	**STATIC-DISSIPATIVE VINYL COMPOSITION TILE**	
	MFR.	ARMSTRONG FLOORING
	PRODUCT	EXCELON SDT #51951
	COLOR	ARMOR GRAY
	ADHESIVE	FULL SPREAD ADHESIVES S-202 STATIC DISSIPATIVE TILE ADHESIVE
	FINISH	APPLY ARMSTRONG S-392 STATIC DISSIPATIVE TILE POLISH
	SIZE	12" x 12" x 1/8"
	USES	BY EXCEPTION ONLY AT SITES WHERE FINISH FLOORING IS REQUIRED IN DATA ROOMS
	ACOUSTIC CEILING TILE AND GRID	
ACT-2 PREF. (INSTALL PER ERS-1222 FOR SEIMIC DESIGN CATEGORY D, SEE DETAIL 1/A5.4.1)	**2x2 ACOUSTIC CEILING (PREFERRED)**	
	MFR.	ARMSTRONG
	GRID	INTERLUDE XL HRC 9/16" DIMENSIONAL TEE SUSPENSION SYSTEM WITH 7/8" HEMMED ANGLE MOLDING, WHITE. TECH ZONE TYPE AT CEILINGS WITH CHANNELS
	2x2 TILES	CALLA #2824, 24"x24"x1", SQUARE TEGULAR EDGE, WHITE
	CHANNEL TILES	CALLA, MADE-TO-ORDER 4"x48"x1", SQUARE TEGULAR EDGE, WHITE
ACT-2 ALT. (INSTALL PER ERS-1222 FOR SEIMIC DESIGN CATEGORY D, SEE DETAIL 1/A5.4.1)	**2x2 ACOUSTIC CEILING (ALTERNATE)**	
	MFR.	USG
	GRID	IDENTITEE DXI 9/16" TEE SYSTEM WITH M9HRC 9/16" STANDARD WALL ANGLE, FLAT WHITE; LOGIX TYPE AT CEILINGS WITH CHANNELS
	2x2 TILES	MARS LOGIX #86585, 24"x24"x3/4", HIGH-NRC LOGIX CLIMAPLUS .75/35/.90, FINELINE BEVEL (FLB) EDGE, FLAT WHITE
	CHANNEL TILES	MARS LOGIX #86568, 4"x48"X3/4", HIGH-NRC LOGIX CLIMAPLUS .75/35/.90, FINELINE BEVEL (FLB) EDGE, FLAT WHITE
ACT-4 PREF (INSTALL PER ERS-1222 FOR SEIMIC DESIGN CATEGORY D, SEE DETAIL 1/A5.4.1)	**4x4 ACOUSTIC CEILING (PREFERRED)**	
	MFR.	USG
	GRID	IDENTITEE DXI 9/16" TEE SYSTEM WITH M9 9/16" STANDARD WALL ANGLE, FLAT WHITE; LOGIX COMPATIBLE
	4x4 TILES	MARS LOGIX #80281, 48"x48"x3/4", HIGH-NRC LOGIX CLIMAPLUS .75/35/.90, FINELINE BEVEL (FLB) EDGE, FLAT WHITE
	CHANNEL TILES	MARS LOGIX #80268, 4"x48"X3/4", HIGH-NRC LOGIX CLIMAPLUS .75/35/.90, FINELINE BEVEL (FLB) EDGE, FLAT WHITE
NOTES		
1	INTUMESCENT FLAME RETARDANT: FIREKOTE 100 AS MANUFACTURED BY UNIVERSAL FIRE SHIELD, CLEAR FINISH	

FLOORING TRANSITION FINISHES

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

INTERIOR FINISH SCHEDULE

TRANSACTION VESTIBULE	
FLOOR- FIELD TILE	T-501
WALK-OFF MAT	CPT-302
WALL BASE	WB-402
ATM WALL	WC-402
WALLS (NON-ATM)	PT-500
SUSPENDED GRID CEILING	ACT-4
SOFFITS- FACE AND BOTTOM	PT-500
LIGHT FIXTURES - GENERAL	L-500 (3W)
ILLUMINATED OCTAGON	PREFERRED
LOBBY	
FLOOR - FIELD TILE	T-501
WALL BASE	WB-402
WALLS - GENERAL	PT-500
WALLS - COMMUNITY, WELCOME, A/V	PT-500
WALL WITH ATM + MERCH, ALL THREE SURFACES WRAPPED	PT-501
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 (3W)
LIGHT FIXTURES - CEILING ACCENT	L-11
WINDOW SHADES (NOTE 6B)	WT-1 / WT-2
LIVING ROOM	
FLOOR - AREA RUG	LRAR-4
WALLS - GENERAL	PT-500
FEATURE WALL PANELS	WD-601
LIGHT FIXTURES - GENERAL	L-500 (3W)
MANUAL TRANSACTIONS	
FLOOR	CPT-421
WALL BASE	WB-402
WALLS - GENERAL	PT-500
WALLS - MANUAL TRANSACTION BACK WALL	PT-500
WALLS - ACCENT	(NOTE 13)
MILLWORK - GENERAL	PL-502/ PL-503
MANUAL TRANSACTION MODULE FRONT PANELS	(NOTE 5)
MANUAL TRANSACTION MODULE COUNTER	(NOTE 5)
CEILING	ACT-2
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
LIGHT FIXTURES - GENERAL	L-11 / L-500 (3W)
PRIVATE CONSULTATION SPACE (PCS)	
FLOOR - GENERAL	CPT-420
WALL BASE	WB-402
WALLS	PT-500
WALLS - ACCENT	PT-501 (NOTE 12)
WALLS - PARTIAL HEIGHT	PT-500
GLAZING HARDWARE	DEMOUNTABLE WALL SYTEM (NOTE 12)
DOOR CLOSER COVER	DEMOUNTABLE WALL SYTEM (NOTE 12)
CEILING	ACT-2
PCS/CMS BULKHEADS	PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH WITH WALL	PT-500
LIGHT FIXTURES - GENERAL	L-500 (3W)
LIGHT FIXTURES - PENDANT	L-410
WINDOW SHADES: PCS / CMS (NOTE 6B)	WT-1 / WT-2
CONFERENCE ROOM	
FLOOR - GENERAL	CPT-420
WALL BASE	WB-402
WALLS	PT-500
WALLS - ACCENT	PT-501 (NOTE 12)
WALLS - PARTIAL HEIGHT	(NOTE 12)
GLAZING HARDWARE	DEMOUNTABLE WALL SYTEM (NOTE 12)
DOOR CLOSER COVER	DEMOUNTABLE WALL SYTEM (NOTE 12)
CEILING	ACT-2
CONFERENCE BULKHEADS	PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH w/ WALL	PT-500
LIGHT FIXTURES - GENERAL	L-11
LIGHT FIXTURES - PENDANT	L-413
WINDOW SHADES: CONFERENCE (NOTE 6B)	WT-7
BOOTH	
FLOOR	T-501
WALL BASE	WB-402
WALLS - ACCENT PAINT	PT-501 (NOTE 12)
WALLS - WOOD ACCENT	WD-502
CEILING	WD-502
BOOTH BULKHEADS	PT-500
SOFFITS - BOTTOM AND FACES NOT FLUSH w/ WALL	PT-500
LIGHT FIXTURES - GENERAL	L-11
LIGHT FIXTURES - PENDANT	L-411
WINDOW SHADES: PCS / CMS (NOTE 6B)	WT-1 / WT-2
DINING ROOM TABLE	
FLOOR (DAB ON HARD SURFACE)	T-501
WALL BASE	WB-402
WALLS - GENERAL	PT-500
WALLS - COMMUNITY, WELCOME, A/V	PT-500
WALLS - PARTIAL HEIGHT	PT-500
CEILING	ACT-4
LIGHT FIXTURES - GENERAL	L-500 (3W)
SDB CHEST ROOM OR VAULT	
FLOOR	CPT-420
WALL BASE	WB-402
WALLS - GENERAL	PT-500
CEILING	ACT-2
LIGHT FIXTURES	L-500 (3W)

SDB VIEWING ROOM	
FLOOR	CPT-420
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-500 (3W)
HALLWAY	
FLOOR - FIELD	T-402
WALL BASE	WB-402
WALLS - GENERAL	PT-500
CEILING	ACT-2
LIGHT FIXTURES- GENERAL	L-2 (20W)
RESTROOMS (NOTE 6A)	
FLOOR - FIELD	T-402
WALL BASE	WB-402
WALLS - GENERAL	PT-500
WALL - VANITY	PT-500
WALL TILE	T-402
CEILING	ACT-2
LIGHT FIXTURES - GENERAL	L-2 (20W)
WORK / PRINT / FILE / STORAGE ROOMS, LTOS AND CASH ROOMS SEPARATE FROM MANUAL TRANSACTION AREAS	
FLOOR	CPT-420
WALL BASE	WB-402
WALLS	PT-500
MILLWORK	PL-502/ PL-503
CEILING	ACT-2
LIGHT FIXTURES	L-2 (20W)
LAO / CASH ROOMS - OPEN TO MANUAL TRANSACTION AREAS	
FLOOR	CPT-420
WALL BASE	WB-402
WALLS	PT-500
MILLWORK	PL-502/ PL-503
CEILING	ACT-2
LIGHT FIXTURES	L-2 (20W)
LOUNGE	
FLOOR	T-402
WALL BASE	WB-402
WALLS	PT-500
MILLWORK COUNTER	PL-503
MILLWORK	PL-502
CEILING	ACT-2
LIGHT FIXTURES	L-2 (20W)
JANITOR / DATA / ELECTRICAL/ LADDER / ATM ROOMS	
FLOOR	T-402 (NOTE 14)
WALL BASE	WB-403
WALLS (NOTE 8)	PT-500
FLOOR SINK WALLS (NOTE 6)	FRP-1
LADDER AREA WALLS (NOTE 6)	FRP-1
CEILING	ACT-2 U.N.O.
LIGHT FIXTURES	L-2 (20W) U.N.O.

FINISH SCHEDULE NOTES:

	REFER TO INTERIOR ELEVATIONS, FLOOR PLANS, FINISH PLANS AND REFLECTED CEILING PLANS- DRAWING NOTES SUPERSEDE SCHEDULES.
1	PAINT ALL DOORS AND FRAMES TO MATCH ADJACENT WALL COLOR IN SATIN FINISH UNLESS OTHERWISE NOTED.
2	NOT USED.
3	PAINT FACES AND BOTTOMS OF GYPSUM BOARD BULKHEADS TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED.
4	LAMINATE, FABRIC OR SOLID SURFACE PROVIDED AND INSTALLED BY FURNITURE VENDOR
5	FRP FINISH EXTENTS: * LADDER AREA: ALL WALL SURFACES BEHIND AND WITHIN 12" EACH SIDE OF LADDER, SIDE WALLS WITHIN 12" OF EACH LADDER SIDE FOR A MINIMUM WITH OF 48" AND WALLS OPPOSITE LADDER WITHIN 48", 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 OR 6'-0", WHICHEVER IS GREATER. REFER TO INTERIOR ELEVATIONS.
6A	RESTROOM WALL TILE FINISH EXTENTS: PROVIDE ONLY IF REQUIRED BY JURISDICTIONS HAVING AUTHORITY, TO THE MINIMUM HEIGHT REQUIRED, CONTINUOUS AT ALL WALLS REGARDLESS OF CODE REQUIREMENT - REFER TO INTERIOR ELEVATIONS.
6B	ROLLER SHADE FABRIC SELECTION VARIES BY REGION AND CLIMATE- VERIFY SELECTION WITH OWNER; ALL CONFERENCE ROOMS TO RECEIVE DOUBLE ROLLER SHADE WT-7.
7	3/4" x 4' x 8' HIGH FIRE-RETARDANT PLYWD ON GWB IN DATA RM PER PLAN - PAINT PT-207 (RATED LABEL TO BE VISIBLE)
8	PAINT INTERIOR DIFFUSERS, REGISTERS AND LOUVERS TO MATCH ADJACENT SURFACE
9	PAINT LOBBY FACING PCS SOFFITS ACCENT PAINT WHEN INSTALLING CPC LETTERSET UNLESS OTHERWISE NOTED.
10	INSTALL FINISH CEILING GRID AS HIGH AS POSSIBLE IN UTILITY SPACES
11	DEMOUNTABLE PARTITION SYSTEMS: ARTWORK / MARKETING NOT TO BE INSTALLED ON WALL UNLESS OTHERWISE NOTED. REFER TO PROTOTYPE SET FOR ACCENT PAINT LOCATION(S)
12	ACCENT WALLS: * EXTENTS: ACCENT PAINTS TO TERMINATE AT INTERIOR CORNER(S), UNLESS OTHERWISE NOTED. * LOCATION: PLANS WITH GYPSUM WALL IN MEETING SPACES - REFER TO FLOOR PLAN AND ELEVATIONS
13	FINISH: DARK ACCENT PAINT(S) REQUIRE LEVEL 5 FINISH
14	JANITOR ROOM SHALL UTILIZE THE SAME FLOOR FINISH AS THE ADJACENT ROOM TO AVOID THRESHOLD. IF ADJACENT ROOM IS CARPET, THEN THE JANITOR ROOM SHALL UTILIZE SC FLOOR FINISH.
15	WINDOW SHADE ENCLOSURES AND POCKETS: * WINDOW SHADE HOUSINGS AND POCKETS INTEGRATED WITH 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-MOUNT WINDOW SHADE HOUSINGS SHALL BE PROVIDED BY THE WINDOW SHADE VENDOR. FINISH SHALL MATCH THE STOREFRONT GLAZING SYSTEM FINISH.

PREPARED FOR:

CHASE

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

INTERIOR FINISH & FINISH MATERIAL SCHEDULE

SHEET NUMBER

A3.3.1

FURNITURE SCHEDULE

GROUP	OGL TAG	DESCRIPTION	VENDOR	VENDOR #	MANUFACTURER	MODEL	FINISH	FURNISHED BY				INSTALLED BY			
								OWNER	GC	EQUIP. VENDOR	FURN. VENDOR	OWNER	GC	EQUIP. VENDOR	FURN. VENDOR
FILES	2AF	30" 2-DRAWER LATERAL FILE	FURNITURE	2A1	STEELCASE	900 SERIES	MF-1				■				■
	2AP	15" PEDESTAL BBF	FURNITURE	2A1	STEELCASE	900 SERIES	MF-1				■				■
	2AW	30" 2-DRAWER LATERAL FILE W/ WOOD TOP	FURNITURE	2A1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	2BF	36" 2-DRAWER LATERAL FILE	FURNITURE	2B1	STEELCASE	900 SERIES	MF-1				■				■
	2BP	15" PEDESTAL BBF	FURNITURE	2B1	STEELCASE	900 SERIES	MF-1				■				■
	2BW	36" 2-DRAWER LATERAL FILE W/ WOOD TOP	FURNITURE	2B1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	2CF	42" 2-DRAWER LATERAL FILE	FURNITURE	2C1	STEELCASE	900 SERIES	MF-1				■				■
	2CP	15" PEDESTAL BBF	FURNITURE	2C1	STEELCASE	900 SERIES	MF-1				■				■
	2CW	42" 2-DRAWER LATERAL FILE W/ WOOD TOP	FURNITURE	2C1W	STEELCASE	901 SERIES	OAK COMPOSITE				■				■
	3A	30" 3-DRAWER LATERAL FILE	FURNITURE	3A1	STEELCASE	900 SERIES	MF-1				■				■
	3B	36" 3-DRAWER LATERAL FILE	FURNITURE	3B1	STEELCASE	900 SERIES	MF-1				■				■
	3C	42" 3-DRAWER LATERAL FILE	FURNITURE	3C1	STEELCASE	900 SERIES	MF-1				■				■
	5A	30" 5-DRAWER LATERAL FILE	FURNITURE	5A1	STEELCASE	900 SERIES	MF-1				■				■
	5B	36" 5-DRAWER LATERAL FILE	FURNITURE	5B1	STEELCASE	900 SERIES	MF-1				■				■
	5C	42" 5-DRAWER LATERAL FILE	FURNITURE	5C1	STEELCASE	900 SERIES	MF-1				■				■
BREAK ROOM	LC	6-TIER LOCKERS (12"W x 15"D x 78"H)	GC	---	GLOBAL INDUSTRIAL	CAPITAL BOX #WB602971GY	GRAY		■				■		
	BT4-A	LOUNGE TABLE, 36" DIA.	FURNITURE	FT-14	STEELCASE	853600	ARCTIC WHITE				■				■
	BT4-B	LOUNGE TABLE, 48" DIA.	FURNITURE	FT-14 48	STEELCASE	853600	ARCTIC WHITE				■				■
	BT4-C	LOUNGE TABLE, 60x35	FURNITURE	FT-14 60X35	STEELCASE	853600	ARCTIC WHITE				■				■
	BS	LOUNGE CHAIR	FURNITURE	FS-14	TURNSTONE	TS37101	BLACK				■				■
	---	TALL KITCHEN TRASH RECEPTACLE	CHASE BRANCH PLANNING	---	---	---	---	■				■			
JANITOR'S CLOSET / GENERAL STORAGE	WS-1	WIRE SHELVING - HANG TRACK	---	---	CLOSETMAID	282400, 282600, 283600	WHITE		■				■		
		WIRE SHELVING - STANDARD	---	---	CLOSETMAID	280000, 280100, 280800, 281200, 280400	WHITE		■				■		
		WIRE SHELVING - 12" SHELF ("SUPERSLIDE")	---	---	CLOSETMAID	471400, 471700, 471800, 471900	WHITE		■				■		
		WIRE SHELVING - 12" BRACKET	---	---	CLOSETMAID	5285300	WHITE		■				■		
		WIRE SHELVING - 16" SHELF ("CLOSE MESH")	---	---	CLOSETMAID	139500, 3731800	WHITE		■				■		
		WIRE SHELVING - 16" BRACKET	---	---	CLOSETMAID	5285400	WHITE		■				■		
LIVING ROOM/ LOBBY	OT-20A	KIMBERLY TABLE- 36"DIA X 21"H	FURNITURE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20B	KIMBERLY TABLE- 30"DIA X 18"H	FURNITURE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20C	KIMBERLY TABLE- 25"DIA X 15"H	FURNITURE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-20D	KIMBERLY TABLE- 20"DIA X 18"H	FURNITURE		STEELCASE	CUSTOM	PLANKED OAK				■				■
	OT-21	GINGKO WIRE CAFÉ TABLE- 30" DIA	FURNITURE		DAVIS	GINGKO	PLANKED OAK TOP, BLACK BASE								
	CH-322	ALWAYS LOUNGE CHAIR - 16.5" SEAT	FURNITURE		NAUGHTONE	ALWAYS	GEIGER: IOTA- NAVY, BLACK BASE				■				■
	CH322 A	ALWAYS LOUNGE CHAIR - 18" SEAT	FURNITURE		NAUGHTONE	ALWAYS	GEIGER: IOTA- NAVY, BLACK BASE				■				■
	CH-322 B	ALWAYS LOUNGE CHAIR - BASE KIT - FOR RETROFIT OF PRIOR 16" HIGH SEAT	FURNITURE		NAUGHTONE	ALWAYS	BLACK BASE - TO RETROFIT EXISTING CH-322				■				■
	CH-330	STYLEX SHARE SOFA- 18" HIGH SEAT, CURVED 1/2 UPHOLSTERED, 1/2 VINYL	FURNITURE		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	FURNITURE		NAUGHTONE	ALWAYS	DESIGNTEX: EVERYWHERE TEXTURE- STORM				■				■
	PF	WHIMSY POUF	FURNITURE		NATIONAL	WHIMSY	BLACK STRAP HANDLE, UPHOLSTERY: DESIGNTEX: SPANDAU-COGNAC				■				■
	FS-2	STOOL-CAFÉ HEIGHT	FURNITURE		GORDON	FORMULA	BLACK MATTE FRAME, UPHOLSTERY: DESIGNTEX: SPANDAU- COGNAC				■				■
	DRT	DINING ROOM TABLE (4 OR 6 PERSON)	CBBE	34x72,34x96	CBBE	CUSTOM	STAIN TO MATCH: OAK				■				■
MISC.	CT	CAFÉ TABLE- HIGH TOP	FURNITURE	30D, 36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE				■				■
	WT	WORK TABLE- DESK HEIGHT	FURNITURE	36D	COALESSE	MONTARA	WHITE TOP, BLACK BASE				■				■
	BT-2	BOOTH TABLE WITH POWER MODULE	FURNITURE	57X30, 57X36, 57X42, 57X48	COALESSE	LAGUNITAS	WHITE TOP, BLACK BASE				■				■
	BB-1	BOOTH BENCH (QTY- 2 BENCHES)	CBBE		CBBE	CUSTOM	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO-KEYSTONE, BLACK FEET				■				■
	BB-2	DROP IN BOOTH	FURNITURE		NATIONAL	FRINGE	BACK OF BOOTH UPHOLSTERY: DESIGNTEX- WOOLISH: OSPREY, BOOTH SEAT UPHOLSTERY: DESIGNTEX: SORANO-KEYSTONE, BLACK FEET				■				■
	EC	EVENT CHAIR	EMPIRE		AIS	TRIAD	BLACK, STACKABLE				■				■
	ECD	EVENT CHAIR DOLLY (30 CHAIR MAX/DOLLY)	EMPIRE	24 x 47	AIS	TRIAD	BLACK SEAT, SILVER BASE				■				■
	TD	TRAINING DESK	FURNITURE	48X30, 60X30, 72X30	COALESSE	AKIRA	ARCTIC WHITE SURFACE, BLACK BASE/CASTERS				■				■
	TC	TRAINING CHAIR	FURNITURE		COALESSE	KART	BLACK SHELL/SEAT, BLACK BASE/CASTERS, NESTING				■				■
MANUAL TRANSACTIONS	MST-3	MANUAL TRANSACTION MODULE - MST	FURNITURE	TC 1M	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	AST-3	MANUAL TRANSACTION MODULE - LEFT AST	FURNITURE	TC 1AL	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	AST-3	MANUAL TRANSACTION MODULE - RIGHT AST	FURNITURE	TC 1A	STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE				■				■
	TS	TELLER STOOL (1 PER ACTIVE STATION)	FURNITURE		AIS	TRIAD	BLACK SHELL, CHROME BASE				■				■
CONFERENCE	D-401D	CONF. TABLE WITH X BASE (72X36)	FURNITURE	72X36	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK "X" BASE				■				■
	D-401E	CONF. TABLE WITH X BASE(84X36)	FURNITURE	84X36	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK "X" BASE				■				■
	D-401F	CONF. TABLE WITH X BASE (96X48)	FURNITURE	96X48	STEELCASE/GORDON	---	QUARTER CUT OAK COMPOSITE, BLACK "X" BASE				■				■
	CC5	CONF CREDENZA W/ WOOD TOP (60")	FURNITURE	CCREDDW	STEELCASE	---	QUARTER CUT OAK COMPOSITE				■				■
	CC6	CONF CREDENZA W/ CORIAN TOP (60")	FURNITURE	CCREDPWC/CCREDDWC	STEELCASE	---	QUARTER CUT OAK COMPOSITE, SILVER BIRCH CORIAN				■				■
	CC7	CONF CREDENZA W/ CORIAN TOP (72")	FURNITURE	CCREDPWC/CCREDDWC	STEELCASE	---	QUARTER CUT OAK COMPOSITE, SILVER BIRCH CORIAN				■				■
PRIVATE CONSULTATION SPACE	D-400A/DB-400	BANKER DESK, WOOD TOP, X BASE, (36R)	FURNITURE	36DIA	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401A/DB-400	BANKER DESK, WOOD TOP, X BASE, (42R)	FURNITURE	42DIA	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401B/DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (54X36)	FURNITURE	54X36	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	D-401C/DB-400	BANKER DESK, OVAL, WOOD TOP, X BASE, (60x36)	FURNITURE	60X36	STEELCASE	---	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	HAD-2	OLOGY HEIGHT ADJUSTABLE DESK	FURNITURE		STEELCASE	OLOGY	QUARTER CUT OAK COMPOSITE TOP, BLACK ADJUSTABLE BASE				■				■
	WPD-6A	BANKER DESK PEDESTAL FILE- 18"	FURNITURE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-6B	BANKER DESK PEDESTAL FILE- 30"	FURNITURE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-7A	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE- 54"	FURNITURE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-7B	LATERAL FILE WITH CPU CABINET- MEDIUM OFFICE- 48"	FURNITURE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
	WPD-8	IWS TALL PEDESTAL FILE	FURNITURE		STEELCASE	CUSTOM	QUARTER CUT OAK COMPOSITE, BLACK HARDWARE				■				■
DESK, CONFERENCE AND GUEST CHAIRS	DS	BANKER DESK AND LAO CHAIR	FURNITURE	FS-11O	HUMANSCALE	LIBERTY OCEAN	BLACK FRAME, SEAT: FOURTIS, GRANITE #FT12, MESH: CATENA, BLACK #J10				■				■
	CH-310	BINDU CONFERENCE CHAIR- LOW BACK , 4 LEGS	FURNITURE		COALESSE	BINDU	DESIGNTEX: BARK CLOTH-DARK CHARCOAL, BLACK BASE, 4 LEGS				■				■
	CH-311	BINDU CONFERENCE CHAIR- LOW BACK ON CASTERS	FURNITURE		COALESSE	BINDU	DESIGNTEX: BARK CLOTH-DARK CHARCOAL, BLACK BASE ON CASTERS				■				■
SDB	CS-3	SDB CARREL / VIEWING ROOM	FURNITURE	TRADCARREL-C	STEELCASE	CARREL	QUARTER CUT OAK COMPOSITE				■				■
	CH-320	SDB ARMLESS CHAIR	FURNITURE		STEELCASE	FORMULA	DESIGNTEX: BARKCLOTH-DARK CHARCOAL, BLACK SLED BASE				■				■

OFFICE EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	FURNISHED BY				INSTALLED BY				NOTES
					OWNER	GC	EQUIP VENDOR	FURN VENDOR	OWNER	GC	EQUIP VENDOR	FURN VENDOR	
OE-01-BW	MULTI-FUNCTIONAL DEVICE (MFD) - B/W	LEXMARK	25B0000	PUTTY	■				■				
	SWIVEL BASE	LEXMARK	40G0855	BLACK	■				■				
	5.1" SPACER	LEXMARK	40G0854	PUTTY	■				■				
	550 SHEET DRAWER	LEXMARK	40G0802	PUTTY	■				■				
OE-01-C	MULTI-FUNCTIONAL DEVICE (MFD) - COLOR	LEXMARK	42K0177	PUTTY	■				■				
	SWIVEL BASE	LEXMARK	21K2501	BLACK	■				■				
	5.1" SPACER	LEXMARK	40G0854	PUTTY	■				■				
	550 SHEET DRAWER	LEXMARK	21K0567	PUTTY	■				■				
OE-02	NOT USED												
OE-03	MICR ST921 PRINTER	LEXMARK	K101-0010000	---	■				■				
	MICR ST921 LOCKING DRAWER	LEXMARK	ST921	---	■				■				
	MICR 9720 UNDERCOUNTER STAND	BRETFORD	CK15-BK	BLACK	■				■				
OE-04	ADA MONITOR & KEYBOARD STAND	HUMANSCALE	SOR12311MF1	BLACK				■				■	SIT/STAND COMBO SPEC IN PRODUCT INFO FOLDER
OE-05	NOT USED												
OE-06	23" MONITOR AND STAND	HP	1FH48A8#ABA	SILVER	■				■				ALL MONITORS EXCEPT AST
	PRIVACY SCREEN FILTER	TARGUS	AST127MGLZ	---	■				■				
	SOUND BAR	TBD	TBD	WHITE	■				■				
OE-07	TELLER CPU	HP	5GP85US#ABA	BLACK	■				■				
OE-08	WIRED KEYBOARD & MOUSE	LOGITECH	MK520	WHITE	■				■				
OE-09	NOT USED												
OE-10	NOT USED												
OE-11	ACCESS TELLER MONITOR STAND	HUMANSCALE	QSBH30FNN	BLACK				■					
OE-12	DESK MONITOR ARM	HUMANSCALE	MFLEX (CHASE SPECIFIED)	GRAY				■				■	POLE-MOUNT THROUGH GROMMET, MFLEX WITH EXTRA 8" ARM EXTENSION
OE-13	NOT USED												
OE-14	23" MONITOR LESS STAND	TBD	TBD	WHITE	■				■				AST MONITOR
	PRIVACY SCREEN FILTER	TARGUS	AST127MGLZ	---	■				■				
	SOUND BAR	TBD	TBD	WHITE	■				■				
OE-15	VDI TERMINAL	HP	4DT99UC#ABA-CUSTCHS	SILVER	■				■				
	VDI TERMINAL ADAPTER			---	■				■				
OE-16	WIRELESS KEYBOARD AND MOUSE	DELL/ LENOVO	580-ADTY	BLACK/SILVER	■				■				
OE-17	NOT USED												
OE-18	CPU/VDI UNDER SURFACE MOUNT	HUMANSCALE	CPU200	WHITE BR ALUM.				■				■	UNDER SURFACE MOUNT WITH 360 DEGREE SWIVEL CAPABILITY
OE-19	NOT USED												
OE-20	NOT USED												
OE-21	NOT USED												
OE-22	NOT USED												
OE-23	NOT USED												
OE-24A	NOT USED												
OE-24B	NOT USED												
OE-24C	NOT USED												
OE-25	NOT USED												
OE-26	NOT USED												
OE-27	NOT USED												
OE-28	PHONE	CISCO	IP 7962	BLACK	■					■			
OE-28-V	PHONE - VIDEO PHONE	CISCO	CP-8865-K9	CHARCOAL	■					■			
OE-29	CUSTOMER UNIVERSAL CHARGING STATION	CHARGE TECH	CHW2-CHG	BLACK	■					■			ONLY USED IN BOOTHS

FURNITURE SCHEDULE (PCS-NEW)

GROUP	OGL TAG	DESCRIPTION	VENDOR	VENDOR #	MANUFACTURER	MODEL	FINISH	FURNISHED BY				INSTALLED BY			
								OWNER	GC	EQUIP VENDOR	FURN. VENDOR	OWNER	GC	EQUIP. VENDOR	FURN. VENDOR
PRIVATE CONSULTATION SPACE	FS-110	OCEAN CHAIR	FURNITURE		HUMANSCALE	---	---				■				■
	CH-400R	PRELUDE ARMLESS 4 LEGGED KAVIR CHARCOAL WITH ALTA	FURNITURE		BERNHARDT	---	---				■				■
	CH-401R	PRELUDE WITH ARMS 4 LEGGED KAVIR CHARCOAL WITH ALTA	FURNITURE		BERNHARDT	---	---				■				■
	CH-402R	PRELUDE SWIVEL BASE KAVIR CHARCOAL WITH ALTA	FURNITURE		BERNHARDT	---	---				■				■
	D-L64 OC	DESK WITH LH 42" W HEIGHT ADJUTABLE RETURN INCLUDES MA FINISH	FURNITURE	64"	STEELCASE	---	NATURAL RECON				■				■
	D-L728P OC	DESK WITH LH 42" W HEIGHT ADJUTABLE RETURN INCLUDES MA AND BACK PANEL FINISH	FURNITURE	72"	STEELCASE	---	NATURAL RECON				■				■
	WPD-8A LOC	1.5H BOX/FILE PEDESTAL LAMINATE	FURNITURE	15"X24"	STEELCASE	---	NATURAL RECON				■				■

OFFICE EQUIPMENT BY PROGRAMMATIC ELEMENT

PROGRAMMATIC ELEMENT				
ABBREV.	DESCRIPTION	TAG	QTY.	DESCRIPTION
MST, PST, AT	MERCHANT SERVICES TELLER, PERSONAL SERVICES TELLER, OR ACCESS TELLER	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
AST	ACCESSIBLE SERVICES TELLER	OE-04	1	ADA MONITOR & KEYBOARD STAND (NOTE 1)
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
		OE-14	1	23" MONITOR - LESS STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-18	1	CPU/VDI UNDER SURFACE MOUNT
LAO	LEAD ASSOCIATE OPERATIONS	OE-05	1	NOT USED
		OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-07	1	TELLER CPU
		OE-08	1	WIRED KEYBOARD & MOUSE
		OE-10	1	WIRE MANAGEMENT KIT
		OE-18	1	CPU/VDI UNDER SURFACE MOUNT
DRT	DINING ROOM TABLE	OE-29	1	NOT USED
BOOTH		OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-18	1	CPU/VDI UNDER SURFACE MOUNT
		OE-28	1	PHONE
		OE-29	1	CUSTOMER UNIVERSAL CHARGING STATION
CCS	CASUAL CONSULTATION SPACE	OE-06	1	23" MONITOR
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM (NOTE 1)
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE

PCS	PRIVATE CONSULTATION SPACE	OE-06	1	23" MONITOR
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM (NOTES 1, 2, 4)
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE
	CONFERENCE ROOM / MARKET CONFERENCE SPACE	OE-06	1	23" MONITOR
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-12	1	MONITOR ARM (NOTE 1)
		OE-15	1	VDI TERMINAL (NOTE 3)
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE
IWS	INDIVIDUAL WORK SPACE	OE-06	1	23" MONITOR AND STAND
			1	PRIVACY SCREEN FILTER
			1	SOUND BAR
		OE-15	1	VDI TERMINAL
			1	VDI TERMINAL ADAPTER
		OE-16	1	WIRELESS KEYBOARD AND MOUSE
		OE-27	1	PLATFORM STATION WIRED 10-KEY KEYPAD
		OE-28	1	PHONE

NOTES

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

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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ROY PEDRO ARCHITECT

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

FURNITURE & OFFICE EQUIPMENT SCHEDULE

SHEET NUMBER

A3.3.2

MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	FURNISHED BY				INSTALLED BY				NOTES
					OWNER	GC	EQUIP VENDOR	FURN VENDOR	OWNER	GC	EQUIP VENDOR	FURN VENDOR	
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		■				■			
ME-05	EXTERIOR WASTE RECEPTACLE	RUBBERMAID	FGS3ETBKPL	BLACK		■				■			
	ANCHOR KIT	HILTI	3.3.8 KWIK Bolt 3	N/A		■				■			
ME-06	MUSIC PLAYER AND SPEAKERS	MOOD MEDIA	PROFUSION IS	BLACK	■				■				LOCATE IN PRINT/FILE ROOM
ME-07	WIRELESS SDB SERVICE ENUNCIATOR SYSTEM	NUTONE	LA223WH			■				■			"OR EQUAL" SUBSTITUTIONS PERMITTED BASED ON LOCAL AVAILABILITY. INSTALL 1 PUSH BUTTON AT EACH SDB VIEWING STATION. DELIVER ENUNCIATOR TO CHASE REAL ESTATE PROJECT MANAGER AT PROJECT CLOSE-OUT. MOUNT BUTTON 44" A.F.F.
ME-08	NOT USED												
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-10	ME-10A: TRIPLE-COMPARTMENT REFUSE BIN	WASTE WISE PRODUCTS INC.	RC-1528-3-SS-NY WITH CUSTOM LABELS			■				■			AT ALL PROJECTS EXCEPT WHERE LARGE-CAPACITY TRIPLE BIN (ME-10G) PROVIDED; ONE REQD. AT EACH VESTIBULE AND LOBBY OR SIMILAR AREA; LABELS: PAPER, TRASH, METAL/GLASS/PLASTIC
	ME-10B: RECYCLING INSTRUCTIONAL SIGN	NA	NA	NA		■				■			ONLY IN JURISDICTIONS WHERE REQUIRED AT BINS AND SORTING STATION- VERIFY REQUIREMENTS WITH LOCAL AHJ
	ME-10C: RECYCLING COMPLIANCE PLAC/CARD	NA	NA	NA	■				■				NYC PROJECTS ONLY; PROVIDED BY REFUSE HAULER AND INSTALLED BY J.L.L. FACILITIES
	ME-10D: 3-BIN SORTING STATION	RUBBERMAID	#2007917 (LANDFILL, PAPER, BOTTLES/CANS)	NA		■				■			AT ALL PROJECTS
	ME-10E: LARGE CAPACITY SINGLE-COMPARTMENT REFUSE BIN (3 AT EACH LOCATION IDENTIFIED ON PLAN)	WASTE WISE PRODUCTS INC.	3x EVOLVE CUBE SLIM	BLACK/ PEWTER		■				■			ONLY AT PROJECTS WITH >2 ATMs IN A SINGLE VESTIBULE, OR RELO PROJECTS WITH > 12,000 WALK-UP ATM TRANSACTIONS PER MONTH, OR WHEN REQUESTED BY FACILITIES MANAGER; ONE REQD. AT EACH VESTIBULE AND LOBBY OR SIMILAR AREA; LABELS: PAPER, WASTE, RECYCLABLES
	ME-10F: BATTERY RECYCLING CONTAINER	REPUBLIC SERVICES	PACKBACK 1.25 GAL	NA		■				■			1.25 GAL./30 LB. DRY CELL BATTERY RECEPTACLE WITH PRE-PAID SHIPPING AND REPLACEMENT INSTRUCTIONS; ORDER FROM HTTPS://PACKBACK.REPUBLICSERVICES.COM/ PACK-BACK.
ME-11	TABLET CHARGING CABINET	KENSINGTON	K678625AMA-CUSTBO	BLACK	■				■				PROVIDED AND INSTALLED BY CHASE GTI
ME-12	RECESSED ATM KEY BOX	SUPRA SYSTEMS	TRAC-VAULT BT SMART	BLACK			■			■			KEY BOX IS PRE-PURCHASED BY OWNER. GC TO REQUEST DELIVERY BY EMAILING VENDOR CONTACTS WITH SUBJECT LINE "RECESSED SUPRA TRAC-VAULT BT SMART BOX REQUEST". INCLUDE PROJECT NAME, DELIVERY ADDRESS AND CERP NUMBER IN THE BODY OF THE EMAIL.
ME-13	RECESSED OWNER'S ACCESS KEY BOX	MASTERLOCK	5441D BLUETOOTH WALL MOUNT LOCK BOX	BLACK	■				■				KEY BOX IS TO BE PURCHASED AND INSTALLED BY FM DURING TURNOVER.
ME-14	RECESSED EMERGENCY ACCESS KEY BOX		BASIC OR LOCAL AHJ SPECIFIED KNOXBOX	BLACK		■				■			ONLY WHERE REQUIRED BY LOCAL CODE- VERIFY PRODUCT SPEC. REQD. W/ LOCAL AHJ. IF AHJ DOES NOT SPECIFY, USE BASIC KNOXBOX.

APPLIANCE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	REQUIREMENTS	FINISH	FURNISHED BY		INSTALLED BY		NOTES
						OWNER	GC	OWNER	GC	
A-01	1.6 CU. FT. MICROWAVE	WHIRLPOOL	WMC30516HVSKU	ADA-COMPLIANT	BLACK		■		■	ALT. 1.4+ CF ADA-COMPLIANT SUBSTITUTIONS PERMITTED
A-02	NOT USED	---	---	---	---	---	---	---	---	---
A-03	FULL-SIZE REFRIGERATOR	FRIGIDAIRE	FFHT1835VB	ADA-COMPLIANT ENERGY STAR	BLACK		■		■	ALT 18+ CF TOP-FREEZER SUBSTITUTIONS PERMITTED MUST BE ENERGY STAR CERTIFIED
A-04	UNDERCOUNTER REFRIGERATOR	WESTINGHOUSE - COMMERCIAL COOL	CCR45B	ADA-COMPLIANT	BLACK		■		■	ALT. 4.4+ <CF <32.5?I SUBSTITUTIONS PERMITTED MUST BE ENERGY STAR CERTIFIED
		IGLOO	FR464	ADA-COMPLIANT	WH OR SS		■		■	
		HAIER	HC46SF10SV	ADA-COMPLIANT	SS		■		■	
A-05	WATER PURIFIER	BY OWNER	---		---	■		■		
A-06	COFFEE MAKER	BY OWNER	---		---	■		■		G.C. TO PROVIDE 1/4" COPPER WATER SUPPLY FOR FINAL CONNECTION BY OWNER

BANK EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT (NOTE 3)	FINISH	WEIGHT (NOTE 1)	ELECTRICAL REQUIREMENTS	FURNISHED BY						INSTALLED BY						NOTES
							OWNER	GC	ATM VENDOR	SIGNAGE VENDOR	BANK EQUIP. VENDOR	FURN VENDOR	OWNER	GC	ATM RIGGER	SIGNAGE VENDOR	BANK EQUIP. VENDOR	FURN VENDOR	
BE-01A	ATM, WALK-UP, EXTERIOR, THROUGH-WALL	HYOSUNG	MX 7800 TR	---	1522 LB	120V / 20A DED.			■						■				
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4	---	NA	120V / 3A				■						■			2
BE-01B	ATM, WALK-UP, INTERIOR, THROUGH-WALL	HYOSUNG	MX 7800 TR	---	1522 LB	120V / 20A DED.			■						■				
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4	---	NA	120V / 3A				■						■			2
BE-02A	ATM, DRIVE-UP, ISLAND	HYOSUNG	MX 7800 IR+	---	1918 LB	120V / 30A DED.			■						■				
BE-02B	ATM, DRIVE-UP, THROUGH-WALL	HYOSUNG	MX 7800 DR	---	1852 LB	120V / 20A DED.			■						■				
	ATM SURROUND	SIGNAGE VENDOR	SUR-TTW-U-4-TP	---	NA	120V / 3A				■						■			2
BE-03	APRON CASE	DIEBOLD	AC-225-SX + AC-1-H + M-7-UD	BLACK	NA	NONE					■						■		
		HAMILTON	HSKS103	BLACK	NA	NONE													
BE-04A	ACCESSIBLE TELLER PEDESTAL	DIEBOLD	SD-3-C-SL	BLACK	NA	NONE					■						■		
		HAMILTON	S-604	BLACK	NA	NONE													
BE-04B	ACCESSIBLE TELLER PEDESTAL WITH LOCKER	DIEBOLD	SD-3-LL/RL	BLACK	NA	NONE					■						■		
		HAMILTON	604	BLACK	NA	NONE													
BE-05	STANDARD TELLER PEDESTAL	DIEBOLD	SU-4-2C	BLACK	NA	NONE					■						■		
		HAMILTON	S-205	BLACK	NA	NONE													
BE-06	STANDARD TELLER PEDESTAL WITH LOCKERS	DIEBOLD	SU-4-L2L/R2L	BLACK	NA	NONE					■						■		
		HAMILTON	S-207	BLACK	NA	NONE													
BE-07	TELLER BRG INTERCOM	PRINCIPLE USA	STS-KO54	S.S. / ALUM.	NA	120V / 1.6A	■						■						
BE-08	COMBO ATM / AHD	NCR	5285	---	2853 LB	120V / 10A				■					■				4
BE-09	DUAL-CONTROL KEY BOX	HAMILTON	SKC-ASSY	---	---	NONE					■			■					15
BE-10	AFTER HOURS DEPOSITORY	DIEBOLD	30901 TL-15	S.S. / BLACK	1495 LB	120V / 4A					■						■		4
		HAMILTON	22-101 L/R (DRIVE-UP) OR 22-103 L/R (WALK-UP)	S.S. / TAUPE	1494 LB 1624 LB	120V / 4A													4
BE-11	VACUUM AIR TUBE	DIELBOLD	VAT 30 GX 89G- 13	---	---	120V / 20 A DED.					■						■		
		DIEBOLD	42 - 15163	---	---	120V / 20 A DED.					■						■		
BE-12	CASH RECYCLER	HYOSUNG	MS500	---	970 LB	120V / 12 A DED.			■				■		■				
		GLORY	RBG-100	---	550 LB	120V / 6 A DED.			■						■				
	COIN DISPENSER	TELEQUIP	T-FLEX (DUAL CUPS)	---	12 LB	120V / 4A			HYOSUNG						HYOSUNG				
		GLORY	INSTACHANGE	---	10 LB	120V 1A			GLORY						GLORY				
BE-13	MAIN CASH CHEST (FULL-HEIGHT)	DIEBOLD	271-95 + 20530 + 20531 + (2) 20532 + (12) P-1500-CTK	BLACK	2922 LB	NONE					■						■		4
		HAMILTON	17-043 L/R + (12) (HSCT310 + HSCT211 + HSCT303)	BLACK	3545 LB	NONE					■						■		4, 5
BE-13A	MAIN CASH CHEST (HALF-HEIGHT)	DIEBOLD	271-80 + 20531 + 20532 + (6) P-1500-CTK	BLACK	1848 LB	NONE					■						■		4
		HAMILTON	14-127 L/R + (6) (HSCT310 + HSCT211 + HSCT303)	BLACK	2444 LB	NONE					■						■		4, 5
BE-13B	MAIN CASH CHEST (HALF-HEIGHT - EVERYDAY EXPRESS)	DIEBOLD	271-80 + 20531 + 20536 + 40537 + 40534	BLACK	1580 LB	NONE					■						■		4
		HAMILTON	18-029 L/R	BLACK	2078 LB	NONE					■						■		4, 5
BE-14	SAFE DEPOSIT CHEST WITH BOXES	DIEBOLD	478-98	BLACK	4739 LB MAX.	NONE					■						■		4, 6, 7, 12
		HAMILTON (ALL 3X5)	14-124 L/R	BLACK	4870 LB	NONE													
		HAMILTON (MIXED)	14-125 L/R	BLACK	4430 LB	NONE													
BE-15	ATM, WALK-UP, LOBBY (V2.5.5)	HYOSUNG	MX 8700 QT	---	2094 LB	120V / 12 A DED.			■						■				10, 14
BE-15A	ATM, WALK-UP, LOBBY (V3.0)	HYOSUNG	MX 8200 QT	---	1432 LB	120V / 12 A DED.			■						■				14
	POWER TRANSITION BOX	HYOSUNG	59920008200-5.5 (WALL) NH-1808 (FREESTANDING)	---	NA	NONE			■						■			■	
BE-15B	ATM, WALK UP, MICRO	HYOSUNG	MX 8100 QTN	---	1050 LB (fully loaded)	120V / 12 A DED.			■						■				14
	POWER TRANSITION BOX	HYOSUNG	59920008200-5.5 (WALL) NH-1808 (FREESTANDING)	---	NA	NONE			■						■			■	
BE-16	MICRO ATM KIOSK	HYOSUNG	CUSTOM	VARIES	---	---				■						■			
BE-17	MODULAR VAULT	DIEBOLD	CLASS 2 MODULAR 6-SIDE	NA	PANELS 123 LB/SF	NONE					■						■		11
		HAMILTON	TBD	NA	TBD	NONE													
BE-18	VAULT DOOR WITH DAY GATE	DIEBOLD	TITAN + 223-80 DAY GATE	S.S., ALUM. + GLASS	5250 LB	120V / 20A					■						■		
		HAMILTON	TBD	S.S., ALUM. + GLASS	TBD	TBD													
BE-19	VAULT SDB NESTS	DIEBOLD	LM SERIES	S.S.	1092 LB MAX. PER STACK	NA					■						■		6, 8
		HAMILTON	TBD	TBD	TBD	TBD													
BE-20	ATM V3.0 SIDE CAR	HYOSUNG	MX 8200 QT ACCESSORY UNIT	---	---	---			■						■				
BE-21	NOT USED	---	---	---	---	---													
BE-22	TELLER LINE SCANNER	CTS ELECTRONICS	LS150	NA	NA	120V / 2A	■						■						
BE-23	TELLER LINE RECEIPT PRINTER	BANKJET	1500	NA	NA	120V	■						■						
BE-24	NOT USED	---	---	---	---	---													
BE-25	UNDERCOUNTER CASH CHEST ('DAY SAFE')	DIEBOLD	271-30	BLACK	823 lbs	NONE					■						■		4, 13
		HAMILTON	22-100 L/R	BLACK	1157 LB														
BE-25A	UNDERCOUNTER CASH CHEST ('SMALL CASH CHEST')	DIEBOLD	271-30 + (2) 20536 + (4) P-1500-CTK	BLACK	905 LB	NONE					■						■		4, 9
		HAMILTON	22-100 L/R + (3) (HSCT310 + HSCT211 + HSCT303)	BLACK	1278 LB	NONE					■						■		4, 5, 9
BE-25B	UNDERCOUNTER CASH CHEST (EVERYDAY EXPRESS BRANCHES ONLY)	DIEBOLD	DXE TL-15 11H X 17W X 20D	BLACK	267 LB	NONE					■						■		4
		HAMILTON	DEA TL-15 SMALLEST 11H X 17W X 20D	BLACK	387 LB	NONE					■						■		4
BE-26	CURRENCY COUNTER	GIESECKE+DEVRIENT	PRONOTE 1.5	NA	NA	120 VAC	■						■						
BE-27	TELLER PIN PAD	INGENICO	IPP320	BLACK	9.41 oz	POWERED VIA USB	■						■						

NOTES

1. ALL EQUIPMENT WEIGHTS ARE LISTED AS EMPTY.
2. B.O. SURROUND 7 1/4" AFF AT NCR UNIT, 12" AFF AT HYOSUNG UNIT.
3. MODEL NUMBERS ARE PROVIDED TO REFERENCE PRODUCT CUT SHEETS FOR SPACE PLANNING PURPOSES ONLY. PRIOR TO ORDERING EQUIPMENT, VERIFY MAKE / MODEL W/ CHASE BRANCH PLANNING MANAGER.
4. VENDOR TO INCLUDE INTERNAL CABLE DOOR STOP FOR FIELD-ADJUSTEMENT BY INSTALLER TO STOP DOOR AS INDICATED IN PLAN.
5. INCLUDES CHEST MANUFACTURER'S LOCKERS.
6. INTERNAL BOX CONFIGURATION TO BE DETERMINED BY CHASE BRANCH PLANNING.
7. PROVIDE AMERICAN SECURITY PRODUCT CO. ESL20 DAY LOCK AT ALL SDB CHESTS IN ROOMS WITH VIEWING CARRELS.
8. PROVIDE MANUFACTURER'S KEY TRAYS AND MATCHING METAL CEILING AND WALL CLOSURE PANELS AS INDICATED IN DRAWINGS.
9. FOR USE BY EXCEPTION ONLY AT ROOMS WITH ACCESS TELLER AND NO MAIN CASH SAFE. INCLUDES INTERNAL TELLER CASH DRAWER LOCKERS.
10. INCLUDES MANUFACTURER'S ENCLOSURE, FLOOR POWER TRANSITION BOX, AND SIGN PANEL POWERED BY ATM.
11. 6-SIDED, CLASS II, 9'-0" CLEAR INTERIOR HEIGHT.
12. PROVIDE DAY LOCK AT CHESTS LOCATED IN THE SAME ROOM AS A VIEWING CARREL.
13. TO BE PROVIDED WITH DAY 1 EQUIPMENT BY EXCEPTION ONLY. GENERALLY REQD. ONLY AT RELOCATIONS AND CONSOLIDATIONS WITH HISTORICALLY HIGH TRANSACTIONS. ALL OTHER BRANCHES SHALL INCLUDE ONLY "FUTURE" DAY SAFE SPACE.
14. ATM VENDOR TO PROVIDE AND INSTALL SCREEN LOCKING BRACKETS TO MAINTAIN SCREEN POSITION WITH ALL OPERABLE PARTS WITHIN ACCESSIBLE REACH RANGE.
15. INCLUDES KABA MAS #252 LOCK. G.C. TO PROVIDE SOLID WOOD BLOCKING AS REQUIRED. SURFACE-MOUNT KEY BOX SUCH THAT HIGHEST OPERABLE PART (PULL OR HIGHEST LOCK BUTTON) IS 3'-10" MAX. AFF.

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PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
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DRAWN BY:	DD
CHECKED BY:	AS

MODEL

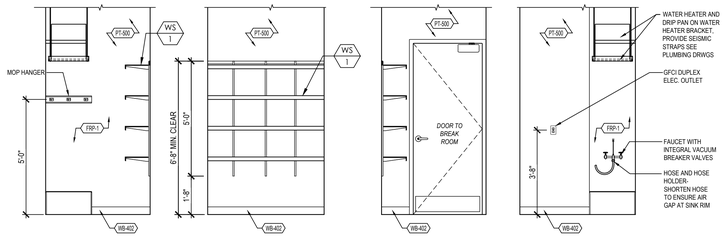
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SHEET TITLE

BANK & MISCELLANEOUS EQUIPMENT SCHEDULE

SHEET NUMBER

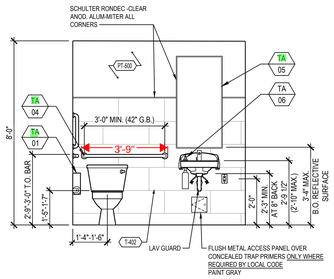
A3.3.3



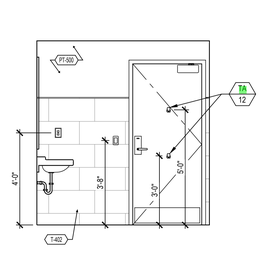
A B C D

5 A5.1.1 JANITOR'S CLOSET

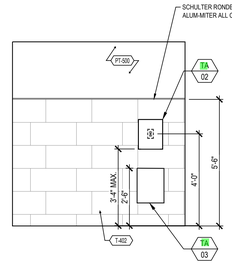
3/8"=1'-0"



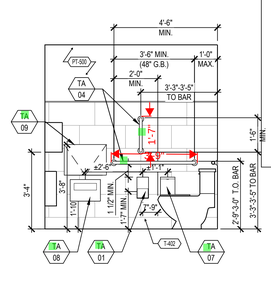
4A - ELEVATION



4B - ELEVATION



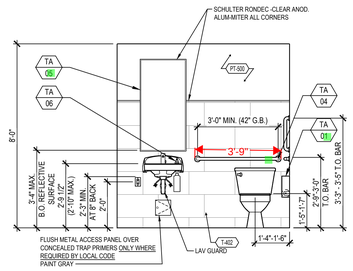
4C - ELEVATION



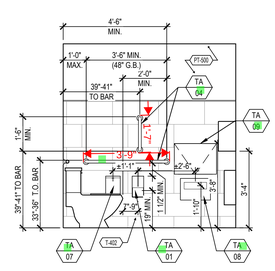
4D - ELEVATION

4 A5.1.1 INTERIOR RESTOOM ELEVATIONS - RESTROOM 3

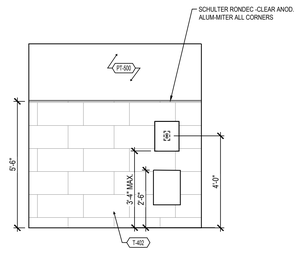
3/8"=1'-0"



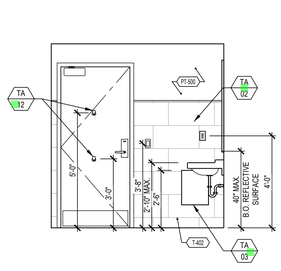
3A - ELEVATION



3B - ELEVATION



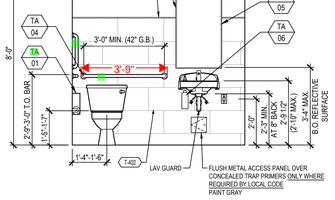
3C - ELEVATION



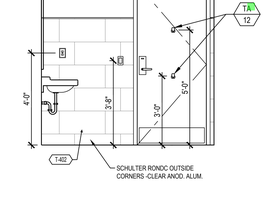
3D - ELEVATION

3 A5.1.1 INTERIOR RESTROOM ELEVATIONS - RESTROOM 2

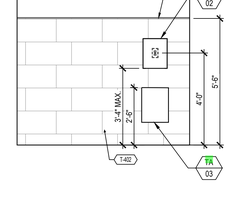
3/8"=1'-0"



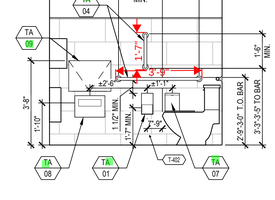
2A - ELEVATION



2B - ELEVATION



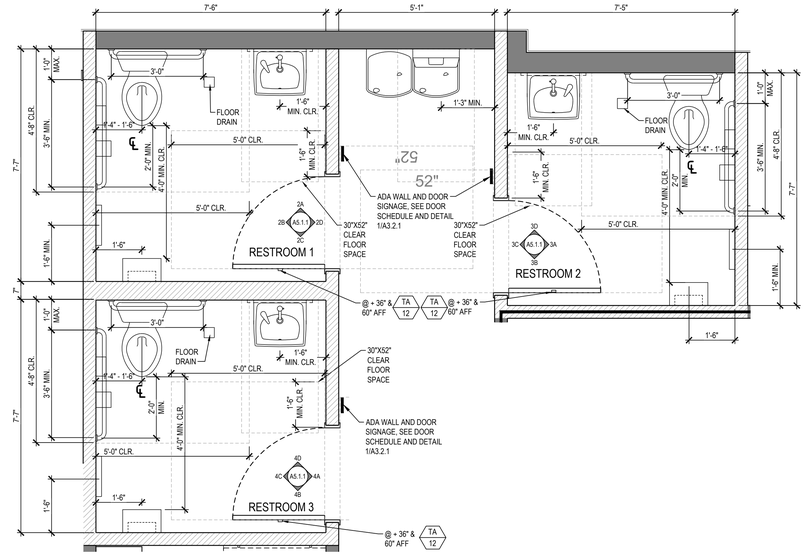
2C - ELEVATION



2D - ELEVATION

2 A5.1.1 INTERIOR RESTROOM ELEVATIONS - RESTROOM 1

3/8"=1'-0"



1 A5.1.1 ENLARGED RESTROOM PLAN

1/2"=1'-0"

NOTES:
1. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE.
2. SEE DETAILS 1, 4, 5, 7, 9/A0.2.2 AND SHEET A0.2.3 FOR ADDITIONAL ACCESSIBILITY INFORMATION.
3. PROVIDE ACCESSIBLE LAVATORY W/ FAUCET SEE DETAIL 1 & 7/A0.2.3 AND PLUMBING DRAWINGS.
4. KNEE CLEARANCE UNDER THE LAVATORY SHALL PROVIDE A MINIMUM OF 27" FROM THE FLOOR TO THE BOTTOM SINK BOWL AND A MINIMUM OF 30" WIDE AT A MINIMUM OF 8" BACK FROM THE FRONT OF THE LAVATORY.
5. INSULATE ALL EXPOSED HOT WATER AND DRAINPIPES.
6. THE FLUSH VALVE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET AREA.

RESTROOM ACCESSORIES SCHEDULE

TAG	DESCRIPTION	MFR.	MODEL	FINISH	NOTES
TA-01	TOILET TISSUE DISPENSER	BOBRICK	B-2888	S.S.	
TA-02	PAPER TOWEL DISPENSER	BOBRICK	B-2974	S.S.	3, 6
TA-02A	PAPER TOWEL DISPENSER	BOBRICK	B-72860	PLASTIC	3
TA-03	WASTE RECEPTACLE	BOBRICK	B-279	S.S.	
TA-04	GRAB BARS	BOBRICK	B-5806 SERIES	S.S.	
TA-05	MIRROR	BOBRICK	B-165 2448	S.S.	
TA-06 (OPT.)	LIQUID SOAP DISPENSER: LAV.-MOUNT, LONG SHANK, 4" SPOUT	BOBRICK	B-822	POL. S.S.	1, 2
TA-06 (OPT.)	FOAM SOAP DISPENSER: LAV.-MOUNT, LONG SHANK, 4" SPOUT	BOBRICK	B-823	POL. S.S.	1, 2
TA-07	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	S.S.	
TA-08	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	S.S.	
TA-09	SHELF	BOBRICK	B-7816	S.S.	4
TA-10	BABY CHANGING STATION (ONLY WHERE CODE REQUIRED)	GAMCO	BCS-2	GREY HDPE	4, 5
TA-11	HAND DRYER	DYSON	307174-01 AIRBLADE V + 964691-02 TALL SS BACKBOARD	NICKEL	7
TA-12	COAT HOOK	BOBRICK	B-76717	S.S.	

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, HANDLE < 44" AFF.
6. PROVIDE BOBRICK #3874-57 AC EXTERNAL POWER ADAPTER TO RECESSED OUTLET BEHIND DISPENSER.
7. PROVIDE HAND DRYER BACK PANEL ONLY WHEN TILE WALL FINISH NOT PROVIDED.

PREPARED FOR:

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PROJECT INFORMATION BLOCK

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DATE:	10/15/2025
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CHECKED BY:	AS

MODEL

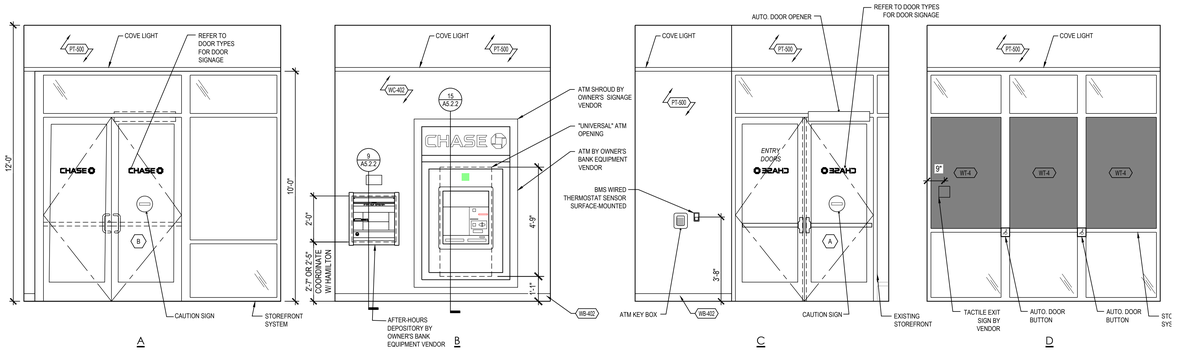
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SHEET TITLE

ENLARGED RESTROOM PLANS AND ELEVATIONS

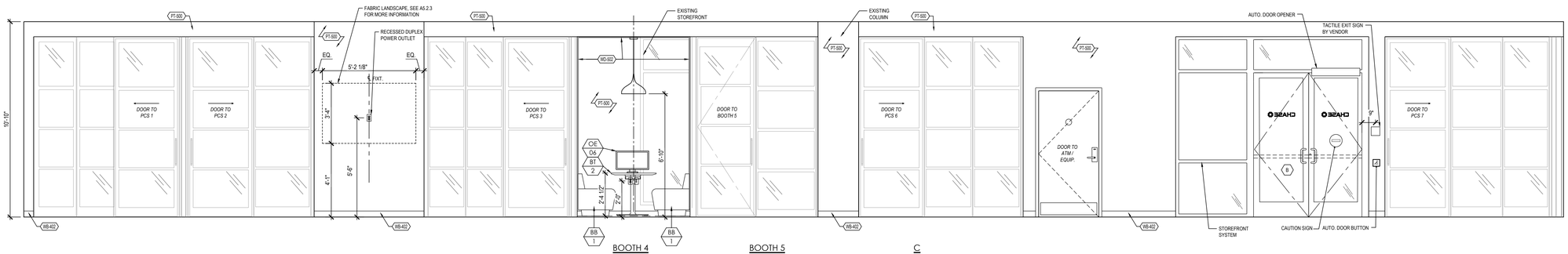
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A5.1.1

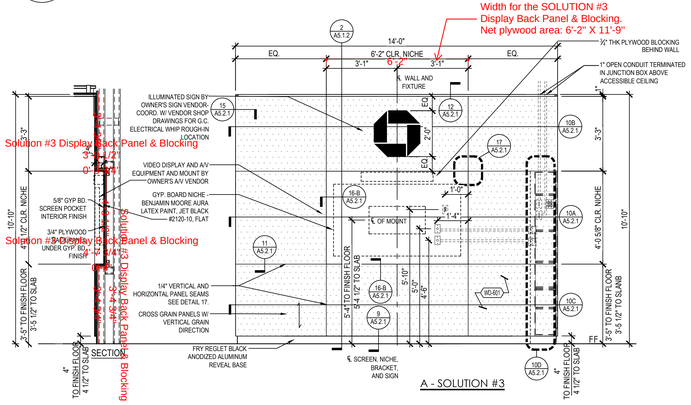


6 A5.1.2 TRANSACTION VESTIBULE
3/8"=1'-0"

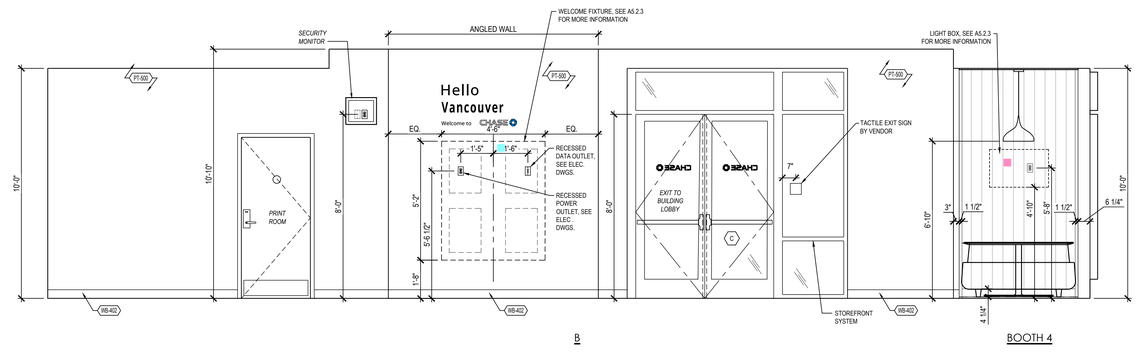
5 A5.1.2 LOBBY
3/8"=1'-0"



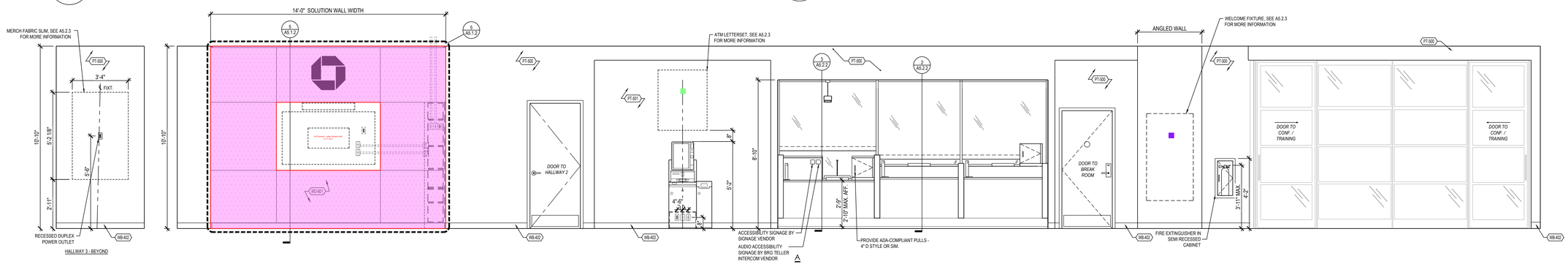
4 A5.1.2 LOBBY
3/8"=1'-0"



3 A5.1.2 DIGITAL DISPLAY
3/8"=1'-0"



2 A5.1.2 LOBBY
3/8"=1'-0"



1 A5.1.2 LOBBY
3/8"=1'-0"

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MODEL

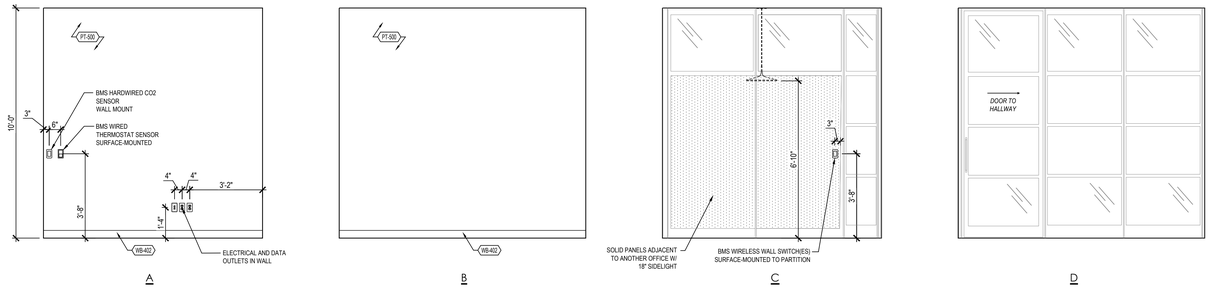
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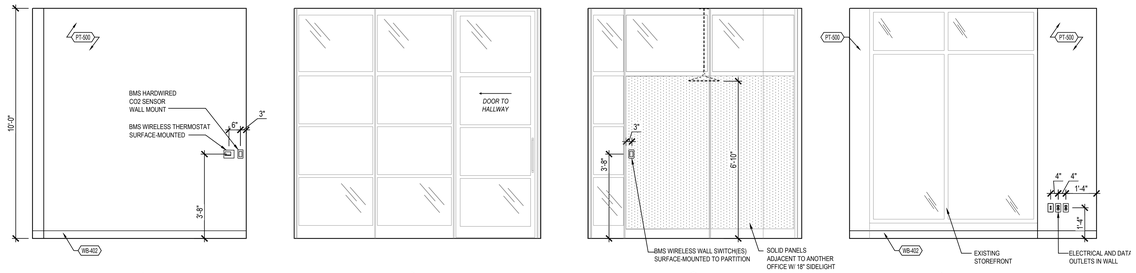
INTERIOR ELEVATIONS

SHEET NUMBER

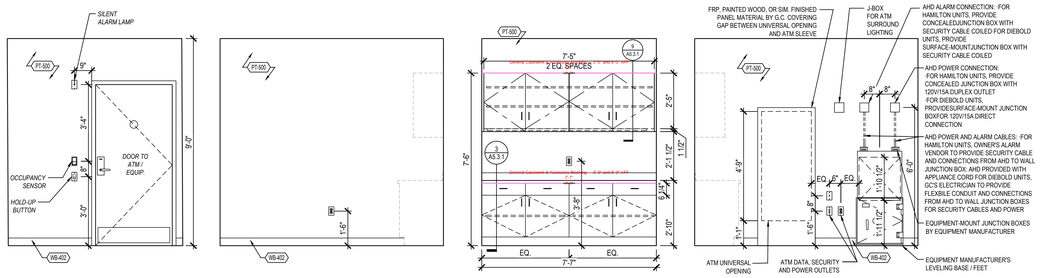
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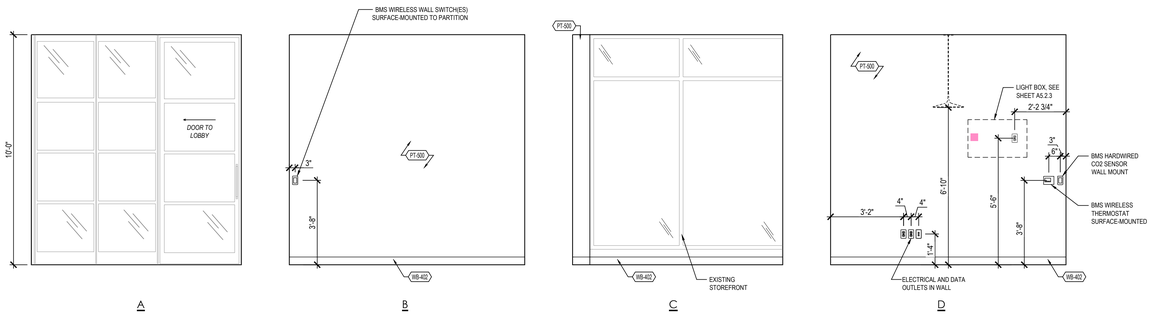
6 A5.1.3 **PCS 12**
3/8"=1'-0"



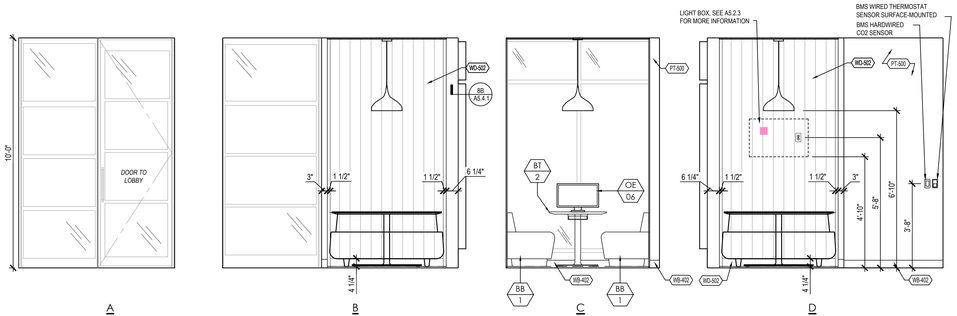
5 A5.1.3 **PCS 11**
3/8"=1'-0"



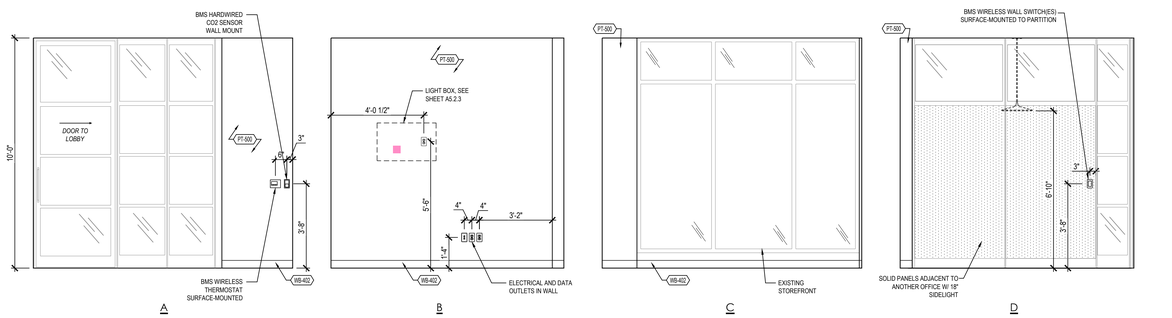
4 A5.1.3 **ATM / EQUIP. ROOM**
3/8"=1'-0"



3 A5.1.3 **PCS 6**
3/8"=1'-0"



2 A5.1.3 **BOOTH 5**
3/8"=1'-0"



1 A5.1.3 **PCS 1**
3/8"=1'-0"

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CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

1209 MAIN ST.
VANCOUVER, WA 98660

ARCHITECT/ ENGINEER OF RECORD

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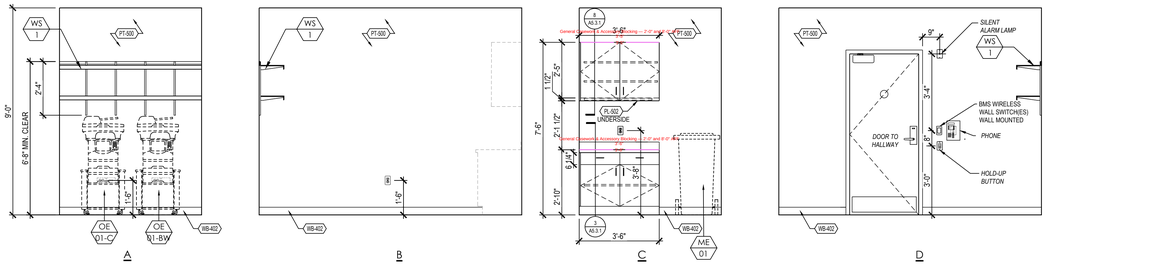
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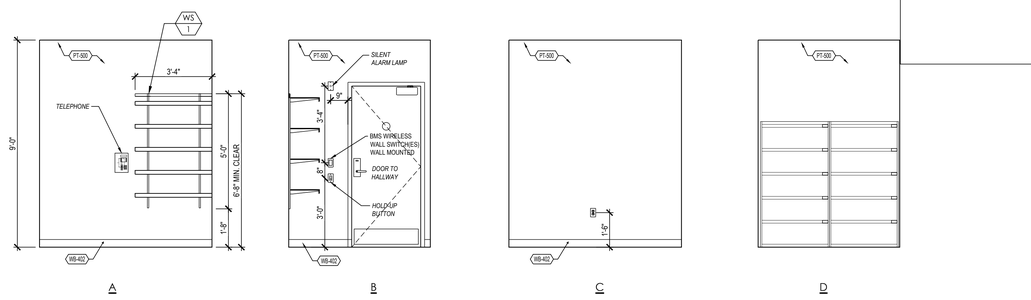
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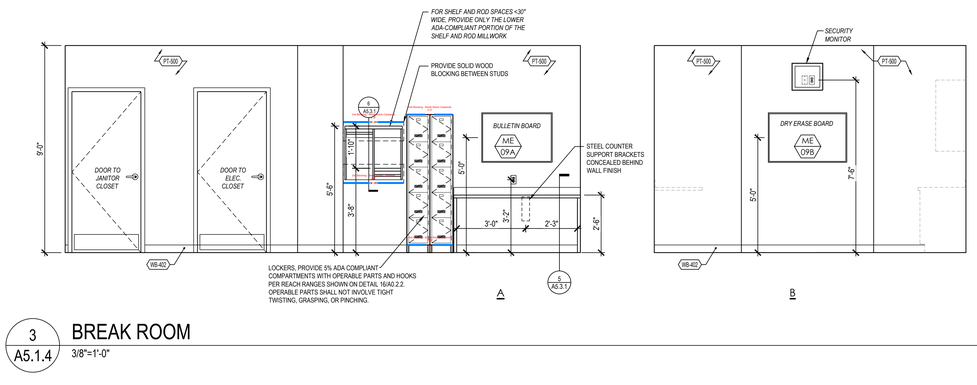
A5.1.3



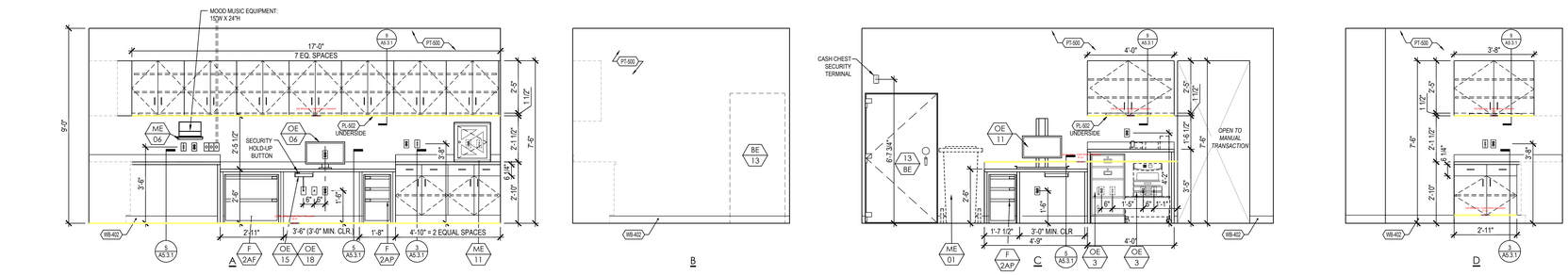
5 A5.1.4 PRINT ROOM
3/8"=1'-0"



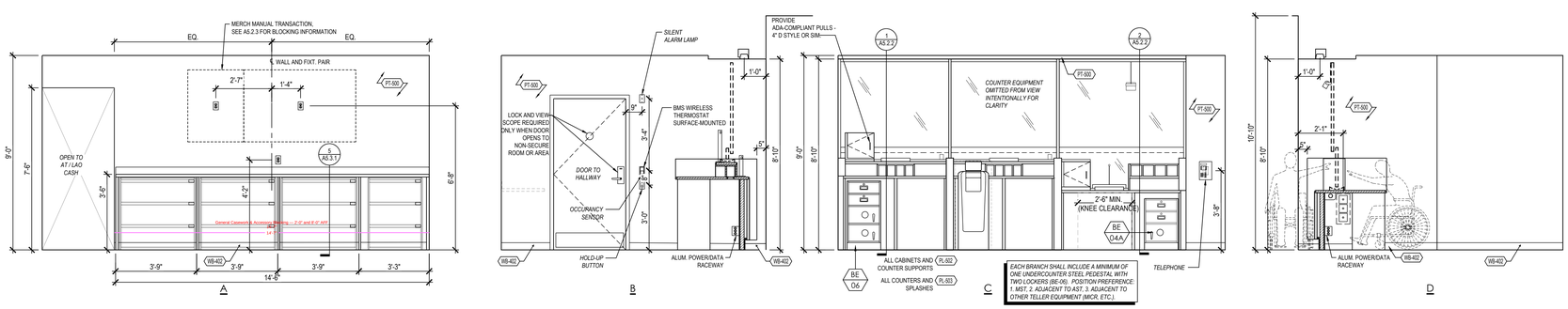
4 A5.1.4 FILE STORAGE
3/8"=1'-0"



3 A5.1.4 BREAK ROOM
3/8"=1'-0"



2 A5.1.4 CASH ROOM
3/8"=1'-0"



1 A5.1.4 MANUAL TELLER STATION
3/8"=1'-0"

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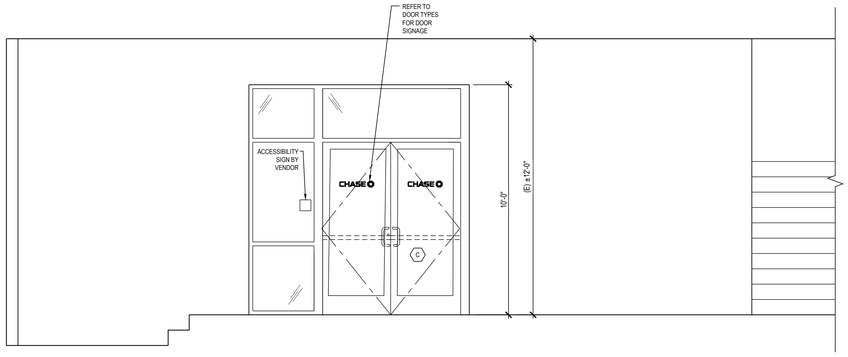
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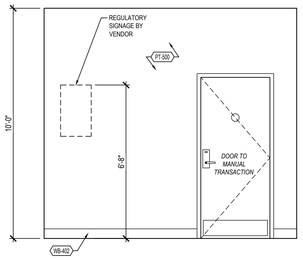
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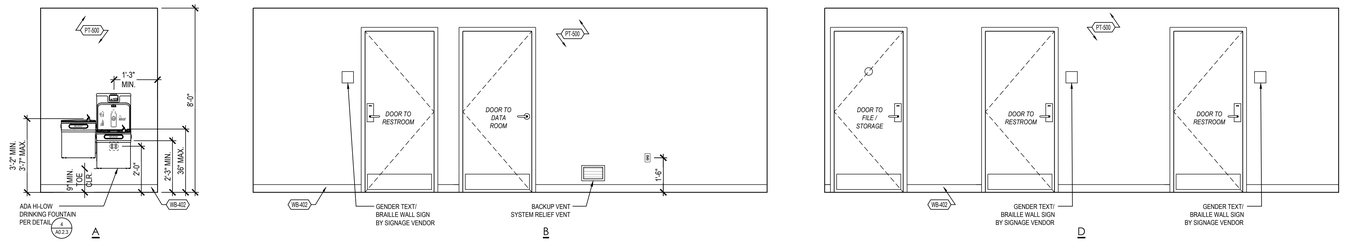
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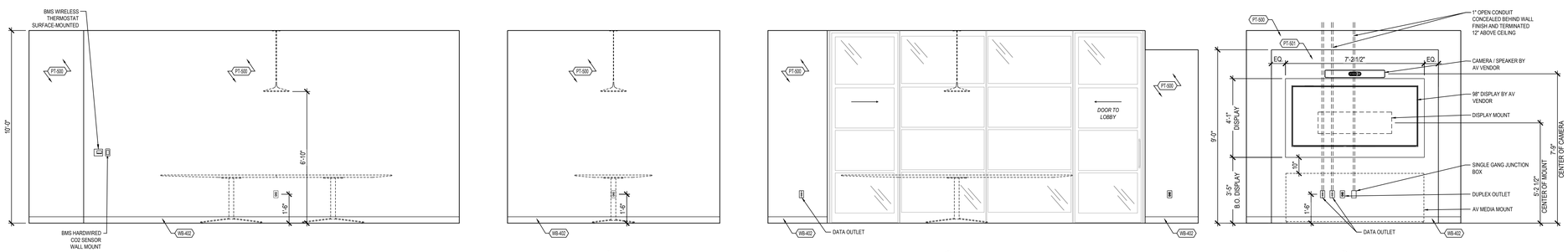
5 A5.1.5 BUILDING LOBBY ENTRANCE
3/8"=1'-0"



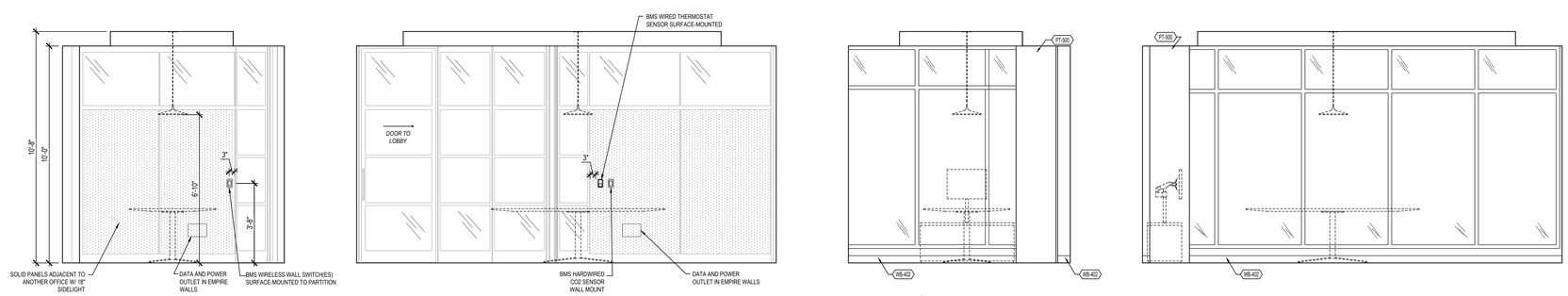
4 A5.1.5 HALLWAY 1
3/8"=1'-0"



3 A5.1.5 HALLWAY 2
3/8"=1'-0"



2 A5.1.5 CONFERENCE ROOM / TRAINING
3/8"=1'-0"



1 A5.1.5 CONFERENCE ROOM / PCS 8
3/8"=1'-0"

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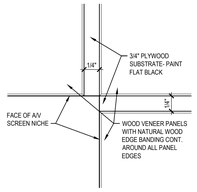
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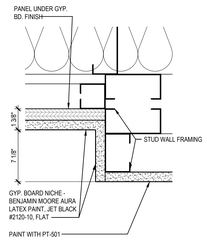
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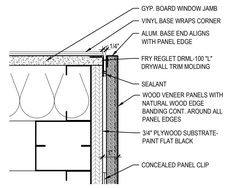
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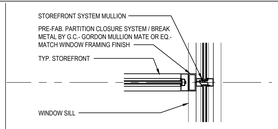
17 A5.2.1 **PANEL JOINT ALIGNMENT**
FULL SCALE



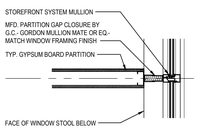
16 A5.2.1 **SCREEN NICHE**
3"=1'-0"



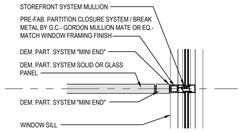
15 A5.2.1 **PANEL WALL CORNER**
3"=1'-0"



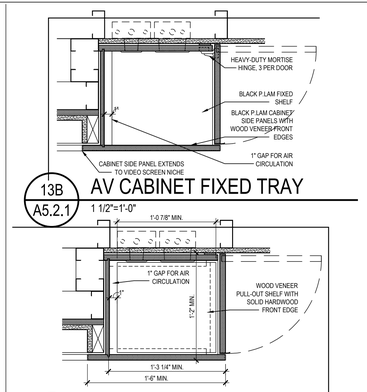
14A A5.2.1 **STOREFRONT CLOSURE DETAIL AT MULLION**
3/4" = 1'-0"



14C A5.2.1 **PARTITION CLOSURE DETAIL AT MULLION**
3/4" = 1'-0"

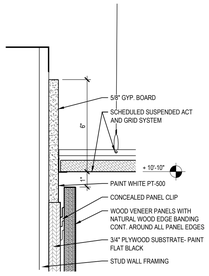


14B A5.2.1 **PARTITION CLOSURE DETAIL AT MULLION**
3/4" = 1'-0"

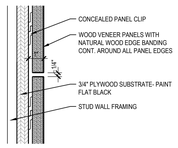


13B A5.2.1 **AV CABINET FIXED TRAY**
1 1/2"=1'-0"

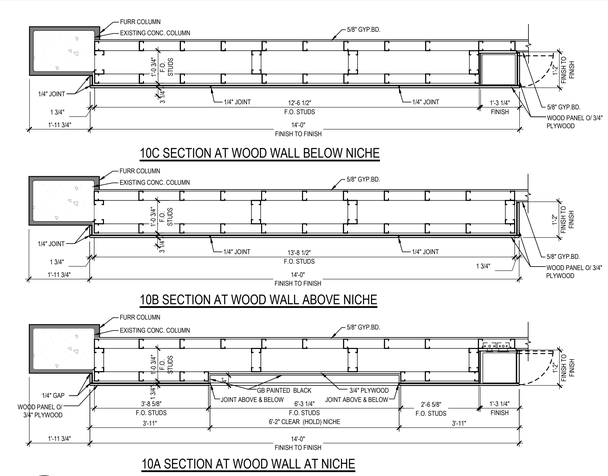
13A A5.2.1 **AV CABINET PULL-OUT TRAY**
1 1/2"=1'-0"



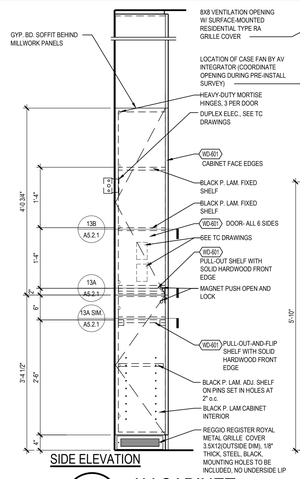
12 A5.2.1 **PANEL WALL TOP**
3"=1'-0"



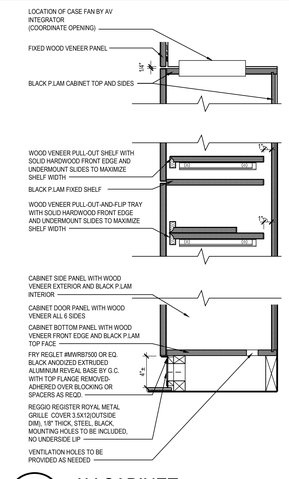
11 A5.2.1 **PANEL JOINT**
3"=1'-0"



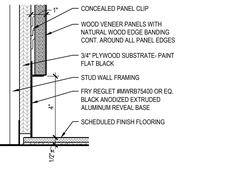
10 A5.2.1 **TYPICAL DIGITAL DISPLAY WALLS**
1/2" = 1'-0"



10D A5.2.1 **AV CABINET**
3/4" = 1'-0"



10E A5.2.1 **AV CABINET**
1/2" = 1'-0"

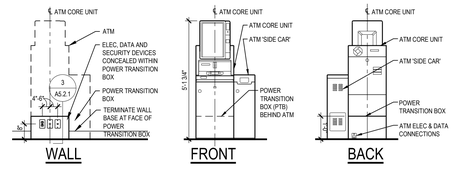


9 A5.2.1 **PANEL WALL BASE DETAIL**
3"=1'-0"

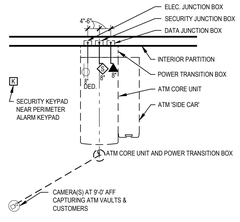


ATM v3.0

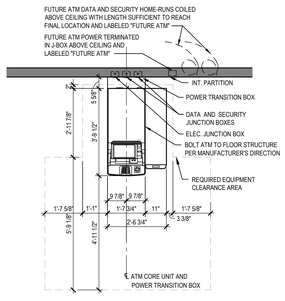
8 A5.2.1 **ATM IMAGE**
N.T.S.



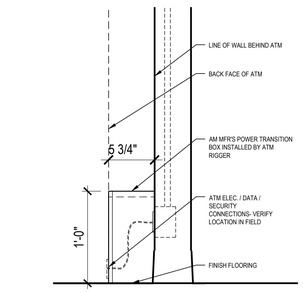
7 A5.2.1 **ATM v3.0 ELEVATIONS**
3/8" = 1'-0"



5 A5.2.1 **ATM v3.0 ELEC./DATA/SEC. PLAN**
3/8" = 1'-0"

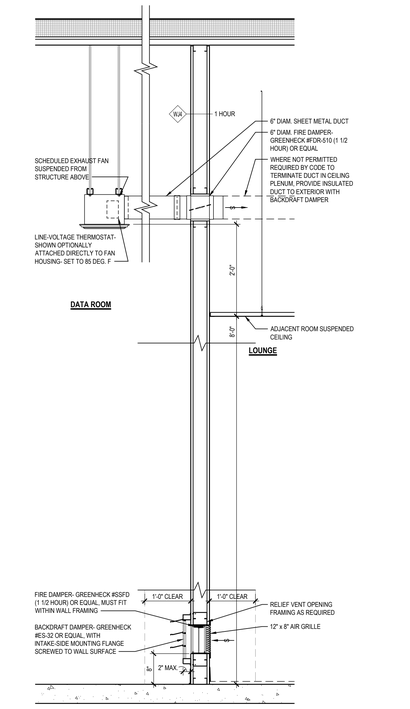


4 A5.2.1 **ATM v3.0 FLOOR PLAN**
3/8" = 1'-0"



3 A5.2.1 **ATM MANUFACTURER'S POWER TRANSITION BOX**
1 1/2" = 1'=0"

2 A5.2.1 **NOT USED**
1 1/2" = 1'=0"



1 A5.2.1 **BACKUP VENTILATION SYSTEM**
3/4" = 1'-0"

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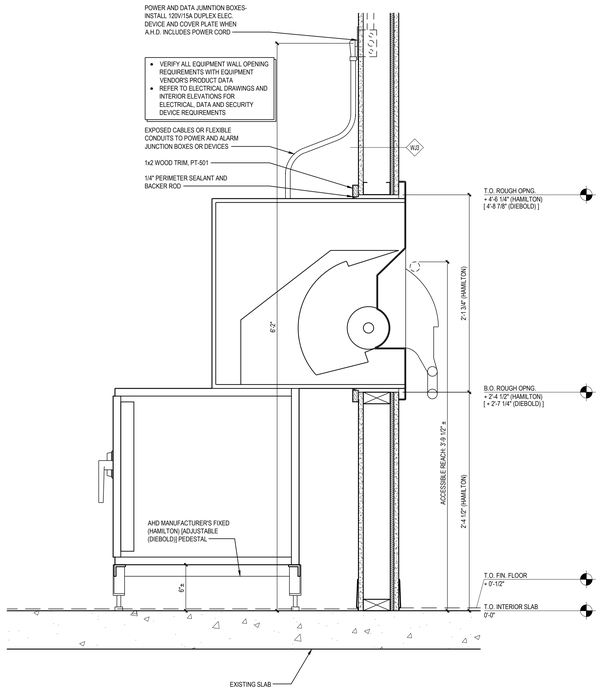
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SHEET TITLE

INTERIOR DETAILS

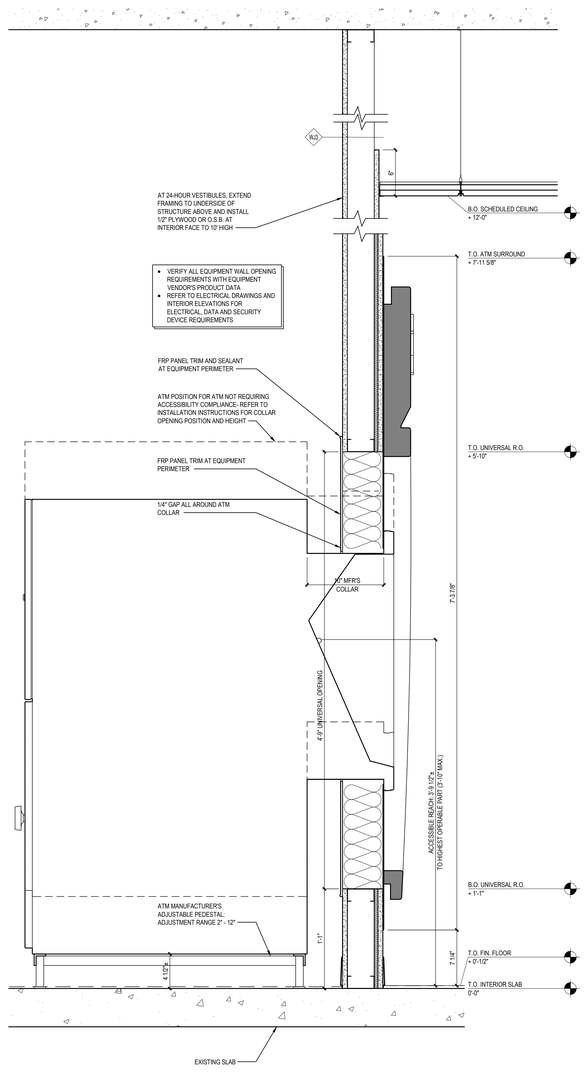
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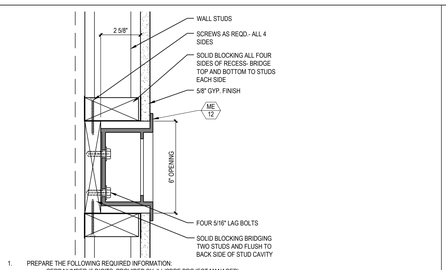
10 A5.2.2 SECTION AT INTERIOR WALK-UP AHD

1 1/2" = 1'-0"



9 A5.2.2 SECTION AT INTERIOR WALK-UP ATM

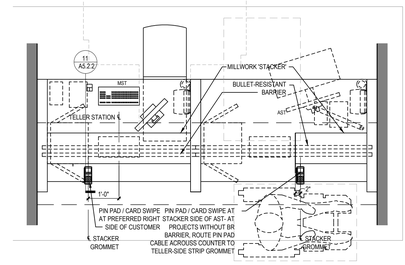
1 1/2" = 1'-0"



1. PREPARE THE FOLLOWING REQUIRED INFORMATION:
   a. CERP NUMBER (5 DIGITS, PROVIDED BY JLC/BRE PROJECT MANAGER)
   b. PROJECT NAME / BRANCH NAME
   c. BRANCH ADDRESS, CITY, AND STATE
   d. COMPANY NAME, CONTACT, PHONE, AND EMAIL
   e. SHIPPING ADDRESS, CITY, STATE, AND ZIP CODE
2. SUBMIT REQUEST HERE: HTTPS://APP.SMARTSHEET.COM/B/FORM/777E29D47B814D87A947847752F1E9D
3. FOLLOW-UP ON YOUR ORDER. ONCE A REQUEST IS SUBMITTED, IT CAN BE VIEWED HERE: HTTPS://APP.SMARTSHEET.COM/DYNAMICVIEW/VIEWS/3CB55034-360F-466D-9468-3D3BAA8195FES
4. IF THERE ARE ANY ISSUES AFTER SUBMITTING THE ORDER, SEND AN EMAIL OUTLINING THE ISSUES TO INVENTORY_RESOLUTION@CHASE.COM. PLEASE INCLUDE THE BRANCH ADDRESS USED IN THE ORDER FORM.

17 A5.2.2 RECESSED KEY BOX SECTION

3" = 1'-0"

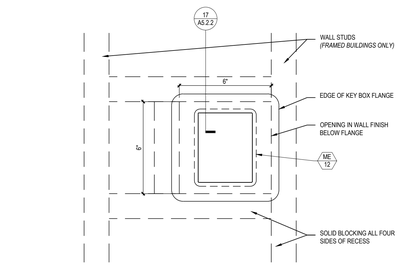


12 A5.2.2 PIN PAD / CARD SWIPE POSITION

1/2" = 1'-0"

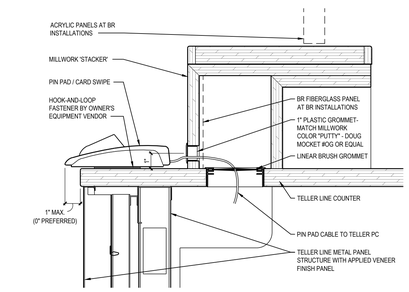
8 A5.2.2 CASH RECYCLER- CLEARANCES AND CONNECTIONS

3/8" = 1'-0"



16 A5.2.2 RECESSED KEY BOX ELEVATION

3" = 1'-0"



11 A5.2.2 PIN PAD / CARD SWIPE MOUNTING

3" = 1'-0"

7 A5.2.2 NOT USED

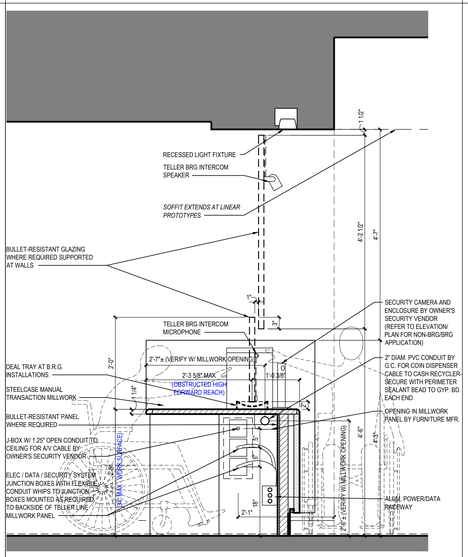
3/4" = 1'-0"

6 A5.2.2 NOT USED

3/4" = 1'-0"

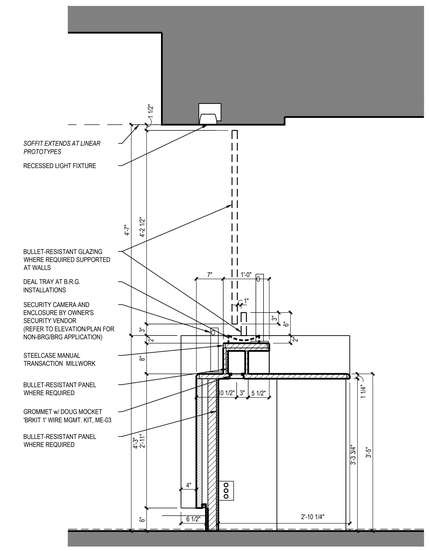
4 A5.2.2 NOT USED

1 1/2" = 1'-0"



2 A5.2.2 SECTION AT AST

3/4" = 1'-0"



1 A5.2.2 SECTION AT MST

3/4" = 1'-0"

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

1209 MAIN ST.
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ROY PEDRO ARCHITECT

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CHECKED BY:	AS

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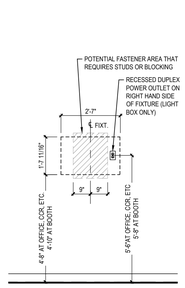
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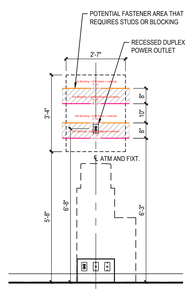
INTERIOR DETAILS

SHEET NUMBER

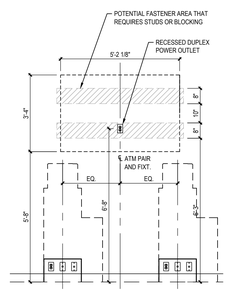
A5.2.2



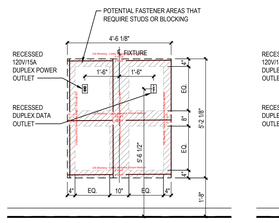
SALES OFFICE- LIGHTBOX/MAGNET



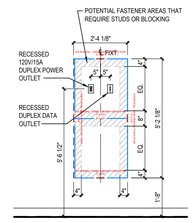
ATM FABRIC- PORTRAIT



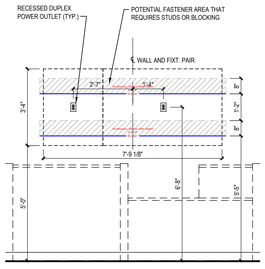
ATM FABRIC- LANDSCAPE



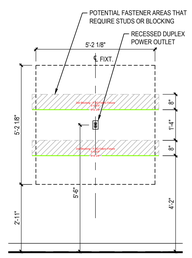
WELCOME FIXTURE- MEDIUM



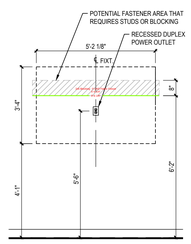
WELCOME FIXTURE- SMALL



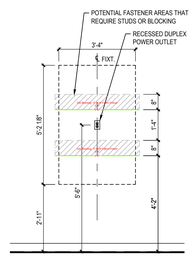
MANUAL TRANSACTIONS



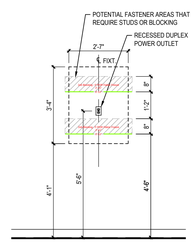
FABRIC- SQUARE



FABRIC- LANDSCAPE



FABRIC- SLIM



FABRIC- PORTRAIT

1 / A5.2.3 ELEVATIONS: MERCHANDISING FIXTURE POSITIONING

3/8" = 1'-0"

PREPARED FOR:

CHASE

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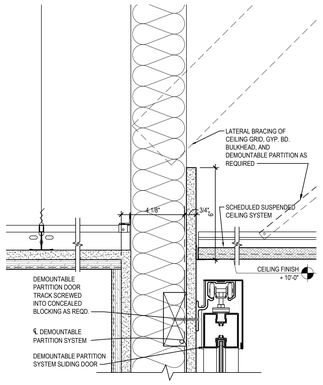
DRAWING STANDARDS v20.7

SHEET TITLE

MERCHANDISE FIXTURE DETAILS

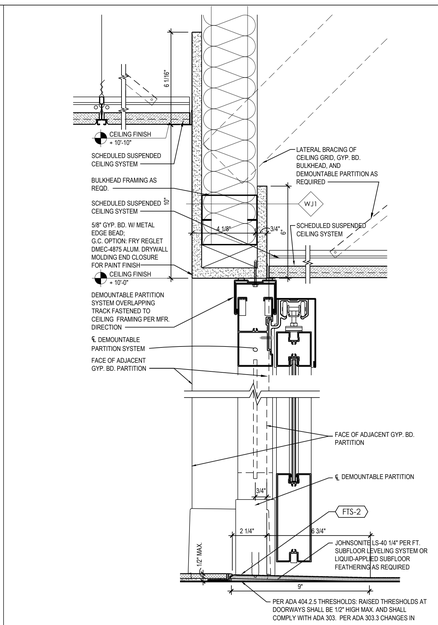
SHEET NUMBER

A5.2.3



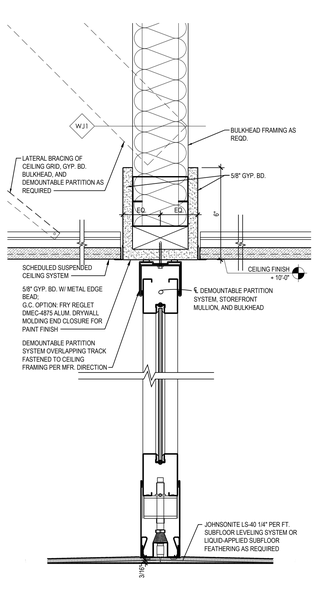
14 A5.3.1 TYP. OFFICE / SLIDING DOOR TRACK DEMOUNTABLE PARTITION

3" = 1'-0"



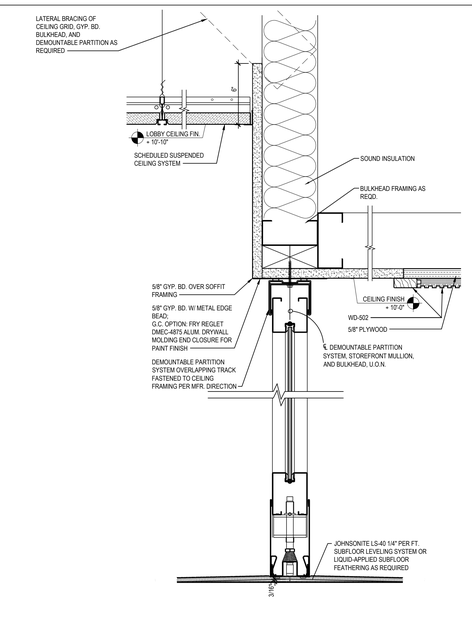
13 A5.3.1 TYP. OFFICE / LOBBY DOOR AT DEMOUNTABLE PARTITION

3" = 1'-0"



12 A5.3.1 TYP. OFFICE / OFFICE DEMOUNTABLE PARTITION

3" = 1'-0"



11 A5.3.1 BOOTH / LOBBY AT ENCLOSED BOOTH DEMOUNTABLE PARTITION

3" = 1'-0"

CUSTOM CABINET NOTES

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

9 A5.3.1 WALL CABINET W/ DOORS AND LIGHT FIXTURE

1 1/2" = 1'-0"

8 A5.3.1 WALL CABINET W/ DOORS

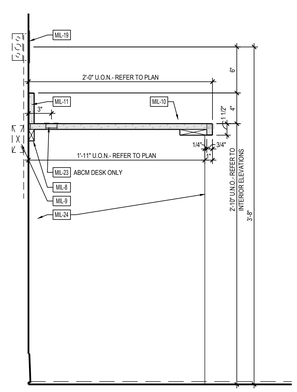
1 1/2" = 1'-0"

7 A5.3.1 NOT USED

NTS

6 A5.3.1 HANG ROD AND SHELF

1 1/2" = 1'-0"



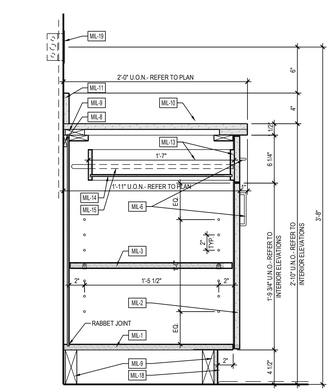
PLASTIC LAMINATE

5 A5.3.1 OPEN LAMINATE COUNTER

1 1/2" = 1'-0"

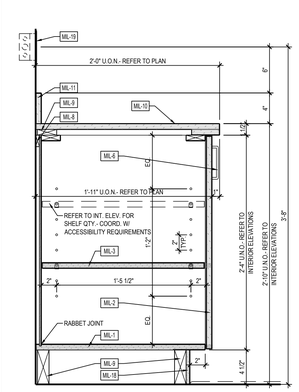
4 A5.3.1 NOT USED

1 1/2" = 1'-0"



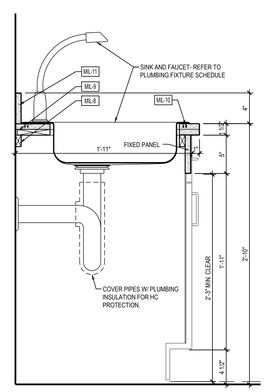
3 A5.3.1 DOOR / DRAWER BASE CABINET

1 1/2" = 1'-0"



2 A5.3.1 DOOR BASE CABINET

1 1/2" = 1'-0"



STANDARD SINK BASE-FRONT APPROACH

1 A5.3.1 SINK BASE CABINET

1 1/2" = 1'-0"

14 A5.3.1 FULL HEIGHT CABINET

1 1/2"=1'-0"

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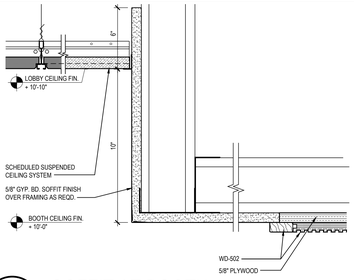
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SHEET TITLE

MILLWORK DETAILS

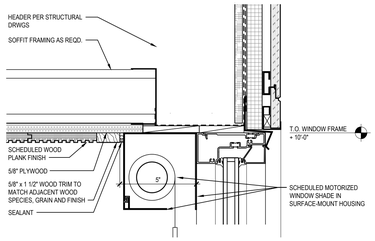
SHEET NUMBER

A5.3.1



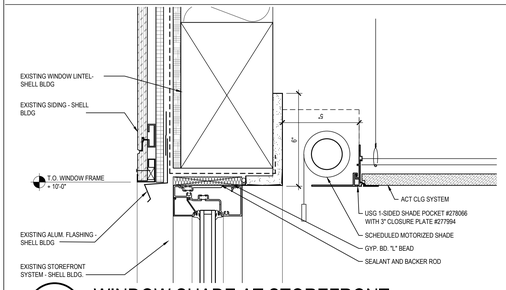
13 A5.4.1 SOFFIT AT BOOTH

3" = 1'-0"



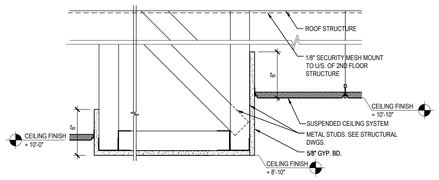
12 A5.4.1 WINDOW SHADES AT BOOTHS

3" = 1'-0"



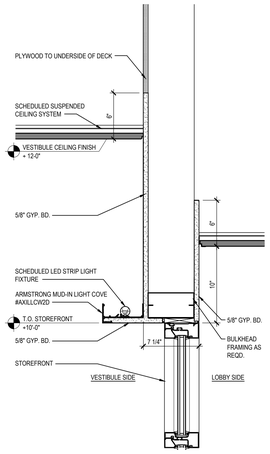
11 A5.4.1 WINDOW SHADE AT STOREFRONT

3"=1'-0



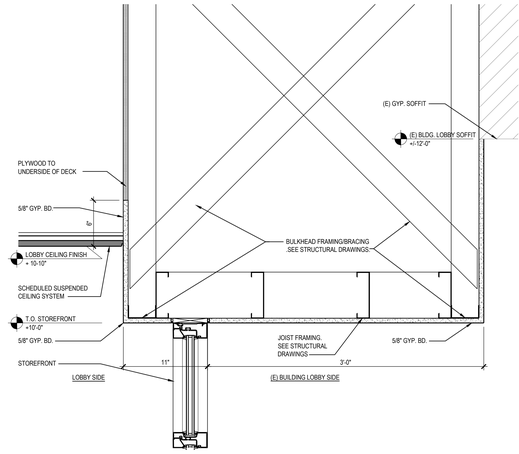
10 A5.4.1 TRANSACTION TELLER SOFFIT

1 1/2" = 1'-0"



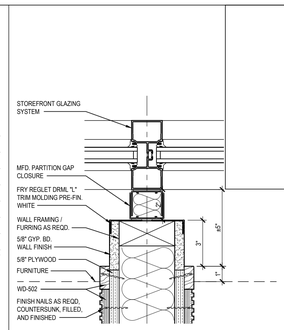
9A A5.4.1 VESTIBULE DOOR HEAD

1 1/2" = 1'-0"



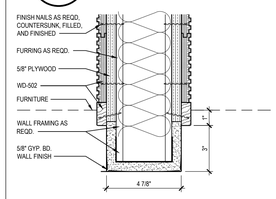
9B A5.4.1 DOOR HEAD @ (E) BLDG LOBBY

1 1/2" = 1'-0"



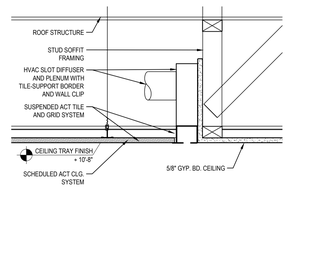
8B A5.4.1 BOOTH PARTITION AT STOREFRONT

3" = 1'-0"



8A A5.4.1 BOOTH PARTITION LOBBY END

3" = 1'-0"

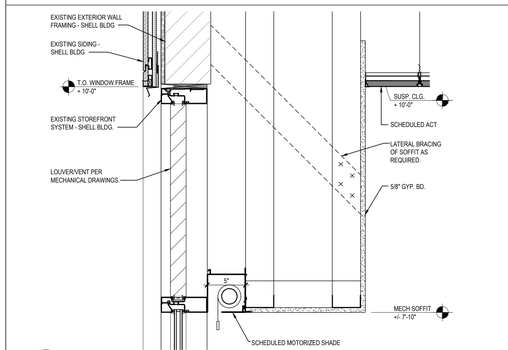


7 A5.4.1 CONFERENCE RM SOFFIT

1 1/2" = 1'-0"

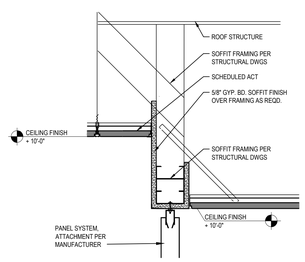
6 A5.4.1 CONFERENCE RM SOFFIT

1 1/2" = 1'-0"



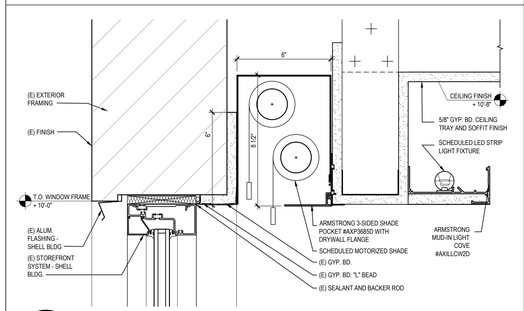
5 A5.4.1 WINDOW SHADE AT MECH. SOFFIT

1 1/2" = 1'-0"



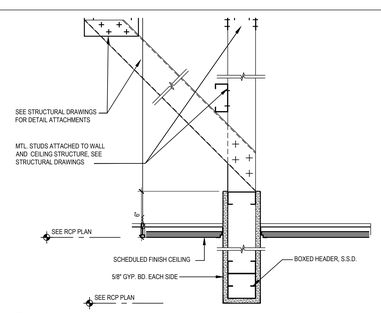
4 A5.4.1 OFFICE / LOBBY TRANSITION

1 1/2" = 1'-0"



3 A5.4.1 WINDOW SHADE AT CONFERENCE ROOM

3" = 1'-0"



2 A5.4.1 TYP. SOFFIT DETAIL

1 1/2" = 1'-0"

NOTES:

1. BRACING WIRES SECURED TO MAIN RUNNERS WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EA. OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING AND LOCATED 12'–0" ON CENTER BOTH WAYS STARTING 6" FROM TWO ADJACENT WALLS.
2. FOR ROOMS WITH SPAN IN EITHER DIRECTION LESS THAN 25', MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF TWO ADJACENT WALLS WITH 3/8" CLEARANCE BETWEEN THE RUNNERS AND THE OTHER TWO WALLS. WHERE SPAN OF THE CEILING SYSTEM BETWEEN PERIMETER WALLS EXCEED 25' IN BOTH DIRECTIONS, A MINIMUM WALL ANGLE SIZE OF AT LEAST 2" HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITION. THE FIRST TILE SHALL BE 3/4" CLEAR FROM WALL SURFACE.
3. WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4', THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2' O.C. ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVICING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.
4. LATERAL FORCE–BRACING MEMBERS FOR SUSPENDED CEILINGS SHALL BE A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND STRUCTURE AND SHALL SUPPORT A DESIGN LOAD THE GREATER OF 200 POUNDS OR THE ACTUAL LOAD, WITH A SAFETY FACTOR OF 2.
5. SUSPENDED CEILING SHALL COMPLY WITH SECTION 803.9 AND 808 (2018 IBC) AND ASCE 7–10 SECTION 13.5.6.
6. LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED. WHERE THE CEILING IS NOT SUPPORTING INTERIOR PARTITIONS, CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF CEILING. A STRUT (ADEQUATE TO RESIST VERTICAL COMPONENT FROM LATERAL LOADS) FASTENED TO MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS OF ROOF OR FLOOR ABOVE. THESE HORIZONTAL RESTAINT POINTS SHALL BE PLACED 12 FT. ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6 FT. (PER ASTM E580 SECTION 5.2.8.2) OF TWO ADJACENT WALLS. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. OTHERWISE, PROVIDE A STRUCTURAL DESIGN.
7. IN LIEU OF A 2" WALL ANGLE USE ARMSTRONG CEILING FRAMING SYSTEM PER ICC–ES REPORT ESR–1308, ICC–ES APPROVED HEAVY DUTY GRID, PRELUDE XL GRID INSTALLED PER REPORT FOR SEISMIC CATEGORY D, E AND F.
   - USE 7/8" WALL ANGLE.
   - BERC–2 CLIPS INSTALLED ON THE TWO ADJACENT WALLS WHERE THE RUNNERS MUST BE FIXED, ARE ATTACHED TO THE RUNNER BY A SHEET METAL SCREW THROUGH THE HORIZONTAL SLOT OR FIXED HOLE IN THE CLIP INTO THE WEB OF THE RUNNER. BERC–2 CLIPS INSTALLED ON OPPOSITE WALLS WHERE THE RUNNERS MUST NOT BE FIXED TO THE CLIPS MUST ALLOW THE TERMINAL RUNNER END TO MOVE 3/4 INCH.
   - FOLLOW ICC APPROVED ESR–1308 FOR INSTALLATION DETAILS.
9. PROVIDE SEISMIC SEPARATION FOR CEILING OVER 2500 SF PER ASCE 7–10 SECTION 13.5.6.
10. PROVIDE HOLD DOWN CLIPS (2) PER CROSS TEE LESS THAN 1 LB PER S.F.

GENERAL NOTES:

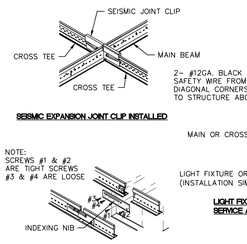
1. CEILING AREA GREATER THAN 1,000 SF. MUST HAVE LATERAL FORCE BRACING BY MEANS OF WIRE OR RIGID BRACING
2. MAIN BEAMS & CROSS TEES MUST BE SUPPORTED WITHIN 8" OF EACH WALL W/ 12 GA. WIRE OR APPROVED WALL SUPPORT.
3. A STRUT IS TO BE ATTACHED TO THE SUSPENSION SYSTEM & TO THE STRUCTURE ABOVE AT EACH BRACING.
4. RIGID BRACING MAY BE USED INSTEAD OF DIAGONAL SPLAY WIRES. RIGID BRACING MUST LIMIT CEILING MOVEMENT TO LESS THAN 1/4" AT THE POINT OF ATTACHMENT (SPLAY WIRE BRACING IS CLUSTERS OF 4 WIRES ATTACHED TO THE MAIN BEAM WITHIN 2" OF A CROSS TEE INTERSECTION).
5. HORIZONTAL RESTRAINT POINTS ARE TO BE LOCATED NO MORE THAN 12' ON CENTER IN EACH DIRECTION, & THE FIRST POINT WITHIN 6'–0" OF EACH WALL.
6. ATTACHMENT OF THE BRACING WIRES TO THE MAIN BEAM & THE STRUCTURE SHOULD SUPPORT THE GREATER OF 200 POUNDS OR THE ACTUAL DESIGN LOAD W/ A SAFE FACTOR OF 2.
7. HEAVY–DUTY GRID SYSTEM REQUIRED
8. GRID MUST BE ATTACHED TO 2 ADJACENT WALLS. USE BERC–2 CLIPS WITH SHEET METAL SCREW THROUGH THE HORIZONTAL SLOT OR FIXED HOLE IN THE CLIP. CLIPS INSTALLED ON OPPOSITE WALLS WHERE RUNNERS MUST NOT BE FIXED TO THE CLIPS MUST ALLOW 3/4" MOVEMENT.
9. CEILINGS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS.
10. CEILINGS WITHOUT RIGID BRACING MUST HAVE A 2" OVERSIZED TRIM RING FOR SPRINKLERS & OTHER PENETRATION.
11. CHANGES IN THE CEILING PLANE MUST HAVE POSITIVE BRACING.
12. CABLE TRAYS & ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED & BRACED.
13. IF PARTITIONS ARE ATTACHED TO THE SUSPENDED CEILING SYSTEM, THEY MUST BE LATERALLY BRACED TO THE BUILDING STRUCTURE.
14. VERTICAL HANGER WIRES ARE TO BE:
    14.1 NOT MORE THAN 4' ON CENTER
    14.2 MUST PLUMP WITHIN 1 IN 6
    14.3 TIED WITH THREE TURNS IN 3" OR LESS.
    14.4 MINIMUM 12 GAUGE GALVANIZED SOFT – ANNEALED, MILD STEEL WIRE.
15. PENDANT MOUNTED FIXTURES MUST BE SUPPORTED FROM THE STRUCTURE WITH NO LESS THAN 9 GAUGE WIRE.
    THEY MAY NOT USE THE CEILING SUSPENSION FOR SUPPORT.
16. LIGHT FIXTURES MUST BE POSITIVELY ATTACHED TO THE SUSPENDED SYSTEM. ATTACHED DEVICE MUST BE ABLE TO WITHSTAND 100 % OF THE FIXTURE WEIGHT.
17. IF THE LIGHT FIXTURE IS 56 POUNDS OR LESS, MUST HAVE TWO 12–GA. WIRES ATTACHED AT DIAGONAL CORNERS. IF MORE THAN 56 POUNDS MUST BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE.

SPLAY WIRE BRACING
Ref., ASTM E–580, SECTION 5.2.8.2 – 5.2.8.3

Lateral Force Bracing
Where substantiating design calculations are not provided, horizontal restraints shall be effected by four No. 12 gage wires secured to the main runners within 2 inches of the cross runner intersection and splayed 90 degrees from each other at an angle not exceeding 45 degrees from the plane of the ceiling. A strut fastened to the main runner shall be extended to and fastened to the structural members supporting the roof or floor above. The strut shall be adequate to resist the vertical component induced by the bracing wires. These horizontal restraint points shall be placed 12 feet on center in both directions with the first point within 6 feet from each wall. Attachment of the restraint wires to the structure above shall be adequate for the load imposed. Lateral force bracing members shall be spaced a minimum of 6 inches from all horizontal piping or duct work that is not provided with bracing restraints for horizontal forces. Bracing wires shall be attached to the grid and to the structure in such a manner that they can support a design load of not less than 250 pounds or two times the actual design load. wich ever is greater.

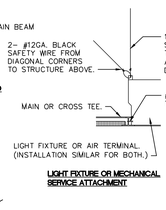
1 A5.4.1 SUSP. CLNG. DETAILS FOR SEISMIC CATEGORY D, E & F (PER ESR-1222)

1"=1'-0

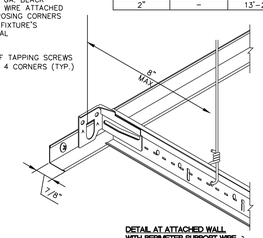


SEISMIC EXPANSION JOINT CLIP INSTALLED

INSTALLED MAIN BEAM SEISMIC JOINT CLIP

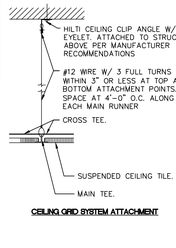


LIGHT FIXTURE OR MECHANICAL SERVICE ATTACHMENT



DETAIL AT ATTACHED WALL WITH PERIMETER SUPPORT WIRE

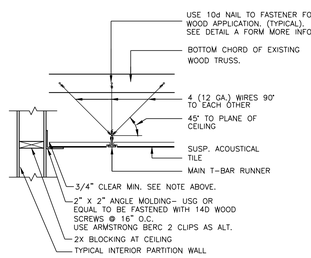
TRADE SIZE	ALLOWABLE LENGTH EMT	IMC OR RMC
1/2"	3'–10"	4'–4"
3/4"	5'–2"	5'–7"
1"	6'–6"	7'–0"
1 1/4"	8'–6"	9'–0"
1 1/2"	9'–10"	10'–5"
2"	–	13'–2"

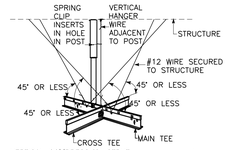


CEILING GRID SYSTEM ATTACHMENT

NOTES:

1. GRID SYSTEM TO BE HEAVY DUTY T–BAR.
2. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSING ANGLE. THE OTHER END SHALL HAVE A 0.75" CLEARANCE FROM THE WALL.
3. ENDS OF MAIN RUNNERS AND CROSS RUNNERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING
4. THE SUSPENDED CEILING SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C635, ASTM C636, ASTM E580 AND MANUFACTURER SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.



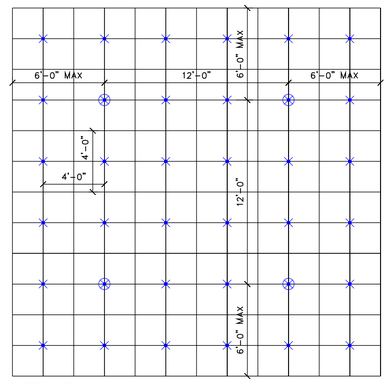


VERTICAL COMPRESSION STRUT

	(MAX. HEIGHT)
VSA 18/30	18"–30"
VSA 30/48	30" TO 48"
VSA 48/84	48" TO 84"
VSA 84/102	84" TO 102"
VSA 102/120	102" TO 120"
VSA 120/144	120" TO 144"

LATERAL FORCE BRACING: INSTALL BOLT TO SECURE ONE TUBE TO THE OTHER. TUBES SHALL LAP TO ONE ANOTHER AT LEAST 4" IN FULLY EXTENDED POSITION

COMPRESSION STRUT W/ LATERAL BRACING @ 12'–0" MAX. EA. DIRECTION & 6'–0" MAX. FROM PERIMETER WALLS



CEILING PLAN

VERTICAL COMPRESSION STRUT

LATERAL WIRE BRACING

NOTE: 12 GA. VERTICAL WIRES SHALL BE USED AT 48" O.C. PERIMETER HANGARS SHALL BE 8" MAX. FROM WALL AND NOT MORE THAN 1 IN 6 OUT OF PLUMB.

NOTES:

1. ACOUSTICAL TILE OR LAY–IN PANEL CEILINGS IN SEISMIC DESIGN CATEGORIES D SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C635, ASTM C636, AND ASTM E580, AND MANUFACTURER SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
2. ACOUSTICAL TILE OR LAY–IN PANEL CEILINGS SHALL ALSO COMPLY WITH THE FOLLOWING:

THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 IN. (50 MM). WHERE PERIMETER SUPPORTING CLIPS ARE USED, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE OR CHANNEL. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 IN. (19 MM) CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE OR CHANNEL.

PREPARED FOR:

CHASE

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SEAL

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

CEILING DETAILS

SHEET NUMBER

A5.4.1

STATEMENT OF SPECIAL INSPECTION:

PER IBC 2021, SECTION 1705, THE RETROFIT ANCHOR BOLT CONTAINED ON THESE PLANS WILL REQUIRE A SPECIAL INSPECTION. THE SEISMIC AND WIND-FORCE-RESISTING SYSTEM USED IS AN ARCHITECTURAL PARAPET BRACED ABOVE THE CENTER OF MASS. THE STRUCTURE WILL REQUIRE SPECIAL INSPECTIONS BE PERFORMED ON THE SEISMIC AND WIND-FORCE-RESISTING SYSTEM. THE OWNER IS REQUIRED TO CONTRACT WITH A QUALIFIED AND REGIONALLY APPROVED SPECIAL INSPECTION AGENCY MEETING THE REQUIREMENTS OF IBC 1704A.1. THE OWNER WILL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING THE SPECIAL INSPECTIONS DURING THE CONSTRUCTION WORK AS REQUIRED PER THE BELOW TABLE. OWNER IS TO PROVIDE BUILDING DEPARTMENT WITH REQUIRED NOTIFICATIONS UPON COMPLETION OF SPECIAL INSPECTION WITH DOCUMENTATION FROM THE SPECIAL INSPECTION AGENCY. ENGINEER OF RECORD IS TO BE NOTIFIED IF ANY VARIATIONS TO PLANS HAVE BEEN DONE DURING THE CONSTRUCTION OF THE ABOVE NOTED FORCE-RESISTING-SYSTEM.

TABLE 1705.3

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
4. Inspection of anchors post installed in hardened concrete members.	---	X	ACI318, 3.8.6, 8.1.3

STRUCTURAL STEEL

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL STRUCTURAL STEEL LENGTHS REQUIRED TO MAKE PROPER CONNECTIONS AS DETAILED IN PLANS. ALL DIMENSIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE ORDERING OF MATERIALS AND EOR SHALL NOT BE HELD LIABLE FOR MIS-ORDERED MATERIAL LENGTHS.
2. FABRICATION, ERECTION, AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, AND THE INTERNATIONAL BUILDING CODE, LATEST EDITIONS.
3. STRUCTURAL STEEL WIDE FLANGE SHAPED SHALL CONFORM WITH ASTM A992. ALL OTHER STRUCTURAL STEEL ROLLED SHAPED (CHANNELS, ANGLES, ETC.) AND PLATED SHALL CONFORM WITH ASTM A36, U.N.O.
4. ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A 500, GRADE B.
5. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL BASE PLATE AND SUPPORT CONDITIONS DURING ERECTIONS AND BRACING AS REQUIRED. SEE AISC AND OSHA REQUIREMENTS.
6. BOLTED CONNECTIONS SHALL CONSIST OF UNFINISHED BOLTS CONFORMING TO ASTM A307 U.N.O. WHERE HIGH STRENGTH BOLTS ARE INDICATED, BOLTS CONFORMING TO ASTM A325 OR ASTM A490 AS NEEDED SHALL BE PROVIDED. ANCHOR RODS CAST IN CONCRETE OR MASONRY SHALL BE HEADED BOLTS WITH CUT THREAD FULL DIAMETER BODY STYLE CONFORMING TO ASTM F1554 GR. 36, 55(WELDABLE PER S1 SUPPLEMENTARY REQUIREMENTS), OR 105 AS INDICATED ON DRAWINGS. ALL BOLTED CONNECTIONS AND BASE PLATES SHALL HAVE STANDARD CUT WASHERS, U.N.O. WASHERS FOR BASE PLATES SHALL CONFORM TO ASTM F844, U.N.O., AND SHALL BE PLACED AT TOP AND BOTTOM OF PLATE.
7. PROVIDE ½" DIAMETER STITCH BOLTS AND RING FILLS, SPACED AT NOT MORE THAN 2'-0" O.C. FOR ALL DOUBLE ANGLE MEMBERS.
8. AT WOOD TO STEEL PARALLEL CONTACT, BOLT WITH ½" DIAMETER BOLTS AT MAXIMUM 24" C.C.
9. HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER OF THE BOLT PLUS 1/16". USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.
10. WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARDS, USING ONLY CERTIFIED WELDERS. ALL GROOVE WELDS SHALL HAVE COMPLETE PENETRATION U.N.O. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. ALL ELECTRODES FOR WELDING SHALL COMPLY WITH AWS CODE, E70 SERIES MINIMUM.
11. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
12. MINIMUM FILLET WELDS: 3/16" @ T< ½"
¼" @ T< ¾"
5/16" @ T> ¾"
13. WELDING PROCEDURE SPECIFICATIONS (WPS) FOR SHOP AND FIELD PRE-QUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE PREPARED FOR REVIEW PRIOR TO FABRICATION. ALL WELDING PROCEDURE ITEMS SUCH AS BASE METALS, WELDING PROCESSES, FILLER METALS, AND JOINT DETAILS THAT MEET THE REQUIREMENTS OF AWS D1.1, SECTION 5.1 SHALL BE CONSIDERED PRE-QUALIFIED. ANY CHANGE OR SUBSTITUTION THAT IS BEYOND THE RANGE OR TOLERANCE OR REQUIREMENTS FOR PRE-QUALIFICATION SHALL BE QUALIFIED BY REST PER AWS D1.1 SECTION 5 PART B. QUALIFICATION TESTING IS REQUIRED WHEN THE DEPTH OF A PARTIAL PENETRATION OR COMPLETE PENETRATION WELD IS 2" OR GREATER.
14. FOR NONDESTRUCTIVE TESTING OF WELDED CONNECTIONS EXCLUDING PRIMARY MEMBERS OF MOMENT RESISTING FRAMES:
    - 14.a. WELDED CONNECTIONS SHALL BE TESTED BY NONDESTRUCTIVE METHODS FOR COMPLIANCE WITH AISC J2, AND JOB SPECIFICATIONS. ULTRASONIC TESTING SHALL BE IN ACCORDANCE WITH AWS D1.1, ASTM E164 AND ASME SECTION V. RADIOGRAPHY SHALL BE IN ACCORDANCE WITH AWSD1.1, ASTM E94 AND E99, AND ASME SECTION V. THIS TESTING SHALL BE PART OF THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704.3 PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY AS FOLLOWS:
    - 14.a.1. BASE METAL THICKER THAN 1 INCH WHEN SUBJECT TO THROUGH THICKNESS WELD SHRINKAGE STRAINS.
    - 14.a.2. ALL COMPLETE JOINT PENETRATION GROOVE OR BUTT WELDS.
    - 14.a.3. ALL PARTIAL JOINT PENETRATION GROOVE WELDS WHEN USED IN COLUMN SPLICES.
    - 14.b. ANY MATERIAL DISCONTINUOUS SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF DEFECTRACTING IN ACCORDANCE WITH THE (LARGER REFLECTOR) CRITERIA OF AISC J2.

COLD FORMED STEEL

1. NEW GALVANIZED: 43 MIL. THICK (22, 20 & 18 GA), ASTM A653, Fy = 50 KSI. 54 & 68 MIL. THICK (16 & 14 GA), ASTM A653, Fy = 50 KSI. GALVANIZE TO ASTM A924
2. NEW CONT. SILL TRACK & TOP TRACK 362T200-54 OR 600T20054 W/ #10 TEK SCREWS AT EACH FLANGE & ANCHOR BOLTS PER DETAILS
3. PARTITION WALL LIMITATIONS PER TABLES BELOW.
4. COAT CARBON SHEET STEEL PRODUCTS WITH RUST INHIBITIVE PAINT.
5. STUD DESIGNATIONS AND MINIMUM SECTION PROPERTIES PER STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) GUIDELINES.
6. STUD BRIDGING: COLD ROLLED CHANNEL, MINIMUM 1 1/2" DEEP WITH 9/16" FLANGE WIDTH. SPACE AT 4'-0" MAXIMUM.
7. BLOCKING MAY BE OMITTED WHEN WALLS ARE SHEATHED ON BOTH SIDES FULL HEIGHT.
8. PROVIDE DOUBLE STUDS AT JAMBS, U.N.O.

STUD SIZE	Fy	SPACING	UNBRACED HEIGHT
362S162-43	33 KSI	12" O.C.	21'-0"
362S162-43	33 KSI	16" O.C.	19'-1"
362S162-43	33 KSI	24" O.C.	16'-8"
600S162-43	33 KSI	12" O.C.	31'-2"
600S162-43	33 KSI	16" O.C.	28'-4"
600S162-43	33 KSI	24" O.C.	24'-9"

ABBREVIATIONS

AB	ANCHOR BOLT	MI	MALLEABLE IRON
BTWN	BETWEEN	(N)	NEW
CC	CENTER TO CENTER	PTDF	PRESSURE TREATED DOUGLAS FIR
CJ	CONSTRUCTION JOINT	PSL	PARALLEL STRAND LUMBER 2900Fb, 290Fv, 2.0E
CJT	CONTROL JOINT		
CLR	CLEAR	NTS	NOT TO SCALE
CONC	CONCRETE	OH	OPPOSITE HAND
CONTIN	CONTINUOUS	PC	PIECE
CP	COMPLETE PENETRATION	PP	PARTIAL PENETRATION
DF	DOUGLAS FIR	PW	PANEL WALL
DL	DEAD LOAD	RDWD	REDWOOD
(E)	EXISTING	SC	SHEAR CONNECTOR
EJ	EXPANSION JOINT	SDSTS	SELF DRILLING SLF TAPPING SCRW
EN	EDGE NAILING	SP	STRUCTURAL PLY
FB	FACE OF BLOCK	SPEN	STRUCTURAL PLY EDGE NAILING
FC	FACE OF CONCRETE	STFNR	STIFFENER
FF	FINISH FLOOR	STGGRD	STAGGERED
FLR	FLOOR	T&B	TOP & BOTTOM
FS	FACE OF STUD	T&G	TONGUE & GROOVE
FTG	FOOTING	TN	TOE NAIL
GA	GAUGE	TOF	TOP OF FRAMING
GLB	GLUED-LAMINATED BEAM	TOS	TOP OF STEEL
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HSB	HIGH STRENGTH BOLT (A-325)	W/	WITH
HT	HEIGHT	W/O	WITHOUT
JH	JOIST HANGER (SIMPSON)	WP	WORK POINT
LL	LIVE LOAD	WS	WOOD SCREW
LS	LAG SCREW	WWF	WELDED WIRE FABRIC
LSL	LAMINATED STRAND LUMBER 2325 Fb, 310 Fv, 1.55E	℄	CENTERLINE
		⏤	PLATE
LT WT	LIGHT WEIGHT	#	NUMBER OF POUNDS
LVL	LAMINATED VENEER LUMBER 2600Fb, 285Fv, 1.8E		SQUARE
		Ø	ROUND OR DIAMETER
MFR	MANUFACTURER		CONTINUOUS WOOD IN SECTION
			WOOD BLOCKING IN SECTION
			END OF WOOD PIECE

GENERAL CONSTRUCTION NOTES

1. THE INFORMATION ON THIS SET OF CONSTRUCTION DOCUMENT IS RELATED TO THE BASIC DESIGN INTENT AND FRAMING DETAILS. THEY ARE INTENDED AS A CONSTRUCTION AID, NOT A SUBSTITUTE FOR GENERALLY ACCEPTED GOOD BUILDING PRACTICES AND COMPLIANCE WITH CURRENT LOCAL STATE BUILDING CODES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING STANDARD CONSTRUCTION DETAILS AND PROCEDURES TO ENSURE A PROFESSIONALLY FINISHED, STRUCTURALLY SOUND, AND WEATHERPROOF COMPLETED PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK AND CONSTRUCTION MEETS ALL CURRENT FEDERAL, STATE, COUNTY, AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. THESE CODES ARE TO BE CONSIDERED PART OF THE SPECIFICATIONS FOR THIS BUILDING AND SHOULD BE ADHERED TO EVEN IF THEY ARE IN VARIANCE OF THE PLAN.
3. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWING (DO NOT SCALE DRAWING.)
4. THE ENGINEER HAS NOT BEEN ENGAGED FOR CONSTANT CONSTRUCTION SUPERVISION AND ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COORDINATING WITH THESE PLANS, NOR RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THERE ARE NO WARRANTIES FOR A SPECIFIC USE EXPRESSED OR IMPLIED IN THE USE OF THESE PLANS.
5. REFER TO ARCHITECTURAL SHEETS FOR FLOOR PLANS, EXTERIOR ELEVATIONS, AND WINDOW AND DOOR SIZES AND TYPES.

DESIGN CRITERIA

SEISMIC CRITERIA

SDC	D
SITE CLASS	D
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	1.00
SEISMIC FORCE RESISTING SYSTEM ON NON-STRUCT. COMPONENTS RESPONSE MODIFICATION FACTOR	2.5

S_s	0.837g
S_1	0.381g
S_{DS}	0.669g
S_{D1}	0.487g

GRAVITY LOADING
TENANT SPACE INCLUDES AN EXISTING CEILING STRUCTURE WITH POST-TENSIONED SLAB SYSTEM. ROOF LOADS NOT APPLICABLE FOR THIS TENANT IMPROVEMENT.

FLOOR LIVE	100psf
FLOOR DEAD	POST-TENSIONED SLAB
PARTITION WALL DEAD	10psf
WIND CRITERIA	
ULTIMATE WIND, Vult	97 mph
WIND EXPOSURE	C
SOIL BEARING	1500psf

CODES
ASCE 7-16, IBC 2021

STRUCTURAL INDEX

SN1 STRUCTURAL NOTES & SPECIFICATIONS
S1.0 GROUND LEVEL FLOOR PLAN
S2.0 CEILING PLAN
SD1 STRUCTURAL DETAILS

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

1209 MAIN ST.
VANCOUVER, WA 98660

ARCHITECT/ ENGINEER OF RECORD
WCD
916.751.9798 | WWW.WCDASSOCIATES.COM
6930 DESTINY DRIVE SUITE #300, ROCKLIN, CA 95677

SEAL



Date: 6/17/2026

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
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DRAWN BY:	ES
CHECKED BY:	AS, DG

MODEL

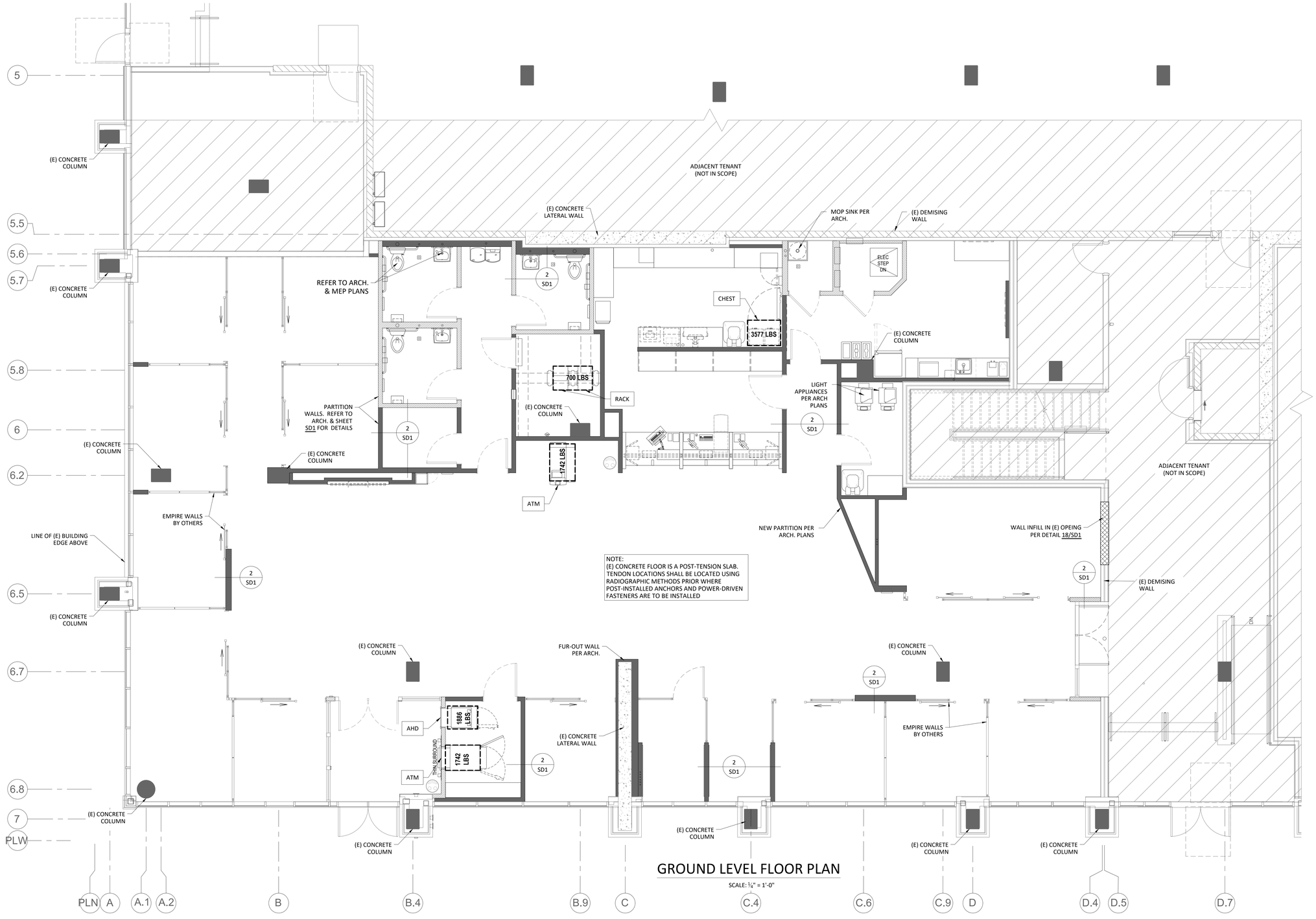
DRAWING STANDARDS v20.7

SHEET TITLE

STRUCTURAL NOTES AND SPECIFICATIONS

SHEET NUMBER

SN1



NOTE:
(E) CONCRETE FLOOR IS A POST-TENSION SLAB. TENDON LOCATIONS SHALL BE LOCATED USING RADIOGRAPHIC METHODS PRIOR WHERE POST-INSTALLED ANCHORS AND POWER-DRIVEN FASTENERS ARE TO BE INSTALLED

GROUND LEVEL FLOOR PLAN

SCALE: ¼" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR TO COORDINATE STRUCTURAL PLANS WITH ARCHITECTURAL FOR BEST INSTALLATION INSTRUCTIONS. NOTIFY STRUCTURAL ENGINEER AND/OR ARCHITECT OF ANY PLAN DISCREPANCIES.
2. REFER TO STRUCTURAL DETAIL SHEET SD1 FOR SPECIFIC AND STANDARD DETAIL TYPES
3. COLUMNS SHOWN ON THE FOUNDATION PLAN ARE THOSE DIRECTLY CONNECTED TO THE FOUNDATION WITH A POST BASE CONNECTOR PER DETAIL SHEET
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS AGAINST THE ARCHITECTURAL PLAN SET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND DESIGNER BEFORE FORMING AND/OR POURING CONCRETE.
5. LIGHT GAUGE METAL STUD FRAMING NOTES: REFER TO NOTES ON STRUCTURAL PLAN SHEET SN1

EXISTING CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS, ELEVATION, AND MEMBER SIZES PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
2. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING STRUCTURAL SYSTEM. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER OF RECORD SHALL BE IMMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OR MODIFICATION OF MEMBERS.
3. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO EXISTING FRAMING CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP. CONTACT THE ENGINEER OF RECORD TO VERIFY THE PROPOSED REPAIR SOLUTION.

DEMOLITION SHORING NOTES:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF ALL DEMOLITION WORK AND FOR PROVIDING ALL NECESSARY TEMPORARY SHORING, BRACING AND PROTECTION AS NECESSARY FOR SAFETY, STABILITY AND PROTECTION OF ALL EXISTING ELEMENTS AND STRUCTURE TO REMAIN. TEMPORARY SHORING AND BRACING SHALL BE ADEQUATE TO RESIST ALL APPLIED LOADS INCLUDING DEAD LOAD, LIVE LOADS, SNOW LOADS AND CONSTRUCTION LOADS, TO PROVIDE STABILITY, AND TO PROVIDE FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL ANY REQUIRED MODIFICATIONS TO THE STRUCTURE ARE COMPLETED.

EQUIPMENT ANCHORAGE SCHEDULE

XXX

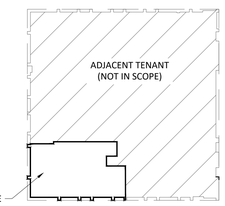
NAME	QTY	WEIGHT	ANCHORAGE TYPE	ANCHORAGE QTY	ANCHORAGE hnom|hef	ANCHORAGE SURFACE	DESCRIPTION DETAIL CALLOUT
ATM	2	1,742 LB	½"Ø STRONG -BOLT 2	6 MIN.	2.75"	(E) PT CONC. SLAB (MIN. 10")	17/SD1
CHEST	1	3,577 LB	⅝"Ø STRONG -BOLT 2	2	3.125"	(E) PT CONC. SLAB (MIN. 10")	14/SD1
RACK	2	350 LB EACH	½"Ø STRONG -BOLT 2	4	3.00"	(E) PT CONC. SLAB (MIN. 10")	16/SD1 6 ANCHOR PER RACK
AHD	1	1,886 LB	½"Ø STRONG -BOLT 2	2	2.25"	(E) PT CONC. SLAB (MIN. 10")	15/SD1

NOTE: ALL EMBEDMENT INTO (E) SLAB SHALL OCCUR IN THE 4" CONCRETE SLAB LAYER. FOR ALL POSSIBLE SLAB LAYERS ON SITE REFER TO DETAIL 2/SD1

EQUIPMENT OVERALL DIMENSIONS (W X D X H):
(DIMENSIONS ARE SUBJECT TO CHANGE - COORDINATE WITH ARCH. PLANS)

ATM	41.7" X 45.5" X 61.8"
CHEST	38" X 26" X 72
AHD	24" X 37" X 48"
RACK	24" X15" X 84"

KEY PLAN



PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

1209 MAIN ST.
VANCOUVER, WA 98660

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6930 DESTINY DRIVE SUITE #800, ROCKLIN, CA 95677

SEAL



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CHECKED BY:	AS, DG

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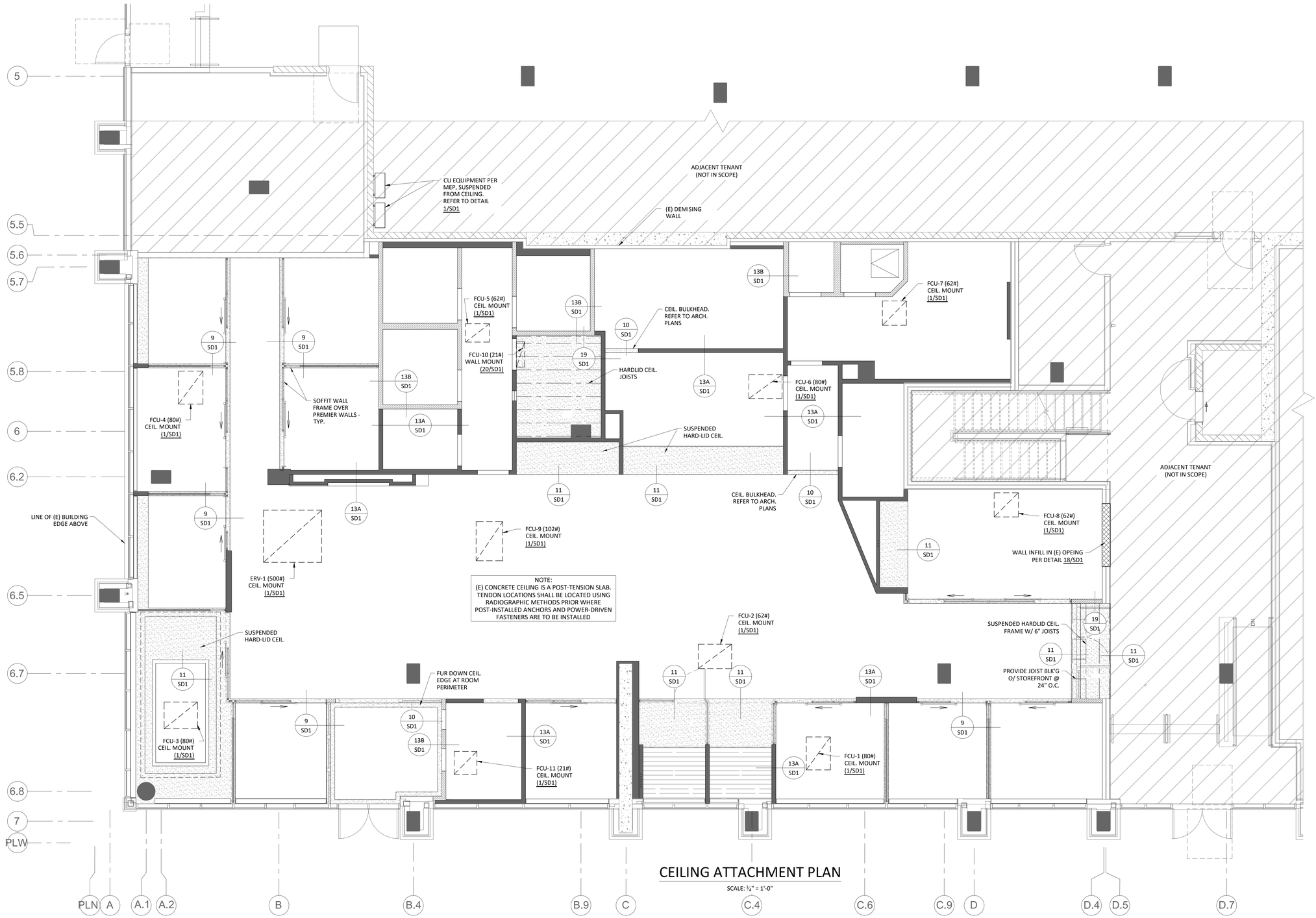
DRAWING STANDARDS v20.7

SHEET TITLE

GROUND LEVEL FLOOR PLAN

SHEET NUMBER

S1.0



CEILING ATTACHMENT PLAN

SCALE: ¼" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR TO COORDINATE STRUCTURAL PLANS WITH ARCHITECTURAL FOR BEST INSTALLATION INSTRUCTIONS. NOTIFY STRUCTURAL ENGINEER AND/OR ARCHITECT OF ANY PLAN DISCREPANCIES.
2. REFER TO STRUCTURAL DETAIL SHEET SD1 FOR SPECIFIC AND STANDARD DETAIL TYPES
3. COLUMNS SHOWN ON THE FOUNDATION PLAN ARE THOSE DIRECTLY CONNECTED TO THE FOUNDATION WITH A POST BASE CONNECTOR PER DETAIL SHEET
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS AGAINST THE ARCHITECTURAL PLAN SET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND DESIGNER BEFORE FORMING AND/OR POURING CONCRETE.
5. LIGHT GAUGE METAL STUD FRAMING NOTES: REFER TO NOTES ON STRUCTURAL PLAN SHEET SN1
6. CEILING MOUNT MECHANICAL EQUIPMENT TO STRUCTURE ABOVE PER DETAIL 1/SD1.
7. WALL MOUNT MECHANICAL EQUIPMENT PER DETAIL 18/SD1.

EXISTING CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND VERIFY DIMENSIONS, ELEVATION, AND MEMBER SIZES PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
2. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING STRUCTURAL SYSTEM. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER OF RECORD SHALL BE IMMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OR MODIFICATION OF MEMBERS.
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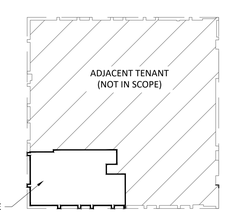
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CEILING LEGEND

- (E) WALL
- NEW SOFFIT WALL FRAME
- PARTIAL HEIGHT METAL STUD WALLS W/ DIAGONAL BRACING AT TOP - SEE METAL STUD SIZE AND SPACING TABLES ON SHEET SN1
- FULL HEIGHT METAL STUD WALL TO UNDERSIDE OF (E) CONCRETE CEILING - SEE METAL STUD SIZE AND SPACING TABLES ON SHEET SN1

KEY PLAN



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CHECKED BY:	AS, DG

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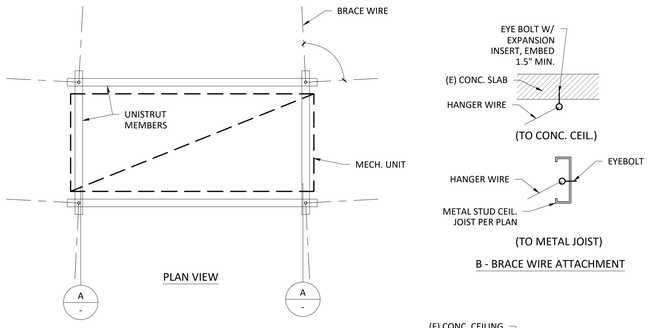
DRAWING STANDARDS v20.7

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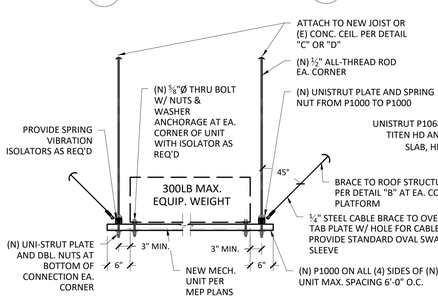
CEILING ATTACHMENT PLAN

SHEET NUMBER

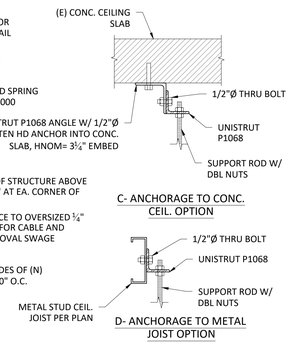
S2.0



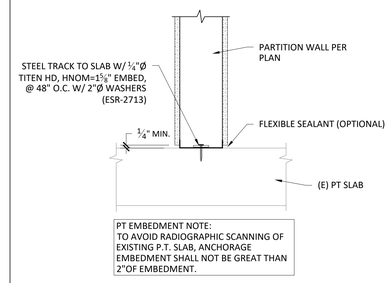
B - BRACE WIRE ATTACHMENT



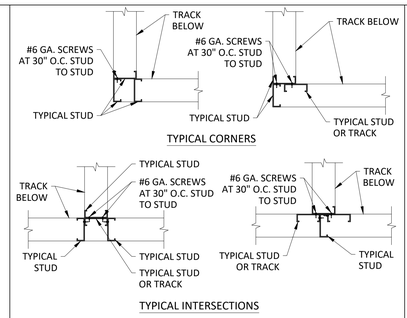
A - SECTION VIEW



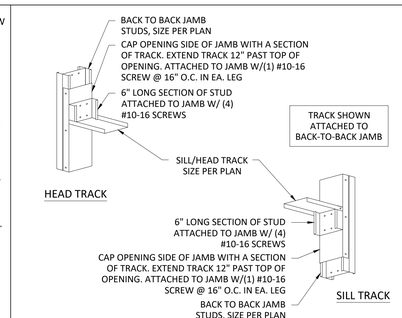
CEILING MOUNT MECHANICAL EQUIPMENT | 1



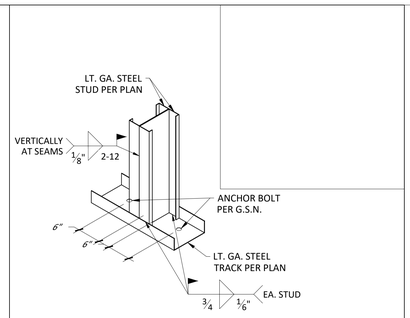
PARTITION STEEL STUD WALL TO CONC. SLAB | 2



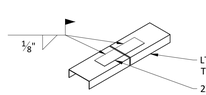
TYPICAL STEEL STUD WALL CONNECTIONS | 3

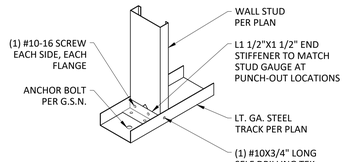


HEAD/ SILL TRACK CONNECTION | 4

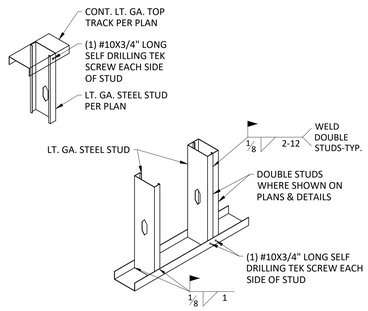


MULTIPLE STUDS/ COLUMN- WELDED | 5

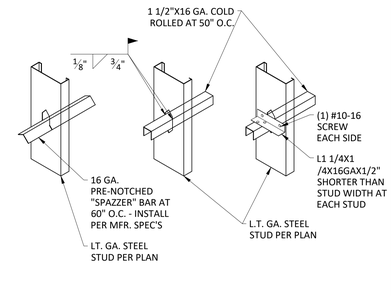




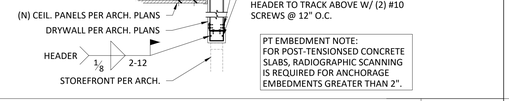
TYPICAL SPLICE IN TOP TRACK & STUD WALL TO SILL TRACK ATTACHMENT | 6



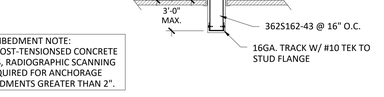
TYPICAL STEEL STUD TO TRACK | 7



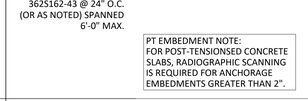
BRIDGING ATTACHMENT | 8



STOREFRONT SOFFIT WALL FRAME | 9



BULKHEAD FRAME ATTACHMENT - TYP. | 10



CEILING SOFFIT FRAME ATTACHMENT | 11



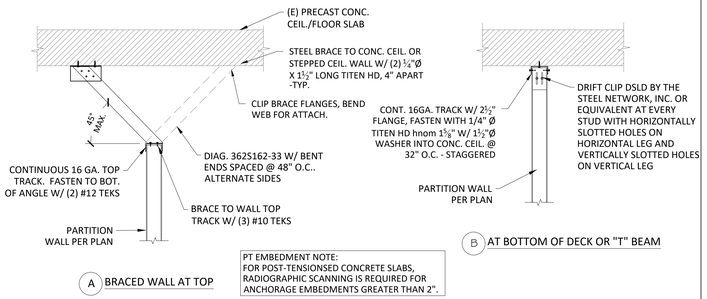
CEILING SUSPENSION COMPRESSION POST | 12



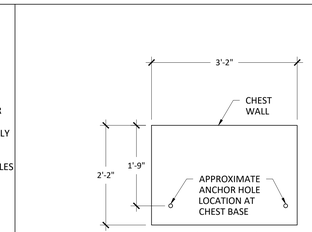
NOTE:

1) REFER TO ARCHITECTURAL PLANS FOR ASSEMBLY DETAILS

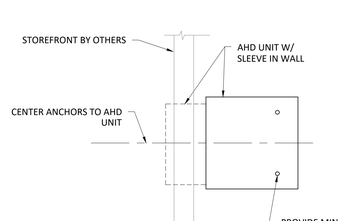
2) FOR POST-TENSIONSED CONCRETE SLABS, RADIOGRAPHIC SCANNING IS REQUIRED FOR ANCHORAGE EMBEDMENTS GREATER THAN 2".



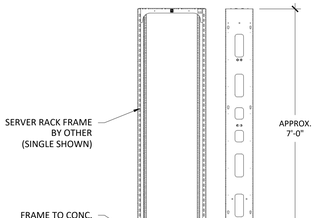
TYP. PARTITION WALL PARALLEL TO ROOF JOISTS | 13



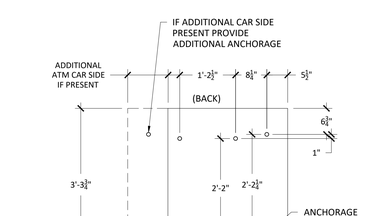
CHEST ANCHORAGE | 14



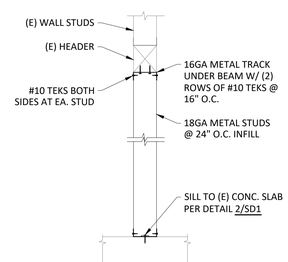
AHD ANCHORAGE | 15

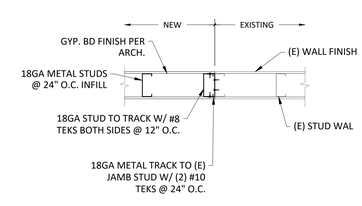


SERVER RACK ANCHORAGE | 16

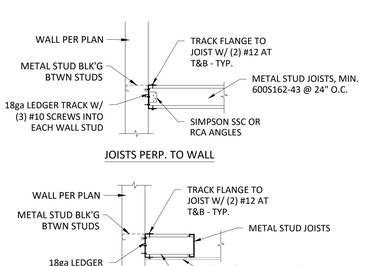


ATM ANCHORAGE | 17

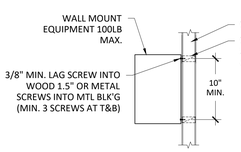




WALL INFILL DETAILS | 18



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WALL MOUNT MECHANICAL EQUIPMENT | 20

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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SEAL



Date: 6/17/2026

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	C8R25008.0
DATE:	10/15/2025
DRAWN BY:	ES
CHECKED BY:	AS, DG

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

SD1

GENERAL NOTES

GENERAL NOTES - MECHANICAL

1. REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).

2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.

3. CODES: COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.

4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL DUCTWORK, DAMPERS, EQUIPMENT, PIPING, ETC.
   A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL.
   B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK.
   C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.
   D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.

5. MECHANICAL CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITHIN THE STRUCTURE.

6. EXHAUST OUTLETS: SOURCE-SPECIFIC FANS SHALL BE VENTED TO OUTDOORS WITH A MINIMUM 3' CLEARANCE BETWEEN VENT OUTLETS AND BUILDING OPENINGS, AND 10' MINIMUM BETWEEN VENT OUTLETS AND MECHANICAL AIR INTAKES.

7. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.

8. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.

9. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT. VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

10. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH THE 2018 SEATTLE MECHANICAL CODE.

11. HEATING AND COOLING EQUIPMENT AND SYSTEMS CAPACITY DO NO EXCEED THE LOADS CALCULATED IN ACCORDANCE WITH SECTION 503.2.1 OF THE 2018 SEATTLE ENERGY EFFICIENCY CODE. THE REPORTED EFFICIENCIES OF THE EQUIPMENT HAVE BEEN TESTED AND RATED IN ACCORDANCE WITH THE APPLICABLE TEST PROCEDURE. THE EFFICIENCY HAS BEEN VERIFIED THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM OR, IF NO CERTIFICATION PROGRAM EXISTS, THE EQUIPMENT EFFICIENCY RATINGS ARE SUPPORTED BY DATA FURNISHED BY THE MANUFACTURER.

12. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 SEATTLE MECHANICAL CODE.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.

2. ALL AIR DISTRIBUTION SYSTEMS DUCTS AND PLENUMS SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF SECTION 604 OF THE 2018 SEATTLE MECHANICAL CODE: SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM LEVEL OF R-8, UNLESS DUCTS ARE IN A CONDITIONED SPACE.

2. EXTENT OF INTERNAL DUCT LINING:
   A. GRILLE AND DIFFUSER BOXES AND BOOTS.
   B. TRANSFER DUCTS.

3. EXTENT OF EXTERNAL DUCT INSULATION:
   A. SUPPLY AND RETURN AIR IN UNCONDITIONED SPACES, MECHANICAL ROOMS, ELECTRICAL ROOMS, AND EQUIPMENT ROOMS NOT SPECIFIED TO BE INTERNALLY LINED.
   B. SUPPLY AIR ABOVE CEILINGS OR EXPOSED NOT SPECIFIED TO BE INTERNALLY LINED.
   C. OUTDOOR AIR INTAKE.

4. MISCELLANEOUS DUCT FITTINGS (CONICAL TAKEOFFS, ETC.): WRAP WITH INSULATION FOR CONDENSATION CONTROL.

5. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 123-A.

COORDINATION REQUIREMENTS

1. DUCTWORK: LOCATE AND COORDINATE THE EXACT LOCATION OF DUCTWORK WITH STRUCTURAL PLANS AND WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY STRUCTURE OR EQUIPMENT. COORDINATE WITH FRAMING CONTRACTOR TO ASSURE JOIST SPACES LINE UP WHEN DUCTWORK MUST PASS THROUGH DIFFERENT JOIST SPACES.

CONTROLS

1. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS AS APPLICABLE:
   a) EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO THE TEMPERATURE WITHIN THE ZONE AND MEETS THE APPLICABLE REQUIREMENTS OF SUBSECTION(b).
   b) EACH THERMOSTATIC CONTROL REQUIRED BY SUBSECTION(a) SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY ADJUSTMENT OR SELECTION OF SENSORS TO CONTROL:
      1) COMFORT HEATING DOWN TO 55°F OR LOWER.
      2) COMFORT COOLING UP TO 85°F OR HIGHER.
      3) BOTH HEATING AND COOLING, THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.

2. EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH ITEMS 1 AND 2 BELOW:
   1) ARE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NON-USE AND SHALL HAVE:
      a) AN AUTOMATIC TIME SWITCH CONTROL DEVICE COMPLYING WITH SECTION 119(c). WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM FOR UP TO 4 HOURS;
      OR
      b) AN OCCUPANCY SENSOR; OR
      c) A FOUR-HOUR TIMER THAT CAN BE MANUALLY OPERATED.
   EXCEPTION: MECHANICAL SYSTEMS SERVING RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, CHURCHES, AND THEATERS EQUIPPED WITH 7-DAY PROGRAMMABLE TIMERS.
   2) AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN:
      a) A SETBACK HEATING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL HEATING; AND
   EXCEPTION: AREA WITH THE DESIGN WINTER OUTDOOR TEMPERATURE OF GREATER THAN 32°F.
      b) A SETUP COOLING THERMOSTAT SETPOINT, IF THE SYSTEM PROVIDES MECHANICAL COOLING.
   EXCEPTION: AREA WITH THE DESIGN SUMMER OUTDOOR TEMPERATURE OF LESS THAN 100°F.

3. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F.

4. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

VENTILATION

1. CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.

2. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.

3. ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.

4. THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 121(b)2, OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.

COMPLETION AND BALANCING

ALL VENTILATION SYSTEMS SHALL BE DOCUMENTED PER CALIFORNIA SAFETY CODE (TITLE 8, SECTION 5142 (B) TO BE PROVIDING THE MINIMUM REQUIRED VENTILATION RATE AS DETERMINED USING ONE OF THE FOLLOWING PROCEDURES:

1. AIR BALANCING: ALL SPACE-CONDITIONING AND VENTILATIONSYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983) OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989).

2. OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.

3. OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE.

4. ANOTHER METHOD APPROVED BY THE ENERGY COMMISSION.

ADMINISTRATIVE REQUIREMENTS

1. THE PERSON WITH OVERALL RESPONSIBILITY OR THE PERSON RESPONSIBLE FOR THE INSTALLATION OF REGULATED MANUFACTURED DEVICES SHALL POST, OR MAKE AVAILABLE WITH THE BUILDING PERMIT(S) ISSUED FOR THE BUILDING, THE INSTALLATION CERTIFICATE(S) FOR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE EFFICIENCY REGULATIONS. SUCH INSTALLATION CERTIFICATES SHALL BE MADE AVAILABLE TO THE ENFORCEMENT AGENCY FOR ALL APPROPRIATE INSPECTIONS. THESE CERTIFICATES SHALL:
   a) IDENTIFY FEATURES REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE EFFICIENCY REGULATIONS.
   b) INCLUDE A STATEMENT INDICATING THAT THE INSTALLED DEVICES CONFORM TO THE APPLIANCE EFFICIENCY REGULATIONS AND PART 6 AND THE REQUIREMENTS FOR SUCH DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY.
   c) STATE THE NUMBER OF THE BUILDING PERMIT UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PERFORMED.
2. THE APPLICANT SHALL FILE ALL CERTIFICATE(S) OF ACCEPTANCE, WITH THE ENFORCEMENT AGENCY PRIOR TO RECEIVING A FINAL OCCUPANCY PERMIT. THE SIGNER(S) SHALL BE ELIGIBLE UNDER DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE TO SIGN SUCH DOCUMENTS.
3. THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR THE PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING:
   a) OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY.
   b) MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL.
   c) VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AIR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
4. CERTIFICATE OF OCCUPANCY AND ALL REQUIRED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

MECHANICAL LEGEND

SYMBOL	ABBR.	DESCRIPTION
	CD	CEILING DIFFUSER - SUPPLY
	CD	CEILING DIFFUSER BELOW DUCT - SUPPLY
	SAD	RISER - SUPPLY AIR DUCT
	SAD	DROP - SUPPLY AIR DUCT
	CR	CEILING REGISTER - RETURN
	CR	CEILING REGISTER BELOW DUCT - RETURN
	RAD	RISER - RETURN AIR DUCT
	RAD	DROP - RETURN AIR DUCT
	CE	CEILING REGISTER - EXHAUST
	CE	CEILING REGISTER BELOW DUCT - EXHAUST
	EAD	RISER - EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	VD	MANUAL VOLUME DAMPER
	FC	FLEXIBLE CONNECTION
		NEW DUCT
TAG CFM		AIR DEVICE DESIGNATION
T	TSTAT	PROGRAMMABLE THERMOSTAT
TS	SENS	REMOTE TEMPERATURE SENSOR
S	SD	SMOKE DETECTOR
	CFM	CUBIC FEET PER MINUTE
	S/A	SUPPLY AIR
	O/A	OUTSIDE AIR
	E/A	EXHAUST AIR
	S.P.	STATIC PRESSURE
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AH	AIR HANDLING UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
COP	COEFFICIENT OF PERFORMANCE
DIM	DIMENSION
DN	DOWN
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FAHRENHEIT
FC	FAN COIL UNIT
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
G	GAS
GRD	GRILLES, REGISTERS, AND DIFFUSERS
HP	HORSEPOWER, HEAT PUMP
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IN	INCH
KW	KILOWATT
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
OSA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RD	ROOF DRAIN
REF	REFERENCE
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
TYP	TYPICAL
V	VENT
WB	WET BULB (TEMPERATURE)

SEQUENCE OF OPERATIONS

BUILDING MANAGEMENT SYSTEM:

- VRF FORCED-AIR SYSTEMS (INCLUDING "DUCTLESS"), AND THE EXHAUST FAN SYSTEM ARE TO BE MONITORED BY THE BUILDING MANAGEMENT SYSTEM (BMS). MECHANICAL INSTALLER SHALL COORDINATE WITH THE PROJECT ELECTRICIAN FOR
- CONTROL AND MONITORING DEVICE PROVISION AND INSTALLATION FROM THE COMMON BMS VENDOR.

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 DEG F (ADJ) IN THE COOLING MODE AND 70 DEG F (ADJ) IN THE HEATING MODE
- DURING UNOCCUPIED PERIODS, THE SPACE TEMPERATURE SHALL MAINTAIN 75 DEG F (ADJ) IN THE COOLING MODE AND 65 DEG F (ADJ) IN THE HEATING MODE.

HVAC UNITS

- UPON RECEIVING A SIGNAL FROM THE TEMPERATURE CONTROL SYSTEM FOR OCCUPIED HOURS, THE VRF SYSTEM 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. ONCE
- THE TEMPERATURE CONTROL SYSTEM SHALL MAINTAIN THE COOLING AND HEATING SETPOINTS:
  - COOLING:
    - UPON SENSING A ROOM TEMPERATURE RISE ABOVE COOLING SET POINT THE UNIT CONTROLLER SHALL INITIATE THE DX COOLING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
    - THE COMPRESSOR SHALL ENERGIZE AFTER ITS MINIMUM 3-MINUTE OFF TIME HAS EXPIRED. ONCE THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE COMPRESSOR SHALL BE DEACTIVATED.
  - HEATING
    - WHEN THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, THE UNIT CONTROLLER SHALL ENABLE THE ELECTRIC HEATING STAGES TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
    - ONCE THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE ELECTRIC HEATING STAGES SHALL BE DISABLED.

ENERGY RECOVERY UNITS

- UPON RECEIVING A SIGNAL FROM THE TEMPERATURE CONTROL SYSTEM FOR OCCUPIED HOURS, THE ERV FANS SHALL ENERGIZE AND REMAIN ON DURING OCCUPIED HOURS.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

CHASE BANK GENERAL NOTES

CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THERMOSTATS, SWITCHES, FLOOR AND WALL RECEPTACLES, CARD READER, DOOR ACTUATOR, J-BOXES, ETC. WITH ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT THE ARCHITECT IN CASE OF ANY DISCREPANCIES AND AWAIT FOR A WRITTEN RESPONSE PRIOR TO PROCEEDING WITH THE WORK.

SPECIFICATION SECTION 230593 EXPLICITLY REQUIRES A TEST AND BALANCE REPORT WHICH MUST BE SUBMITTED TO THE CONSTRUCTION TEAM AND ENGINEER OF RECORD. THE PROJECT WILL NOT BE ACCEPTED AS COMPLETE BY THE OWNER WITHOUT THE EOR'S REVIEW AND ACCEPTANCE OF THAT REPORT.

THE OWNER'S FACILITY MANAGER MUST BE INVITED TO MECHANICAL AND ELECTRICAL SUBCONTRACTOR KICKOFF MEETINGS, AND PERIODIC MEETINGS AND WALK-THROUGHS INVOLVING MECHANICAL AND ELECTRICAL WORK.

PROJECT INFORMATION

APPLICABLE CODE: 2021 WASHINGTON STATE MECHANICAL CODE
2021 WASHINGTON STATE ENERGY CODE
2021 WASHINGTON STATE BUILDING CODE

DRAWING INDEX

M0.0	LEGEND, NOTES, SCHEDULES, & DRAWING INDEX
M0.1	MECHANICAL DETAILS
M2.0	MECHANICAL CONTROL PLAN
M2.1	MECHANICAL FLOOR PLAN

SCHEDULES

DIFFUSER AND GRILLE SCHEDULE

TAG	TYPE	REFL. CEILING PLAN DESIGNATION (NOTE 15)	MANUFACTURER AND MODEL	SIZE	FINISH	ACCESSORIES / TRIM / DETAILS	NOTES
A	2x2 GRID CEILING SA DIFFUSER	---	TITUS OMNI-NT	24" x 24"	WHITE	AG-75, DB	1-5, 8, 10, 15
B	2x2 GRID CEILING RA/EA GRILLE	---	TITUS PAR	24" x 24"	WHITE	BORDER 3	1-3, 7, 8, 10, 11, 15
C	3' GRID LINEAR SLOT SA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
D	3' GRID LINEAR SLOT RA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
E	4' GRID LINEAR SLOT SA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
F	4' GRID LINEAR SLOT RA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
G	5' GRID LINEAR SLOT SA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
H	5' GRID LINEAR SLOT RA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
I	6' GRID LINEAR SLOT SA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
J	6' GRID LINEAR SLOT RA DIFFUSER- 'TECHZONE'	TZ-SA/RA/BLANK	TITUS 4" FL-TZ	1" SLOT	WHITE	BORDER DF	1-3, 6, 7, 8, 12, 15
K	6' GRID LINEAR SLOT SA DIFFUSER- CONTINUOUS	CONT-SA/RA/BLANK	TITUS FL-10	1" SLOT	WHITE	BORDER 11	1-3, 6, 7, 8, 11, 12, 13, 15
L	6' GRID LINEAR SLOT SA DIFFUSER- CONTINUOUS	CONT-SA/RA/BLANK	TITUS FL-10	1" SLOT	WHITE	BORDER 11	1-3, 6, 7, 8, 11, 12, 13, 15
M	4' GRID LINEAR SLOT SA DIFFUSER- 'FLOWBAR'	FL-SA/RA	TITUS 4" FL-10/15/20	1"/1.5"/2" SLOT	WHITE	BORDER 11	1-3, 6, 7, 8, 11, 12, 13, 15
N	4' GRID LINEAR SLOT RA DIFFUSER- 'FLOWBAR'	FL-SA/RA	TITUS 4" FL-10/15/20	1"/1.5"/2" SLOT	WHITE	BORDER 11	1-3, 6, 7, 8, 11, 12, 13, 15
O	AIR NOZZLE (DIFFUSER) WITH CORE	SA	PRICE ANR/AND	3"Ø OPENING	BLACK	--	1, 3, 8,15
P	EXHAUST GRILLE	---	TITUS 350RL	12"x12"	WHITE	BORDER 1	1-3, 8-11

MECHANICAL FIXTURE NOTES
1. COORDINATE WITH LIGHT FIXTURES AND OTHER CEILING DEVICES FOR EXACT LOCATIONS OF ALL AIR FIXTURES.
2. COORDINATE FRAME STYLES WITH CEILING OR WALL SYSTEM FRAMING AND FINISH MATERIALS. PROVIDE GYPSUM BOARD / PLASTER FRAME TO SUPPORT FIXTURE WITHIN GYPSUM CEILNG.
3. N.C. VALUES FOR DIFFUSERS, GRILLES AND REGISTERS SHALL NOT EXCEED 25, WITH A ROOM ABSORPTION RATE OF 10db.
4. PROVIDE BACK SIDE OF SUPPLY AIR FIXTURES WITH FACTORY-INSTALLED R-6 INSULATION BLANKET.
5. PROVIDE DIRECTIONAL BLOW CLIPS (1-3) AS REQD. FOR DIRECTIONAL AIRFLOW CONTROL.
6. REFER TO PLAN FOR LINEAR SLOT FIXTURE LENGTHS.
7. WHERE PLENUM RETURNS ARE UTILIZED, CONCEAL VISIBILITY TO PLENUM SPACE BY PROVIDE DUCT BOOT SECURED TO CEILING FRAMING OR OPTIONAL OPPOSABLE BLADE DAMPERS FOR 2X2 RA GRILLES, AND'FBR' RETURN HOODS AT LINEAR SLOT RA FIXTURES. WHERE RETURN AIR FLOW CONTROL IS REQUIRED, PROVIDE OPTIONAL OPPOSABLE BLADE DAMPERS IN THE 2X2 GRILLES, AND 'FBBO' BLANK-OFFS IN THE LINEAR SLOT FIXTURES. AIR FLOW IS NOT TO BE ADJUSTED BY RE-SIZING OF THE FIXTURE GRILLE AREA.
8. "OR EQUAL" SUBSTITUTIONS PERMITTED. SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT OF RECORD BY THE PROCESS DEFINED IN THE PROJECT MANUAL.
9. EXHAUST GRILLES ARE TO BE DUCTED TO THE ROOF CENTRIFUGAL EXHAUST FAN SYSTEM, WHICH IS CONTROLLED BY 4-WAY SWITCH WIRING AT THE VARIOUS DRAW LOCATIONS. MECHANICAL INSTALLER SHALL COORDINATE WITH THE ELECTRICIAN FOR EQUIPMENT AND CONTROL DEVICE PROVISION AND INSTALLATION. REFER TO SHEET E5.
10. ALL SA, RA, AND EXHAUST FIXTURES IN 2X2 CEILNG GRIDS SHALL BE 24" X 24" FULL FIXTURES. THE USE OF REDUCED VENT AREAS WITHIN LARGER PLATES TO RESTRICT AIR FLOW IS NOT PERMITTED. AIR FLOW CONTROL IS TO BE PROVIDED BY ADJUSTABLE DAMPERS WITHIN THE DUCTS OR BOOTS SERVING THE FIXTURES.
11. SPECIFY EDGE DETAIL / BORDER TYPE FOR COMPATIBILITY WITH GYPSUM BOARD CEILINGS WHERE REQUIRED.
12. LINEAR SLOT FIXTURES ARE INTENDED TO HAVE A CONTINUOUS, SEAMLESS APPEARANCE FOR THE FULL RUN OF THE CEILING FINISH AS INDICATED IN PLAN, WITHOUT VISUAL DIFFERENTIATION BETWEEN SA, RA, AND UNUSED PORTIONS OF THE RUN. PROVIDE OPTIONAL 'FBR' RETURN HOODS AND 'FBBO' BLANK-OFFS AS REQUIRED.
13. PROVIDE TITUS (OR EQUAL) FBMC-10 MITERED CORNERS.
14. FLOWBAR DIFFUSER TYPE TO BE SPECIFIED IN PRIVATE OFFICES ONLY. SPECIFY SLOT DIFFUSER WIDTH AS REQD. TO MEET AIR DISTRIBUTION REQUIREMENTS IN THE HIGHEST-DEMAND OFFICE, AND APPLY THAT DIFFUSER THROUGHOUT ALL OFFICES.
15. REFER TO REFLECTED CEILING PLAN, SHEET A1.2.

SPLIT SYSTEM COOLING ONLY UNIT SCHEDULE

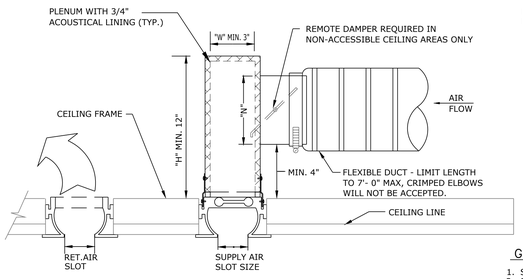
TAG	SERVICE	LOCATION	CFM LOW/MED/HIGH	ELECTRICAL VOLT	Ø	Hz	EFFICIENCY SEER	EER	MANUFACTURER & MODEL	WEIGHT (LBS)	REMARKS
FCU-10	DATA ROOM	WALL	247/316/436	208	1	60	21.0	12.5	DAIKIN FTKF12BVJU9	21	1,2,3,4,5
FCU-11	24 HR ATM	WALL	247/316/436	208	1	60	21.0	12.5	DAIKIN FTKF12AVJU	21	1,2,3,4,5

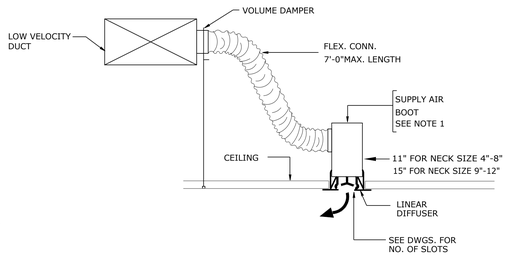
TAG	SERVICE	LOCATION	NOM. TONS	COOLING TOTAL MBH	COOLING SENS. MBH	ELECTRICAL V.	Ø	Hz	MCA	MOCP	MANUFACTURER & MODEL	WEIGHT (LBS)	REMARKS
CU-1	DATA ROOM	GARAGE	1.0	12.0	9.5	208	1	60	9.2	15.0	DAIKIN RKF12BVJU9	60	1,2
CU-2	24 HR ATM	GARAGE	1.0	12.0	9.5	208	1	60	9.2	15.0	DAIKIN RKF12AVJU	60	1,2

REMARKS
1. PROVIDE THERMAL OVERLOAD PROTECTION.
2. PROVIDE LIQUID LINE SPECIALTIES INCLUDING FILTER DRIER, SIGHT GLASS, TXV, SOLENOID VALVE, 24V 1ph CONTROL WIRE BY CONTROLS CONTRACTOR.
3. DAINTREE TO PROVIDE BUILDING ENERGY MANAGEMENT SYSTEM (BMS). EQUIPMENT SHALL BE PROVIDED WITH ELECTROMECHANICAL CONTROLS ONLY; DAINTREE TO PROVIDE WI-FI COMMUNICATING THERMOSTATS.
4. PROVIDE WITH EXTERNAL CONDENSATE PUMP.
5. FAN COIL UNIT POWERED BY CONDENSING UNIT.
6. CONTRACTOR SHALL VERIFY DISTANCE FROM THE INDOOR UNIT TO THE OUTDOOR UNIT IS WITHIN THE MAXIMUM LENGTH OF THE REFRIGERANT LINE.

TAG	SERVICE	MANUFACTURER	MODEL	NOMINAL TONS	COOLING CAPACITY CAPACITY (MBH)	EER/IEER	HEATING CAPACITY CAPACITY (MBH)	COP	REFRIGERANT CHARGE (LBS)	% NOMINAL CONNECTED CAPACITY	ELECTRIC VOLTAGE	MCA	MOCP	SOUND PRESSURE LEVEL (DBA)	WEIGHT (LBS)
HP-1	BANK	DAIKIN	REYQ168AAYDB	14	162.0	12.0/22.5	189.0	3.4/2.1	-	114	208/3	60.2	70	250	827

REMARKS
1. INSTALL UNITS AS SHOWN AND AS RECOMMENDED BY THE MANUFACTURER



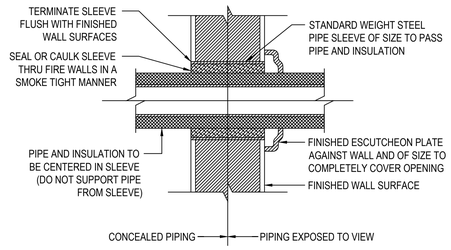


GENERAL NOTES:

1. SUPPLY AND RETURN LINEAR AIR BAR TO BE "TITUS, FLOWBAR".
2. CONTRACTOR TO VERIFY TYPE OF CEILING WITH ARCHITECT AND G.C. FOR AIR BAR INSTALLATION AND FRAME TYPE.
3. RETURN AIR BAR TO BE SAME FRAME STYLE AND SLOT SIZE AS SUPPLY UNLESS NOTED OTHERWISE.
4. DISTRIBUTION PLENUM LENGTH AS INDICATED ON PLANS.
5. PROVIDE MITERED ENDS FOR CONTINUOUS LINEAR AIR BAR WHERE SHOWN AS REFLECTED CEILING PLANS.

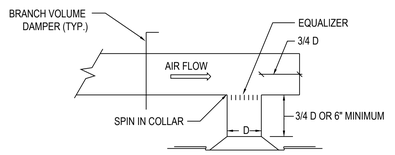
SCALE: NONE

LINEAR DIFFUSER INSTALLATION DETAIL 12



SCALE: NONE

PIPE SLEEVE THRU WALL DETAIL 8

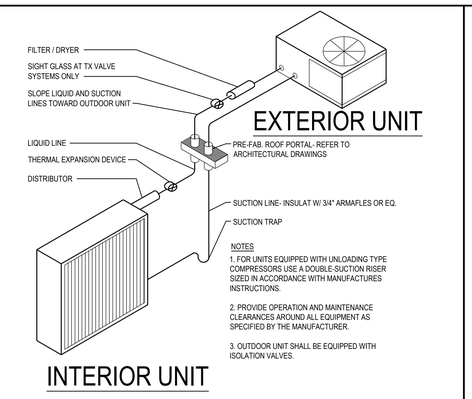


NOTES:

1. EQUALIZING GRID IS TO BE INSTALLED FLUSH TO BOTTOM OF DUCT AND EQUALIZER BLADES PERPENDICULAR TO THE AIRFLOW.
2. FLEXIBLE DUCTWORK SHALL NOT BE PERMITTED.

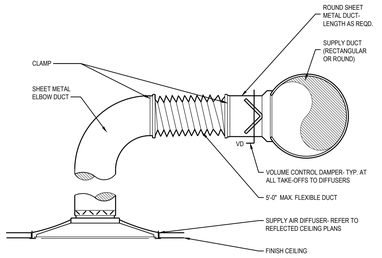
SCALE: NONE

TYPICAL DIFFUSER INSTALLATION DETAIL 5



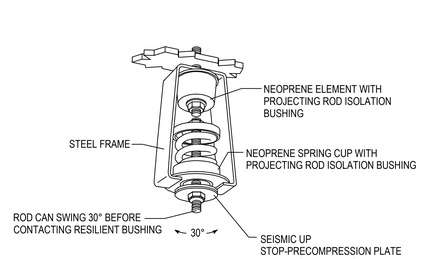
SCALE: NONE

SUPPLY AIR TERMINAL DETAIL 15



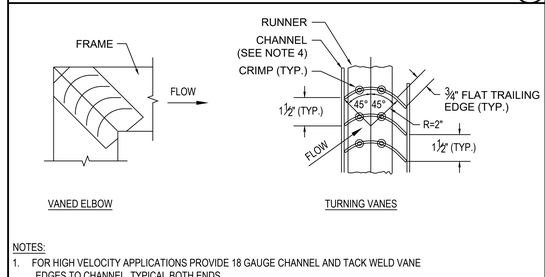
SCALE: NONE

SUPPLY AIR TERMINAL DETAIL 11



SCALE: NONE

HANGER ROD SPRING ISOLATION DETAIL 7

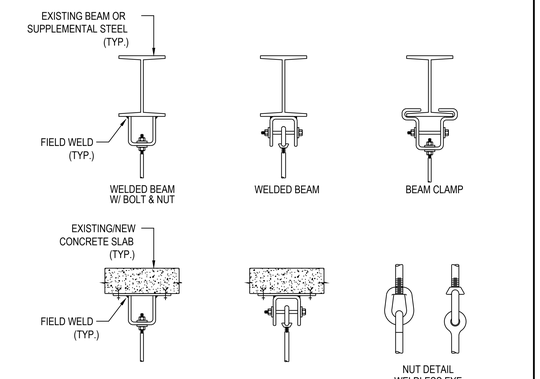


NOTES:

1. FOR HIGH VELOCITY APPLICATIONS PROVIDE 18 GAUGE CHANNEL AND TACK WELD VANE EDGES TO CHANNEL, TYPICAL BOTH ENDS.
2. FRAMES AND CHANNELS - BOLTED OR TACK WELDED TO ELBOW.
3. DUCT INLET AND OUTLET DIMENSIONS TO BE EQUAL.
4. MAXIMUM UNSUPPORTED VANE LENGTH 36".
5. VANES AND FRAMES - 24 GAUGE.

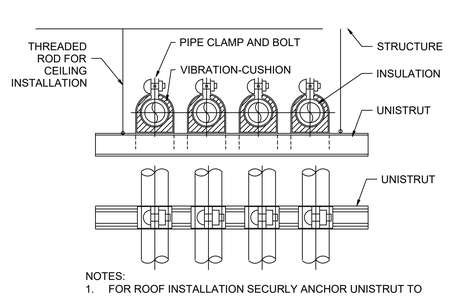
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TURNING VANE DETAIL 4



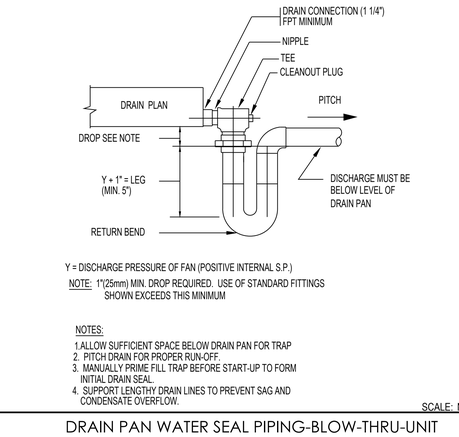
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ACCEPTABLE ATTACHMENT TO STRUCTURE DETAIL 14



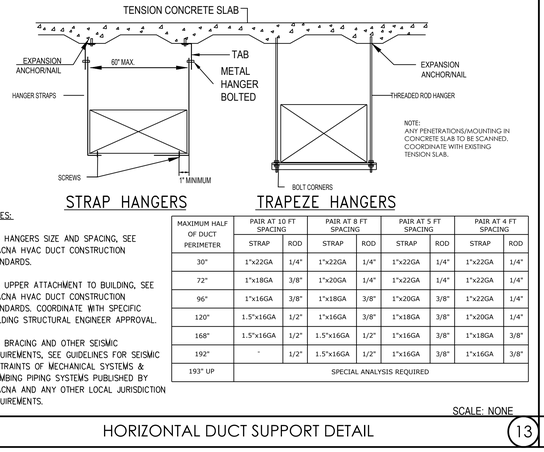
SCALE: NONE

REFRIGERANT PIPING SUPPORT DETAIL 10



SCALE: NONE

DRAIN PAN WATER SEAL PIPING-BLOW-THRU-UNIT 6



NOTES:

FOR HANGERS SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

FOR UPPER ATTACHMENT TO BUILDING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS. COORDINATE WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL.

FOR BRACING AND OTHER SEISMIC REQUIREMENTS, SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS & PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA AND ANY OTHER LOCAL JURISDICTION REQUIREMENTS.

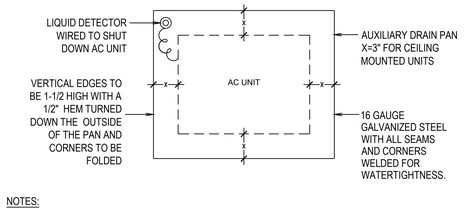
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT SPACING		PAIR AT 8 FT SPACING		PAIR AT 5 FT SPACING		PAIR AT 4 FT SPACING	
	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
30"	1"x22GA	1/4"	1"x22GA	1/4"	1"x22GA	1/4"	1"x22GA	1/4"
72"	1"x18GA	3/8"	1"x20GA	1/4"	1"x22GA	1/4"	1"x22GA	1/4"
96"	1"x16GA	3/8"	1"x18GA	3/8"	1"x20GA	3/8"	1"x22GA	1/4"
120"	1.5"x16GA	1/2"	1"x16GA	3/8"	1"x18GA	3/8"	1"x20GA	1/4"
168"	1.5"x16GA	1/2"	1.5"x16GA	1/2"	1"x16GA	3/8"	1"x18GA	3/8"
192"	"	1/2"	1.5"x16GA	1/2"	1"x16GA	3/8"	1"x16GA	3/8"
193" UP	SPECIAL ANALYSIS REQUIRED							

SCALE: NONE

HORIZONTAL DUCT SUPPORT DETAIL 13

NONE

NOT USED 9

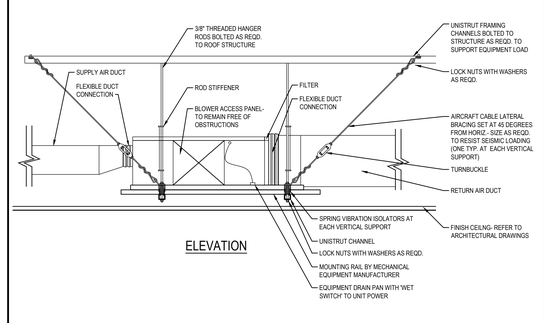


NOTES:

1. THIS DETAIL APPLIES TO:
   1.1. CEILING HUNG AC UNITS WITH INTEGRAL CONDENSATE DISCHARGE PUMPS.
   1.2. CEILING HUNG AC UNITS WITH GRAVITY FLOW CONDENSATE DRAIN PIPING.
2. FOR CEILING INSTALLATIONS, SUPPORT AC UNIT AND DRAIN PAN INDEPENDENTLY FROM STRUCTURE OVERHEAD.
3. PITCH DRAIN PAN TO LIQUID DETECTOR. PROVIDE 3/4" PLUGGED DRAIN AT LOW POINT.
4. ON INDICATION OF A LEAK CONDITION THE AC UNIT SHALL SHUT DOWN BY THE BMS (VIA THE BACNET INTEGRATION PROTOCOL)

SCALE: NONE

AUXILIARY DRIP PAN DETAIL 1



SCALE: NONE

AC UNIT HANGING DETAIL 2

NOTES:

1. FOR NOSING AT DAMPERS, TURNING VANES, ACCESS DOORS AND EQUIPMENT. (SEE ACOUSTIC LINING NOSING DETAIL)
2. LINING EDGES AT TRANSVERSE AND LONGITUDINAL JOINTS SHALL BE COATED AS SPECIFIED.
3. EXPOSED ENTERING AND TRAILING EDGES SIMILAR TO ACCESS DOOR DETAIL.
4. SEE ACOUSTIC LINING NOSING DETAIL. NOT LESS THAN TWO PINS ON EACH FACE OF DUCT.

SCALE: NONE

ACOUSTIC LINING DETAIL 3

PREPARED FOR:

CHASE

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SEAL



06/18/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	DD
CHECKED BY:	AS

MODEL

DRAWING STANDARDS v20.7

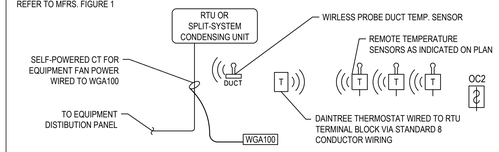
SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M0.1

TYPICAL MECHANICAL EQUIPMENT ZONE



DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM

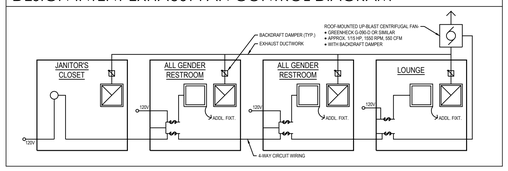
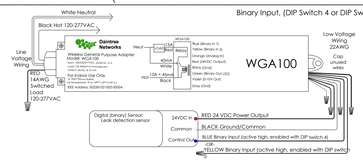
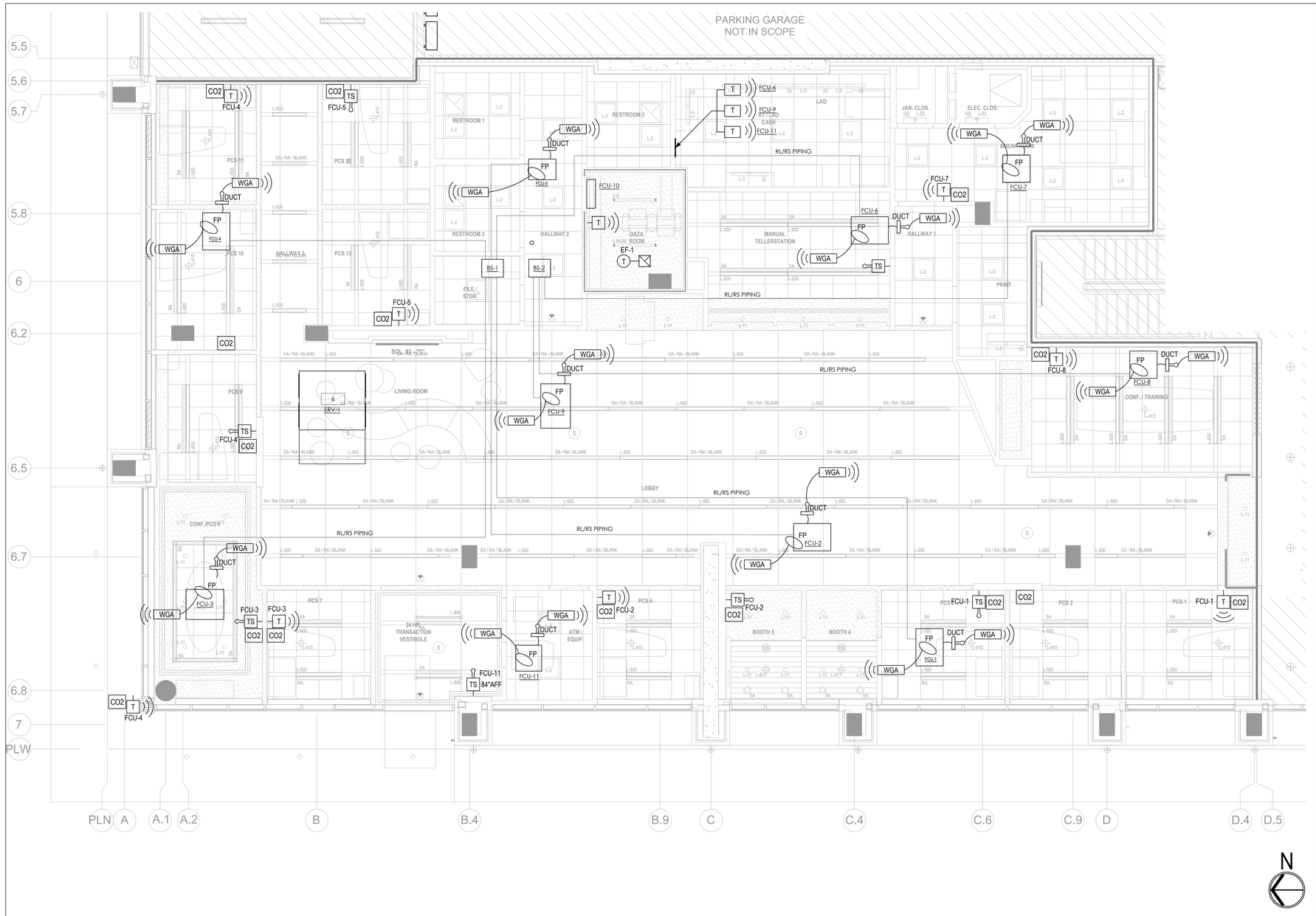


FIGURE 1: WGA100 (CAN BE USED WITHOUT SENSOR FOR SWITCHING LINE LOAD)



DAINTREE DEVICES KEY:

- ZONE / T — BMS WIRELESS THERMOSTAT: DAINTREE NETWORKS #WTS10. THERMOSTAT ADAPTER MAY BE REQUIRED. VERIFY WITH UNIT MANUFACTURER.
- ZONE / TS — BMS WIRED REMOTE TEMP. SENSOR: BAPI #10K-2-R-Z-CG (WALL MOUNT)
- OTS — BMS EXTERIOR HARDWIRED TEMPERATURE SENSOR: BAPI #BA/10K-2-O-BB2. PROVIDE HARDWIRED EXTERIOR TEMPERATURE SENSOR WITH DAINTREE WGA100 & WSA100 MOUNTED IN THE INTERIOR OF BUILDING FOR MONITORING.
- DUCT — BMS WIRED DUCT TEMP. SENSOR: BAPI #10K-2-D-4-BBX OR SIMILAR
- T — EXHAUST FAN IS CONTROLLED BY NON-DAINTREE HARDWIRED REVERSE THERMOSTAT PROVIDED BY ELECTRICAL CONTRACTOR
- TEST — IN-DUCT SMOKE DETECTOR TEST KEY SWITCHES - HARDWIRE TO SENSOR. PROVIDED BY ELECTRICAL CONTRACTOR.
- ZONE / TS — PROVIDE REMOTE ROOM TEMPERATURE SENSOR PER MECHANICAL UNIT WHERE THERMOSTAT IS REMOTE FOR 24-HOUR VESTIBULE FAN COIL
- WGA — WIRELESS GENERAL ADAPTER: DAINTREE NETWORKS #WGA100 GENERAL PURPOSE 15A LINE RELAY
- WSA — WIRELESS SENSOR ADAPTER: DAINTREE NETWORKS #WSA10
- LD — LEAK DETECTION SENSOR: DAINTREE #RBA-BA/LDT1-PS-BB; PROVIDE AT ROOMS WITH WATER HEATERS, SUMP/ EJECTOR PITS, OR THE LIKE
- FP — CURRENT TRANSFORMER: DAINTREE #CR9580-10-M WIRED TO WGA100 SINGLE PHASE
- $ OC2 — WALL-MOUNT SINGLE-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH: WATTSTOPPER DSW-302
- $ T — PUSH-BUTTON LINE VOLTAGE 5/10/15/30-MINUTE TIMER PROVIDED BY ELECTRICAL CONTRACTOR. WATTSTOPPER TS-400
- PS — PRESSURE SENSOR - ADJUSTABLE RANGE: BAPI #BA/ZPM-LR-ST-D
- CO2 — BMS HARDWIRED CO2 SENSOR: BAPI #BA/AQX-D WIRED TO WSA10



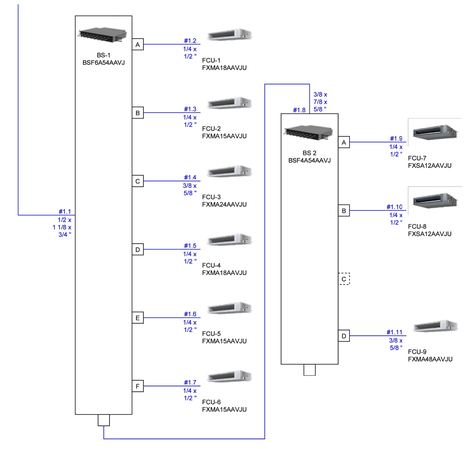
DAINTREE GENERAL NOTES:

1. MOUNT ALL THERMOSTATS AND SENSORS ON WALL 44" ABOVE FINISHED FLOOR.
2. HVAC, LIGHTING AND POWER SHALL BE CONTROLLED AND MONITORED BY A WIRELESS NETWORKED ENERGY MANAGEMENT SYSTEM UTILIZING DAINTREE CONTROLSCOPE SOFTWARE AND OPEN, STANDARDS BASED CONTROLSCOPE CONNECTED HARDWARE.
3. THE DAINTREE SYSTEM WILL INCLUDE A COMMUNICATIONS INTERFACE IN ORDER TO NETWORK FACILITY TO COMPANY WIDE SYSTEM NETWORK.
4. THE FOLLOWING SYSTEM WILL BE PROVIDED BY DAINTREE NETWORKS;
   - A. SYSTEM INFRASTRUCTURE
     - i. WIRELESS AREA CONTROLLER (WAC). THE WAC IS THE WIRELESS SYSTEM GATEWAY PROVIDED BY DAINTREE NETWORKS. IF MULTIPLE WACS ARE NECESSARY THEY CAN BE DAISY CHAINED VIA ETHERNET CABLE. WACS MUST BE POWERED WITH 120V RECEPTACLE.
     - ii. A CELLULAR MODEM WILL PROVIDE ACCESS TO THE CONTROLSCOPE NETWORK. WAC(S) ARE CONNECTED TO THE CELLULAR MODEM.
     - iii. AN UNINTERRUPTED POWER SUPPLY (UPS) WILL BE INSTALLED TO PROVIDE AN UNINTERRUPTED RECEPTACLE FOR WAC(S) AND CELLULAR MODEM.
   - B. HVAC CONTROL
     - i. WIRELESS THERMOSTATS (WTS10) WILL PROVIDE NETWORKED CONTROL OF ROOF TOP UNITS VIA STANDARD 8 WIRE INTERFACE. THE THERMOSTATS WIRELESSLY COMMUNICATE WITH THE SYSTEM BUT MUST BE WIRED TO RTU.
     - ii. WIRELESS SENSOR ADAPTERS (WSA10) CAN ACCOMODATE 4 THERMISTOR TYPE TEMPERATURE SENSORS AND 2 LOW VOLTAGE (0-10V) SENSORS AND SHALL PROVIDE CONTROL OF:
       1. 0-10V CT(S)
       2. PROBE DUCT TEMPERATURE SENSORS
       3. EXTERIOR TEMPERATURE SENSOR
     - iii. WIRELESS ROOM TEMPERATURE SENSORS PROVIDE MONITORING PER REQUIRED SPACE INCLUDING ATM ROOM TEMPERATURE MONITORING.
     - iv. WGA100 (WIRELESS GENERAL PURPOSE ADAPTERS) PROVIDE ON/OFF CONTROL OF BASEBOARD HEATERS AND DUCT HEATERS.
     - v. WGA100 ADAPTER ALSO PROVIDES CONNECTION FOR LEAK SENSOR.
   - C. INDOOR LIGHTING
     - i. CIRCUIT ON/OFF CONTROL SHALL BE PROVIDED BY WA100-PM WIRELESS ADAPTERS.
     - ii. WIRELESS OCCUPANCY SENSORS SHALL BE INSTALLED TO PROVIDE COVERAGE IN DESIRED AREAS.
     - iii. WIRELESS SWITCHES (WWD1) SHALL PROVIDE OVERRIDE CONTROL OF INTERIOR AND EXTERIOR LOADS.
   - D. EXTERIOR LIGHTING
     - i. CIRCUIT ON/OFF CONTROL SHALL BE PROVIDED BY WA100-PM WIRELESS ADAPTERS IF LOADS ARE SINGLE POLE. IF EXTERIOR LIGHTING IS MULTI POLE AN AUXILIARY RELAY CAN BE USED. INTERIOR AND EXTERIOR LOADS MUST BE CONTROLLED BY SEPARATE ADAPTERS IN ORDER TO ALLOW FOR SEPARATE CONTROL.
     - ii. LOW VOLTAGE OPEN LOOP PHOTOCELL SHALL BE INSTALLED TO CONTROL EXTERIOR LIGHTING.
   - E. POWER MONITORING
     - i. CTS WILL BE INSTALLED ON EACH PHASE OF MAIN POWER AND UTILITY GRADE MODBUS CONNECTED POWER MONITOR SHALL BE INSTALLED.
     - ii. SELF POWERED CTS WILL BE INSTALLED TO MONITOR RTU FAN POWER CONSUMPTION AND DETECT FAULT. EACH SHALL BE WIRED TO WSA10.
   - F. IRRIGATION CONTROL INTEGRATION (WHEN REQUIRED)
     - i. THE IRRIGATION SYSTEM WILL BE CONNECTED TO CONTROLSCOPE VIA CELLULAR MODEM.
5. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED (UNSWITCHED POWER).
6. THE DAINTREE SYSTEM DOES NOT SUPPORT CONTROL OF VAV/DAMPER BASED SYSTEMS. THE CARRIER VAV SYSTEM SHALL BE STAND ALONE. CONTROL COMPONENTS MUST BE COMPATIBLE WITH CARRIER AND ARE NOT IN DAINTEE SCOPE.
7. NOT USED.
8. FOR CARRIER VRF MODELS, PROVIDE 24V THERMOSTAT INTERFACE ACCESSORY TO BE DETERMINED BY CARRIER. VERIFY WITH MECHANICAL EQUIPMENT SCHEDULE, SPECIFICATIONS, AND MECHANICAL ENGINEER.
9. INSTALL WA100-PM FOR EF-1 CONTROL. CONFIGURE AS ON/OFF DEVICE TO ALLOW FOR MANUAL SWITCHING. WGA100 ADAPTER DOES NOT SUPPORT MANUAL SWITCHING. SEE MECHANICAL RCP FOR EF-1 SPECIFICS.
10. DUCTED SPLIT SYSTEMS SHALL BE CONTROLLED BY THE DAINTREE SYSTEM (WGA, CT, PRESSURE SENSOR, WSA, DUCT TEMP SENSOR, REMOTE TEMP SENSOR, AND THERMOSTAT.
11. ALL THERMOSTATS FOR THE MINI-SPLIT SYSTEMS SHALL BE HARD WIRED. MINI-SPLITS SHALL HAVE 24V INTERFACE BY CONTRACTOR FROM MANUFACTURER FOR DAINTREE WIRELESS THERMOSTATS.
12. ECONOMIZER UNIT DAINTREE COMPATIBILITY: UNITS CONNECTED TO AN ECONOMIZER THAT IS NOT INTEGRAL TO THE RTU SHALL HAVE MANUFACTURER'S CONTROLS AND CONTROL MODULE FOR MODS. ECONOMIZERS FULLY INTEGRATED WITH RTUS CAN BE CONTROLLED BY THE DAINTREE SYSTEM.
13. DAINTREE DEVICE DIP SWITCH SETTINGS: IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY EXACT DIP SWITCH SETTING PER MANUFACTURER'S CUT SHEET.

DAINTREE MECHANICAL CONTROL:

1. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. WSA10 WIRELESS SENSOR ADAPTERS REQUIRE 24V POWER.
2. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
3. FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE WSA10 MUST BE RECORDED. THE SPECIFIC WSA10 PORT MUST ALSO BE RECORDED PER SENSOR.
4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
   - A. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
   - B. RESET ADAPTER (ALL ADAPTERS)
   - C. PERFORM PROPER TEST SUITE.
5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT: HTTPS://PRODUCTS.CURRENTBYGE.COM/CONTROL-SYSTEMS/WIRELESS-LIGHTING-CONTROLS
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND INSTALL OF DAINTREE AND RELATED COMPONENTS PERTAINING TO IT/DATA, LIGHTING, POWER AND HVAC.
7. HVAC CONTRACTOR SHALL FURNISH & INSTALL THE DUCT SMOKE DETECTOR IN THE DUCT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE DUCT SMOKE DETECTOR & PROVIDE THE WIRING INTERLOCK BETWEEN THE DUCT SMOKE DETECTOR AND THE RESPECTIVE HVAC UNIT. THE ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL THE REMOTE DUCT SMOKE DETECTOR TEST STATION AND WIRING.

HP-1
REYA144AATJA



MECHANICAL CONTROL PLAN — SCALE 1/4" = 1'-0" — 1

VRF PIPING DIAGRAM — SCALE 1/4" = 1'-0" — 2

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SEAL



06/18/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

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DRAWING STANDARDS v20.7

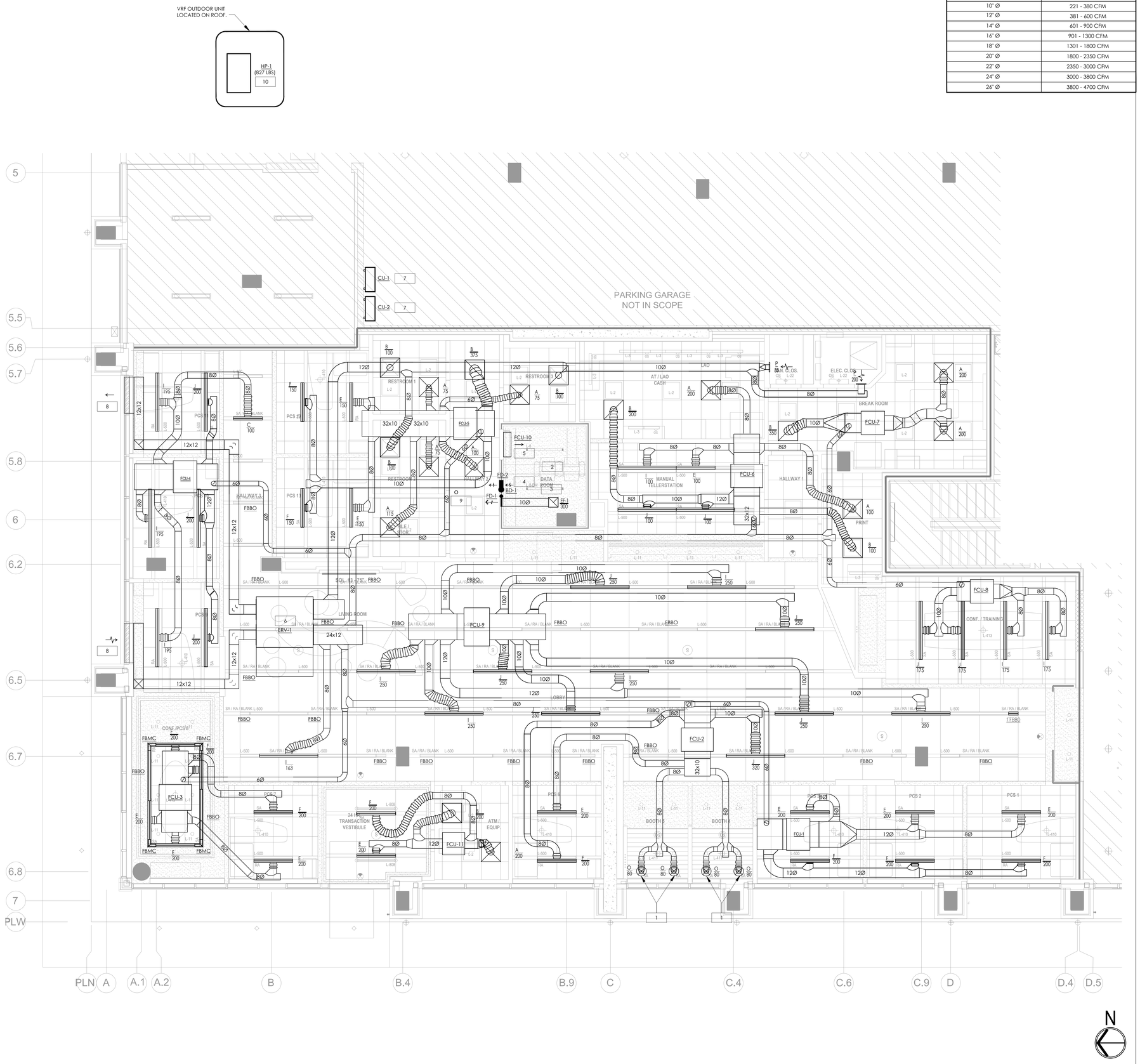
SHEET TITLE

MECHANICAL CONTROL PLAN

SHEET NUMBER

M2.0

DUCT SIZE	CFM RANGE
6" Ø	0 - 100 CFM
8" Ø	101 - 220 CFM
10" Ø	221 - 380 CFM
12" Ø	381 - 600 CFM
14" Ø	601 - 900 CFM
16" Ø	901 - 1300 CFM
18" Ø	1301 - 1800 CFM
20" Ø	1800 - 2350 CFM
22" Ø	2350 - 3000 CFM
24" Ø	3000 - 3800 CFM
26" Ø	3800 - 4700 CFM



KEYED NOTES:

1.	AIR NOZZLE DIFFUSER TO BE MOUNTED IN LOCATION SHOWN ALIGNED WITH LIGHT FIXTURE. IF BUILDING CONDITIONS OBSTRUCT MOUNTING LOCATION, CONTACT THE ARCHITECT/ENGINEER TO EXPLORE OTHER ALTERNATIVES.
2.	DATA ROOM IS NOT NORMALLY USED BY HUMANS. FOR ELECTRICAL AND STORAGE EQUIPMENT ONLY. THIS ROOM DOES NOT NEED TO BE DIRECTLY VENTILATED.
3.	DATA ROOM EXHAUST FAN. ATTACH THERMOSTAT DIRECTLY TO FAN HOUSING. OPEN ENDED DUCT DISCHARGING INTO CEILING SPACE. PROVIDE FIRE DAMPER GREENHECK #FDR-S10 (1-1/2 HOUR) OR EQUAL AT WALL PENETRATION.
4.	RELIEF VENT OPENING AT BOTTOM SECTION OF WALL. PROVIDE WITH 12"x8" AIR GRILLE. PROVIDE FIRE DAMPER GREENHECK #SSFD (1-1/2 HOUR) OR EQUAL TO FIT WITHIN WALL FRAMING. PROVIDE BACKDRAFT DAMPER GREENHECK #ES-32 OR EQUAL. WITH INTAKE-SIDE MOUNTING FLANGE SCREWED TO WALL SURFACE. SEE DETAIL 11/A5.2.1 FOR MORE INFORMATION.
5.	SPLIT SYSTEM WALL MOUNTED DUCTLESS FAN COIL UNIT. ROUTE CONDENSATE DRAIN LINES TO ADJACENT MOP SINK. COORDINATE WITH ACTUAL INSTALLATION LOCATION IN FIELD WITH OWNER.
6.	ENERGY RECOVERY VENTILATOR. SUSPEND UNIT FROM STRUCTURE. INSTALL UNIT SUCH THAT ALL MAINTENANCE PANELS ARE IN AN ACCESSIBLE LOCATION AND MEET REQUIRED CLEARANCES.
7.	(RS) AND (RL) REFRIGERANT PIPING TO CONDENSING UNIT LOCATED IN GARAGE ADJACENT TO CHASE SPACE. CONDENSING UNITS TO BE MOUNTED ON UNISTRUT, 6'-8" CLEAR TO THE BOTTOM. INSTALL REFRIGERANT (LIQUID AND SUCTION) LINES FROM FAN COIL UNITS TO CONDENSING UNIT PER MANUFACTURER'S GUIDELINE. GC TO VERIFY EXACT ROUTING AND LOCATION.
8.	MINIMUM 10' SEPERATION REQUIRED BETWEEN OUTSIDE AIR INTAKE AND EXHAUST TERMINATION FOR ENERGY RECOVERY VENTILATOR (ERV-1).
9.	REFRIGERANT ROUTING UP TO VRF OUTDOOR UNIT ON ROOF.
10.	VRF OUTDOOR UNIT HP-1 LOCATED ON ROOF. LOCATION TO BE COORDINATED WITH LANDLORD. UNITS TO BE LOCATED AS SUCH TO PROVIDE MINIMUM MFR. RECOMMENDED CLEARANCES. ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT TO BRANCH CONTROLLERS. PROVIDE ALL NECESSARY TRANSITION, FITTINGS AND OPENINGS TO MAKE SYSTEM OPERATIONAL.

MECHANICAL GENERAL NOTES:

1.	HVAC WORK CONSISTS OF PROVIDING AIR CONDITIONING SYSTEMS FOR A COMPLETE OPERATING SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL COMPLY WITH APPLICABLE CODES IN SPECIFICATIONS. IT IS THE INTENTION OF THE CONTRACT DRAWINGS AND SPECIFICATION TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
2.	AN AIR BALANCE SHALL BE PERFORMED BY AN APPROVED INDEPENDENT THIRD PARTY AIR BALANCE CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF STANDARDS PUBLISHED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC), THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR THE TESTING, ADJUSTING, AND BALANCING BUREAU (TABB). BALANCE EACH SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY THE OWNER'S REPRESENTATIVE. THE SUBMITAL OF A CERTIFIED AIR BALANCE REPORT AND OUTSIDE AIR CERTIFICATION ARE REQUIRED PRIOR TO OCCUPANCY. AN AIR BALANCE TEST WILL BE REQUIRED TO VERIFY THE PROPER VOLUME OF OUTSIDE AIR TO COMPLY WITH LOCAL CODES, BEFORE FINAL APPROVAL OF THIS PROJECT.
3.	ALL DUCT SIZES SHOWN ARE SHEET METAL SIZES AND ACCOUNT FOR INSULATION. MINIMUM R-8 INSULATION IN UNCONDITIONED SPACE. INSULATE ALL ROUND DUCTS EXTERNALLY, EXCEPT EXHAUST DUCTS, WITH 2" FIBERGLASS INSULATION WITH VAPOR BARRIER. INSULATE ALL RECTANGULAR DUCT WITH 1" THICK, 1-1/2 LB. DENSITY DUCT LINER. TAPE ALL JOINTS.
4.	PROVIDE SPIN-IN FITINGS AT ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS (NO EXTRACTOR) AND DAMPER. SEE DETAIL 4/M0.1 FOR MORE INFORMATION.
5.	MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
6.	ALL PIPING SUBJECT TO THERMAL EXPANSION AND/OR CONTRACTION THAT PENETRATES A SMOKE, FIRE, OR FIRE/SMOKE WALL, PARTITION, OR FLOOR SLAB SHALL BE SUITABLY SLEEVED AND FIRE-SAFED.
7.	METAL DUCTS WHICH PENETRATE 1 HOUR RATED FIRE WALLS AND ARE LESS THAN 100 SQUARE INCHES SHALL EXTEND A MINIMUM OF 5 FEET ON BOTH SIDES OF THE WALL WITHOUT AN OPENING (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER THAN 24 GAUGE STEEL.
8.	PROVIDE IDENTIFICATION OF THE LOCATION OF ALL FIRE AND BALANCING DAMPERS. IDENTIFICATION TAGS SHALL BE AFFIXED TO THE WALLS OR CEILINGS AND SHALL BE VISIBLE FROM THE OCCUPIED SPACE.
9.	PROVIDE ORANGE TAGS ON ALL VOLUME AND BALANCING DAMPERS ABOVE THE CEILING. TAGS AND DAMPER HANDLES SHALL BE VISIBLE AND ACCESSIBLE FOR THE TEST & BALANCE AGENCY.
10.	ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
11.	INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
12.	CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
13.	ALL INSULATION SHALL BE FIRE RATED IN ACCORDANCE WITH NFPA 90A 50/25 SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. INSULATION 'R' VALUES SHALL COMPLY APPLICABLE ENERGY CODE.
14.	MOUNT ALL SPACE THERMOSTATS AND/OR SENSORS 44" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
15.	INSTALL DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY DIVISION 16) IN SUPPLY AIR DUCTWORK CONNECTED TO HEAT PUMP UNIT. WIRE DUCT MOUNTED SMOKE DETECTORS SUCH THAT ACTIVATION WILL DE-ENERGIZE AIR HANDLING UNIT FAN. LOCATE DUCT MOUNTED SMOKE DETECTORS THE REQUIRED DISTANCE DOWNSTREAM FROM BENDS OR INLETS AS RECOMMENDED BY THE MANUFACTURER.
16.	SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
17.	NOT USED
18.	THE ENGINEER HAS MADE AN EXTENSIVE EFFORT TO IDENTIFY ABOVE CEILING CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO CHECK 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.
19.	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, ETC.
20.	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.
21.	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.
22.	WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
23.	THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
24.	PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION. SEE DETAIL 12/M0.1 FOR MORE INFORMATION ON MANUAL BALANCE DAMPER.
25.	ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
26.	ALL ROOF ATTACHED EQUIPMENT AND APPURTENANCES INCLUDED IN THE SCOPE OF THIS PROJECT ARE REQUIRED TO BE SECURED TO THE UNDERLYING BUILDING STRUCTURE. THE FASTENING SYSTEMS SHALL BE INSTALLED TO RESIST THE WIND PRESSURES ON THE EQUIPMENT AS DETERMINED IN ACCORDANCE WITH THE CURRENT BUILDING CODE.
27.	MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATE INFO TO THE FACILITY MANAGER FOR ALL FAN COILS, CONDENSING UNITS, RTU'S, AND EXHAUST FANS.
28.	ALL REFRIGERANT SHALL BE R-410A. NO R-22 SHALL BE USED.
29.	ALL HVAC UNITS TO BE PROPERLY LABELED. ALL CONTROL DEVICES AND SENSORS SHALL BE LABELED AS ASSOCIATED WITH THE HVAC UNIT. (I.E. CU-1, FC-1, ETC.)
30.	SUBMITAL OF A CERTIFIED AIR BALANCE REPORT AND OUTSIDE ARE CERTIFICATION ARE REQUIRED PRIOR TO OCCUPANCY.

NOTE:

1. DUCTWORK DRAWN IS FOR SCHEMATIC PURPOSES. IF ROUTING AND/OR SIZES DO NOT WORK WITH CEILING OBSTRUCTIONS, CONTACT ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. DUCTWORK AND AIR HANDLING UNITS TO BE TIGHT AS POSSIBLE TO THE UNDERSIDE OF SECOND FLOOR.
3. ANY PENETRATIONS/MOUNTING IN CONCRETE SLAB TO BE SCANNED. COORDINATE WITH EXISTING TENSION SLAB.

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

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SEAL

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STATE OF WASHINGTON
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06/18/26

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DRAWING STANDARDS v20.7

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MECHANICAL FLOOR PLAN

SHEET NUMBER

M2.1

CALCULATIONS

PLUMBING LOAD CALCULATIONS

WASTE PIPE FIXTURE UNIT LOAD CALC:
PER 2021 WASHINGTON STATE PLUMBING CODE, TABLE 702.1

FIXTURE	QTY	DFU/(EA)	TOTAL
WATER CLOSET (FLUSH TANK)	3	4.0	12.0
LAVATORY	3	1.0	3.0
MOP BASIN	1	3.0	3.0
LOUNGE SINK	1	2.0	2.0
FLOOR DRAIN	4	2.0	8.0
DRINKING FOUNTAIN	1	0.5	0.5
		TOTAL:	28.5 DFU

WATER SUPPLY FIXTURE UNIT LOAD CALC:
PER 2021 WASHINGTON STATE PLUMBING CODE, APPENDIX A TABLE A103.1.

FIXTURE	QTY	WSFU/(EA)	TOTAL
WATER CLOSET (FLUSH TANK)	3	2.5	7.5
LAVATORY	3	1.0	3.0
MOP BASIN	1	3.0	3.0
LOUNGE SINK	1	1.5	1.5
COFFEE MAKER	1	0.5	0.5
WATER PURIFIER	1	0.5	0.5
HOSE BIBB	1	2.5	2.5
		TOTAL:	18.5 WSFU

FROM CHART A 103.1(2), 18.5 WSFU = 15 GPM

ELECTRIC WATER HEATER CALCULATIONS

FIXT. ID	QTY	DESCRIPTION	DEMAND	TOTAL
PF-LAV	3	LAVATORY	5 GPH	15 GPH
PF-SINK	1	BREAKROOM SINK	5 GPH	5 GPH
PF-MOP	1	MOP SINK	10 GPH	10 GPH
		SUBTOTAL =		30 GPH

DEMAND FACTOR: 0.5
HOT WATER DEMAND: 0.5 X 30 GPH = 15 GPH
KW INPUT: [15 GPH X 60°F X 8.33 LB/GALLON]/[.98 X 3412 BTU/KW] = 2.4 KW

MODEL: A.O. SMITH, DEL-10
RECOVERY RATE: 20 GPH @ 60°F TEMPERATURE RISE
VOLTAGE: 208V
KW INPUT: 6 KW
STORAGE CAPACITY: 10 GALLONS

WASTE PIPING NOTES

1. WASTE PIPING SIZING IS PER 2021 WASHINGTON STATE PLUMBING CODE, TABLE 703.2. MINIMUM SLOPE OF WASTE PIPING SHALL BE 1/4" PER 1 FT, UNLESS OTHERWISE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
2. FOR EXISTING BUILDINGS, (E) WASTE PIPING SHALL BE REMOVED OR ABANDONED IN PLACE AT OWNER'S DISCRETION. (N) WASTE PIPING SHALL CONNECT TO (E) WASTE PIPING AT LOCATION INDICATED ON DRAWINGS. CONTRACTOR SHALL FIELD VERIFY (E) WASTE PIPING LOCATION AND PROVIDE ADJUSTMENTS AS REQUIRED.

PIPE SIZE:	MAX DFU VERTICAL:	MAX DFU HORIZONTAL:
1-1/2"	2	1
2"	16	8
3"	48	35
4"	256	216 (172 @ 1/8" SLOPE)
6"	1380	720 (576 @ 1/8" SLOPE)
8"	3600	2640 (2112 @ 1/8" SLOPE)

VENT PIPING NOTES

1. VENT PIPING SIZING IS PER 2021 WASHINGTON PLUMBING CODE, TABLE 703.2. THE MAXIMUM LENGTH OF HORIZONTAL VENT PIPING SHALL BE 1/3 OF THE VALUE LISTED BELOW. WHEN THE PIPE SIZE OF THE HORIZONTAL VENT PIPING IS INCREASED 1 PIPE SIZE, THE LIMITATION DOES NOT APPLY.

VENT PIPE SIZE:	MAX DFU:	MAX LENGTH:
1-1/2"	8	60 FT
2"	24	120 FT
3"	84	212 FT
4"	256	300 FT
6"	1380	510 FT
8"	3600	750 FT

PIPE BRACE SCHEDULE

PIPE (SCH. 40)	MAX. LENGTH OF BRACE
1/2-INCH	4 FT. 0 IN.
3/4-INCH	5 FT. 0 IN.
1-INCH	6 FT. 0 IN.
1 1/4-INCH	10 FT. 0 IN.
1 1/2-INCH	10 FT. 6 IN.
2-INCH	11 FT. 0 IN.
2-1/2-INCH	11 FT. 6 IN.
3-INCH	12FT. 6 IN.
COPPER PIPE	**MAX. LENGTH OF BRACE**
1/2-INCH	5 FT. 0 IN.
3/4-INCH	6 FT. 0 IN.
1-INCH	6 FT. 0 IN.
1 1/4-INCH	7 FT. 0 IN.
1 1/2-INCH	8 FT. 0 IN.
2-INCH	9 FT. 0 IN.
2-1/2-INCH	10 FT. 0 IN.
3-INCH	10 FT. 0 IN.
CAST IRON PIPE	
MAXIMUM SPACING SHOULD BE 5 FT, WITH AT LEAST ONE HANGER FOR EACH PIPE SECTION. HANGERS SHOULD BE ADJACENT TO JOINTS, CHANGES IN DIRECTION AND BRANCH CONNECTIONS.	

NOTE: SLOPE ALL 4" SOIL PIPE AT 1/8" PER FOOT

GENERAL NOTES

PIPING NOTES
COORDINATION REQUIREMENTS

1. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.
2. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.
3. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 123-A.
2. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT.

MAINTENANCE.

1. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR.
2. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION.
3. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
4. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR.
5. CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.

PLUMBING NOTES

1. CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS.
2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.
3. VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.
4. CLEANOUTS: EACH HORIZONTAL DRAINAGE PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET IN TOTAL DEVELOPED LENGTH, SHALL BE PROVIDED WITH A CLEANOUT FOR EACH 100 FEET, OR FRACTION THEREOF, IN LENGTH OF SUCH PIPING, EXCEPT AS NOTED BELOW:

A) CLEANOUTS MAY BE OMITTED ON A HORIZONTAL DRAIN LINES LESS THAN 5 FEET IN LENGTH UNLESS SUCH LINE IS SERVING SINKS OR URINALS

B) EXCEPTING THE BUILDING DRAIN AND ITS HORIZONTAL BRANCHES, A CLEANOUT SHALL NOT BE REQUIRED ON ANY PIPE OR PIPING WHICH IS ABOVE THE FLOOR LEVEL OF THE LOWEST FLOOR OF THE BUILDING.

AN ADDITIONAL CLEANOUT SHALL BE PROVIDED IN A DRAINAGE LINE FOR EACH AGGREGATE CHANGE OF DIRECTION EXCEEDING 135 DEGREES. A TWO-WAY CLEANOUT SHALL BE PROVIDED AT THE CONNECTION FROM THE BUILDING DRAIN TO THE SEWER LINE. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLANS.

5. SHUT-OFFS: PROVIDE SHUT-OFF VALVES/STOPS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE.
6. WATER HAMMER ARRESTERS: SIZE IN ACCORDANCE WITH PLUMBING & DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS & FLUSH VALVES (REC. BLDG), ETC.
7. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR FLOOR DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.
8. PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL FAN COIL AND AH UNITS.

SERVICE WATER HEATING SYSTEMS

1. THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN THE APPLIANCE EFFICIENCY REGULATIONS OR APPENDIX B, TABLE B-9.

2. LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH EITHER:

A) OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.

B) PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO MAXIMUM OF 0.75 GALLONS PER MINUTE.

C) SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-RECIRCULATING SYSTEM).

D) LAVATORIES IN PUBLIC RESTROOMS SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110°.

DISINFECTION OF POTABLE WATER SYSTEM

1. NEW OR REPAIRED POTABLE WATER SUPPLY SYSTEMS SHALL BE DISINFECTED PRIOR TO USE
2. INITIAL COLIFORM SAMPLE IS REQUIRED PRIOR TO ADMINISTERING WATER-CHLORINE SOLUTION
3. SECTION 609.9 ITEMS #2 OR #3 CAN BE USED PRECEDED BY AND FOLLOWED BY ITEM #1

3.1. NOTE FILL PORT TO ADD CHLORINE MUST BE WHERE WATER SUPPLY ENTERS BUILDING AND A FLOW METER TO MEASURE SOLUTION

4. AFTER WATER0CHLORINE SOLUTION IS INCORPORATED INTO THE NEW OR REPAIRED WATER SUPPLY SYSTEM A 48 HOUR WAITING PERIOD MUST BE OBSERVED PRIOR TO BACTERIOLOGICAL TEST
5. BACTERIOLOGICAL TEST SHALL BE CONDUCTED BY A LABORATORY CERTIFIED FOR DRINKING WATER IN CALIFORNIA STATE AFFIRMING WATER QUALITY CONTAINS NO COLIFORM BY SAMPLE TESTING THE FURTHEST FIXTURE FROM PUBLIC WATER SOURCE AND NOT LESS THAN TWO OTHER LOCATIONS PART OF THE WATER SUPPLY SYSTEM.
6. CHLORINE LEVEL IN THE NEW OR REPAIRED WATER SUPPLY SYSTEM SHALL NOT BE LESS THAN THE MEAN AVERAGE OF THE AREA IN RELATIONSHIP FROM THE WATER PURVEYOR SOURCE.

FIELD VERIFY ALL CONDITIONS

CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND VERIFY ALL WORKING CONDITIONS, CLEARANCES, AND REQUIREMENTS FOR PROVIDING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT OR CONTRACT SUM WILL BE MADE DUE TO THE FAILURE TO THOROUGHLY EXAMINE THE SITE AND CONDITIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING REQUIRED FOR THIS JOB. COORDINATE BACKFILLING AND CONCRETE PATCHING RESPONSIBILITIES WITH THE GENERAL CONTRACTOR.

LEGEND

PIPING

- PW — WASTE (W)
- PW — PUMPED WASTE
- V — VENT (V)
- PW — PUMPED WASTE (SANITARY)
- PD — PUMPED DRAIN (STORM)
- RL — RAIN LEADER
- ORL — OVERFLOW RAIN LEADER
- CD — CONDENSATE DRAIN
- CW — COLD WATER (CW)
- HW — HOT WATER, POTABLE, 120°F
- 140 — HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120°F
- HWC — HOT WATER CIRCULATING (HWC), POTABLE, 120°F
- 140 — HOT WATER CIRCULATING, POTABLE, TEMPERATURE OTHER THAN 120°F
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- FOV — FUEL OIL VENT
- RV — RELIEF VENT
- G — NATURAL GAS
- I — IRRIGATION
- PIPE CAP
- PIPE PLUG
- UNION
- FLANGE
- WYE STRAINER
- WYE STRAINER WITH CAPPED HOSE END BLOWDOWN VALVE
- GATE VALVE OR BALL VALVE
- BALL VALVE
- GLOBE VALVE
- CHECK VALVE
- BALANCING OR PLUG VALVE
- BUTTERFLY VALVE
- PRESSURE REDUCING VALVE (PRV)
- AUTOMATIC CONTROL VALVE, 2-WAY
- AUTOMATIC CONTROL VALVE, 3-WAY
- RELIEF VALVE
- BALANCING/MEASURING VALVE
- FLEXIBLE CONNECTION IN PIPING
- PIPE ANCHOR
- PIPE ALIGNMENT GUIDE
- PS — PIPE SUPPORT
- VALVE STATION OR ASSEMBLY
- ID — INDIRECT DRAIN, PIPE TO DRAIN
- FLOOR DRAIN
- HOSE BIBB
- BREAK IN PIPING OR DUCTWORK
- PUMP
- PRESSURE GAUGE
- THERMOMETER
- P/T — PRESSURE/TEMPERATURE TEST PORT
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTER
- DCVA — DOUBLE CHECK VALVE ASSEMBLY
- ISOMETRIC FIXTURE CALLOUT

GENERAL

- ARCHITECTURAL BACKGROUND (THIN LINE)
- NEW MECHANICAL WORK (HEAVY LINE)
- EXISTING WORK OR EQUIPMENT (THIN LINE)
- MATCHLINE OR PROPERTY LINE
- SECTION IDENTIFICATION (DETAIL SIMILAR)
- INDICATES DIRECTION OF CUTTING PLANE
- LETTER INDICATES SECTION (NO. INDICATES DETAIL)
- SHEET NUMBER WHERE SECTION IS DRAWN
- SHEET NUMBER WHERE SECTION IS TAKEN

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
CAP	CAPACITY
CI	CAST IRON
CLG	CEILING, COOLING
CO	CLEANOUT
COMB	COMBUSTION
CONT	CONTINUE, CONTROL
CONTR	CONTRACTOR
COTG	CLEANOUT TO GRADE
D	DIAMETER
DI	DUCTILE IRON
DIM	DIMENSION
DN	DOWN
EFF	EFFICIENCY
ELEC	ELECTRIC
EQUIV	EQUIVALENT
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR, EXTERNAL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
G	GAS
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HEDV	HOSE END DRAIN VALVE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN, INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
KW	KILOWATT
L	LONG, LENGTH
LB	POUND
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
PD	PUMPED DRAIN
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
PW	PUMPED WASTE
RD	ROOF DRAIN
REF	REFERENCE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SR	SUDS RELIEF
SS	STAINLESS STEEL, SANITARY SEWER
SQ	SQUARE
TYP	TYPICAL
UG	UNDER GROUND
UON	UNLESS OTHERWISE NOTED
V	VENT
VTR	VENT THRU ROOF
W	WASTE, WATT, WIDE
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PIPE MATERIALS

WATER PIPING - (ABOVE GRADE)	COPPER TUBING, TYPE L HARD DRAWN CONFORMING TO ASTM B88, WITH BRAZED OR SOLDER JOINT COPPER, BRASS OR BRONZE FITTINGS CONFORMING TO ANSI B16.18 OR ANSI B16.22 OR BRASS PIPE, STANDARD WEIGHT IPS, 85 PERCENT COPPER CONTENT CONFORMING TO ASTM B43 WITH STANDARD WEIGHT THREADED CAST BRASS FITTING CONFORMING TO ANSI B16.15.
SANITARY, VENT & STORM - (BELOW GRADE)	ABS PIPE & FITTINGS: SCH.40, SOLVENT WELDED ASTM D-2241 AND ASTM D-1785.
SANITARY, VENT & STORM - (ABOVE GRADE)	ABS OR PVC PIPE & FITTINGS: SCH.40, SOLVENT WELDED ASTM D-2241 AND ASTM D-1785.
CONDENSATE PIPING - (WHERE REQUIRED)	ASTM B306, COPPER JOINING - SOLDER GRADE 50B INSULATION - 1/2" THICK ARMAFLEX THREADED ON PIPE

NOTE: SOLVENT CEMENT JOINTS TO BE IN ACCORDANCE WITH SECTION 705.6.2 OF THE WASHINGTON STATE PLUMBING CODE AND ASTM F656 FOR PRIMER AND ASTM D2564 FOR SOLVENT CEMENTS.

DRAWING INDEX

P0.0	PLUMBING LEGEND, NOTES, SCHEDULES, & DRAWING INDEX
P1.0	PLUMBING DETAILS
P2.1	PLUMBING SUPPLY FLOOR PLAN
P2.2	PLUMBING WASTE & VENT FLOOR PLAN

SCHEDULES

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	COLD WATER	HOT WATER	WASTE	VENT
FR WC	WATER CLOSET: ADA-KOHLER # K-3519/3519-RA HIGHLINE COMFORT HEIGHT PRESSURE LITE, FLOOR MOUNTED ELONGATED BOWL, VITREOUS CHINA, EPA WATERSENSE COMPLIANT, TWO PIECE TOILET WHITE/CHROME 12" ROUGH, (FULL FLUSH 1.0 GPF) TRIP LEVER SHALL BE INSTALLED ON WIDE SIDE OF TOILET ROOM SEAT: KOHLER K-4650. COMMERCIAL SOLID ELONGATED PLASTIC OPEN FRONT LESS COVER SUPPLY: PROFLO PFXCAC32CLK CHROME PLATED FLEXIBLE SUPPLY WITH LOOSE KEY STOP.	1/2"	-	3"	2"
FR LAV	LAVATORY: AMERICAN STANDARD LUCERNE #0356.115/137 WHITE WALL MOUNTED 20-1/2" X 18-1/4" VITREOUS CHINA, SINGLE HOLE, FRONT OVERFLOW, FOR CONCEALED ARMS, EXTRA HOLE FOR SOAP DISPENSER ON WALL-SIDE OF LAV FAUCET: SLOAN OPTIMA# EAF-200-P-ISM-IC4 W/ 0.35 GPM AREATOR AND ETF-1-1/4" GRID DRAIN AND TAILPIECE TRAP PRIMER: PRECISION PLUMBING PRO1-ULP500 POL CHROME FINISH CONNECT TO COLD SUPPLY & PROVIDE LINE TO FLOOR DRAIN AS REQD P-TRAP: 1-1/4" X 1 1/2" CHROME PLATED 17 GAUGE W/TAILPIECE AND CLEANOUT SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS CARRIER: FLOOR MOUNTED WALL CARRIER FOR CONCEALED ARMS LAV GUARD: TRUEBRO WHITE LAV GUARD 2 EZ-SERIES TO COVER TAILPIECE, P-TRAP, SUPPLIES & VALVES INSTALL A SLOAN THERMOSTATIC TEMPERING VALVE #MIX-75-A BELOW LAVATORY SET AT MAXIMUM 105° PLUG IN TRANSFORMER COLOR/ FINISH WHITE. STRAINER 2411.015	1/2"	1/2"	2"	1-1/2"
FR DF	DRINKING FOUNTAIN: RECESSED MODEL ELKAY #LZSTL8WSSK TWO-LEVEL WALL MOUNTED ALL STAINLESS STEEL WITH STAINLESS STEEL TOP, WITH FRONT PUSH PADS, FLEXIBLE ANTI-MICROBIAL SAFETY BUBBLER, BOTTLE FILLER AND FILTER. SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH LOOSE KEY STOP CARRIER: FLOOR MOUNTED WALL CARRIER FOR CONCEALED ARMS	1/2"	-	2"	1-1/2"
FR SINK	LOUNGE SINK: COUNTERTOP, ELKAY LRAD1919S5-MR2 SINGLE COMPARTMENT 19-1/2" X 19" X 5-1/2" DEEP 18 GAUGE STAINLESS STEEL FAUCET: ELKAY LK3000CR WITH 1.5 GPM FLOW REGULATOR SUPPLIES: 3/8" X 12" CHROME PLATED FLEXIBLE SUPPLIES WITH WHEEL HANDLE STOPS GRID DRAIN: ELKAY # LK 35 SERIES WITH CONICAL STRAINER BASKET WASTE: ELKAY # LK 53 SERIES; TRAP: 1-1/2" X 1 1/2" CHROME PLATED 17 GAUGE W/TAILPIECE AND CLEANOUT INSTALL A SLOAN THERMOSTATIC TEMPERING VALVE #MIX-75-A BELOW LAVATORY SET AT MAXIMUM 105° INSULATE WASTE AND WATER SUPPLIES BELOW SINK WITH TRUEBRO PIPE INSULATION OR EQUAL.	1/2"	1/2"	2"	1-1/2"
FR MOP	MOP SINK: FLOOR MOUNTED, HIGH IMPACT RESISTANT FIBERGLASS SERVICE SINK MUSTEE MODEL# 63M WHITE FINISH DRAIN: ELKAY LK43 FAUCET: MUSTEE 63.600A SERVICE SINK FAUCET WITH VACUUM BREAKER ACCESSORIES: MUSTEE MODEL# 65.700 HOSE AND HOSE HOLDER, MUSTEE MODEL# 65.600 MOP HANGER, MOP SINK SPLASHES AT EACH WALL CONTACTING MOP SINK (REFER TO ARCHITECTURAL ROOM ELEVATIONS)	3/4"	3/4"	3"	2"
FR FD	FLOOR DRAIN: 5" INCH SQUARE NICKEL BRONZE TOP, EQUAL TO MIFAB F100-C-S W/ "TYPE S" STRAINER, WITH SEDIMENT BUCKET & TRAP PRIMER CONNECTION. PROVIDE WITH JONES STEPHENS P26001 TRAP SEAL.	-	-	2"	-
FR FCO	FLOOR CLEAN-OUT: SQUARE ADJUSTABLE SCORIATED NICKEL BRONZE TOP WITH TAPER THREAD. ZURN #ZN1400 ADJUSTABLE	-	-	SEE DRAWINGS	-
FR WCO	WALL CLEAN-OUT: ROUND WITH SMOOTH STAINLESS STEEL COVER, CENTER SCREW, AND RECESSED BRONZE THREADED TAPPED PLUG, ZURN #Z1446	-	-	SEE DRAWINGS	-
FR WH	DOMESTIC WATER HEATER: A.O. SMITH #DEL-10 DURA-POWER, 21-3/4" DIA x 22-1/4" H, 10 GALLON LINED TANK, ONE 6000 WATT ELEMENT 208/1/60. WALL-MT. BRACKET / DRIP PAN HOLDRITE 40 SWHP-W. SUPPORT STRAPS HOLD RITE QS-50. EXPANSION TANK AMTROL ST-5. MAINTAIN 81" MIN. HEADROOM CLEARANCE TO FLOOR BELOW. TEMPERATURE SETPOINT 120 DEG F. SHIPPING WEIGHT = 73 LBS	3/4"	-	-	-

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06/18/26

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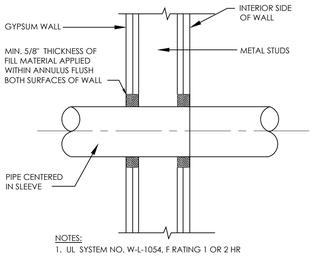
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SHEET TITLE

PLUMBING LEGEND, NOTES, SCHEDULES, & DRAWING INDEX

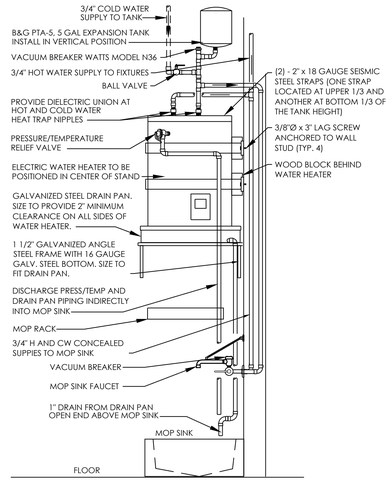
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P0.0



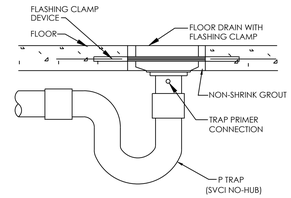
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NOT USED | SCALE NTS | 14

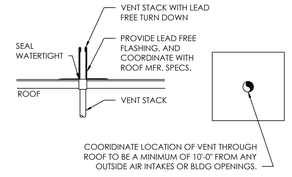


SUSPENDED WATER HEATER | SCALE NTS | 13

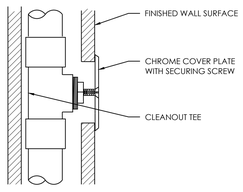
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TYP. FLOOR DRAIN | SCALE NTS | 12



TYP. STACK VENT | SCALE NTS | 10



TYP. WALL CLEANOUT | SCALE NTS | 9

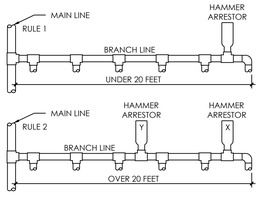
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NOT USED | SCALE NTS | 7

NOT USED | SCALE NTS | 6

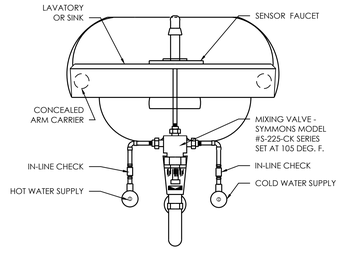
RULE 1: BRANCH LINES OF 20 FEET OR LESS.
THE HAMMER ARRESTOR SHOULD BE PLACED AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES.

RULE 2: BRANCH LINES OVER 20 FEET.
AN ADDITIONAL HAMMER ARRESTOR (Y) SHOULD BE PLACED AS SHOWN (BELOW). THE ADDITIONAL UNIT PLACED AT THE MIDPOINT OF THE RUN LONGER THAN 20 FEET. THE SUM OF THE FIXTURE UNIT RATINGS OF (X) AND (Y) COMBINED, SHOULD BE EQUAL TO OR GREATER THAN THE DEMAND OF ALL BRANCHES. INSTALL IN A ACCESSIBLE AREA

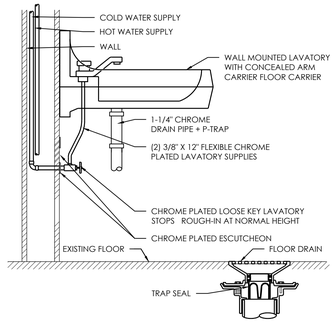


TYP. WATER HAMMER ARRESTOR | SCALE NTS | 5

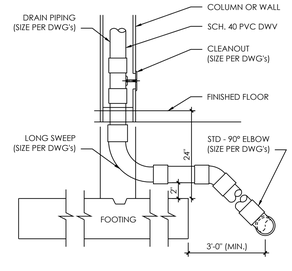
NOT USED | SCALE NTS | 4



TYP. FIXTURE MIXING VALVE | SCALE NTS | 3



TYP. TRAP SEAL | SCALE NTS | 2



TYP. DRAINAGE PIPING | SCALE NTS | 1

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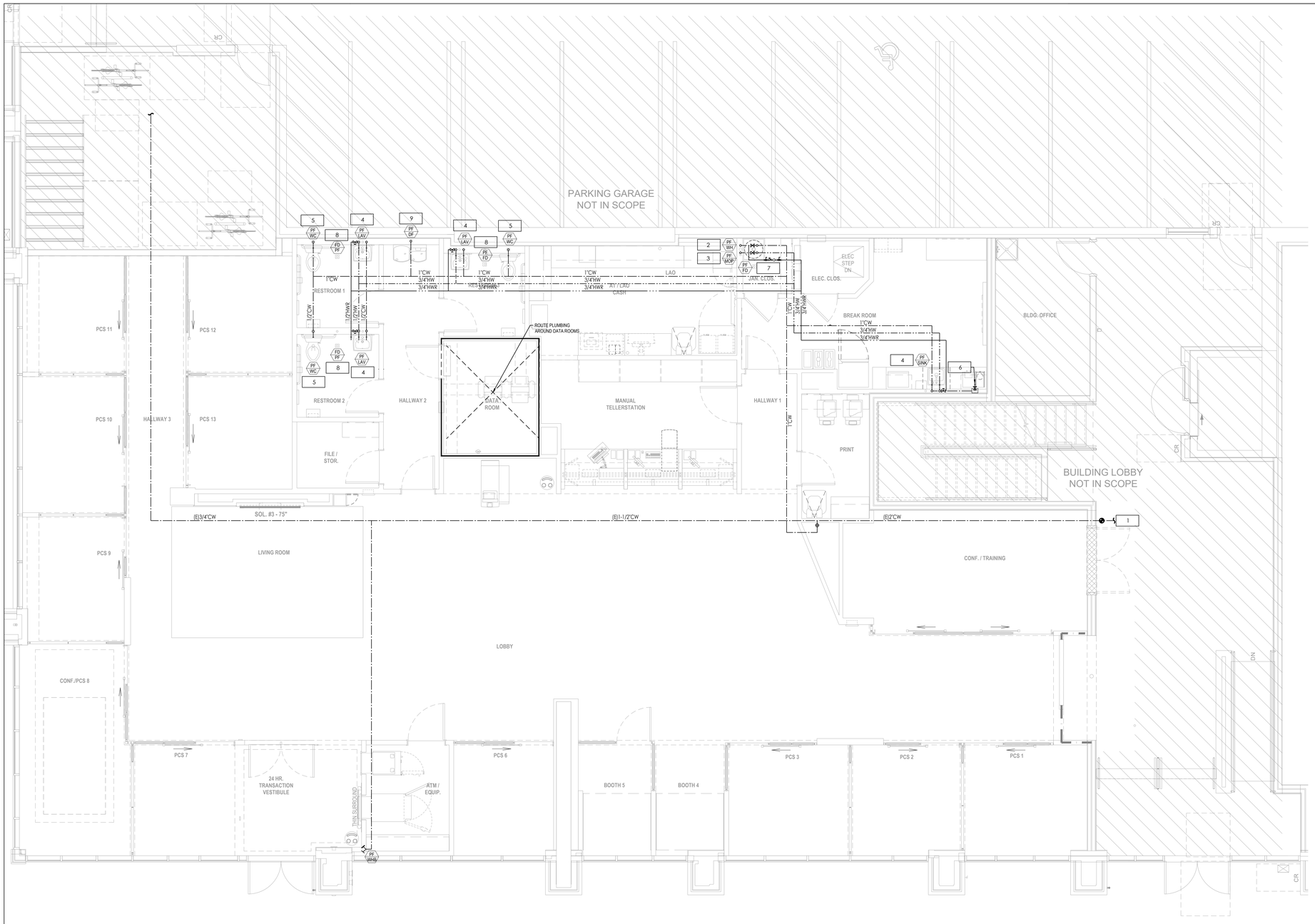
DRAWING STANDARDS v20.7

SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P1.0



1 P2.1 PLUMBING SUPPLY FLOOR PLAN

1/4" = 1'-0"

N

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. 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. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 123-A. ALL LAV PIPING SHALL BE INSULATED (ADA REQUIREMENT).
18. LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F. LAVATORY FAUCETS SHALL BE THE SELF CLOSING TYPE. EACH FAUCET SHALL NOT EXCEED 2.2 GPM.
19. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
20. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED WITH ALL HOSE BIBBS.
21. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
22. GENERAL CONTRACTORS ARE REQUIRED TO CLEAN SEWER PIPE, AND CAMERA SCOPE. TO RECORD THE SEWER LINE IS FREE AND CLEAR OF ANY OBSTRUCTIONS PRIOR TO START OF CONSTRUCTION & PRIOR TO TURNOVER. IF ISSUE ARISE COMMUNICATE TO PM. SEE DETAIL 1/P0.1 FOR MORE INFORMATION. 1/4 INCH PER FOOT FALL MINIMUM.
23. PIPE MATERIALS SHOWN ON SHEET P0.0.
24. INDIRECT WASTE PIPING SHALL DISCHARGE INTO THE BUILDING DRAINAGE SYSTEM THROUGH AN AIRGAP OR AIRBREAK. WHERE A DRAINAGE AIRGAP IS REQUIRED, THE MINIMUM VERTICAL DISTANCE AS MEASURED FROM THE LOWEST POINT OF THE INDIRECT WASTE PIPE TO THE FLOOD-LEVEL RIM OF THE RECEPTOR SHALL BE NOT LESS THAN 1 INCH.
25. NO PIPING OR EQUIPMENT CARRYING WASTES OR PRODUCING WASTES OR OTHER DISCHARGES UNDER PRESSURE SHALL BE DIRECTLY CONNECTED TO ANY PART OF THE DRAINAGE SYSTEM.
26. PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL FAN COIL UNITS.
27. ROUTE FULL SIZE COPPER DRAIN PIPE FROM EACH ROOFTOP UNIT (3/4" MIN) DRAIN PAN AND FROM EACH FAN COIL TO MOP SINK. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION.
28. ALL FAUCETS IN PUBLIC RESTROOMS SHALL BE SELF-CLOSING METERING FAUCETS. (LAPC 407.2.2)
29. WATER PIPES AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER. (LAPC,604.2)

KEYED NOTES:

1. EXISTING 2" CW TO BUILDING. GC TO VERIFY EXACT SIZE AND LOCATION.
2. PROVIDE SHELF MOUNTED ELECTRIC WATER HEATER. ROUTE T&P VALVE TO MOP SINK. SEE SHEET ARCHITECTURAL SHEETS FOR SHELF DETAIL.
3. PROVIDE MOP SINK. ROUTE 3/4"CW AND 3/4"HW TO FIXTURE.
4. PROVIDE LAVATORY/BREAKROOM SINK. ROUTE 1/2"CW AND 1/2"HW TO FIXTURE.
5. PROVIDE WATER CLOSET. ROUTE 1/2"CW TO FIXTURE.
6. 1/4" ANGLE STOPS FOR COFFEE MAKER & WATER PURIFIER OFF OF PF-SINK COLD WATER SUPPLY UNDER CABINET. RECESSED APPLIANCE WATER SUPPLY BOX-CUT HOLE IN BACK OF CABINET.
7. PROVIDE HOT WATER RE-CIRCULATION PUMP. INSTALL IN ACCESSIBLE LOCATION.
8. TRAP PRIMER TO FLOOR DRAIN.
9. PROVIDE HI-LO DRINKING FOUNTAIN. ROUTE TO FIXTURE.

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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ROY PEDRO ARCHITECT

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SEAL

MARK M. MANOLIDIS
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER

06/18/26

ISSUE	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

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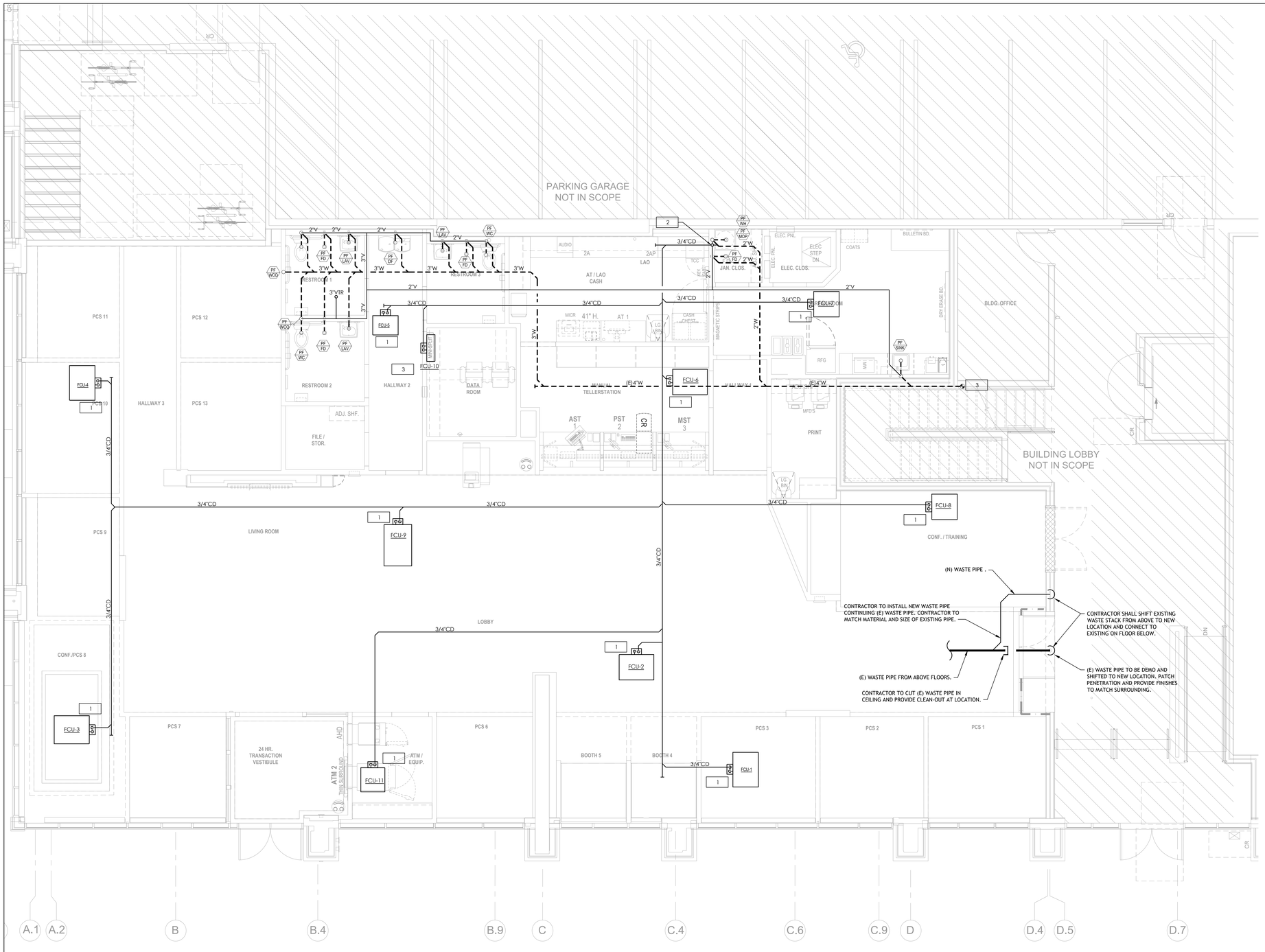
DRAWING STANDARDS v20.7

SHEET TITLE

PLUMBING SUPPLY FLOOR PLAN

SHEET NUMBER

P2.1



1 P2.2 PLUMBING WASTE & VENT FLOOR PLAN

1/4" = 1'-0"

N

PLUMBING GENERAL NOTES:

1.	CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. 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.	THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 123-A. ALL LAV PIPING SHALL BE INSULATED (ADA REQUIREMENT).
18.	LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F. LAVATORY FAUCETS SHALL BE THE SELF CLOSING TYPE. EACH FAUCET SHALL NOT EXCEED 2.2 GPM.
19.	ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
20.	PERMANENT VACUUM BREAKERS SHALL BE INCLUDED WITH ALL HOSE BIBBS.
21.	WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
22.	GENERAL CONTRACTORS ARE REQUIRED TO CLEAN SEWER PIPE, AND CAMERA SCOPE, TO RECORD THE SEWER LINE IS FREE AND CLEAR OF ANY OBSTRUCTIONS PRIOR TO START OF CONSTRUCTION & PRIOR TO TURNOVER. IF ISSUE ARISE COMMUNICATE TO PM. SEE DETAIL 1/P0.1 FOR MORE INFORMATION. 1/4 INCH PER FOOT FALL MINIMUM.
23.	PIPE MATERIALS SHOWN ON SHEET P0.0.
24.	INDIRECT WASTE PIPING SHALL DISCHARGE INTO THE BUILDING DRAINAGE SYSTEM THROUGH AN AIRGAP OR AIRBREAK. WHERE A DRAINAGE AIRGAP IS REQUIRED, THE MINIMUM VERTICAL DISTANCE AS MEASURED FROM THE LOWEST POINT OF THE INDIRECT WASTE PIPE TO THE FLOOD-LEVEL RIM OF THE RECEPTOR SHALL BE NOT LESS THAN 1 INCH.
25.	NO PIPING OR EQUIPMENT CARRYING WASTES OR PRODUCING WASTES OR OTHER DISCHARGES UNDER PRESSURE SHALL BE DIRECTLY CONNECTED TO ANY PART OF THE DRAINAGE SYSTEM.
26.	PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL MECHANICAL UNITS. INSULATE PER CODE.
27.	ROUTE FULL SIZE COPPER DRAIN PIPE FROM EACH ROOFTOP UNIT (3/4" MIN) DRAIN PAN AND FROM EACH FAN COIL TO MOP SINK. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION.
28.	CONTRACTOR SHALL VERIFY ALL PLUMBING POINT OF CONNECTIONS PRIOR TO START OF WORK. PREVIOUS TENANT HAD INSTALLED A GRAVITY GREASE INTERCEPTOR WITHIN PARKING LOT. THIS SUBJECT GREASE INTERCEPTOR IS NOT INTENDED FOR REUSE AND SHOULD BE CUT AND CAPPED. PROPOSED PLUMBING SCOPE OF WORK INCLUDES TENANT SPACE AND SANITARY WASTE LINES ONLY.

KEYED NOTES:

1.	INSTALL EXTERNAL CONDENSATE PUMP WITH A MINIMUM HEAD DISTANCE OF 80". COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE A 120VAC PLUG NEXT TO FAN COIL UNIT FOR EXTERNAL CONDENSATE PUMP.
2.	CONDENSATE DRAIN LINE FROM ROOF DOWN TO INDIRECT TERMINATION AT MOP SINK.
3.	INSTALL EXTERNAL CONDENSATE PUMP WITH A MINIMUM HEAD DISTANCE FOR 80. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE A 120 PLUG FOR EXTERNAL CONDENSATE PUMP. CONDENSATE PUMP TO BE LOCATED IN CEILING OF ADJACENT ROOM.
4.	EXISTING 4" WASTE POINT OF CONNECTION. G.C TO CONFIRM CONDITION AND FINAL WASTE POC.

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765 TENANT IMPROVEMENTS VANCOUVER RELO

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SEAL

R. N. MANGLICMOT — STATE OF WASHINGTON — 22886 — REGISTERED PROFESSIONAL ENGINEER

06/18/26

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DRAWING STANDARDS v20.7

SHEET TITLE

PLUMBING WASTE & VENT FLOOR PLAN

SHEET NUMBER

P2.2

ALLOWABLE MATERIALS

- CONDUIT:
  1. GALVANIZED RIGID STEEL (GRS): HOT DIPPED GALVANIZED RIGID STEEL WITH THREADED ENDS. MEET ASTM STANDARD A-153 GALVANIZED AFTER FABRICATION.
  2. INTERMEDIATE METAL CONDUIT (IMC): RIGID MILD STEEL TUBE WITH WELDED SEAMS, HOT DIPPED GALVANIZED WITH THREADED ENDS.
  3. THIN WALL: ELECTRO-GALVANIZED ELECTRICAL METALLIC TUBING (EMT).
  4. FLEXIBLE: HOT DIPPED GALVANIZED MATERIAL OF MILD STEEL OF UNIFORM WIDTH AND THICKNESS.
  5. FLEXIBLE LIQUID TIGHT: HOT DIPPED GALVANIZED MATERIAL OF MILD SHELL OF UNIFORM WIDTH AND THICKNESS WITH EXTRUDED MOISTURE AND OIL PROOF PVC JACKET.

- CONDUIT FITTINGS:
  1. GRS CONDUIT: THREADED TYPE.
  2. IMC CONDUIT: THREADED TYPE.
  3. THINWALL 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.
  4. FLEXIBLE CONDUIT: SINGLE OR TWO PIECE SQUEEZE TYPE.
  5. FLEXIBLE LIQUID TYPE: COMPRESSION TYPE.

- CONDUCTORS AND CABLES
  1. WIRE AND CABLE FOR BUILDING INTERIOR: SIZES #14 THROUGH #10 SHALL BE TYPE THHN/THWN SOLID COPPER; SIZES #8 AND LARGER SHALL BE TYPE THHN/THWN OR XHHW STRANDED COPPER.
  2. WHERE LIGHT FIXTURES ARE WIRED IN CONTINUOUS ROWS, WIRE PULLED THROUGH FIXTURES SHALL BE THHN 90 DEGREES CENTIGRADE COPPER, 600 VOLT INSULATION.
  3. ALL WIRE AND CABLE INSTALLED IN INACCESSIBLE LOCATIONS SHALL BE INSTALLED IN CONDUIT SYSTEMS, GRS, IMC, OR EMT. CONCEALED FLEXIBLE CONDUITS ARE PERMITTED ONLY AT THE ENDS OF CONDUIT RUNS, AS EQUIPMENT OR FIXTURE "WHIPS". THE USE OF METAL-SHEATHED CABLES (TYPE MC) SHALL NOT BE PERMITTED WITHIN CONCEALED WALL, CEILING, OR OTHER CAVITIES NOT EASILY ACCESSED BY REMOVABLE CEILING TILES OR ACCESS PANELS.
  4. TYPE MC METAL-CLAD CABLE:
     A. METAL-CLAD CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE FOR BRANCH CIRCUIT WIRING NOT CONCEALED WITHIN INACCESSIBLE WALL AND CEILING CONSTRUCTION, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH BUILDING MANAGEMENT STANDARDS WHERE APPLICABLE.

     B. TYPE MC CABLE MAY BE USED FOR LIGHTING AND RECEPTACLE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES.

        a. USE SHALL BE LIMITED TO DRY LOCATIONS WITH CABLES SUITABLE SECURED AT INTERVALS NOT EXCEEDING 42 INCHES.

        b. CABLE SHALL BE INSTALLED IN SUCH A MANNER AS TO PRECLUDE RESTING UPON FINISHED CEILING CONSTRUCTION OR SO AS TO IMPAIR REMOVAL OF ANY ACCESSIBLE CEILING TILE.

        c. CABLE SHALL BE CONTINUOUS BETWEEN ELECTRICAL DEVICES.

        d. CONNECTION FITTINGS SHALL BE OF THE LOCK-NUT TYPE.

        e. WIRING FROM THE FIRST DEVICE POWERED FROM THE BRANCH CIRCUIT ("HOMERUN") SHALL BE INSTALLED TO THE PANELBOARD IN RGS, RIGID IMC OR EMT CONDUIT, MINIMUM 3/4" DIAMETER.

        f. TYPE MC CABLE SHALL NOT BE USED FOR HOMERUN CONNECTIONS TO LIGHTING FIXTURE SUPPLY LEADS, OR EMBEDDED IN CONCRETE OR MASONRY.

     C. PROVIDE TYPE MC CABLES THAT ARE MINIMUM 90 DEGREES C RATED, WITH COMPONENTS AND FITTINGS LISTED FOR GROUNDING, COMPLIANT WITH NEC ARTICLES 250 AND 330.

     D. PROVIDE CABLE FORMED FROM CONTINUOUS LENGTH OF SPIRALLY WOUND, INTERLOCKED ZINC COATED OR GALVANIZED (INSIDE AND OUTSIDE) STRIP STEEL OR ALUMINUM JACKET. PROVIDE CABLES WITH FULL PARITY INSULATED EQUIPMENT GROUND CONDUCTOR.

     E. PROVIDE COMPATIBLE STEEL FITTINGS WITH INTEGRAL RED PLASTIC INSULATED THROAT BUSHINGS, COMPLIANT WITH NEC 330.

- PROHIBITED MATERIALS:
  1. ARMORED CABLE, TYPE AC SHALL NOT BE PERMITTED.
  2. NON-METALLIC SHEATHED CABLES, TYPES NM, NMC AND NMS, SHALL NOT BE PERMITTED.
  3. Flat or under-carpet type cable is not permitted under any circumstances.

ABBREVIATIONS

A	AMPERE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFP	BACKFLOW PREVENTER
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CH	CHILLER
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DW	DISHWASHER
DWG	DRAWING
EB	EQUIPMENT BOARD
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FA	FIRE ALARM
FATC	FIRE ALARM TERMINAL CABINET
FCP	FIRE ALARM CONTROL PANEL
FO	FIBER OPTIC
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND,G	GROUND
HACR	HEATING/AIR CONDITIONING-RATED
HD	HAND DRYER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
	ISOLATED GROUND
	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MMST	MANUAL MOTOR STARTER
MMSW	MANUAL MOTOR SWITCH
MOD	MODULAR
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
	NIGHT LIGHT
NO	NORMALLY OPEN
NON	NON-MODULAR
OR	ORANGE
PNL	PANEL
	PHASE
	PUSHBUTTON
PIV	POST INDICATOR VALVE
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
REF	REFRIGERATOR
RGC	RIGID GALVANIZED STEEL CONDUIT
SE	SERVICE ENTRANCE
SM	SURFACE MOUNT
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BLOCK
TS	TIME SWITCH
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UREF	UNDERCOUNTER REFRIGERATOR
	VOLT
VAV	VARIABLE AIR VOLUME
VE	VOICE EVACUATION
VFD	VARIABLE FREQUENCY DRIVE
WG	WIREGUARD
WM	WIRE MOLD
WP	WEATHER PROOF
XFMR	TRANSFORMER

POWER

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 75' IN LENGTH PROVIDE #10 CONDUCTORS. FOR HOMERUNS EXCEEDING 100' 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.

GROUND ROD AS INDICATED

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

MOTOR AS INDICATED

SPD SURGE PROTECTIVE DEVICE AS INDICATED

SINGLE PUSHBUTTON - UON CENTER MOUNTED 48" AFF MAXIMUM

PANELBOARD - BRANCH CIRCUIT TYPE - 120/208V

T T UTILITY TRANSFORMER AS INDICATED (PAD OR POLE MOUNTED)

METER SOCKET

NON-FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - SEE SPECIFICATIONS - UON MOUNT TOP OF ENCLOSURE 66" AFF

FUSIBLE DISCONNECT SWITCH - HEAVY DUTY - FUSED AS INDICATED ON PLANS - SEE SPECIFICATIONS - UON MOUNT TOP OF ENCLOSURE 66" AFF

ENCLOSED CIRCUIT BREAKER - HEAVY DUTY - SEE SPECIFICATIONS - UON MOUNT TOP OF ENCLOSURE 66" AFF

SINGLE RECEPTACLE - 20A, 120V - UON 15" AFF FROM BOTTOM OF BOX.

DUPLEX RECEPTACLE - 20A, 120V - UON 15" AFF FROM BOTTOM OF BOX.

COUNTERTOP DUPLEX RECEPTACLE - 20A, 120V - UON 48"AFF FROM TOP OF BOX.

DOUBLE DUPLEX RECEPTACLE - 20A, 120V - UON 15"AFF FROM BOTTOM OF BOX.

COUNTERTOP DOUBLE DUPLEX RECEPTACLE - 20A, 120V - UON BOTTOM MOUNTED 42" AFF

EQUIPMENT OR SIGNAGE CONNECTION

CONTROLLED RECEPTACLE — 18" PREFERRED 15" MIN

SPLIT CONTROLLED RECEPTACLE

LIGHTING

1A CEILING MOUNTED 2'x4' LIGHT FIXTURE

1A CEILING MOUNTED 2'x2' LIGHT FIXTURE

1A CEILING MOUNTED LIGHT FIXTURE

1A WALL MOUNTED LIGHT FIXTURE

1A CEILING MOUNTED ROUND LIGHT FIXTURE

1A CEILING MOUNTED SQUARE LIGHT FIXTURE

1A WALL MOUNTED LIGHT FIXTURE

1A FLUORESCENT STRIP

1A POLE MOUNTED AREA LIGHT - 1 HEAD

1A POLE MOUNTED AREA LIGHT - 2 HEADS

1A EXIT SIGN - SINGLE FACE

1A EXIT SIGN - DOUBLE FACE

SWITCHING

$ SINGLE POLE SWITCH - 20A, 120V - UON 48" AFF FROM TOP OF BOX.

$2 DOUBLE POLE SWITCH - 20A, 120V - UON 48" AFF FROM TOP OF BOX.

$3 THREE WAY SWITCH - 20A, 120V - UON 48" AFF FROM TOP OF BOX.

$4 FOUR WAY SWITCH - 20A, 120V - UON 48" AFF FROM TOP OF BOX.

$K KEYED SWITCH - 20A, 120V - UON 48" AFF FROM TOP OF BOX.

$D DIMMER SWITCH - UON 42" AFF FROM TOP OF BOX.

$M MOTOR RATED SWITCH WITH TOL - SEE EQUIPMENT SCHEDULE FOR SPECIFICATIONS

TS TIME SWITCH AS INDICATED - UON MOUNT TOP OF ENCLOSURE 66" AFF

PC PHOTO CELL - COORDINATE MOUNTING LOCATION WITH ARCHITECT

LIGHTING CONTACTOR - ELECTRICALLY HELD - NUMBER OF POLES AS NEEDED

OS OCCUPANCY SENSOR - WALL MOUNTED - SEE SPECIFICATIONS - UON CENTER MOUNTED 42" AFF

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. LIGHTING FIXTURES SHALL BE INTERPRETED AS FOLLOWS:
   - NORMAL BRANCH CIRCUIT
   - EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
3. NUMBERS SHOWN ON PLANS ADJACENT TO WIRING DEVICES INDICATE BRANCH CIRCUIT NUMBER.
4. STANDARD SYMBOLS SHOWN ON LEGEND MAY NOT APPEAR ON ALL PLANS. WHERE SYMBOL APPEARS ON PLANS FURNISH AND INSTALL AS SPECIFIED.

COMMUNICATIONS

W TELEPHONE - WALL MOUNTED - UON CENTER MOUNTED 18" AFF

TELEPHONE OUTLET - WALL MOUNTED - UON CENTER MOUNTED 18" AFF

DATA/TELEPHONE OUTLET - WALL MOUNTED - UON CENTER MOUNTED 18" AFF

TV TV OUTLET - WALL MOUNTED - UON CENTER MOUNTED 18" AFF

FLUSH FLOOR BOX WITH THE FOLLOWING:
(2) DATA OUTLETS
(2) TELEPHONE OUTLETS
(1) QUAD RECEPTACLE OUTLET (ONE STANDARD AND ONE ISOLATED GROUND DUPLEX)
WIREMOLD RFB4 SERIES CAST IRON FLOOR BOX WITH POWER AND COMMUNICATION ACCESSORIES AS REQUIRED PLUS APPROPRIATE COVER PLATE IN BRASS FINISH. CONTRACTOR TO FURNISH AND INSTALL FLOOR BOX AND ALL OUTLETS, CONNECTORS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.

FIRE ALARM

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

RA REMOTE ALARM INDICATOR WITH KEY OPERATED TEST SWITCH, LED, AND RESET - WALL MOUNT 60" AFF TO CENTER

R RELAY - FOR UNIT SHUT-DOWN

SECURITY

CR CARD READER - UON BOTTOM MOUNTED 48" AFF

PB PUSH BUTTON ACTUATOR - UON BOTTOM MOUNTED 48" AFF

KP KEY PAD - UON BOTTOM MOUNTED 48" AFF

ES ELECTRIC STRIKE - MOUNTED ON DOOR

DC DOOR CONTACT - MOUNTED ON DOOR FRAME

TM AUTOMATIC TELLER MACHINE

D AHD - AFTER HOURS DEPOSITORY

C ALARM TCD - TELLER CASH DISPENSER

AL ALARM LIGHT/LAMP @ 80" A.F.F., U.O.N.

V VAULT

HB HUB - HOLDUP BUTTON WHUB - WIRELESS HOLDUP BUTTON

DSS ALARM SHUNT SWITCH

DPT DYE PACK TRANSMITTER

MSP MAIN SECURITY PANEL

JB/M JUNCTION BOX/MAIN

VSS VIDEO SWITCHER

VT VIDEO TIMER

DVR DIGITAL VIDEO RECORDER

VM VIDEO MONITOR

R RADIO @ 12" ABOVE CEILING

IC INTERNAL ATM CAMERA

NOTE:
SECURITY/COMMUNICATION SYSTEM G.C. TO PROVIDE ROUGH-IN @ CONCEALED SPACES;
ROUGH-IN TO CONSIST OF 3/4" CONDUIT, 4x4 BOXES AND SINGLE GANG RINGS (VERTICAL)

CONDUITS NOTE

"RIGID CONDUIT IS PERMITTED IN DEMISING WALLS OR FOR PRIMARY ELECTRICAL RUNS. IF INSTALLED IN PARTITION WALLS OR ABOVE CEILING, FLEXIBLE CONDUIT SHALL BE PERMITTED."

SCOPE OF WORK

PROPOSED FIRST BUILD TENANT IMPROVEMENT FOR CHASE BANK. SCOPE OF WORK TO INCLUDE NEW POWER AND LIGHTING THROUGHOUT TENANT SPACE INCLUDING HVAC UNITS.

POWER:
- INSTALLATION OF NEW ELECTRICAL DISTRIBUTION PANELS AND FEEDERS FOR TENANT CIRCUITS.
- INSTALLATION OF LANDLORD PROVIDED STEP-DOWN TRANSFORMER.
- INSTALLATION OF NEW TENANT SERVICE BREAKER AND FEEDER FROM LANDLORD METER SWITCHBOARD.

LIGHTING:
- INSTALLATION NEW LIGHTING AND CONTROLS THROUGHOUT TENANT SPACE IN COMPLIANCE WITH 2021 WSEC.

REFERENCE CODES

2023 NATIONAL ELECTRICAL CODE (NEC, NFPA 70)
2021 WASHINGTON STATE ENERGY CODE (WSEC)
2021 INTERNATIONAL BUILDING CODE (IBC)

GENERAL NOTES:

1.	ALL ENDS OF CONDUIT SYSTEM SHALL HAVE A BUSHING OR A COUPLING INSTALLED FOR THE PURPOSE OF PROVIDING PROTECTION OF CONDUCTORS.
2.	ALL LOW VOLTAGE WIRING IN INACCESSIBLE AREAS SHALL BE INSTALLED IN METALLIC CONDUIT.
3.	CONDUIT SYSTEMS INSTALLED ON THE ROOF SHALL BE SUPPORTED EVERY FIVE FEET.
4.	E.C. TO PROVIDE ALL WIRING INCLUDING LOW VOLTAGE TO DRIVE-UP LANE DESIGNATOR SIGNAGE. REFER TO MANUFACTURERS WIRING DIAGRAMS.
5.	THE CONDUITS THAT CONTAIN THE SERVICE CONDUCTORS FROM THE METER TO THE ELECTRICAL ROOM SHALL BE ENCASED IN A MINIMUM OF FOUR INCHES (4") OF CONCRETE.
6.	THE CIRCUIT BREAKERS FOR EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE LOCATED IN THE BOTTOM RIGHT OF THE ELECTRICAL PANEL IF APPLICABLE
7.	ALL WIRING FOR THE PURPOSE OF EMERGENCY SYSTEMS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM AND COMPLETELY INDEPENDENT.
8.	THERE SHALL BE A SEPARATED IDENTIFIED NEUTRAL INSTALLED FOR EACH EMERGENCY LIGHTING CIRCUIT AND/OR EXIT LIGHTING CIRCUIT.
9.	THE FUSE HOLDER FOR THE PARKING LOT LIGHTING SHALL BE BUSSMANN IN-LINE, TYPE "HEB-AA" OR EQUAL, WITH A RUBBER COVER "BOOT" TO BE INSERTED OVER THE CRIPED AREA OF THE FUSE HOLDER.
10.	AT LEAST TWO CORNERS OF EACH LIGHTING FIXTURE (CEILING GRID SYSTEMS) SHALL BE SUPPORTED INDEPENDENTLY FROM ANY OTHER SUPPORTING SYSTEM.
11.	ALL FLUORESCENT LIGHTING SHALL BE PROTECTED BY A MAXIMUM OF A TWENTY (20) AMP CIRCUIT BREAKER.
12.	ALL GREENFIELD SHALL CONTAIN A PROPERLY SIZED GREEN GROUND CONDUCTOR AND SHALL NOT EXCEED SIX FEET (6') IN LENGTH.
13.	A 3/4" EMT CONDUIT AND A 2-1/2" EMT CONDUIT SHALL BE RUN INTO THE ATTIC SPACE FOR FUTURE EXPANSION. A 3/4" EMT OR LARGER SHALL BE PROVIDED OFF OF THE SLAB AS WELL. THE ENDS OF SUCH CONDUITS SHALL BE PROTECTED BY AT LEAST ONE (1) BOX WITH A COMPLETELY ENCLOSED COVER.
14.	ALL BRANCH CIRCUIT CONDUCTORS SHALL BE CONNECTED BY MEANS OF A SCREW TERMINAL.
15.	THE CONTINUITY OF ANY BRANCH CIRCUIT CONDUCTOR INCLUDING ANY IDENTIFIED GROUNDED CONDUCTOR SHALL NOT DEPEND UPON DEVICE CONNECTIONS, SUCH AS LAMPHOLDERS, RECEPTACLES, ETC., WHERE THE REMOVAL OF SUCH DEVICES WOULD INTERRUPT THE CONTINUITY.
16.	DE-RATING OF NEUTRALS IS PROHIBITED.
17.	THE USE OF AUXILIARY GUTTERS, WIREWAYS, RACEWAYS AS ENCLOSURES FOR SERVICE ENTRANCE OR TAPPING OF SERVICE ENTRANCE CONDUCTORS IS STRICTLY PROHIBITED.
18.	METAL IDENTIFICATION TAGS SHALL BE INSTALLED WHERE THE GROUNDING CONDUCTOR IS CONNECTED TO THE GROUNDING ELECTRODE.
19.	ALL SWITCH AND RECEPTACLE COVERPLATES TO BE WHITE.
20.	ALL JUNCTION BOXES FOR SIGNAGE SHALL BE PLACED AS CLOSE AS POSSIBLE TO CENTER SIGNAGE.

FACILITIES COMMENTS

ELECTRICAL CONTRACTOR TO STICK-ON LABEL TO ALL RECEPTACLES.

ELECTRICAL CONTRACTOR TO STICK-ON LABEL TO ALL BREAKERS. BLANK BREAKERS LABEL SPARE. ON EACH PANEL.

EMERGENCY EXITS WITH AUDIBLE ALARMS: VON-DUPRIN MODEL# 99NL-OP ALK-ARI 3 PS9.

CHASE BANK GENERAL NOTE

CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THERMOSTATS, SWITCHES, FLOOR AND WALL RECEPTACLES, CARD READER, DOOR ACTUATOR, J-BOXES, ETC. WITH ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT THE ARCHITECT IN CASE OF ANY DISCREPANCIES AND AWAIT FOR A WRITTEN RESPONSE PRIOR TO PROCEEDING WITH THE WORK.

DRAWING INDEX

DRAWING NO	DESCRIPTION
E0.0	LEGEND, ABBREVIATIONS, NOTES, & INDEX
E1.0	LIGHTING PLAN
E1.1	LUMINAIRE SCHEDULE
E1.2	LIGHTING CONTROL DETAILS
E1.3	LIGHTING CONTROL DETAILS
E1.4	LIGHTING CONTROL DETAILS
E2.0	POWER PLAN
E2.1	POWER PLAN DETAILS
E2.2	HVAC POWER PLAN
E3.0	ONE-LINE DIAGRAM AND PANEL SCHEDULES
E3.1	VOLTAGE DROP CALCULATIONS
E4.0	TELLER POWER DETAILS
E4.1	ENLARGED DATA ROOM & ELEVATIONS
E5.0	SECURITY PLAN
E5.1	SECURITY DETAILS
E5.2	SECURITY DETAILS
E6.0	ENERGY COMPLIANCE FORM

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
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ARCHITECT/ ENGINEER OF RECORD

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ROY PEDRO ARCHITECT

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SEAL

JAMES A. YBARRA — STATE OF WASHINGTON — 24400 — REGISTERED PROFESSIONAL ENGINEER
06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

LEGEND, ABBREVIATIONS, NOTES, & INDEX

SHEET NUMBER

E0.0

LIGHTING PLAN KEYED NOTES (NOT ALL ARE USED)

1. GENERAL AREA LIGHTING SWITCHBANK WITH LIGHTING OVERRIDE CAPABILITY. FIELD DETERMINE EXACT LOCATION. SWITCHBANK SHALL BE CAPABLE OF DIMMING THE GENERAL AREA, ENTRY LIGHTING, AND DISPLAY LIGHTING. REFER TO SHEET E1.2/E1.3 FOR DETAILS.
2. CONNECT INTERNAL BATTERY UNIT IN EMERGENCY ('E'/'EM') FIXTURE TO CONSTANT ON CIRCUIT CONDUCTOR (SAME CIRCUIT SERVING FIXTURE) AHEAD OF ANY LOCAL WALL SWITCH, TIMECLOCK, OR PHOTOCELL CONTROLS. EMERGENCY FIXTURE TEST SWITCH TO BE INSTALLED IN ACCESSIBLE LOCATION OUTSIDE OF PUBLIC VIEW IF POSSIBLE. COORDINATE WITH ARCHITECT FOR TEST SWITCH LOCATION PRIOR TO ROUGH-IN. (TYPICAL)
3. PROVIDE MULTIPLE WIRELESS ADAPTERS WHERE CIRCUIT CURRENT OR NUMBER OF FIXTURES EXCEED THE MAXIMUM PERMITTED FOR A SINGLE ADAPTER. DO NOT COMBINE MULTIPLE FIXTURE TYPES ON A SINGLE ADAPTER. EQUIPMENT LOCATIONS TO BE COORDINATE WITH CONTROLS VENDOR DRAWINGS.
4. L410/L411/L412/413 FIXTURE SHALL BE UNSWITCHED FOR SECURITY LIGHTING AND SHALL PROVIDE NO LESS THAN 0.1 WATTS PER SQUARE FOOT OF ILLUMINATION.
5. ILLUMINATED OCTAGONAL SIGNAGE: CONTRACTOR TO PROVIDE MAXBRITE DIMMER *RE-DIM12V AND LED POWER SUPPLY (MAXBRITE ECONO LP-1260P-12). EQUIPMENT SHALL BE INSTALLED ABOVE DROPPED CEILING. REMOTELY MOUNTED 12V DC MAXBRITE DIMMER MUST BE WIRED TO SECONDARY (12V) SIDE OF THE POWER SUPPLY.
6. SIGNAGE ELECTRICAL CONNECTION: PROVIDE JBOX ABOVE CEILING WITH MULTIPLE FLEXIBLE CONDUIT TERMINATIONS IN WALL BELOW FOR OWNER'S SIGN. REFER TO SIGNAGE VENDOR'S SHOP DRAWINGS FOR EXACT ELECTRICAL WHIP ROUGH-IN LOCATION. CIRCUIT TO SINGLE-POLE DUAL-THROW WALL SWITCH IN MANUAL TRANSACTIONS AREA AND CONTROLLED INDEPENDENTLY FROM DAINTREE BMS.
7. REFER TO DETAIL 'EXHAUST FAN CONTROL DIAGRAM' ON SHEET E1.1 FOR DUAL RELAY OCCUPANCY SENSOR WIRING. WIRE ONE RELAY FOR ROOM LIGHTING CONTROL. WIRE SECOND RELAY IN PARALLEL WITH THE RESTROOM/JANITOR CLOSEST OCCUPANCY SENSORS AND LOUNGE TIMER SWITCH FOR EXHAUST FAN CONTROL.
8. FIXTURE WITH INTEGRAL OCC. SENSORS, SEPARATE CONTROLS ARE NOT REQUIRED.
9. PROVIDE EXTERIOR PHOTOCELL SENSOR. CONNECT TO NEAREST WA100-PM SERVING EXTGERIOR LIGHTING OR SIGNAGE VIA LOW-VOLTAGE WIRING. COORDINATE LOCATION WITH CONTROLS VENDOR DRAWINGS.
10. VESTIBULE AREA IS ON 24-HOUR OPERATION AND IS EXEMPT FROM OCCUPANCY SHUT-OFF CONTROLS DUE TO SECURITY/SAFETY PROTOCOL FOR PUBLIC ACCESS MONEY ATM MACHINES.
11. PROVIDE JUNCTION BOX IN NEAREST SPACE WITH ACCESSIBLE CEILING FOR SIGNAGE CIRCUIT TERMINATION. EC TO COORDINATE EXTERIOR CONDUIT ROUTING WITH ARCHITECT.
12. EXISTING EXTERIOR LIGHTING TO REMAIN UNLESS OTHERWISE NOTED. EC TO SURVEY EXISTING LANDLORD-PROVIDED LIGHTING CONTROL SYSTEM AND COORDINATE WITH DAINTREE CONTROLS VENDOR FOR INTEGRATION. IF SYSTEMS ARE INCOMPATIBLE, EC TO PROVIDE NEW DAINTREE CONTROLS. FIELD DETERMINE ACCURACY AND UPDATE AS NECESSARY.
13. ROOM/AREA IS NOT REQUIRED TO HAVE DAYLIGHT RESPONSIVE CONTROLS PER IECC C405.2.4. DAYLIGHT RESPONSIVE CONTROLS ARE ONLY REQUIRED FOR SPACES WITH MORE THAN 150W OF GENERAL LIGHTING WITHIN THE PRIMARY SIDELIT/TOPLIT DAYLIGHT ZONE OR MORE THAN 300W OF GENERAL LIGHTING WITHIN THE COMBINED PRIMARY AND SECONDARY DAYLIGHT ZONES.
14. PROVIDE DAYLIGHT RESPONSIVE CONTROLS IN ROOM/AREA PER IECC C405.2.4. CONTRACTOR TO COORDINATE WITH DAINTREE CONTROL DRAWINGS.
15. PROVIDE NEW WALL SCONCE. EC TO MATCH EXISTING SCONCE FIXTURES AND EXTEND CONTROLS/CIRCUITING.

GENERAL LIGHTING NOTES

- CONNECT EXIT SIGNS AHEAD OF LOCAL SWITCHING.
- PROVIDE SEPARATED IDENTIFIED NEUTRALS FOR EMERGENCY LIGHTS AND EXIT SIGNS.
- ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA, ETC.) (NEC 110-2).
- SECURELY FASTEN EACH RECESSED LIGHT FIXTURE TO THE CEILING SYSTEM WITH APPROPRIATE SUPPORT BRACKETS AND CLIPS PER INDUSTRY STANDARDS.
- ELECTRICAL CONTRACTOR TO VERIFY TYPE OF MOUNTING FOR HARD LID AND SUSPENDED CEILING GRID BEFORE ORDERING.
- ALL LIGHTING SHALL BE PROTECTED BY A MAXIMUM OF A 20 AMP CIRCUIT BREAKER.
- INSTALL JUNCTION BOXES FOR SIGNAGE AS CLOSE TO CENTER OF SIGNAGE AS POSSIBLE.
- COORDINATE LOCATION OF ALL LUMINAIRES WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL LOW VOLTAGE WIRING FOR LIGHTING CONTROL SYSTEM. VERIFY QUANTITY AND REQUIREMENTS WITH MANUFACTURER PRIOR TO WORK.
- CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
- CONTRACTOR SHALL COORDINATE ALL DAINTREE EQUIPMENT AND LAYOUT WITH DAINTREE VENDOR PLANS.
- FOR NON 0-10V DIMMING FIXTURES USE PHASE CONVERTER. SEE SHEET E1.4 FIGURE 2.
- EXTERIOR LIGHTS DENOTED WITH (E) ARE EXISTING TO REMAIN.

DAINTREE CONTROL NOTES

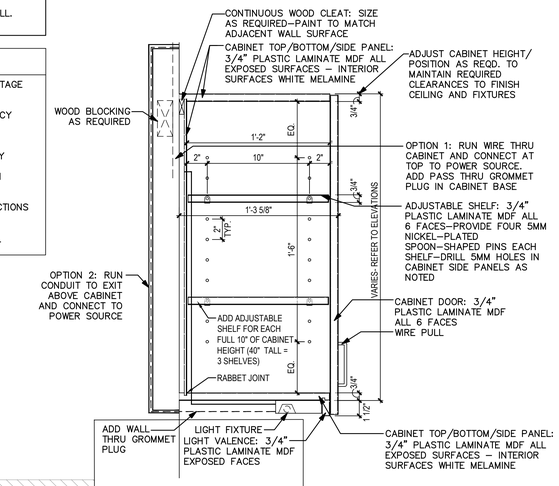
- EMERGENCY/NIGHT LIGHT LUMINAIRES WILL BE WIRED TO RESPECTIVE ZONE 0-10V CONTROL ONLY. EMERGENCY/NIGHT LIGHTS ARE UNSWITCHED.
- SIGNAGE, EXTERIOR LIGHTING, HOT WATER HEATERS AND OTHER NON LIGHTING CONTROLS WILL BE PROVIDED BY WIRELESS ADAPTERS AT PANEL LOCATED IN ELECTRICAL ROOM.
- ALL SWITCH PACKS ARE UNNECESSARY. ALL LOW VOLTAGE SENSOR WIRING IS ALSO REMOVED AND IS OBSOLETE WITH A WIRELESS SYSTEM.
- ALL LUMINAIRES CONTAINED IN A DEFINED ZONE MUST BE DAISY CHAINED WITH 0-10V DIMMING WIRE TO THE RESPECTIVE ZONE WA100-PM.
- ALL LUMINAIRES MUST BE 0-10V DIMMING FOR DAINTREE TO PROVIDE DIMMING CONTROL.
- ALL WA100-PM WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED POWER AND SWITCH THE RESPECTIVE LUMINAIRES IN SPECIFIED ZONE. ZONES ARE LABELED BY LETTER.
- ELECTRICAL CONTRACTOR MUST PERFORM WIRELESS ADAPTER TEST DURING/POST INSTALL. SEE WA100-PM INSTALLATION GUIDE FOR INSTRUCTIONS.

DAINTREE CONTROLS KEY

OS	WOS2-RM-E WIRELESS OCCUPANCY SENSOR CEILING RECESSED MOUNT; PIR, 1000 SF COVERAGE	$	SINGLE POLE DOUBLE THROW LINE VOLTAGE TOGGLE SWITCH
OS	WOS3-PCWIRELESS PHOTOSENSOR, CEILING-MOUNT	$os	WALL-MOUNT SINGLE-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH: CURRENT LIGHTING #LHRIRS1-G-WH
VAPH	WA100-PM WIRELESS ADAPTER WITH POWER MONITORING	$oc2	WALL-MOUNT DUAL-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH: CURRENT LIGHTING #LHRDCMTD2-G-WH
B	WIRELESS WALL SWITCH: DAINTREE NETWORKS #WWD2-2SM, FUNCTIONS AS SWITCH AND/OR DIMMER, USE AS MANUAL ON/OFF, MANUAL ON / AUTO OFF	$T	WIRELESS TIMER SWITCH: DAINTREE NETWORKS #WWD2-SM, FUNCTIONS AS 15-MINUTE EXHAUST FAN TIMER
		EX PS	CES/0-24-0-10 EXTERIOR PHOTOCELL

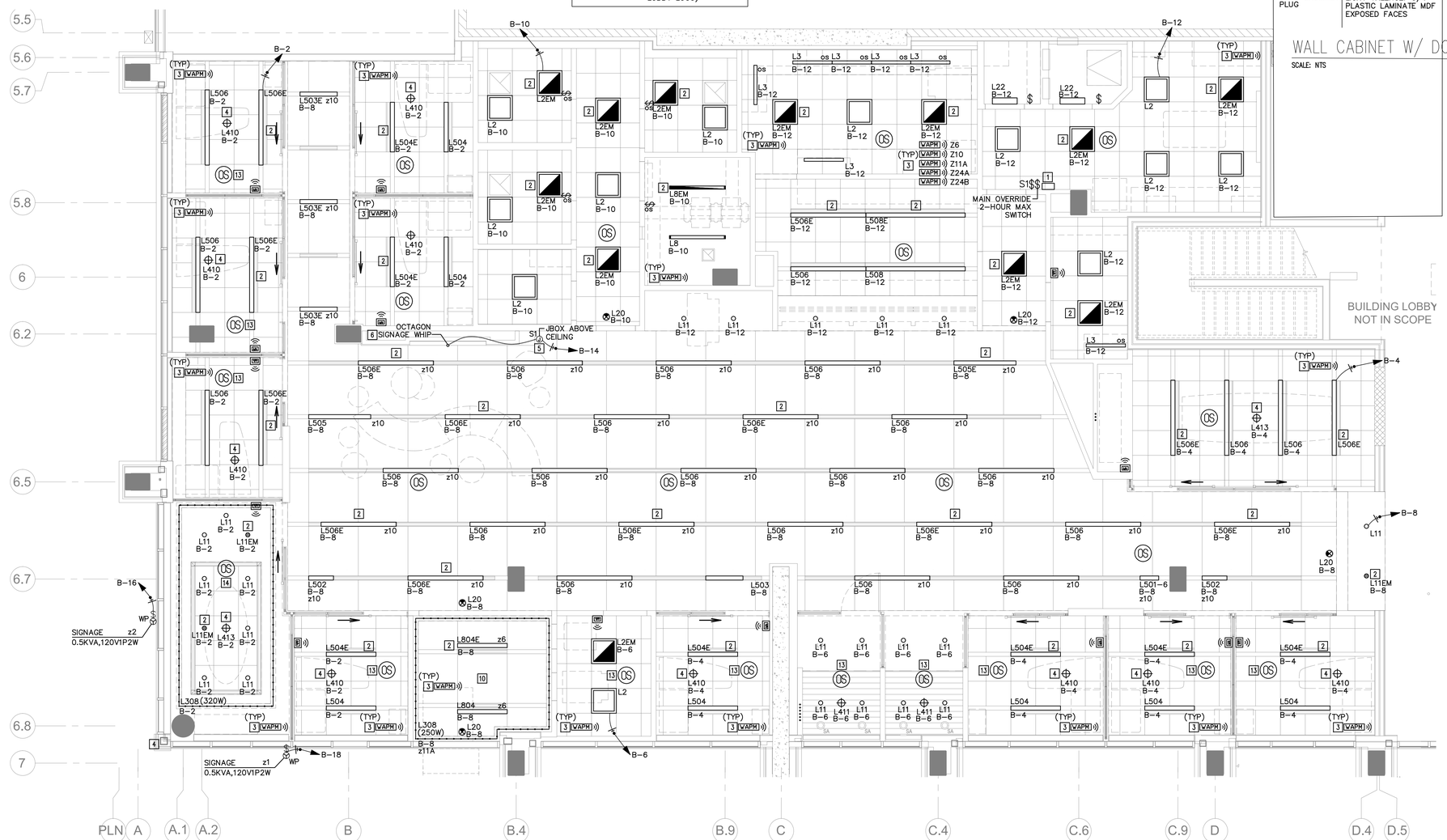
1 LIGHTING SWITCH BANK SCHEDULE

B z1	(S/E SIGNAGE)
B z2	(N/W SIGNAGE)
B z3,z4,z5	(EXT. LIGHTING)
B z6	(VESTIBULE GENERAL)
B z10	(LOBBY GENERAL)
B z11A	(VESTIBULE ACCENT)
B z24A	(MERCHANDISING UNITS)
B z24B	(WELCOME MERCH, LOBBY LOGO)



WALL CABINET W/ DOORS AND LIGHT FIXTURE

SCALE: NTS



LIGHTING PLAN

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

0' 4' 8' 16'

PREPARED FOR: CHASE

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JAMES A. YBARRA — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 06/12/26

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CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

E1.0

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	VOLTAGE	WATTAGE
L2		RECESSED 2X2 LENSED 20W 3500K LED PANEL	LITELINE: LEDP-22-WH-WHIP-35-20-120/277	120	20
L2EM		SAME AS ABOVE W/ BACTTERY BACKUP	SAME AS ABOVE W/ BACTTERY BACKUP	120	20
L3		20.7" LED UNDERCAB. LIGHT WITH OCCUPANCY SENSOR	FEELUX: TUN7-35K-SF-STD-S-HW-OCC-120	120	7
L8		4' CABLE MOUNTED SUSPENDED LIGHT – 10' AFF	GE LIGHTING: ALC6-1-4T04-T-C8-1D-S-Q-Q-Q-51-A-Q-W	120	27
L8EM		SAME AS ABOVE W/ BACTTERY BACKUP	SAME AS ABOVE W/ BACTTERY BACKUP	120	27
L11		4" ROUND LENSED LED DOWNLIGHT	GE: LDXB-4R-0-10-T-35-V1 + RD14R-W-PT-WT-WT + BH3 (OPTIONAL)	120	14
L11EM		SAME AS ABOVE W/ BACTTERY BACKUP	SAME AS ABOVE W/ BACTTERY BACKUP	120	14
L20		LED UNIVERSAL-MOUNT EXIT SIGN WITH 90-MINUTE BATTERY BACK-UP	ENCORE: UNO-X SERIES	120	5
L22		2' LED LINEAR LOW PROFILE LENSED FIXTURE W/ OCCUPANCY SENSOR	LITHONIA – ZL1N L24 1500LM FST MVOLT 35K 80CRI WH LBOZU (GREEN)	120	18
L308		BLUE LED STRIP 2W/FT	ECOSENSE: L35-I-12"-02-BL-MULT-120	120	2
L410		17" DIAMETER, MATTE BLACK FINISH, ELV DIMMING, INSTALLED 82" AFF TO BO FIXT	BASELITE: FP17/41.5/BLE17F/SP-LSTBLC5-2/LED25W/3K/DM-TRIAC/120V/277V	120	40
L411		PENDANT – 15.75" DIAMETER, BLACK POWDER FINISH, INTEGRAL LED DRIVER, INSTALLED +82" AFF TO B.O. FIXT; SET DIMMING PER BMS CONTROL SCHEDULE	BASELITE: PEQ/41.5/LBLC/LED12W/3K/DMO-10V/120V + SP-LBLC5-2	120	12
L412		10" DIAMETER, MATTE BLACK FINISH, ELV DIMMING, INSTALLED +82" AFF TO B.O. FIXTURE	BASELITE: PENB/41.5/SP-LBLC5-2/LED12W/3K/DMO-10V/120V	120	12
L413		22" DIAMETER, MATTE BLACK FINISH, ELV DIMMING, INSTALLED +82" AFF TO BO FIXTURE	BASELITE: CS22/XX/LED12W/XXK/DMO-10V/BLC/120V	120	10
L501-6		1.5' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 1.5' IND 0-10	120	4.5
L502		2' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 2' IND 0-10	120	6
L502-6		2.5' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 2.5' IND 0-10	120	7.5
L502E		2' RECESSED LINEAR LED (3W/FT) W/ EMERGENCY BATTERY BACKUP	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 2.5' IND 0-10	120	7.5
L503		3' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 3' IND 0-10	120	9
L503-6		3.5' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 3'-6" CUS 0-10	120	10.5
L503E		3' RECESSED LINEAR LED (3W/FT)W/ EMERGENCY BATTERY BACKUP	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 3' IND 0-10 EMB	120	9
L504		4' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 4' IND/CON 0-10	120	12
L504E		4' RECESSED LINEAR LED (3W/FT) W/ EMERGENCY BATTERY BACKUP	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 4' IND/CON 0-10 EMB	120	12
L505		5' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 5' CON 0-10	120	15
L506		6' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 6' IND/CON 0-10	120	18
L506E		6' RECESSED LINEAR LED (3W/FT) W/ EMERGENCY BATTERY BACKUP	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 6' IND/CON 0-10 EMB	120	18
L508		8' RECESSED LINEAR LED (3W/FT)	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 8' IND/CON 0-10	120	24
L508E		8' RECESSED LINEAR LED (3W/FT) W/ EMERGENCY BATTERY BACKUP	AMERLUX: GRUV4-HE-GRID-A16 PL 3 35 HW 120 8' IND/CON 0-10 EMB	120	24
L804		4' LINEAR CABLE SUSPENDED ACOUSTIC BAFFLE LED (5W/FT)	AMERLUX: CAR2-D-ASY-ASW10-5-40-HW-120/277-4'-CON-0-10V (CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING MATERIALS NOT INCLUDED IN THE 'ASW10' CABLE SUSPENSION KIT. REFER TO MANUFACTURER INSTALLATION MANUAL/DETAIL PRIOR TO ROUGH-IN.)	120	20
L804E		8' LINEAR CABLE SUSPENDED ACOUSTIC BAFFLE LED (5W/FT) W/ EMERGENCY BATTERY BACKUP	AMERLUX: CAR2-D-ASY-ASW10-5-40-HW-120/277-4'-CON-0-10V-EMB (CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING MATERIALS NOT INCLUDED IN THE 'ASW10' CABLE SUSPENSION KIT. REFER TO MANUFACTURER INSTALLATION MANUAL/DETAIL PRIOR TO ROUGH-IN.)	120	20

NOTE: SET ALL LIGHTING FIXTURES PER BMS SCHEDULE

NOTES:

— MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1-FOOT CANDLE AT THE WALKING SURFACE AND EQUIPPED WITH NOT LESS THAN 90-MINUTE BATTERY BACKUP..

— EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES AND EQUIPPED WITH NOT LESS THAN 90-MINUTE BATTERY BACKUP.

ELCTRICAL DEVICE FINISHES

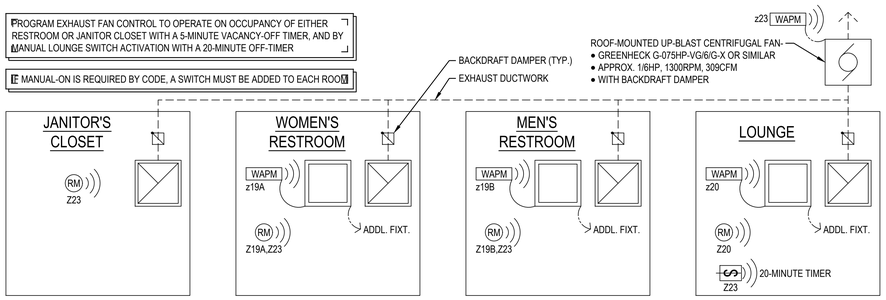
WALL DEVICE COLOR	WHITE
CEILING DEVICE COLOR	WHITE

NOTE TO LUMINAIRE SCHEDULE:

ALL LIGHTING FIXTURES SHALL BE ORDERED FROM THE NATIONAL ACCOUNT VENDOR.
ISAIAH RAMDEEN
FSG
EMAIL: JPMCRETAIL_@FSGI.COM
PHONE: 1-800-347-5530 EXT. 12137

PROGRAM EXHAUST FAN CONTROL TO OPERATE ON OCCUPANCY OF EITHER RESTROOM OR JANITOR CLOSET WITH A 5-MINUTE VACANCY-OFF TIMER, AND BY MANUAL LOUNGE SWITCH ACTIVATION WITH A 20-MINUTE OFF-TIMER

IF MANUAL-ON IS REQUIRED BY CODE, A SWITCH MUST BE ADDED TO EACH ROOM



PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
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SEAL

JAMES A YBARRA
STATE OF WASHINGTON
22004
REGISTERED
PROFESSIONAL ENGINEER
06/12/26

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CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

LUMINAIRE SCHEDULE

SHEET NUMBER

E1.1

DAINTREE LIGHTING CONTROL

1. INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND MEET THE FUNCTIONAL REQUIREMENTS OF THE SYSTEM.

2. CONTROLSCOPE UTILIZES DISTRIBUTED CONTROL FOR ON/OFF AND DIM STATE. EXISTING RELAY PANELS AND LINE-SIDE SWITCHES MUST BE OVERRIDDEN OR REMOVED. ALL WIRELESS ADAPTER MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER.

3. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.

4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
a. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
b. RESET ADAPTER (ALL ADAPTERS)
c. PERFORM PROPER TEST SUITE.

5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT:
https://products.currentbyge.com/control-systems/daintree-enterprises-wireless-conrols.

6. DO NOT INSTALL BATTERIES IN WIRELESS DEVICES PRIOR TO APPROVAL FROM GE/S COMMISSIONING LIAISON. INSTALLING BATTERIES MORE THAN 10 DAYS PRIOR TO COMMISSIONING CAN RESULT IN PREMATURE BATTERY FAILURE.

7. TO AVOID FALSE TRIGGERS FROM OCCUPANTS WALKING PAST OPEN DOORS, CARE SHOULD BE TAKEN TO PLACE SENSORS WITH NO OR MINIMAL VIEWING ANGLE THROUGH DOORWAY. IF THE DISTANCE BETWEEN THE DOORWAY AND THE CENTER OF THE ROOM IS LESS THAN 12', IT IS ADVISABLE TO MOVE SENSOR TOWARDS CORNER OF ROOM TO REDUCE THE VIEWING ANGLE THROUGH THE DOORWAY.

DAINTREE POWER/RECEPTACLE CONTROL

1. INSTALLER IS RESPONSIBLE FOR THE FINAL LOCATION OF ALL SENSORS, SWITCHES AND CONTROLLERS AND TO CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND MEET THE FUNCTIONAL REQUIREMENTS OF THE SYSTEM.

2. CONTROLSCOPE UTILIZES DISTRIBUTED CONTROL FOR ON/OFF AND DIM STATE. EXISTING RELAY PANELS AND LINE-SIDE SWITCHES MUST BE OVERRIDDEN OR REMOVED. ALL WIRELESS ADAPTER MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER.

3. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.

4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
a. CONFIRM WIRELESS ADAPTER DIP SWITCHES ARE SET CORRECTLY.
b. RESET ADAPTER (ALL ADAPTERS)
c. PERFORM PROPER TEST SUITE.

5. INSTALLER MUST BECOME FAMILIAR WITH THE PUBLISHED INSTALLATION GUIDES FOR THE PRODUCTS IN THE PROJECT SCOPE. DAINTREE INSTALLATION GUIDES CAN BE FOUND AT:
DAINTREE.NET/RESOUTCES/DEVELOPMENT-TOOLS/

DAINTREE MECHANICAL CONTROL

1. ALL WIRELESS ADAPTERS MUST BE PROVIDED WITH UNINTERRUPTED/UNSWITCHED POWER. WSA10 WIRELESS SENSOR ADAPTERS REQUIRE 24V POWER.
2. DURING INSTALLATION THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR EACH WIRELESS COMPONENT MUST BE RECORDED ON THE SHOP DRAWING SET CORRESPONDING TO THE LOCATION OF THE COMPONENT.
3. FOR ANY SENSORS ATTACHED TO A WIRELESS SENSOR ADAPTER (WSA10) THE LAST 4 DIGITS OF THE IEEE ADDRESS FOR THE RESPECTIVE WSA10 MUST BE RECORDED. THE SPECIFIC WSA10 PORT MUST ALSO BE RECORDED PER SENSOR.
4. DURING WIRELESS ADAPTER INSTALLATION FOLLOW THESE STEPS AS DEFINED IN THE DEVICE INSTALLATION GUIDE IN THE FOLLOWING ORDER.
   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. 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. BIDDERS 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.

BMS LIGHTING AND POWER CONTROL AND SENSOR NOTES

1. COORDINATION WITH THE BMS VENDOR IS REQUIRED. THE ARCHITECT / ENGINEER OF RECORD SHALL ADVISE THE VENDOR 30 DAYS IN ADVANCE OF THE BID DATE THAT PROJECT DESIGN HAS COMMENCED. SUBMITTAL FOR VENDOR REVIEW AND COORDINATION MUST BE EXECUTED WITH ADEQUATE TIME TO ALLOW COORDINATION AND ADJUSTMENTS BETWEEN THE ARCHITECT, MECHANICAL ENGINEER, AND ELECTRICAL ENGINEER BEFORE BID.
2. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION, PROVIDE CONTROL DEVICES AND CIRCUITING AS REQUIRED TO COMPLY WITH ENERGY EFFICIENCY CODE(S) ONLY WHERE APPLICABLE.
3. DESIGNER SHALL CLEARLY INDICATE IN CONSTRUCTION DOCUMENTS THAT THE WIRELESS DEVICE CONTROLS REPLACE TYPICAL HARDWIRED SWITCHING AND WIRING REQUIREMENTS, AND THAT THE CONDUIT SYSTEM IS NOT REQUIRED FOR THE CONTROL DEVICES ASSOCIATED WITH THE BMS EXCEPT AS NOTED.
4. ZONE Z5 FOR EXTERIOR-FACING INTERIOR SIGNAGE NOT PROVIDED WITH THIS PLAN, BUT WOULD BE REQUIRED FOR WALL-WASH RECESSED CANS AIMED AT SIGNAGE, ILLUMINATED LETTER SETS, ETC.
5. EMERGENCY LIGHT FIXTURES WITH BATTERY PACKS ARE NOT INDICATED FOR SEPARATE ZONE CONTROL, BUT SHALL BE PROVIDED WITH CONTROL DEVICES AS REQUIRED TO SYNCHRONIZE FIXTURE SWITCHING WITH OTHER FIXTURES WITHIN THE SPECIFIED ZONE.
6. FIXTURES WITH INTEGRAL OCCUPANCY SENSORS (UNDERCABINET, ETC.) DO NOT REQUIRE ZONE CONTROL SWITCHING
7. EXIT LIGHT FIXTURES ARE EXCLUDED FROM BMS ZONE CONTROL.
8. ROOF CENTRIFUGAL EXHAUST FAN IS NOT CONTROLLED BY BMS. REFER TO DETAIL 3/E2, DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM, 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 SUB-ZONES ARE TO BE PROVIDED AND CONTROLLED BY RELAY CIRCUITS AS DETERMINED BY THE MAXIMUM NUMBER OF FIXTURES PERMITTED ON A SINGLE CIRCUIT.
10. REFER TO SHEET M1 FOR MECHANICAL EQUIPMENT REPORTING AND CONTROL DEVICES.
11. 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.
12. MULTI-POLE CONTACTORS AND RELAYS SHALL BE PROVIDED AS REQUIRED BY THE ELECTRICIAN TO EXECUTE THE DESIGN-INTENT CONTROL CIRCUITING INDICATED IN PLAN.
13. CONTROLLED OUTLETS TO BE PROVIDED ONLY TO THE MINIMUM EXTENT REQUIRED BY APPLICABLE ENERGY CODES. CONTROL SHALL BE PROVIDED BY NEAREST OCCUPANCY SENSOR. OFFICES, AND SIMILAR SPACES SHALL RECEIVE A SINGLE CONTROLLED DUPLEX OUTLET OVER THE DESK. CONFERENCE ROOMS SHALL RECEIVE A SINGLE CONTROLLED DUPLEX WALL OUTLET. ALL LOBBY AND PRINT ROOM CONVENIENCE RECEPTACLES (NOT ADJACENT TO EQUIPMENT) SHALL BE SPLIT-WIRED TO THE NEAREST OCCUPANCY SENSOR.
14. PROVIDE ONE LEAK DETECTOR IN EACH ROOM WITH A WATER HEATER, SUMP/EJECTOR PUMP, OR (SOLENOID VALVE AND/OR CONDENSATE PUMP IF REQUIRED).
15. PROVIDE ONE TEMPERATURE SENSOR IN EACH ROOM WITH ATMS OR SIMILAR TRANSACTION EQUIPMENT, EXCEPT THE LOBBY OR ANY SIMILAR OPEN SPACE. MECHANICAL PLAN SUPERCEDES.
16. CONTROL AND SENSOR DEVICES MUST NOT BE PLACED ON ANY WALL DESIGNATED FOR AN ACCENT FINISH. DEVICES ARE TO BE PLACED AS AS NEAR THE ENDS OF WALLS AS POSSIBLE, SO AS NOT TO INTERFERE WITH MARKETING MATERIAL POSITIONING.
17. LANDSCAPE IRRIGATION CONTROLLER SHALL 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, OR PLUG LOAD CONTROLS ARE REQUIRED, DAINTREE CONTROLS SHALL BE USED. WHERE WALL-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 ACCESSIBILIE 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. DEVICESIN CEILINGS OR OTHER CONCEALED LOCATIONS MUST BE HARDWIRED.
23. ALL DEVICES CONCEALED ABOVE CEILINGS MUST BE POSITIONED SO AS TO BE VISIBLE FROM BELOW.

LIGHTING ZONE CONTROL SCHEDULE

ZONE	LOCATION / ROOM / FUNCTION	CONTROL FUNCTION					REMARKS
		ON	OFF	TYPE	OVER-RIDE	OVER-RIDE LOCATION	
1	DRIVE-UP CANOPY	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
2A, 2B…	BUILDING AND POLE-MOUNT EXTERIOR AREA FIXTURES (SUB-ZONES AS REQUIRED)	PHOTOCELL	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
3A, 3B…	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
5A, 5B	EXTERIOR DECORATIVE AND WALL-WASH FIXTURES AND EXTERIOR-FACING INTERIOR SIGNAGE	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	4
6	VESTIBULE (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1, 5
7	CONFERENCE ROOM ACCENT	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	IN ROOM	
8	CONFERENCE ROOM PENDANT(S) (ALWAYS ON, WITH IN-ROOM OVER-RIDE)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	2
9	PRIVATE OFFICE (PCS) AND BOOTH DESK PENDANTS (ALWAYS ON)	SCHEDULE 50%	SCHEDULE 10%	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	2
10A, 10B…	LOBBY GENERAL (SUB-ZONES AS REQUIRED)	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE, WALL SWITCH	AT OR NEAR TELLER LINE	1
11A, 11B…	VESTIBULE AND LOBBY ACCENT- COVE STRIPS, ETC. (ALWAYS ON)	NA	NA	DAINTREE	SOFTWARE, WALL DIMMER	AT OR NEAR TELLER LINE	
12A, 12B…	OFFICE AND CONFERENCE GENERAL	OCCUPANCY 50%	VACANCY 20 MIN.	DAINTREE	SOFTWARE, WALL DIMMER	IN ROOM	1
13A, 13B…	BOOTH GENERAL	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
14	PRINT / FILE	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
15	SDB CHEST AND VIEWING ROOMS AND SDB VAULTS	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
16A, 16B…	BACK-OF-HOUSE WORK AREAS (LAO, CASH, AT, ATM, ETC.)	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
17	MANUAL TRANSACTIONS (TELLER LINE)	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
18	SERVICE HALLWAYS	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
19A, 19B…	RESTROOMS	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
20	LOUNGE	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
21A, 21B	UTILITY EXCEPT DATA (JANITOR, LADDER, ELEC., PLUMBING, SPRINKLER, ETC)	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	6
22	DATA	OCCUPANCY	VACANCY	DAINTREE	SOFTWARE	NA	
23	RESTROOM / JANITOR / LOUNGE EXHAUST SYSTEM	OCCUPANCY/TIMER	VACANCY/TIMER	DAINTREE	SOFTWARE	NA	7
24	ILLUMINATED MERCHANDISING FIXTURES	SCHEDULE	SCHEDULE	DAINTREE	SOFTWARE	AT OR NEAR TELLER LINE	8

REMARKS:	
1	REFER TOLIGHTING CONTROL NOTE LC-15
2	PROVIDE WIRELESS MANUAL DIMMER PROGRAMMED FOR 50% DIMMING DURING BRANCH HOURS AND 10% DIMMING AFTER BRANCH HOURS.
3	AoR TO ADJUST CONTROL SPECIFICATION AS REQUIRED TO MEET CODES ENFORCED BY AUTHORITY HAVING JURISDICTION.
4	EXTERIOR SITE POLE, BUILDING-MOUNTED, AND SIGNAGE FIXTURES SHALL HAVE A WWD2-2SM MASTER OVER-RIDE SWITCH LOCATED IN INTERIOR SWITCH BANK NEAR TELLER LINE CONTROLLED VIA WA210-PM(S).
5	WHERE LINE VOLTAGE CONTROLS ARE IMPLEMENTED IN LIEU OF DAINTREE CONTROLS, PROVIDE PILOT LIGHT SWITCH WHERE FIXTURES ARE NOT VISIBLE FROM THE SWITCH LOCATION.
6	SWITCHING PREFERENCE FOR UTILITY SPACE LIGHTING (EXCEPT DATA) IS FOR FIXTURES WITH INTEGRAL OCCUPANCY SENSORS, AND TO ELIMINATE SWITCHING.
7	4-WAY OCCUPANCY SENSOR / DAINTREE PUSH-BUTTON TIMER CIRCUIT- REFER TO 3/E2 DESIGN-INTENT EXHAUST FAN CONTROL DIAGRAM.
8	REFER TO LIGHTING CONTORL NOTE LC-19.

NOTE: CONTRACTOR SHALL REFERENCE SHEET E1.0 LIGHTING PLAN FOR ZONING

PREPARED FOR:

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SEAL

JAMES A. YBARRA
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

LIGHTING CONTROL DETAILS

SHEET NUMBER

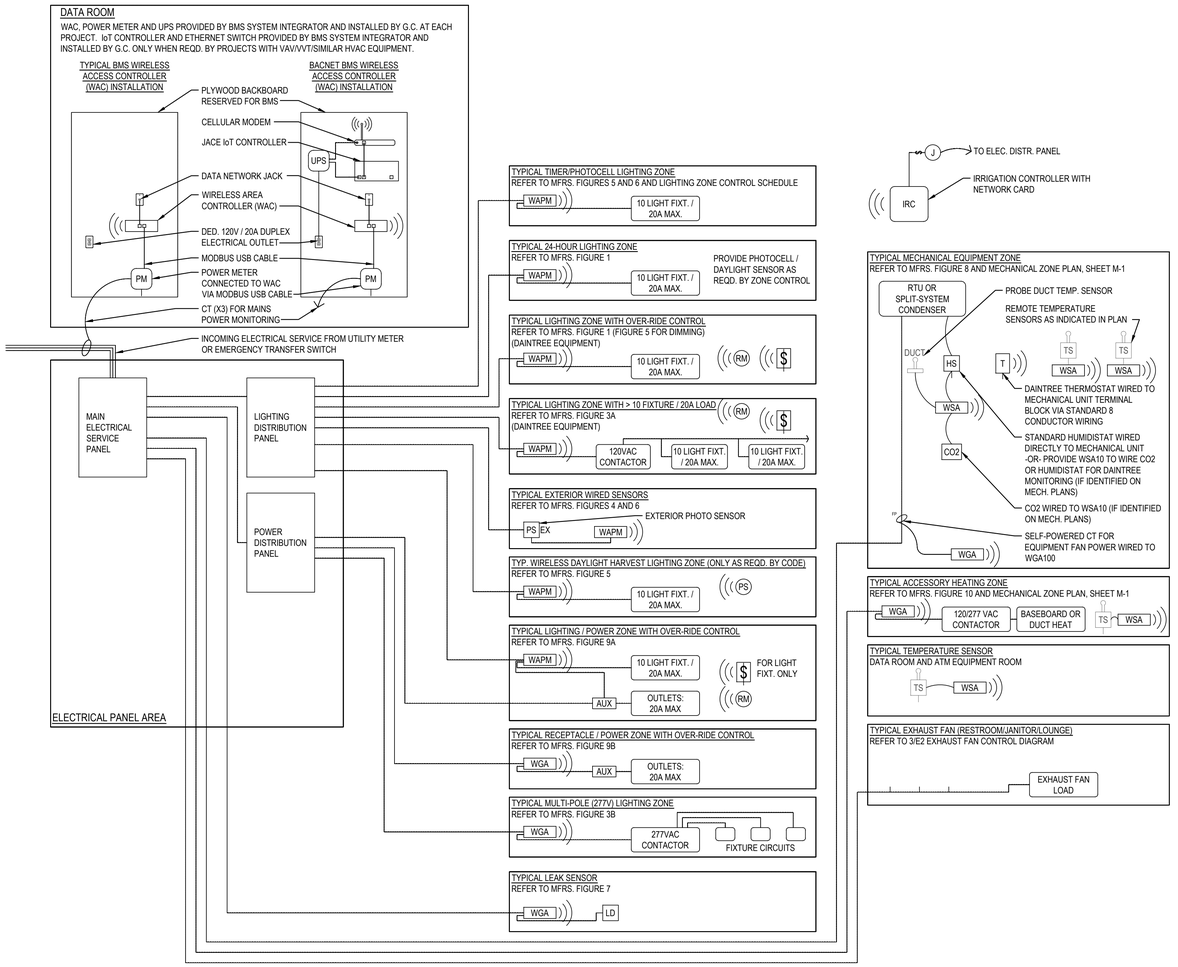
E1.2

BMS SYMBOLS

BMS AND OTHER CONTROL DEVICES TO BE ORDERED FROM THE BMS EQUIPMENT VENDOR- REFER TO SHEET E5- COORD. W/ PROJECT ELECTRICIAN

- T ZONE — BMS WIRELESS THERMOSTAT: DAINTREE NETWORKS #WTS10
- TS ZONE — BMS WIRED REMOTE TEMP. SENSOR (PREFERRED): BAPI #10K-2-R-Z-CG (WALL MOUNT)
- OTS IEEE ZONE — BMS EXTERIOR HARDIRED TEMPERATURE SENSOR: BAPI #BA/10K-2-O-BB2
- DUCT IEEE ZONE — BMS WIRED DUCT TEMP. SENSOR (PREFERRED): BAPI #10K-2-D-4-BBX OR SIMILAR
- PS ZONE — PRESSURE SENSOR- ADJUSTABLE RANGE: BAPI #BA/ZPM-LR-ST-D
- HS ZONE — BMS LOW VOLTAGE WIRED HUMIDITY SENSOR: BAPI #BA/HQX-B-C-X-XX-X (WALL MOUNT), WIRED TO WSA10 CONCEALED IN CEILING
- LD ZONE — BMS LOW VOLTAGE WIRED LEAK DETECTOR: BAPI #RBA-BA/LDT1-PS-BB, WIRED TO WGA100
- CO2 IEEE ZONE — BMS HARDWIRED CO2 SENSOR: BAPI #RBA-BA/BS4-DCD10-BNK, WIRED TO WSA10
- $ ZONE — WIRELESS WALL SWITCH: DAINTREE NETWORKS #WWD1, FUNCTIONS AS SWITCH AND/OR DIMMER, USE AS MANUAL ON/OFF, MANUAL ON / AUTO OFF
- RM ZONE — WIRELESS OCCUPANCY SENSOR, CEILING RECESSED-MOUNT: DAINTREE NETWORKS #WOS2-RM-E, PIR, 1000 SF COVERAGE
- PS ZONE — WIRELESS PHOTOSENSOR, CEILING-MOUNT: DAINTREE NETWORKS #WPS1
- AUX — DAINTREE NETWORKS #RWS-BZ-200 RELAY PACK INSTALLED IN ACCESSIBLE JUNCTION BOX ABOVE CEILNG
- WAPM — WIRELESS ADAPTER: DAINTREE NETWORKS #WA100-PM 15A LINE RELAY, 5mA DIMMING DRIVER CAPACITY (10 DRIVERS TYP.)
- WGA — WIRELESS GENERAL ADAPTER: DAINTREE NETWORKS #WGA100 GENERAL PURPOSE 15A LINE RELAY
- WSA — WIRELESS SENSOR ADAPTER: DAINTREE NETWORKS #WSA10
- LD — LEAK DETECTION SENSOR: DAINTREE #RBA-BA/LDT1-PS-BB; PROVIDE AT ROOMS WITH WATER HEATERS, SUMP/EJECTOR PITS, OR THE LIKE

- FP — CURRENT TRANSFORMER: DAINTREE #CR9580-10-M WIRED TO WGA100 SINGLE PHASE
- CELLULAR MODEM: DAINTREE #CELL-MDM-VZ-1WAC
- IRC — OWNER'S IRRIGATION SYSTEM CONTROL PANEL: WEATHERMATIC ENABLED FOR ZIGBEE WIRELESS PROTOCOL, BY OWNER'S LANDSCAPER
- EX PS — EXTERIOR OUTDOOR PHOTOCELL: DAINTREE #RPL-CES/OD-24-0-10- WIRE TO WA100-PM
- WAC — WIRELESS AREA CONTROLLER: DAINTREE #WAC60
- UPS — UNINTERRUPTABLE POWER SUPPLY: 120V, 350VA MIN., PROVIDED BY G.C.
- PM — POWER METER: 3-POLE: DAINTREE #RDN-PS3037-S-N 24-POLE: DAINTREE #RDN-PS24-D
- OS — OCCUPANCY SENSOR, CEILING-MOUNT, PASSIVE INFRARED, WITH 3-WAY MANUAL OVER-RIDE SWITCH: WATTSTOPPER #CI-355
- $ OS — WALL-MOUNT SINGLE-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH: CURRENT LIGHTING #LHRIRS1-G-WH
- $ OC2 — WALL-MOUNT DUAL-RELAY OCCUPANCY SENSOR WITH COMBINED SWITCH: CURRENT LIGHTING #LHRDCMTD2-G-WH
- $ T — WIRELESS TIMER SWITCH DAINTREE NETWORKS #WWD2-SM, FUNCTION AS 15-MINUTE EXHAUST FAN TIMER
- $ TLV — PUSH-BUTTON LOW VOLTAGE 5/10/15/30-MINUTE TIMER: WATTSTOPPER TS-400-24
- $ TLV — 120 V UNIVERSAL MANUAL LINE DIMMER: LEGRAND RH703PTUW
- EM — SHUNT RELAY FOR 0-10V AND LINE VOLTAGE FOR USE WITH WA-100PM WATTSTOPPER BZ-200 PLUG LOAD AND ETC. POER PACK: LVS RLC-RRU-X-UNV
- BZ50 — UNIVERSAL VOLTAGE NON-PLUG LOAD POWER PACK: WATTSTOPPER BZ-50
- LDCM — PHASE DIMMING CONVERTER TO 0-10V DIMMING: ECOSENSE LDCM-PL



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SEAL

JAMES A. YEARA — STATE OF WASHINGTON — 24006 — REGISTERED PROFESSIONAL ENGINEER — 06/12/26

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LIGHTING CONTROL DETAILS

SHEET NUMBER

E1.3

FIGURE 1: LIGHTING ZONE/CIRCUIT ON/OFF CONTROL

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide automatic On/Off switching of lighting fixture(s).

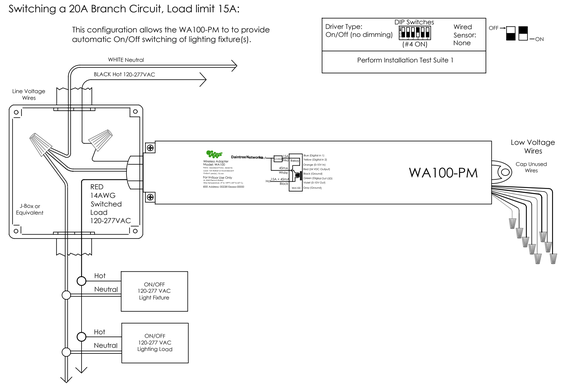


FIGURE 2: LIGHTING ZONE DIMMING WITH PHASE CONVERTOR MODULE

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off/Dimming switching of a branch circuit.

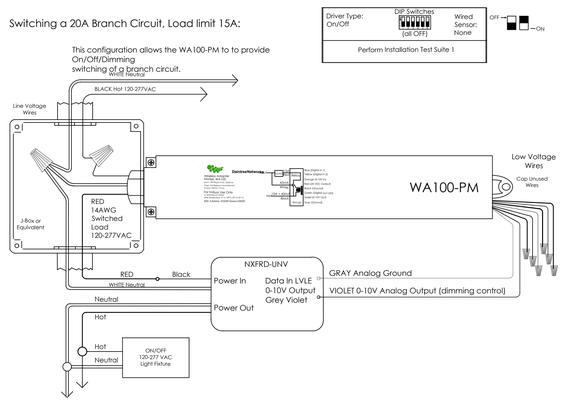


FIGURE 4: WA100-PM WITH (EXTERIOR) PHOTOCELL

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off switching of lighting load(s).

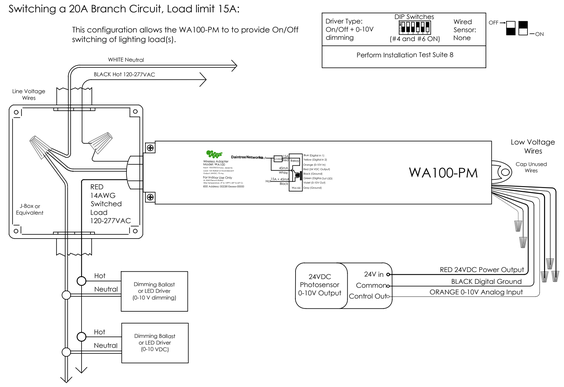


FIGURE 5: DIMMING LIGHT FIXTURE(S) CONFIGURATION

Switching a 20A Branch Circuit, Load limit 15A:

This configuration allows the WA100-PM to to provide On/Off/Dimming switching of a branch circuit.

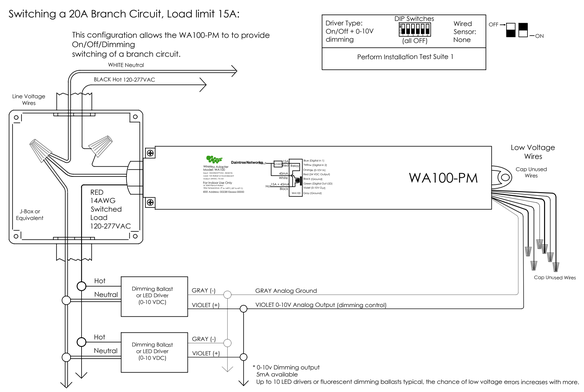


Fig. 6: Dimming Light Fixture(s), Photosensor configuration:

This configuration allows the WA100-PM to provide automatic 0-10V dimming control and to switch light fixtures On/Off.

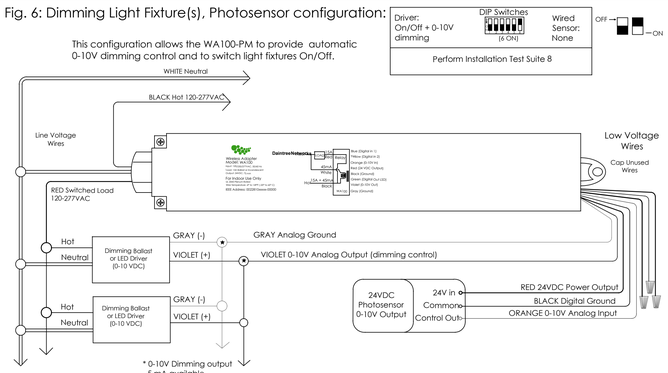


FIGURE 7: WGA100 WITH LEAK DETECTION SENSOR

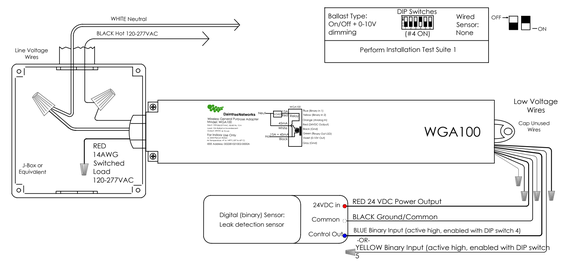


FIGURE 8A: WSA10 FOR HUMIDITY AND CO2 SENSORS

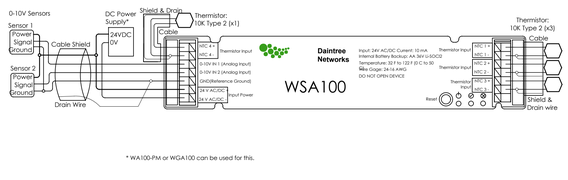


FIGURE 8B: WGA100 ANALOG INPUT CONFIGURATION WITH SELF-POWERED FAN CT

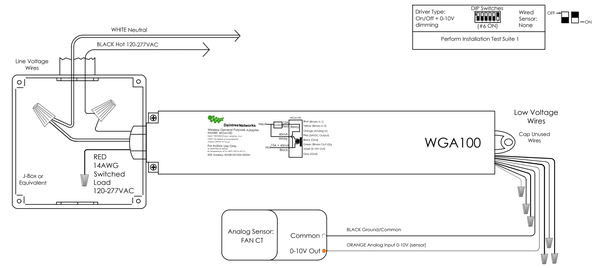


FIGURE 12: 208 V 2-POLE (PHASE-TO-PHASE) WIRING.

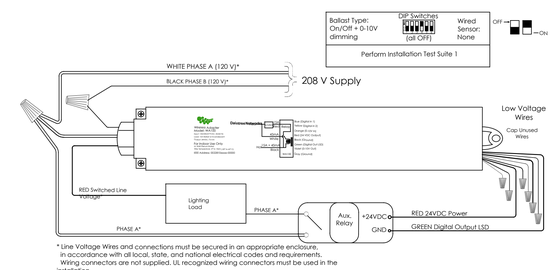


FIGURE 9A: WA200 DIMMING WITH PLUG LOAD CONTROL USING UVPPHD POWER PACK

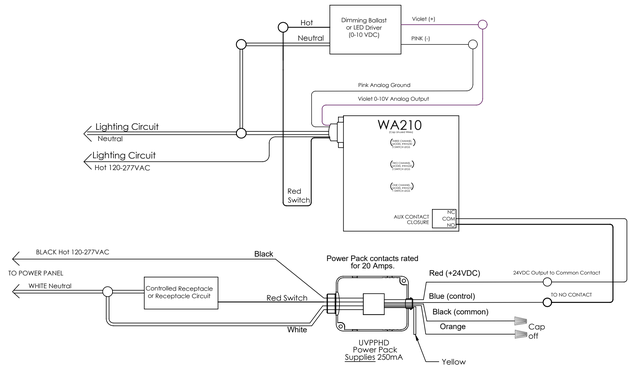


FIGURE 9A: WA200 WITH ALCR1277 EMERGENCY BYPASS

- WA200 DIMMING CONFIGURATION FOR NORMAL AND EMERGENCY LUMINARIES WITH ALCR1277
- LIGHTING ZONE CONTROL WITH EMERGENCY OVERRIDE (ALCR1277 FOR ON/OFF AND 0-10V CONTROL)

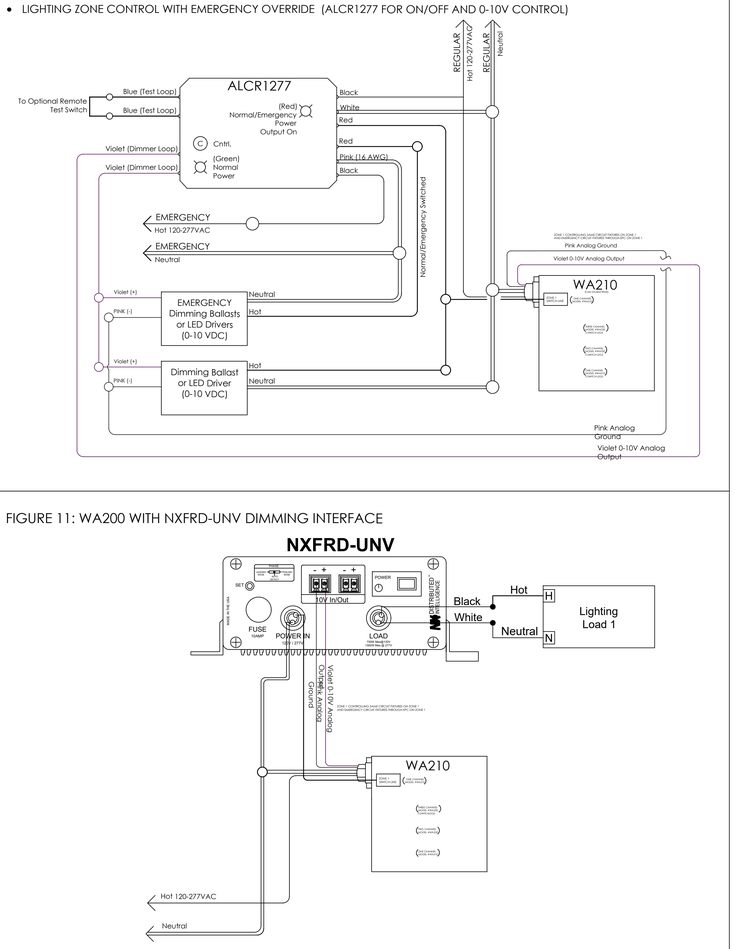


FIGURE 11: WA200 WITH NXFRD-UNV DIMMING INTERFACE

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ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

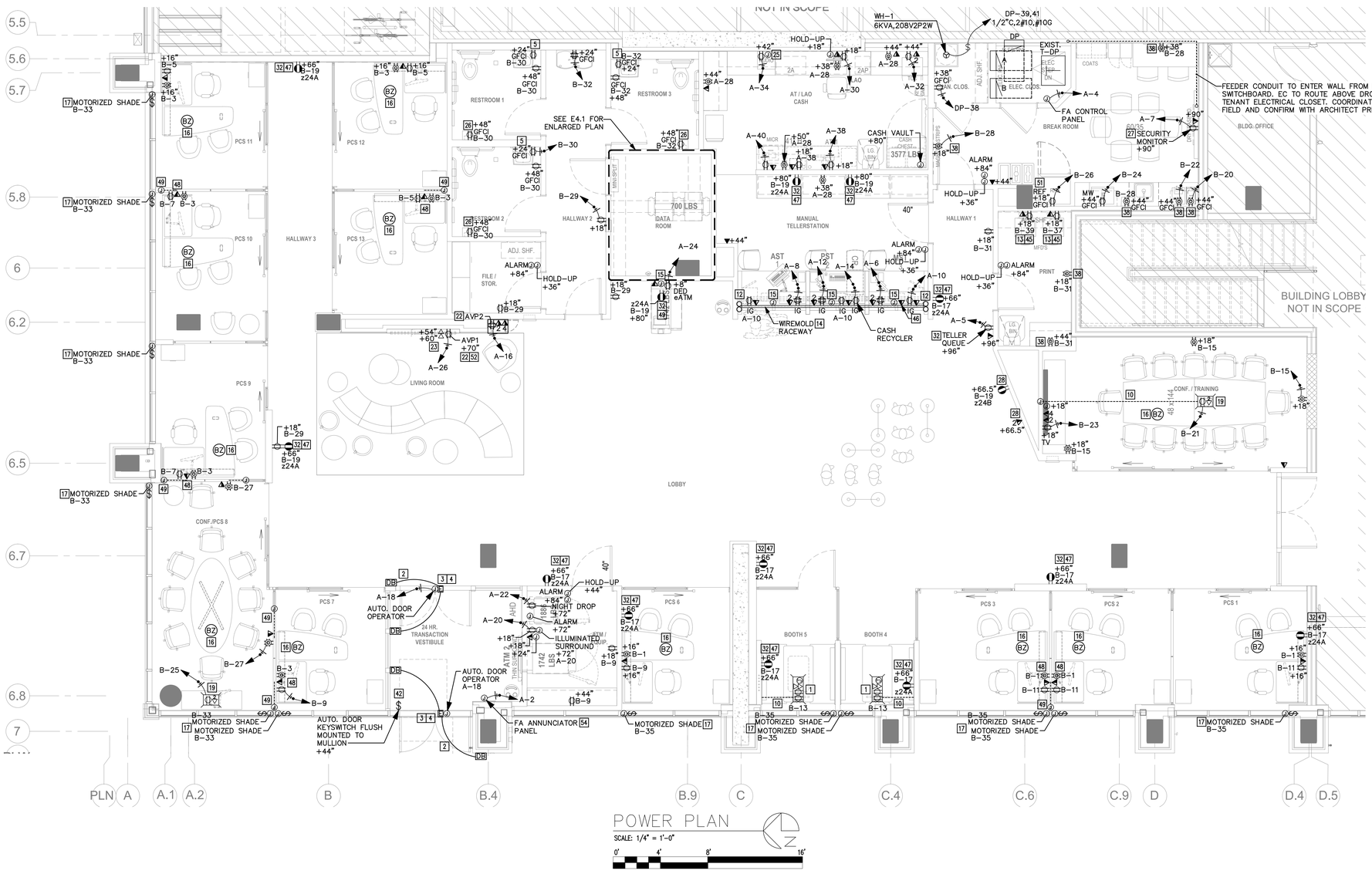
LIGHTING CONTROL DETAILS

SHEET NUMBER

E1.4

POWER PLAN KEYED NOTES (NOT ALL ARE USED)

1. PROVIDE LEGRAND 6AT SERIES IN FLOOR POKE–THRU JUNCTION BOX W/ ALUM. COVER AND INTERNAL CONFIGURATION AS REQUIRED FOR (2) 120V DUPLEX & (1)–GANG SPACE FOR DATA OUTLET. PROVIDE 3/4" CONDUIT IN–SLAB FOR POWER AND 1" CONDUIT IN–SLAB FOR DATA. CONDUITS TO BE ROUTED TO NEAREST WALL AND TERMINATE UP TO ABOVE CEILING JUNCTION BOX. DEVICE AND ROUTING LOCATIONS TO BE COORDINATE WITH PROJECT MANAGER PRIOR TO ROUGH–IN. EQUIPMENT TO BE HAVE 2–HR FIRE RATING FOR GARAGE SLAB AND 3–HR RATING FOR CEILING SLAB PENETRATIONS. REFER TO FIRESTOPPING PENETRATION DETAIL ON SHEET E2.1.
2. PROVIDE AN EMPTY 3/4" FLEXIBLE CONDUIT WILL A PULL LINE FROM CEILING CAVITY DOWN THE DOOR MULLION TO FACILITATE DOOR CONTACT INSTALLATION.
3. CONTRACTOR SHALL PROVIDE ELECTRIC STRIKE TO CONTROL THE RIGHT DOOR ONLY.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RACEWAY TO THE FRONT OUTER VESTIBULE DOOR FRAMES FOR THE PURPOSE OF RUNNING WIRES FOR THE ELECTRIC DOOR STRIKE, OVERRIDE KEY SWITCH AND ASSOCIATED EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND JUNCTION BOXES INCLUDING FLEXIBLE CONDUIT, IF REQUIRED AS WELL AS PULL WIRES AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE FLUSH TYPE DUPLEX RECEPTACLE MOUNTED VERTICALLY BELOW LAVATORY FOR AUTOMATIC SENSOR FAUCET, FIELD COORDINATE EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH–IN.
6. FOR EACH ATM PROVIDE A DUPLEX OUTLET AT +18" AFF, A DATA OUTLET MOUNTED AT +18" AFF, AND A SECURITY JUNCTION BOX MOUNTED AT +26" AFF. THE POWER, SECURITY, AND DATA OUTLETS SHALL BE ON THE SIDE OF THE ATM (FACING THE ATM FROM THE BACK). COORDINATE FINAL MOUNTING LOCATIONS WITH ARCHITECTURAL DRAWINGS AND NOTIFY AOR FOR ANY IN FIELD ISSUES PRIOR TO ROUGH–IN. THE ATM SECURITY CIRCUIT SHALL BE HARD WIRED BY THE SECURITY VENDOR. SEE AHD (IF PRESENT) AND ATM ELEVATION ON SHEET E2.1.
7. INTERNALLY ILLUMINATED CABINET: EC TO WIRE AND CONNECT LAMPS. FIELD COORDINATE EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH–IN AND ADJUST ACCORDINGLY.
8. ELECTRICAL CONTRACTOR TO PROVIDE (3) 3/4" CONDUIT FOR SEPARATE POWER/DATA/SECURITY FEEDS. RUN POWER/DATA CONDUITS/FEEDERS FROM ABOVE CEILING DOWN THRU WALL, TO ATM POWER/DATA LOCATIONS. SEE DETAILS ON SHEET E2.1. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS WITH PROJECT MANAGER/"eATM" VENDOR AND ADJUST ACCORDINGLY.
9. PROVIDE WALL MOUNTED eATM SECURITY KEYPAD. COORDINATE EXACT LOCATION WITH CHASE PM. SEE DETAIL ON SHEET E2.1.
10. RUN POWER/DATA WIRING FROM ABOVE CEILING DOWN THROUGH WALL AND TRENCH TO FLOOR BOX. VERIFY EXACT LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH–IN.
11. J–BOXES, CONDUITS, AND COVER PLATES FOR POWER AND ALARM. ALARM CONDUIT AND BOX TO REMAIN OPEN FOR WIRING BY OWNER'S ALARM CONTRACTOR. SEE AHD AND ATM ELEVATION DETAIL ON SHEET E2.1.
12. PROVIDE (2) 1–1/4"C DOWN THE WALL INTO A JUNCTION BOX UNDER TELLER COUNTER FOR VOICE/DATA/POWER. PROVIDE A 1"C DOWN THE WALL INTO A JUNCTION BOX UNDER THE TELLER COUNTER FOR SECURITY CABLING.
13. RECEPTACLES ARE EXEMPT FROM THE CIRCUIT CONTROLS FOR 120V RECEPTACLES. PRINTERS, COPIERS, IT EQUIPMENT, 24/7 FUNCTION/SECURITY, KITCHEN APPLIANCES.
14. PROVIDE WIREMOLD RACEWAY FOR TELLER LINE POWER AND DATA WIRING. EXACT LOCATION TO BE VERIFIED IN FIELD PER MILLWORK. REFER TO TELLER LINE POWER DETAILS ON SHEET E4.0.
15. SECURITY J–BOX OUTLET. VERIFY EXACT LOCATION/REQUIREMENTS WITH PM AND SECURITY VENDOR.
16. PROVIDE PLUG LOAD CONTROLLER "WAPM" AND "BZ RELAY PACK" FOR CONTROLLED DUPLEX RECEPTACLE. CONNECT TO EACH ROOM DIMMING CONTROLLER, SEE SHEET E1.4 FOR PLUG LOAD CONTROL DIAGRAM. FOR EACH ROOM, THE SINGLE "WAPM" DEVICE WILL CONTROL BOTH THE LIGHT FIXTURES AND CONTROLLED RECEPTACLES. IN EVERY OFFICE, ONLY THE +34" OR BLOCK DESIGNATED RECEPTACLES PER SHALL BE CONTROLLED; RECEPTACLES AT EACH OFFICE DESK MOUNTED AT 18" OR BASE OF EMPIRE WALL, SHALL NOT BE CONTROLLED BY THE PLUG LOAD CONTROLLER. EVERYWHERE ELSE, RECEPTACLES MUST BE EITHER SPLIT WITH (1) CONTROLLED CIRCUIT AND (1) UNCONTROLLED, OR EVENLY SEPARATE CONTROLLED AND UNCONTROLLED RECEPTACLES WITHIN SPACE. CONTROLLED RECEPTACLES/OUTLETS ARE TO BE CLEARLY MARKED PER NEC 406.3(F). REFER TO DEVICE LEGEND ON SHEET E0.0 FOR CONTROLLED RECEPTACLE BLOCK REFERENCES.
17. PROVIDE APPROPRIATE ROUGH–IN AND FINAL CONNECTION TO MOTORIZED SHADES, FIELD COORDINATE EXACT REQUIREMENTS WITH INSTALLING CONTRACTOR AND ADJUST ACCORDINGLY. CONDUIT FED DOWN FROM ACCESSIBLE CEILING TO BOX MOUNTED IN WINDOW RETURN GYP BOARD WITH A FLEXIBLE GREENFIELD CONDUIT UP TO BOX MOUNTED IN WINDOW FRAME HEADER CONSTRUCTION BELOW BEAM. REFER TO TYPICAL POWER OPERATED WINDOW SHADE ROUGH–IN DETAIL THIS SHEET FOR ADDITIONAL INFORMATION. FIELD COORDINATE OPERATED W/ PROJECT MANAGER AND ARCHITECT AND ADJUST ACCORDINGLY.
18. WALL–MOUNTED OR CEILING–MOUNTED AC UNIT: PROVIDE POWER WIRING FEED FROM ROOFTOP CONDENSING UNIT PER MFR. CUT SHEET. REFER TO MECHANICAL FOR EXACT LOCATION AND REQUIREMENTS. SEE SHEET E1.3 FOR WIRELESS CONTROLS.
19. PROVIDE LEGRAND RC4 SERIES IN FLOOR POKE–THRU JUNCTION BOX W/ ALUM. COVER AND INTERNAL CONFIGURATION AS REQUIRED FOR (1) 120V DUPLEX & (1)–GANG SPACE FOR DATA OUTLET. PROVIDE 3/4" CONDUIT IN–SLAB FOR POWER AND 1" CONDUIT IN–SLAB FOR DATA. CONDUITS TO BE ROUTED TO NEAREST WALL AND TERMINATE UP TO ABOVE CEILING JUNCTION BOX. DEVICE AND ROUTING LOCATIONS TO BE COORDINATE WITH PROJECT MANAGER PRIOR TO ROUGH–IN. EQUIPMENT TO BE HAVE 2–HR FIRE RATING FOR GARAGE SLAB AND 3–HR RATING FOR CEILING SLAB PENETRATIONS. REFER TO FIRESTOPPING PENETRATION DETAIL ON SHEET E2.1.
20. MOTORIZED SHADE CONTROL: EC TO CONNECT ALL SHADES TO A SINGLE REMOTE CONTROL HANDHELD DEVICE LOCATED IN THE BRANCH MANAGER'S OFFICE. COORDINATE EXACT LOCATION WITH PROJECT MANAGER.
21. PROVIDE WIREMOLD G4000 WITH DIVIDER FOR POWER AND COMMUNICATIONS MOUNTED ON WALL. RUN ENTIRE LENGTH OF LINE STOPPING 12" FROM EACH WALL.
22. PROVIDE THE FOLLOWING BELOW
    - 22.1. AVP2:5–20R QUAD OUTLET 20AMP 120VAC, 2–PORT DATA OUTLET WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING, AND 4–PORT DATA OUTLET WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING (EC TO LEAVE PULL STRING) TO RMER.
    - 22.2. AVP1: (1) 5–20R DUPLEX OUTLET 20AMP 120VAC DEDICATED CIRCUIT MOUNTED 12X12 FROM EDGE OF NICHE, AND (2) J–BOXES MOUNTED ON BACK WALL 16" FROM NICHE EDGE WITH 1–1/4" CONDUIT WITH PULL–STRING FROM TO MILLWORK STORAGE AREA FOR CAT6 PATCH. CABLING BY AV VENDOR.
23. COORDINATE FINAL LOCATION/REQUIREMENTS WITH CHASE PM/ARCHITECT AND TC SERIES DRAWING TC–502 FOR AV SOLUTION CONDUIT REQUIREMENTS AND SOLUTIONS.
24. PROVIDE PANIC BAR WITH ALARM VON DUPRIN 99NL–OP–ALK–AR–CON–3"–US26D WITH ALARM POWER SUPPLY VON DUPRIN PS–900 SERIES WITH INTERNAL BACKUP BATTERY. INSTALL POWER SUPPLY ABOVE FINISHED CEILING OVER DOOR. COORDINATE ALL FINAL LOCATION AND REQUIREMENTS/LENGTH WITH DOOR AND HARDWARE VENDORS.
25. 3–GANG SURFACE MOUNT SWITCH BOX FOR MEDIA VOLUME CONTROLS WITH CONDUIT CONCEALED WITHIN WALL AND TERMINATED ABOVE CEILING.
26. RECESSED DUPLEX OUTLET ARLINGTON ARL – TVBS503. PROVIDE MOUNTING ENCLOSURE SIZED TO ACCOMMODATE TOWEL DISPENSER AC ADAPTER. COORDINATE FINAL LOCATION.
27. PROVIDE A 5" SQUARE BACKBOX WITH SINGLE GANG REDUCER FOR SECURITY MONITOR CABLING. PROVIDE 1–1/4" CONDUIT FROM BOX STUBBED OUT TO ABOVE ACCESSIBLE CEILING. PROVIDE PULL–STRING IN CONDUIT. PROVIDE SINGLE GANG BRUSHED PASS–THROUGH FACEPLATE (LEVITON #41075–DBW WITH DECORA STYLE WALLPLATE). SEE TC DRAWING FOR ADDITIONAL INFORMATION.
28. LEVITON #689–W TO BE USED FOR RECESSED OUTLET AND COMMSCOPE #1077136O4 FOR DATA AT WELCOME WALL. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND TC DRAWINGS FOR ADDITIONAL INFORMATION. OUTLET TO BE OMITTED FROM DAINTREE BMS CONTROL.
29. PROVIDE DUPLEX OUTLET 20AMP DEDICATED CIRCUIT WITHIN WALL MOUNTED AV PACBOX (CHEIF TA–502 – ANIXTER #S56044), DATA OUTLET WITH 1" CONDUIT STUB UP INTO CEILING (E.C. TO LEAVE PULL STRING) TO RMER/DATA ROOM. SEE TC DRAWINGS FOR ADDITIONAL INFORMATION.
30. NOT USED.
31. INTERNALLY ILLUMINATED CABINET EC TO WIRE AND CONNECT LAMPS. FIELD COORDINATE EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH–IN AND ADJUST ACCORDINGLY.
32. LEVITON #689–W TO BE USED FOR RECESSED OUTLET. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS.
33. INTERIOR FAN COIL UNIT TO BE POWERED VIA OUTDOOR CONDENSING UNIT (CU), EC TO MAKE ALL FINAL CONNECTIONS AND REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
34. INTERIOR FAN COIL UNIT, PROVIDE POWER AS INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
35. ENERGY RECOVERY VENTILATOR, PROVIDE POWER CONNECTION AS INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
36. 3/4" CONDUIT TO CENTER DOOR HINGE FOR POWER TRANSFER HINGE CONNECTION BY DOOR HARDWARE INSTALLER. COORDINATE HEIGHT AFF W/ DOOR FRAME INSTALLER.
37. DOOR ALARM POWER SUPPLY. COORDINATE WITH DOOR AND HARDWARE VENDORS.
38. PROVIDE SPLIT–CONTROLLED RECEPTACLES WITH TOP RECEPTACLE CONTROLLED THROUGH OCCUPANCY SENSOR SERVING LIGHTING CIRCUIT IN CORRESPONDING AREA/ROOM. BOTTOM RECEPTACLE TO BE PROVIDED A CONSTANT HOT CIRCUIT. CONTROLLED PORTION OF RECEPTACLE IS TO BE CLEARLY MARKED PER NEC 406.3(F). REFER TO MANUFACTURER INSTRUCTIONS FOR INSTALLATION REQUIREMENTS.
39. PLENUM–RATED ABOVE CEILING CONNECTOR ASSEMBLY MOUNTED ABOVE ACCESSIBLE CEILING FOR EXTERIOR CAMERA. REFER TO TC DRAWINGS SHEET TC–401 FOR ADDITIONAL INFORMATION. PROVIDE A DOUBLE GANG BOX WITH 1" FLEX CONDUIT CONNECTION TO ABOVE CEILING. THE CABLING VENDOR SHALL ROUTE THE RJ–45 PIGTAIL FROM ABOVE THE INTERIOR ACCESSIBLE CEILING TO THE EXTERIOR BACK BOX FOR THE SECURITY INTEGRATOR.
40. SURGE PROTECTION DEVICE: PROVIDE LEVITON M SERIES M3120 –YB 208V/3P. REFER TO ONE–LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
41. SPLIT SYSTEM FAN COIL UNIT TO BE POWERED VIA OUTSIDE CONDENSING UNIT (CU–X). EC TO COORDINATE WITH MECHANICAL DRAWINGS TO PROVIDE THE APPROPRIATE POWER CONNECTIONS AND DISCONNECTS.
42. AUTO. DOOR KEYSWITCH FLUSH MOUNTED TO MULLION.
43. CONDENSATE PUMP RECETPACLE. EC TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EQUIPMENT LOCATION PRIOR TO ROUGH–IN.
44. POWER TRANSFER HINGE BY DOOR HARDWARE INSTALLER.
45. PRINTER RECEPTACLE AND DATA OUTLETS TO BE MOUNTED HORIZONTALLY. REFER TO ARCHITECTURAL ELEVATIONS.
46. COMBINATION DATA/ CAMERA OUTLET AND FACEPLATE BENEATH THE TELLER WORKSTATION AND CAMERA MODULE. COORDINATE DEVICE SPECIFICATIONS, LAYOUT, AND QUANTITIES WITH TC DRAWINGS PRIOR TO ROUGH–IN.
47. POWER RECEPTACLE/ J–BOX CONNECTED TO BMS ADAPTER FOR TIMED CONTROL OF MERCHANDISING/ LOGO FIXTURE. CONTROL ZONES NOTED WITH "Z24". REFER TO LIGHTING SHEET E1.0 FOR DAINTREE CONTROL SCHEDULE AND BOH SWITCH LOCATION.
48. PROVIDE POWER AND DATA OUTLETS IN CUSTOM PRE–FAB WALL. EC TO REFER TO WALL VENDOR SHOP DRAWINGS FOR DEVICE LOCATIONS AND PROVIDE CONDUIT, WIRING, RECEPTACLES, COVER PLATES, AND ANY ADDITIONAL MATERIALS AS REQUIRED.
49. PROVIDE JUNCTION BOX ABOVE CEILING AND TERMINATE CIRCUITING FOR WALL PARTITION POWER/DATA. COORDINATE POWER FEED WHIP LOCATION WITH WALL VENDOR SHOP DRAWINGS PRIOR TO ROUGH–IN. CIRCUIT DESIGNATIONS PROVIDED WITH WALL BASE RECEPTACLE. FINAL CIRCUIT CONNECTION FROM JBOX POWER WHIP TO WALL WILL BE PROVIDED BY EMPIRE CONTRACTOR.
50. PROVIDE (1) 1" CONDUIT WITH SWEEP 90 DEGREE BENDS FROM RMER TO CCTV OUTLET. IN THE EVENT THAT THE CONDUIT RUN EXCEEDS (2) 90 DEGREE BENDS, HANDHOLES (11"X18") ARE TO BE PROVIDED IN THE STRAIGHT RUN SECTION OF THE CONDUIT. REFER TO TC DRAWINGS SHEET TC401 FOR ADDITIONAL INFORMATION & TC102 FOR EXACT CAMERA HANDHOLE LOCATIONS.
51. GFCI PROTECTION TO BE PROVIDED AT THE BREAKER.
52. LEVITON #689–E TO BE USED FOR RECESSED OUTLET. CONTRACTOR TO ENSURE RECEPTACLE IS MOUNTED BEHIND LCD SCREEN AND OUT OF PUBLIC VIEW.
53. EC TO CONFIRM THE AHD EQUIPMENT POWER REQUIREMENTS PRIOR TO BID/ROUGH–IN.



POWER PLAN

SCALE: 1/4" = 1'–0"

0' 4' 8' 16'

CHASE

PREPARED FOR:

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JAMES A YAMADA — STATE OF WASHINGTON — 21902 — REGISTERED — PROFESSIONAL ENGINEER
06/12/2026

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

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DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

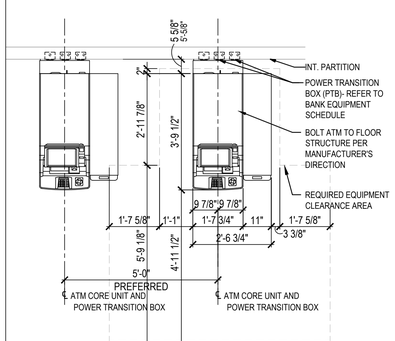
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POWER PLAN

SHEET NUMBER

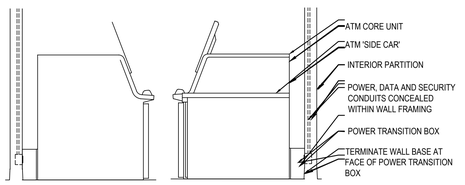
E2.0

TYPICAL POWER OPERATED WINDOW SHADE ROUGH IN DETAIL



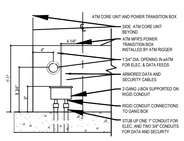
ATM v3.0 FLOOR PLAN

NOT TO SCALE



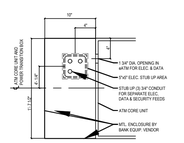
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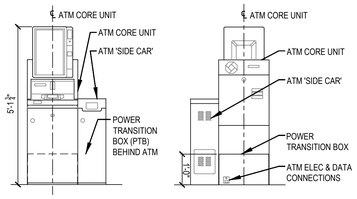
FREESTANDING eATM - ELEC./DATA/SECURITY ROUGH-INS (VERT.)

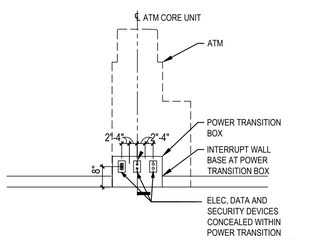
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FREESTANDING eATM - ELEC./DATA/SECURITY ROUGH-INS (HORIZ.)

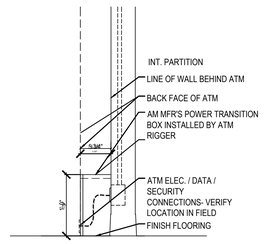
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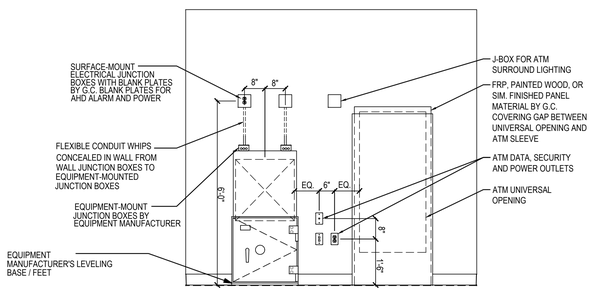
ATM v3.0 FREESTANDING. PLAN

NOT TO SCALE



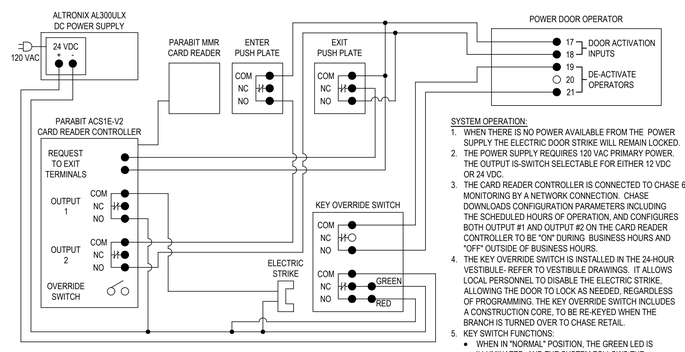
ATM v3.0 MANUF. POWER TRANSITION BOX

NOT TO SCALE



TYP AHD AND ATM ELEVATION

NOT TO SCALE



AUTOMATIC VESTIBULE DOOR CONTROL DIAGRAM

NOT TO SCALE

SYSTEM OPERATION:

1. WHEN THERE IS NO POWER AVAILABLE FROM THE POWER SUPPLY THE ELECTRIC DOOR STRIKE WILL REMAIN LOCKED.
2. THE POWER SUPPLY REQUIRES 120 VAC PRIMARY POWER. THE OUTPUT IS-SWITCH SELECTABLE FOR EITHER 12 VDC OR 24 VDC.
3. THE CARD READER CONTROLLER IS CONNECTED TO CHASE 6. MONITORING BY A NETWORK CONNECTION. CHASE DOWNLOADS CONFIGURATION PARAMETERS INCLUDING THE SCHEDULED HOURS OF OPERATION, AND CONFIGURES BOTH OUTPUT #1 AND OUTPUT #2 ON THE CARD READER CONTROLLER TO BE "ON" DURING BUSINESS HOURS AND "OFF" OUTSIDE OF BUSINESS HOURS.
4. THE KEY OVERRIDE SWITCH IS INSTALLED IN THE 24-HOUR VESTIBULE- REFER TO VESTIBULE DRAWINGS. IT ALLOWS LOCAL PERSONNEL TO DISABLE THE ELECTRIC STRIKE, ALLOWING THE DOOR TO LOCK AS NEEDED, REGARDLESS OF PROGRAMMING. THE KEY OVERRIDE SWITCH INCLUDES A CONSTRUCTION CORE, TO BE RE-KEYED WHEN THE BRANCH IS TURNED OVER TO CHASE RETAIL.
5. KEY SYSTEM FUNCTIONS:
   - WHEN IN "NORMAL" POSITION, THE GREEN LED IS ILLUMINATED, AND THE SYSTEM FOLLOWS THE PROGRAMMED OPERATION, FOLLOWING THE BUSINESS HOURS SCHEDULE.
   - WHEN IN "DISABLED" POSITION, THE RED GREEN LED IS ILLUMINATED. THE SYSTEM PROGRAM IS BYPASSED, THE ELECTRIC STRIKE LOCKS THE DOOR, AND THE AUTOMATIC DOOR OPERATOR PUSH PLATES ARE DISABLED.

"NORMAL" HARDWARE FUNCTIONS:

- DURING BUSINESS HOURS, BOTH OUTPUTS #1 AND #2 ARE ENERGIZED, ALLOWING BOTH PUSH PLATES TO ACTIVATE AUTOMATIC DOOR OPERATOR.
- OUTSIDE BUSINESS HOURS ENTRY', BOTH OUTPUTS #1 AND #2 ARE DE-ENERGIZED, DEACTIVATING THE ENTRY PUSH PLATE UNTIL ACTIVATED BY THE CARD READER, WHICH ENERGIZES OUTPUTS #1 AND #2 FOR A PROGRAMMED TIME. TEMPORARILY UNLOCKING THE DOOR FOR ENTRY PUSH PLATE ACTIVATION OF THE DOOR OPERATOR.
- OUTSIDE BUSINESS HOURS EXITING: ACTIVATING THE EXIST PUSH PLATE WILL SIGNAL THE CARD READER CONTROLLER TO ISSUE A "REQUEST TO EXIT" COMMAND, WHICH WILL UNLOCK THE ELECTRIC STRIKE AND ENERGIZE BOTH OUTPUTS #1 AND #2, ALLOWING THE EXIT PUSH PLATE TO OPERATE THE DOOR.

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
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ROY PEDRO ARCHITECT

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SEAL



ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

POWER PLAN DETAILS

SHEET NUMBER

E2.1

GENERAL NOTES

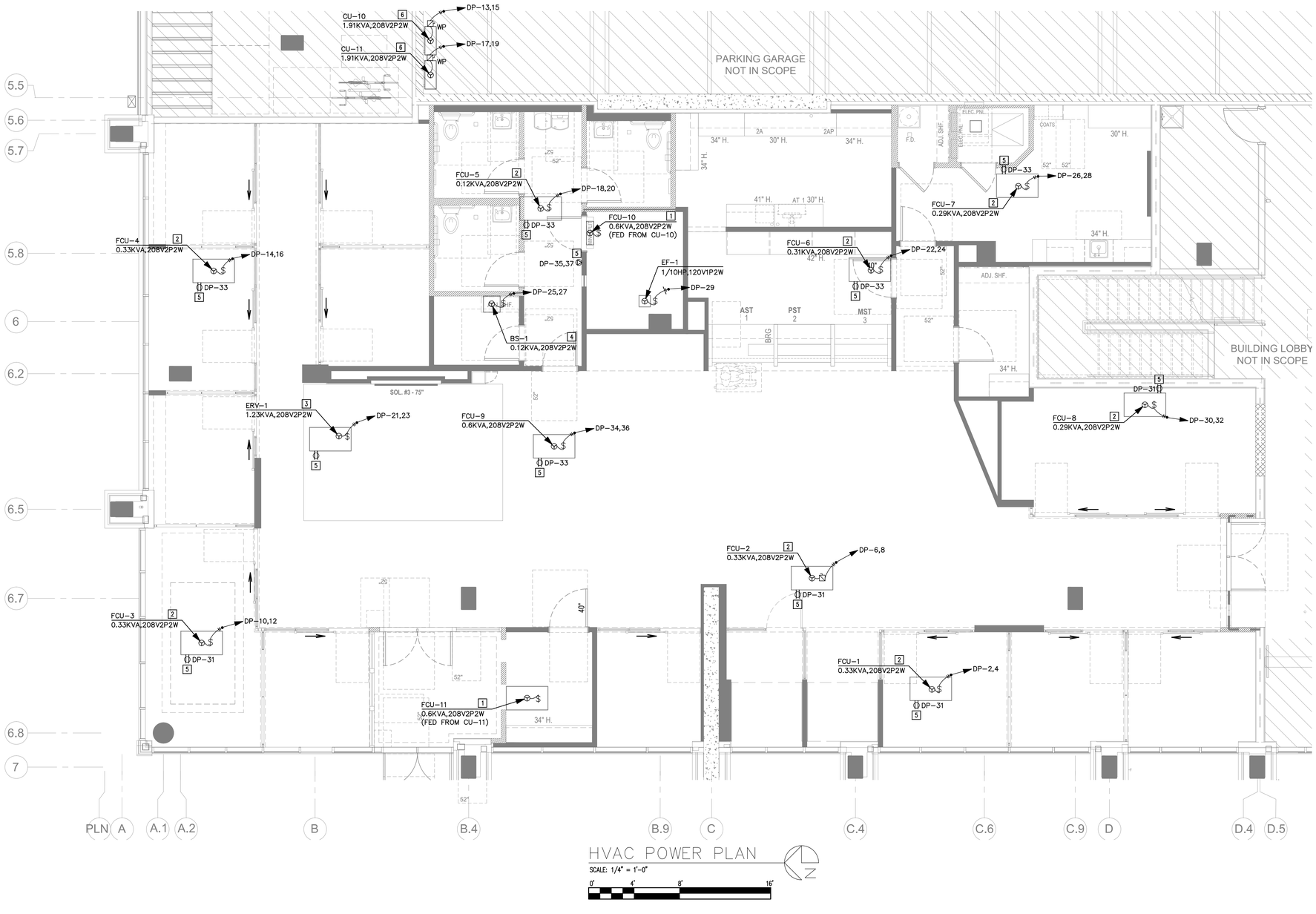
1. THERE SHOULD BE NO EXPOSED CONDUIT.
2. ALL CONDUIT TO PENETRATATION WITH APPROPRIATE PIPE SLEEVE AND BOOT ASSEMBLY.
3. ALL "NEW" PENETRATIONS SHALL BE APPROVED BY LANDLORD PRIOR TO WORK BEING DONE.
4. SERVICE RECEPTACLES SHALL BE EXTRA DUTY, WEATHER RESISTANT, GFCI, AND WEATHER PROOF.
5. G.C. SHALL COORDINATE ALL DAINTREE REQUIREMENTS WITH DAINTREE VENDOR.

#KEYED NOTES

1. SPLIT SYSTEM FAN COIL UNIT TO BE POWERED VIA OUTSIDE CONDENSING UNIT (CU). EC TO COORDINATE WITH MECHANICAL DRAWINGS TO PROVIDE THE APPROPRIATE POWER CONNECTIONS AND DISCONNECTS.
2. PROVIDE POWER FAN COIL UNIT AS INDICATED, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXACT LOCATION.
3. ENERGY RECOVERY VENTILATOR, EC TO PROVIDE POWER AS INDICATED AND REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXACT LOCATION.
4. BRANCH CONTROLLER UNIT, EC TO PROVIDE POWER AS INDICATED AND REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXACT LOCATION.
5. CONDENSATE PUMP RECEPTACLE. EC TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
6. OUTDOOR SPLIT UNIT TO BE MOUNTED HIGH ON GARAGE CEILING. COORDINATE WITH STRUCTURAL AND ARCHITECT FOR EXACT LOCATION/REQUIREMENTS.

LOCATED ON ROOF. EC TO COORDINATE WITH LANDLORD PROVIDED CONDUIT CHASE TO ROOF.

HP-1
17.71KVA,208V3P3W
WP
DP-7,9,11
1"C,3#4,#8G



HVAC POWER PLAN
SCALE: 1/4" = 1'-0"
0' 4' 8' 16'

PREPARED FOR:
CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
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SEAL

JAMES A. YBARRA
STATE OF WASHINGTON
21620
REGISTERED
PROFESSIONAL ENGINEER
06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL
DRAWING STANDARDS v20.7

SHEET TITLE
HVAC POWER PLAN

SHEET NUMBER
E2.2

DP — NEW

ROOM
MOUNTING FLUSH
FED FROM T–DP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR 400
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	30/3	SURGE PROTECTION DEVICE	0			2	15/2	FCU–1	0.166		
3	|			0		4	|			0.166	
5	|				0	6	15/2	FCU–2			0.166
7	70/3	HP–1	5.9			8	|		0.166		
9	|			5.9		10	15/2	FCU–3		0.166	
11	|				5.9	12	|				0.166
13	15/2	CU–10	0.957			14	15/2	FCU–4	0.166		
15	|			0.957		16	|			0.166	
17	15/2	CU–11			0.957	18	15/2	FCU–5			0.062
19	|		0.957			20	|		0.062		
21	15/2	ERV–1		0.615		22	15/2	FCU–6		0.156	
23	|				0.615	24	|				0.156
25	15/2	BS–1	0.062			26	15/2	FCU–7	0.146		
27	|			0.062		28	|			0.146	
29	15/1	EF–1			0.42	30	15/2	FCU–8			0.146
31	20/1	CONDENSATE PUMP RECEPT.	0.72			32	|		0.146		
33	20/1	CONDENSATE PUMP RECEPT.		0.9		34	15/2	FCU–9		0.302	
35	20/2	DATA RM FC CONDENSATE PUMP RECEPT.			0.1	36	|				0.302
37	|		0.1			38	20/1	JAN. CLOSET RECEPTACLE	0.18		
39	30/2	WH–1		3		40	–/1	SPACE		0	
41	|				3	42	–/1	SPACE			0
43	–/1	SPACE	0			44	–/1	SPACE	0		
45	–/1	SPACE		0		46	–/1	SPACE		0	
47	–/1	SPACE			0	48	–/1	SPACE			0
49	150/3	PANEL A	12.2			50	150/3	PANEL B	13		
51	|			11		52	|			11.3	
53	|				8.94	54	|				11.2
		TOTAL CONNECTED KVA BY PHASE	34.9	34.8	32.1						
		TOTAL CONNECTED AMPS BY PHASE	291	290	267						

	CONN KVA	CALC KVA	
LIGHTING	6.89	8.62	(125%)
LARGEST MOTOR	17.7	4.43	(25%)
OTHER MOTORS	9.55	9.55	(100%)
RECEPTACLES	29.3	19.7	(50%>10)
KITCHEN EQUIP	1.5	1.5	(100%)
METERBANK	0	0	(0%)

	CONN KVA	CALC KVA	
CONTINUOUS	6	7.5	(125%)
HEATING	21.5	21.5	(100%)
COOLING	21.5	0	(0%)
NONCONTINUOUS	27	27	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	102	99.8	
BALANCED 3–PHASE AMPS		277	

A — NEW

ROOM
MOUNTING FLUSH
FED FROM DP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 150
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	SECURITY MONITOR RECEPT.	0.18			2	20/1	FIRE ALARM ANNUNCIATOR PANEL	0.8		
3	20/1	SECURITY MONITOR RECEPT.		0.18		4	20/1	FIRE ALARM CONTROL PANEL		1.2	
5	20/1	DATA ROOM – 5–20R			1.6	6	20/1	FRONT COUNTER RECEPT.			0.36
7	20/1	DATA ROOM – 5–20R	1.6			8	20/1	FRONT COUNTER RECEPT.	0.36		
9	20/1	DATA RM RECEPT.		1		10	20/1	FRONT COUNTER RECEPT.		0.54	
11	20/1	DATA RM RECEPT.			1	12	20/1	FRONT COUNTER RECEPT.			0.36
13	20/1	DATA RM RECEPT.	1			14	20/1	CASH RECYCLER	0.36		
15	20/1	DATA RM RECEPT.		1		16	20/1	AV WALL CABINET		1	
17	20/1	DATA RM RECEPT.			1	18	20/1	AUTO DOOR OPERATOR			0.36
19	20/1	DATA RM RECEPT.	1			20	20/1	ATM LIGHT CABINETS, RECEPT.	0.702		
21	20/1	DATA RM RECEPT.		1		22	20/1	DED NIGHT DROP RECEPT.		0.18	
23	20/1	DATA RM. RECEPT.			0.72	24	20/1	LOBBY eATM			0.54
25	30/2	TWIST LOCK – L14–30	2.5			26	20/1	LOBBY MEDIA WALL LCD	0.3		
27	|			2.5		28	20/1	MANUAL/CASH RM CTRL RECEPT., RECEPTACLE		0.9	
29	30/2	TWIST LOCK – L14–30			2.5	30	20/1	CASH RM RECEPT.			0.5
31	|		2.5			32	20/1	CASH RM CHARGER RECEPT.	0.18		
33	–/1	SPACE		0		34	20/1	MUZAK SYS RECEPT.		0.5	
35	–/1	SPACE			0	36	–/1	CASH RM			0
37	–/1	SPACE	0			38	20/1	CASH RM RECEPT.	0.68		
39	–/1	SPACE		0		40	20/1	PRINTER RECEPT.		1	
41	–/1	SPACE			0	42	–/1	SPACE			0
		TOTAL CONNECTED KVA BY PHASE							12.2	11	8.94
		TOTAL CONNECTED AMPS BY PHASE							101	92.4	75.4

	CONN KVA	CALC KVA	
LIGHTING	0	0	(125%)
LARGEST MOTOR	0	0	(N/A)
OTHER MOTORS	0	0	(100%)
RECEPTACLES	9.9	9.9	(50%>10)
KITCHEN EQUIP	0	0	(N/A)
METERBANK	0	0	(0%)

	CONN KVA	CALC KVA	
CONTINUOUS	0	0	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	22.2	22.2	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	32.1	32.1	
BALANCED 3–PHASE AMPS		89.1	

B — NEW

ROOM
MOUNTING FLUSH
FED FROM DP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 150
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	20/1	PCS OFFICE CTRL RECEP.	0.72			2	20/1	PCS OFFICE/CONF LIGHTING	0.878		
3	20/1	PCS OFFICE CTRL RECEP.		1.08		4	20/1	PCS OFFICE/CONF LIGHTING		0.338	
5	20/1	PCS OFFICE PC RECEP.			1.8	6	20/1	BOOTH/EQUIP RM LIGHTING			0.176
7	20/1	PCS OFFICE PC RECEP.	1.2			8	20/1	VESTIBULE/LOBBY LIGHTING	0.91		
9	20/1	PCS OFFICE PC RECEP.		1.56		10	20/1	BOH RR/ DATA RM LIGHTING		0.259	
11	20/1	PCS OFFICE PC RECEP.			1.8	12	20/1	MANUAL TRAN/ LOUNGE/ PRINT LIGHTING			0.484
13	20/1	BOOTH FLR BOX RECEP.	2			14	20/1	ILLUMINATED OCT/SIGN	0.25		
15	20/1	CONF. RM RECEPT.		0.72		16	20/1	SIGNAGE		0.5	
17	20/1	MERCHANDISING POWER			1.6	18	20/1	SIGNAGE			0.5
19	20/1	MERCHANDISING POWER	1.3			20	20/1	BREAK RM. RECEP.	1.6		
21	20/1	CONF. RM FLOOR BOX		1.2		22	20/1	BREAK RM. RECEP.		1.6	
23	20/1	CONF. RM CONF. TV RECEPT.			0.5	24	20/1	BREAK RM. MICROWAVE			1
25	20/1	CONF/PCS FLR BOX RECEP.	0.6			26	20/1	REFRIGERATOR	0.5		
27	20/1	CONF/PCS CTRL RECEP.		0.36		28	20/1	LOUNGE RECEPT., RECEPTACLE		0.54	
29	20/1	HALLWAY/LOBBY RECEPT.			0.72	30	20/1	RESTROOM/BOH RECEPT.			1.08
31	20/1	HALLWAY/PRINT RM RECEPT., RECEPTACLE	0.54			32	20/1	RESTROOM/FOUNTAIN RECEPT.	0.9		
33	20/1	MOTORIZED SHADE		1.5		34	–/1	SPACE		0	
35	20/1	MOTORIZED SHADE			1.5	36	–/1	SPACE			0
37	20/1	NETWORK PRINTER	1.6			38	–/1	SPACE	0		
39	20/1	NETWORK PRINTER		1.6		40	–/1	SPACE		0	
41	–/1	SPACE			0	42	–/1	SPACE			0
		TOTAL CONNECTED KVA BY PHASE							13	11.3	11.2
		TOTAL CONNECTED AMPS BY PHASE							108	93.8	93

	CONN KVA	CALC KVA	
LIGHTING	6.89	8.62	(125%)
LARGEST MOTOR	0.25	0.063	(25%)
OTHER MOTORS	3	3	(100%)
RECEPTACLES	19.2	14.6	(50%>10)
KITCHEN EQUIP	1.5	1.5	(100%)
METERBANK	0	0	(0%)

	CONN KVA	CALC KVA	
CONTINUOUS	0	0	(125%)
HEATING	0	0	(N/A)
COOLING	0	0	(N/A)
NONCONTINUOUS	4.8	4.8	(100%)
DIVERSE	0	0	(N/A)
METERED DEMAND	0	0	(125%)
TOTAL KVA	35.4	32.6	
BALANCED 3–PHASE AMPS		90.5	

T–DP — EXISTING

ROOM
FED FROM 4MDP
NOTE

PRIMARY VOLTS 480V 3P 3W
SECONDARY VOLTS 208Y/120V 3P 4W

AIC –
KVA 150

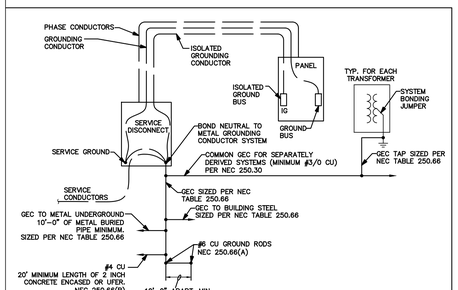
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	FEEDER RACEWAY AND CONDUCTORS
1	–/3	PANEL DP	34.9	34.8	32.1	3–1/2"C,3#500kcmil,#500kcmil N,#1/0G
		TOTAL CONNECTED KVA BY PHASE	34.9	34.8	32.1	

	CONN KVA	CALC KVA	
LIGHTING	6.89	8.62	(125%)
LARGEST MOTOR	17.7	4.43	(25%)
MOTORS	9.55	9.55	(100%)
RECEPTACLES	29.3	19.7	(50%>10)
KITCHEN EQUIPMENT	1.5	1.5	(100%)
CONTINUOUS	6	7.5	(125%)
NONCONTINUOUS	27	27	(100%)
HEATING	21.5	21.5	(100%)
COOLING	21.5	0	(0%)
TOTAL LOAD		99.8	
BALANCED 3–PHASE LOAD		277 A	

FAULT CURRENT SCHEDULE

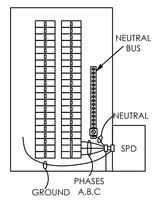
DEVICE	FAULT	AIC RATING	L–L VOLTS	L–N VOLTS	FED FROM DEVICE	FEEDER SIZE	FEEDER LENGTH
4MDP	65,143	65,000	480V	277V		(5)#600kcmil	
T–DP	14,345	–	208V	120V	4MDP	#300kcmil AL	174'
DP	13,678	22,000	208V	120V	T–DP	#500kcmil	10'
A	12,207	22,000	208V	120V	DP	#1/0	14'
B	11,973	22,000	208V	120V	DP	#1/0	16'

FAULT CURRENT AT EXISTING MAIN DISTRIBUTION PANELBOARD CALCULATED AT WORST CASE SCENARIO OF 65,000A INCLUDING MOTOR LOAD CONTRIBUTION.



NOTES:
1. COORDINATE THE CONNECTION TO METAL UNDERGROUND WATER PIPE, METAL FRAME OF BUILDING AND ALL OTHER ELECTRODES WITH OTHER TRADES TO ENSURE THE GROUNDING ELECTRODES SYSTEM IS PROPERLY GROUNDED.

GROUNDING ELECTRODE SYSTEM DETAIL (NEC 250.50) — SCALE NTS — 1



NOTES

1. CONNECT SPD TO BREAKER AS FOLLOWS:
   2P30 FOR 1 PHASE
   3P30 FOR 3 PHASE
2. RELOCATE BREAKER IN PANEL AS NECESSARY TO PROVIDE THE SHORTEST WIRE LENGTH TO SPD.
3. DIRECT CONNECTION TO BUS IS NOT PERMITTED.
4. USE A CHASE NIPPLE CONNECTION VIA KNOCKOUT.
5. USE #10 AWG OR LARGER CONDUCTORS.
6. LIMIT WIRE LENGTH TO 18" OR LESS.
7. KEEP WIRE FREE OF ANY SHARP BENDS.
8. SPD TO BE MODULAR, UL 1449 3RD EDITION LISTED,
9. 100 KA PER PHASE, 600V CLAMPING.

SURGE PROTECTING DEVICE DETAIL

GENERAL FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
1	150	1–1/2"C,3#1/0,#1/0N,#6G	A, B
2	225	2–1/2"C,3#300kcmil AL,#2 AL G	T–DP
3	400	3–1/2"C,3#500kcmil,#500kcmil N,#1/0G	DP

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

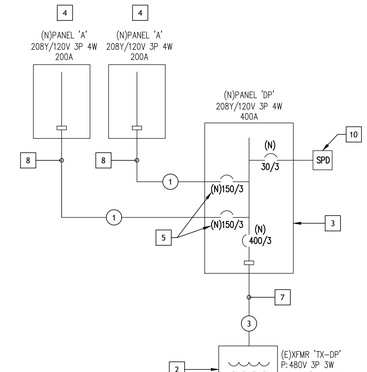
ONE–LINE DIAGRAM NOTES

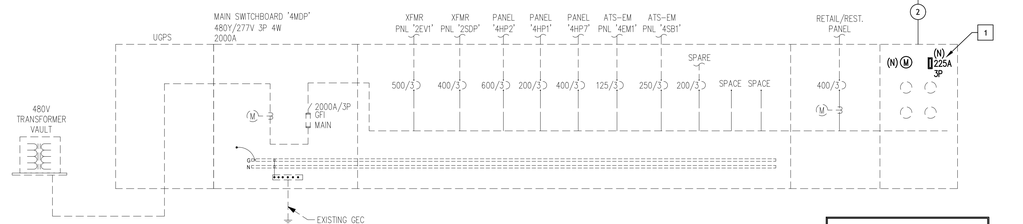
1. PROVIDE NEW 480V 225A/3P LSIG BREAKER. PROVIDE LABELING FOR SERVICE DISCONNECT PER NEC 110.22(A).
2. EXISTING 150KVA 480V:208Y/120V 3P 4W TRANSFORMER TO BE PROVIDED BY LANDLORD AND INSTALLED BY TI EC. COORDINATE LOCATION WITH CONSTRUCTION MANAGER.
3. PROVIDE NEW 42–SPACE 400A 208Y/120V 3P 4W PANEL WITH 400A/3P MAIN CIRCUIT BREAKER WITHIN 10FT FROM TRANSFORMER SECONDARY.
4. PROVIDE NEW 42–SPACE 200A 208Y/120V 3P 4W PANEL.
5. PROVIDE NEW 150A/3P 208V BREAKER.
6. PROVIDE NEW 225A FEEDER: 2–1/2"C, 3#300kcmil AL, #2 AL G.
7. PROVIDE NEW 400A FEEDER: 3–1/2"C, 3#500kcmil, #500kcmil N, #1/0 G.
8. PROVIDE NEW 150A FEEDER: 1–1/2"C, 3#1/0, #1/0 N, #6 G.
9. PROVIDE NEW GROUNDING ELECTRODE CONDUCTOR TO BUILDING SERVICE GROUNDING ELECTRODE SYSTEM. REFER TO DETAIL #1 ON SHEET.
10. PROVIDE NEW TYPE 2 SURGE PROTECTION DEVICE. LEVITON M3120–YB 208Y/120V.

CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THE DESIGN OF INTENT AS SHOWN ON THIS SET OF DRAWINGS. INFORMATION SHOWN ON THIS SET OF DRAWINGS IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. CONTACT ENGINEER IMMEDIATELY FOR ANY MAJOR DISCREPANCIES THAT MAY AFFECT BID FOR COORDINATION AND UPDATED DRAWINGS. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID NEW FEEDERS TO NEW PANELS.

NOTES:
1. CONTRACTOR SHALL PROVIDE COMPLIANCE WITH NEC 110.26 "SPACES ABOUT ELECTRICAL EQUIPMENT"
2. CONTRACTOR SHALL PROVIDE COMPLIANCE WITH NEC 408.4 "CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION"
3. PROVIDE ARC FLASH WARNING LABELS PER NEC 110.16.
4. ALL CONDUCTORS SHALL BE TYPE THHN, SOLID COPPER, UNLESS OTHERWISE NOTED.
5. ELECTRICAL CONTRACTOR SHALL ON DAY ONE OF THE PROJECT, OPEN THE EXISTING ELECTRICAL GEAR, INSPECT INTERNAL CONFIGURATION AND IMMEDIATELY NOTIFY ENGINEER IF CONDITIONS ARE NOT AS SHOWN IN THE ONE–LINE DIAGRAM OR IF THE DESIGN IS NOT CODE COMPLIANT.
6. ALL OVERCURRENT PROTECTION DEVICES WILL HAVE THE SAME FAULT CURRENT RATING AS THE RATING OF THE PANEL OR SWITCHGEAR THEY ARE LOCATED WITHIN.

ALL GROUNDING TO BE ROUTED BACK TO MAIN PANEL INCLUDING LOW VOLTAGE.





ONE–LINE DIAGRAM

NOTE: ALL ELECTRICAL DISTRIBUTION EQUIPMENT AND FEEDER ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED AS NEW (N).

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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ROY PEDRO ARCHITECT

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PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

ONE–LINE DIAGRAM AND PANEL SCHEDULES

SHEET NUMBER

E3.0

VOLTAGE DROP SCHEDULE

DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	
4MDP	0%	(5)#600kcmil	–	–	0%
T–DP	0.62%	#300kcmil AL	–	–	0.62%
DP	0.09%	#500kcmil	1.2% (CKT 31)	#12	1.29%
			DP–7,9,11: 0.48%	#4	
			DP–13,15: 0.83%	#12	
			DP–17,19: 0.78%	#12	
			DP–21,23: 0.51%	#10	
			DP–25,27: 0.06%	#12	
			DP–29: 0.48%	#12	
			DP–31: 1.2%	#12	
			DP–33: 1.04%	#12	
			DP–35,37: 0.08%	#12	
			DP–39,41: 0.23%	#10	
			DP–2,4: 0.15%	#12	
			DP–6,8: 0.15%	#12	
			DP–10,12: 0.19%	#10	
			DP–14,16: 0.13%	#10	
			DP–18,20: 0.05%	#12	
			DP–22,24: 0.06%	#12	
			DP–26,28: 0.02%	#12	
			DP–30,32: 0.09%	#12	
			DP–34,36: 0.33%	#12	
			DP–38: 0.05%	#12	
A	0.22%	#1/0	2.37% (CKT 5)	#12	2.59%
			A–1: 0.1%	#12	
			A–3: 0.1%	#12	
			A–5: 2.37%	#12	
			A–7: 2.3%	#12	
			A–9: 1.6%	#12	
			A–11: 1.6%	#12	
			A–13: 1.38%	#12	
			A–15: 1.37%	#12	
			A–17: 1.61%	#12	
			A–19: 1.64%	#12	
			A–21: 1.65%	#12	
			A–23: 1.03%	#12	
			A–25,27: 0.94%	#8	
			A–29,31: 0.92%	#8	
			A–2: 1.13%	#10	
			A–4: 0.25%	#12	
			A–6: 0.27%	#12	
			A–8: 0.33%	#12	
			A–10: 0.37%	#12	
			A–12: 0.31%	#12	
			A–14: 0.28%	#12	
			A–16: 1.56%	#12	
			A–18: 0.48%	#10	
			A–20: 0.9%	#10	
			A–22: 0.23%	#10	
			A–24: 0.61%	#12	
			A–26: 0.5%	#12	
			A–28: 0.44%	#12	
			A–30: 0.15%	#12	
			A–32: 0.03%	#12	
			A–34: 0.23%	#12	
			A–38: 0.38%	#12	
			A–40: 0.7%	#12	
B	0.24%	#1/0	2.74% (CKT 11)	#12	2.98%
			B–1: 1.15%	#12	
			B–3: 1.23%	#10	
			B–5: 2.58%	#12	
			B–7: 1.58%	#10	
			B–9: 0.98%	#10	
			B–11: 2.74%	#12	
			B–13: 1.87%	#10	
			B–15: 0.23%	#12	
			B–17: 2.35%	#12	
			B–19: 1.36%	#12	
			B–21: 1.3%	#12	
			B–23: 0.41%	#12	
			B–25: 1.04%	#10	
			B–27: 0.28%	#10	
			B–29: 0.77%	#12	
			B–31: 0.28%	#12	
			B–33: 2.11%	#10	
			B–35: 2.49%	#12	
			B–37: 0.65%	#12	
			B–39: 0.56%	#12	
			B–2: 0.94%	#12	
			B–4: 0.43%	#12	
			B–6: 0.22%	#10	
			B–8: 0.98%	#12	
			B–10: 0.26%	#12	
			B–12: 0.11%	#12	

VOLTAGE DROP SCHEDULE (CONT.)

DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	
			B–14: 0.37%	#12	
			B–16: 0.84%	#10	
			B–18: 0.84%	#10	
			B–20: 1.07%	#12	
			B–22: 1.03%	#12	
			B–24: 0.49%	#12	
			B–26: 0.19%	#12	
			B–28: 0.14%	#12	
			B–30: 1.15%	#12	
			B–32: 0.81%	#12	

NOTE:
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.

PREPARED FOR:

CHASE

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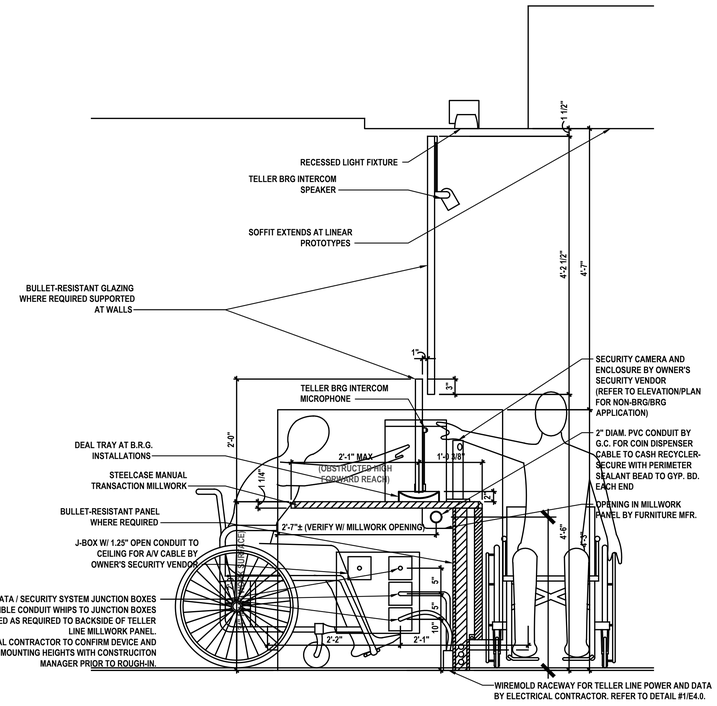
DRAWING STANDARDS v20.7

SHEET TITLE

VOLTAGE DROP CALCULATIONS

SHEET NUMBER

E3.1



TELLER SECTION AT AST AND MST | SCALE NTS | 2

PROVIDE ALUMINUM POWER/ DATA RACEWAY AT BACK FACE OF TELLER MILLWORK

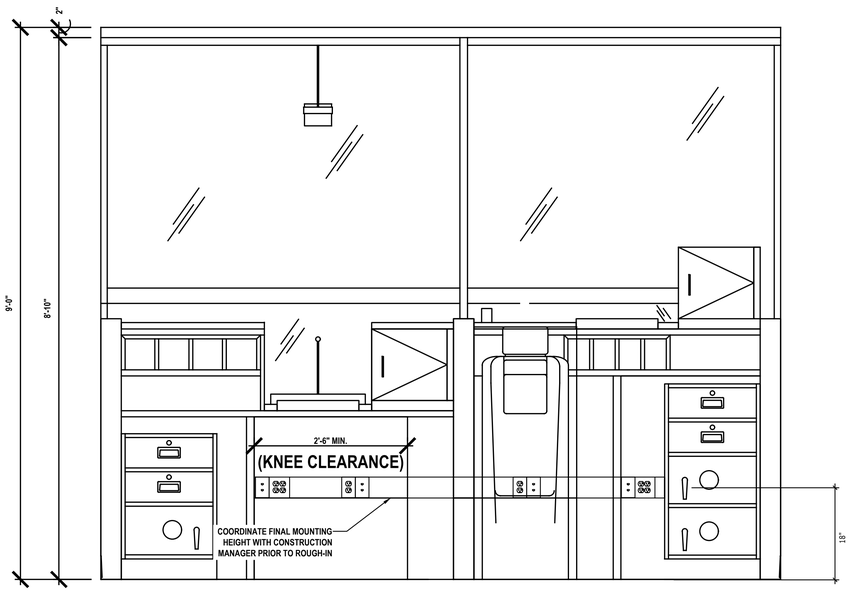
TELLER STATION : (1) QUAD RECEPTACLE
(2) DATA

CASH RECYCLER: (1) DUPLEX RECEPTACLE
(1) DATA

CAMERA MODULE: (1) DUPLEX RECEPTACLE
(1) DATA

PROVIDE RACEWAY FOR ROUTING OF SECURITY CABLE. (SECURITY VENDOR TO PULL CABLE FOR HOLDUP BUTTONS AND AND TCD PROTECTION PACKAGES.)

NOTE: DIMENSIONS ARE APPROXIMATE. ADJUST PLACEMENT OF DEVICES AFTER EQUIPMENT IS INSTALLED IF NECESSARY.



WIRE MOLD DETAIL AT TELLER LINE - FIELD VERIFY EXACT LOCATION | SCALE NTS | 1

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BRIAN FL_CHASE BANK\24-1978 CHASE HALF MOON BAY, CA\DWG\E4-0 POWER DETAILS.DWG 06-05-2025 20:14

PREPARED FOR:

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JAMES A. YBARRA
STATE OF WASHINGTON
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REGISTERED
PROFESSIONAL ENGINEER
06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

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CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

TELLER POWER DETAILS

SHEET NUMBER

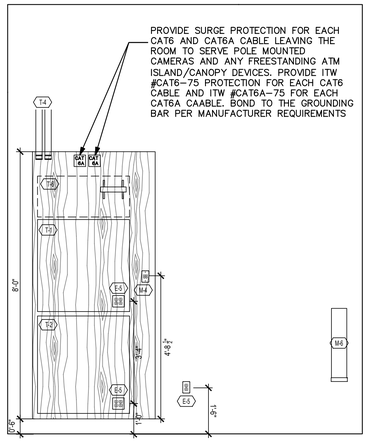
E4.0

DATA ROOM DIAGRAM KEY

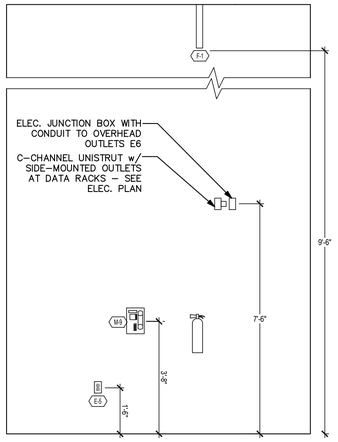
E-1	ELEC PANEL: MAIN (NOT IN DATA ROOM)
E-2	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)
E-3	ELEC. PANEL: DISTRIBUTION (NOT IN DATA ROOM)
E-4	SURGE PROTECTION DEVICE (NOT IN DATA ROOM)
E-5	120V/20A ELEC. OUTLET- DUPLEX OR QUADRUPLEX AS SHOWN- RECESSED OR SURF. MTD.
E-6	(2) DEDICATED 208V/30A ELEC OUTLETS - TWIST-LOCK, NEMA L14-30
E-7	(2) DEDICATED 120V/20A ELEC OUTLETS - TWIST-LOCK, NEMA 5-20R
E-8	2" CONDUIT TO EXTERIOR ATM LOCATION. PROVIDE 2" 3-CELL MAXWELL INNERDUCT AND SWEEPING 90 DEGREE.
E-9	MANUAL TOGGLE LIGHT SWITCH
T-1	TELECOM CARRIER #1: 36"W X 36"H
T-2	TELECOM CARRIER #2: 36"W X 36"H
T-3	1" CONDUIT TO ROOF LOCATION FOR FUTURE ANTENNA CABLING
T-4	(2) 2" CONDUITS FOR TELECOM SERVICE W/ 3-CELL MAXCELL INNERDUCT- COORD. LOCN. W/ UTILITY
T-5	1" CONDUIT TO CCTV AND LIGHTING POLE.
T-6	CELLULAR TELECOM CARRIER: 36"W X 16"H
D-1	DATA RACK / CABLE TRAY COMPONENTS
D-2	(2) 4" DATA CABLE SLEEVES FURNISHED AND INSTALLED BY TELECOM CONTRACTOR (2 LOCATIONS)
S-1	SECURITY EQUIPMENT: 48"W x 66"H
S-2	2" FIRE-RATED SECURITY CABLE SLEEVE FURNISHED AND INSTALLED BY TELECOM CONTRACTOR
S-3	4" FIRE RATED SECURITY CABLE SLEEVE FURNISHED AND INSTALLED BY TELECOM CONTRACTOR
S-4	APPROXIMATE LOCATION OF 1" CONDUIT FOR ALARM CABLING TO DRIVE UP ATM.
M-1	FAN COIL UNIT WITH REMOTE CONDENSATE PUMP IN ADJACENT ROOM - PROVIDE DEDICATED SYSTEM THAT MEETS ROOM TEMPERATURE AND HUMIDITY REQUIREMENTS IN JPMC RETAIL STRUCTURED CABLING STANDARDS, APPENDIX B
M-2	SECURITY MOTION SENSOR
M-4	SURFACE-MOUNT DATA NETWORK JACK
M-5	WALL BRACKET FOR REMOTE THERMOSTAT
M-6	DRAWING STORAGE TUBE
M-7	STRUCTURED CABLING FLOOR PLAN: 48"W X 36"H
M-8	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" AFF
M-9	TELEPHONE
B-1	BMS/BAS EQUIPMENT: 16"W X 66"H

F-1	PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVES (STI EZ-PATH PART #EZD44S2) WITH WATERFALL ADAPTER (STI PART #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. USE MUTLI-GANG PLATE (STI PART #EZP544W). REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "DATA ONLY".
F-2	PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART #EZDP44S2) FOR SECURITY ALARM AND CARD ACCESS CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "SECURITY ONLY"
F-3	PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART #EZD22) FOR BUILDING AUTOMATION SYSTEM (BAS) CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR LABELING INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "BAS/BMS ONLY".

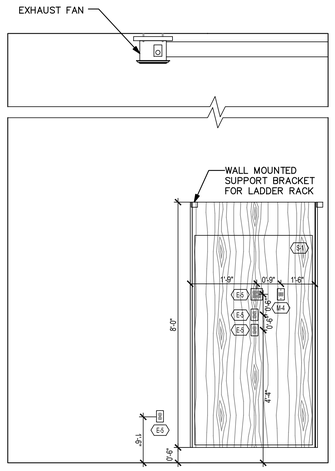
REFER TO PROJECT SPECIFIC TC DRAWINGS WHICH INCLUDE DATA ROOM ELEVATIONS. ELEVATIONS SHOWN ON THIS SHEET ARE SHOWN FOR REFERENCE ONLY.



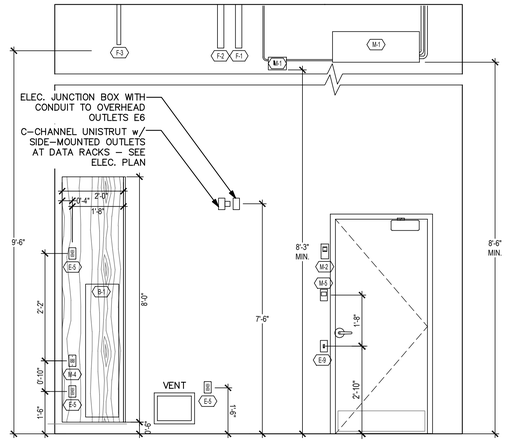
ELEVATION- A



ELEVATION- B



ELEVATION- C



ELEVATION- D

DATA ROOM ELEVATIONS | SCALE 1/2" = 1'-0" | 2

FIRE RATED WALL NOTES:

1. BOXES/RECEPTACLES/EQUIPMENT: ELECTRICAL CONTRACTOR TO PROVIDE FIRE STOPPING PUTTY PAD OR OTHER APPROVED MEANS ON ALL ELECTRICAL DEVICES TO MAINTAIN FIRE RATING OF WALLS.
2. CONDUITS: ELECTRICAL CONTRACTOR TO PROVIDE FIRE STOPPINGN PUTTY FOR ALL CONDUITS, RACEWAYS, AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS. SEE SHEET E4.2 FOR MORE INFO.

NOTES:

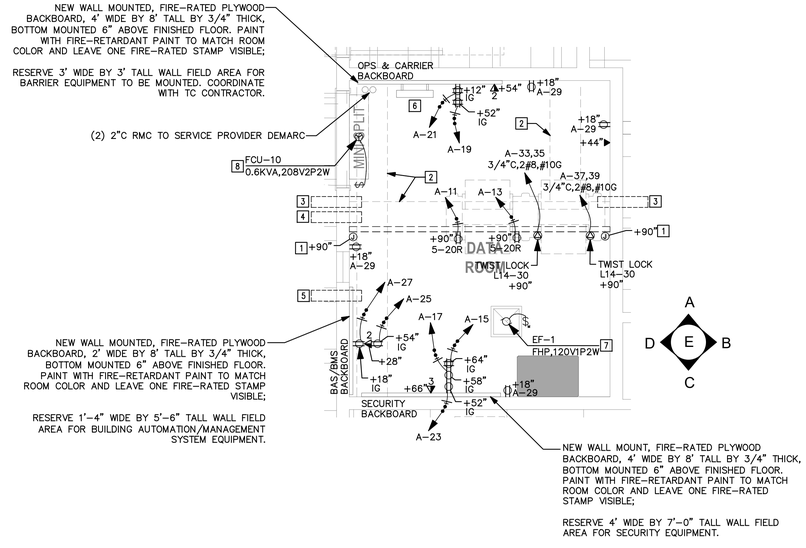
1. ALL CARRIER AND SECURITY CABLING MUST BE AFFIXED TO WALL AND/OR CONVEYANCE WITH HANGERS, VELCRO, AND TIES ; NO HANGING CABLES.
2. REFER TO JPMC RETAIL STRUCTURED CABLING STANDARD FOR ADDITIONAL INFO. CONTACT MARTIN MCMURRAY AT CHASE GTI 614-2175572: MARTIN.MCMURRAY@JPMCHASE.COM
3. TELECOM SERVICE FLOOR AND CEILING OPTIONS TO BE COORDINATED WITH P.M. AND UTILITIES.
4. ALL OUTLETS SHALL BE IN STANDARD CONCEALED J-BOXES WITH MUD RINGS AND FLUSH COVER PLATES - NO SURFACE MOUNTED BOXES AND CONDUITS.

KEYNOTES:

1. EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30 OUTLET AT RACK #1 AND TWO NEMA 5-20 OUTLETS AT RACK #2 MOUNTED AT 7'-6" AFF. EACH OUTLET SHALL BE ON A DEDICATED CIRCUIT. EC TO MOUNT THIS INDEPENDENTLY FROM THE LADDER RACK AND THE EQUIPMENT RACKS. REFER TO TC-403 FOR REQUIRED EQUIPMENT POWER CONNECTIONS SCHEMATIC AND PDU MOUNTING DETAIL. RECEPTACLES ARE TO FACE THE WALL AWAY FROM THE RACKS.
2. CABLE TRAY: 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
3. DATA FIRE-RATED SLEEVES: PROVIDE TWO 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART #EZD44S2) WITH WATERFALL ADAPTER (STI PART #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. USE MUTLI-GANG PLATE (STI PART #EZP544W). REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "DATA ONLY".
4. SECURITY FIRE-RATED SLEEVE: PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART #EZDP44S2) FOR SECURITY ALARM AND CARD ACCESS CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "SECURITY ONLY".
5. BMS FIRE-RATED SLEEVE: PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART #EZD22) FOR BUILDING AUTOMATION SYSTEM (BAS) CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR LABELING INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "BAS/BMS ONLY".
6. TELECOMMUNICATIONS GROUND BUSBAR: PROVIDE 12"x4" COPPER GROUNDING BUS BAR AS SPECIFIED IN TC DRAWINGS. MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK. REFER TO GROUNDING DETAIL ON TC-403 FOR ADDITIONAL INFORMATION.
7. COORDINATE EXACT LOCATION OF EXHAUST FAN WITH MECHANICAL DRAWINGS.
8. SPLIT SYSTEM FAN COIL UNIT TO BE POWERED VIA OUTSIDE CONDENSING UNIT (CU-X). EC TO COORDINATE WITH MECHANICAL DRAWINGS TO PROVIDE THE APPROPRIATE POWER CONNECTIONS AND DISCONNECTS. REFER TO SHEET E2.0 POWER PLAN FOR CIRCUITING.

ALL NEW CONDUITS FOR TELECOMMUNICATIONS CARRIER CABLING SHALL BE RIGID METALLIC CONDUIT WHERE RUN ABOVE GROUND. EACH CONDUIT SHALL HAVE A 3-CELL MAXCELL INNERDUCT INSTALLED AND LABELED WITH THE SOURCE AND DESTINATION. VERIFY WITH CONSTRUCTION MANAGER AND TC DRAWINGS.

CONTRACTOR TO REFER TO SECURITY TC DRAWINGS FOR FINAL LOCATIONS OF ALL EQUIPMENT SHOWN WITHIN THIS DATA ROOM.



DATA ROOM FLOOR PLAN | SCALE 3/4" = 1'-0" | 1

PREPARED FOR:

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SEAL

JAMES A. YSAAR — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

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CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

ENLARGED DATA ROOM & ELEVATIONS

SHEET NUMBER

E4.1

SECURITY CAMERA SCHEDULE

SYMBOL	TYPE	MAKE/MODEL	USES	LOCATION	MOUNTING	CAPTURES / OTHER NOTES
TEL	TELLER LINE CAM CONTROL	AXIS #F54	TELLER MAIN UNIT	TELLER COUNTER	UNERMOUNT	NA
ATM	ATM CAM CONTROL	AXIS #F41	ATM MAIN UNIT	ATM	INTEGRATED	INTEGRATED BY ATM VENDOR AT EACH ATM
TEL	INTEGRATED LENS - TELLER LINE	AXIS #FA1105 + PARABIT MOUNT	TELLER TRANSACTION (2)	TELLER LINE	HIGH TELLER COUNTER	CUSTOMER TELLER TRANSACTIONS
ATM	INTEGRATED LENS - TTW ATM	AXIS #F1004	ATM TRANSACTION	THROUGH-WALL ATM	INTEGRATED	INTEGRATED BY ATM VENDOR AT EACH ATM
ATM FS	INTEGRATED LENS - FREESTANDING ATM	AXIS #P1265	ATM TRANSACTION	FREESTANDING ATM	INTEGRATED	INTEGRATED BY ATM VENDOR AT EACH ATM
MUL	INTEGRATED LENS - MULLION	AXIS #P1265	CUSTOMER EXIT 1	VESTIBULE	60" AFF	CUSTOMER EXIT
102"	CEILING / WALL "EYEBALL" CAM	AXIS #FA3105	TELLER OVERVIEW	TELLER LINE	108" AFF	CEILING-MOUNT PREFERRED AT 108" MAX. ONE REQUIRED PER THREE TELLER STATIONS.
			QUEUE OVERVIEW	LOBBY	108" AFF	CEILING-MOUNT PREFERRED AT 108" MAX.
	CEILING DOME 360 CAM	AXIS #M3057-PLVE	LOBBY OVERVIEW 360	LOBBY	CEILING	GENERAL LOBBY TRAFFIC
102"	CEILING / WALL DOME CAM	AXIS #M3066-V	DATA ROOM EXIT	LOUNGE	CEILING PREF.	CEILING-MOUNT PREFERRED (108" MAX.), OR WALL-MOUNT AT 102" TO CAPTURE DATA ROOM DOOR EXIT.
			DATA ROOM ENTRY	DATA ROOM	102" AFF	DATA ROOM DOOR ENTRY
			CASH CHEST	CASH ROOM	102" AFF	MAIN CASH CHEST DOOR
			ATM VESTIBULE	ATM VESTIBULE	CEILING PREF.	CEILING MOUNT PREFERRED (108" MAX.), OR WALL-MOUNT AT 102" TO CAPTURE ATM, AHD AND ENTRANCE.
			LOBBY REAR EXIT	LOBBY	102" AFF	END-ENTRY PROTOTYPE PLANS ONLY. CAPTURES TRAFFIC LEAVING LOBBY TOWARD REAR OF BRANCH.
			ATM SAFE OVERVIEW (1+)	ATM EQUIPMENT ROOM / AREA	102" AFF	BACKS OF AHD, ATM, AND FACE OF DAY SAFE
102" LV LV	CEILING / WALL DOME CAM - LOW RES	AXIS #3245-LV	LOBBY OVERVIEW 1	LOBBY / VESTIBULE WALL	102" AFF	CUSTOMER PATH FROM TELLER, THROUGH LOBBY, TO EXIT
			LOBBY OVERVIEW 2	LOBBY / VESTIBULE WALL	102" AFF	GENERAL LOBBY ACTIVITY
			BACK DOOR ENTRY	HALLWAY	CEILING PREF.	CEILING MOUNT PREFERRED (108" MAX.), OR WALL-MOUNT AT 102" TO CAPTURE LOUNGE AND EXTERIOR DOOR.
			LAO OVERVIEWS (1-2)	LAO DESK AREA	CEILING PREF.	CEILING MOUNT PREFERRED (108" MAX.), OR WALL-MOUNT AT 102" TO CAPTURE EACH SIDE OF LAO DESK.
84"	WALL DOME 180 CAM	AXIS #3807-PVE	EXTERIOR PERIMETER	EXTERIOR WALL	84" MIN. ABOVE GRADE	PERSONS APPROACHING BUILDING
102"	WALL BOX / BULLET CAM	AXIS #P1435-LE	CUSTOMER ENTRY 1	LOBBY WALL OPPOSITE ENTRANCE	125" AFF	CUSTOMER ENTRY TO LOBBY
M 84"	VIDEO MONITOR- BOH	SAMSUNG #F27T450FQN	MONITOR	LOUNGE	VESA-MOUNT 84"AFF	REQUIRES 120V DUPLEX POWER OUTLET AND OPEN 1" CONDUIT TO CEILING.
M 84"	VIDEO MONITOR- QUEUE	SAMSUNG #F27T450FQN	MONITOR	LOBBY AT TELLER LINE	VESA-MOUNT 84"AFF	REQUIRES 120V DUPLEX POWER OUTLET AND OPEN 1" CONDUIT TO CEILING.
NVR	VIDEO RECORDER	MARCH 8532 R	---	---	RACK-MOUNT	REQUIRES 2U RACK SPACE, ONE CAT 6A NETWORK CONNECTION AND ONE 110V POER OUTLET.

NOTE:

1. CONTRACTOR SHALL COORDINATE WITH CHASE SECURITY VENDOR AND TC SERIES DRAWINGS FOR ALL FINAL LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. MOUNT EXTERIOR CAMERAS TO AVOID BLOCKAGE BY THE AWNING. ALL 180 DEGREE CAMERAS TO BE SURFACE MOUNTED WITH RAIN HOOD.
3. EXTERIOR CAMERA WIRING SHALL BE RUN THROUGH A CONDUIT SYSTEM (IMC OR EMT) FROM THE BUILDING INTERIOR TO THE CAMERA LOCATION. CONDUIT SHALL BE CONCEALED FROM VIEW. EXTERIOR SURFACE-MOUNT CONDUIT IS GENERALLY NOT PERMITTED, AND ITS USE MUST BE APPROVED AS AN EXCEPTION BY THE OWNER.
4. COORDINATE EXTERNAL CONDUIT PENETRATIONS WITH ARCHITECTURAL ELEVATIONS. ENSURE THAT CAMERA LENS CLEARS THE SOFFIT FOR AN UNOBSTRUCTED VIEW.

Security Camera Device Legend



AXIS FA54 MAIN UNIT
- Mounts Under Teller Counter
- Requires (1) CAT 6A Cable / (1) IP
- Require 120 VAC Outlet
- Can Use Up To 4 Channels On NVR



COUNTERTOP MOUNTED HOUSING
- Built-in AXIS FA1105 Sensor
- Connects To FA54 MAIN UNIT Only
- Can be used with BRG or Non-BRG



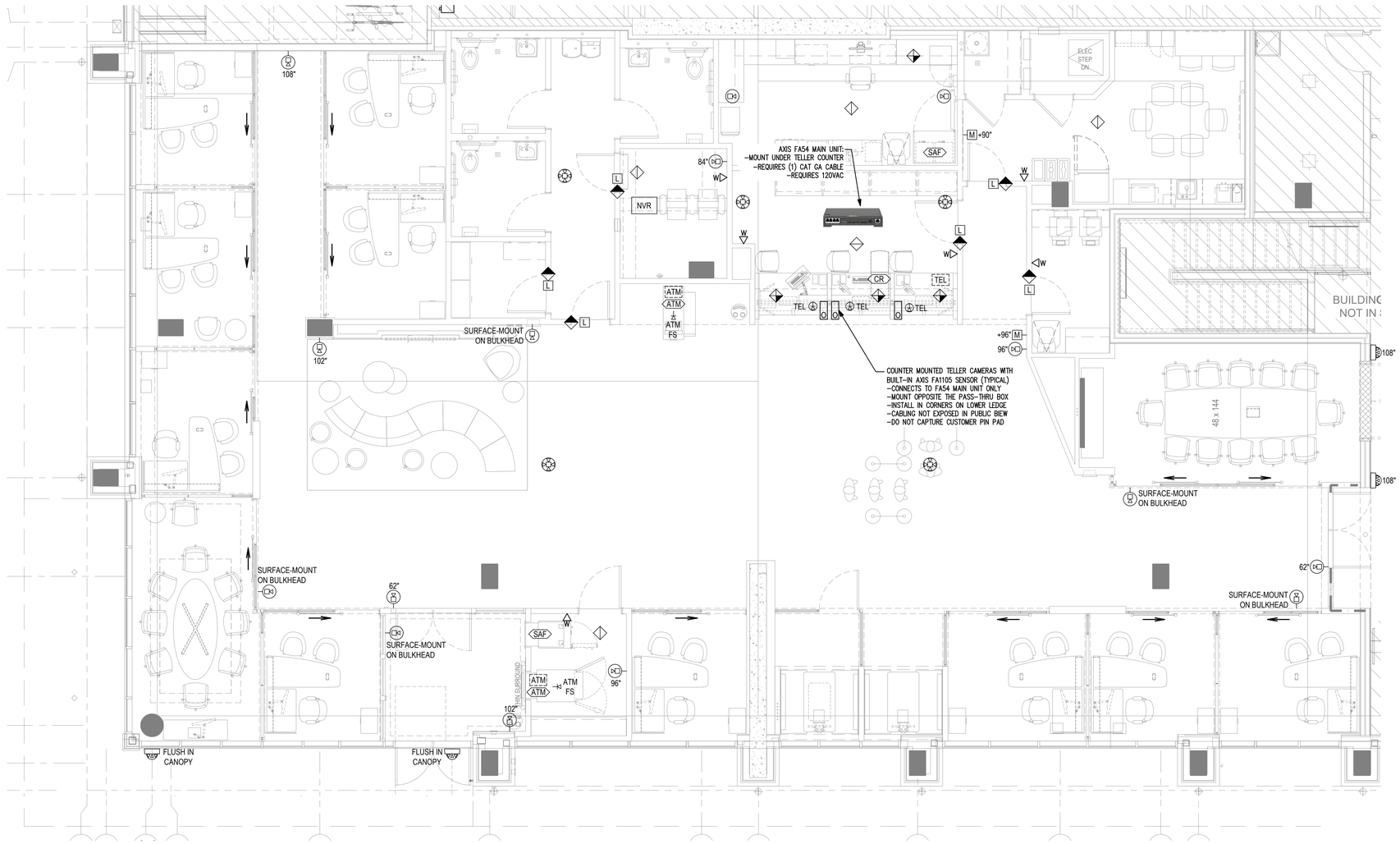
AXIS FA3105-L EYEBALL SENSOR
- Requires AXIS F7315 Cable (49 ft)
- Connects to FA54 Main Unit Only
- Wall Mount



AXIS FA3105-L EYEBALL SENSOR
- Requires AXIS F7315 Cable (49 ft)
- Connects to FA54 Main Unit Only
- Ceiling Mount

SECURITY SYMBOLS

- KP — ALARM KEYPAD
- DOOR CONTACT
- 360 DEG. CEILING-MOUNT MOTION DETECTOR
- C — CEILING-MOUNT 'CURTAIN' MOTION DETECTOR
- WALL-MOUNT MOTION DETECTOR AT 84" AFF
- SAF — SAFE ALARM PACKAGE
- ATM — ATM ALARM PACKAGE
- CR — CASH RECYCLER ALARM PACKAGE
- HOLD-UP BUTTON- SET WALL-MOUNTED UNITS 36-44" AFF
- WIRELESS HOLD-UP BUTTON: ONLY AT OVAL BCM DESKS
- L — ALARM LAMP AT 84" AFF
- WR — WIRELESS RECIEVER CONCEALED ABOVE CEILING
- TEL — TELLER LINE CAM CONTROL MOUNTED UNDER COUNTER BY CAM TECH, 1 AT EACH TELLER LINE
- ATM — INTEGRATED ATM CAM CONTROL INTEGRATED BY ATM VENDOR
- TEL — INTEGRATED LENS- TELLER LINE
- ATM — INTEGRATED LENS- ATM INTEGRATED BY ATM VENDOR
- ATM FS — INTEGRATED LENS- FREESTANDING ATM INTEGRATED BY ATM VENDOR
- MUL — INTEGRATED LENS- MULLION
- 102" — CEILING/WALL "EYEBALL" CAM
- CEILING DOME 360 CAM
- 102" — CEILING/WALL DOME CAM
- 102" LV LV — CEILING/WALL DOME CAM- LOW RES
- 102" — WALL DOME 180 CAM, 8'-6" ABOVE GRADE U.N.O.
- 102" — WALL BOX/BULLET CAM
- M 84" — VIDEO MONITOR- REQUIRES 120V/15A POWER AND JUNCTION BOX WITH OPEN 1.25" CONDUIT TO CEILING
- NVR — VIDEO RECORDER
- W/C — MINI DOME CAMERA WALL OR CEILING MOUNT



PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
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ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

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DRAWN BY:	RR
CHECKED BY:	JY

MODEL

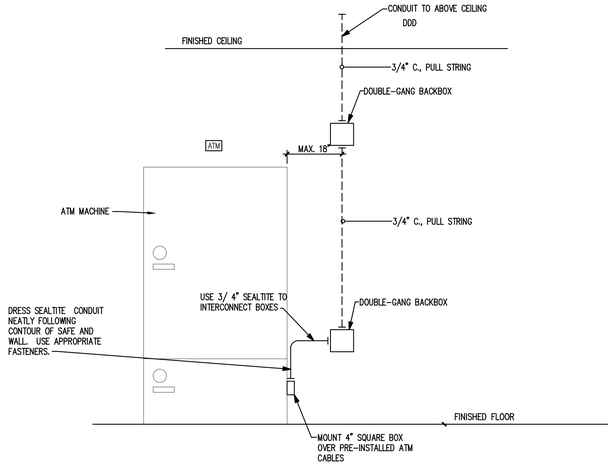
DRAWING STANDARDS v20.7

SHEET TITLE

SECURITY PLAN

SHEET NUMBER

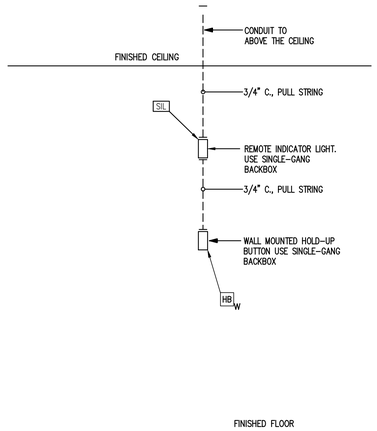
E5.0



TYPICLAL ALARM CONDUIT TO ATM MACHINE

SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR



WALL MOUNTED HOLD UP INDICATOR LIGHT

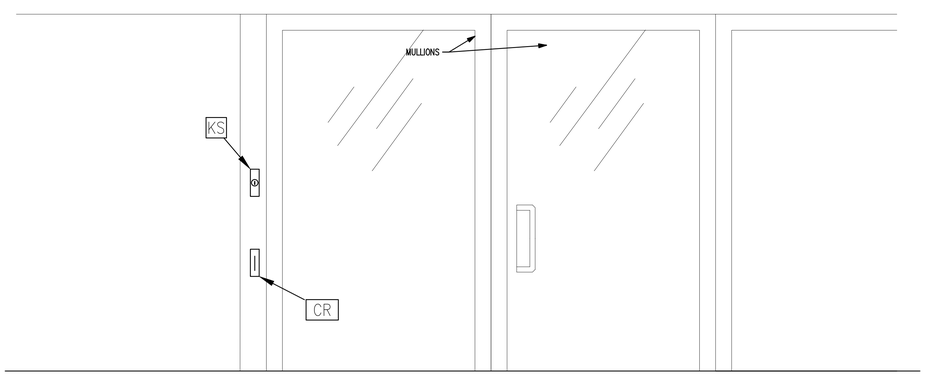
SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR

SECURITY RESPONSIBILITIES

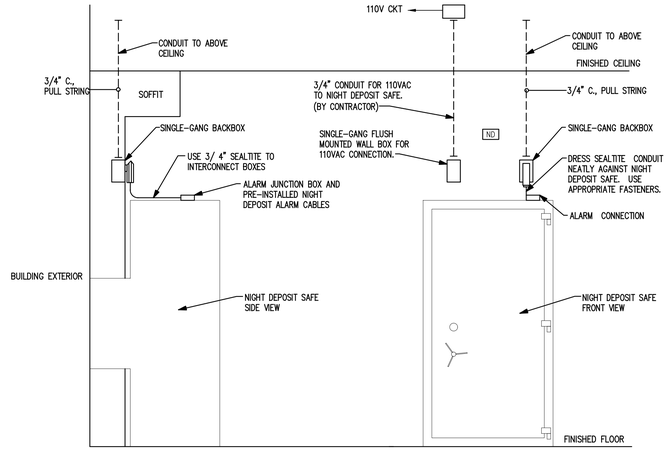
PLAN SYMBOL	DEVICE		CONTRACTOR	ADT	NAVCO	DIEBOLD	
	CCTV CAMERA		RACEWAY, BOXES, PULL STRING		PROVIDE & WIRE		
	CAMERA WITH DOME		RACEWAY, BOXES, PULL STRING		PROVIDE & WIRE		
KP	KEYPAD		RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
SIL	INDICATOR LIGHT		RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
CR	CARD READER		RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
KS	KEY SWITCH OVERRIDE		RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
M	MOTION DETECTOR	CEILING MTD	SEE NOTE	PROVIDE & WIRE			RACEWAY, BOX, PULL STRING IF REQUIRED BY LOCAL CODE
M W	MOTION DETECTOR	WALL MTD	SEE NOTE	PROVIDE & WIRE			RACEWAY, BOX, PULL STRING IF REQUIRED BY LOCAL CODE
SCTY	PANEL		SEE NOTE	PROVIDE & WIRE			SEE DATA ROOM WALL ELEVATIONS. DWG E 4.1
HB	HOLD-UP BUTTON	DESK MTD	RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
HB W	HOLD-UP BUTTON	WALL MTD	RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
C	DOOR CONTACT		RACEWAY, BOX, PULL STRING	PROVIDE & WIRE			
DVR	16-CHANNEL DVR		SEE NOTE		PROVIDE		SEE DATA ROOM WALL ELEVATIONS. DWG E 4.1
MON	MONITOR		RACEWAY, BOXES, 110V, PULL STRING		PROVIDE		IN BREAK ROOM
TG4	CELLULAR BACK-UP		RACEWAY, BOXES, 110V, PULL STRING	INSTALL & WIRE			
TCD	TCD PROTECTION PACKAGE		RACEWAY, BOXES, PULL STRING	INSTALL & WIRE			
ATM	ATM PROTECTION PACKAGE		RACEWAY, BOXES, PULL STRING	INSTALL & WIRE			
ND	NIGHT DROP PROTECTION PACKAGE		RACEWAY, BOXES, 110V, PULL STRING	INSTALL & WIRE			
SP	SAFE PROTECTION PACKAGE		RACEWAY, BOX, PULL STRING	INSTALL & WIRE			

- ALL REQUIRED RACEWAYS, RACEBOXES, JUNCTION BOXES, PULL STRINGS ARE TO BE PROVIDED BY CONTRACTOR
- ALL REQUIRED 110V POWER (RECEPTACLES OR HARDWIRE CONNECTIONS) ARE TO BE PROVIDED BY CONTRACTOR
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL OF THE ABOVE WORK ITEMS



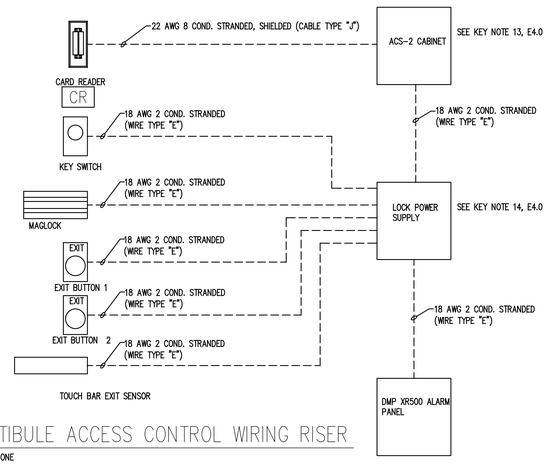
VESTIBULE ACCESS READER & KEYSWITCH MOUNTING HEIGHT

SCALE: NONE



TYPICAL DEVICE CONNECTIONS TO NIGHT DEPOSIT SAFE

SCALE: NONE



VESTIBULE ACCESS CONTROL WIRING RISER

SCALE: NONE

WIRE LEGEND

CABLE TYPE	DESCRIPTION	JACKET COLOR	PAIGE WIRE PART
A	22 AWG 4 COND. STRANDED	WHITE	454650AWH
B	22 AWG 8 COND. STRANDED	WHITE	454689AWH
C	22 AWG 12 COND. STRANDED	WHITE	454653AWH
D	18 AWG 4 COND. STRANDED	WHITE	454644AWH
E	18 AWG 2 COND. STRANDED	WHITE	454641AWH
F	16 AWG 2 COND. STRANDED	WHITE	454649AWH
G	24 AWG – 4 PR. CAT 5E UTP	GRAY	710536E
H	RG59 COAXIAL W/ 18 AWG ("SIAMESE")	WHITE	454820AWH
J	22 AWG 8 COND. STRANDED, SHIELDED	WHITE	454901AWH

WIRE MANUFACTURER AND PART NUMBERS MAY ONLY BE SUBSTITUTED WITH EQUIVLENT.

NOTES

ALL WIRES TO BE "HOME-RUN" BACK TO THE HEAD-END EQUIPMENT LOCATION, EXCEPT WHERE NOTED

ALL WIRES SHALL BE CONCEALED/FISHED WHEN POSSIBLE. ANY EXPOSED WIRE SHALL BE IN EMT CONDUIT. WIRES CONCEALED IN WALLS SHALL EXIT THROUGH "RETRO-FIT" OR "OLD-WORK" TYPE BOXES. APPROPRIATE COVERS TO BE USED ON ALL BOXES. SEE APLICABLE DRAWINGS FOR DETAILS.

EC TO FURNISH AND INSTALL CCTV CABLE IN THE NY, NJ & CT. ALL WIRES SHALL BE LABELED ON BOTH ENDS, USING ACCEPTABLE WIRE-MARKING METHODS.

EC TO FURNISH AND INSTALL 110VAC RECEPTACLES AS REQUIRED. COORDINATE WITH ALARM & CCTV VENDORS.

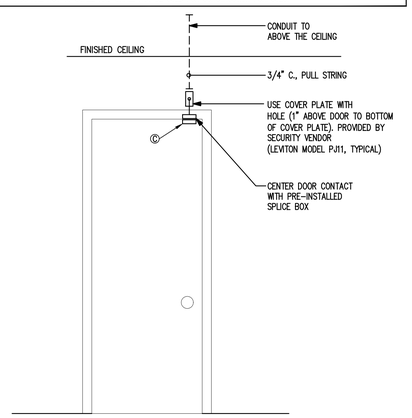
GENERAL CONTRACTOR ("GC") TO FURNISH AND INSTALL 3/4" PLYWOOD FOR MOUNTING HEAD-END EQUIPMENT.

SECURITY VENDOR TO PROVIDE THE FOLLOWING: SECURITY DEVICES, CONTROL PANELS AND TECHNICAL SUPPORT TO EC IF REQUIRED.

CCTV VENDOR WILL PROVIDE ALL CCTV RELATED EQUIPMENT.

SECURITY/CCTV VENDORS TO FURNISH & INSTALL ALL SECURITY CABLES, DEVICES, CONTROL EQUIPMENT AND TERMINATE ALL WIRE CONNECTIONS. DRAWINGS CONTAINED HEREIN ARE TO BE USED AS AN INSTALLATION GUIDE ONLY. SPECIFIC ITEMS NOT COVERED IN THE DRAWINGS OR ANY DETAILS THAT REQUIRE CLARIFICATION OR EXPLANATION SHOULD BE DIRECTED TO THE APPLICABLE VENDOR.

DRAWINGS ARE NOT TO SCALE AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.



TYPICAL DOOR CONTACT INSTALLATION

SCALE: NONE

FOR REFERENCE NOT ALL NOTES APPLY

SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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JAMES A. YBARRA — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 06/12/26

ISSUE	DATE	DESCRIPTION
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PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

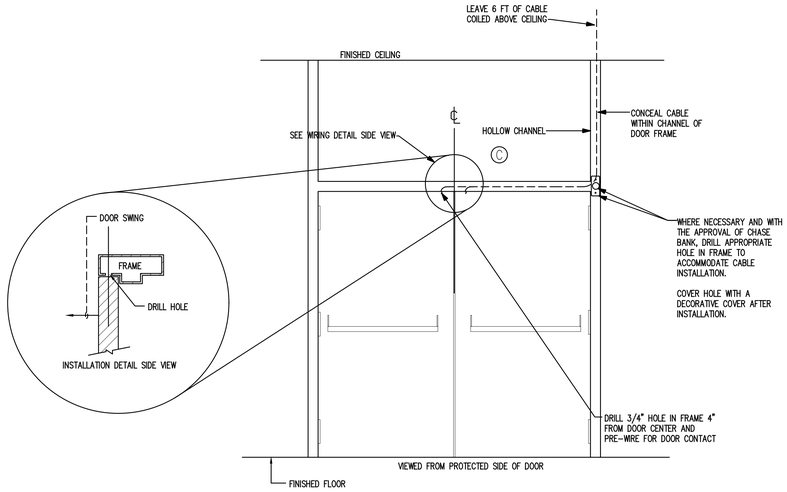
DRAWING STANDARDS v20.7

SHEET TITLE

SECURITY DETAILS

SHEET NUMBER

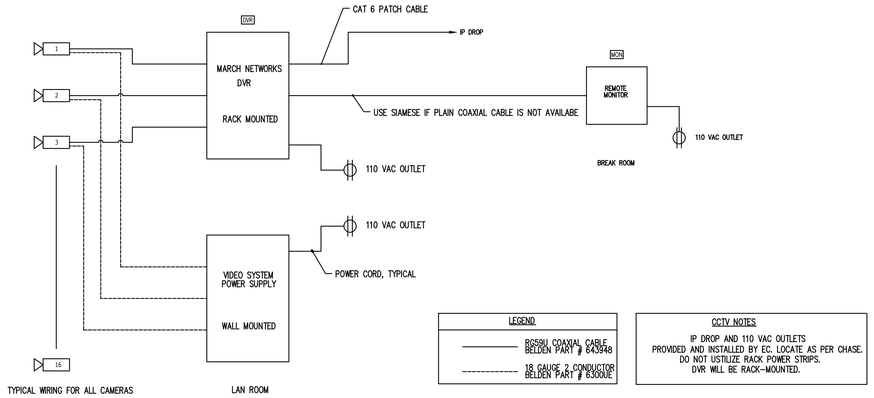
E5.1



RECESSED DOUBLE DOOR CONTACTS

SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR



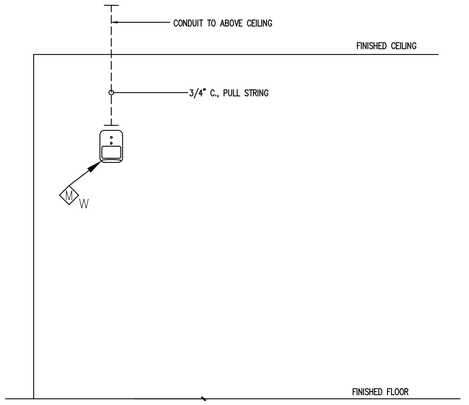
CCTV SCHEMATIC

SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR

NOTES: WHERE PERMITTED, WIRES CONCEALED WITHIN EXTERIOR WALLS. DO NOT NEED TO BE RUN IN EMT CONDUIT UNLESS LOCAL CODES REQUIRE.

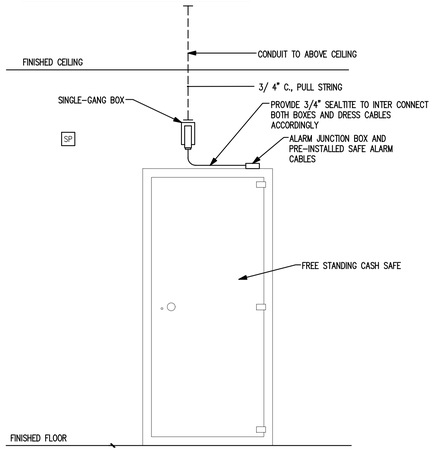
DO NOT INSTALL A JUNCTION BOX BEHIND WALL-MOUNTED MOTION DETECTORS. THE PHYSICAL SIZE WILL NOT COVER A JUNCTION BOX. MAKE A HOLE IN THE SHEETROCK AS SMALL AS POSSIBLE TO SNAKE WIRE OUT OF AND ROUTE WIRE DIRECTLY INTO HOUSING OF MOTION DETECTOR.



WALL MTD MOTION DETECTOR

SCALE: NONE

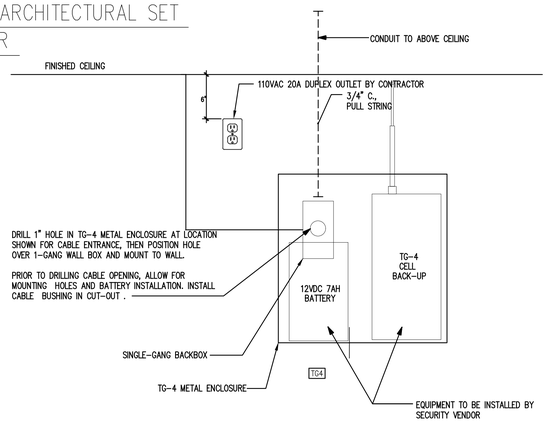
COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR



TYPICAL ALARM WIRING TO CASH SAFE

SCALE: NONE

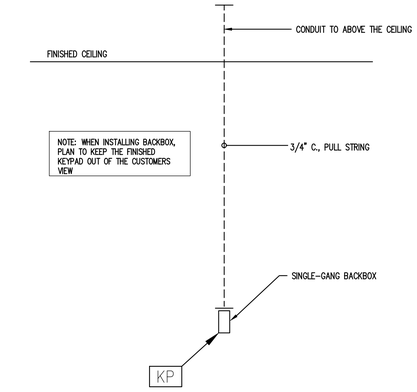
COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR



ATM ROOM TG-4 MOUNTING DETAIL

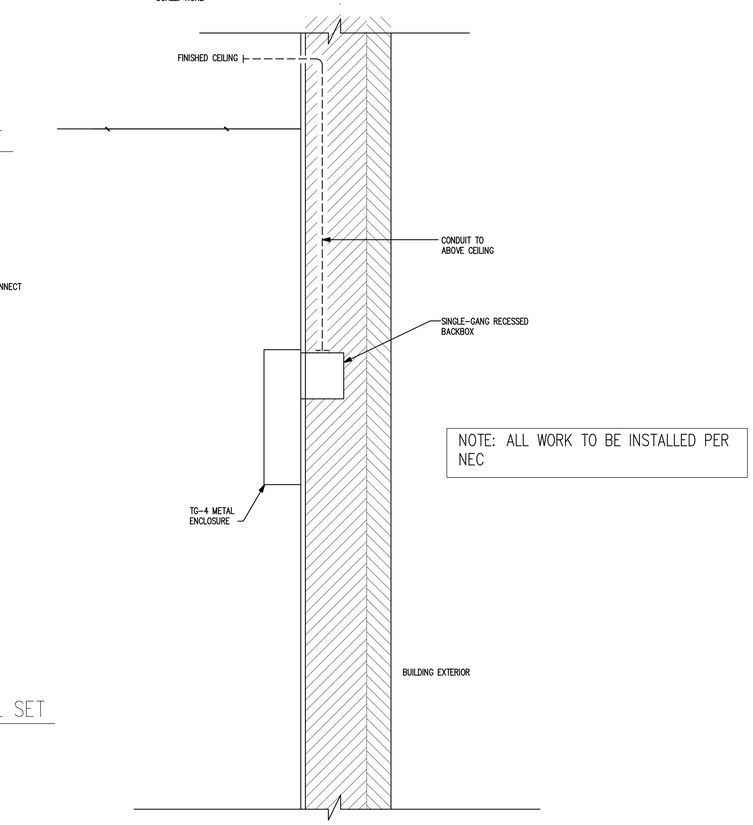
SCALE: NONE

COORDINATE FINAL LOCATIONS WITH SECURITY VENDOR



KEYPAD MOUNTING DETAIL

SCALE: NONE



SIDE ELEVATION DETAIL FOR TG-4 FLUSH MOUNTED JUNCTION BOX

SCALE: NONE

FOR REFERENCE ONLY UNDER SEPARATE LOW VOLTAGE PERMIT

SCALE: NONE

COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL SET AND SECURITY VENDOR

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CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

SECURITY DETAILS

SHEET NUMBER

E5.2

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	**Project Title**	CBR25008.0 Vancouver, WA. - 2021 WSEC	For Building Department Use: **Date: Jun 19, 2026**
	Project Address	WA	
	Applicant Name	Russel Arellano	
	Applicant Phone	425-409-5016	
	Applicant Email	rarellano@pmdginc.com	

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**		Office, Bank/Financial	**Building Cond. Floor Area**	5,352
General Project Types	Tenant Spaces – First Build Out	**New Building or Addition Lighting Scope**	Interior Lighting	**Alteration Lighting Scope**		**Project Cond. Floor Area**	5,352
						Floors Above Grade	1
						Compliance Method	General Prescriptive
Lighting Project Description							

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior (Interior includes both interior & parking)**	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Tenant Spaces – First Build Out	Interior Lighting		Space by space	No Calculation Adjustments selected	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	Reduced lighting power density - 10% lower than LPA Reduced lighting power density - 20% lower than LPA		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	CBR25008.0 Vancouver, WA. - 2021 WSEC	**Date**	Jun 19, 2026
Lighting Power Calculation	TENANT SPACES – FIRST BUILD OUT - INTERIOR LIGHTING	**Compliance Verification**	COMPLIES
Compliance Method	Space by space	**LPA Calculation Adjustment**	none

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD + Display LPD)	Compliance Status
Conference/meeting/multipurpose	General	413	0.97	401		
Computer room/data center	General	517	0.94	486		
Corridors	General	271	0.41	111		
Lobby	General	1,609	0.84	1,352		
Lounge/breakroom	General	291	0.59	172		
Office	Enclosed ≤ 250 sf	1,358	0.74	1,005		
Restroom	General	174	0.63	110		
Storage room	Less than 50 sf	45	0.51	23		
			Proposed Total LPD		**3,631**	
	Totals			**3,658**	**3,631**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Direct / indirect pendant	L410	10	40			400
Direct / indirect pendant	L411	2	12			24
Direct / indirect pendant	L413	2	10			20
Troffer	L2/L2EM	24	20			480
Troffer	L501-6	1	8			8
Troffer	L502	2	12			24
Troffer	L503/L503E	4	18			72
Troffer	L504/L504E	14	24			336
Troffer	L505/L505E	2	30			60
Troffer	L506/L506E	36	36			1,296
Troffer	L508/L508E	2	48			96
Recessed downlight	L11	24	14			336
Suspended	L8	2	27			54
Suspended	L804/L804E	2	20			40
Under-cabinet	L3	7	7			49
Other individual fixture type	L22	2	18			36
Linear Fixtures						
LED strip	L308	2	150			300
					Proposed Total LPD	**3,631**

Project Title	CBR25008.0 Vancouver, WA. - 2021 WSEC	**Date**	Jun 19, 2026
Proposed Fixtures Details	TENANT SPACES – FIRST BUILD OUT - INTERIOR LIGHTING		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Direct / indirect pendant	L410	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Direct / indirect pendant	L411	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Direct / indirect pendant	L413	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L2/L2EM	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L501-6	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L502	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L503/L503E	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L504/L504E	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L505/L505E	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L506/L506E	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Troffer	L508/L508E	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Recessed downlight	L11	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Suspended	L8	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Suspended	L804/L804E	E1.0	LED	New
	Fixture Description: 4ft Suspended Linear			Are these fixtures located within a daylight zone?: Yes, applying exception for controls
	Daylight sensing controls exception applied: Lighting requiring specific application controls			Do these fixtures require specific application lighting controls?: None required
Under-cabinet	L3	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Other individual fixture type	L22	E1.0	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?:
	Do these fixtures require specific application lighting controls?:			
Linear Fixtures				
LED strip	L308	E1.0	LED	New
	How is linear fixture quantity defined?: Quantity of fixtures with current limiting device			Length of track (LT):
	Fixture Description: Linear Strip			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: Luminaires for which additional lighting power is claimed			

PREPARED FOR:

CHASE

CHASE OVP # 48200R025765
TENANT IMPROVEMENTS
VANCOUVER RELO

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ROY PEDRO ARCHITECT

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SEAL

JAMES A. YSAURAL — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 06/12/26

ISSUE	DATE	DESCRIPTION
	06/12/2026	BUILDING/BID SUBMITTAL

PROJECT INFORMATION BLOCK

JOB #	CBR25008.0
DATE:	10/15/2025
DRAWN BY:	RR
CHECKED BY:	JY

MODEL

DRAWING STANDARDS v20.7

SHEET TITLE

ENERGY COMPLIANCE FORM

SHEET NUMBER

E6.0

STRUCTURED CABLING SYMBOLS LIST

SYMBOL	DESCRIPTION	BACKBOX REQUIREMENTS (BY EC)	CONDUIT REQUIREMENTS (BY EC)	MOUNTING HEIGHT (UNLESS NOTED OTHERWISE)
X	DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS /CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. REDUCER TO MATCH DRY WALL THICKNESS.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL - 18" AFF, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT
X	DATA OUTLET LOCATION, FLOOR MOUNTED. PROVIDE (X) CAT 6 RJ-45 JACKS, (X) HORIZONTAL CAT 6 CABLES, & A 4-PORT FACEPLATE OR INSERT TO FIT FLOOR BOX. PROVIDE BLANKS FOR UNOCCUPIED PORTS. "X" DENOTES NUMBER OF JACKS/CABLES. WHEN NO NUMBER IS PRESENT IT SHALL BE ONE CAT 6 JACK/CABLE.	DUAL SERVICE POWER AND LOW VOLTAGE RECESSED BOX.	MINIMUM OF ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING. REFER TO CABLE FILL CHART.	FLOOR
W	WALL MOUNTED TELEPHONE OUTLET LOCATION. WALL MOUNTED, 1-PORT OUTLET. PROVIDE (1) CAT 6 RJ-45 JACK, (1) HORIZONTAL CAT 6 CABLE, AND A WALL PHONE FACEPLATE FOR MOUNTING A TELEPHONE.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	TYPICAL 44" AFF WITH A 6" CLEARANCE ON ALL SIDES OF FACEPLATE, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT
ATM/CAM	ATM/CAM DATA OUTLET LOCATION, WALL MOUNTED. PROVIDE (1) CAT6 & (1) CAT6A RJ-45 JACKS, (1) HORIZONTAL CAT6 CABLE, (1) HORIZONTAL CAT6A CABLE, & A 4-PORT WHITE FACEPLATE. PROVIDE BLANKS FOR UNOCCUPIED PORTS. REFER TO DETAIL ON TC-302.	5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL.	ONE 1" CONDUIT TO ABOVE THE ACCESSIBLE CEILING.	CONCEALED BEHIND ATM, COORDINATE WITH ATM DESIGN
WAP #	WIRELESS ACCESS POINT OUTLET LOCATION. CEILING MOUNTED. PROVIDE (1) HORIZONTAL CAT 6A CABLE & A PLENUM RATED IN-CEILING CONNECTOR ASSEMBLY.	HARD CEILING LOCATIONS ONLY: 5" SQUARE, BY 2-7/8" DEEP BACKBOX WITH A SINGLE GANG REDUCER. PROVIDE RANDL INDUSTRIES T-55017 WITH D-51 SERIES REDUCER OR EQUAL. SPECIALTY, OR OPEN-TO-STRUCTURE CEILING: SEE INSTALLATION DETAILS	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	CEILING
CAM	INTERIOR CEILING MOUNTED SECURITY CAMERA LOCATION. 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.	AT 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	INTERIOR WALL MOUNTED SECURITY CAMERA LOCATION. 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. FOR WALL MOUNTED LOCATIONS ROUTE 1" FLEX CONDUIT TO WALL INDICATED AT NOTED MOUNTING HEIGHT	NOT APPLICABLE.	HARD CEILING LOCATIONS ONLY: ONE 1" CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.	ABOVE ACCESSIBLE CEILING
ANT	INTERIOR CEILING MOUNTED CELLULAR ANTENNA LOCATION. PROVIDE (2) HORIZONTAL SHIELDED CAT 6A CABLES, & A 2-PORT PLENUM RATED SURFACE MOUNTED BOX, WITH (2) BLUE SHIELDED CAT6A JACKS ABOVE THE CEILING FOR THE CELLULAR CONTRACTOR TO ACCESS AND CONNECT TO THE ANTENNA. REFER TO DETAILS ON TC-402 FOR FURTHER INFORMATION.	NOT APPLICABLE. CONNECTION SHOULD ALWAYS BE ABOVE AN ACCESSIBLE CEILING.	NOT APPLICABLE. CONNECTION SHOULD ALWAYS BE ABOVE AN 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. FOR INTERIOR LOCATIONS, LEAVE PIGTAIL COILED ABOVE THE CEILING. FOR EXTERIOR LOCATIONS, ROUTE PIGTAIL THROUGH 1" FLEX CONDUIT TO EXTERIOR BACK BOX.	FOR EXTERIOR CAMERA LOCATIONS, PROVIDE A DUAL GANG BACK BOX WHERE SHOWN ON FLOOR PLANS.	FOR EXTERIOR CAMERA LOCATIONS, PROVIDE A 1" FLEX CONDUIT TO ABOVE ACCESSIBLE CEILING.	SEE SECURITY PLANS FOR MOUNTING HEIGHTS
1/CAM	1/CAM DATA OUTLET LOCATION, WALL MOUNTED BENEATH TELLER COUNTER. PROVIDE (1) CAT6 & (1) CAT6A RJ-45 JACK, (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.	TYPICAL - 18" AFF, SEE ARCHITECTURAL PLANS FOR EXACT HEIGHT
	FIRE-RATED WALL SLEEVE FOR HORIZONTAL CABLING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE
	WALL SLEEVE FOR HORIZONTAL CABLING TO CONNECT TWO ACCESSIBLE CEILINGS SEPARATED AN INACCESSIBLE CEILING. PROVIDE SIZE AS INDICATED ON THE PLANS.	NOT APPLICABLE	NOT APPLICABLE	AT LEAST 6" ABOVE FINISHED ACCESSIBLE CEILING OF SURROUNDING SPACE
	LADDER RACK/CABLE RUNWAY INSTALLED WITHIN THE RMER AND/OR RTR. FINISH SHALL BE WHITE. SIZE AS INDICATED ON THE FLOOR PLAN DRAWINGS.	NOT APPLICABLE	NOT APPLICABLE	8'-0" AFF
	TELECOMMUNICATIONS GROUNDING BUSBAR.	NOT APPLICABLE	NOT APPLICABLE	6" BELOW LADDER RACK
	2-POST EQUIPMENT RACK WITH BLACK FINISH.	NOT APPLICABLE	NOT APPLICABLE	FLOOR
	VERTICAL WIRE MANAGER MOUNTED TO EITHER SIDE OF THE EQUIPMENT RACK WITH A BLACK FINISH. SIZE AS NOTED.	NOT APPLICABLE	NOT APPLICABLE	RACK
1 TC-XXX	REFERENCE TO ANOTHER DRAWING VIEW. EXAMPLE SHOWN REFERS TO DETAIL 1 ON DRAWING TC-XXX.	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

NOTES:
A. BACKBOXES SHALL BE AS FOLLOWS UNLESS ALTERNATE MANUFACTURER HAS BEEN APPROVED BY OPR:
1. BACKBOX WITH 1" AND 1-1/4" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55017.
2. BACKBOX WITH 3/4" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55018.
3. BACKBOX WITH 1/2" AND 1" KNOCKOUTS: RANDL INDUSTRIES INC. PART #T-55019.
4. 1/2" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G012.
5. 5/8" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G058.
6. 3/4" RAISE SINGLE GANG REDUCERS: RANDL INDUSTRIES INC. D-51G034.

THE JPMC IMPLEMENTATION PROJECT MANAGER WILL SOLICIT BIDS FROM STRUCTURED CABLING CONTRACTORS, NOT THE GENERAL CONTRACTOR OR ELECTRICAL CONTRACTOR. HOWEVER, THESE PLANS CONTAIN SCOPE OF WORK THAT THE GC AND EC ARE RESPONSIBLE FOR AND SHALL INCLUDE IN THEIR BID.

OVERVIEW

THESE DRAWINGS CONTAIN THE SPECIFICATIONS FOR INSTALLING THE STRUCTURED CABLING INFRASTRUCTURE FOR THE PROJECT LOCATED AT THE ADDRESS INDICATED ON THE DRAWINGS. 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 (IF REQUIRED)

STRUCTURED CABLING CONTRACTOR CLOSEOUT DOCUMENTATION REQUIREMENTS:
A. REQUIRED 'AS-BUILTS':
   a. FLOOR PLAN 'AS-BUILTS' WITH ALL THE OUTLET LABELING INDICATED.
   b. FURNISH AND INSTALL A LAMINATED COPY (18X24) OF THE AS-BUILT FLOOR PLAN
   c. SUBMIT 'AS-BUILT' FLOOR PLANS IN BOTH DWG AND PDF FORMATS TO JPMC PRIOR TO THE COMPLETION OF THE PROJECT.
B. ALL STRUCTURED CABLING TEST RESULTS IN PDF FORMAT. THIS DOCUMENTATION SHALL REFERENCE THE PROJECT ADDRESS WITHIN THE DOCUMENT.
C. ALL STRUCTURED CABLING MANUFACTURER WARRANTIES. THIS DOCUMENTATION SHALL REFERENCE THE PROJECT ADDRESS WITHIN THE DOCUMENT.

REFER ALL QUESTIONS TO STRUCTURED CABLING ENGINEER LISTED BELOW:
KEVIN BRENNAN
JPMC
PH: 614.217.5158
EMAIL: kevin.m.brennan@jpmchase.com

BASE BID

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
MPoE = MINIMUM POINT OF ENTRY
NEC = NATIONAL ELECTRICAL CODE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION
OPR = OWNER'S PROJECT REPRESENTATIVE
PBB = PRIMARY BONDING BUSBAR
PDU = POWER DISTRIBUTION UNIT
PM = PROJECT MANAGER
RBB = RACK BONDING BUSBAR
RBC = RACK BONDING CONDUCTOR
RMER = RETAIL MAIN EQUIPMENT ROOM
RTR = RETAIL TELECOMMUNICATIONS ROOM
SBB = SECONDARY BONDING BUSBAR
SC = SECURITY CONTRACTOR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
TBC = TELECOMMUNICATIONS BONDING CONDUCTOR
TC = TELECOMMUNICATIONS CONTRACTOR
TEBC = TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TIA = TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UTP = UNSHIELDED TWISTED PAIR

INDEX OF DRAWINGS: TELECOMMUNICATIONS

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 FIRST FLOOR 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 #3 75" DISPLAY INSTALLATION DETAILS
TC-502	WELCOME WALL - MEDIUM 55" DISPLAY INSTALLATION DETAILS
TC-503	AV SOLUTION #9 98" DISPLAY INSTALLATION DETAILS
TC-601	TELECOM MATERIALS AND PATCH PANEL SCHEDULES
TC-602	ROOM READY & PRODUCTION READY CHECKLISTS

CONDUIT REQUIREMENT CABLE FILL FOR UTP CABLE (CAT 6 OD = 0.24", CAT 6A OD = 0.285")

CONDUIT TRADE SIZE	CONDUIT AREA (SQ IN)	40% FILL # OF CAT 6 CABLES	40% FILL # OF CAT 6A CABLES
1"	0.81	7	5
1-1/4"	1.27	11	9
1-1/2"	1.86	18	12
2"	3.26	28	21
4"	12.56	111	92

ASSUMES INDUSTRY STANDARD AND NEC CODE IS TO DESIGN FOR A MAXIMUM OF 40% FILL. THE ACTUAL NUMBER OF CABLES WHICH CAN BE INSTALLED IN A PARTICULAR CONDUIT CAN BE LESS DEPENDING UPON CONDUIT LENGTH AND NUMBER OF BENDS. SEE CONDUIT INSTALLATION NOTES FOR MORE INFORMATION.

IMPLEMENTATION RESPONSIBILITY MATRIX

INSTALLATION ITEMS	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	SECURITY CONTRACTOR	A/V CONTRACTOR	3RD PARTY	JPMC
STRUCTURED CABLING - LOW VOLTAGE HORIZONTAL AND BACKBONE CABLING, RACKS, PATCH PANELS, PATCH CORDS			F & I				
CONDUITS AND BACKBOXES FOR STRUCTURED CABLING, AV, AND SECURITY DEVICES, INCLUDING ASSOCIATED INNERDUCT AND PULL STRINGS.		F & I					
NEMA RATED BOXES FOR POLE MOUNTED CCTV INSTALLATIONS		F & I					
AUDIO / VISUAL DEDICATED IN-WALL STORAGE BOXES (PAC BOXES)	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 & ANY METAL CONDUITS ENTERING THE ROOM FOR LOW VOLTAGE USE		F & I					
GROUNDING IN THE RMER/RTR FROM THE WALL MOUNTED BUSBAR TO THE RACK BUSBAR & ALL OTHER EQUIPMENT			F & I				
PLYWOOD BACKBOARDS - MARKED WITH INTENDED USE PER THE TC-DRAWINGS.	F & I						
NETWORK EQUIPMENT WITHIN RMER/RTR AND RED BOX						I	F
RACK MOUNTED POWER DISTRIBUTION UNITS (PDUs) FOR IT EQUIPMENT			F & I				
MOUNTING BRACKETS FOR SERVER AND UPS			F & I				
POWER CORDS FOR NETWORK EQUIPMENT WITHIN THE RMER/RTR			F & I				
WIRELESS ACCESS POINTS			I				F
SECURITY DEVICES - CAMERAS, ACCESS CONTROL, INTRUSION DETECTION.				F & I			
A/V DEVICES - DISPLAYS, CONTROLS, SPEAKERS, AMPLIFIERS, DIGITAL SIGNAGE, ETC.					F & I		
WIRELESS CELLULAR ANTENNA SYSTEM						F & I	
WIRELESS CELLULAR ANTENNA SYSTEM PATHWAYS		F & I					
BAS SYSTEM & DEVICES						F & I	
BACKGROUND MUSIC SYSTEM & DEVICES						F & I	
SCOPE DEFINED IN ROOM READY & PRODUCTION READY CHECKLISTS	F & I	F & I	F & I	F & I	F & I	F & I	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. 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 ONE PATCH THAT ARE INSTALLED FROM THE OUTLET TO THE WAP AND ONE ON THE RMER/RTR SIDE.

F. NETWORK ELECTRONICS EQUIPMENT RACK AND STACK: CONTRACTOR SHALL COORDINATE WITH JPMC GTI PROJECT MANAGER.

G. WALL PHONE INSTALLATION: CONTRACTOR SHALL RECEIVE, UN-BOX, MOUNT, PATCH, LABEL WALL PHONE BRACKETS, AND RECORD RELEVANT INFORMATION FOR THE WALL MOUNTED PHONES. THE WALL PHONE BRACKETS SHALL BE LABELED WITH THE TELECOMMUNICATIONS OUTLET LABEL ID ON THE TOP OF THE BRACKET SO IT IS VISIBLE AFTER THE WALL PHONE IS INSTALLED. THE CONTRACTOR SHALL ALSO MOUNT THE WALL PHONES. THE OWNER SHALL FURNISH THE WALL PHONES AND BRACKETS.

H. NETWORK TURN-UP: THE CONTRACTOR SHALL PROVIDE SUPPORT DURING NETWORK TURN-UP. THIS SHALL INCLUDE LABOR FOR TWO TECHNICIANS FOR OFF-HOURS WORK FOR TWO HOURS PER RMER AND/OR RTR.

GENERAL COORDINATION NOTES

A. RMERS AND RTRS SHALL NOT BE USED AS A PASS THROUGH (WHETHER UNDER A RAISED FLOOR OR ABOVE CEILING) FOR ANY OTHER TRADES ASIDE FROM STRUCTURED CABLING. ANY PENETRATIONS INTO THESE ROOMS, INCLUDING BUT NOT LIMITED TO ELECTRICAL OR MECHANICAL FIT-OUT TO SOLELY SUPPORT THE MERS AND TRS, SHALL BE ROUTED AWAY FROM THE TECHNOLOGY EQUIPMENT. ROUTING OF CONDUIT SHALL TAKE THE SHORTEST PATH INTO THESE ROOMS.

B. CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPING A STRUCTURED CABLING BILL OF MATERIALS FROM DESIGN DOCUMENTS PROVIDED. IN ALL CASES WHERE CONTRACTOR IDENTIFIES UNCLEAR OR IMPRECISE DRAWINGS OR SPECIFICATIONS DURING THE BIDDING OR QUOTATION PROCESS, CONTRACTOR SHALL CONTACT OPR, WHO SHALL FURNISH APPROPRIATE INTERPRETATION. UPON AWARD, CONTRACTOR ASSUMES RESPONSIBILITY FOR CORRECTING ANY AND ALL INCONSISTENCIES AT NO ADDITIONAL COST TO OWNER. HERE THE REQUIREMENTS OF CERTAIN SECTIONS OF THE SPECIFICATIONS ARE MORE STRINGENT THAN APPLICABLE CODES, RULES, REGULATIONS, AND ORDINANCES, THE SPECIFICATIONS SHALL APPLY. THE CONTRACTOR SHOULD NOTE ITEMS IN THE DRAWINGS OR THE SPECIFICATIONS, CONSTRUCTION OF WHICH WOULD RESULT IN CODE VIOLATIONS, THE CONTRACTOR SHALL PROMPTLY CALL THEM TO THE ATTENTION OF THE OPR IN WRITING.

TELECOM CARRIER CONDUIT INSTALLATION NOTES:

A. ALL NEW CONDUITS FOR TELECOMMUNICATIONS CARRIER CABLING SHALL BE RIGID METALLIC CONDUIT FOR EXPOSED OVERHEAD AND SCHEDULE 40 PVC CONDUIT FOR UNDERGROUND. EACH CONDUIT SHALL HAVE A 3-CELL MAXCELL INNERDUCT INSTALLED AND LABELED WITH THE SOURCE AND DESTINATION.

B. ALL CABLES MUST BE PULLED AT THE SAME TIME TO ACHIEVE THE GREATER FILL LEVELS.

C. PULL BOXES SHOULD BE PLACED EVERY 100 FEET OR IF MORE THAN 180 DEGREES OF BENDS ARE INSTALLED IN THE CONDUIT.

D. CONDUITS SHALL ENTER AND EXIT PULL BOXES IN A CONTINUOUS DIRECTION. PULL BOXES ARE NOT TO BE USED FOR 90 DEGREE BENDS.

E. ALL 90 DEGREE BENDS SHALL HAVE A SWEEPING BEND WITH A BEND RADII EQUAL TO AT LEAST 10 TIMES THE DIAMETER OF THE CONDUIT.

F. ALL CONDUIT END POINTS SHALL BE FREE OF SHARP EDGES AND PROVIDED WITH A SUITABLE BUSHING.

G. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED PRIOR TO THE STRUCTURED CABLING INSTALLATION. A PULL STRING SHALL ALSO BE WITHIN THE CONDUITS AFTER THE STRUCTURED CABLING INSTALLATION.

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site location
JP MORGAN CHASE
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VANCOUVER WA 98660
BUILDING ID: 601795

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SECTION 27 00 00 - COMMUNICATIONS INTRODUCTORY STANDARD

PART 1 -

.1 GENERAL REQUIREMENTS

A. THIS DOCUMENT IS INTENDED TO PROVIDE THE INFORMATION NECESSARY TO ALLOW THE DESIGN AND CONSTRUCTION TEAMS TO PLAN AND IMPLEMENT TELECOMMUNICATIONS CABLING INFRASTRUCTURES AND TO ENSURE THAT ALL NEW INSTALLATIONS AND RENOVATIONS ARE UNIFORM AND CONSISTENT WITH COMPANY-WIDE STANDARDS. THIS DOCUMENT IDENTIFIES THE TELECOMMUNICATIONS INFRASTRUCTURE REQUIREMENTS FOR RETAIL SPACES.

B. IT IS ENVISIONED THAT NOT ALL RETAIL SPACES WILL REQUIRE THE COMPLETE RANGE OF SERVICES AND TELECOMMUNICATIONS INFRASTRUCTURE DESCRIBED IN THIS DOCUMENT. THE EXACT SOLUTION THAT SUITS EACH PARTICULAR SPACE WILL BE DEFINED AT THE COMMENCEMENT OF EACH PROJECT BY THE PROJECT TEAM.

.2 PURPOSE

A. THIS STANDARD FOR RETAIL STRUCTURED CABLING DESIGN AND THE ACCOMPANYING APPENDICES IS INTENDED AS A STANDARD TO BE USED BY CONSTRUCTION DESIGN PROFESSIONALS (ARCHITECTS, ENGINEERS, DESIGNERS, ETC.). ITS PURPOSE IS TO DEFINE THE BASELINE DESIGN FOR RETAIL FACILITIES IN ORDER TO MAKE THEM EASIER TO SPECIFY, UTILIZE, AND MANAGE, AND TO STATE THE CABLING INFRASTRUCTURE STANDARDS ASSOCIATED WITH THESE SPACES. TO PROMOTE WIDE UNDERSTANDING IT IS BUILT UPON A FOUNDATION OF RECOGNIZED INDUSTRY STANDARDS AND BEST PRACTICES.

B. THIS STANDARD MUST BE USED AS A TOOL TO PLAN RETAIL FACILITIES. THIS DOCUMENT IS NOT INTENDED TO REPLACE THE SPECIFIC NEEDS OF A GIVEN RETAIL FACILITY OR ASSOCIATED DESIGN COORDINATION. IT MUST BE USED IN CONJUNCTION WITH NEEDS ASSESSMENT AND PROPER DESIGN COORDINATION. SPECIFIC PROJECT REQUIREMENTS SHALL BE DEFINED IN T-SERIES DRAWINGS THAT SHALL BE ISSUED AS PART OF A COMPLETE CONSTRUCTION DRAWING SET WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

C. IF A STANDARD CANNOT BE MET DURING THE PLANNING AND DESIGN PHASES, THE GROUP ACCOUNTABLE TO MEET THE REQUIREMENTS MUST SUBMIT A REQUEST FOR EXCEPTION APPROVAL PRIOR TO PROCEEDING WITH A DEVIATION FROM THE STANDARD.

.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.

.4 TECHNOLOGY SPACE DEFINITIONS

A. THE FOLLOWING ARE THE TYPES OF TECHNOLOGY SPACES THAT ARE FOUND IN RETAIL FACILITIES, RETAIL MAIN EQUIPMENT ROOM (RMER), RETAIL TELECOMMUNICATIONS ROOM (RTR), AND RETAIL TELECOMMUNICATIONS ENCLOSURE (RTE).

B. RETAIL MAIN EQUIPMENT ROOM (RMER): THE RMER SERVES AS A COMMON NETWORK DISTRIBUTION POINT FOR THE TELECOMMUNICATIONS ROOMS OR TELECOMMUNICATIONS ENCLOSURES WITHIN THAT BUILDING. HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA, AND THE INTERFACE WITH THE TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS). ITEMS WITHIN THE RMER INCLUDE:
1. FLOOR MOUNTED EQUIPMENT RACKS.
2. JPMC NETWORKING EQUIPMENT (ROUTERS AND SWITCHES).
3. BACKBONE CABLING TERMINATIONS FROM RMER TO RTRS (IF APPLICABLE).
4. HORIZONTAL CABLING TERMINATIONS.
5. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
6. WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
7. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
8. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
9. DEDICATED COOLING UNIT.
10. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
11. ACCESS CONTROL SYSTEM PANELS.
12. INTRUSION DETECTION SYSTEM PANELS.
13. MOOD MUSIC SYSTEM EQUIPMENT.
14. BUILDING MANAGEMENT SYSTEM (BMS) EQUIPMENT.

C. RETAIL TELECOMMUNICATIONS ROOMS (RTR): A RTR SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A GIVEN AREA. ITEMS WITHIN A RTR INCLUDE:
1. FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
2. JPMC NETWORKING EQUIPMENT (SWITCHES).
3. BACKBONE CABLING TERMINATIONS TO THE RMER.
4. HORIZONTAL CABLING TERMINATIONS.
5. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
6. TELECOMMUNICATIONS GROUNDING BUSBAR.
7. DEDICATED COOLING UNIT.
8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.

D. STAND ALONE ATM: SMALL ROOM ADJOINING OR BEHIND THE FRONT OF THE ATMS AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24). ITEMS INCLUDE:
1. FLOOR MOUNTED RACK OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
2. JPMC NETWORKING EQUIPMENT (SWITCH).
3. HORIZONTAL CABLING TERMINATIONS.
4. STRUCTURED CABLING PATHWAYS (LADDER RACKS AND FIRE-RATED WALL SLEEVES).
5. WIRED TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
6. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
7. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
8. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.
9. ACCESS CONTROL SYSTEM PANELS.
10. INTRUSION DETECTION SYSTEM PANELS.
11. ELECTRICAL PANEL

E. TELECOMMUNICATIONS ENCLOSURE (TE): A TE SERVES AS A HORIZONTAL CABLING DISTRIBUTION POINT FOR A LIMITED AMOUNT OF CABLES (NO MORE THAN 24) FOR A GIVEN SMALL AREA AND SHALL ONLY BE USED WHEN ABSOLUTELY NECESSARY WITH APPROVAL FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. A TE CONSISTS OF:
1. WALL MOUNTED OR WALL MOUNTED-FLOOR SUPPORTED EQUIPMENT CABINET.
2. JPMC NETWORKING EQUIPMENT (SWITCH).
3. HORIZONTAL CABLING TERMINATIONS.
4. WIRELESS TELECOMMUNICATIONS SERVICE PROVIDER CABLING ENTRANCE, CABLING TERMINATIONS, AND EQUIPMENT.
5. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
6. AUDIO/VIDEO EQUIPMENT TO SUPPORT DIGITAL SIGNAGE APPLICATIONS.

F. ITEMS NOT WITHIN THE RMER OR RTR INCLUDE:
1. ELECTRICAL PANELS.
2. FIRE ALARM PANELS.
3. DOMESTIC WATER PIPING.
4. SANITARY WATER PIPING.
5. HVAC PIPING UNLESS TO SUPPORT THE RMER/RTR COOLING UNIT.
6. FIRE PROTECTION PIPING UNLESS TO SUPPORT THE RMER/RTR PER LOCAL CODES.

G. ITEMS NOT WITHIN TE INCLUDE:
1. DOMESTIC WATER PIPING.
2. SANITARY WATER PIPING.
3. HVAC PIPING.
4. FIRE PROTECTION PIPING UNLESS TO SUPPORT THE TE PER LOCAL CODES.

H. GUIDELINES FOR QUANTITY AND LOCATION OF CRITICAL TECHNOLOGY SPACES.
1. RMER:
   a. ONE PER FACILITY, CENTRALLY LOCATED AS MUCH AS POSSIBLE, TO SERVE UP TO 10,000 SQUARE FEET OF SPACE ON THE SAME FLOOR/LEVEL.
2. RTR:
   a. ONE PER ADDITIONAL FLOOR/LEVEL THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE.
   b. ONE PER ADDITIONAL 10,000 SQUARE FEET THAT THE RMER DOES NOT SERVE, CENTRALLY LOCATED AS MUCH AS POSSIBLE FOR THE AREA SERVED.
3. TE:
   a. ONLY TO BE USED WITHIN A STAND-ALONE ATM DESIGN (NON-STAFFED LOCATION WITH ONLY ONE OR TWO ATMS).

.5 DEFINITIONS/TERMINOLOGY/ABBREVIATIONS

A. AHJ: AUTHORITY HAVING JURISDICTION AS DEFINED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.

B. AS-BUILT: DOCUMENTATION THAT INCLUDES FLOOR PLAN DRAWINGS THAT INDICATE ALL STRUCTURED CABLING OUTLET LOCATIONS WITH CABLE LABELING, MAJOR CABLING PATHWAYS, AND RMER/RTR/TE LAYOUTS WITH RACK ELEVATIONS UPON JOB COMPLETION THAT REFLECTS CHANGES FROM THE PLANNED TO THE FINISHED STATE.

C. CM: CONSTRUCTION MANAGER

D. CONTRACTOR: THE STRUCTURED CABLING INSTALLATION CONTRACTOR

E. FURNISH: THE CONTRACTOR SHALL SUPPLY.

F. GC: GENERAL CONTRACTOR

G. HC: HORIZONTAL CROSS-CONNECT

H. ILEC: INCUMBENT LOCAL EXCHANGE CARRIER.

I. INSTALL: TO PUT INTO PLACE OR FIX IN POSITION READY FOR USE.

J. JPMC: JP MORGAN CHASE & COMPANY

K. MANDATORY: EQUIVALENT TERMS INCLUDE *MUST, SHALL, WILL, IS REQUIRED, & ARE REQUIRED.*

L. RMER: RETAIL MAIN EQUIPMENT ROOM

M. RTR: RETAIL TELECOMMUNICATIONS ROOM

N. OPR: OWNER'S PROJECT REPRESENTATIVE. JPMC'S DESIGNATED REPRESENTATIVE RESPONSIBLE FOR A SUCCESSFUL PROJECT OUTCOME.

O. OPTIONAL: EQUIVALENT TERMS INCLUDE *CAN, MAY, SHOULD, PREFERABLY, PREFERS, DESIRED, & DESIRABLE.*

P. OWNER: JP MORGAN CHASE & COMPANY

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

R. PROVIDE: TO FURNISH AND INSTALL.

S. SPECIFICATIONS: DIVISION 27 SPECIFICATIONS, WHICH OUTLINES GENERAL INSTALLATION REQUIREMENTS.

T. TE: TELECOMMUNICATIONS ENCLOSURE

1.6 CODES, REGULATIONS, & STANDARDS

A. ALL ASPECTS OF CONSTRUCTION AND INSTALLATION MUST MEET APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, AS WELL AS ANY REGULATIONS SPECIFIC TO A SITE. LEGALLY BINDING REQUIREMENTS MUST PREVAIL IF THERE ARE ANY CONFLICTS WITH REQUIREMENTS STATED OR IMPLIED IN THIS DOCUMENT. THE AHJ WILL BE THE ARBITER IN SITUATIONS WHERE INTERPRETATION IS NECESSARY TO CLARIFY INFORMATION, OR TO RESOLVE CONFLICTS INVOLVING LEGALLY BINDING REQUIREMENTS.

B. WORK SAFETY MUST BE IN COMPLIANCE WITH PUBLIC LAW 91-596, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). AS APPLICABLE, REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE MUST BE FOLLOWED.

C. CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS EXPLICIT TO THIS STANDARD ARE LISTED IN SECTION 1.8 BELOW, BUT THEY ARE NOT EXHAUSTIVE. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS DOCUMENT, THERE IS AN IMPLIED REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW.

D. CODES, REGULATIONS, STANDARDS, AND INDUSTRY PRACTICES DOCUMENTS CHANGE OVER TIME. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA, ANNEXES, AND AMENDMENTS) MUST BE USED AT THE TIME FACILITIES ARE DESIGNED AND WHEN THEY ARE UTILIZED.

E. ALTHOUGH A NUMBER OF STANDARDS AND PRACTICES ARE CITED IN THIS DOCUMENT, ANSI/TIA-569 "COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS" HAS BOTH EXPLICIT AND IMPLICIT THREADS THROUGHOUT.

F. ADDITIONALLY INFLUENCING THIS STANDARD ARE ACCEPTED INDUSTRY PRACTICES DOCUMENTS SUCH AS THOSE IN THE NECA/BICSI-568 "STANDARD FOR INSTALLING COMMERCIAL BUILDING COMMUNICATIONS CABLING", AND THE BICSI *"TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM)"*.

1.7 REFERENCED JPMC STANDARDS

A. FOR ARCHITECTURE: RETAIL DESIGN COMMUNICATION #18-007.

B. FOR PHYSICAL SECURITY: TS - NAMR - RETAIL FACILITY SECURITY DESIGN STANDARD VERSION 1.0

1.8 REFERENCED CODES AND STANDARDS

A. UNLESS OTHERWISE SPECIFICALLY STATED IN THIS DOCUMENT, ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE FOLLOWING REFERENCE STANDARDS. IN ANY CASE WHERE REGIONAL STANDARDS DISAGREE, LOCAL CODES AND STANDARDS APPLY. EVEN WHEN NOT EXPLICITLY CITED WITHIN THIS STANDARD DOCUMENT, THERE IS AN IMPLIED REQUIREMENT OF COMPLIANCE WITH INDUSTRY NORMS REFLECTED IN RECOGNIZED STANDARDS AND PRACTICES, AS WELL AS REQUIREMENTS BASED IN LAW. CURRENT GOVERNING CODES AND REGULATIONS AT A SITE LOCATION, AND THE MOST RECENT EDITION OF STANDARDS AND PRACTICES DOCUMENTS (INCLUDING ERRATA, ANNEXES, AND AMENDMENTS) MUST BE USED.
1. AMERICANS WITH DISABILITIES ACT (ADA)
2. ASHRAE TC9.9 2011 THERMAL GUIDELINES FOR DATA PROCESSING ENVIRONMENTS
3. BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL, (CURRENT EDITION)
4. CAN/ULC S115, STANDARD METHOD OF FIRE TESTS OF FIRESTOPS SYSTEMS
5. NFPA 70 NATIONAL ELECTRICAL CODE (CURRENT VERSION AS APPLICABLE TO SITE LOCATION)
6. TIA 568.0.D - GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES
7. TIA 568.1.D - COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
8. TIA-568-C.2 - BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARDS
9. TIA 568.3.D - OPTICAL FIBER CABLING COMPONENTS STANDARD
10. TIA -569-C COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES
11. ANSI/TIA-EIA-569-D TELECOMMUNICATIONS PATHWAYS AND SPACES
12. TIA/EIA-606-C ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE
13. TIA-607 COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
14. TIA/EIA-72 CENTRALIZED OPTICAL FIBER CABLING GUIDELINES
15. TIA/EIA-758-B CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATIONS CABLING STANDARD

PART 2 - PRODUCTS

2.1 STRUCTURED CABLING REQUIREMENTS

A. COPPER AND FIBER OPTIC CABLING
1. FOR UTP COPPER CABLING AND F/UTP COPPER CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY COMMSCOPE SYSTIMAX AND THE CONTRACTOR SHALL BE AN AUTHORIZED COMMSCOPE UNIPRISE BUSINESS PARTNER (BP).
2. FOR FIBER OPTIC CABLING, ALL MATERIAL SHALL BE MANUFACTURED BY CORNING AND THE CONTRACTOR SHALL BE CERTIFIED AS A CORNING PREFERRED INSTALLER (PI).

B. CABLING TYPES
1. HORIZONTAL CABLING FOR ALL WIRELESS ACCESS POINTS AND IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE CATEGORY 6A UTP.
2. HORIZONTAL CABLING FOR ALL NON-WIRELESS ACCESS POINTS AND NON-IP-SECURITY CAMERAS UP TO 100M IN LENGTH SHALL BE CATEGORY 6 UTP.
3. HORIZONTAL CABLING FOR ALL HDBASE-T CONNECTIONS SHALL BE CATEGORY 6A F/UTP.
4. HORIZONTAL CABLING FOR IP-SECURITY CAMERAS OVER 100M IN LENGTH SHALL BE OM3 MULTIMODE FIBER OPTIC CABLE.

C. CABLE SUPPORT & PROTECTION
1. WITHIN JPMC OWNED OR LEASED SPACES:
   a. ABOVE AN ACCESSIBLE CEILING: SUPPORTED BY EITHER J-HOOKS OR A WIRE-BASKET STYLE CABLE TRAY.
   b. ABOVE A HARD CEILING: WITHIN CONDUIT.
2. OUTSIDE OF JPMC OWNED OR LEASED SPACES:
   a. ABOVE AN ACCESSIBLE CEILING: WITHIN CONDUIT.
   b. ABOVE A HARD CEILING: WITHIN CONDUIT.
3. ANY REQUIRED JUNCTION AND/OR PULL BOXES LOCATED OUTSIDE OF JPMC OWNED OR LEASED SPACE SHALL BE PROVIDED WITH LOCKS OR TAMPER-PROOF SCREWS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.

D. MATERIAL INTERPRETATION
1. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY OWNER. CONTRACTOR SHOULD NOT ASSUME THAT MATERIALS LISTED IN THIS SPECIFICATION MUST BE INSTALLED MERELY BECAUSE THEY ARE LISTED IN THIS SPECIFICATION. PROJECT-SPECIFIC DETAIL ON REQUIRED MATERIALS IS FURTHER DEFINED IN THE ACCOMPANYING PROJECT DRAWINGS.

PART 3 - EXECUTION

3.1 RMER, RTR, & STAND ALONE ATM DESIGN REQUIREMENTS

A. FOR SITE UTILITIES, ARCHITECTURAL, MECHANICAL, FIRE SUPPRESSION, ELECTRICAL, SECURITY, AND MORE STRUCTURED CABLING REQUIREMENTS, SEE APPENDIX B.

3.2 CONSTRUCTION PROGRESS CHECKLIST

A. FOR A COMPREHENSIVE LIST OF ITEMS TO BE COMPLETED AT VARIOUS MILESTONES OF CONSTRUCTION, SEE APPENDIX A. THE MILESTONES ARE AS FOLLOWS AND SHALL BE INCORPORATED INTO THE CONSTRUCTION SCHEDULE.
1. SHELL READY - CONSISTS OF GENERAL, MEP, & STRUCTURED CABLING CONSTRUCTION ITEMS.
2. ROOM READY - CONSISTS OF GENERAL, MEP, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS.
3. PRODUCTION READY - CONSISTS OF SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS.
4. WORKPLACE READY - CONSISTS OF GENERAL, MEP, FURNITURE, SECURITY, & STRUCTURED CABLING CONSTRUCTION ITEMS OUTSIDE OF THE RMER/RTR.

END OF SECTION

1 SECTION 27 00 00 COMMUNICATIONS INTRODUCTORY STANDARD

SECTION 27 05 00 - QUALITY ASSURANCE FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SPECIFICATION PROVIDES THE REQUIREMENTS FOR ALL STRUCTURED CABLING INSTALLATION CONTRACTORS.

1.2 INSTALLATION CONTRACTOR REQUIREMENTS

A. CERTIFICATIONS/TRAINING
1. THE CONTRACTOR MUST HAVE FIVE YEARS MINIMUM EXPERIENCE IN STRUCTURED CABLING INSTALLATIONS.
2. THE CONTRACTOR SHALL BE CONTRACTOR SHALL BE A COMMSCOPE SYSTIMAX CERTIFIED CONTRACTOR IN ORDER TO PROVIDE THE MINIMUM TWENTY (20) YEAR EXTENDED PRODUCT AND APPLICATIONS ASSURANCE WARRANTY ON PARTS AND LABOR ASSOCIATED WITH THE UTP AND F/UTP CABLING INFRASTRUCTURE.
3. IF THE PROJECT REQUIRES FIBER OPTIC CABLING, 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.
4. THE CONTRACTOR MUST HAVE AT LEAST ONE EMPLOYEE THAT IS A BICSI CERTIFIED INSTALLER 1, INSTALLER 2, OR TECHNICIAN ON SITE DURING THE INSTALLATION OF STRUCTURED CABLING.

B. UNION AFFILIATION
1. IF REQUIRED BASED ON THE LOCATION OF THE PROJECT, THE CONTRACTOR SHALL BE A MEMBER OF THE LOCALLY RECOGNIZED UNION. THIS MAY INCLUDE, BUT NOT LIMITED TO, IBEW OR CWA.

1.3 APPROVED CONTRACTORS

A. APPROVED STRUCTURED CABLING CONTRACTOR LIST
1. JPMC UTILIZES A LIST OF PRE-QUALIFIED CONTRACTORS TO PERFORM ALL STRUCTURED CABLING INSTALLATIONS. IN ORDER FOR A CONTRACTOR TO PROVIDE PRICING FOR A STRUCTURED CABLING INSTALLATION PROJECT, THE CONTRACTOR MUST BE ON THIS LIST.
2. JPMC'S STRUCTURED CABLING DESIGN TEAM MAINTAINS THE APPROVED STRUCTURED CABLING CONTRACTOR 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 APPROVED STRUCTURED CABLING CONTRACTOR LIST.

B. SUBCONTRACTORS
1. JPMC STRUCTURED CABLING PROJECTS AS DEFINED BY THIS STANDARD SHALL ONLY BE IMPLEMENTED BY CONTRACTORS ON THE APPROVED STRUCTURED CABLING CONTRACTOR 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 APPROVED STRUCTURED CABLING 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 APPROVED STRUCTURED CABLING 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 APPROVED STRUCTURED CABLING 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 APPROVED STRUCTURED CABLING 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 APPROVED STRUCTURED CABLING CONTRACTOR LIST.

E. OTHER CONTRACTOR CHANGES
1. UPON UNANIMOUS VOTE BY THE STRUCTURED CABLING TEAM, CONTRACTOR MAY BE REMOVED FROM THE APPROVED STRUCTURED CABLING CONTRACTOR LIST AT THE SOLE DISCRETION OF THE JPMC STRUCTURED CABLING TEAM AT ANY TIME, AND WITHOUT ADVANCE NOTICE BY JPMC. REASONS INCLUDE, BUT ARE NOT LIMITED TO:
   a. CONTRACTOR LOSS OF PROPER MANUFACTURER CERTIFICATION
   b. CONTRACTOR ASSESSMENT OF MACD (MOVE ADD CHANGE DISCONNECT) FEES, WHICH, IN THE SOLE JUDGMENT OF THE JPMC STRUCTURED CABLING TEAM, ARE DETERMINED TO BE CONSISTENTLY EXCESSIVE
   c. FALSIFYING TEST RESULTS.
2. UPON EXECUTION OF THIS CLAUSE, THE JPMC STRUCTURED CABLING TEAM MAY OR MAY NOT ISSUE NOTIFICATION TO CONTRACTOR REGARDING SAID REMOVAL.

1.4 OTHER CONTRACTOR REQUIREMENTS

A. OMISSIONS
1. CONTRACTOR OMISSION OF ANY REQUIREMENT DESCRIBED IN PROJECT DOCUMENTS SHALL NOT BE CONSTRUED AS TO RELIEVE CONTRACTOR OF ANY RESPONSIBILITY OR OBLIGATION REQUIRED TO AFFECT THE COMPLETE AND SATISFACTORY DELIVERY, OPERATION, AND SUPPORT OF ANY AND ALL MATERIALS OR SERVICES.

B. CONTRACTOR ADVERTISING
1. CONTRACTOR SHALL NOT SOLICIT WRITTEN OR VERBAL TESTIMONIALS FROM JPMC PERSONNEL AT ANY TIME. CONTRACTOR SHALL NOT INSTALL OR POST IN JPMC PROPERTIES ANY FORM OF SIGNAGE THAT CONTAINS CONTRACTOR NAME, ADDRESS, TELEPHONE NUMBER, OR LOGO. PHOTOGRAPHS WITHIN JPMC BUILDINGS INCLUDING TECHNOLOGY SPACES ARE STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF JPMC IT RISK MANAGEMENT AND THE LOCAL JPMC SITE MANAGER. ALL REQUESTS SHALL BE SUBMITTED TO THE OPR FOR ROUTING.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. NEW MATERIALS
1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.

B. EQUIVALENTS
1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.

C. SUBSTITUTIONS
1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA RFI'S, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE. MATERIALS MUST BE COMPATIBLE WITH THE END-TO-END SOLUTION BEING PROPOSED

PART 3 - EXECUTION

3.1 PROTECTION OF PROPERTY

A. EXTREME CARE SHALL BE TAKEN BY CONTRACTOR TO PROTECT ALL COMPONENTS OF THE PROPERTY FROM DAMAGE. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES THAT ARE BROKEN DURING CABLE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL PROTECTIVE DEVICES AND COVERINGS REQUIRED TO PROTECT AREAS ADJACENT TO THE WORK AREA. CONTRACTOR SHALL REPAIR DAMAGE TO AREAS ADJACENT TO THE WORK AREA AT NO COST TO THE OWNER, OR THE OWNER SHALL MAKE THE REPAIRS AND BACK CHARGE AGAINST THE TELECOM CONTRACTOR. CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGES TO THIRD PARTIES INCURRED AS A RESULT OF CONTRACTOR'S WORK IN THIS PROJECT. PROTECTION OF PROPERTY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING PROTECTIVE MEASURES:
1. KEEPING THE RMER OR RTR FREE OF FOOD AND DRINK AT ALL TIMES.
2. LEAVING RMER OR RTR DOORS CLOSED AT ALL TIMES.
3. EMPLOYING HEPA VACUUM WHENEV

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. 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.

C. SIGNAGE OR SAFETY CONES SHOULD BE USED TO SURROUND OPEN FLOOR TILES, ELECTRICAL CORDS STRUNG ALONG THE FLOOR, AND ANY AREAS THAT ARE BEING DAMP-MOPPED.

PART 2 - PRODUCTS

2.1 APPROVED EQUIPMENT & MATERIALS

A. THE CONTRACTOR WILL USE THE FOLLOWING APPROVED EQUIPMENT AND SUPPLIES:
1. TRIPLE-FILTRATION HIGH-EFFICIENCY PARTICULATE AIR (HEPA) OR S-CLASS VACUUMS, CAPABLE OF REMOVING 99.97 PERCENT OF PARTICLES 0.3 MICRONS OR LARGER.
2. CLEANING CHEMICALS THAT ARE PH NEUTRAL, STATIC DISSIPATIVE, AND APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS.
3. MATERIAL SAFETY DATA SHEETS MUST BE PROVIDED TO THE OWNER PRIOR TO PERFORMING WORK.
4. CANNED AIR.
5. LINT-FREE MOPS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS. MOPS SHOULD HAVE NONMETAL HANDLES AND SEWN ENDS, TO PREVENT SNAGGING. MOP HEADS SHOULD HAVE LOOPED ENDS, NOT ENDS THAT ARE OPEN OR STRINGY OR BOTH.
6. LINT-FREE, ANTISTATIC WIPES AND TOWELS THAT ARE APPROVED OR QUALIFIED BY COMPUTER HARDWARE MANUFACTURERS.
7. LOW-SPEED FLOOR SCRUBBING MACHINES.
8. ELECTRICAL CORDS THAT ARE IN GOOD CONDITION AND POSSESS APPROPRIATE GROUND CONFIGURATION.
9. A STABLE STEPLADDER WITH NON-MARKING RUBBER FEET.

PART 3 - EXECUTION

3.1 EQUIPMENT CLEANING PROCEDURES

A. A HEPA VACUUM WILL BE USED TO CLEAN THE HORIZONTAL SURFACES OF ALL EQUIPMENT.

B. CLOTHS TREATED WITH ANTISTATIC PROPERTY CHEMICAL WILL BE USED TO WIPE DOWN ALL EXTERNAL SURFACES OF ALL CABINETS, POLYSTYRENE END-ROW SHEETS, SERVERS, NETWORKING DEVICES, AND STORAGE UNITS.

C. CHEMICALS WILL NOT BE SPRAYED DIRECTLY ONTO EQUIPMENT.

D. KEYBOARDS WILL NOT BE TOUCHED DURING CLEANINGS.

E. CLEANING ACTIVITIES SHOULD GENERALLY PROGRESS DOWNWARD FROM THE CEILING AND OUTWARD FROM THE ROOM'S AIR HANDLERS.

3.2 HIGH LEVEL CLEANING PROCEDURES

A. ALL CABLE TRAYS, LADDER RACKS, UNISTRUT, BEAMS, ETC. TO BE BLOWN THROUGH WITH COMPRESSED AIR AND WIPED DOWN WITH APPROPRIATE CLOTHS AND CHEMICALS.

3.3 LOW LEVEL CLEANING PROCEDURES

A. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL RACEWAYS AND CABLE TRAYS THAT ARE SECURED BELOW THE ROOM'S DECK OR CEILING.

B. MAKE NOTE OF ANY UNUSUAL CONDITIONS--LOOSE BRACKETS, DAMAGED CABLE BUNDLES, CONDENSATION, AND SO ON--AND INCLUDE THEM IN THE FINAL REPORT TO BE PROVIDED TO THE CM AND OWNER.

3.4 CLEANING OF TECHNOLOGY CABINETS/RACKS

A. WIPE DOWN THE EXTERNAL SURFACES OF ALL CABINETS USING LINT-FREE CLOTHS TREATED WITH ANTISTATIC CHEMICAL. AVOID DISTURBING PATCH CORDS OR POWER CABLES, TOUCHING KEYBOARDS, MOVING HARDWARE, OR SPRAYING CHEMICALS DIRECTLY ONTO EQUIPMENT.

B. USE CANNED AIR TO DISLODGE DUST IN AREAS THAT CANNOT BE REACHED BY HAND.

3.5 FLOOR SURFACE CLEANING PROCEDURES

A. WHEN CLEANING THE RAISED FLOOR, AVOID DISTURBING ANY CABLES THAT ARE ROUTED THROUGH THE NOTCHED OPENING OF FLOOR TILES.

B. VACUUM SURFACE DUST AND PARTICLES FROM THE TOP OF ALL ACCESSIBLE PORTIONS OF THE FLOOR, INCLUDING BLANK, NOTCHED, AND PERFORATED FLOOR TILES.

C. TREAT SMUDGES, STAINS, BLACK MARKS, AND SO ON, WITH AN APPROVED SOLUTION AND SCRUB WITH A MEDIUM-GRADE SCRUB PAD. USE AN APPROVED FLOOR MACHINE TO CLEAN ALL ACCESSIBLE PORTIONS OF THE FLOOR.

D. LAST, MOP THE FLOOR WITH A DAMP--NOT WET--MOP USING CLEAN, WARM WATER. USE A TWO-BUCKET SYSTEM, ONE FOR MOPPING AND ONE FOR RINSING. CHANGE WATER FREQUENTLY IN BOTH BUCKETS.

END OF SECTION

3 SECTION 27 05 03 TECHNOLOGY SPACE CLEANING

SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. JPMC'S REAL ESTATE GROUP IS RESPONSIBLE FOR PROPER INSTALLATION OF A GROUNDING (EARTHING) BACKBONE THAT HAS BEEN DESIGNED AND INSTALLED IN ACCORDANCE WITH J-STD-607 OR EQUIVALENT REGIONAL STANDARD. IF SUCH GROUNDING (EARTHING) BACKBONE DOES NOT APPEAR TO BE IN PLACE, CONTRACTOR SHALL INFORM OPR, WHO WILL TAKE ACTION AS APPROPRIATE.

B. ALL BONDING AND GROUNDING (EARTHING) SHALL TRACK METHODS AND PROCEDURES DESCRIBED IN J-STD-607 OR EQUIVALENT REGIONAL STANDARD.

PART 2 - PRODUCTS

2.1 MATERIALS

A. COMPONENTS: SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.

B. ALL GROUNDING/BONDING CONDUCTORS SHALL BE COPPER (NO ALUMINUM ALLOWED).

PART 3 - EXECUTION

3.1 SEE THE GROUNDING SCHEMATIC ON DRAWINGS FOR CONTRACTOR REQUIREMENTS.

END OF SECTION

4 SECTION 27 05 26 - GROUNDING AND BONDING FOR STRUCTURED CABLING

SECTION 27 05 53 - IDENTIFICATION FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. SYSTEM ACCEPTANCE SHALL BE WITHHELD UNTIL OPR HAS REVIEWED AND APPROVED ALL LABELING AS DEFINED ELSEWHERE IN THIS SECTION.

B. IN CASES WHERE 100 PERCENT OF THE CABLING INFRASTRUCTURE IS NEW, ALL LABELING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION 27 05 53. IN CASES WHERE NEW INFRASTRUCTURE IS BEING ADDED TO AN EXISTING (LEGACY') INFRASTRUCTURE THAT FOLLOWS AN EARLIER VERSION JPMC CABLING STANDARD, CONTRACTOR SHALL FURNISH TO OPR A DETAILED DESCRIPTION OF DEVIATIONS FROM THE PREVAILING RETAIL STRUCTURED CABLING STANDARD, AND UPON OPR WRITTEN APPROVAL, FOLLOW INSTEAD THE LEGACY LABELING STANDARD.

C. BECAUSE THE CABLE INFRASTRUCTURE IS A COMPREHENSIVE, INTEGRATED DESIGN, PROPER AND COMPREHENSIVE LABELING IS CRITICAL. TO ENSURE THE SUCCESS OF THIS COMPONENT OF THE SYSTEM DESIGN, ALL LABELS SHALL BE FULLY COMPLIANT WITH THE REQUIREMENTS SET FORTH IN THIS SECTION. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL LABELS AND LABEL HOLDERS AS SPECIFIED HEREIN.

D. ALL LABELS SHALL BE INSTALLED IN ACCORDANCE WITH INFORMATION CONTAINED IN PROJECT DRAWINGS AND AS SPECIFIED IN THIS SECTION.

E. THIS SPECIFICATION SETS FORTH GENERAL REQUIREMENTS FOR INFRASTRUCTURE IDENTIFICATION, NOT SPECIFIC NUMBERING SCHEMES. BEFORE THE LABELING PROCESS BEGINS, CONTRACTOR SHALL SUBMIT A WRITTEN PLAN THAT INCLUDES SPECIFIC NUMBERING SEQUENCES FOR EACH TELECOMMUNICATIONS ELEMENT, AND SHALL NOT PROCEED WITH THE PLAN UNTIL OPR FURNISHES WRITTEN APPROVAL OF SAID PLAN WHICH MAY CONTAIN STANDARDS-BASED MODIFICATIONS.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. ALL LABELS SHALL BE INDELIBLE, PRE-PRINTED (NOT HAND-WRITTEN), AND PERMANENT, USING BRADY PRINTER OR EQUIVALENT, ARIAL FONT OR EQUIVALENT. THE TEXT COLOR SHALL BE BLACK WITH A WHITE BACKGROUND, UNLESS AFFIXED ON A BLACK SURFACE, IN WHICH CASE THE LABEL BACKGROUND SHALL BE BLACK AND TEXT SHALL BE WHITE.

PART 3 - EXECUTION

3.1 SYSTEM DESCRIPTION

A. THE FOLLOWING INFRASTRUCTURE COMPONENTS SHALL BE INCLUDED AND FULLY LABELED IN THE IDENTIFICATION SCHEMA:
1. INFORMATION OUTLET FACEPLATES
2. HORIZONTAL CABLING
3. COPPER PATCH PANELS
4. BACKBONE CABLING
5. FIBER PATCH PANELS
6. RACKS
7. POWER DISTRIBUTION UNITS AND POWER STRIPS
8. IT EQUIPMENT ASSET TAGS
9. CONDUIT AND SLEEVE PATHWAYS

3.2 INFORMATION OUTLET FACEPLATES

A. EACH INFORMATION OUTLET IDENTIFIER SHALL BE NUMBERED IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL, USING PAPER LABELS AND CLEAR WINDOWS INCLUDED WITH EACH APPROPRIATE INFORMATION OUTLET FACEPLATE. WHERE CLEAR WINDOWS ARE NOT APPLICABLE, CONTRACTOR SHALL COORDINATE A COMPLIANT LABEL THAT IS RESISTANT TO DAMAGE OR DEGRADATION OVER TIME (E.G. VINYL). TEXT HEIGHT AND POSITIONING SHALL BE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

B. VOICE AND DATA OUTLETS SHALL BE LOCATED IN EACH FACEPLATE IN ACCORDANCE WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

3.3 HORIZONTAL CABLING

A. LABELS TO BE AFFIXED AT EVERY USED PATCH PANEL AND ON EACH HORIZONTAL CABLE ON BOTH ENDS.
1. NOMENCLATURE: X#Y##
a. WHERE X = RMER/RTR DESIGNATION, USE "M" FOR RMER AND "T" FOR RTR.
b. WHERE # = RACK DESIGNATION (NUMERIC).
c. WHERE Y = A SINGLE SEQUENTIAL ALPHA CHARACTER, BEGINNING WITH "A", IDENTIFYING THE PATCH PANEL.
d. WHERE ## = TWO-DIGIT SEQUENTIAL NUMBER BEGINNING WITH "01", IDENTIFYING PATCH PANEL PORT NUMBER.

B. COPPER PATCH PANEL PORT IDENTIFICATION SHALL BE FULLY COMPLIANT WITH THE FACEPLATE LABELING CONFIGURATION DETAIL.

C. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.

D. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

E. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.

3.4 BACKBONE CABLING

A. THE CABLE SHALL BE LABELED ON BOTH ENDS.

B. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = X-Y-ZZ-##/##-TTT
1. WHERE X = RMER OR RTR DESIGNATION.
2. WHERE # = RACK DESIGNATION.
3. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
4. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER.
5. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

C. WHERE ROUTE DIVERSITY IS EMPLOYED DESIGNATION STRIPS LOCATED ON TERMINATION PANELS FOR EACH ROUTE SHALL BE OF DISTINCTLY DIFFERENT COLORS.

3.5 FIBER PATCH PANELS

A. THE PATCH PANEL SHALL BE LABELED ON THE FRONT DOOR.
1. NOMENCLATURE: ZZ
a. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM THE UPPER LEFT CORNER WHERE THE PANEL IS INSTALLED.
b. WITHIN THE PATCH PANEL (BEHIND THE FRONT DOOR).
c. NOMENCLATURE: SOURCE = X-#-ZZ AND DESTINATION = ZZ-##/##-TTT
d. WHERE X = RMER DESIGNATION, WHICH IS "M".
e. WHERE # = RACK DESIGNATION.
f. WHERE ZZ = PATCH PANEL DESIGNATION (RACK UNIT # FROM UPPER LEFT CORNER WHEN PANEL IS INSTALLED).
g. WHERE ##/## = STARTING STRAND NUMBER/END STRAND NUMBER.
h. WHERE TTT = FIBER TYPE, OM2, OM3, OR OM4 FOR MULTIMODE OR OS2 FOR SINGLE MODE.

3.6 RACKS

A. LABELS TO BE AFFIXED TO TOP FRONT AND TOP REAR OF RACK
1. NOMENCLATURE: X#
a. WHERE X = RMER/RTR DESIGNATION, USE "M" FOR RMER AND "T" FOR RTR.
b. WHERE # = RACK DESIGNATION (NUMERIC)
c. TYPE: 1.5 IN. (38 MM) TEXT; MACHINE PRINTED TEXT. BLACK TEXT ON WHITE BACKGROUND.

3.7 POWER DISTRIBUTION UNITS AND POWER STRIPS

A. POWER DISTRIBUTION UNITS AND STRIPS SHALL BE LABELED WITH THE BREAKER PANEL ID AND CIRCUIT NUMBER IT IS SERVED FROM.

3.8 IT EQUIPMENT ASSET TAGS

A. ALL POWERED IT EQUIPMENT, ASIDE FROM AUDIO-VISUAL OR CARRIER EQUIPMENT MUST BE LABELED WITH THE DEVICES HOSTNAME AND A YELLOW ASSET TAG ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. A MACHINE GENERATED LABEL INDICATING THE SERIAL NUMBER OF THE DEVICE SHALL ALSO BE PLACED ON THE FRONT (COLD AISLE) SIDE OF THE DEVICE. ALL RACKS MUST HAVE A YELLOW ASSET TAG AT THE TOP FRONT IN A VISIBLE AREA THAT CAN BE EASILY ACCESSED WITH A BARCODE SCANNER.

B. THESE ASSET TAGS WILL BE PROVIDED BY SOMEONE OTHER THAN THE STRUCTURED CABLING CONTRACTOR.

3.9 CONDUIT AND SLEEVE PATHWAYS

A. CONDUIT PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE CONDUIT ITSELF NEAR THE END.
2. NOMENCLATURE <SIZE>.<PATH A/B>TO<DISTANT END ROOM ID>. EXAMPLE: 4" A TO I-1

B. SLEEVE PATHWAY LABELING SHALL BE LABELED AS FOLLOWS.
1. 1.5 IN. (38 MM) TALL TEXT PLACED IN VISIBLE LOCATION ON PLASTIC BUSHING OR ON THE SLEEVE ITSELF NEAR BOTH ENDS.
2. NOMENCLATURE <SIZE>.<PATHWAY TYPE>. EXAMPLE: 4" SLEEVE

END OF SECTION

5 SECTION 27 05 53 IDENTIFICATION FOR STRUCTURED CABLING

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SECTION 27 05 28 - PATHWAYS FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SECTION SPECIFIES TECHNOLOGY INFRASTRUCTURE EQUIPMENT INCLUDING THE FOLLOWING:

1. J-HOOKS.
2. CONDUITS AND BOXES.
3. INNERDUCT
4. PULL BOXES.
5. FIRE-RATED SLEEVES.
6. MISC. ACCESSORIES.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS

A. NEW MATERIALS

1. ALL CABLE AND MATERIALS SHALL BE NEW, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR. NEW EQUIPMENT AND MATERIALS SHALL BE WITHOUT BLEMISH OR DEFECT. NEW EQUIPMENT AND MATERIALS SHALL BE UNDERWRITERS LABORATORIES, INC. (U.L.) LABELED AND/OR LISTED WHERE SPECIFICALLY CALLED FOR, OR WHERE NORMALLY SUBJECT TO SUCH U.L. LABELING AND/OR LISTING SERVICES.

B. EQUIVALENTS

1. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PRODUCTS INSTALLED AT THIS FACILITY ARE COMPATIBLE WITH THE APPLICATION. THE OWNER MAKES NO REPRESENTATION REGARDING THE ACCURACY OF THE PART NUMBERS LISTED.

C. SUBSTITUTIONS

1. MATERIALS SHALL BE AS LISTED. NO SUBSTITUTIONS ARE ALLOWED WITHOUT WRITTEN CONSENT FROM THE JPMC STRUCTURED CABLING ENGINEERING TEAM. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR VIA 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:

1. ABOVE ALL ACCESSIBLE CEILINGS, J-HOOKS ARE REQUIRED FOR PROPER CABLE SUPPORT.
2. J-HOOKS SHALL BE SPECIFICALLY DESIGNED FOR INTERIOR USE WITH DATA CABLES.
3. J-HOOKS SHALL BE PROVIDED AS REQUIRED WITH ALL THE MANUFACTURER'S RECOMMENDED INSTALLATION HARDWARE FOR THE INSTALLATION APPLICATION.
4. APPROVED J-HOOK MANUFACTURERS ARE COOPER, CADDY, OR PANDUIT.

B. SEE THE OPEN CABLE SUPPORT DETAIL ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR J-HOOK MOUNTING COMPONENTS.

2.3 CONDUITS AND BOXES

A. CONDUIT

1. ALL WIRING IN THE BUILDING INTERIOR, INCLUDING HORIZONTAL DISTRIBUTION, VERTICAL RISER CONDUITS AND AUXILIARY WIRING MAY BE RUN IN EMT CONDUIT UNLESS OTHERWISE SPECIFIED. CONDUIT SIZES LARGER THAN 4" SHALL BE RIGID METALLIC CONDUIT.
2. EMT SHALL NOT BE USED IN POURED CONCRETE, UNDERGROUND, IN UTILITY TUNNELS OR EXPOSED IN MECHANICAL EQUIPMENT ROOM BELOW 48".
3. ALL EMT CONNECTORS AND COUPLINGS SHALL BE OF THE SETSCREW TYPE. ALL FITTINGS SHALL BE STEEL. NO DIE CAST FITTINGS WILL BE ALLOWED.

B. BOXES

1. THE OUTLET BACKBOXES SHALL BE 5" SQUARE BY 2.875" DEEP WITH A SINGLE GANG REDUCER AND INTEGRAL CABLE MANAGEMENT. THE DEPTH OF THE RAISED SINGLE GANG REDUCER SHALL BE DETERMINED BY THE THICKNESS OF THE WALL MATERIAL THAT THE OUTLET BOX WILL BE INSTALLED WITHIN. THE CONTRACTOR SHALL COORDINATE THIS DIMENSION WITH THE GENERAL CONTRACTOR.
2. SEE THE SYMBOLS LIST ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS.

2.4 INNERDUCT

A. INNERDUCT IS A NONMETALLIC RACEWAY PLACED WITHIN A LARGER RACEWAY. FOR THE PURPOSES OF THIS SECTION, FOR THIS PROJECT, FABRIC INNERDUCT SHALL BE USED. HARD SIDED INNERDUCT SHALL NOT BE USED UNLESS PERMISSION IS EXPLICITLY PROVIDED BY THE STRUCTURED CABLING ENGINEER. IF MULTIPLE CABLES ARE TO BE PULLED THROUGH A SINGLE INNERDUCT CELL, THEY SHOULD BE PULLED AT THE SAME TIME. FABRIC INNERDUCT PROVIDES MULTIPLE SLEEVES WITHIN CONDUITS AND EMPTY CELLS SHOULD BE PROVIDED FOR FUTURE GROWTH.

1. FABRIC INNERDUCT SHALL BE INSTALLED WITHIN CONDUIT.
2. CONTRACTOR SHOULD COORDINATE A SITE VISIT FROM THE FABRIC INNERDUCT MANUFACTURER TO OVERSEE THE INSTALLATION WHEN 1) THE CONTRACTOR HAS NEVER UTILIZED THIS PRODUCT IN THE PAST; OR 2) WHEN THE AGGREGATE LENGTH OF THE INSTALLATION EXCEEDS 1,500 M (5,000 FT.).

B. FABRIC INNERDUCT SIZING

1. THE FABRIC INNERDUCT SHALL BE SIZED FOR THE CONDUIT IT IS BEING INSTALLED WITHIN.

C. FABRIC INNERDUCT

1. STANDARD OUTDOOR FABRIC INNERDUCT: MICRO (33MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE.
2. DETECTABLE OUTDOOR FABRIC INNERDUCT: MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL POLYESTER/NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE, AND A SOLID COPPER, POLYVINYL COLOR COATED CONDUCTOR (19AWG MINIMUM) FOR TRACING AND RATED FOR A MINIMUM OF 6 AMPS AND 600 VOLTS. CONDUCTOR SHALL BE PLACED IN THE SIDEWALL EDGE FOLD OF THE TEXTILE SLEEVE. DETECTABLE FABRIC INNERDUCT SHALL BE UTILIZED WHEN RUNNING FIBER OPTIC CABLING WITHIN NON-METALLIC UNDERGROUND CONDUITS.
3. INDOOR FABRIC INNERDUCT (RISER-LISTED): MICRO (32MM), 2-INCH, 3-INCH AND 4-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 1250 LB. POLYESTER FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR GENERAL APPLICATIONS.
4. PLENUM-LISTED FABRIC INNERDUCT: MICRO (32MM), 2-INCH AND 3-INCH SINGLE OR MULTI-CELL NYLON FABRIC INNERDUCT CONTAINING 200LB NYLON-RESIN FLAT WOVEN PULL TAPE WHICH MEETS UL2024A FOR FLAME PROPAGATION AND SMOKE DENSITY VALUES FOR USE IN AIR HANDLING SPACES.

D. FABRIC INNERDUCT FITTINGS

1. CONDUIT PLUGS: COMPRESSION-TYPE CONDUIT PLUGS WITH LOCKING NUTS FOR SEALING AND SECURING ONE OR MORE FABRIC INNERDUCTS WITHIN A 4-INCH INSIDE DIAMETER CONDUIT, E.G.:
   a. 4-INCH PLUG WITH NINE HOLES FOR CABLES IN A 3 PACK (9-CELL) CONFIGURATION
2. TERMINATION BAGS: INFLATION-TYPE BAGS FOR SEALING AND SECURING AROUND ONE OR MORE FABRIC INNERDUCTS AND CABLES WITHIN 2-INCH OUTSIDE DIAMETER OR LARGER CONDUIT.

2.5 PULL BOXES

A. PULL BOXES SHALL BE MANUFACTURED FOR USE AS A JUNCTION BOX AND PULL BOX IN COMMERCIAL AND GENERAL INDUSTRIAL APPLICATIONS.

B. COVERS SHALL BE SECURED TO THE ENCLOSURE BODY WITH PLATED SCREWS THROUGH KEYHOLE SLOTS PROVIDED IN THE COVER.

C. FINISH SHALL BE A PHOSPHATE UNDERCOAT WITH ANSI 61 GRAY ACRYLIC FINISH.

D. PULL BOXES SHALL COMPLY WITH NEMA STANDARDS TYPE 1.

E. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

2.6 FIRE-RATED SLEEVES

A. CABLES PASSING THROUGH RMER/RTR FLOORS OR WALLS SHALL PASS THROUGH FIRE-RATED WIRING DEVICES WHICH CONTAIN AN INTUMESCENT INSERT MATERIAL THAT ADJUSTS AUTOMATICALLY TO CABLE ADDITIONS OR SUBTRACTIONS.

B. THE DEVICE (PER CODE REQUIREMENTS) SHALL INCLUDE BOTH INTERNAL AND EXTERNAL FIRESTOPPING.

C. CABLES PENETRATING THROUGH RMER/RTR FLOORS OR WALLS SHALL UTILIZE FIRE-RATED PATHWAY DEVICES CAPABLE OF PROVIDING AN F RATING EQUAL TO THE RATING OF THE BARRIER IN WHICH THE DEVICE IS INSTALLED.

D. THE DEVICE SHALL BE TESTED FOR SMOKE LEAKAGE (L RATING) AND SHALL NOT REQUIRE THE USE OF ANY OPTIONAL SEALING MATERIALS TO ACHIEVE THE PUBLISHED RATING.

E. THE DEVICE SHALL UTILIZE A FIRE AND SMOKE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE ADDITION OR REMOVAL OF CABLES.

F. WIRE DEVICES SHALL BE OF A SUFFICIENT SIZE TO ACCOMMODATE THE QUANTITY AND SIZE OF DATA CABLES REQUIRED AND SHALL BE SUITABLE FOR USE WITH NEW OR EXISTING CABLE INSTALLATIONS.

G. THE INSTALLED DEVICE (IN NORMAL USE) SHALL REQUIRE NO MAINTENANCE AND SHALL ACCOMMODATE FUTURE CABLE CHANGES WITHOUT MECHANICAL ADJUSTMENT AND/OR REMOVAL OR REPLACEMENT OF PROTECTIVE MATERIALS.

H. WIRE DEVICES TO BE PROVIDED WITH STEEL WALL PLATES ALLOWING FOR SINGLE OR MULTIPLE DEVICES TO BE GANGED TOGETHER.

I. THE DEVICE SHALL BE MODULAR AND SHALL PROVIDE MECHANICAL INSTALLATION OPTIONS FOR COMMON WALL AND FLOOR CONSTRUCTIONS AS WELL AS COMMON CONSTRUCTION CONDITIONS INCLUDING OVER-SIZED OR DAMAGED OPENINGS OR EXISTING SLEEVES.

J. INSTALL RADIUS CONTROL MODULES (RCM) ON ALL HORIZONTAL DEVICES. THE RCM'S PROVIDE A 1" MINIMUM BENDING RADIUS FOR CABLES.

K. COMPONENTS

WALL OR FLOOR SLEEVES: SPECIFIED TECHNOLOGIES INC. EZ-PATH SERIES

CABLE RADIUS CONTROL WATERFALLS: SPECIFIED TECHNOLOGIES INC. RCM SERIES

2.7 MISCELLANEOUS ACCESSORIES

A. PULL STRING

1. PULL STRINGS: CONSTRUCTED OF SYNTHETIC FIBER.

B. PULL TAPE

1. PULL TAPE: MEASURING AND PULLING TAPE CONSTRUCTED OF SYNTHETIC FIBER, PRINTED WITH ACCURATE SEQUENTIAL FOOTAGE MARKS. COLOR-CODED.

C. PENETRATION SEALING MATERIALS

1. DUCT WATER SEAL: PRODUCTS SUITABLE FOR CLOSING UNDERGROUND AND ENTRANCE CONDUIT OPENINGS WHERE INNERDUCT OR CABLE IS INSTALLED, TO PREVENT ENTRY OF GASES, LIQUIDS, OR RODENTS INTO THE STRUCTURE.

PART 3 - EXECUTION

3.1 HANGERS AND SUPPORTS

A. J-HOOKS SHALL BE INSTALLED WITHIN (1) ONE FOOT OF THE BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND WITHIN (1) ONE FOOT OF ANY BEND GREATER THAN 60 DEGREES.

B. J-HOOKS SHALL BE INSTALLED WITH A MAXIMUM CENTER TO CENTER DISTANCE OF (4) FOUR FEET.

C. ALL J-HOOKS SHALL BE ATTACHED SECURELY TO THE CEILING JOISTS OR CONCRETE DECK ABOVE UTILIZING THE MANUFACTURER'S RECOMMENDED HARDWARE AND INSTALLATION PRACTICES. CONTRACTOR SHALL UTILIZE UNISTRUT AND THREADED ROD ASSEMBLIES TO MAINTAIN THE (4) FOUR-FOOT CENTER TO CENTER REQUIREMENT BETWEEN CEILING JOIST MEMBERS AS REQUIRED.

3.2 CONDUIT AND BOXES

A. ALL CONDUITS ENTERING CABINETS, PULL BOXES, JUNCTION BOXES OR OUTLET BOXES SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

B. THE ENDS OF ALL CONDUITS UTILIZED FOR COMMUNICATIONS CABLING SHALL BE PROVIDED WITH NYLON PUSH-ON BUSHINGS AND A PULL STRING PROVIDED THROUGHOUT.

C. EXTERIOR CONDUITS FOR TELECOMMUNICATIONS SERVICE PROVIDERS (CARRIERS) SHALL HAVE A PULL TAPE INSTALLED BY THE ELECTRICAL CONTRACTOR.

D. ALL EXTERIOR CONDUITS SHALL BE SEALED AT THE OPENING WITHIN THE BUILDING BY THE ELECTRICAL CONTRACTOR.

E. ALL CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO (2) 90-DEGREE BENDS PER CONDUIT RUN. WHEN MORE BENDS ARE NECESSARY IN A SINGLE RUN A PULL BOX SHALL BE INSTALLED. PULL BOXES SHALL NOT BE INSTALLED IN PLACE OF A 90-DEGREE BEND. PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'.

F. ALL CONDUITS, EXCEPT IN CONCRETE SLAB OR EARTH, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE COLUMN LINES OF THE BUILDING.

G. CONDUITS THAT ARE NOT INSTALLED PLUMB AND ROUTED PERPENDICULAR TO THE STRUCTURAL COLUMN SUPPORTS OF THE BUILDING WILL NOT BE ACCEPTED.

H. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS.

I. ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED BY USE OF PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE A RIGID INSTALLATION. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READILY REMOVAL OF OTHER PIPE FOR REPAIRS.

J. UNLESS OTHERWISE NOTED, INSTALL ALL OUTLET BOXES VERTICALLY.

K. INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS INDICATED ON THE PLANS. COMMUNICATION OUTLET BOXES ADJACENT TO ELECTRIC OUTLETS SHALL BE INSTALLED AT THE SAME MOUNTING HEIGHT. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

3.3 PULL BOXES

A. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS.

B. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.

C. ALL CONDUITS ENTERING THE PULL BOX SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

D. PULL BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT PROVIDES EASY ACCESS INTO THE INSTALLED ENCLOSURE THROUGH THE REMOVABLE COVER.

E. UNDER NO CIRCUMSTANCE SHALL A PULL BOX BE INSTALLED WITH THE COVER FACING UP. UNLESS CONDUITS ENTERING THE BOX MUST BE STACKED VERTICALLY, ALL PULL BOXES SHALL BE INSTALLED WITH THE COVER FACING DOWN.

F. PULL BOX LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE BETWEEN THE PULL BOX COVER AND ANY OTHER OBJECT. THE MINIMUM CLEARANCE REQUIRED SHALL BE SIX TIMES THE DIAMETER OF THE LARGEST CONDUIT ENTERING THE PULL BOX.

END OF SECTION

6 SECTION 27 05 28
PATHWAYS FOR STRUCTURED CABLING

SECTION 27 11 00 - EQUIPMENT ROOM FITTINGS FOR STRUCTURED CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. THIS SECTION INCLUDES RMER/RTR EQUIPMENT RACKS, CABLE MANAGERS, LADDER RACKS, POWER DISTRIBUTION UNITS, PLYWOOD BACKBOARDS, AND ASSOCIATED COMPONENTS.

B. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 REQUIREMENTS

A. IN LOCATIONS THAT REQUIRE SEISMIC BRACING, CONSULT WITH THE OPR FOR GUIDANCE AND PRODUCT REQUIREMENTS.

B. AS PART OF THEIR BASE QUOTATION, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MISCELLANEOUS HARDWARE (E.G. CAGE NUTS, SCREWS), REQUIRED TO ACCOMPLISH A COMPLETE WORKING INSTALLATION.

C. WHERE ONE EQUIPMENT RACK IS INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH SIDES OF THE EQUIPMENT RACK.

D. WHERE TWO EQUIPMENT RACKS ARE INSTALLED, MOUNT ONE 6" VERTICAL CABLE MANAGER ON BOTH ENDS OF THE ROW, AND ONE 10" VERTICAL CABLE MANAGER BETWEEN RACKS.

E. WHERE A WALL MOUNTED EQUIPMENT CABINET IS INSTALLED, PROVIDE INTERNAL VERTICAL CABLE MANAGERS.

2.2 MATERIALS

A. SEE THE RACK ELEVATIONS AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:

1. EQUIPMENT RACK AND ASSOCIATED COMPONENTS
2. CABLE MANAGEMENT - RACK MOUNTED
3. LADDER RACK AND ASSOCIATED COMPONENTS
4. POWER DISTRIBUTION UNITS (PDUS) FOR RMERS AND RTRS
5. POWER DISTRIBUTION UNITS (PDUS) FOR STAND ALONE ATM LOCATIONS
6. EQUIPMENT CABINET AND ASSOCIATED COMPONENTS
7. CABLE MANAGEMENT - CABINET MOUNTED
8. POWER STRIPS FOR WALL MOUNTED CABINETS

B. PLYWOOD BACKBOARDS

1. PROVIDE VOID-FREE, FIRE-RATED PLYWOOD MOUNTED VERTICALLY ON THE WALL. PLYWOOD BOARDS SHALL BE ¾" THICK, 8' TALL, AND WIDTH AS SHOWN ON THE PLANS TO FIT THE ROOM.
2. EITHER FIRE RATED (WITH A UL FR-S CLASSIFICATION), OR IF NON-FIRE-RATED - AND IF ACCEPTABLE TO THE AHJ - COVERED WITH TWO COATS OF FIRE-RETARDANT PAINT ON BOTH SIDES AND EDGES. FOR FIRE-RATED PLYWOOD THE CLASSIFICATION STAMP MUST NOT BE OBSCURED.

PART 3 - EXECUTION

3.1 INSTALLATION

A. ALL RELAY RACKS, LADDER RACK, AND CABLE TRAY SHALL BE BONDED TO GROUND IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS, AND PREVAILING CODES AND STANDARDS. SEE SECTION 27 05 26 FOR FURTHER GROUNDING AND BONDING INFORMATION.

B. RELAY RACKS SHALL BE ASSEMBLED AND MOUNTED IN LOCATIONS SHOWN IN THE DRAWINGS AND AS DESCRIBED HEREIN. EACH RACK SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EACH RACK SHALL BE MOUNTED SUCH THAT THE SIDE RAILS ARE PLUMB. BOLTS SHALL BE TIGHTENED TO THE EXTENT THAT IT HOLDS THE MOUNTING HARDWARE FIRMLY, BUT NOT SO TIGHT AS TO DISTORT THE HARDWARE OR STRIP THE THREADS. EQUIPMENT RACKS ARE TO BE CO-LOCATED WITH POWER OUTLETS TO ALLOW FOR EASY CONNECTION OF RACK-MOUNTED EQUIPMENT TO THE POWER SYSTEM. RACKS AND CABLE MANAGEMENT HARDWARE SHALL BE SECURELY BOLTED TOGETHER.

C. THE RACK SHOULD BE ATTACHED TO RMER/RTR FLOORS WITH ⅜ IN. LAG SCREWS OR EQUIVALENT HARDWARE. THE FLOOR UNDER THE RACK SHOULD BE LEVEL WITHIN 3/16 IN. USE A FLOOR-LEVELING CEMENT COMPOUND IF NECESSARY.

D. CABLE TRAYS MUST BE INSTALLED IN A MANNER THAT ALLOWS AT LEAST 305 MM (12 IN) OF CLEARANCE ABOVE THE TOP OF THE TRAY.

E. CABLE TRAYS MUST BE INSTALLED A MINIMUM OF 101.6 MM - 152.4 MM (4 IN - 6 IN) ABOVE CABINETS AND RACKS, WITH 304.8 MM (12 IN) BEING PREFERRED.

F. METALLIC CABLE TRAY MUST BE COMPLIANT WITH THE NEMA VE-1 STANDARD. INSTALLATION SHOULD FOLLOW THE GUIDELINES AND RECOMMENDATIONS - AS APPLICABLE - IN THE NEMA VE-2 STANDARD.

G. ALL METALLIC LADDER RACKS MUST BE BONDED TO GROUND PER NEC REQUIREMENTS. WHEN SECTIONS ARE NOT MECHANICALLY CONTINUOUS, BONDING CONDUCTORS MUST BE INSTALLED ACROSS THE SECTIONS. THIS INCLUDES LADDER RACK WHOSE SECTION CONNECTING HARDWARE IS NOT APPROVED AS A MEANS FOR PROVIDING GROUND CONTINUITY.

H. A MINIMUM OF 915 MM (3 FT) OF CLEARANCE IN FRONT AND IN BACK OF RACKS. MORE CLEARANCE MUST BE PROVIDED WHEN DEEMED PRUDENT OR NECESSARY FOR USE, INSTALLATION, AND REMOVAL OF EQUIPMENT, OR TO MEET THERMAL REQUIREMENTS.

I. A MINIMUM OF 1219 MM (3 FT) OF CLEARANCE AT THE END OF A ROW OF RACKS OR CABINETS.

J. A MINIMUM OF 305 MM (1 FT) ADDITIONAL CLEARANCE FROM A CARRIER (SERVICE PROVIDER) WALL FIELD BEYOND THE MINIMUMS SPECIFIED FOR RACKS AND CABINETS.

K. AT LEAST 610 MM (2 FEET) OF CLEARANCE ABOVE RACKS AND CABINETS, WITH CABLE SUPPORT SYSTEMS BEING THE ONLY ALLOWABLE EXCEPTION.

END OF SECTION

7 SECTION 27 11 00 - EQUIPMENT ROOM
FITTINGS FOR STRUCTURED CABLING

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BUILDING ID: 601795

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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. 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.

E. 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 WITH 3-CELL FABRIC INNERDUCT. ONCE THE CONDUIT ENTERS THE BUILDING, TRANSITION TO RIGID METALLIC CONDUIT (RMC) AND EXTEND TO THE RMER (IF NEEDED). 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.

F. 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.

G. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 GENERAL FIBER CABLING REQUIREMENTS

A. CABLE RATING
   1. LOCAL OR NATIONAL CODES MAY REQUIRE SPECIFIC CABLE GRADING IN SPECIFIC APPLICATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO INSTALL CABLE THAT IS APPROPRIATE TO THE ENVIRONMENT. IF CONTRACTOR INSTALLS CABLE THAT IS INAPPROPRIATE TO THE ENVIRONMENT (E.G. RISER-RATED CABLE IN SPACES THAT REQUIRE PLENUM CABLE), CONTRACTOR SHALL BE EXPECTED TO REMOVE THE INAPPROPRIATE CABLE AND INSTALL APPROPRIATE CABLE AT THEIR SOLE EXPENSE.

B. TERMINATION TYPE
   1. ONLY FACTORY TERMINATED FIBER PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. FIBER PATCH CORDS CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER IS NOT PERMISSIBLE.
   2. FIELD-TERMINATED CONNECTORS FOR THE FIBER BACKBONE IS THE PREFERRED TERMINATION METHOD. FUSION-SPLICED OR CORNING UNICAM TERMINATIONS ARE PERMITTED.
   3. MULTIMODE & SINGLE MODE FIBER SHALL BE TERMINATED INTO LC CONNECTORS UNLESS NOTED OTHERWISE.

C. CABLE JACKETING
   1. CABLE JACKETING MAY OR MAY NOT BE ARMORED, DEPENDING UPON THE ENVIRONMENT AND THE APPLICATION.
      a. NON-ARMORED CABLE SHALL BE USED WHEN THE FIBER WILL BE INSTALLED WITHIN CONDUIT OR FOR A POINT-TO-POINT CONNECTION WITHIN THE RMER.
      b. ARMORED CABLE SHALL BE USED WHEN THE FIBER IS NOT INSTALLED WITHIN CONDUIT.

D. CABLE GRADE
   1. OM4 MULTIMODE BACKBONE FIBER SHALL BE USED FOR CABLE DISTANCES UP TO 300M (984FT.).
   2. OS2 SINGLE MODE BACKBONE FIBER SHALL BE USED FOR DISTANCE GREATER THAN 300M (984FT.) OR FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.
   3. SINGLE MODE & CATEGORY 6 SHALL BE USED FOR TELECOMMUNICATIONS CARRIER CIRCUIT EXTENSIONS.

2.2 MATERIALS

A. SEE THE CABLE SCHEDULE AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
   1. SINGLE MODE FIBER MATERIALS (FOR EXTENSION OF CARRIER CIRCUIT)
   2. FIBER TERMINATION PANELS.
   3. MULTIMODE FIBER MATERIALS (FOR BACKBONE TO A RTR IF APPLICABLE)

PART 3 - EXECUTION

3.1 GENERAL CABLING INSTALLATION

A. SLEEVES SHALL NOT BE OVER-POPULATED WITH CABLES. SUFFICIENT SPARE CAPACITY SHALL BE ALLOWED IN EACH SLEEVE TO ACCOMMODATE APPROPRIATE FIRESTOPPING MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND THE UL FIRE RESISTANCE DIRECTORY. NOTE THAT MANUFACTURERS TYPICALLY SPECIFY A 20% TO 40% FILL FOR THEIR PRODUCTS.

B. MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII SHALL BE COMPLIED WITH AT ALL TIMES. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES SO AS TO ENSURE A PROFESSIONAL APPEARANCE, RUN STRAIGHT, LEVEL, AND ALIGNED WITH BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE, BEARING IN MIND MANUFACTURER'S RECOMMENDED BEND RADII.

C. CONTRACTOR SHALL FURNISH AND INSTALL ADEQUATE CABLE STRAIN RELIEF (E.G. CABLE DROPOUTS) TO ACCOMMODATE THE ANTICIPATED MAGNITUDE OF CABLING. WHEREVER FIBER AND COPPER CABLES ARE SEGREGATED, DEDICATED MULTIMODE STRAIN RELIEF SHALL BE PROVIDED, INCLUDING ADEQUATE PROVISION FOR CABLE ROUTE DIVERSITY WHERE APPLICABLE.

3.2 FIBER CABLING INSTALLATION

A. AFTER FIBER CABLE HAS BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THIS STANDARD, ALL CONNECTOR DUST COVERS SHALL BE SECURELY RESTORED.

B. EMPTY ADAPTER PANEL PORTS SHALL BE EQUIPPED WITH BLANK PANELS.

C. ALL FIBER STRANDS ARE TERMINATED INTO LC PATCH PANELS AT BOTH ENDS UNLESS NOTED OTHERWISE.

D. IN SPACES WHERE ANY AIRBORNE DUST OR CONTAMINANTS MAY BE PRESENT, ESPECIALLY DURING CONSTRUCTION, CONTRACTOR SHALL FULLY AND PROPERLY PROTECT ANY AND ALL CONNECTORIZED CABLES TO AVOID TRANSMISSION PERFORMANCE DEGRADATION ASSOCIATED WITH DUST COMING IN CONTACT WITH CONNECTOR CONTACT POINTS. IF AT ALL POSSIBLE, AND WHERE ALLOWED BY THE PROJECT TIMELINE, CONTRACTOR'S FIRST CHOICE SHOULD BE TO AVOID THIS PROBLEM BY REFRAINING FROM INSTALLING ANY SUCH COMPONENTS UNTIL THE RISK OF AIRBORNE DUST AND CONTAMINANTS IS ELIMINATED (E.G. AFTER FLOORS AND CEILINGS ARE TREATED, AND WALLS RECEIVE THE FINAL COAT OF PAINT).

3.3 CARRIER CIRCUIT EXTENSION INSTALLATION

A. CARRIER CIRCUIT EXTENSION CABLES SHALL BE INSTALLED BY CONTRACTOR. THE CABLE TERMINATIONS MAY BE PERFORMED EITHER BY CONTRACTOR, OR BY THE ILEC, DEPENDING UPON THE CUSTOMARY PRACTICE IN THAT ILEC'S REGION. CONTRACTOR SHALL COORDINATE THIS PORTION OF THE PROJECT WITH OPR.

B. IF THE ROUTE FOR THE CARRIER CIRCUIT EXTENSION CABLES PASSES THROUGH SPACE THAT IS NOT CONTROLLED BY JPMC, IT IS VULNERABLE TO ACCIDENTAL OR INTENTIONAL SERVICE INTERRUPTION, AND SHOULD BE INSTALLED IN A PROPERLY-DESIGNED RIGID METALLIC CONDUIT (RMC) 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

8 SECTION 27 13 00
STRUCTURED CABLING - BACKBONE CABLING

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TELECOM BOOK SPECS

job no. 48200R0254765

sheet

TC-004

SECTION 27 15 00 - STRUCTURED CABLING - HORIZONTAL CABLING

PART 1 - GENERAL

1.1 DESCRIPTION

A. CATEGORY 6 HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL STANDARD WALL OUTLETS AND ATM CABLE RUNS UNLESS NOTED OTHERWISE. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT OR 48-PORT PATCH PANEL WITH CATEGORY 6, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.

B. CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL WIRELESS ACCESS POINT AND SECURITY CAMERA LOCATIONS. THESE CABLES SHALL BE TERMINATED IN THE RMER OR RTR ON A 24-PORT PATCH PANEL WITH CATEGORY 6A, RJ-45 JACKS, EMPLOYING T568B TERMINATIONS.

C. FOILED/UNSHIELDED TWISTED PAIR CATEGORY 6A HORIZONTAL CABLE INFRASTRUCTURE SHALL BE INSTALLED FOR ALL VIDEO MONITOR LOCATIONS WHERE IDENTIFIED TO SUPPORT HDBASE-T TECHNOLOGY OR FOR 5G CELLULAR ANTENNA EXTENSIONS/CONNECTIONS. 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. IN NO CASE SHALL CATEGORY 6 / 6A 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, OM4-RATED MULTIMODE FIBER SHALL BE INSTALLED WITH FIBER-TO-COPPER MEDIA CONVERTERS ON BOTH ENDS OF THE CABLE RUN.

E. THIS SPECIFICATION CONTAINS ALL PRODUCTS CURRENTLY APPROVED BY JPMC. THE CONTRACTOR SHOULD NOT ASSUME THAT ALL OF THE MATERIALS LISTED IN THE SPECIFICATIONS MUST BE INSTALLED BECAUSE THEY ARE LISTED IN THE SPECIFICATION. PROJECT-SPECIFIC REQUIRED MATERIALS ARE FURTHER DEFINED IN THE PROJECT CONSTRUCTION DRAWINGS.

PART 2 - PRODUCTS

2.1 PLENUM REQUIREMENTS

A. LOCAL OR NATIONAL CODES MAY ALLOW NON-PLENUM (PVC) CABLE IN SOME LOCATIONS, IN WHICH CASE CONTRACTOR SHALL INFORM OPR THAT PLENUM RATED CABLE IS NOT REQUIRED. IF THE USE OF PVC CABLE IS APPROVED BY OPR, CONTRACTOR SHALL QUOTE AND INSTALL PVC CABLE. IF NO INFORMATION EXISTS REGARDING PLENUM/PVC CABLE REQUIREMENTS, CONTRACTOR SHALL QUOTE AND INSTALL PLENUM RATED CABLE.

2.2 PATCH CORDS - GENERAL

A. ONLY FACTORY TERMINATED PATCH CORDS MAY BE UTILIZED IN JPMC FACILITIES. UTP PATCH CORDS THAT ARE PRE-TERMINATED (E.G., CREATED BY PERSONNEL NOT DIRECTLY EMPLOYED BY THE MANUFACTURER) ARE NOT PERMISSIBLE, UNLESS PREVIOUSLY APPROVED IN WRITING BY OPR.

B. QUANTITIES, TYPES, AND LENGTHS OF PATCH CORDS ARE SPECIFIED BY OPR.

C. ALL PATCH CORDS FOR PRINTERS, MULTI-FUNCTION DEVICES (MFD), ETC. SHALL BE 7 FT. IN LENGTH.

D. RMER/RTR PATCH CORDS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, TO ENSURE APPROPRIATE LENGTHS AND TIMELY MATERIAL PROCUREMENT. PATCH CORDS SHALL HAVE NO MORE THAN 1' OF SLACK.

E. PATCH CORDS SHALL BE COLORED AS FOLLOWS:
1. CATEGORY 6: GRAY
2. CATEGORY 6A: WHITE
3. CATEGORY 6A F/UTP: WHITE

2.3 MATERIALS

A. SEE THE WORK AREA OUTLET SCHEDULE, CABLE SCHEDULE, AND RACK EQUIPMENT SCHEDULE ON THE CONSTRUCTION DRAWINGS FOR MANUFACTURERS AND PART NUMBERS FOR THE FOLLOWING EQUIPMENT:
1. CATEGORY 6 UTP MATERIALS
2. CATEGORY 6A UTP MATERIALS
3. CATEGORY 6A F/UTP MATERIALS
4. CATEGORY 6 OSP UTP MATERIALS
5. CATEGORY 6A OSP UTP MATERIALS
6. FACEPLATES
7. OUTSIDE PLANT HORIZONTAL MULTIMODE FIBER MATERIALS

2.4 COPPER AND FIBER OPTIC TESTING EQUIPMENT

A. THE FOLLOWING PRODUCTS SHOULD BE USED WHEN TESTING STRUCTURED CABLING INFRASTRUCTURE:
1. TEST EQUIPMENT WHICH IS CAPABLE OF ELECTRONICALLY STORING TEST RESULT DATA. THE TESTER SHALL EXCEED ANSI/TIA-1152 LEVEL 2G
2. CATEGORY 6 AND CATEGORY 6A PERMANENT AND CHANNEL ADAPTERS
3. SINGLE-MODE AND MULTI-MODE FIBER ADAPTERS
4. ENCIRCLED FLUX REFERENCE CORDS
5. FIBER INSPECTION PROBE/ MICROSCOPE
6. APPROPRIATE CONNECTOR CLEANING TOOLS/ TAPES
7. 2M CATEGORY 6 PATCH LEADS IF CHANNEL TESTING CATEGORY 6 CABLING
8. 2M CATEGORY 6A PATCH LEADS IF CHANNEL TESTING CATEGORY 6A CABLING

PART 3 - EXECUTION

3.1 INSTALLATION

A. ALL RJ45 TERMINATIONS EMPLOY 568B TERMINATIONS.

B. ALL CABLES AND OUTLETS SHALL BE LABELED IN ACCORDANCE WITH SECTION 27 05 53.

C. COMPLETED HORIZONTAL CABLES SHALL BE TESTED IN ACCORDANCE WITH PART 3.2 - TESTING BELOW.

D. CONTRACTOR SHALL POPULATE THE PATCH PANEL WITH OUTLET TERMINATIONS TO SUPPORT INITIAL WORK AREA OUTLET REQUIREMENTS, AND LEAVING A GROWTH FACTOR OF 10% AS OPEN POSITIONS.

E. TO ENSURE OPTIMUM CABLE PERFORMANCE, BUNDLES OF 4-PAIR CABLES SHALL NOT BE TIGHTLY BUNDLED AND CAREFULLY ALIGNED FOR DESIRABLE AESTHETIC APPEARANCE.

F. CATEGORY 6/6A CABLES SHALL NOT BE KINKED OR UNDULY TWISTED, NOR SHALL THE INTEGRITY OF THE CABLE SHEATH BE COMPROMISED IN ANY FASHION. CABLE BUNDLES SHALL NOT BE CLINCHED OR TIED TOGETHER WITH EXCESSIVE FORCE, THEREBY HOLDING JACKET DEFORMATION TO A MINIMUM. INDIVIDUAL CABLE BEND RADII MAY BE NO LESS THAN FOUR TIMES THE CABLE DIAMETER OR 0.6 INCHES, WHICHEVER IS GREATER.

G. DURING TERMINATION, PAIR TWISTS SHALL BE MAINTAINED AS CLOSE AS POSSIBLE TO THE TERMINATION POINT. IN ANY CASE, THE AMOUNT OF UNTWISTING MUST NOT EXCEED .5 INCHES AT THE POINT OF TERMINATION.

H. CABLES SHALL BE DRESSED-IN, VELCRO® OR MILLEPEDE® MILLE-TIES RELEASABLE CABLE TIED, AND SECURED TO THE LADDER RACK, PLYWOOD BACKBOARD, AND/OR OTHER SUITABLE SURFACES TO ENSURE A PROFESSIONAL APPEARANCE AND RUN STRAIGHT, LEVEL, AND PARALLEL TO BUILDING LINES, WITH 90° CORNERS WHERE POSSIBLE. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S STANDARD PULLING TENSION AND MINIMUM BEND RADII AT ALL TIMES.

I. IN THE RMER/RTR, CABLES ASSOCIATED WITH A GIVEN WORK AREA SHALL BE TERMINATED INTO CONTIGUOUS POSITIONS IN THE PATCH PANEL. FOR EXAMPLE, IF EACH WORK AREA IS EQUIPPED WITH TWO CATEGORY 6 CABLES, THE FIRST WORK AREA SHALL BE TERMINATED ON POSITIONS 1 AND 2 OF THE PATCH PANEL, THE SECOND WORK AREA SHALL BE TERMINATED ON POSITIONS 3 AND 4 OF THE PATCH PANEL, AND SO FORTH.

J. IN THE RMER/RTR, A FLOOR PLAN MAP ILLUSTRATING THE TELECOM OUTLETS, WAPS AND IP CAMERA LOCATIONS AND NUMBERS SHALL BE MADE READILY AVAILABLE AND VIEWABLE.

K. WHEREVER PRACTICAL, JACKS THAT ARE INSTALLED AT MODULAR FURNITURE LOCATIONS SHALL BE FULLY INTEGRATED INTO FURNITURE RACEWAY LOCATIONS THAT ARE DESIGNED FOR THE PURPOSE, AVOIDING THE USE OF BISCUIT JACKS. WHERE THE FURNITURE SYSTEM DOES NOT CONTAIN AN INTEGRAL RACEWAY, AND NO APPARENT CABLE MANAGEMENT METHOD IS PROVIDED, CABLING SHALL BE NEATLY DRESSED AND CONCEALED UPON REVIEW AND APPROVAL BY THE OPR. VELCRO, DOUBLE SIDED TAPE OR OTHER ADHESIVE MATERIALS WILL ONLY BE ACCEPTED IF PREVIOUSLY APPROVED IN WRITING BY THE OPR.

L. CABLING TO WALL MOUNTED WORKSTATION OUTLETS SHALL TERMINATE IN A SINGLE- OR DOUBLE-GANG BOX PROVIDED BY OTHERS. CONTRACTOR SHALL PROVIDE THE NECESSARY CONNECTORS (AS DESCRIBED ELSEWHERE) UNDER A SINGLE-GANG FACEPLATE. THE TYPE OF FACEPLATE TO BE USED SHALL BE COORDINATED WITH THE ARCHITECT FOR COLOR, FINISH, ETC.

M. CABLING TO FLOOR MOUNTED WORKSTATION OUTLETS SHALL BE TERMINATED IN A FLUSH OR SURFACE MOUNTED POKE-THRU OR SERVICE FITTING PROVIDED BY OTHERS. ALL CABLING AND CONNECTORS SHALL REMAIN WITHIN THE POKE-THRU OR SERVICE FITTING HOUSING. IF NECESSARY, THE CONTRACTOR SHALL MODIFY THE BLANK PLATES PROVIDED WITH THE POKE-THRU OR SERVICE FITTING IN ORDER TO ACCOMMODATE THE CONNECTORS.

N. FOR HORIZONTAL FTP CABLING, GROUNDING OF THE SHIELD SHOULD BE MADE ON THE RMER END ONLY.

O. FOR ALL HORIZONTAL CABLE RUNS THAT RUN EXTERIOR TO THE MAIN BUILDING, INSTALL OSP-RATED UTP OR FIBER CABLE. CONDUIT SHALL BE PROVIDED FROM THE OUTLET TO THE RMER/RTR. OSP CABLING SHALL NOT BE INSTALLED IN A PLENUM-RATE CEILING SPACE.

P. FOR EACH UTP OSP CABLE THAT TERMINATES OUTSIDE THE ROOF LINE OF THE BUILDING, FURNISH AND INSTALL ONE OSP PROTECTOR, MOUNTED TO THE PLYWOOD BACKBOARD IN THE EQUIPMENT ROOM, AND BONDED TO THE GROUNDING BUSBAR VIA A MINIMUM 14 AWG GREEN JACKETED GROUND WIRE. TERMINATE THE UTP OSP CABLE AT THE PROTECTOR PER MANUFACTURER SPECIFICATIONS. WHERE THE OSP CABLE IS TERMINATED IN AN RJ45 JACK AT AN ATM, PROTECTION IS FURNISHED BY OTHERS, AND A 6 FT SERVICE LOOP SHALL BE PROVIDED SO THAT THE SURFACE MOUNTED RJ45 SINGLE-OUTLET JACK CAN BE DRESSED INTO THE INTERIOR OF THE ATM BY OTHERS.

Q. ALL OUTLET JACKS, CABLE, PATCH PANEL, PATCH CORDS MUST MATCH THE CATEGORY OR FIBER GRADE OF CABLE BEING DEPLOYED.

3.2 TESTING

A. DESCRIPTION
1. PRIOR TO THE TESTING COMMENCING, THE CONTRACTOR IS TO PROVIDE A COMPREHENSIVE TESTING METHODOLOGY DOCUMENT FOR APPROVAL, PRIOR TO ANY TESTING COMMENCING. THIS DOCUMENT SHALL INCLUDE THE FOLLOWING INFORMATION:
2. BRIEF OVERVIEW OF THE PROJECT (LOCATION, SCOPE ETC.)
3. OVERVIEW OF THE TESTING PROCEDURE INCLUDING SUPPORTING DOCUMENTATION, ONSITE EQUIPMENT CALIBRATION/ REFERENCING AND CLEANING PROCEDURE.
4. DETAILS OF THE EQUIPMENT TO BE USED.
5. CALIBRATION REQUIREMENTS AND CERTIFICATION FOR THE EQUIPMENT TO BE USED
6. TEST RESULT BACKUP PROCEDURE
7. DETAILS OF PROCEDURE FOR REMEDIATING ANY TEST RESULTS WHICH DO NOT PASS THE REQUIRED TESTS
8. A PROGRAM OF WORKS FOR THE TESTING, SHOULD THIS NOT BE CLEAR IN THE OVERALL INSTALLATION PROGRAM

B. ALL ELECTRONIC AND OPTICAL MEASURING (TEST) EQUIPMENT SHALL BE WITHIN 12 MONTHS OF A CALIBRATION THAT HAS BEEN CARRIED OUT BY AN APPROVED CALIBRATION HOUSE. ALL CALIBRATION CERTIFICATES SHALL BE AVAILABLE ON SITE DURING THE TESTING PHASE. ALL TEST RESULTS SHALL IDENTIFY THE EQUIPMENT SERIAL NUMBER (LOCAL AND REMOTE) OF TEST EQUIPMENT USED

C. THE "STORE PLOT DATA" FUNCTION OF THE TESTER MUST BE ENABLED PRIOR TO ANY TESTING COMMENCING. THIS IS TO ENABLE ELECTRONIC RE-TESTING AT A LATER DATE SHOULD THIS BE REQUIRED. TEST RESULTS ISSUED WITHOUT THE PLOT DATA ENABLED WILL BE CONSIDERED NON-COMPLIANT AND RE-TESTING WILL BE REQUIRED AT THE CONTRACTORS COST.

D. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED.

E. ONCE ALL PRODUCTS (I.E. CABLES AND ASSOCIATED HARDWARE) HAVE BEEN FULLY INSTALLED IN THEIR FINAL LOCATIONS AND LABELLED, TESTING OF ALL CORES/ CABLES MAY COMMENCE.

F. ALL CABLES/ CORES SHALL BE 100% TESTED IN ACCORDANCE WITH THE SECTIONS BELOW.

G. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMEDIATE ALL FAULTS FOUND WHILST TESTING AT ITS OWN EXPENSE. ALL TEST EQUIPMENT SHALL BE BY THE CONTRACTOR.

H. JPMC MAY CHOOSE TO WITNESS TEST RANDOM ELEMENTS OF THE INSTALLATION, WHICH SHOULD HAVE ALREADY BEEN ALLOWED FOR IN THE COSTS. THE CONTRACTOR SHALL PROVIDE 2 TESTING ENGINEERS AND ALL EQUIPMENT REQUIRED TO UNDERTAKE THE WITNESS TESTING (INCLUDING FULLY CHARGED TEST EQUIPMENT). CHANNEL TESTING (INCLUDING EXISTING PREVIOUSLY INSTALLED INFRASTRUCTURE MAY ALSO BE REQUIRED AS PART OF THE WITNESS TESTING, TO ENSURE THAT THE FULL CHANNEL IS COMPLIANT.

I. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL SCS INFRASTRUCTURE HAS BEEN 100% TESTED AND TEST RESULT ISSUED TO JPMC IN BOTH TESTER AND PDF FORMAT. TEST RESULTS ARE TO BE BROKEN DOWN INTO 10MB FILE SIZES AND EMAILED (FTP SITES, CDS OR FLASH DRIVES ARE NOT PERMITTED).

3.3 FIBER TESTING

A. TESTS SHALL BE CARRIED OUT AT 850NM AND 1300NM FOR MULTI-MODE TESTING AND 1310NM AND 1550NM FOR SINGLE-MODE TESTING IN ONE DIRECTION.

B. THE FIBER MANUFACTURER'S WARRANTY CONDITIONS SHALL BE USED TO PERFORM ALL FIBER TESTING. THESE STANDARDS ARE MORE STRINGENT THAN INTERNATIONAL AND NATIONAL STANDARDS. THE CONTRACTOR IS REQUIRED TO PERFORM CUSTOM TESTS USING THE TESTER AND IS THEREFORE TO ADJUST THE CONTACTOR LOSS VALUES IN THE TESTER SOFTWARE ACCORDINGLY.

C. SHOULD INSTALLED FIBERS BE REQUIRED TO BE CONNECTED DIRECTLY INTO A SWITCH IN A HARNESS LINK TOPOLOGY, ALL FIBERS WILL BE PATCHED PRIOR TO TESTING COMMENCING, THEN INDIVIDUALLY UN-PATCHED, TESTED, AND FINALLY RE-PATCHED. THIS IS TO MITIGATE POLARITY CONCERNS.

D. WHEN REFERENCING FIBER OPTIC TESTERS THE 1 JUMPER (METHOD B) METHODOLOGY SHALL BE EMPLOYED.

E. FIBER TESTERS SHALL BE COMPLIANT WITH ENCIRCLE FLUX LAUNCH SOURCES/ CONDITIONS. ENCIRCLED FLUX TESTING PATCH LEADS SHALL BE USED AND SHOULD NOT BE MATED BEYOND THE MAXIMUM OF 500 TIMES.

F. DELIVERED CABLE TESTS ARE NOT REQUIRED, HOWEVER A CERTIFICATE OF CONFORMANCE SHALL BE SUPPLIED WITH EACH TRUNK CABLE AND COPIES MADE AVAILABLE ON SITE AND PROVIDED IN THE FINAL HANDOVER DOCUMENTATION.

G. INDIVIDUAL CABLE RUNS SHALL BE TRACEABLE TO THE DELIVERED TRUNK CERTIFICATION.

3.4 CATEGORY 6 AND CATEGORY 6A TESTING

A. PERMENANT LINK AND CHANNEL TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDRADS PER REGION:
1. ISO/IEC 11801
2. ANSI/TIA 568

B. PERMANENT LINK TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND AN RJ45 OUTLET.

C. CHANNEL TESTING SHOULD BE PERFORMED BETWEEN A PATCH PANEL AND A FACTORY TERMINATED RJ45 PLUG (WHEN A HARNESS LINK OR CONSOLIDATION POINT HAS BEEN DEPLOYED). CHANNEL TESTING BETWEEN TWO RJ45 OUTLETS IS NOT TYPICALLY REQUIRED.

D. SYSTEM ACCEPTANCE TESTS FOR CATEGORY 6 ARE DETAILED BELOW:

CATEGORY 6
1. WIRE MAP
2. LENGTH
3. PROPAGATION DELAY
4. DELAY SKEW
5. DC LOOP RESISTANCE - RECORDED FOR INFORMATION ONLY
6. DC RESISTANCE UNBALANCE - RECORDED FOR INFORMATION ONLY
7. INSERTION LOSS
8. NEXT (NEAR-END CROSSTALK)
9. PS NEXT (POWER SUM NEAR-END CROSSTALK)
10. ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY
11. PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END) - RECORDED FOR INFORMATION ONLY
12. ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END)
13. PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
14. RETURN LOSS
15. TCL (TRANSVERSE CONVERSION LOSS) - RECORDED FOR INFORMATION ONLY
16. ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS) - RECORDED FOR INFORMATION ONLY

CATEGORY 6A & CATEGORY 6A (CATAGORY6A SHIELDED/FOILED CABLES FOR AUDIO-VIDEO CABLES ONLY)
1. WIRE MAP
2. LENGTH
3. PROPAGATION DELAY
4. DELAY SKEW
5. DC LOOP RESISTANCE
6. DC RESISTANCE UNBALANCE WITHIN A PAIR
7. DC RESISTANCE UNBALANCE BETWEEN PAIRS
8. INSERTION LOSS
9. NEXT (NEAR-END CROSSTALK)
10. PS NEXT (POWER SUM NEAR-END CROSSTALK)
11. ACR-N (ATTENUATION TO CROSSTALK RATIO NEAR-END)
12. PS ACR-N (POWER SUM ATTENUATION TO CROSSTALK RATIO NEAR-END)
13. ACR-F (ATTENUATION TO CROSSTALK RATIO FAR-END)
14. PS ACR-F (POWER SUM ATTENUATION TO CROSSTALK RATIO FAR-END)
15. RETURN LOSS
16. TCL (TRANSVERSE CONVERSION LOSS)
17. ELTCTL (EQUAL LEVEL TRANSVERSE CONVERSION TRANSFER LOSS)
18. PS ANEXT (POWER SUM ALIEN NEAR-END CROSSTALK)
19. AVERAGE PS ANEXT (AVERAGE POWER SUM ALIEN NEAR-END CROSSTALK)
20. PS AACR-F (POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
21. AVERAGE PS AACR-F (AVERAGE POWER SUM ALIEN ATTENUATION TO CROSSTALK RATIO FAR-END)
22. SHIELD/FOIL CONTINUITY (FOR CATAGORY6A SHIELDED/FOILED CABLES ONLY)

E. ALL MARGINAL (OR STAR *) PASSES SHALL BE CONSIDERED FAILS AND WILL REQUIRE REMEDIATION UNTIL A PASS IS ACHIEVED

3.3 DOCUMENTATION

A. ALL TEST RESULTS ARE TO BE ISSUED IN PDF FORMAT A MAXIMUM OF TWO DAYS AFTER FINAL COMPLETION OF THE TESTING. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

B. PDF FILE SIZES ARE TO BE NO GREATER THAN 10MB AS EMAIL IS THE ONLY OPTION OF ISSUING THEM. PAPER COPIES ARE NOT REQUIRED.

C. THE TEST RESULTS IN THE PDF DOCUMENT ARE TO BE SEQUENCED IN NUMERICAL ORDER, AND THE PORT DESCRIPTION SHOULD MATCH THE LABELLING NOMENCLATURE. IT IS IMPERATIVE THAT THE TEST RESULTS DETAIL THE LOCAL LENGTH MEASUREMENT UNITS.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL PORTS HAVE BEEN 100% TESTED PRIOR TO SUBMITTING THE TEST RESULTS.

E. THE CONTRACTOR SHALL PROVIDE AN ELECTRONIC COPY OF THE TEST RESULTS AND THE FINAL AS-BUILT DRAWINGS SHOWING ALL HORIZONTAL CABLE LABELS AT EACH OUTLET LOCATION. THE FINAL AS-BUILT CABLE LABEL SHALL BE IDENTICAL TO THE CABLE IDENTIFIER IN THE TEST RESULTS.

F. THE CONTRACTOR SHALL PROVIDE THE FINAL MANUFACTURER PERFORMANCE AND ASSURANCE WARRANTY, TEST RESULTS AND FINAL AS-BUILT DRAWINGS AS A COMPLETE CLOSE OUT SUBMITTAL. THE PROJECT WILL NOT BE CONSIDERED COMPLETE AND INVOICES WILL NOT BE PAID UNTIL THIS IS ACHIEVED.

END OF SECTION

JPMorganChase
WORKPLACE TECHNOLOGY SOLUTIONS
BUILDING TECHNOLOGY INFRASTRUCTURE
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL

BRANCH

VANCOUVER - RELO

keyplan

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issue

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site location **JP MORGAN CHASE**
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	KB	drawn	KB	date	05.12.2026
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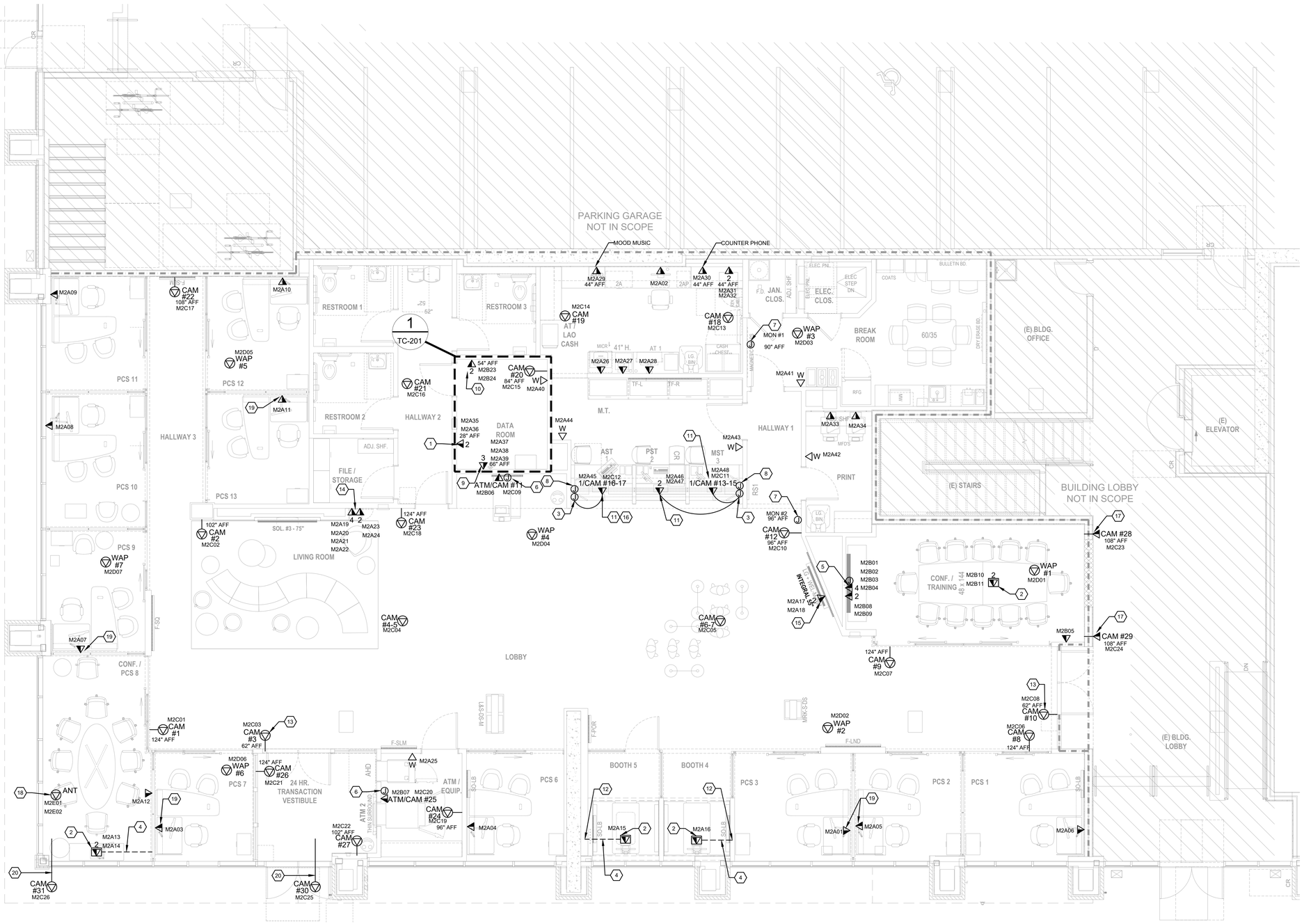
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TELECOM BOOK SPECS

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TC-005


PARKING GARAGE
NOT IN SCOPE
MOOD MUSIC
COUNTER PHONE
RESTROOM 1
RESTROOM 2
RESTROOM 3
PCS 11
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HALLWAY 1
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DATA ROOM
FILE / STORAGE
LIVING ROOM
CONF. / PCS 8
LOBBY
TRANSACTION VESTIBULE
BREAK ROOM
(E) BLDG. OFFICE
(E) ELEVATOR
(E) STAIRS
BUILDING LOBBY NOT IN SCOPE
CONF. / TRAINING
PRINT
M.T.
AT LAO CASH
ELEC. CLOS.
JAN. CLOS.
BOOTH 5
BOOTH 4
ATM / EQUIP.
ATM/CAM #11
1/CAM #16-17
1/CAM #13-15
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RACK EQUIPMENT SCHEDULE (ALL EQUIPMENT PROVIDED BY TC UNLESS OTHERWISE NOTED)							
ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER	ITEM	DESCRIPTION	MANUFACT.	MODEL NUMBER
1A	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	8C	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	CPI	12101-701
2A	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	8D	LADDER RACK CABLE RETAINING POSTS	CPI	10596-706
2B	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	8E	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712
3A	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	9A	NETWORK SWITCH	CISCO	PROVIDED BY OWNER
4A	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187211	9B	NETWORK ROUTER	CISCO	PROVIDED BY OWNER
4B	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760187203	9C	CELLULAR NETWORK ROUTER WITH ANTENNA RACK MOUNTED WITH RACK MOUNT BRACKETS	CISCO	PROVIDED BY OWNER
4C	MODULAR, SHIELDED, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE / SYSTIMAX	760151290	9D	SERVER	PROVIDED BY OWNER	PROVIDED BY OWNER
6A	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	9E	SERVER MOUNTING BRACKET	CPI	12751-719
7A	BLACK VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI	EA-3087-CE (2 PACK 1-WHITE 1-BLACK) WITH (2) TS1012713	9F	UPS	PROVIDED BY OWNER	PROVIDED BY OWNER
7B	WHITE VERTICAL POWER DISTRIBUTION UNIT WITH MOUNTING BRACKET FOR IT EQUIPMENT ONLY	CPI		9G	UPS MOUNTING BRACKET	VERTIV	2POSTRMKIT
8A	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	10	RECEPTACLES MOUNTED ON A SEPARATE C-CHANNEL (UNISTRUT) BELOW THE LADDER RACK & ABOVE THE RACKS. RECEPTACLES TO FACE THE REAR DIRECTION		PROVIDED BY EC
8B	12" WIDE LADDER RACK - BLACK FINISH	CPI	10250-712	11	ALL-THREAD TO STRUCTURE		PROVIDED BY TC

GENERAL NOTES

A. PER ARCHITECTURAL DESIGN STANDARDS, WALL BOARDS ARE TO BE LOCATED ONLY WHERE INDICATED ON THIS SHEET.

B. ALL OVERHEAD CONDUITS LEAVING THE RMER SHALL INCLUDE AN APPROVED INTUMESCENT FIRESTOP PLUG (2" OR LARGER) OR FIRESTOP PUTTY (UNDER 2" CONDUIT).

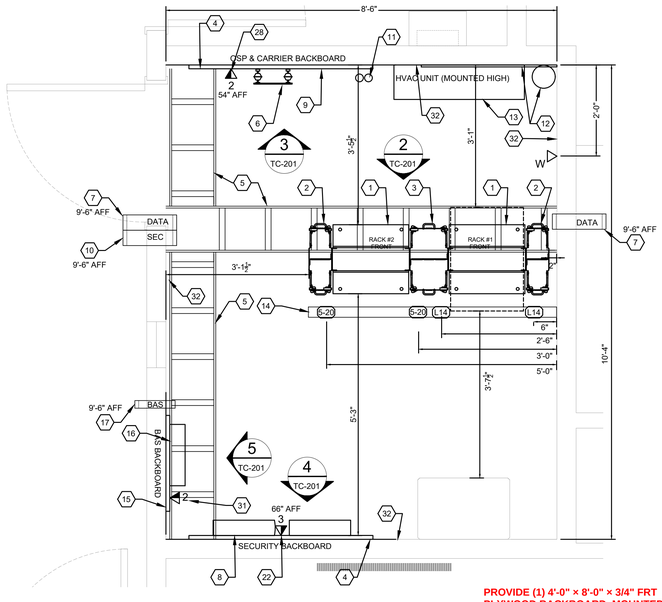
C. ALL UNDERGROUND CONDUITS LEAVING THE RMER SHALL SEALED WATERTIGHT ONCE CABLING IS INSTALLED.

D. GC SHALL ENSURE THAT SETPOINTS FOR DEDICATED COOLING UNIT IS 75-DEGREES F, AND BACKUP EXHAUST FAN IS SET FOR 90-DEGREES F.

E. OUTLET MOUNTING HEIGHTS NEED TO BE MAINTAINED. HORIZONTAL DIMENSIONS FOR OUTLETS FROM THE EDGE OF A BACKBOARD HAVE A +/- 2.5" TOLERANCE.

F. "GC SHALL PROVIDE BLUE PAINTER'S TAPE ON EACH WALLBOARD DENOTING DEDICATED MOUNTING SPACE FOR EACH SYSTEM BASED ON CORRESPONDING WALLBOARD ELEVATIONS. EACH DEDICATED MOUNTING SPACE SHALL BE LABELED RESPECTIVELY FOR 'CARRIER', 'SECURITY', OR 'BAS' SYSTEMS."

G. ROOF PENETRATIONS ARE NOT PERMITTED IN THE DATA ROOM.



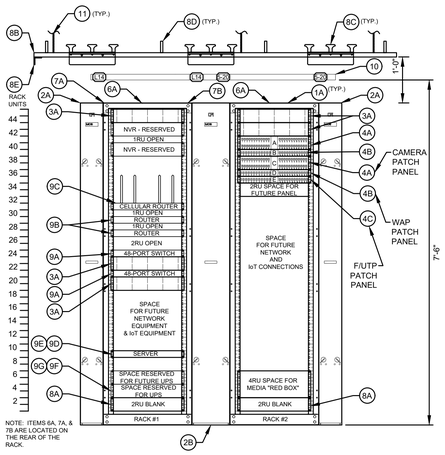
1 ENLARGED RMER PLAN
SCALE: 3/4"= 1'-0"

PROVIDE (1) 4'-0" × 8'-0" × 3/4" FRT PLYWOOD BACKBOARD, MOUNTED VERTICALLY OVER GYPSUM BOARD, BOTTOM AT 6" AFF. DO NOT SCALE. CARRY 32 SF / 1 EA.
REF: TC-201, DETAIL 3, KEYNOTE 4
COORD.: A1.1 A-21; A1.2 A-4; E4.1 M-1a

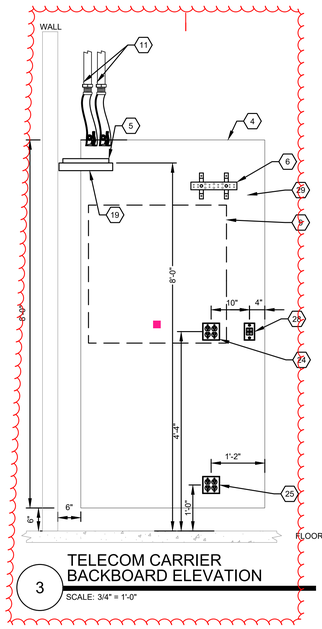
PROVIDE (1) 4'-0" × 8'-0" × 3/4" FRT PLYWOOD BACKBOARD, MOUNTED VERTICALLY OVER GYPSUM BOARD, BOTTOM AT 6" AFF. APPLY FIRE-RETARDANT PAINT TO BOTH SIDES AND EDGES; LEAVE ONE FIRE-RATING / MANUFACTURER STAMP VISIBLE. DO NOT SCALE. CARRY 32 SF / 1 EA.
REF: TC-201, DETAIL 4, KEYNOTES 4 & 8
COORD.: E4.1, M-1C

ENLARGED MAIN EQUIPMENT ROOM NOTES

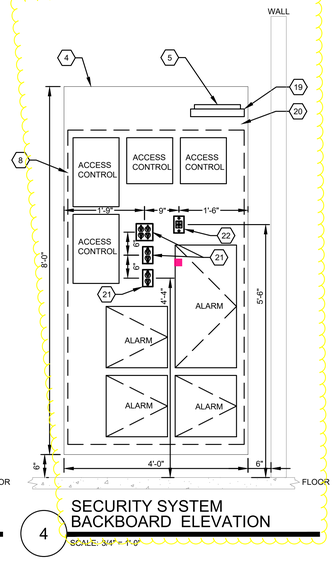
1. NEW 2-POST RACK WITH BLACK FINISH.
2. NEW 6" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH.
3. NEW 10" WIDE VERTICAL WIRE MANAGER WITH BLACK FINISH
4. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 4' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
5. NEW 12" WIDE LADDER RACK OVERHEAD WITH BLACK FINISH.
6. LOCATION OF THE TELECOMMUNICATIONS GROUND BUSBAR. EC TO MOUNT 6" BELOW THE BOTTOM OF THE LADDER RACK. REFER TO GROUNDING DETAIL ON TC-403 FOR ADDITIONAL INFORMATION.
7. PROVIDE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZD44S2) WITH WATERFALL ADAPTER (STI PART #EZRCM44S) FOR STRUCTURED CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "DATA ONLY".
8. 4' WIDE BY 7'-0" TALL WALL FIELD AREA RESERVED FOR SECURITY EQUIPMENT.
9. 3' WIDE BY 3' TALL WALL FIELD AREA RESERVED ON BACKBOARD FOR CARRIER EQUIPMENT TO BE MOUNTED.
10. PROVIDE ONE 4" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZDP44S2) FOR SECURITY ALARM AND CARD ACCESS CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR ADDITIONAL INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "SECURITY ONLY".
11. E.C. TO PROVIDE TWO 2" CONDUITS WITH 2" 3-CELL MAXCELL INNERDUCT IN EACH CONDUIT 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 SWEEPING 90-DEGREE BENDS. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
12. TC TO PROVIDE A DRAWING OF THE FLOOR PLAN AS-BUILT WITH ALL HORIZONTAL CABLING LABELS FOR EACH OUTLET. MOUNT DRAWING TO WALL. GC TO 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 MOUNTED 8'-0" AFF.
14. EC TO PROVIDE A C-CHANNEL (UNI-STRUT) WITH TWO L14-30 OUTLET AT RACK #1 AND TWO NEMA 5-20 OUTLETS AT RACK #2 MOUNTED AT 7'-6" AFF. EACH OUTLET SHALL BE ON A DEDICATED CIRCUIT. EC TO MOUNT THIS INDEPENDENTLY FROM THE LADDER RACK AND THE EQUIPMENT RACKS. REFER TO TC-403 FOR REQUIRED EQUIPMENT POWER CONNECTIONS SCHEMATIC AND PDU MOUNTING DETAIL. RECEPTACLES ARE TO FACE THE WALL AWAY FROM THE RACKS.
15. NEW WALL MOUNTED, FIRE-RATED PLYWOOD BACKBOARD, 2' WIDE BY 8' TALL BY 3/4" THICK, BOTTOM MOUNTED 6" ABOVE FINISHED FLOOR. PAINT WITH FIRE-RETARDANT PAINT TO MATCH ROOM COLOR AND LEAVE ONE FIRE-RATED STAMP VISIBLE.
16. 1'-4" WIDE BY 5'-6" TALL WALL FIELD AREA RESERVED BUILDING AUTOMATION SYSTEM (BAS) EQUIPMENT.
17. PROVIDE ONE 2" PRE-MANUFACTURED FIRE-RATED SLEEVE (STI EZ-PATH PART # EZD22) FOR BUILDING AUTOMATION SYSTEM (BAS) CABLING USE ONLY. REFER TO CABLE PENETRATION DETAIL ON TC-402 FOR LABELING INFORMATION. PROVIDE LABEL VISIBLE FROM GROUND INDICATING THIS SLEEVE FOR "BAS/BMS ONLY".
18. NOTE NOT USED.
19. WALL MOUNTED SUPPORT BRACKET FOR LADDER RACK.
20. ALL SECURITY SYSTEM CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
21. POWER CONNECTIONS ON DEDICATED CIRCUITS AND CONDUIT HOMERUN FOR SECURITY EQUIPMENT. EC TO COORDINATE ADDITIONAL CONNECTIONS REQUIRED, OUTLET MOUNTING HEIGHT, AND OUTLET CONFIGURATIONS & LOCATIONS ON THE BACKBOARD WITH THE SECURITY VENDOR.
22. DATA OUTLETS FOR THE ACCESS CONTROL PANEL FOR EQUIPMENT NETWORK CONNECTION. COORDINATE WITH SECURITY CONTRACTOR TO PROVIDE ONE CONNECTION FOR EACH PANEL WITHIN SINGLE GANG BACK BOX AND FACEPLATE.
23. NOTE NOT USED.
24. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR CARRIER EQUIPMENT.
25. QUAD POWER OUTLET ON A DEDICATED CIRCUIT AND CONDUIT HOMERUN FOR FUTURE EQUIPMENT.
26. DEDICATED DUPLEX OUTLET FOR BUILDING AUTOMATION SYSTEM (BAS)EQUIPMENT.
27. NOTE NOT USED.
28. 2-PORT CAT6 DATA OUTLET WITH PURPLE COLORED CAT6 JACKS FOR COPPER EXTENSION OF CARRIER CIRCUIT TO RACK.
29. ALL CARRIER CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES. (TYPICAL)
30. ALL BAS CABLING MUST BE AFFIXED TO WALL AND/OR FIXED CONVEYANCE WITH HANGERS, VELCRO AND TIES. NO HANGING CABLES (TYPICAL).
31. DATA OUTLET FOR THE BUILDING AUTOMATION SYSTEM (BAS) PANEL FOR EQUIPMENT NETWORK CONNECTION. REFER TO CONDUIT AND SLEEVE LABELING ON TC-402 FOR LABELING INFORMATION.
32. LOCATION FOR CONVENIENCE ELECTRICAL RECEPTACLE (BY DIV 26).



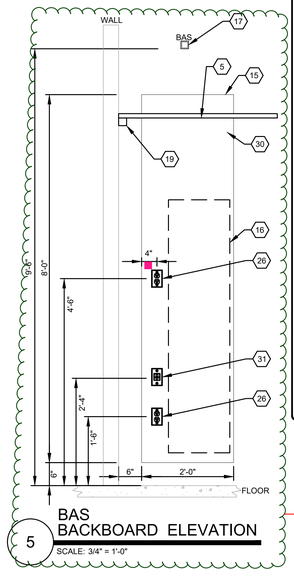
2 RMER EQUIPMENT RACK ELEVATION
SCALE: 3/4"= 1'-0"



3 TELECOM CARRIER BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"



4 SECURITY SYSTEM BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"



5 BAS BACKBOARD ELEVATION
SCALE: 3/4" = 1'-0"

PROVIDE (1) 2'-0" × 8'-0" × 3/4" FRT PLYWOOD BACKBOARD FOR BAS/BMS EQUIPMENT, MOUNTED VERTICALLY OVER GYPSUM BOARD, BOTTOM AT 6" AFF. APPLY FIRE-RETARDANT PAINT TO BOTH SIDES AND EDGES; LEAVE ONE FIRE-RATING / MANUFACTURER STAMP VISIBLE. DO NOT SCALE. CARRY 16 SF / 1 EA.
REF: TC-201, DETAIL 5, KEYNOTE 15
COORD.: E4.1, M-1B

JPMorganChase

WORKPLACE TECHNOLOGY SOLUTIONS

BUILDING TECHNOLOGY INFRASTRUCTURE

1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL BRANCH VANCOUVER - RELO

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Bicsi
KEVIN BRENNAN
REG.No.166050
EXPIRES 12-31-25
RCDD

issue

no	date	issue	by
	05.12.2026	PERMIT / BID	KB

site location
JP MORGAN CHASE
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	drawn	date
KB	KB	05.12.2026
checked	scale	
BB	AS NOTED	

title
FIRST FLOOR ENLARGED RMER PLAN AND ELEVATIONS

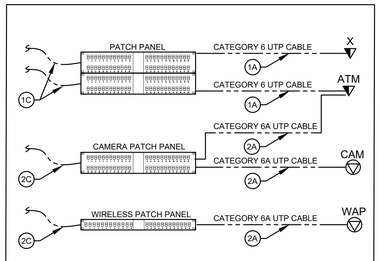
job no.
48200R0254765

sheet
TC-201

REMOTE/USER END PATCH CORD REQUIREMENTS			
OUTLET TYPE	CABLE CATEGORY	LENGTH	QTY PER OUTLET
WORK AREA OUTLET / CUBICLE / OFFICE (OUTLET TO PHONE)	CAT 6	7 FOOT	1
WORK AREA OUTLET / CUBICLE / OFFICE (PHONE TO COMPUTER)	CAT 6	5 FOOT	1
PRINTER	CAT 6	7 FOOT	1
ATM OUTLETS	CAT 6	15 FOOT	1
WALL PHONE OUTLET	CAT 6	6 INCH	1
IP-CCTV CAMERA INTEGRAL TO ATM	CAT 6A	15 FOOT	1
INTERIOR CELLULAR ANTENNA	SHIELDED CAT 6A	10 FOOT	1
RMER / RTR END PATCH CORD REQUIREMENTS			
PATCH PANEL TYPE	CABLE TYPE	LENGTH	QTY PER PORT
CAT6 UTP PATCH PANEL SHORTER PULL	CAT 6	7 FOOT	1
CAT6 UTP PATCH PANEL LONGER PULL	CAT 6	10 FOOT	1
CAT6A UTP PATCH PANEL SHORTER PULL	CAT 6A	7 FOOT	1
CAT6A UTP PATCH PANEL LONGER PULL	CAT 6A	10 FOOT	1
SERVER	CAT 6	10 FOOT	1
DVR	CAT 6	10 FOOT	1
UPS	CAT 6	10 FOOT	1
ROUTER	CAT 6	10 FOOT	1
CARRIER BACKBOARD	CAT 6	3 FOOT	2
5G CELLULAR ANTENNA	SHIELDED CAT 6A	7 FOOT	2

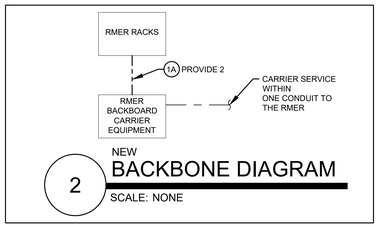
CONFIRM LENGTHS AND QUANTITIES PRIOR TO ORDERING. PULL/PATCH SCHEDULE TEMPLATE SHALL BE PROVIDED BY THE JPMC GTI PM AND TC SHALL BE RESPONSIBLE FOR FILLING THE REQUIRED COLUMNS AS DIRECTED. LENGHTS NOTED ARE FOR CONTRACTOR PRICING PURPOSES. EXACT LENGTHS SHALL BE FIELD VERIFIED PRIOR TO PURCHASING.

FOR RMER/RTR END, THE CONTRACTOR SHALL ORDER PATCH CORD LENGTHS SO THAT NO MORE THAN 1' OF SLACK IS INCLUDED IN EACH PATCH CORD AFTER INSTALLATION. THEREFORE, THE TC SHALL FIELD MEASURE THE REQUIRED LENGTHS. THE LENGTHS SHOWN ABOVE ARE FOR PRICING PURPOSES ONLY.



REFER TO SHEET TC-302 FOR SPECIFIC OUTLET CONFIGURATIONS.

1 NETWORK DIAGRAM
SCALE: NONE



2 NEW BACKBONE DIAGRAM
SCALE: NONE

CABLE SCHEDULE				
TYPE	NUMBER	DESCRIPTION	MANUFACTURER	MODEL NUMBER
INTERIOR CATEGORY 6 UTP	1A	CATEGORY 6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700210198 (REEL) 700214372 (BOX)
	1B	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/ SYSTIMAX	700211923 (REEL) 700211931 (BOX)
	1C	CATEGORY 6 PATCH CORD	COMMSCOPE/ SYSTIMAX	CPC3312-03F0##, WHERE ## = LENGTH
INTERIOR CATEGORY 6A UTP	2A	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105940 (REEL) 760107268 (BOX)
	2B	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/ SYSTIMAX	760105817
	2C	CATEGORY 6A, PATCH CORD	COMMSCOPE/ SYSTIMAX	CPCSSX2-08F0##, WHERE ## = LENGTH
INTERIOR CATEGORY 6A F/UTP	3A	SHIELDED CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE	COMMSCOPE/ SYSTIMAX	760122630
	3B	SHIELDED CATEGORY 6A, F/UTP BLUE PATCH CORD	COMMSCOPE/ SYSTIMAX	CPCGGK2-0ZF0## WHERE ## = LENGTH
EXTERIOR CATEGORY 6 UTP	4A	CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/ SYSTIMAX	760008888
	4B	CATEGORY 6, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15542-01F0##, WHERE ## = LENGTH
EXTERIOR CATEGORY 6A UTP	5A	CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/ SYSTIMAX	760178129
	5B	CATEGORY 6A, OSP RATED, PATCH CORD	COMMSCOPE/ SYSTIMAX	CO15582-01F0##, WHERE ## = LENGTH
EXTERIOR CATEGORY 6A F/UTP	6A	EXTERIOR RATED SHIELDED CATEGORY 6A, HORIZONTAL F/UTP BLUE CABLE	COMMSCOPE/ SYSTIMAX	760178129
NOTES	A. FOR PATCH CORDS WITHOUT AN EXACT LENGTH SPECIFIED, THE CONTRACTOR SHALL DETERMINE THE LENGTH SO THERE IS NO MORE THAN 1' OF SLACK ON EACH END. B. ALL CABLE TYPES LISTED ABOVE MAY NOT BE USED ON EVERY PROJECT. C. NON-PLENUM CABLES CAN ONLY BE USED WHEN EITHER THE CABLING IS TOTALLY WITHIN CONDUIT OR THE HVAC SYSTEM HAS A DUCTED AIR RETURN.			

CABLING INSTALLATION GENERAL NOTES:

A. CABLES ROUTED IN WALLS AND COLUMNS SHALL BE IN CONDUIT STUB-UPS. CABLES ROUTED IN FLOOR SLAB SHALL BE IN CONDUIT. ANY CABLE ROUTES THAT ARE NOT IN JPMC OWNED SPACE SHALL BE IN CONDUIT. (TC TO COORDINATE WITH EC FOR CONDUIT QUANTITIES, PLACEMENT AND SIZING).

B. CABLE PATHWAYS ARE SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY. ACTUAL PATHWAYS MAY BE DIFFERENT. TC SHALL VERIFY CABLE PATHWAYS AND RACK TERMINATION LOCATION OF THE CABLES IN THE FIELD PRIOR TO PULLING ANY CABLES.

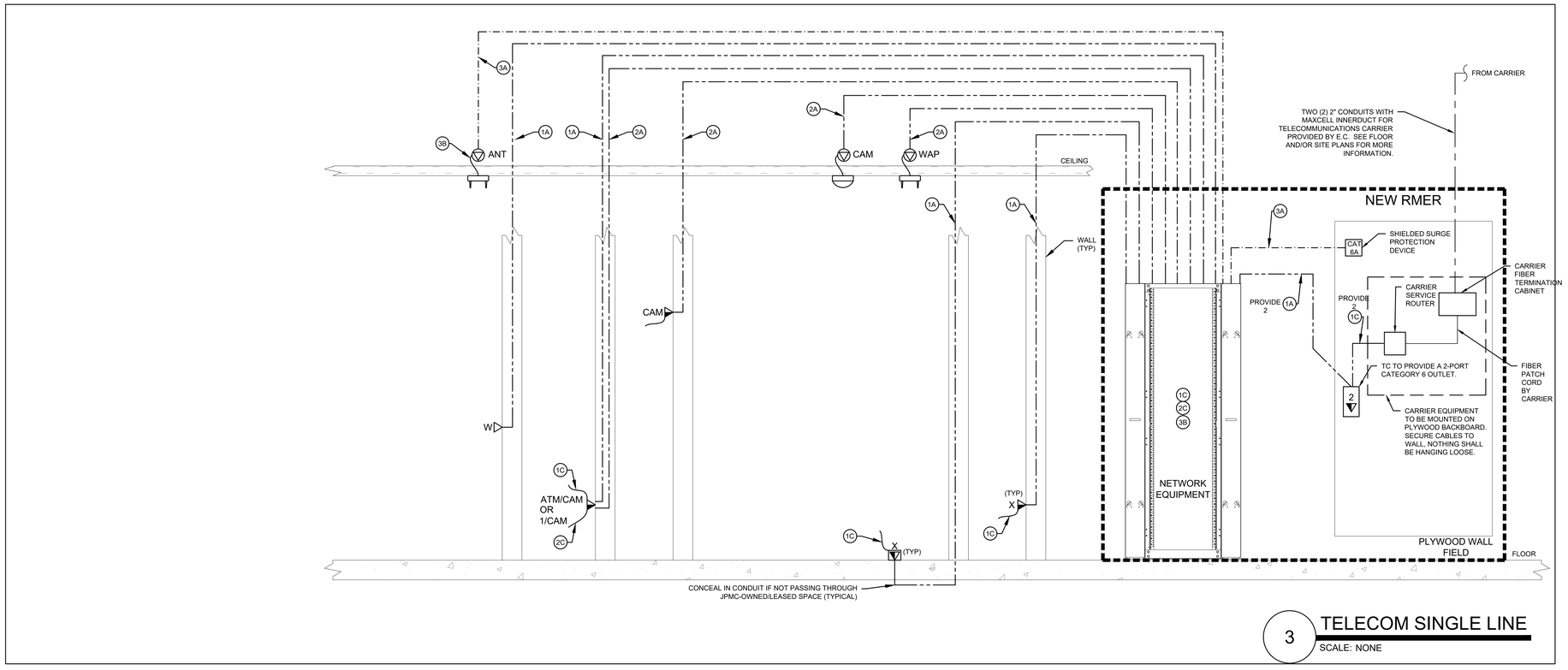
C. THE SINGLE LINE DIAGRAM IS DIAGRAMMATIC FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR DISTANCE CALCULATIONS OR QUANTITY TAKE-OFFS.

D. ALL CABLING RUNS THAT REMAIN WITHIN JPMC AREAS SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH ALL JPMC STANDARDS. ALL CABLING THAT IS RUN IN COMMON BUILDING AREAS AND OTHER TENANT SPACES MUST BE IN CONDUIT FOR THE FULL RUN OUTSIDE OF JPMC AREAS SUCH THAT NO JPMC CABLING IS ACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL. JUNCTION AND PULL BOXES AND OTHER ACCESS POINTS REQUIRED IN COMMON AREAS SHALL BE PROVIDED WITH LOCKS SO THAT THE CABLING IS INACCESSIBLE TO ANYONE OTHER THAN JPMC PERSONNEL.

E. FOR EACH CAT 6 AND CAT 6A CABLING LEAVING THE BUILDING TO SERVE EXTERIOR ISLAND ATM'S, ATM CANOPY CAMERAS AND EXTERIOR POLE MOUNTED CAMERAS, PROVIDE A SURGE PROTECTION DEVICE WITHIN THE RMER AT THE LOCATION OF SLAB PENETRATION.

CABLE LINETYPE LEGEND

- UTP 4-PAIR CABLE
- F/UTP 4-PAIR CABLE
- CARRIER FIBER OPTIC DEMARC EXTENSION CABLE
- SINGLE MODE FIBER OPTIC BACKBONE CABLE



3 TELECOM SINGLE LINE
SCALE: NONE

JPMorganChase

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BUILDING TECHNOLOGY INFRASTRUCTURE

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	05.12.2026	PERMIT / BID	KB

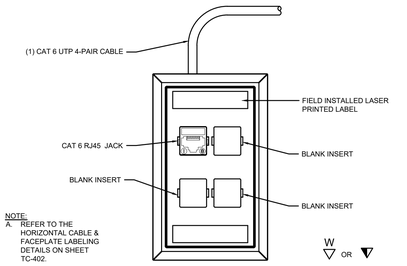
site location **JP MORGAN CHASE MAIN ST AND 13TH VANCOUVER WA 98660 BUILDING ID: 601795**

designed	KB	drawn	KB	date	05.12.2026
checked	BB	scale	AS NOTED		

title **TELECOM SINGLE LINE DIAGRAM**

job no. 48200R0254765

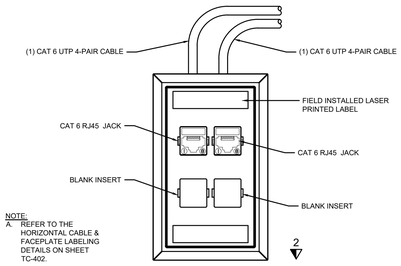
sheet **TC-301**



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

WALL MOUNTED PHONE AND 1-PORT
TYPICAL FLUSH MOUNT FACEPLATE

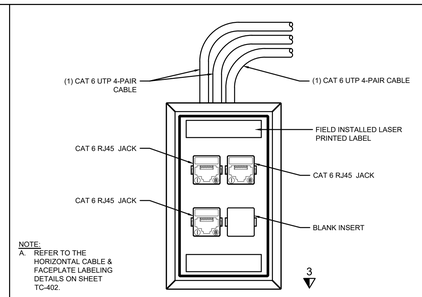
1 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

2-PORT
TYPICAL FLUSH MOUNT FACEPLATE

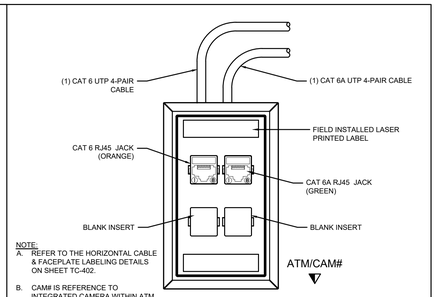
2 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

3-PORT
TYPICAL FLUSH MOUNT FACEPLATE

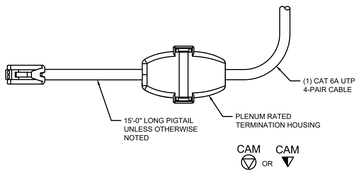
3 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.
B. CAM# IS REFERENCE TO INTEGRATED CAMERA WITHIN ATM.

ATM
TYPICAL FLUSH MOUNT FACEPLATE

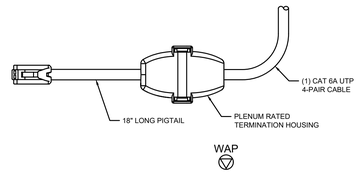
4 SCALE: NONE



NOTE:
A. CEILING CONNECTOR ASSEMBLY MUST BE SECURELY MOUNTED WITHIN THE BACKBOX.
B. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.
C. PROVIDE 18" LONG PIGTAIL ASSEMBLY WHEN MOUNTED WITHIN A BACKBOX, SUCH AS LIGHT POLE MOUNTED CAMERAS ON THE SITE AND DRIVE UP ATM OVERVIEW CANOPY CAMERAS.

TYPICAL OUTLET FOR SECURITY CAMERAS

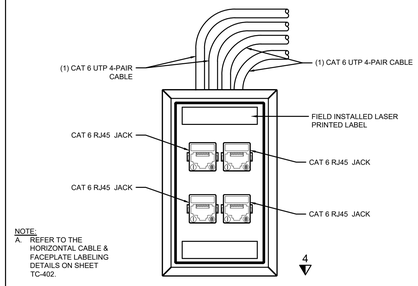
5 SCALE: NONE



NOTE:
A. CEILING CONNECTOR ASSEMBLY MUST BE SECURELY MOUNTED WITHIN THE BACKBOX.
B. REFERTO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

TYPICAL OUTLET FOR WAP DEVICES

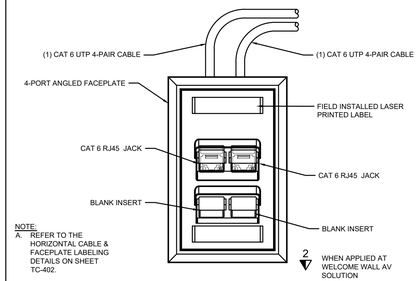
6 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

4-PORT
TYPICAL FLUSH MOUNT FACEPLATE

7 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

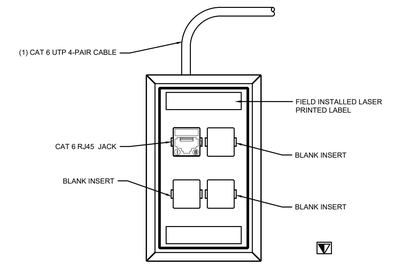
2-PORT
TYPICAL FLUSH MOUNT ANGLED FACEPLATE

8 SCALE: NONE

WORK AREA OUTLET SCHEDULE				
TYPE	DESCRIPTION	COLOR	MANUFACTURER	PART NUMBER
STANDARD JPMC NETWORK WORK AREA OUTLETS	CATEGORY 6 JACK	GRAY	COMMSCOPE/ SYSTIMAX	700206733
	ATM CATEGORY 6 JACK	ORANGE	COMMSCOPE/ SYSTIMAX	700206683
	FURNITURE MOUNTED FACEPLATE, 1 - 3 PORTS - FACEPLATE COLOR SHALL MATCH THE FURNITURE MATERIAL	WHITE GRAY BLACK	COMMSCOPE/ SYSTIMAX	106650898 106701154 106650864
	WALL MOUNTED FACEPLATE, 4-PORT	WHITE	COMMSCOPE/ SYSTIMAX	108168543
	WALL MOUNTED ANGLED FACEPLATE, 4-PORT	WHITE	COMMSCOPE/ SYSTIMAX	107713604
	WALL MOUNTED PHONE FACEPLATE	WHITE	COMMSCOPE/ SYSTIMAX	760100891
	FLOOR BOX MOUNTED FACEPLATE WITHIN FIRE RATED POKETHRU, 3 PORTS (108 FRAME) - COORDINATE WITH FLOOR BOX MANUFACTURER	WHITE	COMMSCOPE/ SYSTIMAX	108265455
	2-PORT PLENUM RATED SURFACE MOUNT BOX	WHITE	COMMSCOPE/ SYSTIMAX	760252768
WAP & CAMERA OUTLETS	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" PIGTAIL	WHITE	COMMSCOPE/ SYSTIMAX	760235592
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" PIGTAIL	WHITE	COMMSCOPE/ SYSTIMAX	C01SJ02-88F015
	WAP CATEGORY 6A JACK	WHITE	COMMSCOPE/ SYSTIMAX	760092429
	CAMERA CATEGORY 6A JACK	GREEN	COMMSCOPE/ SYSTIMAX	760092403
CELLULAR ANTENNA OUTLETS	WEATHERPROOF WHILE IN-USE 2-PORT BOX/FACEPLATE	WHITE	COMMSCOPE/ SYSTIMAX	760246284
	2-PORT PLENUM RATED SURFACE MOUNT BOX FOR SHIELDED APPLICATION	WHITE	COMMSCOPE/ SYSTIMAX	760252768
	CELLULAR ANTENNA SHIELDED CATEGORY 6A JACK WITH M-SERIES JACK ADAPTER (BLUE)	BLUE	COMMSCOPE/ SYSTIMAX	760152801 & 760154252
CARRIER CONNECTION OUTLETS	CARRIER CONNECTION CATEGORY 6 JACK	PURPLE	COMMSCOPE/ SYSTIMAX	700206675

STRUCTURED CABLING OUTLET SCHEDULE

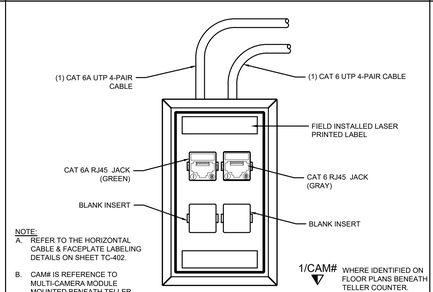
12 SCALE: NONE



NOTE:
A. MOUNT WITHIN FLOOR BOX, POKE-THRU, OR PEDASTAL BOX. COORDINATE WITH THE ELECTRICAL CONTRACTOR.
B. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON TC-402.

TYPICAL FLOOR MOUNTED FACEPLATE

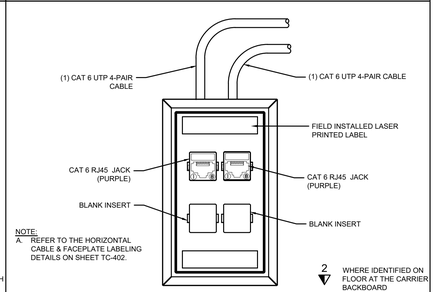
9 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.
B. CAM# IS REFERENCE TO MULTI-CAMERA MODULE MOUNTED BENEATH TELLER COUNTER.

TYPICAL DATA/CAMERA
FACEPLATE BENEATH TELLER COUNTER

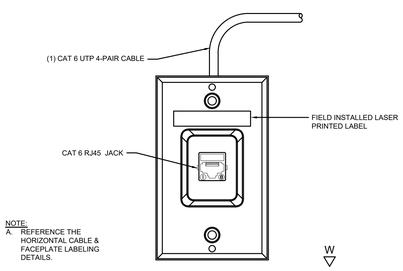
10 SCALE: NONE



NOTE:
A. REFER TO THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS ON SHEET TC-402.

TYPICAL CARRIER
CIRCUIT EXTENSION FACEPLATE

11 SCALE: NONE



NOTE:
A. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

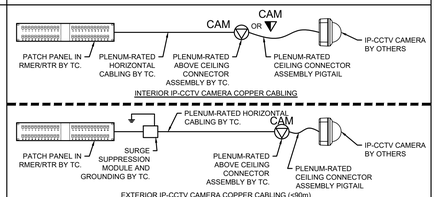
1-PORT TYPICAL
FLUSH WALL PHONE FACEPLATE

13 SCALE: NONE

COLOR CODING CHART	
CAT 6 CABLE	GRAY
CAT 6 PATCH CORD - STANDARD WALL OUTLET	GRAY
CAT 6 PATCH CORD - ATM WALL OUTLET	GRAY
CAT 6 CABLE FOR INNOVATION LAB NETWORK	GRAY
CAT 6A CABLE	WHITE
CAT 6A PATCH CORD - WIRELESS ACCESS POINT	WHITE
CAT 6A PATCH CORD - IP SECURITY CAMERA	WHITE
SHIELDED CAT 6A CABLE	BLUE
SHIELDED CAT 6A PATCH CORD	BLUE

STRUCTURED CABLING COLOR CODING

14 SCALE: NONE



PoE CABLING SCHEMATIC
IP-CCTV CAMERA INSTALLATION DETAIL

15 SCALE: NONE

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BUILDING TECHNOLOGY INFRASTRUCTURE
1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL
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issue

no	date	issue	by
	05.12.2026	PERMIT / BID	KB

site location **JP MORGAN CHASE**
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	KB	drawn	KB	date	05.12.2026
checked	BB	scale	AS NOTED		

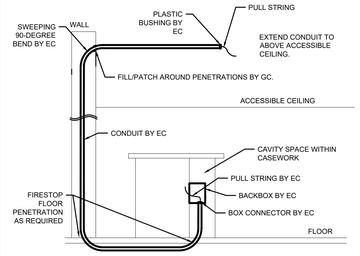
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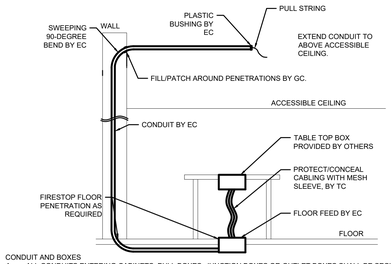
TELECOM TERMINATION DETAILS

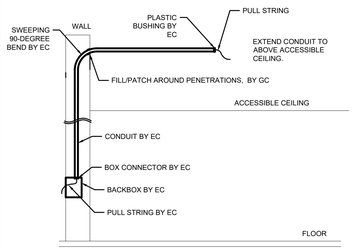
job no. 48200R0254765

sheet

TC-302







CONDUIT AND BOXES

A. ALL CONDUITS ENTERING CABINETS, PULL BOXES, JUNCTION BOXES OR OUTLET BOXES SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.

B. THE ENDS OF ALL CONDUITS UTILIZED FOR COMMUNICATIONS CABLING SHALL BE PROVIDED WITH NYLON PUSH-ON BUSHINGS AND A PULL STRING PROVIDED THROUGHOUT.

C. ALL CONDUIT RUNS SHALL HAVE A MAXIMUM OF TWO (2) 90 DEGREE BENDS PER CONDUIT RUN. WHEN MORE BENDS ARE NECESSARY IN A SINGLE RUN A PULL BOX SHALL BE INSTALLED. PULL BOXES SHALL NOT BE INSTALLED IN PLACE OF A 90 DEGREE BEND. PULL BOXES SHALL ALSO BE INSTALLED IN LONG RUNS AT A MAXIMUM SEPARATION OF 100'.

D. ALL CONDUITS, EXCEPT IN CONCRETE SLAB OR EARTH, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE COLUMN LINES OF THE BUILDING.

E. CONDUITS THAT ARE NOT INSTALLED PLUMB AND ROUTED PERPENDICULAR TO THE STRUCTURAL COLUMN SUPPORTS OF THE BUILDING WILL NOT BE ACCEPTED.

F. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED WITHIN THE BUILDING CONSTRUCTION WHEN INSTALLED IN FINISHED INTERIOR OR EXTERIOR AREAS.

G. ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED BY USE OF PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE A RIGID INSTALLATION. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READILY REMOVAL OF OTHER PIPE FOR REPAIRS.

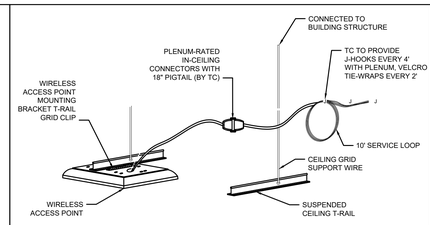
H. UNLESS OTHERWISE NOTED, INSTALL ALL OUTLET BOXES VERTICALLY.

I. INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS INDICATED ON THE PLANS. COMMUNICATION OUTLET BOXES ADJACENT TO ELECTRIC OUTLETS SHALL BE INSTALLED AT THE SAME MOUNTING HEIGHT. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

PULL BOXES

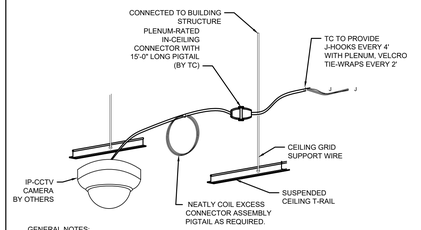
A. PULL BOXES SHALL BE PROVIDED IN THE SIZES AS INDICATED ON THE PLANS.
B. PULL BOXES SHALL HAVE HOLES PUNCHED OR CORED THROUGH THE ENCLOSURE BODY TO PROVIDE ACCESS INTO THE ENCLOSURE FOR THE CONDUITS INDICATED ON THE PLANS.
C. ALL CONDUITS ENTERING THE PULL BOX SHALL BE SECURED WITH SET-SCREW TYPE BOX CONNECTORS.
D. PULL BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT PROVIDES EASY ACCESS INTO THE INSTALLED ENCLOSURE THROUGH THE REMOVABLE COVER.
E. UNDER NO CIRCUMSTANCE SHALL A PULL BOX BE INSTALLED WITH THE COVER FACING UP. UNLESS CONDUITS ENTERING THE BOX MUST BE STACKED VERTICALLY, ALL PULL BOXES SHALL BE INSTALLED WITH THE COVER FACING DOWN.
F. PULL BOX LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE ADEQUATE CLEARANCE BETWEEN THE PULL BOX COVER AND ANY OTHER OBJECT. THE MINIMUM CLEARANCE REQUIRED SHALL BE SIX TIMES THE DIAMETER OF THE LARGEST CONDUIT ENTERING THE PULL BOX.

1 OUTLET ROUGH-IN REQUIREMENTS
SCALE: NONE



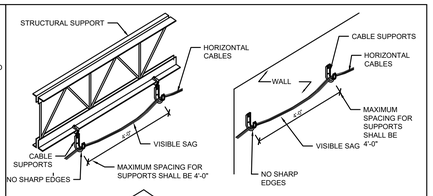
NOTES:
A. WAPs FURNISHED BY JPMC, INSTALLED BY TC.
B. TC SHALL DOCUMENT MAC ADDRESS AND WAP ID NUMBER FOR AS-BUILTS.
C. PATCH WAP PORTS LABELED: POE/mGig & CONSOLE

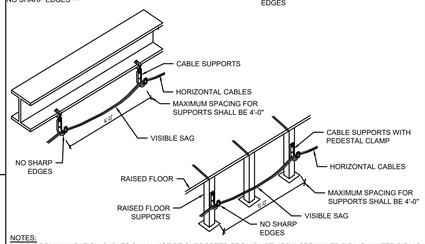
2 WAP DROP CEILING INSTALLATION DETAIL
SCALE: NONE



GENERAL NOTES:
A. IP-CCTV CAMERA FURNISHED AND INSTALLED BY OTHERS.

3 INTERIOR ACCESSIBLE CEILING MOUNTED IP-CCTV CAMERA INSTALLATION DETAIL
SCALE: NONE





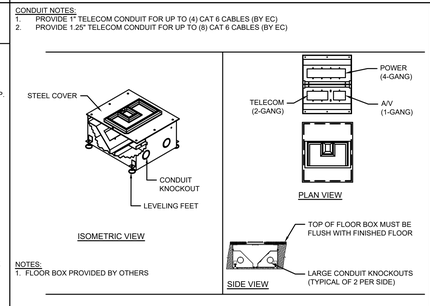
NOTES:
1. TELECOMMUNICATION CABLES SHALL NOT BE SUPPORTED FROM DUCTWORK, SPRINKLER PIPING, WATER PIPING, WASTE PIPING OR ELECTRICAL CONDUIT. TELECOMMUNICATION CABLES SHALL NOT BE ROUTED ABOVE STRUCTURAL STEEL.
2. TELECOMMUNICATION CABLES SHALL RUN PARALLEL OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE AND SHALL NOT RUN DIAGONALLY ACROSS CEILING SPACE.
3. TELECOMMUNICATION CABLE SUPPORTS SHALL BE PROPERLY ANCHORED TO BUILDING SUPPORT STRUCTURE LOCATED THRU-OUT IN LOCATIONS THAT CABLE TRAY IS NOT USED.
4. TELECOMMUNICATION CABLES SHALL BE INSTALLED WITH AT LEAST 3" OF CLEAR VERTICAL SPACE ABOVE ANY COMPONENT OF THE SUSPENDED CEILING.
5. J-HOOKS SHALL BE INSTALLED WITHIN (1) ONE FOOT OF THE BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND WITHIN (1) ONE FOOT OF ANY BEND GREATER THAN 60 DEGREES.
6. ALL J-HOOKS SHALL BE ATTACHED SECURELY TO THE CEILING JOISTS OR CONCRETE DECK ABOVE UTILIZING THE MANUFACTURER'S RECOMMENDED HARDWARE AND INSTALLATION PRACTICES. CONTRACTOR SHALL UTILIZE UNISTRUT AND THREADED ROD ASSEMBLIES TO MAINTAIN THE (4) FOUR FOOT CENTER TO CENTER REQUIREMENT BETWEEN CEILING JOIST MEMBERS AS REQUIRED.
7. COMPONENTS:
   a. J-HOOKS: COPPER, CADDY, OR PANDUIT
   b. SCREW-ON BEAM CLAMP: PANDUIT JP2SBC50RB-L20
   c. HAMMER-ON BEAM CLAMP: PANDUIT JP2HBC25RB-L20
   d. PURLIN CLIP FOR ANGLED FLANGES: PANDUIT JP131ZP-L20
   e. PURLIN CLIP FOR VERTICAL FLANGES: PANDUIT JP131CP-L20
   f. UNDER RAISED FLOOR CLAMP: PANDUIT JP131UF100-L20

4 OPEN CABLE SUPPORT DETAIL
SCALE: NONE

GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED OTHERS.
B. EXTEND THE CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.
C. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.
D. THE BOTTOM OF THE BACKBOX SHALL BE 2" LOWER THAN THE BOTTOM OF THE LIGHT FIXTURES OFF OF THE FINISHED FLOOR.

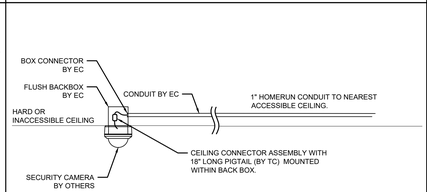
6 OPEN-TO-STRUCTURE CEILING SECURITY CAMERA INSTALLATION DETAIL
SCALE: NONE

CONDUIT NOTES:
1. PROVIDE 1" TELECOM CONDUIT FOR UP TO (4) CAT 6 CABLES (BY EC)
2. PROVIDE 1.25" TELECOM CONDUIT FOR UP TO (8) CAT 6 CABLES (BY EC)



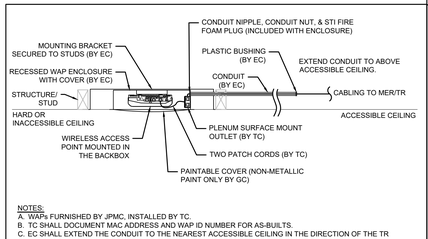
NOTES:
1. FLOOR BOX PROVIDED BY OTHERS

7 STANDARD FLOOR BOX DETAIL
SCALE: NONE



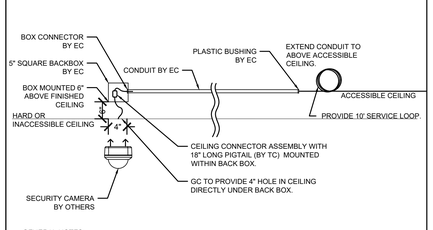
GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED. TC TO FIELD VERIFY LENGTH REQUIRED BASED ON CONDUIT INSTALLATION.
C. EXTEND THE CONDUIT TO THE RMER.
D. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

8 CANOPY MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE: NONE



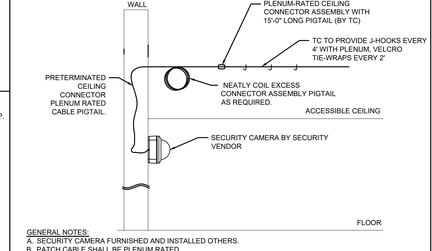
NOTES:
A. WAPs FURNISHED BY JPMC, INSTALLED BY TC.
B. TC SHALL DOCUMENT MAC ADDRESS AND WAP ID NUMBER FOR AS-BUILTS.
C. EC SHALL EXTEND THE CONDUIT TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE TR SERVING THE OUTLET.
D. PROVIDE OBERON MODEL 1443-FXL FOR NEW CONSTRUCTION INSTALLATIONS (WHERE THE CEILING HASN'T BEEN INSTALLED YET).

9 HARD-CEILING RECESS MOUNTED WAP INSTALLATION DETAIL - NEW CONSTRUCTION
SCALE: NONE



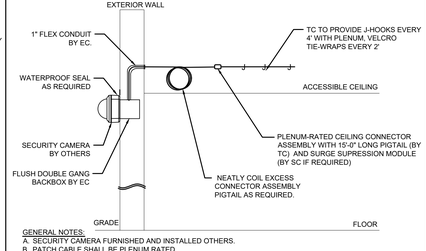
GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED. TC TO FIELD VERIFY LENGTH REQUIRED BASED ON CONDUIT INSTALLATION.
C. EXTEND THE CONDUIT TO ABOVE THE NEAREST ACCESSIBLE CEILING.
D. BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

10 HARD-CEILING MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE: NONE



GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED.
C. WHERE A HARD CEILING IS PRESENT NEAR THE CAMERA LOCATION, EC SHALL PROVIDE A 1" FLEXIBLE CONDUIT FROM THE WALL CAVITY TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE RMER/RTR SERVING THE OUTLET.
D. CAMERA MOUNTING HEIGHT, BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

11 INTERIOR WALL MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE: NONE



GENERAL NOTES:
A. SECURITY CAMERA FURNISHED AND INSTALLED OTHERS.
B. PATCH CABLE SHALL BE PLENUM RATED.
C. WHERE A HARD CEILING IS PRESENT NEAR THE CAMERA LOCATION, EC SHALL PROVIDE A 1" FLEXIBLE CONDUIT FROM THE WALL CAVITY TO THE NEAREST ACCESSIBLE CEILING IN THE DIRECTION OF THE RMER/RTR SERVING THE OUTLET.
D. CAMERA MOUNTING HEIGHT, BACKBOX SIZE, AND CONDUIT SIZE SPECIFIED BY SECURITY ENGINEER.

12 EXTERIOR WALL MOUNTED SECURITY CAMERA INSTALLATION DETAIL
SCALE: NONE

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site location **JP MORGAN CHASE**
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	drawn	date
KB	KB	05.12.2026
checked	scale	
BB	AS NOTED	

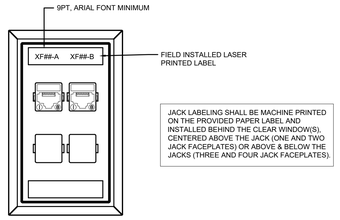
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TELECOM INSTALLATION DETAILS

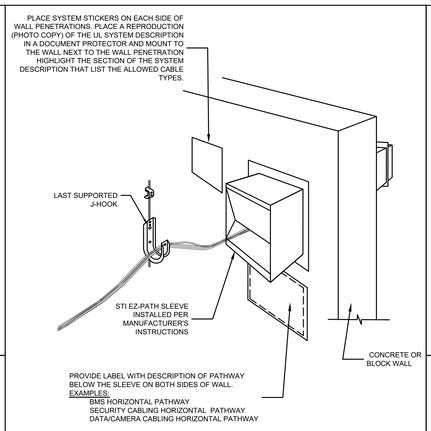
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TC-401



1 FACEPLATE LABELING CONFIGURATION
SCALE:NONE
(GRID OUTLET NUMBERING)



NOTES:

A. BEFORE BEGINNING INSTALLATION, VERIFY THAT SUBSTRATE CONDITIONS PREVIOUSLY INSTALLED UNDER OTHER SECTIONS ARE ACCEPTABLE FOR INSTALLATION OF FIRESTOPPING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND TECHNICAL INFORMATION.

B. SURFACES SHALL BE FREE OF DIRT, GREASE, OIL, SCALE, LAITANCE, RUST, RELEASE AGENTS, WATER REPELLANTS, AND ANY OTHER SUBSTANCES THAT MAY INHIBIT OPTIMUM ADHESION.

C. PROVIDE MASKING AND TEMPORARY COVERING TO PROTECT ADJACENT SURFACES.

D. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

E. GENERAL: INSTALL SYSTEMS IN ACCORDANCE WITH PERFORMANCE CRITERIA AND IN ACCORDANCE WITH THE CONDITIONS OF TESTING AND CLASSIFICATION AS SPECIFIED IN THE PUBLISHED DESIGN.

F. MANUFACTURER'S INSTRUCTIONS: COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF PRODUCTS.

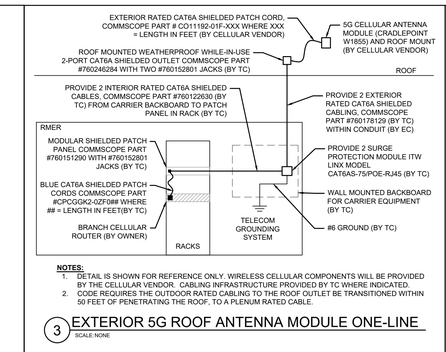
G. KEEP AREAS OF WORK ACCESSIBLE UNTIL INSPECTION BY AUTHORITIES HAVING JURISDICTION.

H. WHERE DEFICIENCIES ARE FOUND, REPAIR FIRESTOPPING PRODUCTS SO THEY COMPLY WITH REQUIREMENTS.

I. REMOVE EQUIPMENT, MATERIALS, AND DEBRIS, LEAVING AREA IN UNDAMAGED, CLEAN CONDITION.

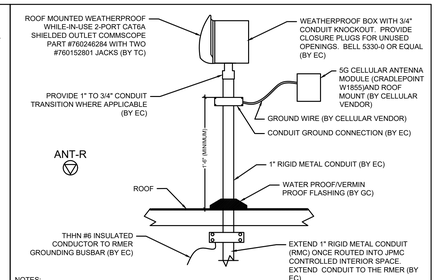
J. CLEAN ALL SURFACES ADJACENT TO SEALED OPENINGS TO BE FREE OF EXCESS FIRESTOPPING MATERIALS AND SOILING AS WORK PROGRESSES.

2 CABLE BUNDLE THROUGH PENETRATION DETAIL FOR WALL CONSTRUCTION
SCALE:NONE



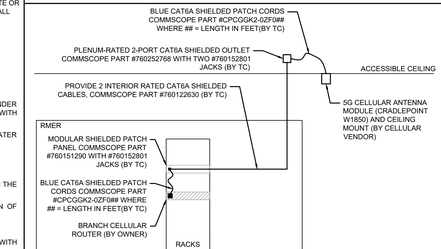
NOTES:
1. DETAIL IS SHOWN FOR REFERENCE ONLY. WIRELESS CELLULAR COMPONENTS WILL BE PROVIDED BY THE CELLULAR VENDOR. CABLING INFRASTRUCTURE PROVIDED BY TC WHERE INDICATED.
2. CODE REQUIRES THE OUTDOOR RATED CABLING TO THE ROOF OUTLET BE TRANSITIONED WITHIN 50 FEET OF PENETRATING THE ROOF, TO A PLENUM RATED CABLE.

3 EXTERIOR 5G ROOF ANTENNA MODULE ONE-LINE
SCALE:NONE



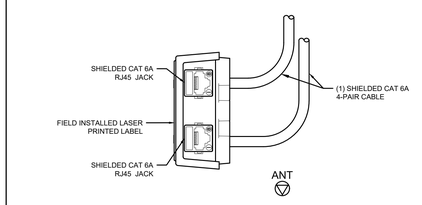
NOTES:
1. FOR REFERENCE ONLY. EC SHALL COORDINATE INSTALLATION METHOD WITH GC AND ROOF CONTRACTOR AND APPROVAL FROM BUILDING OWNER/MANAGEMENT.

4 EXTERIOR 5G ROOF ANTENNA PATHWAY DETAIL
SCALE:NONE



NOTES:
1. DETAIL IS SHOWN FOR REFERENCE ONLY. WIRELESS CELLULAR COMPONENTS WILL BE PROVIDED BY THE CELLULAR VENDOR. CABLING INFRASTRUCTURE PROVIDED BY TC WHERE INDICATED.

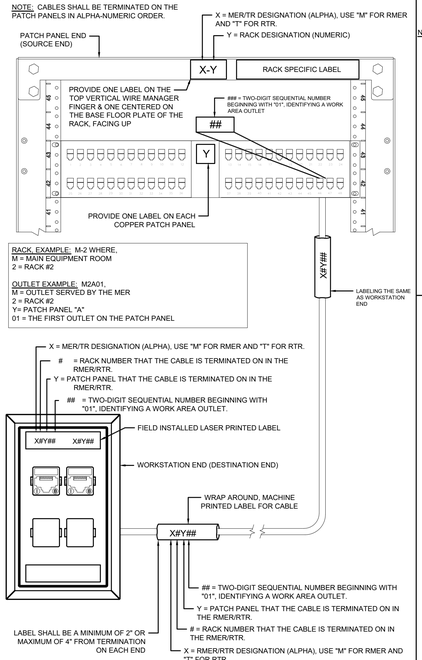
5 INTERIOR 5G CEILING ANTENNA MODULE ONE-LINE
SCALE:NONE



NOTE:
A. SURFACE MOUNT BOX MUST BE SECURELY MOUNTED TO PERMANENT BUILDING STRUCTURE OR T-BAR BACKBOX HANGER.
B. REFERENCE THE HORIZONTAL CABLE & FACEPLATE LABELING DETAILS.

6 PLENUM CEILING SURFACE MOUNTED BOX FOR 5G CELLULAR ANTENNA MODULE
SCALE:NONE

NOTE: CABLES SHALL BE TERMINATED ON THE PATCH PANELS IN ALPHA-NUMERIC ORDER.

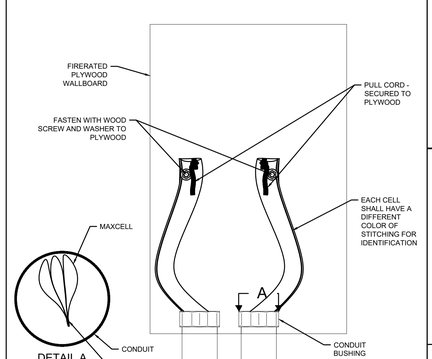


NOTES:
A. IF LABEL IS AFFIXED TO A BLACK OR DARK GRAY SURFACE, LABEL INFORMATION SHALL BE WHITE IN COLOR. IF LABEL IS AFFIXED TO BEIGE OR LIGHT-COLORED SURFACE, LABEL INFORMATION SHALL BE BLACK IN COLOR.

B. COPPER PATCH PANEL LABELS SHALL EMPLOY MANUFACTURER-SUPPLIED LABELING MATERIALS AND COVERS (IF APPLICABLE), AFFIXED TO EACH PANEL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
1. COPPER PATCH PANEL LABELS SHALL BE WHITE IN COLOR.

C. ATM PATCH CORD WARNING LABELS SHALL BE MOUNTED ON SELF-LAMINATING CABLE MARKER HOLDERS THAT ARE SECURELY AFFIXED TO THE PATCH CORD WITH VELCRO TIES.

7 STRUCTURED CABLING LABELING
SCALE:NONE

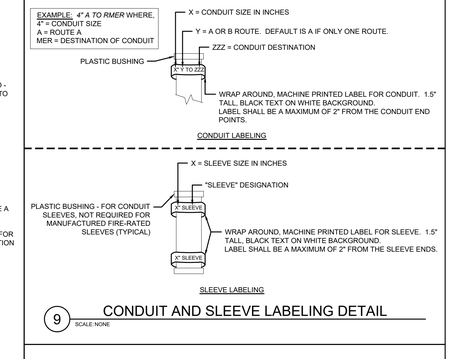


NOTES:
1. FOR EACH 2 INCH CONDUIT, INSTALL (1) 2 IN - 3 CELL MAXCELL INNERDUCT.
2. UNLESS WAIVED IN WRITING BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL ENGAGE MANUFACTURER PRIOR TO THE PULL TO ASSURE RECOMMENDED INSTALLATION METHODS ARE FOLLOWED.
3. A BALL BEARING SWIVEL (BULL NOSE SWIVEL) MUST ALWAYS BE USED BETWEEN THE PULL ROPE AND MAXCELL. FAILURE TO DO SO MAY RESULT IN PULL ROPE OR TAPE INDUCING TWIST, CAUSING THE MAXCELL TO TWIST EXCESSIVELY AND MAY MAKE IT DIFFICULT TO PULL CABLE.
4. CELL ASSIGNMENTS MUST BE DOCUMENTED AT EACH APPEARANCE OF THE INNER DUCT.
5. EXCEPT WHERE NOTED, CONDUIT THAT IS 50 MM (2 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 2" 3-CELL SOFT DUCT QUANTITY 1. CONDUIT THAT IS 75 MM (3 IN) SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2; AND 100 MM (4 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 3" 3-CELL SOFT DUCT, MAXIMUM QUANTITY
6. WHEN 3" 3-CELL SOFT DUCT IS TOO SMALL TO ACCOMMODATE LARGE DIAMETER CABLES AND LARGE O.D. FACTORY TERMINATED PULLING GRIPS, CONDUIT THAT IS 75 MM (3 IN) SHOULD BE EQUIPPED WITH 4" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 1; AND 100 MM (4 IN) IN DIAMETER SHOULD BE EQUIPPED WITH 4" 3-CELL SOFT DUCT, MAXIMUM QUANTITY 2.
7. THE OUTSIDE DIAMETER OF PULLING GRIPS ASSOCIATED WITH FACTORY TERMINATED FIBER TRUNK CABLES WILL AFFECT THE SELECTION OF SOFT DUCT. SEE TABLE 1 FOR DETAIL.

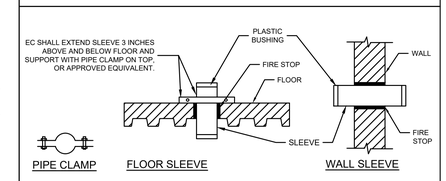
TABLE 1 - SOFT DUCT SIZING GUIDELINE

MAXIMUM CABLE/GRIP DIAMETER PER CELL MM(IN)	CELL SIZE
18 (.7)	2"
26 (1.03)	3"
34 (1.34)	4"
>34 (1.34)	SEE OPR

8 TYPICAL MAXCELL 2", 3-CELL INNERDUCT
SCALE:NONE



9 CONDUIT AND SLEEVE LABELING DETAIL
SCALE:NONE



NOTES:
1. CLEAN CORE DRILL, ONE SIZE LARGER THAN SLEEVE.
2. PACK VOID BETWEEN SLEEVE AND FLOOR WITH NON-SHRINK, WATER TIGHT, APPROVED FIRE RATED MATERIAL.
3. INSTALL PLASTIC BUSHINGS AT BOTH ENDS.

LOCATION: TYPICAL FOR ALL RETAIL TELECOM ROOMS / RETAIL MAIN EQUIPMENT ROOMS, SEE DRAWINGS FOR ALL PENETRATION LOCATIONS AND FIELD COORDINATE

10 TYPICAL FLOOR AND WALL SLEEVE PENETRATION DETAILS
SCALE:NONE

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	05.12.2026	PERMIT / BID	KB

site location **JP MORGAN CHASE MAIN ST AND 13TH VANCOUVER WA 98660 BUILDING ID: 601795**

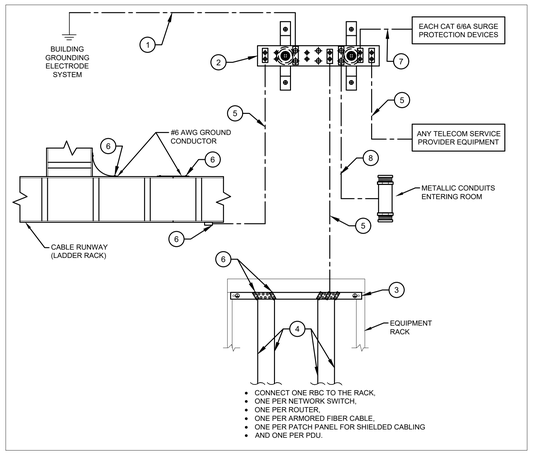
designed	drawn	date
KB	KB	05.12.2026
checked: BB	scale: AS NOTED	

title

TELECOM INSTALLATION DETAILS

job no. 48200R0254765

sheet **TC-402**



DETAIL NOTES:

A. DEFINITIONS:
- A.1. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC)
- A.2. SECONDARY BONDING BUSBAR (SBB)
- A.3. RACK BONDING BUSBAR (RBB)
- A.4. RACK BONDING CONDUCTORS (RBC)
- A.3. TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC)

B. THE TBC SHALL BE SIZED BASED ON THE CONDUCTOR'S LENGTH. THE CONDUCTOR SHALL BE A STRANDED GROUNDING CONDUCTOR WITH A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END. PROVIDE A #6AWG FOR LENGTHS UP TO 100FT, #4AWG FOR LENGTHS GREATER THAN 100FT UP TO 200FT, #2AWG FOR LENGTHS GREATER THAN 200FT UP TO 400FT, #1AWG FOR LENGTHS GREATER THAN 400FT UP TO 500FT, #1/0AWG FOR LENGTHS GREATER THAN 500FT UP TO 600FT, #2/0AWG FOR LENGTHS GREATER THAN 600FT UP TO 700FT, #3/0AWG FOR LENGTHS GREATER THAN 700FT UP TO 800FT, AND #4/0AWG FOR LENGTHS GREATER THAN 800FT.

C. THE TEBC & THE RBC SHALL BE A MINIMUM OF A #6-AWG STRANDED GROUNDING CONDUCTOR AND A TWO (2) HOLE COPPER COMPRESSION LUG ON EACH END.

D. THE CONTRACTOR IS RESPONSIBLE FOR BONDING SECTIONS OF CABLE TRAY TOGETHER UTILIZING #6-AWG GROUNDING (EARTHING) STRAPS. THEN INSTALLING A #6-AWG GROUNDING (EARTHING) CONDUCTOR BETWEEN THE TRAY AND THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.

E. IF GROUNDING (EARTHING) MUST BE APPLIED TO A LOCATION WHERE BARE METAL IS NOT EXPOSED, THE COVERING (E.G. PAINT) SHALL BE FULLY REMOVED TO EXPOSE BARE METAL AND FACILITATE BONDING AT EACH SUCH BONDING POINT, NO GREATER THAN 12MM (.5IN) AND NO LESS THAN 6MM (.25IN) OF EXPOSED METAL SHALL REMAIN AFTER BONDING IS COMPLETED.

F. AFTER BOND HAS BEEN MADE, TC SHALL APPLY ANTI-OXIDANT JOINT COMPOUND OVER ANY AREA THAT BARE METAL IS EXPOSED BECAUSE OF SCRAPING.

G. RACK BONDING BUSSBARS (RBB) SHALL BE INSTALLED IN EACH RACK TO GROUND (EARTH) MULTIPLE PIECES OF EQUIPMENT OR PATCH PANELS FOR SHIELDED CABLING. THE RBB MUST BE BONDED TO THE RACK. THEN TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTORS (TEBC) CONNECT THE RBB ON EACH RACK, TO THE SBB IN THE ROOM.

H. THE T.C. IS RESPONSIBLE FOR FURNISHING AND INSTALLING A RACK BONDING BUSSBAR (RBB) AT ALL NEW EQUIPMENT RACKS AND CABINETS PER DESIGN DOCUMENTS. EACH RBB SHALL BE BONDED TO THE SBB THAT HAS BEEN INSTALLED IN THE ROOM.

I. DAISY CHAIN FROM ONE RBB TO NEXT RBB NOT PERMITTED.

J. A #6-AWG CONDUCTOR SHALL BE BONDED TO EACH RBB, THEN COILED AND STORED NEATLY AT EACH RACK FOR FUTURE USE.

K. WHERE ARMORED CABLE IS DEPLOYED, IT SHALL BE BONDED TO GROUND (EARTH) AT ONE END IN ACCORDANCE WITH AHJ AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

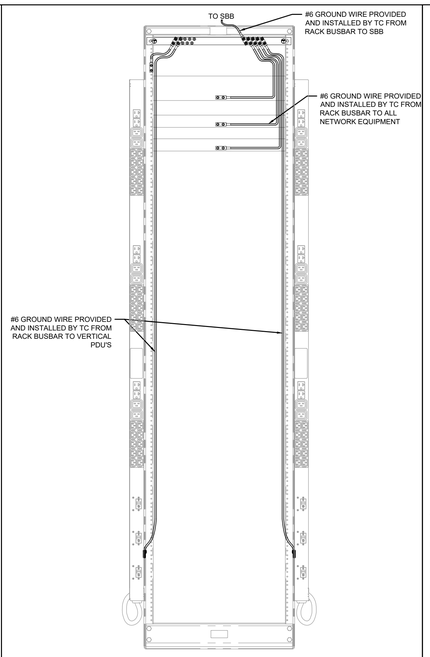
L. MATERIALS SHALL BE AS LISTED OR SHALL BE EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MEETING THE INTENT AND QUALITY LEVEL OF THIS SPECIFICATION. MATERIALS MUST BE COMPATIBLE WITH THE END TO END SOLUTION BEING PROPOSED. PROPOSALS FOR EQUIVALENT PRODUCTS MUST BE PRESENTED TO THE OPR BY RFI'S, SUBMITTALS, AND/OR SHOP DRAWINGS. OPR WRITTEN APPROVAL IS REQUIRED BEFORE ANY SUBSTITUTIONS ARE MADE.

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

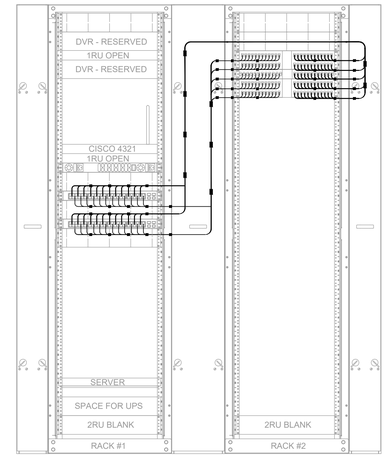
GROUNDING COMPONENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	PROVIDED BY
1	TBC	N/A	N/A	EC
2	SBB	PANDUIT	GB2B0304TPI-1	EC
3	RBB	PANDUIT	RGRB19U	TC
4	RBC	PANDUIT OR CPI	GJS6120U OR 40159-009	TC
5	TEBC	PANDUIT	GJS6180U	TC
6	TWO HOLE LONG BARREL LUGS	PANDUIT	LCC6 SERIES	TC
7	SURGE PROTECTION BONDING	N/A	N/A	TC
8	TEBC	PANDUIT	GJS6180U	EC

1 TELECOMMUNICATIONS GROUNDING SCHEMATIC
SCALE: NONE

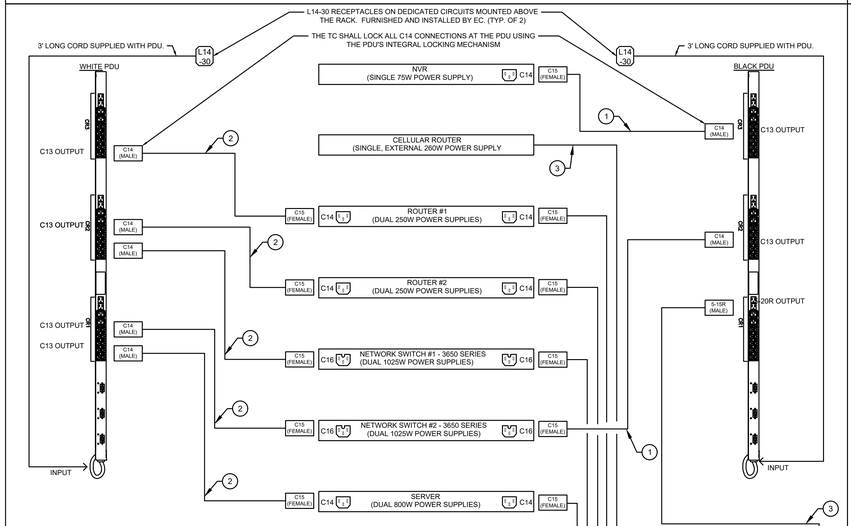


2 TYPICAL EQUIPMENT GROUNDING DETAIL
SCALE: NONE



GENERAL PATCH CORD DRESSING NOTES:
A. PATCH QUANTITIES SHALL BE CONFIRMED PRIOR TO ORDERING.
B. DETERMINATION OF PATCH CORD LENGTHS IS THE RESPONSIBILITY OF THE LOW VOLTAGE CONTRACTOR.
C. PATCH CORDS SHALL BE INSTALLED WITH MINIMAL SLACK.
D. PATCHING OF WIRELESS ACCESS POINTS AND SECURITY (CCTV) CAMERAS SHALL BE EVENLY DISTRIBUTED ON THE SWITCH(ES).
E. PATCH CORDS SHALL BE BUNDLED WITH VELCRO WITHIN VERTICAL WIRE MANAGERS.
F. PATCH CORDS SHALL BE BUNDLED WITH VELCRO FOR EACH SWITCH.
G. PATCH CORDS SHALL BE TIED BACK WITHIN VERTICAL WIRE MANAGERS.
H. ELEVATION SHOULD NOT BE USED FOR LENGTH TAKE OFF.
I. ELEVATION DOES NOT REPRESENT ACTUAL FIELD CONDITION AND SHOULD BE USED FOR REFERENCE INTENT ONLY.

3 TYPICAL PATCH CORD DRESSING
SCALE: NONE

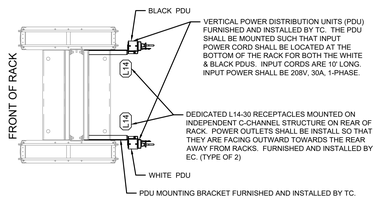


POWER CORD SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	ALTERNATE MANUFACTURER	ALTERNATE PART NUMBER
1	C15 TO C14, 6FT, BLACK	LEGRAND	2306-4913-06	WORLD CORD	1415-H-072
2	C15 TO C14, 6FT, WHITE	LEGRAND	2306-7705-06	WORLD CORD	1415-H-072-WHT
3	CORD PROVIDED WITH EQUIPMENT	N/A	N/A	N/A	N/A

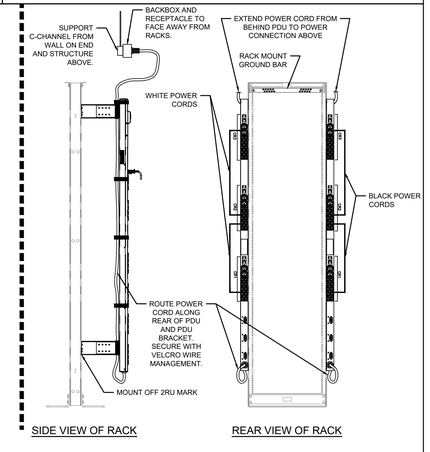
NOTE: THE "6FT" WITHIN THE PART NUMBER INDICATES LENGTH.

4 EQUIPMENT POWER CONNECTIONS SCHEMATIC
SCALE: NONE



NOTE: SEE THE RACK EQUIPMENT SCHEDULE ON THE ENLARGED MER/TR PLANS FOR PDU AND PDU MOUNTING BRACKET PART NUMBERS.

BRANCH CIRCUIT DISTRIBUTION:
1. REDUNDANT AND DIVERSELY FED A/B CIRCUITS TO RACKS IN DISCRETE CONDUITS (A & B CIRCUITS CANNOT SHARE A CONDUIT).
2. LOWEST ACCEPTABLE LEVEL OF REDUNDANCY IS TWO CIRCUITS DIVERSELY ROUTED FROM A COMMON BREAKER PANEL, BUT UPS REDUNDANCY SHOULD BE PROVIDED IF AVAILABLE.
3. CIRCUITS MUST BE DEDICATED INCLUDING DEDICATED NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR (EGC).
4. NO ISLOATED GROUND (IG) CIRCUITS UNLESS REQUIRED FOR SPECIFIC EQUIPMENT.
5. PROTECTED BY TRANSIENT VOLTAGE SURGE SURPRESSION (TVSS) DEVICE AT BREAKER PANEL SERVING THE TELECOM ROOM.
6. TC SHALL PROVIDE JPMC STANDARD BLACK AND WHITE POWER CORDS FOR NETWORK EQUIPMENT.



PDU MOUNTING NOTES:
A. TC SHALL MOUNT BRACKET TO THE INSIDE FACE OF THE REAR RAIL OF THE RACK.
B. TC SHALL MOUNT PDU TO BRACKET SO OUTLETS ARE FACING OUTSIDE THE RACK.
C. PLUG STRIP OUTLETS MUST BE FREE & CLEAR AND EASILY ACCESSIBLE.
D. TC SHALL PROVIDE A LABEL ON EACH PDU INDICATING THE ELECTRICAL CIRCUIT DESIGNATION. ON THE WHITE PDU, THE LABEL BACKGROUND SHALL BE WHITE WITH BLACK TEXT. ON THE BLACK PDU, THE LABEL BACKGROUND SHALL BE BLACK WITH WHITE TEXT.
E. TC SHALL GROUND THE PDU TO THE RACK-MOUNTED GROUND BAR.
F. POWER CORD OF PDU IS TO BE MOUNTED SO IT IS AT THE BOTTOM OF THE PDU. THE CORD SHOULD BE NEATLY ROUTED ALONG THE REAR OF THE PDU AND SECURED WITH VELCRO TIES ROUTED TO THE TOP OF THE PDU AND THEN EXTENDED TO THE POWER CONNECTION.

5 2-POST PDU MOUNTING DETAILS
SCALE: NONE

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BUILDING ID: 601795

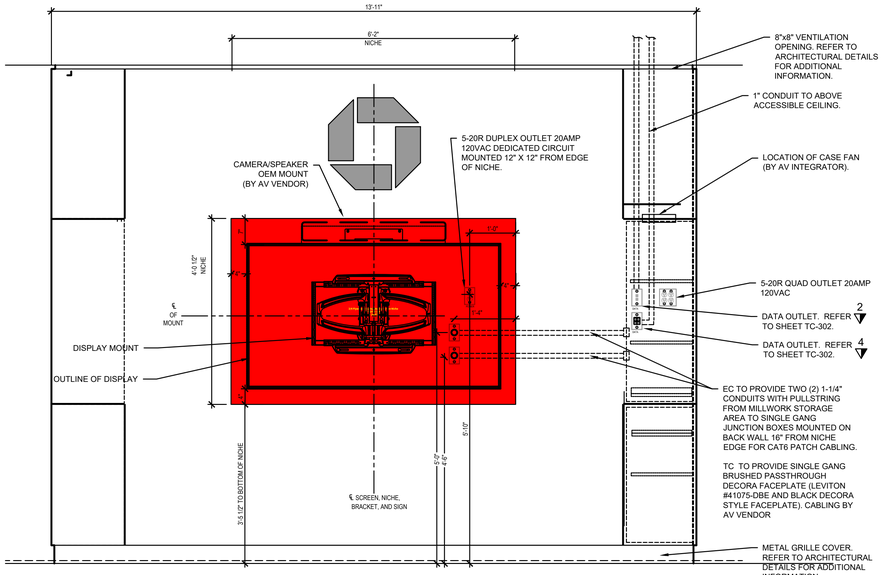
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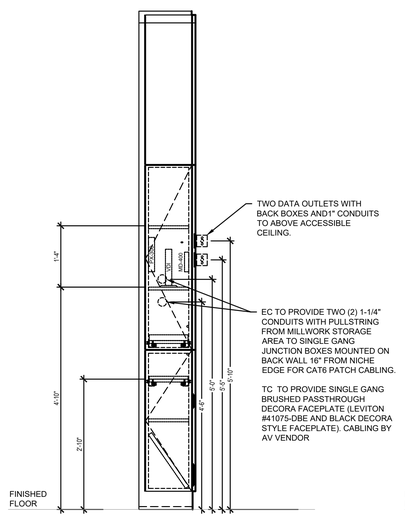
TELECOM INSTALLATION DETAILS

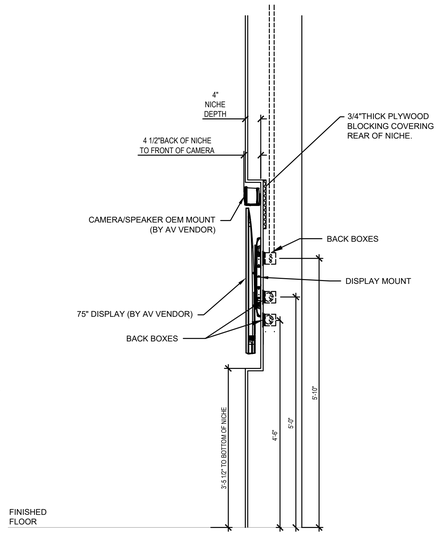
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sheet **TC-403**

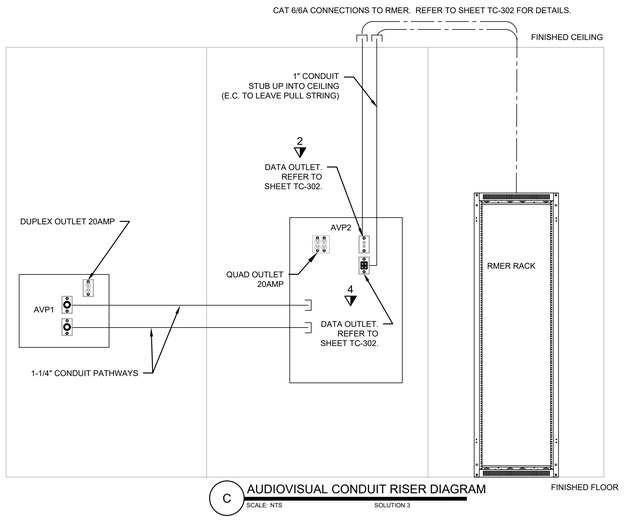


A AUDIOVISUAL 75" DISPLAY MOUNTING ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 3

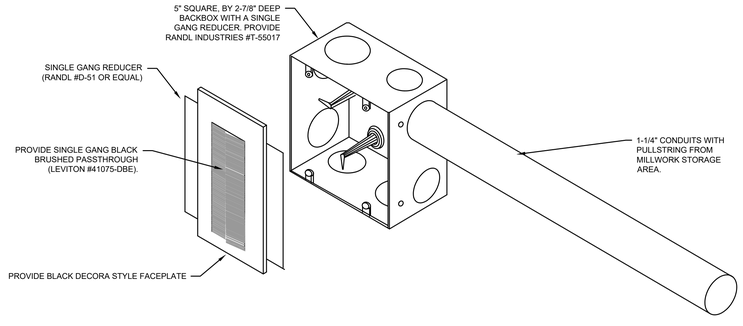




B AUDIOVISUAL 75" DISPLAY WALL SECTIONS
SCALE: 3/4"=1'-0" SOLUTION 3



C AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: NTS SOLUTION 3



D AV BACK BOX DETAIL (TYPICAL OF 2)
SCALE: 3/4"=1'-0" SOLUTION 3

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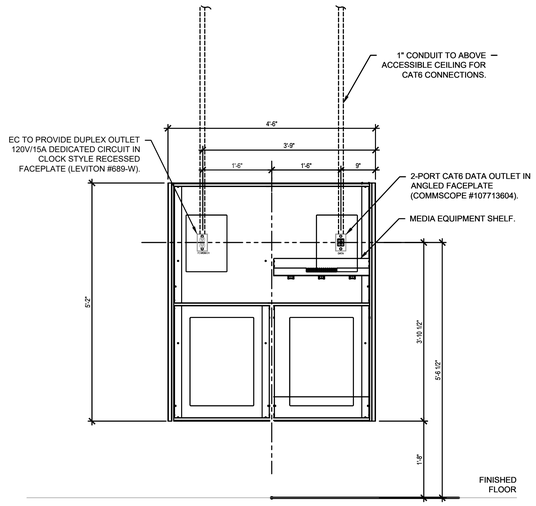
site location
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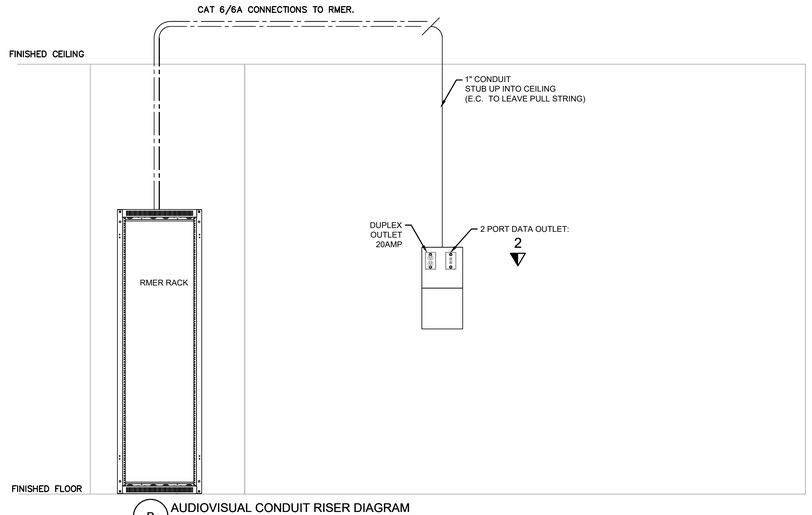
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AV SOLUTION #3
75" DISPLAY
CUSTOM MILWORK

job no.
48200R0254765

sheet
TC-501



A WALL MOUNTED WELCOME FIXTURE - 55" DISPLAY
SCALE: 3/4"=1'-0"



B AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: NTS

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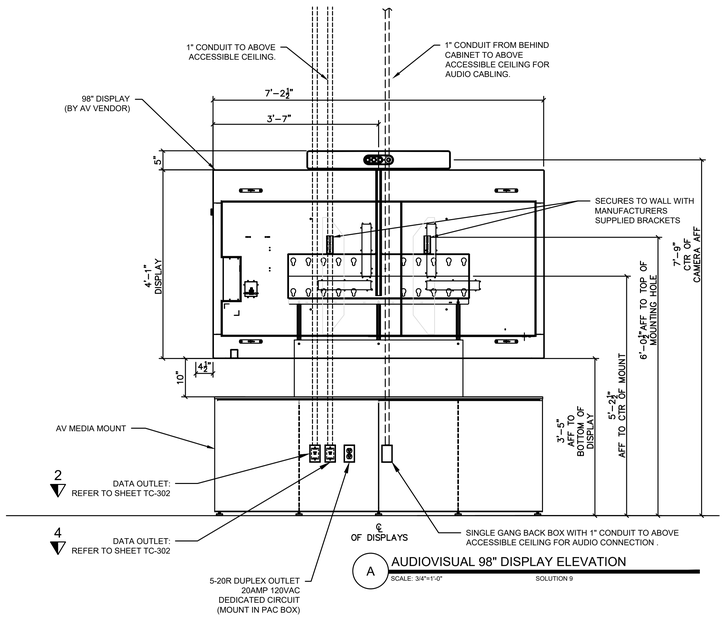
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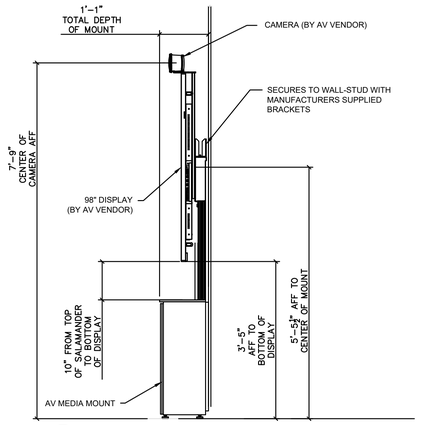
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WELCOME WALL- MEDIUM 55" DISPLAY SURFACE MOUNTED

job no.
48200R0254765

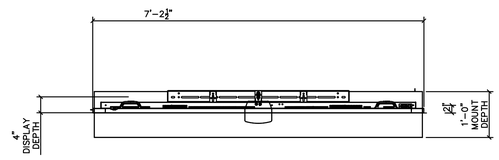
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TC-502



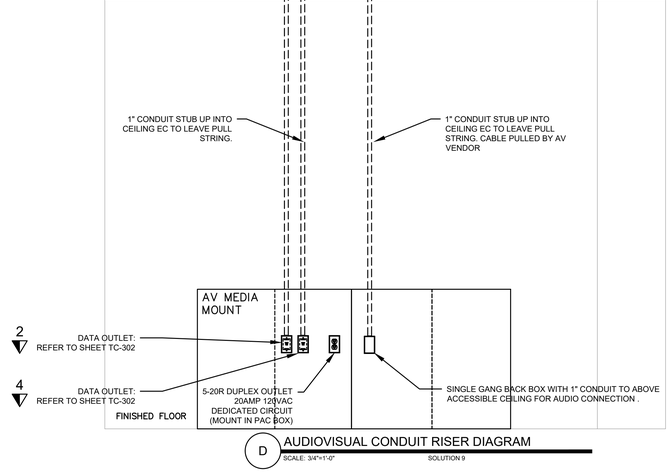
A AUDIOVISUAL 98" DISPLAY ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 9



B AUDIOVISUAL 98" DISPLAY MOUNTING ELEVATION
SCALE: 3/4"=1'-0" SOLUTION 9



C AUDIOVISUAL 98" DISPLAY TOP VIEW
SCALE: 3/4"=1'-0" SOLUTION 9



D AUDIOVISUAL CONDUIT RISER DIAGRAM
SCALE: 3/4"=1'-0" SOLUTION 9

INSTALLATION REQUIREMENTS FROM SURVEY

MEASUREMENT	REQUIRED DIMENSION	MEASURED DIMENSION	NOTES
DATA QTY.	6		
AV STRUCTURED CABLE QTY.	0		
POWER	DUPLEX 20A 120V		
SPEAKER CABLE	0		
BLOCKING	NONE		

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AV SOLUTION #9
98" DISPLAY

job no. 48200R0254765

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TC-503

PROJECT MAJOR MATERIAL REQUIREMENTS

CATEGORY	MATERIAL	MANUFACTURER	MODEL NUMBER	QTY	EXT	NOTES
COPPER CABLING	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700210198 (REEL)	#	LF	
	CAT6, PLENUM RATED, HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700214372 (BOX)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700211923 (REEL)	#	LF	
	CATEGORY 6, NON-PLENUM RATED HORIZONTAL UTP GRAY CABLE	COMMSCOPE/SYSTIMAX	700211931 (BOX)	#	LF	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPCS3312-03N006	6	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPCS3312-03F005	14	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPCS3312-03F007	94	EA	
	CATEGORY 6 PATCH CORD SLATE	COMMSCOPE/SYSTIMAX	CPCS3312-03F010	35	EA	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760105940 (REEL)	#	LF	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760107268 (BOX)	#	LF	
	CATEGORY 6A, NON-PLENUM RATED, HORIZONTAL UTP WHITE CABLE	COMMSCOPE/SYSTIMAX	760105817	#	LF	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-09F005	2	EA	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-09F007	23	EA	
	CATEGORY 6A, PATCH CORD WHITE	COMMSCOPE/SYSTIMAX	CPCSSX2-09F010	12	EA	
	CATEGORY 6A, PLENUM RATED, HORIZONTAL F/UTP BLUE CABLE	COMMSCOPE/SYSTIMAX	760122630	#	LF	
	7' CATEGORY 6A, F/UTP, BLUE PATCH CORD	COMMSCOPE/SYSTIMAX	CPCGGK2-07F007	2	EA	
	PLENUM RATED 10' CATEGORY 6A, F/UTP, BLUE PATCH CORD	COMMSCOPE/SYSTIMAX	CPCGGK2-07F010	2	EA	
	CATEGORY 6, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/SYSTIMAX	760008888	#	LF	
	CATEGORY 6A, OSP RATED, HORIZONTAL UTP CABLE	COMMSCOPE/SYSTIMAX	760178129	#	LF	
	SHIELDED CATEGORY 6A, OSP RATED, HORIZONTAL F/UTP CABLE	COMMSCOPE/SYSTIMAX	760178129	#	LF	
	SHIELDED 22/2 PAIR CABLING	BELDEN	9451	#	LF	
FACEPLATE AND BOXES	CAT 6 RJ45 JACK (GREY)	COMMSCOPE/SYSTIMAX	700206733	124	EA	
	CAT 6 RJ45 JACK (ORANGE)	COMMSCOPE/SYSTIMAX	700206683	4	EA	
	CAT 6 RJ45 JACK (PURPLE)	COMMSCOPE/SYSTIMAX	700206675	4	EA	
	CAT 6A RJ45 JACK (GREEN)	COMMSCOPE/SYSTIMAX	760092403	30	EA	
	CAT 6A RJ45 JACK (WHITE)	COMMSCOPE/SYSTIMAX	760092429	7	EA	
	WALL MOUNTED FACEPLATE, 4-PORT	COMMSCOPE/SYSTIMAX	108168543	40	EA	
	WALL MOUNTED FACEPLATE, 4-PORT ANGLED	COMMSCOPE/SYSTIMAX	107713604	1	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 18" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	760235692	7	EA	
	CATEGORY 6A PLENUM RATED CEILING CONNECTOR ASSEMBLY WITH 15'-0" LONG PIGTAIL	COMMSCOPE/SYSTIMAX	C015J02-88F015	22	EA	
	BRUSHED DECORA STYLE PASSTHROUGH FACEPLATE	LEVITON	41078-DBW	6	EA	
	2-PORT PLENUM RATED SURFACE MOUNT BOX FOR CAT 6A SHIELDED OUTLETS	COMMSCOPE/SYSTIMAX	760252768	1	EA	
	CATEGORY 6A SHIELDED JACK (BLUE)	COMMSCOPE/SYSTIMAX	760152801	4	EA	
	CAT 6A SHIELDED JACK M-SERIES ADAPTER (BLUE)	COMMSCOPE/SYSTIMAX	760154252	4	EA	
	WALL PHONE FACEPLATE	COMMSCOPE/SYSTIMAX	760100891	6	EA	
GROUNDING & BONDING	RACK MOUNTED EQUIPMENT GROUND KIT W/ 108" JUMPER	PANDUIT OR CPI	GJS6120J OR 42159-009	10	EA	
	BUSBAR-TO-RACK GROUND BAR KIT W/ 18' JUMPER	PANDUIT	GJS618GJ	4	EA	
	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	2	EA	
	TWO HOLE LONG BARREL LUG	PANDUIT	LCCS SERIES	#	EA	
EQUIPMENT ROOM/RACK AND ASSOCIATED COMPONENTS	2-POST RACK, 45RU, BLACK FINISH	CPI	66353-703	2	EA	
	6" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30095-703	2	EA	
	10" WIDE, DOUBLE-SIDED VERTICAL CABLE MANAGER, BLACK FINISH	CPI	30096-703	1	EA	
	2RU HORIZONTAL CABLE MANAGER, BLACK FINISH	CPI	30130-719	6	EA	
	MODULAR, ANGLED, 48-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187211	2	EA	
	MODULAR, ANGLED, 24-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760187203	2	EA	
	MODULAR, ANGLED, SHIELDED 24-PORT PATCH PANEL	COMMSCOPE/SYSTIMAX	760151290	1	EA	
	RACK MOUNTED HORIZONTAL GROUNDING BUSBAR KIT (SEE GROUNDING SCHEMATIC)	PANDUIT	RGRB19U	1	EA	
	(1) WHITE AND (1) BLACK VERTICAL POWER DISTRIBUTION UNIT, 2-PACK	CPI	EA-3087-CE	1	EA	
	MOUNTING BRACKET BLACK	CPI	TS1012713	1	EA	
	MOUNTING BRACKET WHITE	CPI	TS1012713	1	EA	
	2RU BLANK PANEL - BLACK FINISH	CPI	30024-702	2	EA	
	12" WIDE LADDER RACK - BLACKFINISH	CPI	10280-712	20	LF	
	LADDER RACK STRINGER RADIUS DROP 10.3" W - BLACK FINISH	CPI	12101-711	3	EA	
	LADDER RACK CABLE RETAINING POSTS	CPI	10596-706	6	EA	
	LADDER RACK WALL ANGLE SUPPORT KIT	CPI	11421-712	4	EA	
	EQUIPMENT SHELF	CPI	11359-719	1	EA	
	SERVER MOUNTING BRACKET	CPI	12751-719	1	EA	
	UPS MOUNTING BRACKET	VERTIV	2POSTRMKIT	1	EA	
	C14-C15 POWER CORD (BLACK) 6 FOOT	LEGRAND OR WORLD CORD	2306-4913-006 OR 1415-H-072	3	EA	
	C14-C15 POWER CORD (WHITE) 6 FOOT	LEGRAND OR WORLD CORD	2306-7705-006 OR 1415-H-072-WHT	6	EA	
FIRE RATED SLEEVES	4" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD4452	2	EA	
	WATERFALL ADAPTER	STI	EZRGM445	3	EA	
	MULTI-GANG PLATE	STI	EZP344W	2	EA	
	4" PRE-MANUFACTURED FIRE RATED SSLEEVE FOR SECURITY CABLING	STI	EZDP4452	1	EA	
	2" PRE-MANUFACTURED FIRE RATED SLEEVE	STI	EZD22	1	EA	

NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO PROCUREMENT.
- "#" DENOTES THAT THE CONTRACTOR IS TO FIELD VERIFY LENGTHS AND QUANTITIES PRIOR TO PROCUREMENT.

1 PROJECT BILL OF MATERIALS
SCALE:

PATCH PANEL "A" - CAT6 - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	PCS 3	DATA OUTLET	M2A01
2	AT / LAO CASH	DATA OUTLET	M2A02
3	PCS 7	DATA OUTLET	M2A03
4	PCS 6	DATA OUTLET	M2A04
5	PCS 2	DATA OUTLET	M2A05
6	PCS 1	DATA OUTLET	M2A06
7	PCS 9	DATA OUTLET	M2A07
8	PCS 10	DATA OUTLET	M2A08
9	PCS 11	DATA OUTLET	M2A09
10	PCS 12	DATA OUTLET	M2A10
11	PCS 13	DATA OUTLET	M2A11
12	CONF / PCS 8	DATA OUTLET	M2A12
13	CONF / PCS 8	DATA OUTLET	M2A13
14	CONF / PCS 8	DATA OUTLET	M2A14
15	BOOTH 5	DATA OUTLET	M2A15
16	BOOTH 4	DATA OUTLET	M2A16
17	LOBBY	DATA OUTLET	M2A17
18	LOBBY	DATA OUTLET	M2A18
19	LIVING ROOM	DATA OUTLET	M2A19
20	LIVING ROOM	DATA OUTLET	M2A20
21	LIVING ROOM	DATA OUTLET	M2A21
22	LIVING ROOM	DATA OUTLET	M2A22
23	LIVING ROOM	DATA OUTLET	M2A23
24	LIVING ROOM	DATA OUTLET	M2A24
25	ATM /EQUIP	WALL PHONE	M2A25
26	AT / LAO CASH	DATA OUTLET	M2A26
27	AT / LAO CASH	DATA OUTLET	M2A27
28	AT / LAO CASH	DATA OUTLET	M2A28
29	AT / LAO CASH	DATA OUTLET	M2A29
30	AT / LAO CASH	DATA OUTLET	M2A30
31	AT / LAO CASH	DATA OUTLET	M2A31
32	AT / LAO CASH	DATA OUTLET	M2A32
33	PRNT	DATA OUTLET	M2A33
34	PRNT	DATA OUTLET	M2A34
35	RMER/ DATA	DATA OUTLET	M2A35
36	RMER/ DATA	DATA OUTLET	M2A36
37	RMER/ DATA	DATA OUTLET	M2A37
38	RMER/ DATA	DATA OUTLET	M2A38
39	RMER/ DATA	DATA OUTLET	M2A39
40	RMER/ DATA	WALL PHONE	M2A40
41	BREAK ROOM	WALL PHONE	M2A41
42	PRNT	WALL PHONE	M2A42
43	MT	WALL PHONE	M2A43
44	MT	WALL PHONE	M2A44
45	MT	TELLER DATA OUTLET	M2A45
46	MT	TELLER DATA OUTLET	M2A46
47	MT	TELLER DATA OUTLET	M2A47
48	MT	TELLER DATA OUTLET	M2A48

PATCH PANEL "B" - CAT6 - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	CONF / TRAINING	DATA OUTLET	M2B01
2	CONF / TRAINING	DATA OUTLET	M2B02
3	CONF / TRAINING	DATA OUTLET	M2B03
4	CONF / TRAINING	DATA OUTLET	M2B04
5	CONF / TRAINING	DATA OUTLET	M2B05
6	LOBBY	ATM DATA OUTLET	M2B06
7	ATM / EQUIP	ATM DATA OUTLET	M2B07
8	CONF / TRAINING	DATA OUTLET	M2B08
9	CONF / TRAINING	DATA OUTLET	M2B09
10	CONF / TRAINING	DATA OUTLET	M2B10
11	CONF / TRAINING	DATA OUTLET	M2B11
12			
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23	RMER	CARRIER EXTENSION DATA OUTLET	M2B23
24	RMER	CARRIER EXTENSION DATA OUTLET	M2B24

PATCH PANEL "C" - CAT6A CAMERA - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	LOBBY	CAM #1	M2C01
2	LIVING ROOM	CAM #2	M2C02
3	LOBBY	CAM #3	M2C03
4	LOBBY	CAM #4 - 5	M2C04
5	LOBBY	CAM #6 - 7	M2C05
6	LOBBY	CAM #8	M2C06
7	LOBBY	CAM #9	M2C07
8	LOBBY	CAM #10	M2C08
9	LOBBY	ATM CAM #11	M2C09
10	LOBBY	CAM #12	M2C10
11	MT	CAM #13 -15	M2C11
12	MT	CAM #16 -17	M2C12
13	AT / LAO CASH	CAM #18	M2C13
14	AT / LAO CASH	CAM #19	M2C14
15	RMER / DATA	CAM #20	M2C15
16	HALLWAY 2	CAM #21	M2C16
17	HALLWAY 3	CAM #22	M2C17
18	LOBBY	CAM #23	M2C18
19	ATM / EQUIP	CAM #24	M2C19
20	ATM / EQUIP	ATM CAM #25	M2C20
21	24 HR TRANSACTION VESTBULE	CAM #26	M2C21
22	24 HR TRANSACTION VESTBULE	CAM #27	M2C22
23	CONF TRAINING	EXT CAM #28	M2C23
24	CONF TRAINING	EXT CAM #29	M2C24
25	24 HR TRANSACTION VESTBULE	EXT CAM #30	M2C25
26	CONF / PCS 8	EXT CAM #31	M2C26
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PATCH PANEL "D" - CAT6A WIRELESS - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	CONF / TRAINING	WAP #1	M2D01
2	LOBBY	WAP #2	M2D02
3	BREAK ROOM	WAP #3	M2D03
4	LOBBY	WAP #4	M2D04
5	PCS 12	WAP #5	M2D05
6	PCS 7	WAP #6	M2D06
7	PCS 9	WAP #7	M2D07
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PATCH PANEL "E" - SHIELDED CAT6A - SCHEDULE

PORT #	LOCATION	ITEM	LABEL
1	CONF / PCS 8	CELLULAR ANTENNA	M2E01
2	CONF / PCS 8	CELLULAR ANTENNA	M2E02
3			
4			
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2 PROJECT PANEL SCHEDULE
SCALE:

JPMorganChase

WORKPLACE TECHNOLOGY SOLUTIONS

BUILDING TECHNOLOGY INFRASTRUCTURE

1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL
BRANCH
VANCOUVER - RELO

keyplan

seal

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG.NO.166050
EXPIRES 12-31-25
RCDD

issue

no	date	issue	by
	05.12.2026	PERMIT / BID	KB

site location **JP MORGAN CHASE**
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	drawn	date
KB	KB	05.12.2026
checked	scale	
BB	AS NOTED	

title

TELECOM MATERIALS AND PATCH PANEL SCHEDULES

job no. 48200R0254765

sheet

TC-601

Definition and Checklist for RMER & RTR Room Acceptance
Stage 1 of 2: Room Ready

Project Name:	
Address:	
City:	
State:	
Property ID:	
Room Type:	
Floor:	

JPMorgan Chase & Co.
Workplace Technology Solutions
Building Technology Infrastructure
Structured Cabling Engineering

WTS PM:	
WTS Rep:	
RRE PM Rep:	
GC Vendor:	
GC Site Super:	
Cabling Vendor:	

Scheduled IT Room Ready Date:	
Turnover-45 Calc Date:	
Scheduled Turnover at Time of Visit:	
Permanent Power Forecast Date:	
Room Ready Site Visit Date:	
Acceptance Date:	
Exceptions - SNOW SCTASK #:	

General Construction

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	Walls completed with final painting and built floor to deck above.		
	Walls are built with 5/8" Type X gypsum drywall board from the floor to the underside of the deck or greater if local code is more stringent.		
	Permanent door and hardware installed. This should include the automatic closer and door sweep. Temporary lock core is acceptable.		
	Ceiling has been encapsulated to prevent spray-on firestopping from flaking and creating dust in the room. (if applicable)		
	Plywood backboards have been installed and painted with fire retardant paint and 1 fire-rating certification stamp is left unpainted.		
	Sealed concrete flooring is completely installed. Architect shall define the seal type (acrylic, epoxy, polyurethane, or siloxane) sealer.		
	RMER/RTR is vacuumed, broom swept, and cleaned to a level that is adequate to safely maintain space for pulling and terminating copper and fiber cabling.		
	Any openings or penetrations through walls have been sealed with firestop.		

Mechanical/Electrical/Plumbing

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	Electrical distribution on permanent power.		
	Power receptacles should be mounted above racks on an independent C-channel (unistrut) and facing the wall per drawing TC-403. Provide dedicated circuits with dedicated neutral and equipment grounding conductor (EGC).		
	All power outlets have been installed, energized, tested, & labeled. Power receptacles shall be labeled with panel ID and circuit #.		
	Permanent lighting and switches installed. Lighting located in aisle ways and coordinated with rack and/or cabinet layout.		
	Wall mounted grounding bus bar inside RMER/RTR has been installed and connected to the building grounding system.		
	Fire alarm/smoke detection devices (if required for project) are installed and wired, in the RMER/RTR.		
	All metallic conduits for low voltage cabling leaving the room shall be grounded to the wall mounted busbar.		
	Backboxes have been roughed-in for Access Control, IP-CCTV & Intrusion Detection systems; inclusive of panels and power.		
	Cages over sprinkler heads installed.		
	Dedicated cooling unit has been installed, including leak detection, pipes, valves, drip pans, ductwork, condensate piping, and drains. Cooling unit designed to maintain ASHRAE standard for temperature and humidity.		
	For the back-up exhaust fan, all duct work & diffuser installations have been completed, thermostat is installed & set to 90-degrees, fire dampers installed where required to maintain fire rating of room and is fully operational.		
	BAS devices installed and wired to equipment (if required).		
	Cooling unit is operational 24 x 7.		
	Conduits for carrier cabling & exterior ATM cabling installed and Maxcell innerduct installed within them and each conduit labeled per drawing TC-402.		
	Conduit to roof for future cellular (5G) antenna has been installed and labeled per drawing TC-402.		
	Security camera locations have the pathways roughed-in (if required) and cabling installed.		

Technology - Structured Cabling

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	Racks have been bolted to the floor in their final position and cable managers have been installed per the TC drawings (enlarged RMER/RTR floor plan and rack elevations). All clearances within the RMER/RTR as per drawings have been validated.		
	Pathways outside the RMER/RTR are installed including; J-hooks, sleeves, and any conduit pathways.		
	Ladder rack within the room has been installed.		
	Carrier cabling is pulled into room, terminated, tested, and labeled. (if applicable).		

Acceptance Sign-Off

WTS: _____ Date: _____

RRE: _____ _____

1 ROOM READY CHECKLIST
SCALE:

Definition and Checklist for RMER & RTR Room Acceptance
Stage 2 of 2: Production Ready

Project Name:	
Address:	
City:	
State:	
Property ID:	
Room Type:	
Floor:	

JPMorgan Chase & Co.
Workplace Technology Solutions
Building Technology Infrastructure
Structured Cabling Engineering

WTS Rep:	
WTS Rep:	
RRE PM Rep:	
GC Vendor:	
GC Site Super:	
Cabling Vendor:	

Scheduled IT Room Ready Date:	
Turnover-45 Calc Date:	
Scheduled Turnover at Time of Visit:	
Permanent Power Actual Date:	
Production Ready Site Visit Date:	
Acceptance Date:	
Exceptions - SNOW SCTASK #:	

General Construction

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	Temporary lock core has been changed to JPMC lock core.		

Mechanical/Electrical/Plumbing

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	BAS (thermostat) system operational.		
	All underground conduit openings have been sealed.		

Technology - Structured Cabling

Verified Complete Date	Inspection Item Description	Incomplete Item(s) Comment	Approval Initials
	Room is clean and dust free. (Based on SECTION 27 05 03 Requirements)		
	Carrier equipment is installed in its designated position and connected to the designated power outlet.		
	All rack-mounted ground bars have been individually grounded to the wall mounted ground bus bar.		
	Overhead ladder rack has been grounded to wall mounted ground bus bar within the RMER/RTR and all ladder rack sections are bonded together with a ground wire.		
	Armored communications cable jackets (if applicable) have been grounded.		
	The grounding connections from the rack mounted grounding bas bars have been connected to the Network Electronics (switches, routers, server, PDUs, and NVR).		
	Surge suppression modules have been installed for exterior network connections (non-building mounted cameras & ATM) and grounded to the wall mounted ground bus bar.		
	Backbone cabling (copper/fiber) installation between RMER and RTR (if applicable).		
	Cabling installed, routed, and supported utilizing strain relief in a neat manner that does not block equipment mounting space or interfere with other systems.		
	Structured cabling installation complete (terminated, labeled, & tested) in RMER/RTR.		
	No plastic tiewraps used to manage power or communications cabling slack or bundles.		
	All network equipment racked in the positions per the rack elevations on the TC drawings.		
	All technology equipment patched and all patching utilizes cable management pathways & is neatly managed.		
	Patch cord slack does not exceed more than 1' on either end (at patch panel & switch).		
	No cables (horizontal, patch, or backbone) are blocking equipment mounting spaces.		
	Power distribution units (PDUs) mounted to racks & plugged into the outlets mounted above the racks.		
	All equipment power cords are neatly managed and white power cords are plugged into the white PDU and black power cords are plugged into the black PDU.		
	Equipment racks, fiber enclosures (if applicable), patch panels, & horizontal cabling labeled as per the Retail Structured Cabling labeling drawing details.		
	Cabling and wallphone plate installed for wall phone. Wall phone installed inside room & operational.		
	As-builts of floor plan with all telecom outlets labeled has been printed out and mounted to the wall.		
	The JPMC Structured Cabling Engineer has received & reviewed cabling test results.		
	Any punch list items found upon cable test review have been corrected.		

Acceptance Sign-Off

WTS: _____ Date: _____

RRE: _____ _____

2 PRODUCTION READY CHECKLIST
SCALE:

JPMorganChase

WORKPLACE TECHNOLOGY SOLUTIONS

BUILDING TECHNOLOGY INFRASTRUCTURE

1111 POLARIS PARKWAY, COLUMBUS, OHIO 43240

NEW RETAIL

BRANCH

VANCOUVER - RELO

keyplan

seal

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
KEVIN BRENNAN
REG.No.166050
EXPIRES 12-31-25
RCDD

issue

no	date	issue	by
	05.12.2026	PERMIT / BID	KB

site location **JP MORGAN CHASE**
MAIN ST AND 13TH
VANCOUVER WA 98660
BUILDING ID: 601795

designed	KB	drawn KB	date 05.12.2026
checked	BB	scale AS NOTED	

title

ROOM READY & PRODUCTION READY CHECKLISTS

job no. 48200R0254765

sheet

TC-602