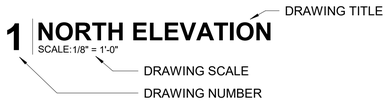
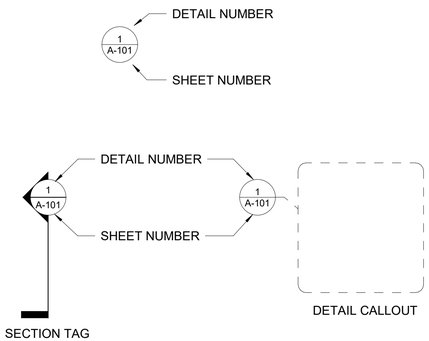
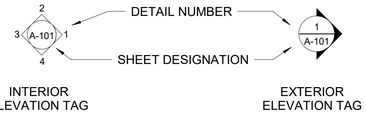
DRAWING TITLE TAG

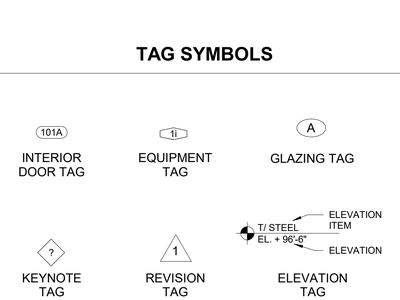


DETAIL TAGS





TAG SYMBOLS



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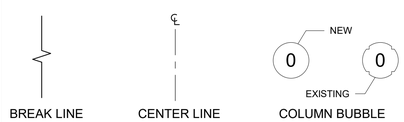


ABBREVIATIONS

AB	anchor bolt
ABV	above
AD	area drain
AFF	above finish floor
ALUM	aluminum
ANN	annunciator
APROX	approximate
ARCH	architectural
AUTO	automatic
AVE	avenue
AWG	American wire gauge
B/	bottom of
BIT	bituminous
BLDG	building
CL	center line
CLG	ceiling
CM	centimeter
CMU	concrete masonry unit
CO	cleanout
COL	column
CONC	concrete
CONSTR	construction
CONT	continuous
COORD	coordinate
CNTR	center
CU	cubic
CW	cold water
DBL	double
DEG	degree
DEMO	demolish
DEPT	department
DET	detail
DIA	diameter
DIAG	diagonal
DN	down
DS	downspout
DWG	drawing
E	East
ELEC	electrical
EM	emergency
EXIST	existing
EXT	exterior
F/	face of
FA	fire alarm
FCO	floor clean out
FD	floor drain
FNDN	foundation
FF	finish floor
FLR	floor
FT	foot (feet)
FTG	footing
FURR	furring
GA	gauge
GALV	galvanized
GND	ground
GWB	gypsum wall board
GYP	gypsum
HB	hose bib
HDWH	hardwood
HDWR	hardware
HR	hour
HT	height
HW	hot water
ID	inside diameter
IN	inches
INCL	include(d)(ing)
INSUL	insulation
INT	interior
ISO	isolation
KO	knockout
KIT	kitchen
LAM	laminate(s)
LAV	lavatory
LB(S)	pound(s)
LL	landlord
LT	light
M	meter
MAINT	maintenance
MAS	masonry
MAX	maximum
MECH	mechanical
MTL	metal
MEZZ	mezzanine
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MM	millimeter
MO	masonry opening
MULL	mullion
N	North
N.I.C.	not in contract
NO.	number
NOM	nominal
NTS	not to scale
OA	overall
OC	on center
OD	outside diameter
OH	overhead
OPNG	opening
PL	plate
P-LAM	plastic laminate
PLBG	plumbing
PLUMB	plumbing
PNL	panel
PNT	paint
PT	pressure treated
QT	quarry tile
R	riser
RD	roof drain
REF	refrigerator
REINF	reinforced
REQ'D	required
REV	revision
RFG	roofing
RM	room
RMV	remove
RO	rough opening
S	South
SAFB	sound attenuation fire
batt	insulation
SAN	sanitary
SECT	section
SF	square foot (feet)
SIM	similar
SQ	square
SS	stainless steel
STC	sound transmission class
STD	standard
STL	steel
STRUCT	structural
T	tread
T/	top of
T&B	top and bottom
T&G	tongue and groove
TEL	telephone
TEMP	tempered
TOPO	topography(ic)
TYP	typical
UNO	unless noted otherwise
UTIL	utility
VAC	vacuum
VTR	vent through roof
VIF	verify in field
W	West
W/	with
W/O	without
WC	water closet
WH	water heater
WIN	window
WWF	welded wire fabric
YD	yard

SCOPE OF WORK

FITNESS STUDIO INTERIOR BUILD OUT IN A DEMISED RETAIL SPACE. WORK TO INCLUDE DEMOLITION, THE INSTALLATION OF CEILINGS, PARTITIONS, DOORS, INTERIOR FINISHES MECHANICAL WORK, ELECTRICAL WORK AND PLUMBING WORK FOR A NEW HEALTH & FITNESS ESTABLISHMENT.

DEFERRED SUBMITTALS

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

LIST OF DEFERRED SUBMITTALS:

1. FIRE ALARM
2. SPRINKLERS
3. SIGNAGE

HISTORIC COMMISSION RECORD NUMBER

SG26000133

ACCESSIBILITY COMPLIANCE NOTES

ACCESSIBILITY NOTES:

PROJECT MUST FULLY COMPLY & MEET 2010 ADA/ADAGA AND THE 2017 DCMR 12A DC BUILDING CODE AMENDMENTS (MOST RESTRICTIVE REQUIREMENTS GOVERN).

[solidcore]

1326 5TH STREET NORTHEAST WASHINGTON, DC 20002

TENANT AREA (AREA OF WORK) : **2,679 SF**

MUNICIPAL APPROVAL STAMP

CONTACTS

ARCHITECT:

DxU, ARCHITECTS
412 S.WELLS ST.
SECOND FLOOR
CHICAGO, IL 60607
(P) 312.955.0334

EMILY LINDSEY
ASSOCIATE PRINCIPAL
ELINDSEY@DXUARCH.COM

CLIENT:

SOLIDCORE
1735 N LYNN ST
SUITE 650
ARLINGTON, VA 22209
(P) 202.915.5740

LOU BENEDETTO
DIRECTOR OF DESIGN
LOU@SOLIDCORE.CO

ALISON GOSS
MANAGER, CONSTRUCTION AND DEVELOPMENT
ALISON.GOSS@SOLIDCORE.CO

MEP ENGINEER:

CASE ENGINEERING, INC.
796 MERUS CT.
ST. LOUIS, MO 63026
(P) 636.349.1600

LUKE WILD
MANAGER OF MECH. ENGINEERING
(P) 314.570.7920
LWILD@CASEENGINEERING.COM

LANDLORD:

EDENS
1272 5TH ST NE, SUITE 200
WASHINGTON, DC 20002
LAURA BELLANTONI
LBELLANTONI@EDENS.COM
703.899.5348

PROXIMITY MAP

VENDORS

SIGNAGE:

SOUTHEAST SIGN CO.
6400 N ANDREWS AVE,
SUITE 120
FORT LAUDERDALE, FL 33309

CONTACT:
MATT BOONE
DIRECTOR OF PROJECT MANAGEMENT
(P) 754.332.2263
MATT@SOUTHEASTSIGNCO.COM

ACOUSTIC HANGERS:

MASON WEST, INC.
1601 E. MIRALOMA AVE.
PLACENTIA, CA 92870

CONTACT:
BRITTANY BURDETT
(P) 714.450.6022
BRITTANY@MASONWEST.COM

LIGHTING:

CED NATIONAL
ACCOUNTS
1920 WESTRIDGE DR.
IRVING, TX 75038

CONTACT:
RYAN DENNEY
(P) 817.923.1983
(C) 281.733.8884
RYAN.DENNEY@CED.COM

AUDIO:

MOOD MEDIA
2100 S IH-35 FRONTAGE RD,
SUITE 200
AUSTIN, TX 78704

CONTACT:
GIB HARRIS
(P) 610.647.5082
GIB.HARRIS@MOODMEDIA.COM

MILLWORK VENDOR:

D&A STUDIOS
3990 NW 132ND STREET
BAY F&G
OPA LOCKA, FL 33054

CONTACT:
ANH DUONG
(P) 786.344.5253
ANHINC5253@GMAIL.COM

EQUIPMENT VENDOR:

BTX INDUSTRIES
1101 30TH STREET NW
SUITE 500
WASHINGTON, DC 20007

CONTACT:
JOSIE ARUNGAYAN
(P) 301.637.2726

SECURITY:

BASS SECURITY
26701 RICHMOND ROAD
BEDFORD HEIGHT, OH 44146

CONTACT:
JASON STALLARD
PROJECT COORDINATOR
(P) 216.755.1200 X1190
JSTALLARD@BASS-SECURITY.COM

DRAWING INDEX

NO	SHEET NAME	03/09/2026 - LL REVIEW SET	03/09/2026 - ISSUED FOR PERMIT	05/12/2026 - PERMIT COMMENTS
01 - TITLE				
T1-01	TITLE SHEET	•	•	•
02 - GENERAL				
G1-01	PROJECT INFO & CODE ANALYSIS	•	•	•
G1-02	GENERAL NOTES	•	•	
G1-03	GENERAL NOTES	•	•	
G1-10	ACCESSIBILITY STANDARD DETAILS	•	•	
04 - ARCHITECTURAL				
A1-11	GROUND FLOOR PENETRATION/SLAB PLAN	•	•	
A1-21	GROUND FLOOR PLAN	•	•	•
A1-31	GROUND FLOOR DIMENSIONED PLAN	•	•	•
A1-41	GROUND FLOOR FINISH PLAN	•	•	•
A2-11	GROUND FLOOR REFLECTED CEILING PLAN	•	•	
A3-11	ENLARGED RESTROOM PLAN	•	•	
A3-21	RESTROOM DETAILS	•	•	
A5-11	INTERIOR ELEVATIONS	•	•	
A5-21	INTERIOR ELEVATIONS	•	•	•
A7-10	DETAILS	•	•	
A7-20	DETAILS	•	•	
A7-30	DETAILS	•	•	
A8-10	PARTITION SCHEDULE	•	•	
A9-10	SCHEDULES	•	•	•
A9-20	SCHEDULES	•	•	
05 - STRUCTURAL				
S1.1	GENERAL NOTES & TYPICAL DETAILS	•	•	
S2.1	FOUNDATION PLAN	•	•	
06 - MECHANICAL				
M0-01	MECHANICAL SPECIFICATIONS	•	•	
M1-01	MECHANICAL PLAN	•	•	•
M1-02	MECHANICAL ROOF PLAN			• 1
M2-01	MECHANICAL SCHEDULES	•	•	
M2-02	MECHANICAL DETAILS	•	•	
M3-01	MECHANICAL ENERGY CALCS	•	•	
07 - ELECTRICAL				
E1-00	ELECTRICAL SPECIFICATIONS	•	•	
E1-01	ELECTRICAL SPECIFICATIONS	•	•	
E2-00	ELECTRICAL POWER PLAN	•	•	
E2-01	ELECTRICAL HVAC POWER PLAN	•	•	
E3-00	ELECTRICAL LIGHTING PLAN	•	•	
E4-00	ELECTRICAL PANELS / SCHEDULES	•	•	
E5-00	ENERGY CODE COMPLIANCE FORMS	•	•	
08 - PLUMBING				
P1-01	PLUMBING PLAN	•	•	
P2-01	PLUMBING DETAILS	•	•	
P2-02	PLUMBING SPECIFICATIONS	•	•	
P3-01	PLUMBING RISERS	•	•	

CODE MATRIX

ZONING CLASSIFICATION:	PDR-1, UNION MARKET HISTORIC DISTRICT
OCCUPANCY CLASSIFICATION:	B, BUSINESS
BUILDING HEIGHT:	EXISTING TO REMAIN, (2 STORY)
BUILDING AREA:	EXISTING TO REMAIN
TENANT AREA OF WORK:	2,679 SF
SEPARATED USES:	SEPARATED OCCUPANCIES PER 508.4 EXISTING MASONRY DEMISING WALLS TO REMAIN
CONSTRUCTION TYPE:	II-B, FULLY SPRINKLERED

BUILDING FIRE RESISTANCE RATING REQUIREMENTS

BUILDING ELEMENTS	REQUIRED (HR)	PROVIDED (HR)	NOTES
STRUCTURAL FRAME:	0 HR	EXISTING, NO CHANGE	-
BEARING WALLS, EXTERIOR:	0 HR	EXISTING, NO CHANGE	-
BEARING WALLS, INTERIOR:	0 HR	EXISTING, NO CHANGE	-
NON-BEARING WALLS, EXT.:	0 HR	EXISTING, NO CHANGE	-
NON-BEARING WALLS, INT.:	0 HR	0 HR	-
FLOOR CONSTRUCTION:	0 HR	EXISTING, NO CHANGE	-
ROOF CONSTRUCTION:	0 HR	EXISTING, NO CHANGE	-

INTERIOR FINISHES: ALL INTERIOR FINISHES/MATERIALS SHALL COMPLY WITH THE 2017 DCMR 12A DC BUILDING CODE AMENDMENTS .

BUILDING CODES

*	BUILDING	2017 DCMR 12A DC BUILDING CODE AMENDMENTS
*	EXISTING	2017 DCMR 12J DC EXISTING BUILDING CODE
*	MECHANICAL	2017 DCMR 12E DC MECHANICAL CODE
*	ELECTRICAL	2017 DCMR 12C DC ELECTRICAL CODE
*	PLUMBING	2017 DCMR 12F DC PLUMBING CODE
*	FIRE PREVENTION	2017 DCMR 12H DC FIRE CODE
*	ENERGY	2017 DCMR 12I DC ENERGY CONSERVATION CODE
*	ACCESSIBILITY	2010 ADA/ADAGA
*	AS AMENDED WITH ALL STATE AMENDMENTS & CODES	

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

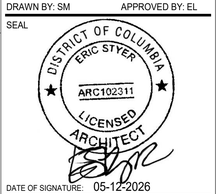
1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL



DATE OF SIGNATURE: 05-12-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

TITLE SHEET

T1-01

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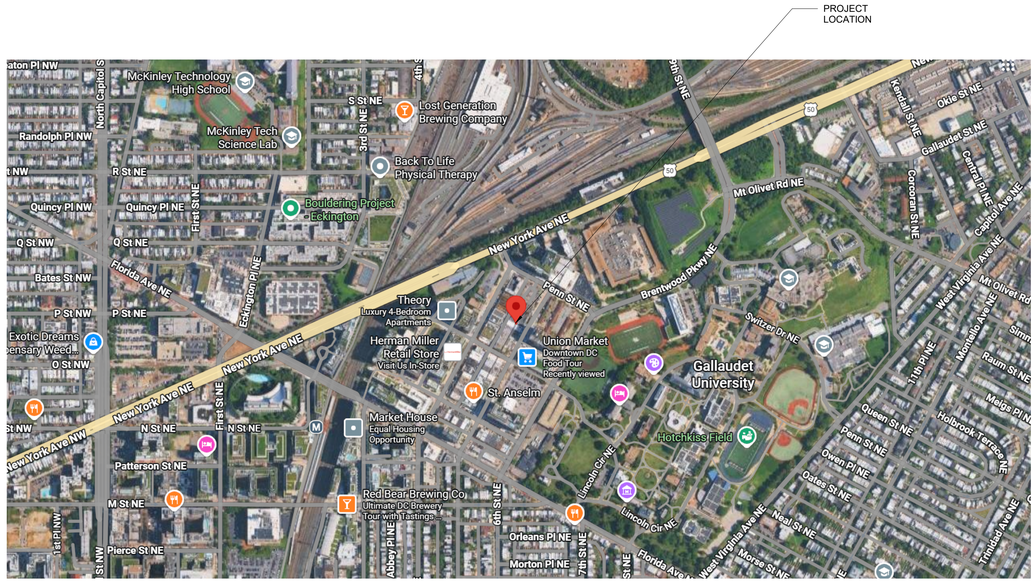
SITE PLAN



EGRESS

EGRESS REQUIREMENTS	MAX. ALLOWED	PROVIDED
EXIT TRAVEL DISTANCE:	300'-0"	107'-9"
EGRESS DOOR WIDTH:	32" MIN.	36"
EGRESS CORRIDOR WIDTH:	36" MIN.	36"
MINIMUM NUMBER OF EXITS:	2	2

OCCUPANT LOAD

STORAGE / OCC TYPE 1 145 SF / 300 SF	= 1 OCCUPANTS	
BUSINESS / OCC TYPE 2 637 SF / 100 SF	= 7 OCCUPANTS	
EXERCISE R. / OCC TYPE 3 1181 SF / 50 SF	= 24 OCCUPANTS	
TOTAL:	**= 32 OCCUPANTS**	

PLUMBING REQUIREMENTS

FIXTURE TYPE	MINIMUM NUMBER OF FIXTURES (FOR 32 OCCUPANTS)	NUMBER OF FIXTURES PROVIDED
	MALE / FEMALE	UNISEX
WATER CLOSETS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	2
LAVATORIES	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	2
DRINKING FOUNTAINS	1 PER 100	1
SERVICE SINK	1	1
URINALS	NONE	0

EGRESS / ACCESS DIAGRAM

EXIT ACCESS TRAVEL DISTANCE:

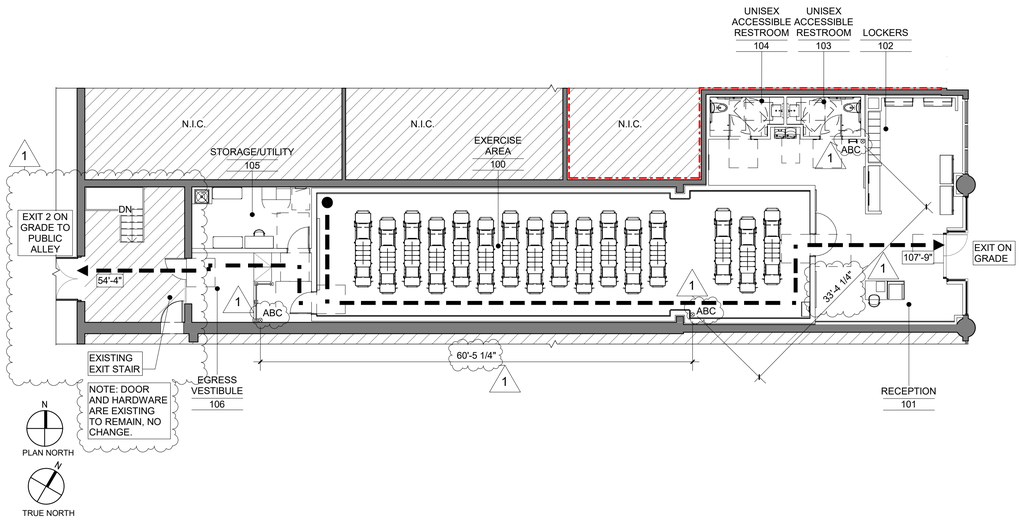
MAX. DISTANCE = 107'-9"
REFER TO A1-3/1 DIMENSIONED PLAN FOR EGRESS AISLE WIDTHS & REFER TO A2-11 REFLECTED CEILING PLAN FOR EMERGENCY LIGHTS & EXIT SIGN LOCATIONS.

LEGEND:

⊗ ABC	ABC CLASS FIRE EXTINGUISHER
	EXISTING 1 HR RATED WALL MIN.
● - - ▶	36" EGRESS PATH

NOTE:

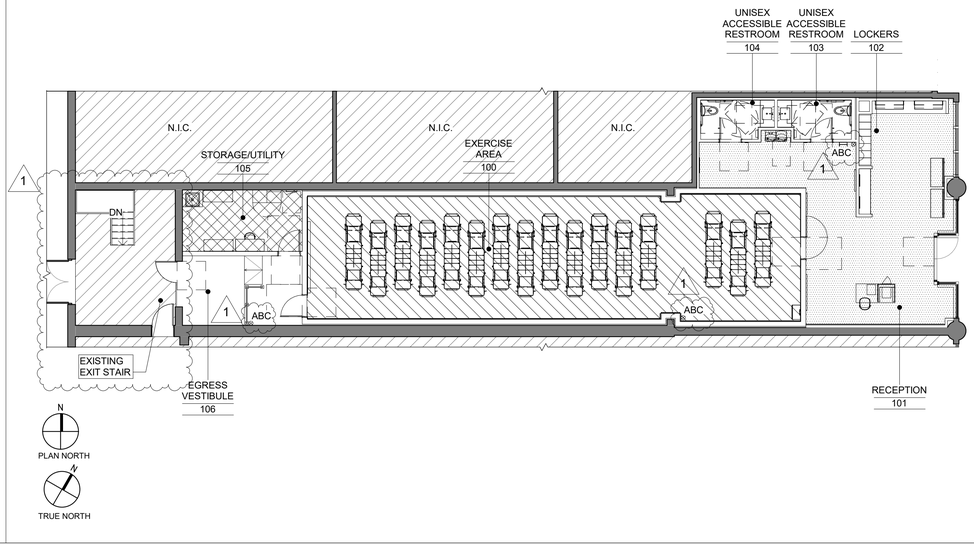
COORDINATE ALL FIRE EXTINGUISHER LOCATIONS WITH LOCAL FIRE DEPARTMENT.



OCCUPANCY DIAGRAM

LEGEND

- STORAGE (300 GROSS)
- BUSINESS (100 GROSS)
- EXERCISE ROOMS (50 GROSS)



MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
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1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA · ERIC STYER · ARC102311 · LICENSED ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

PROJECT INFO & CODE ANALYSIS

G1-01

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[solidcore]

RESPONSIBILITY MATRIX

ITEM DESC.	EXISTING	LANDLORD SUPPLY	LANDLORD INSTALL	[SOLIDCORE] SUPPLY	[SOLIDCORE] INSTALL	GENERAL CONTRACTOR SUPPLY	GENERAL CONTRACTOR INSTALL	[SOLIDCORE] VENDOR SUPPLY	[SOLIDCORE] VENDOR INSTALL	REMARKS
1. GENERAL										
BUILDING PERMIT (INTERIOR & EXTERIOR)				X	X					GC TO HELP PULL PERMITS AS NEEDED FROM DOB
SIGNAGE PERMIT								X	X	SEE VENDOR CONTACT ON SHEET T1-01
OTHER PERMITS & FEES						X	X			TRADE PERMITS & LOW VOLTAGE PERMIT IF REQUIRED
GENERAL AND SPECIAL INSPECTIONS						X	X			
CONSTRUCTION CLEAN UP & FINAL CLEAN						X	X			
TRASH REMOVAL & DUMPSTERS						X	X			
BARRICADE / CONSTRUCTION FENCE										NOT APPLICABLE
TEMPORARY POWER & LIGHTING						X	X			
TEMPORARY UTILITIES - SPRINKLER, FA, WATER						X	X			
PARKING LOT / SITEWORK										NOT APPLICABLE
UTILITY COMPANY COORDINATION				X	X					GC TO HELP SOLIDCORE AS REQUIRED WITH UTILITY COMPANIES
PROJECT CLOSE-OUT						X	X			
CERTIFICATE OF OCCUPANCY						X	X			
AS-BUILT DRAWINGS						X	X			
2. DEMOLITION										
DEMOLITION OF INTERIOR - BROOM SWEPT CONDITION						X	X			G.C. TO DEMOLISH EXISTING SLAB AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DWGS
DEMOLITION OF EXTERIOR TENANT SIGNAGE										NOT APPLICABLE
OVERHEAD PIPING										NOT APPLICABLE
SLAB TRENCHING						X	X			SLAB TO BE X-RAYED AND APPROVED BY THE LL STRUCTURAL ENGINEERS
SLAB CORES / PENETRATIONS						X	X			
DEMOLITION OF STAIR / RAMP										NOT APPLICABLE
DEMO / SEAL EGRESS DOOR										NOT APPLICABLE
STOREFRONT	X									
3. GENERAL CONSTRUCTION										
DEMISING WALL CONSTRUCTION	X									AS-IS
FLOOR PREPARATION / LEVELING						X	X			AS REQUIRED
CARPENTRY - ROUGH & FINISH						X	X			
INTERIOR DOORS, FRAMES & HARDWARE						X	X			
BLOCKING & FURRING						X	X			
MIRRORS						X	X			PLYWOOD, BLOCKING AND CLEATS BY GC
FLOOR FINISHING						X	X			
FLOOR PROTECTION						X	X			
TILE						X	X			
WALL BASE						X	X			
STACKED WOOD						X	X			
COUNTERTOPS						X	X			BLOCKING BY GC
REDUCER STRIPS & METAL TRIMS						X	X			
ACOUSTICAL CEILING MATERIALS ACOUSTICAL WALL MATERIALS						X	X			
ACOUSTICAL WALL MATERIALS						X	X			GC TO COORDINATE WITH MASON INDUSTRIES NOT
CEILING CONSTRUCTION MATERIALS & ACCESS PANELS						X	X			
PAINT & PREP TO RECEIVE TRADE DRESS						X	X			
RAILINGS						X	X			G.C. TO PROVIDE AND INSTALL NEW RAILINGS AS NOTED ON THE DRAWINGS.
FIRESTOPPING						X	X			
STRUCTURAL STEEL						X	X			
4. STOREFRONT										
STOREFRONT & EGRESS DOORS, FRAMES & HARDWARES	X									
EXTERIOR EXIT SYSTEM								X	X	SEE VENDOR CONTACT ON SHEET T1-01
MAINTENANCE OF EXISTING STOREFRONT DOOR	X					X	X			
CONSTRUCTION PAPER						X	X			
STOREFRONT LOUVERS										NOT APPLICABLE
WEATHERPROOFING / DOOR SWEEPS	X									
EXTERIOR SIGNAGE								X	X	SEE VENDOR CONTACT ON SHEET T1-01; ELECTRIC & BLOCKING BY GC
5. FIXTURES & TRADE DRESS										
LOCKERS							X	X		SEE VENDOR CONTACT ON SHEET T1-01
RETAIL MILLWORK							X	X		POWER FOR BEVERAGE COOLER BY GC
COACH'S STATION							X	X		GC TO COORDINATE HVAC, LIGHTING AND AUDIO CONTROLS WITH APPROPRIATE SUBCONTRACTOR/VENDOR
COAT RACK / HANGER							X	X		
BEVERAGE FRIDGE						X	X			
FITNESS MACHINES							X	X		SEE VENDOR CONTACT ON SHEET T1-01
STORAGE SHELVING						X	X			
RECEPTION DESK							X	X		
RESTROOM ACCESSORIES						X	X			INCLUDES MOP BROOM HOLDER & HAND DRYER; BLOCKING BY GC

RESPONSIBILITY MATRIX

ITEM DESC.	EXISTING	LANDLORD SUPPLY	LANDLORD INSTALL	[SOLIDCORE] SUPPLY	[SOLIDCORE] INSTALL	GENERAL CONTRACTOR SUPPLY	GENERAL CONTRACTOR INSTALL	[SOLIDCORE] VENDOR SUPPLY	[SOLIDCORE] VENDOR INSTALL	REMARKS
FIRE EXTINGUISHERS						X	X			
CODE SIGNAGE						X	X			
OPERATIONS TRADE DRESS (SWEATBAGS)							X	X		
INTERIOR SIGNAGE								X	X	SEE VENDOR CONTACT ON SHEET T1-01; ELECTRIC & BLOCKING BY GC
6. FIRE PROTECTION - FA & SPRINKLER										
MAGLOCK CONNECTIONS (IF APPLICABLE)						X	X			
BUILDING CONNECTIONS						X	X			
FA DEVICES AND DISTRIBUTION						X	X			AS REQUIRED BY CODE
EGRESS DOOR PULLSTATIONS						X	X			AS REQUIRED BY CODE
HVAC DUCT SMOKE DETECTORS						X	X			AS REQUIRED BY CODE
FA PANEL						X	X			AS REQUIRED BY CODE
FA PERMITS, APPROVALS & INSPECTIONS						X	X	X	X	AS REQUIRED BY CODE
CARBON / SMOKE DETECTORS						X	X			AS REQUIRED BY CODE
SPRINKLER PERMIT, APPROVALS, TESTING & INSPECTIONS						X	X	X	X	
SPRINKLER MAIN	X									
SPRINKLER SHUT-DOWN / DRAIN DOWNS						X	X			GC TO COORDINATE WITH LL REQUIREMENTS
EXISTING SPRINKLER SYSTEM MODIFICATIONS / DEMOLITION						X	X			
SPRINKLER DISTRIBUTION, CONNECTIONS & HEADS						X	X			
SPRINKLER FLOW / TAMPER DEVICES						X	X			
7. MECHANICAL										
HVAC UNITS & SUPPORTS						X	X			G.C. TO INSTALL NEW AHU UNITS & SUPPORTS
HVAC DISTRIBUTION - DUCTWORK, DIFFUSERS, ETC						X	X			
GRILLES & LOUVERS										NOT APPLICABLE
BUILDING CONNECTIONS						X	X			
BMS SYSTEM (IF APPLICABLE)						X	X			
EXHAUST FAN & VENTING						X	X			
AIR BALANCING & PROGRAMMING						X	X			
THERMOSTATS						X	X			
8. ELECTRICAL										
ELECTRICAL SERVICE	X									AS-IS, EXISTING 120/208V/3PH/4W 600A ELECTRICAL SERVICE
ELECTRICAL SUB-METER (IF APPLICABLE)						X	X			
STEP-DOWN TRANSFORMER & SUPPORTS										NOT APPLICABLE
DISTRIBUTION & ELECTRICAL PANELS	X									AS-IS. REUSE EXISTING 600A PANEL "A".
WIRING, CIRCUITING, RECEPTACLES, SWITCHES, ETC						X	X			
COMPLETE LIGHT PACKAGE INCLUDING FIXTURES, LAMPS & DRIVERS						X	X			SEE VENDOR CONTACT ON SHEET A9-20
EMERGENCY LIGHTING, EMERGENCY RELAY & EXIT SIGNS PER CODE						X	X			
LIGHTING CONTROLS						X	X			
HVAC CONNECTIONS						X	X			
EXTERIOR SIGNAGE CONNECTIONS AND TIMER						X	X			
ELECTRIC STRIKE / EXIT DOOR RELEASE								X	X	SEE VENDOR CONTACT ON SHEET T1-01
BUILDING CONNECTIONS						X	X			
LIFT / ELEVATOR ELECTRIC										NOT APPLICABLE
9. LOW VOLTAGE										
CONDUIT & PULL STRING						X	X			
TELEPHONE / WIFI WIRING & CONNECTIONS				X	X	X	X			GC TO PROVIDE POWER AS REQUIRED
FIRE-RATED PLYWOOD BACKING						X	X			
IT RACK								X	X	
CAT 6 WIRING & CONNECTIONS								X	X	
SPEAKER & MIC WIRING & CONNECTIONS								X	X	
AUDIO & MIC EQUIPMENT INSTALL & TESTING								X	X	
TELEPHONE & IT EQUIPMENT INSTALL & TESTING				X	X	X	X			GC TO PROVIDE POWER AS REQUIRED
EXIT RELEASE WIRING & CONNECTIONS						X	X	X	X	CONNECTION BY GC; WIRING BY SOLIDCORE VENDOR
EXIT RELEASE INSTALL & TESTING								X	X	
10. PLUMBING										
WATER SERVICE	X									AS-IS. EXISTING 2" WATER LINE
WATER SUBMETER						X	X			COORDINATE WITH LL ON SUBMETER SIZE AND LOCATION
WATER CONNECTIONS & DISTRIBUTION						X	X			
SANITARY SERVICE	X									AS-IS. SANITARY SERVICE. G.C. TO VERIFY SIZE AND LOCATION.
SANITARY CONNECTIONS & DISTRIBUTION						X	X			
SANITARY VENT CONNECTIONS & DISTRIBUTION						X	X			
GAS AND/OR STEAM SERVICE										NOT APPLICABLE
GAS AND/OR STEAM CONNECTIONS & DISTRIBUTION										NOT APPLICABLE
GAS AND/OR STEAM SUBMETER										NOT APPLICABLE
PLUMBING FIXTURES						X	X			INCLUDES MOP SINK & DRINKING FOUNTAIN
FLOOR DRAINS & CLEANOUTS						X	X			
BACKFLOW PREVENTOR						X	X			
HVAC CONNECTIONS						X	X			

GENERAL REQUIREMENTS

LANDLORD'S INSTRUCTIONS

PURPOSE:

THE FOLLOWING IS A LIST OF SOME OF THE LANDLORD'S INSTRUCTIONS TO GENERAL CONTRACTORS AND HIS/HER SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN LANDLORD'S COMPLETE REQUIREMENTS AND MAKE SURE THAT THE LANDLORD'S POLICIES ARE MET.

ROOF PENETRATIONS:

INSTRUCT ALL SUB-CONTRACTORS THAT ANYTHING THAT NEEDS TO BE ATTACHED ABOVE THE CEILING SHOULD BE ATTACHED TO THE ROOF STRUCTURE, NOT THE DECKING. ALL ROOF PENETRATIONS SHALL BE DONE BY LANDLORDS ROOFING CONTRACTOR TO MAINTAIN WARRANTY.

STRUCTURAL ELEMENTS:

DO NOT MAKE ANY CUTS TO ANY OF THE BUILDING ELEMENTS WITHOUT VERIFYING WHETHER OR NOT IT IS A STRUCTURAL ELEMENT. THIS INCLUDES ROOF BEAMS, ROOF DECK, MASONRY WALLS AND THE CONCRETE SLAB.

IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE INFORMATION, PLEASE CONTACT THE LANDLORD. LANDLORD CONTACT INFORMATION IS FOUND ON THE COVER SHEET.

A/C STARTUP:

CONTACT THE LANDLORD FOR ANY REQUIREMENTS ON THE START-UP OF LANDLORD PROVIDED ROOFTOP UNITS.

FIRE SYSTEM MONITORING: (IF REQUIRED)

VERIFY IF THE LANDLORD IS MONITORING THE FLOW AND TAMPER SWITCHES FOR THE SHELL BUILDING. IF THE SYSTEM IS OPERATIONAL, YOU MUST CONTACT THE LANDLORD PRIOR TO TAKING DOWN THE SYSTEM.

ANY FINES CHARGED BY THE FIRE DEPARTMENT FOR FALSE ALARMS WILL BE CHARGED BACK TO THE TENANT'S GENERAL CONTRACTOR.

ARCHITECT'S INSTRUCTIONS

SUBMITTALS:

IF ALTERNATE EQUIPMENT IS PROPOSED DUE TO LEAD TIME, THE ARCHITECT OR ENGINEER MAY REQUEST PAYMENT FROM G.C. FOR REVIEW OF THE SUBMITTAL. GENERAL CONTRACTOR MUST VERIFY LONG LEAD ITEMS AT START OF PROJECT TO AVOID DELAYS & ALTERNATES.

AS BUILTS:

THE GENERAL CONTRACTOR SHALL RED LINE ALL FIELD CHANGES ON A SET OF PRINTS TO REMAIN ON SITE THROUGHOUT THE CONSTRUCTION OF THE PROJECT. IT IS THE GC'S RESPONSIBILITY TO RECORD ALL FIELD CHANGES AND SUBMIT THE 'AS BUILTS' TO THE OWNER AT TURNOVER.

SPECIAL INSPECTIONS (IF REQUIRED)

1. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE FOLLOWING: CONCRETE, BOLT IN CONCRETE, REINFORCING STEEL, WELDING, SPECIAL GRADING, EXCAVATION & FILLING, & EIFS SYSTEMS. SPECIAL INSPECTIONS OF SPECIFIC ITEMS ARE TO BE PROVIDED ONLY IF REQUIRED BY LOCAL CODE OR CITY INSPECTORS. SPECIAL INSPECTIONS ARE IN ADDITION TO ALL STANDARD BUILDING INSPECTIONS REQUIRED & ARE NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. ALL WORK REQUIRING SPECIAL INSPECTION WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL AT THE CONTRACTORS EXPENSE.
2. CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS.
3. SPECIAL INSPECTORS MUST BE CERTIFIED BY ***AHJ*** TO PERFORM THE TYPES OF INSPECTIONS REQUIRED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
5. LICENSED FABRICATOR REQUIRED FOR STEEL SHAPES.
6. WELDING TO BE DONE BY WELDERS CERTIFIED BY ***AHJ*** (STRUCTURAL STEEL, REINFORCING STEEL & LIGHT GAUGE STEEL.)

G.C. COMPLIANCE

OWNER'S GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. TENANT'S GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES, INSURANCE, ETC., AS SET FORTH BY THE LANDLORD. GC TO VERIFY THE EXACT LOCATION OF ALL EXISTING LANDLORD FEATURES I.E. METAL BRACE FRAME, STOREFRONT OPENINGS, CORRIDOR ACCESS DOOR, DEMISING WALLS, UTILITY P.O.C., ETC.

FIRE SPRINKLERS

1. IF AN AUTOMATIC FIRE SPRINKLER SYSTEM EXISTS WITHIN THE SPACE. THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE LANDLORD'S, OR ANOTHER LICENSED FIRE SPRINKLER CONTRACTOR TO DESIGN AND INSTALL THE NEW SYSTEM TO CONFORM WITH THE NEW ROOM AND CEILING HEIGHTS AS SHOWN IN THESE DRAWINGS. THE SPRINKLER CONTRACTOR SHALL DESIGN AND PREPARE SHOP DRAWINGS FOR THE PROPOSED SYSTEM MODIFICATIONS & SUBMIT THESE DRAWINGS TO THE BLDG./FIRE DEPT. & THE ARCHITECT TO GAIN APPROVALS PRIOR TO COMMENCING ANY WORK. PUBLIC AREA HEADS TO BE CONCEALED TYPE W/ BLACK COVERS AT DARK CEILINGS, WHITE AT LIGHT CEILINGS & CHROME IN TOILETS. HEADS IN NON-PUBLIC AREAS ARE TO BE SEMI-RECESSED. INSTALLATION IS TO INCLUDE ALL SITE WORK.
2. COMPLETE PLANS AND SPECIFICATIONS FOR FIRE-EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES; HALON SYSTEMS AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISHING SYSTEMS; BASEMENT PIPE INLETS; AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. FIRE EXTINGUISHING SYSTEM SHALL BE IN ACCORDANCE WITH *IFC SECTION 903.*

SPRINKLER NOTES

1. EXISTING SPRINKLER SYSTEM TO REMAIN IF PRESENT.
2. SPRINKLER CONTRACTOR TO ADJUST AND/OR ADD HEADS AS REQ'D FOR NEW LAYOUT.
3. S.C. TO PROVIDE DRAWINGS AND CALCS FOR CITY APPROVAL.

FIRE ALARM (IF REQUIRED)

1. EXISTING FIRE PANEL TO REMAIN IF PRESENT. FIRE CONTRACTOR TO TIE INTO BUILDING SYSTEM OR PROVIDE NEW SYSTEM AS REQ'D BY ***AHJ*** TO PROVIDE DRAWINGS AND SPECIFICATIONS FOR THE LOCAL MUNICIPALITY.
2. THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE LANDLORD'S, OR ANOTHER LICENSED FIRE ALARM CONTRACTOR TO DESIGN AND INSTALL NEW SYSTEM W/ ALL REQUIRED DEVICES.

SIGNAGE

OWNER'S SIGNAGE CONTRACTOR SHALL PREPARE SIGNAGE SHOP DRAWINGS AND SUBMIT TO BUILDING DEPT. & LANDLORD FOR APPROVAL. ALL SIGNAGE IS UNDER SEPARATE PERMIT.

SPRINKLER NOTES

1. EXISTING SPRINKLER SYSTEM TO REMAIN.
2. SPRINKLER CONTRACTOR TO ADJUST AND/OR ADD HEADS AS REQ'D FOR NEW LAYOUT.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA
ERIC STYER
ARC102311
LICENSED
ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

GENERAL NOTES

G1-02

THESE DRAWINGS ARE CONFIDENTIAL AND SHALL BE IN THE POSSESSION OF AUTHORIZED INDIVIDUALS ONLY. THESE DOCUMENTS ARE THE EXCLUSIVE PROPERTY OF DXU ARCHITECTS AND SHALL NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN AUTHORIZATION

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GENERAL NOTES

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDER GROUND WORK.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS.
3. BIDDERS ARE INSTRUCTED TO CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS & SITE.
4. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OVER OR PLACED WITHIN THE PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING AND/OR PAVING.
5. CONTRACTOR TO COORDINATE STAGING AREAS AS REQUIRED WITH LANDLORD & OWNER.
6. ANY DAMAGE BY G.C. OR SUBCONTRACTOR TO EXISTING ASPHALT PAVEMENT AND/OR EXISTING LANDSCAPING OUTSIDE OF CONSTRUCTION LIMIT LINE SHALL BE REPAIRED AT NO COST TO OWNER.
7. SIDEWALK ELEVATIONS TO BE COORDINATED WITH SITE AS-BUILT CONDITIONS. ARCHITECT TO BE NOTIFIED OF ANY DISCREPANCIES.
8. G.C. TO COORDINATE LOCATION & PLACEMENT OF GREASE REMOVAL SYSTEM WITH PLUMBING CONTRACTOR. FIELD VERIFY ANY (E) SITE CONDITIONS THAT MAY IMPEDE INSTALLATION AND/OR OPERATION OF SUCH.
9. APPROVED NUMBERS OR ADDRESSES SHALL BE MAINTAINED & AS CURRENTLY PLACED ON BUILDING.
10. NO MATERIALS SHALL BE STORED ON PUBLIC PROPERTY UNLESS AN ENCROACHMENT PERMIT IS FIRST OBTAINED FROM THE PUBLIC WORKS DEPARTMENT.
11. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD AT FRAMED WALLS & SOFFITS, TYPICAL UNLESS OTHERWISE NOTED. AT MILLWORK LOW WALLS, DIMENSIONS ARE TO FACE OF FINISHED WALL, TYPICAL.
12. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE FOR PEDESTRIAN PROTECTION ACCORDING TO LOCAL REGULATIONS & BUILDING CODE.
13. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE SECURITY & SAFETY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETE.
15. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES
16. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY & WORK AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS TO THE OWNER.
18. CONTRACTOR SHALL COMPLY WITH ALL STATE & LOCAL RULES & REGULATIONS CONCERNING LICENSING WHICH THE APPLICABLE GOVERNING AUTHORITY MAY HAVE ADOPTED.
19. ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
20. GENERAL CONTRACTOR SHALL PLACE ORDERS FOR ALL FINISHES, ALL MATERIALS, EQUIPMENT, ETC. AT THE START OF THE PROJECT. SUBSTITUTIONS ARE NOT ACCEPTED FOR ANY ITEMS, UNLESS NOTED OTHERWISE. OWNER & ARCHITECT MUST BE INFORMED OF LEAD TIME PROBLEMS WITHIN THE FIRST TWO WEEKS OF THE PROJECT.
21. PROVIDE VENTILATION FOR KITCHEN & FOOD PREPARATION AREAS PER MECHANICAL DRAWINGS.
22. SIGNS ARE REQUIRED FOR ALL MP&E ROOMS & SPRINKLER CONTROL VALVE ROOMS.
23. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL HAVE EVIDENCE OF CURRENT WORKMENS COMPENSATION INSURANCE COVERAGE ON FILE WITH THE DEPARTMENT IN COMPLIANCE WITH THE LOCAL LABOR CODE.
24. AFTER OBTAINING BUILDING PERMIT AND BEFORE COMMENCING WITH THE WORK, THE GENERAL CONTRACTOR SHALL SHOW EVIDENCE OF ALL THE INSURANCE REQUIREMENTS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN ALL PERMITS AND LICENSES AND PAY REQUIRED FEES.
26. CONTRACTOR SHALL BE FAMILIAR WITH ALL LANDLORD REQUIREMENTS AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH SAME. CONTRACTOR SHALL INVESTIGATE LOCAL CODES AND PROCEDURES AND SHALL COMPLY WITH ALL REQUIREMENTS.
27. A COPY OF LANDLORD'S FINAL APPROVED PLANS MUST BE ON SITE DURING CONSTRUCTION.
28. REMOVE ALL ABANDONED IMPROVEMENTS, INCLUDING ELECTRICAL AND MECHANICAL, IF ANY.
29. INSPECT SITE: VERIFY FIELD DIMENSIONS BEFORE COMMENCING CONSTRUCTION. NOTIFY TENANT AND LANDLORD IMMEDIATELY IF THERE ARE ANY SIGNIFICANT DISCREPANCIES.
30. WHERE FACTORY FINISHED OR FACTORY PRIMED ITEMS OCCUR, SUCH AS GRILLES, DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC. THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE AND AS DIRECTED BY THE OWNER.
31. CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.
32. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, ETC. IN PUBLIC AREAS, UNO. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED.
33. GENERAL CONTRACTOR SHALL COORDINATE WORK PERFORMED BY OTHER CONTRACTORS. DISCREPANCIES IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
34. SHOULD THE DRAWINGS DISAGREE WITH THEMSELVES OR WITH THE SPECIFICATIONS OR SHOULD THE SPECIFICATIONS DISAGREE WITH THEMSELVES, THE BETTER QUALITY AND/OR GREATER QUANTITY OF WORK OR MATERIAL SHALL BE ESTIMATED UPON AND UNLESS OTHERWISE ORDERED IN WRITING SHALL BE FURNISHED AND INSTALLED.
35. NO SUBSTITUTIONS ARE PERMITTED UNLESS PRIOR APPROVAL BY THE OWNER.
36. IF ANY DISCREPANCIES APPEAR IN CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF SUCH DISCREPANCIES PRIOR TO BID.
37. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL SPECIFIED FINISH MATERIALS EQUIPMENT, LIGHT FIXTURES AND ANY OTHER SUCH MATERIAL (S) TO BE UTILIZED ON THE PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING WITHIN 10 DAYS OF THE DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE. IF NOTIFICATION IS NOT RECEIVED BY THE OWNER THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW-UP OF SPECIFIED ITEMS AND WILL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, INSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER AND NOT DELAY PROGRESS OF THE WORK. NO EXTENSION OF TIME TO THE CONTRACT WILL BE ALLOWED.
38. MECHANICAL CONTRACTORS SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURERS. MECHANICAL CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES, IF ANY.
39. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTER FLASHING, COPING AND EXPANSION JOINTS SHALL BE WEATHERPROOF.
40. CAULKING AND SEALANTS: ALL OPEN JOINTS PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER STRIPPED TO LIMIT AIR AND WATER LEAKAGE.
41. USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS CONDUITS, OUTLETS, SWITCHES, ETC. ON BOTH SIDES OF CROSSING/PENETRATING WALLS WITH THERMAL AND ACOUSTIC INSULATION.
42. ALL NOISE BARRIER BATTS (SOUND INSULATION) SHALL BE NON-COMBUSTIBLE.
43. EACH CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION ON A DAILY BASIS AND UPON CONCLUSION OF HIS WORK. ALL WASTE, RUBBISH AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH GENERATED BY OWNERS CONTRACTORS FOR THE DURATION OF THE PROJECT.
44. SAFETY: ALL CONDUIT, WORK EQUIPMENT AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE WORK.
45. CONSULT PROPERTY UTILITY PLANS BEFORE SAW CUTTING CONCRETE SLAB, IF ANY.
46. THE ARCHITECT WILL NEITHER HAVE CONTROL OVER OR CHARGE OF, NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES.

FIRE DEPARTMENT NOTES

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.
2. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 40-B FOR KITCHEN. LOCATE EXTINGUISHERS PER LOCAL FIRE DEPARTMENT INSPECTOR.
3. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.
4. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.
5. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO DEAD BOLTS, NO SLIDING BOLTS, ETC.).
6. AN OCCUPANT LOAD SIGN SHALL BE POSTED IN EACH ASSEMBLY ROOM HAVING AN OCCUPANT CONTENT OF 50 OR MORE. SIGN IS TO BE POSTED NEAR ENTRANCE. COORDINATE LOCATION OF SUCH SIGN WITH FIRE MARSHAL. SIGN TO BE PROVIDED & INSTALLED BY OWNER VENDOR.
7. MAINTAIN MIN. 44" AISLES TO EXIT OR PUBLIC WAY.
8. PROVIDE EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING BACKGROUND.
9. EXIT SIGNS MUST BE INTERNALLY ILLUMINATED.
10. PROVIDE TWO (2) SEPARATE POWER SUPPLIES FOR EXIT SIGNS CONFORMING TO CODE SECTION.
11. PROVIDE EMERGENCY EXIT LIGHTING PROVIDING A VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL.
12. ADDITIONAL EXIT SIGNS WILL BE PROVIDED AS/IF DIRECTED BY THE CITY INSPECTOR.
13. SEE "ROOM FINISH SCHEDULE" FOR SMOKE DENSITY RATING & FLAME SPREAD RATING OF MATERIALS USED.
14. INTERIOR WALL & CEILING FINISHES FOR ASSEMBLY AREAS SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING OF 20.
15. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANNER.
16. DRAPES & OTHER DECORATIVE MATERIALS SHALL BE FLAME RETARDANT. CERTIFICATION THEREOF SHALL BE PROVIDED. EXITS, EXIT SIGNS, FIRE ALARM STATIONS, HOSE CABINETS & EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED BY DECORATIVE MATERIALS.
17. FINISHES SHALL NOT EXCEED CLASS A, B OR C AS INDICATED IN THE BUILDING CODE.
18. PROVIDE OUTSIDE GAS SHUT - OFF VALVE CONSPICUOUSLY MARKED.
19. UNLESS ALREADY EXISTING, AN APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH OF NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. THE NUMBERING SHALL BE PLACED IN SUCH A POSITION AS TO BE PLAINLY VISIBLE & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SAID NUMERALS SHALL CONTRAST W/ THEIR BACKGROUND. IF THE ADDRESS THAT IS POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET OR ROAD FRONTING THE PROPERTY IS NOT VISIBLE, ADDITIONAL ADDRESSES POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET ARE REQUIRED. (VERIFY REQUIREMENTS.)
20. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, LOCATION AS DETERMINED BY FIRE MARSHAL.
21. EXIT SIGNAGE SHALL BE PROVIDED & MAINTAINED FOR CORRIDORS & AISLE WAYS LEADING TO EXITS IN ACCORDANCE WITH STATE CODE. SIGNAGE SHALL STATE: "OBSTRUCTIONS, INCLUDING STORAGE, SHALL NOT BE PLACED IN THE REQUIRED WIDTH OF AN EXIT OR EXIT PASSAGEWAY."
22. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPYING THIS BUILDING.
23. FIRE DEPARTMENT FINAL INSPECTION REQUIRED. G.C. TO VERIFY INSPECTION SCHEDULING REQUIREMENTS AT LEAST 14 DAYS PRIOR TO COMPLETION OF WORK.
24. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE & COMBUSTIBLE LIQUIDS, FLAMMABLE & COMPRESSED GASES & OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH STATE BUILDING CODE REGULATIONS.
25. ANY TYPE I HOOD INSTALLATION & SHAFT CONSTRUCTION MUST COMPLY WITH THE STATE & MECH CODE.
26. WHEN ALLOWED BY FIRE MARSHAL AND/OR BUILDING INSPECTOR, FIRE BLOCKS CAN BE SUBSTITUTED WITH APPROVED FIRE SPRINKLER SYSTEM.
27. IN ADDITION TO THE SPRINKLER MONITORING SYSTEM, A FIRE SYSTEM PER NFPA #13 SPECIFICATIONS MUST BE INSTALLED. PLANS FOR THE FIRE ALARM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR FIRE DEPARTMENT REVIEW PRIOR TO INSTALLATION. THE KITCHEN HOOD FIRE PROTECTION SYSTEM WILL CAUSE INITIATION OF AN ALARM SIGNAL.
28. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE PROVIDED WITH PANIC HARDWARE.
29. PLANS FOR THE KITCHEN HOOD FIRE PROTECTION SYSTEM MUST BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION.
30. THE FIRE SPRINKLER SYSTEM DESIGN CRITERIA IS AS SET FORTH BY THE FIRE MARSHAL.
31. PREMISES IDENTIFICATION TO BE LEGIBLE FROM STREET OR DRIVE & MUST BE ON ALL PLANS.
32. IT IS THE DEVELOPERS RESPONSIBILITY TO DETERMINE ULTIMATE COMPLIANCE WITH THE FAIR HOUSING AMENDMENTS ACT & AMERICANS WITH DISABILITIES ACT & INCORPORATE SAME INTO THEIR BUILDING PLANS (PER C.O.S. 91-3)
33. BACK FLOW PREVENTION WILL BE REQUIRED ON VERTICAL RISER ON CLASS I & II FIRE SPRINKLER SYSTEM PER *DISTRICT OF COLUMBIA* CITY CODE.
34. PROVIDE ALL WEATHER ACCESS ROAD (MIN 20') TO ALL BUILDINGS & HYDRANTS FROM PUBLIC WAY DURING CONSTRUCTION.
35. NUMBER OF REQUIRED FIRE HYDRANTS EX. DEVELOPER SHALL HAVE THE REQUIRED HYDRANTS INSTALLED & OPERABLE PRIOR TO THE FOOTING INSPECTION. DEVELOPER TO PROVIDE WAIVER OF FIRE DEPARTMENT RESPONSIBILITY OR COPY OF CURRENT CITY APPROVED CIVIL WATER PLANS TO FIRE SPRINKLER CONTRACTOR FOR LOCATING NEW AND/OR EXISTING HYDRANT WATER MAIN SUPPLY DATA. SPACED MAX O/C 500' AT 1,500 GPM.
36. EXIT & EMERGENCY LIGHTING SHALL COMPLY WITH THE CITY ORDINANCE & 2006 IFC.
37. FIRELINE, SPRINKLER & STANDPIPE SYSTEM TO BE FLUSHED & PRESSURE TESTED PER NFPA STANDARDS & *DISTRICT OF COLUMBIA* CODES.
38. FDC SIAMESE CONNECTIONS FOR SPRINKLERS AND/OR STANDPIPES WILL BE LOCATED PER ORDINANCE OR AT AN APPROVED LOCATION MIN. SIZE 2 1/2" X 2 1/2" X 4" (NHST) BUILDING MOUNTED.
39. SPRINKLER SYSTEM SHALL BE INSTALLED TO COMPLY WITH MINIMUM NFPA CRITERIA & CITY ORDINANCE. SYSTEMS WITH 20 HEADS OR MORE SHALL HAVE OFF-SITE MONITORING. AFTER BUILDING PLAN REVIEW, INSTALLING CONTRACTOR SHALL SUBMIT (3) COMPLETE SETS OF DRAWINGS & HYDRAULIC CALCULATIONS.
40. REVIEWED BY MINIMUM NICET III DESIGN TECHNICIAN. NFPA COMMERCIAL SYSTEM / DESIGN CRITERIA : ORD. GR. II - 0.20/1500 (1996 EDITION) - PE STAMP REQUIRED
41. CONSTRUCTION WITHIN *DISTRICT OF COLUMBIA* SHALL COMPLY WITH THE DISTRICT OF COLUMBIA FIRE CODE STANDARDS, AS AMENDED BY THE COUNTY CONSTRUCTION ORDINANCE, SUBTITLE 11.
42. THE APPLICANT IS RESPONSIBLE TO IDENTIFY & COORDINATE DEFERRED SUBMITTALS.
43. THE FIRE SPRINKLER RISER SHALL BE LOCATED INSIDE BUILDING WITH DIRECT EXTERIOR ACCESS. ALL OCCUPANCIES ARE REQUIRED TO PROVIDE EXTERIOR ACCESS TO A FIRE RISER ROOM DESIGNED FOR THE FIRE SYSTEMS ONLY.
44. FIRE DEPARTMENT INLET CONNECTIONS (FDC) SHALL BE LOCATED ON THE WALL OF THE ADDRESS SIDE OR NATURAL APPROACH OF THE BUILDING IT SERVES & SHALL IDENTIFY THE BUILDING(S) SERVED WITH PERMANENT SIGNAGE.
45. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS & WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLER HEADS EXCEEDS 19. IBC SECTION 903.4.
46. IN ADDITION TO THE EXTERIOR BELL OR HORN, AN APPROVED AUDIBLE/VISUAL FIRE SPRINKLER FLOW ALARM SHALL BE PROVIDED IN THE INTERIOR OF ALL BUILDINGS IN A NORMALLY OCCUPIED LOCATION. THE A/V DEVICE SHALL BE A MINIMUM OF 75 CD LUMENS & 15 DB ABOVE THE AMBIENT SOUND LEVEL. IFC SECTION 907.10 & ADAAG SECTION 4.28.
47. A FIRE HYDRANT SHALL BE LOCATED WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION (FDC). THE ROUTE IS TO BE MEASURED AS THE FIRE HOSE WOULD BE LAID OUT & IS NOT MEASURED IN A CIRCLE AROUND THE FIRE HYDRANT, & DOES NOT GO THROUGH WATER RETENTION BASINS, OVER WALLS OR SIMILAR OBSTRUCTIONS.
48. THE MINIMUM NUMBER OF FIRE HYDRANTS SHALL NOT BE LESS THAN REQUIRED PER 2003 IFC APPENDIX B & C. THE MINIMUM REQUIRED FIRE FLOW IS 1500 (GPM) AT 20 (PSI) RESIDUAL PRESSURE. WHEN ANY PORTION OF THE FACILITY OR BUILDING IS IN EXCESS OF 150' OF AN APPROVED WATER SUPPLY ON A PUBLIC STREET, AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE FACILITY OR BUILDING, ON-SITE FIRE HYDRANTS & MAINS CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW SHALL BE PROVIDED. FIRE HYDRANTS SHALL BE LOCATED ALONG THE ROUTE OF THE FIRE APPARATUS ACCESS ROADWAY. FIRE HYDRANTS SUBJECTED TO VEHICULAR DAMAGE SHALL BE PROTECTED WITH GUARD POSTS.
49. PLANS & SPECIFICATIONS FOR FIRE SPRINKLER SYSTEMS EXCEEDING 19 HEADS SUBMITTED FOR REVIEW SHALL BE SEALED BY A QUALIFIED *DISTRICT OF COLUMBIA* REGISTRANT IN FIRE SPRINKLER DESIGN. THE INSTALLING CONTRACTOR'S NAME, ADDRESS & PHONE NUMBER ARE TO BE INCLUDED ON THE DRAWINGS & CALCULATIONS SUBMITTED FOR REVIEW & APPROVAL. AS-BUILT DRAWINGS WILL BE REQUIRED WHERE FIELD CHANGES ARE MADE TO THE DESIGNED DRAWINGS.
50. FIRE SPRINKLERS SHALL BE INSTALLED IN ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION.
51. A FIRE ACCESS ROAD SHALL BE PROVIDED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE 1ST STORY IS LOCATED MORE THAN 150' FROM FIRE APPARATUS ACCESS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING. THE ROUTE IS TO BE MEASURED AROUND THE BUILDING AS THE FIRE HOSE WOULD BE LAID OUT & IS NOT MEASURED THROUGH INTERIOR OR COVERED WALKWAYS OR WATER RETENTION BASINS. THE ROUTE OF THE FIRE APPARATUS ACCESS ROAD SHALL BE APPROVED BY THE FIRE DEPARTMENT.
52. APPARATUS ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 20 FEET. (FOC). A MIN. VERTICAL CLEARANCE OF 15 FEET 0 INCHES SHALL BE PROVIDED FOR THE APPARATUS ACCESS ROADS. CONFIRM FIRE APPARATUS TURNING RADIUS 35 FEET INSIDE & 55 FEET OUTSIDE (FOC).
53. FIRE LANES SHALL BE MARKED BY SIGNS PER TOG DETAIL #63, AND/OR CURB PAINTED RED & LABELED "FIRE LANE NO PARKING" PLACED NOT GREATER THAN 75' APART AT THE BEGINNING & END OF THE DESIGNATED FIRE LANE.
54. DEAD-END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED MEANS FOR TURNING THE APPARATUS AROUND.
55. AN APPROVED KEY BOX IS REQUIRED ON ALL COMMERCIAL STRUCTURES THAT CONTAIN OFF SITE MONITORED FIRE SPRINKLERS, A FIRE ALARM SYSTEM OR WHEN ACCESS IS DIFFICULT & WHERE IMMEDIATE ACCESS IS REQUIRED FOR LIFE SAVING OR FIREFIGHTING.
56. PLANS & SPECIFICATIONS FOR FIRE ALARM SYSTEMS, AUTOMATIC FIRE-EXTINGUISHING SYSTEMS, STANDPIPES & THEIR APPURTENANCES SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.

GENERAL FIRE ALARM SYSTEM NOTES

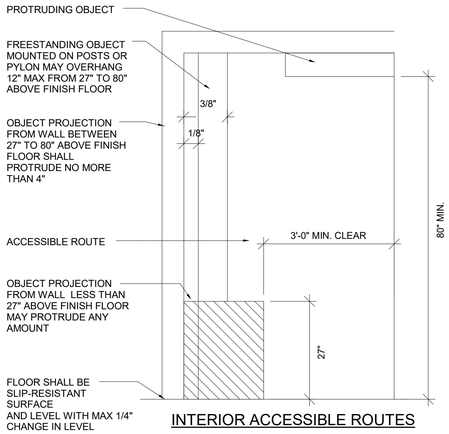
1. PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SUBMITTED FOR REVIEW SHALL BE SEALED BY A QUALIFIED *DISTRICT OF COLUMBIA* REGISTRANT IN FIRE ALARM SYSTEM DESIGN.
2. ALARM INITIATING DEVICES, ALARM SIGNALING DEVICES, AND OTHER FIRE ALARM SYSTEM COMPONENTS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IFC SECTION 907.
3. WHEN DUCT DETECTORS, REQUIRED BY IMC 606 OR IFC AND IBC SECTION 909, ARE CONCEALED FROM VIEW OR INSTALLED MORE THAN 10 FEET ABOVE FINISHED FLOOR OR IN ARRANGEMENTS WHERE THE DETECTOR'S ALARM INDICATOR IS NOT READILY VISIBLE TO RESPONDING PERSONNEL, AN LED SHALL BE PROVIDED THROUGH THE CEILING LEVEL OR SIGHT OBSTRUCTION AT EACH DETECTOR. ALL DETECTION DEVICES PROVIDED SHALL BE MONITORED FOR INTEGRITY BY THE FIRE ALARM SYSTEM WHERE A FIRE ALARM IS INSTALLED.

FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION OF A BUILDING

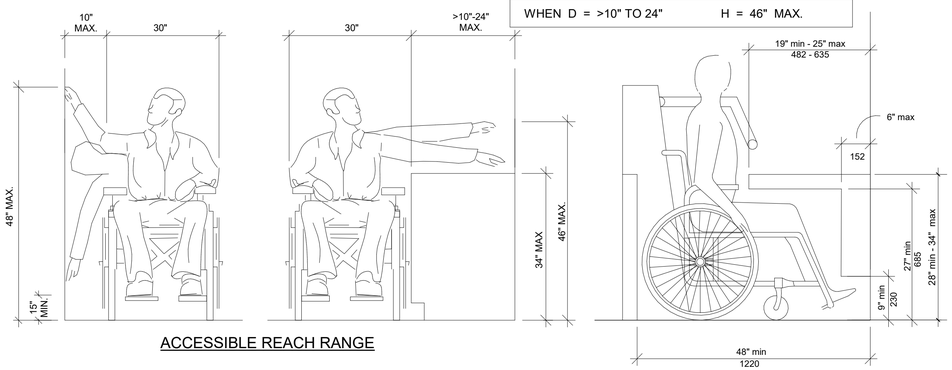
1. DURING CONSTRUCTION, YOU MUST PROVIDE AND MAINTAIN AN ALL WEATHER ROAD DESIGNED TO SUPPORT THE IMPOSED LOAD OF FIRE APPARATUS WEIGHING UP TO 85,000 POUNDS. SITES SHALL HAVE TWO POINTS OF ACCESS OR AS INDICATED AT PLAN REVIEW OR BY THE FIRE INSPECTOR. UNPAVED SURFACES SHALL HAVE A MINIMUM ABC 6" DEPTH COMPACTION TO 95% AND 20' WIDE. NO VEHICLE PARKING OR BUILDING MATERIAL OFF-LOADING ALLOWED ON THE EMERGENCY ACCESS ROAD. FIRE LANE SIGNS ARE REQUIRED TO BE POSTED ALONG THE ROAD.
2. A SIGN SHALL BE POSTED AT THE MAIN STREET ENTRANCE INDICATING EMERGENCY VEHICLE ENTRANCE, THE PROJECT NAME, THE PROJECT ADDRESS, AND AN EMERGENCY CONTACT NUMBER OF A COMPANY REPRESENTATIVE. THE SIGN SHALL BE A MINIMUM OF 24" HIGH X 36" WIDE WITH WHITE REFLECTIVE BACKGROUND AND 3" RED REFLECTIVE LETTERS. IN ADDITION ALL OFF-SITE WORK SHALL HAVE A SIGN POSTED AT THE MAIN STREET ENTRANCE THAT IS REFLECTIVE OF THE GEOGRAPHICAL LOCATION TO THE PROJECT. THE SIGN SHALL INCLUDE THE PROJECT NAME FOLLOWED BY THE CAPTION "OFF SITE" AND THE GEOGRAPHICAL LOCATION.
3. ALL SITE HYDRANTS SHALL BE INSTALLED AND ACCEPTED BY THE TOWN ENGINEERING DEPARTMENT PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE CONSTRUCTION SITE.
4. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN ACCORDANCE WITH IFC CHAPTER 14.

ACCESSIBILITY NOTES

1. ACCESS TO THESE FACILITIES SHALL BE PROVIDED AT PRIMARY ENTRANCES, AS REQUIRED BY ADA.
2. WALKS & SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" & SHALL BE A MIN. OF 48" IN WIDTH.
3. SURFACES WITH A SLOPE OF LESS THAN 6% GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.
4. SURFACES WITH A SLOPE OF 6% GRADIENT OR GREATER SHALL BE SLIP RESISTANT.
5. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4" PER FOOT.
6. WALKS, SIDEWALKS & PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN THE GRATINGS SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
7. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL, IT SHALL COMPLY WITH THE PROVISIONS OF A PEDESTRIAN RAMP.
8. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.
9. EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 3 FT. WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90° & MOUNTED SO THAT THE CLEAR WIDTH OF THE EXIT WAY IS 32" MIN.
10. THRESHOLDS TO BE A MAX. 1/2" ABOVE ADJACENT FINISH FLOOR.
11. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR ALL DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS.
12. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC & SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
13. PROVIDE LEVER-TYPE HARDWARE PANIC BARS, PUSH - PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)
14. ALL DOORWAYS LEADING TO SANITARY FACILITIES SHALL HAVE 32" CLEAR UNOBSTRUCTED OPENING & A LEVEL & CLEAR AREA FOR A MINIMUM DEPTH OF 60" IN THE DIRECTION OF THE DOOR SWING.
15. PROVIDE 18" FROM WALL TO CENTERLINE OF W.C. & 32" FROM A WALL AT ONE SIDE & 48" IN FRONT OF W.C.
16. PROVIDE 30"X48" LONG SPACE IN FRONT OF TOILET & WITHIN THE TOILET ROOM THAT ALLOWS THE DOOR TO CLOSE
17. GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE & THE BACK OF PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT SHALL BE SECURELY ATTACHED 33" (36" FOR TANK-TYPE TOILETS) ABOVE AND PARALLEL TO THE FLOOR. GRAB BARS AT THE SIDE SHALL BE LOCATED 15" TO 16 1/2" FROM THE CENTERLINE OF THE WATER CLOSET STOOL & SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1 1/4" TO 1 1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURF



INTERIOR ACCESSIBLE ROUTES

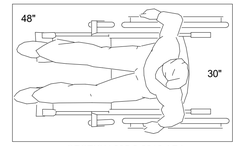


ACCESSIBLE REACH RANGE

CORRESPONDING REACH HEIGHTS FOR GIVEN DEPTHS:	
WHEN D = 10" OR LESS,	H = 48" MAX.
WHEN D = >10" TO 24"	H = 46" MAX.

2010 ADA/ADAGA
AT LEAST 60 PERCENT, BUT NOT LESS THAN ONE OF THE ENTRANCES TO EACH BUILDING AND STRUCTURE TO EACH SEPARATE SPACE WITHIN THE BUILDING OR STRUCTURE SHALL COMPLY WITH THE ACCESSIBLE ROUTE PROVISIONS OF THIS CHAPTER. ALL REQUIRED EXITS FOR EGRESS SHALL COMPLY WITH THESE REQUIREMENTS

WHEELCHAIR SPACE



SECTION 305.3 2010 ADA

CLEAR FLOOR & TURNING SPACE

ACCESSIBLE CLEAR FLOOR SPACE

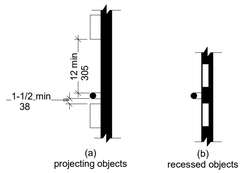


FIGURE 609.3
SPACING OF GRAB BARS

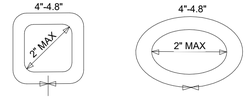
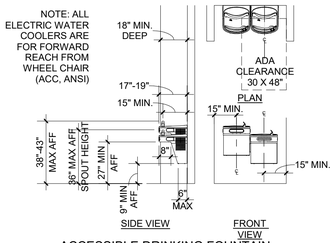
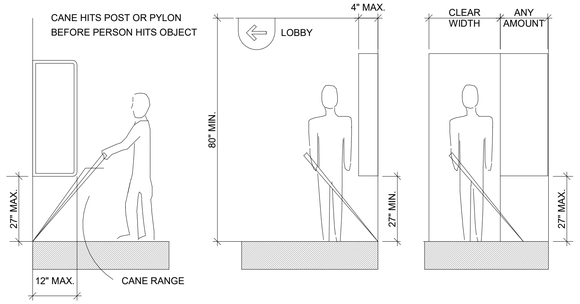


FIGURE 609.2.2
GRAB BAR NON-CIRCULAR CROSS SECTION

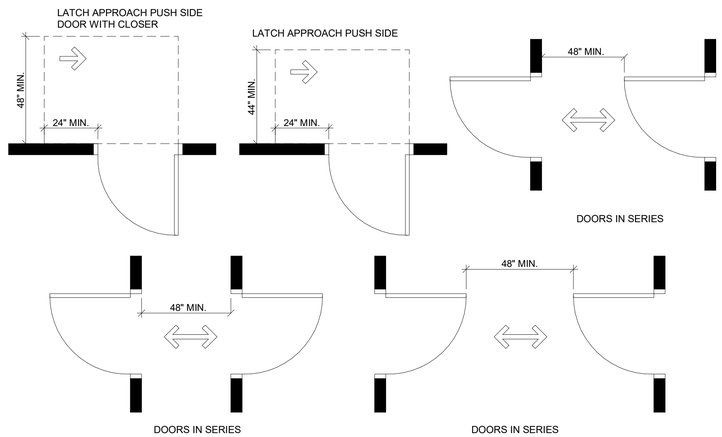
GRAB BARS



ACCESSIBLE DRINKING FOUNTAIN

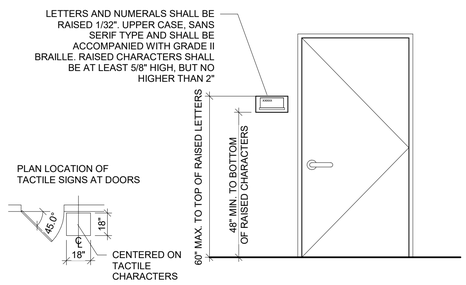


PROTRUDING OBJECTS

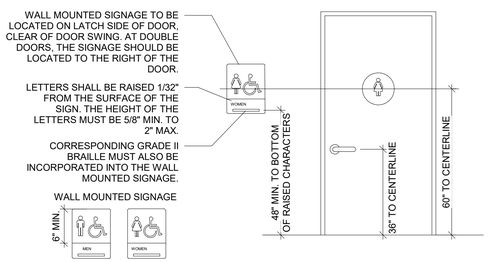


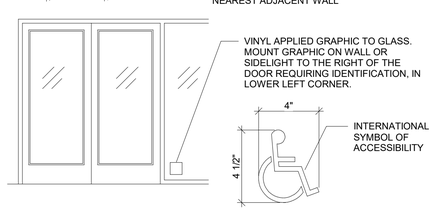
DOOR CLEARANCES

TACTILE SIGNAGE



SIGNAGE MOUNTING DIAGRAMS

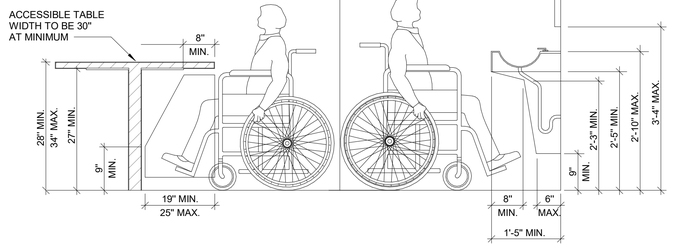




TACTILE SIGNAGE DIAGRAMS

ACCESSIBLE TABLE SEATING DETAIL

ACCESSIBLE LAVATORY DETAIL



ACCESSIBLE ILLUSTRATIONS

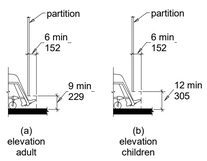


FIGURE 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

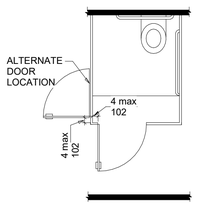


FIGURE 604.8.1.2
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

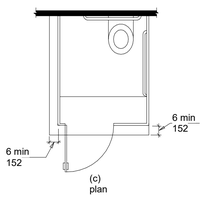


FIGURE 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377
DRAWN BY: SM
APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA
ERIC STYER
ARC102311
LICENSED
ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

ACCESSIBILITY STANDARD DETAILS

G1-10

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LEGEND

- EXISTING PARTITIONS AND EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- NEW PARTITIONS
- NEW CONCRETE SLAB, SEE STRUCTURAL SHEETS FOR MORE INFORMATION.
- EXISTING CONCRETE SLAB
- N.I.C.

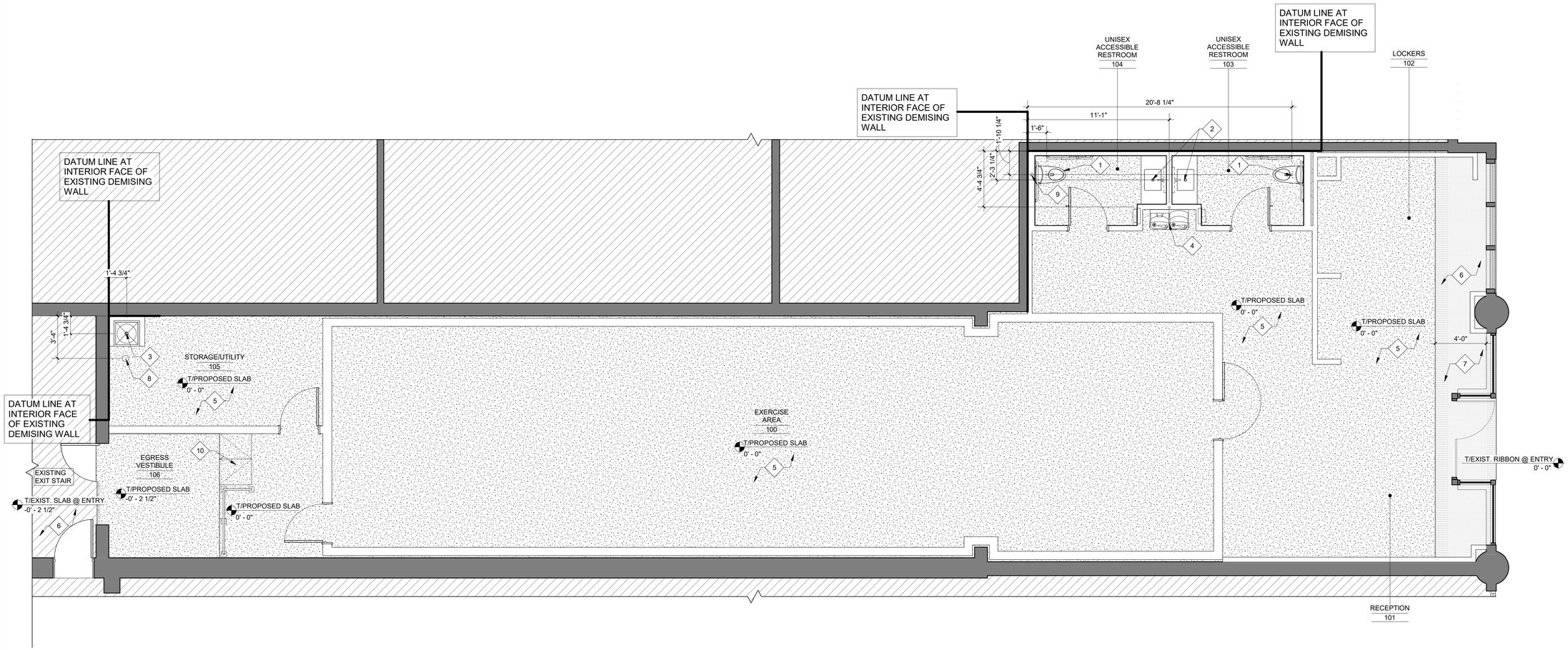
DIMENSION NOTES

1. DIMENSIONS ARE TO CENTERLINES OF PROPOSED PLUMBING FIXTURES.
2. ALL INTERIOR DIMENSIONS ORIGINATE FROM ESTABLISHED DATUM LINES. ESTABLISH DATUM LINES PRIOR TO LOCATING WALLS, DRAINS, FIXTURES, ETC.

KEYNOTES

INDICATED BY ◇ SYMBOL

1 FLOOR MOUNTED TOILET - SEE PLUMBING DWGS FOR MORE INFORMATION.
2 LAVATORY - SEE PLUMBING DWGS FOR MORE INFORMATION.
3 MOP SINK - SEE PLUMBING DWGS FOR MORE INFORMATION.
4 DRINKING FOUNTAIN - SEE PLUMBING DWGS FOR MORE INFORMATION.
5 DEMOLISH AND REMOVE EXISTING SLAB FOR PROPOSED CONCRETE SLAB. SEE STRUCTURAL DRAWING S2.1 FOR MORE INFORMATION.
6 G.C. TO VERIFY ELEVATION OF EXISTING TO REMAIN SLAB AND REPORT DISCREPANCIES TO ARCHITECT.
7 EXISTING 4'-0" CONCRETE RIBBON.
8 FLOOR CLEAN-OUT - SEE PLUMBING DWGS FOR MORE INFORMATION.
9 WALL CLEAN-OUT - SEE PLUMBING DWGS FOR MORE INFORMATION.
10 CONCRETE RAMP, 1:12 SLOPE MAX. SEE A1-21 AND A1-31 FOR MORE INFORMATION.



1 GROUND FLOOR PENETRATION/SLAB PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA ERIC STYER ARC102311 LICENSED ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

GROUND FLOOR PENETRATION/SLAB PLAN

A1-11

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LEGEND

- EXISTING PARTITIONS & EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- NEW PARTITIONS
- NEW PARTIAL HEIGHT PARTITIONS
- N.I.C.

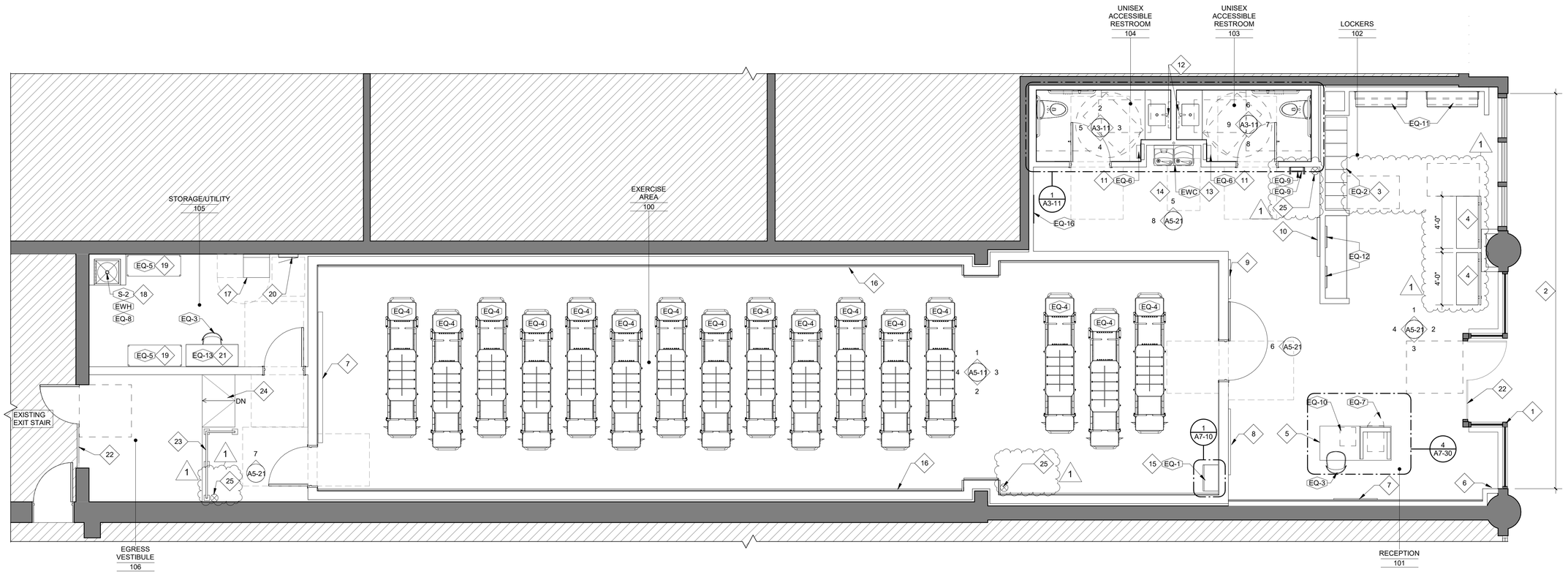
SYMBOL LEGEND

XX — FIXTURE & EQUIPMENT SEE FIXTURE AND EQUIPMENT SCHEDULE ON SHEET A9-10

KEYNOTES

INDICATED BY ◇ SYMBOL

1. KEYPAD AT EXTERIOR OF DOOR WITH ELECTRIC RELEASE LOCK BY SECURITY VENDOR. EXACT REQUIREMENTS TO BE COORDINATED WITH EXISTING HARDWARE. CONNECT TO FIRE ALARM SYSTEM AND SEE ELECTRICAL DRAWINGS AND A9-10 FOR MORE INFORMATION.
2. EXISTING EXTERIOR STOREFRONT TO REMAIN, TYPICAL.
3. LOCKERS PROVIDED BY SOLIDCORE, TRIM PROVIDED BY MILLWORKER, INSTALLED BY G.C. VERIFY SIZE, CONFIGURATION, AND QUANTITY OF LOCKERS WITH SOLIDCORE.
4. 48" X 20" BENCH PROVIDED AND INSTALLED BY G.C. TOP OF BACK SUPPORT TO BE 18" MIN. ABOVE TOP OF BENCH SEAT. TOP OF BENCH SEAT SURFACE TO BE SLIP RESISTANT AND TO BE 17"-19" AFF. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE. GC TO PROVIDE BLOCKING AS REQUIRED.
5. CUSTOM MILLWORK DESK - PROVIDED BY SOLIDCORE, INSTALLED BY G.C. SEE A7-30 FOR MILLWORK DETAILS.
6. LOCATION OF LOBBY LIGHTING, CONTROLS & TSTAT
7. LOGO SIGN - PROVIDED AND INSTALLED BY SIGN VENDOR.
8. BRACKET SIGNAGE. TO BE PROVIDED BY SIGNAGE VENDOR.
9. CHALLENGE BOARD LOCATION, BY OWNER.
10. COACH BIO BOARD LOCATION. BY OWNER.
11. ELECTRIC RECESSED HAND DRYER PROVIDED AND INSTALLED BY G.C. MOUNT WITH CENTERLINE @ 48"" AFF MAXIMUM. SEE SHEET A3-11 RESTROOM ELEVATIONS.
12. G.C. TO INSTALL WALL MOUNTED LIGHTED VANITY ON RESTROOM WALL AS INDICATED. SEE SHEETS A2-10, A3-11 FOR MORE INFORMATION.
13. ACCESSIBLE HIGH-LOW WATER FOUNTAIN WITH BOTTLE FILL FUNCTION. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
14. STORAGE ABOVE DRINKING FOUNTAIN - MILLWORK TO BE PROVIDED AND INSTALLED BY SOLIDCORE MILLWORK VENDOR.
15. COACH'S STATION - PROVIDED BY SOLIDCORE AND INSTALLED BY GC. SEE DETAIL 1/A7-10 FOR MORE INFORMATION.
16. G.C. TO INSTALL WALL-MOUNTED STUDIO MIRRORS ACROSS ENTIRE LENGTH OF WALL. SEE DETAIL 1/A7-20.
17. SOUND RACK BY AUDIO VENDOR - SEE ELECTRICAL DRAWINGS AND DETAIL 4/A7-20 FOR MORE INFORMATION.
18. MOP SINK AND WATER HEATER - SEE DETAIL 3/A7-10, SHEET A9-10 AND PLUMBING DRAWINGS FOR MORE INFORMATION.
19. ADJUSTABLE SHELVING UNIT PROVIDED AND INSTALLED BY GC. SEE A9-10 FOR EQUIPMENT SCHEDULE.
20. ELECTRICAL PANEL - SEE ELECTRICAL DWGS FOR MORE INFORMATION.
21. DESK LOCATION - PROVIDED BY OWNER & INSTALLED BY G.C.
22. DOOR LEAF TO BE MADE INACTIVE. REMOVE EXISTING HARDWARE AS REQUIRED.
23. G.C. TO PROVIDE AND INSTALL RAIL AS INDICATED - 1 1/2" DIAMETER PIPE RAIL, T/RAIL 34" AFF, P4 FINISH - SEE INTERIOR ELEVATION SHEETS AND STRUCTURAL DRAWINGS FOR MORE INFO.
24. ADA COMPLIANT RAMP, 1:12 MAX SLOPE.
25. SURFACE MOUNTED FIRE EXTINGUISHER - SEE FIRE EXTINGUISHER SPECS UNDER FIRE DEPARTMENT NOTES ON SHEETS G1-01 & G1-03. CONFIRM LOCATION WITH OWNER. FINAL LOCATIONS AND QUANTITIES SUBJECT TO FIRE MARSHALL'S DETERMINATION.



1 GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA
ERIC STYER
ARC102311
LICENSED
ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

GROUND FLOOR PLAN

A1-21

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DIMENSION NOTES

1. DIMENSIONS ARE TO FACE OF EXISTING STOREFRONT FRAME, FINISHED EXTERIOR WALL & FINISHED FACE OF DEMISING WALL
2. ALL INTERIOR DIMENSIONS ORIGINATE FROM ESTABLISHED DATUM LINES. ESTABLISH DATUM LINES PRIOR TO LOCATING WALLS, DRAINS, FIXTURES, ETC.

NOTE: ALL WOOD BLOCKING TO BE FIRE-RET. TREATED PLYWOOD.

LEGEND

- NEW PARTITIONS
- EXISTING PARTITIONS & EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- N.I.C.
- XXX — SEE DOOR SCHEDULE ON SHEET A9-10 FOR MORE INFORMATION
- #X — SEE PARTITION SCHEDULE ON SHEETS A8-10 FOR MORE INFORMATION

PLAN GENERAL NOTES

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT
2. ALL FIRE RATED DOORS TO BE SELF-CLOSING
3. ALL INTERIOR FINISHES TO BE CLASS A WITH FLAME SPREAD RATING OF 0-25, U.O.N.
4. SEE MECHANICAL DRAWINGS FOR LIGHT AND VENT SCHEDULES
5. DO NOT FASTEN STUDS OR GYPSUM BD. TO TOP RUNNER OF NON-BEARING GYP. BD. PARTITIONS. CUT STUDS AND GYP. BD. 1/2" MAX. SHORT TO ALLOW FOR VERTICAL SLAB DEFLECTION
6. ALL DIMENSIONS TO BE FINISHED SURFACE U.N.O
7. GC TO COORDINATE ALL CEILING HEIGHTS W/ BUILDING SYSTEMS. OWNER TO APPROVE ALL CEILING HEIGHTS BEFORE INSTALLATION
8. THE ARCHITECT WILL NEITHER HAVE CONTROL OVER OR CHARGE OF, NOR BE RESPONSIBLE FOR, THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION W/ THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES
9. CONTRACTOR IS REQ'D TO HANG THE OWNERS INTERIOR SIGN PACKAGE
10. ALL GLAZED DOORS, ANY GLAZED PANEL ADJACENT TO ANY DOOR & ANY GLAZED PANEL WHICH MEETS ALL OF THE FOLLOWING CONDITIONS:
    - A. EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 S.F.
    - B. EXPOSED BOTTOM EDGE LESS THAN 18" A.F.F.
    - C. EXPOSED TOP EDGE GREATER THAN 36" A.F.F.
    - D. ONE OR MORE WALKING SURFACE(S) WITHIN 36" HORIZONTALLY OF THE PLANE OF THE GLAZING, SHALL ALL BE TEMPERED
11. ALL WOOD BLOCKING TO BE FIRE-RET TREATED PLYWOOD
12. GC TO FIELD **VERIFY ALL EXISTING DIMENSIONS** & COLUMN LOCATIONS & **NOTIFY ARCHITECT** OF ANY DISCREPANCIES **PRIOR** TO CONSTRUCTION

BLOCKING NOTES

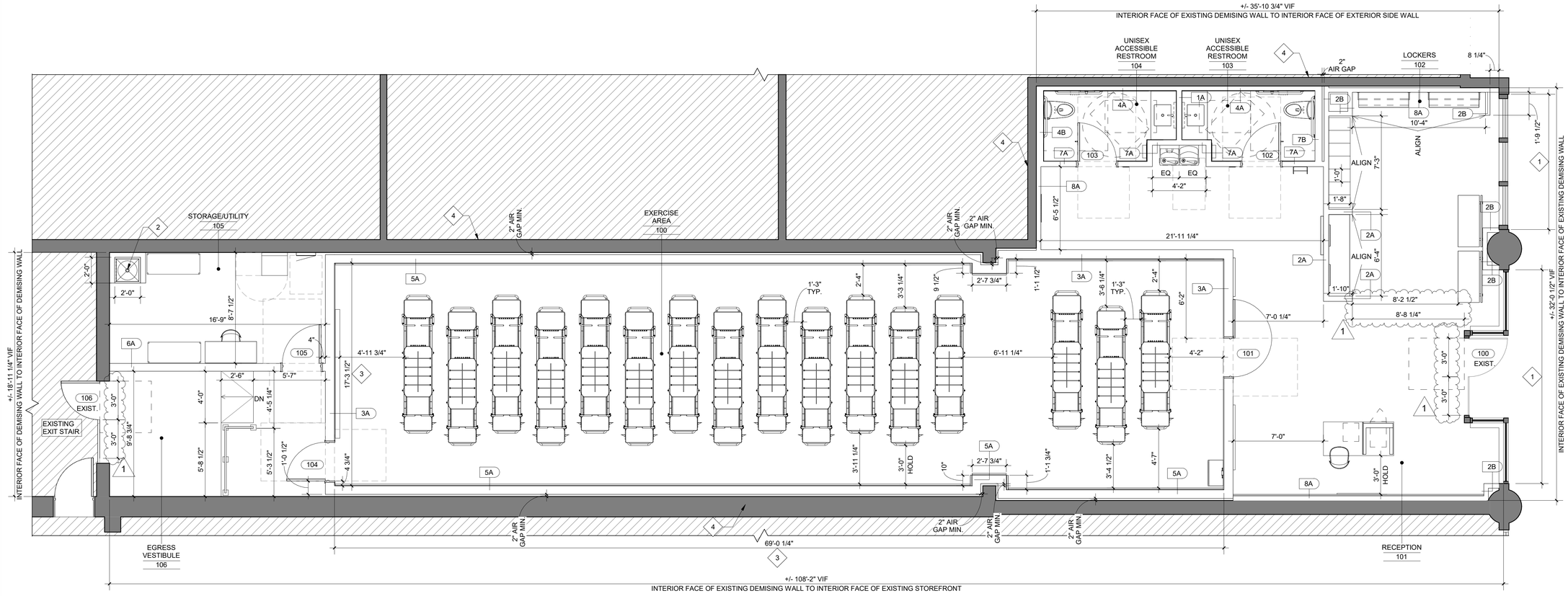
PROVIDE FTWD PLYWOOD BLOCKING (UON) AT THE FOLLOWING LOCATIONS:

1. ACCESSIBILITY REQUIREMENTS & GRAB BARS AT ALL RESTROOM LOCATIONS
2. RESTROOM ACCESSORIES INCLUDING TOILET STALL PARTITIONS & BABY CHANGING TABLES
3. MILLWORK LOCATIONS - TO BE 6" STRIPS
4. CASEWORK AS REQ'D BY MFR & FOR PROPER SUPPORT
5. 3 & 4 COMPARTMENT SINKS
6. MECHANICAL HOODS
7. MANAGER'S DESK SHELVES
8. LOCKERS
9. HANDRAILS

KEYNOTES

INDICATED BY ◇ SYMBOL

1 EXISTING EXTERIOR STOREFRONT TO REMAIN - TYPICAL. G.C. TO MAINTAIN THROUGH CONSTRUCTION.
2 WATER HEATER PLATFORM ABOVE.
3 CRITICAL DIMENSION - NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4 EXISTING DEMISING WALL TO REMAIN.



1 GROUND FLOOR DIMENSIONED PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

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SEAL

DISTRICT OF COLUMBIA · ERIC STYER · ARC102311 · LICENSED ARCHITECT

DATE OF SIGNATURE: 03-09-2026

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SHEET TITLE & NUMBER

GROUND FLOOR DIMENSIONED PLAN

A1-31

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LEGEND

- EXISTING PARTITIONS & EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- NEW PARTITIONS
- N.I.C.
- WATERPROOF MEMBRANE PROVIDE LATICRETE HYDRO BAN WATERPROOFING MEMBRANE BENEATH WALL FINISH AND ON FLOOR (FINISHWITH TILE PER SCHEDULE) — 1

KEYNOTES

INDICATED BY ◇ SYMBOL

1. WD1A (STACKED WOOD) PANELS TO BE CENTERED ON WALL. SEE A5-21 FOR PANEL SIZE. SEE DETAIL 6/A7-20 FOR MORE INFORMATION.
2. WD1B (STACKED WOOD) SEE DETAIL 7/A7-20 FOR MORE INFORMATION.
3. FINISH EXPOSED EDGE WITH UNEQUAL LEG ALUMINUM ANGLE BY EAGLE MOLDINGS OR SIMILAR. SEE INTERIOR ELEVATIONS & SPEC ON THIS SHEET.
4. SEE 8/A7-20 FOR MIRROR TRANSITION DETAIL.
5. PRIOR TO INSTALLATION OF FLOOR TILES, G.C. TO INSTALL A 30 MIL POLYETHYLENE CLEVAGE MEMBRANE (EQUAL TO NOBLESEAL TS) IN THE RESTROOM. MEMBRANE MUST BE EXTENDED UP THE WALL A MINIMUM OF 4" OR EQUAL TO THE HEIGHT OF THE FLOOR BASE.

PLAN GENERAL NOTES

1. FINISHES TO BE THE SAME PRODUCTION RUN.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL FINISH INFORMATION.
3. FINISH LOCATIONS AND START/STOP POINTS TO BE REVIEWED WITH SOLIDCORE IN FIELD PRIOR TO INSTALLATION.
4. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
5. ROOMS TO HAVE BELOW FINISH DESIGNATION UNLESS OTHERWISE NOTED.
6. WALLS TO BE PAINTED P1 UNLESS OTHERWISE NOTED.
7. RESTROOM WALLS TO BE PAINTED P1 UNLESS NOTED OTHERWISE.
8. WALL BASE TO BE B1 OR B1 EXCEPT FOR PALLET WOOD AND TILE WALLS.
9. FLOOR TO BE SEALED CONCRETE WITH SLIP RESISTANT GRIT.

SEE FINISH MATERIAL SCHEDULE ON SHEET A9-10.

MIRROR TRIM SPECIFICATIONS
ALUMINUM ANGLE UNEQUAL LEG 9/16" X 1-3/4" X 1/16"

WATERPROOFING NOTE

WATERPROOF MEMBRANE TO BE APPLIED ON THE FLOOR AND RETURN UP WALL AT 60" AFF — 1

UNISEX ACCESSIBLE RESTROOM 104

WALL	P1	5'-0" TO CLG
WALL	WT1	FLR TO 5'-0"
BASE	WT1	
FLOOR	FT-1	

UNISEX ACCESSIBLE RESTROOM 103

WALL	P1	5'-0" TO CLG
WALL	WT1	FLR TO 5'-0"
BASE	WT1	
FLOOR	FT-1	

LOCKERS 102

BASE	B1
FLOOR	CON1

STORAGE/UTILITY 105

BASE	B1
FLOOR	CON1

EXERCISE AREA 100

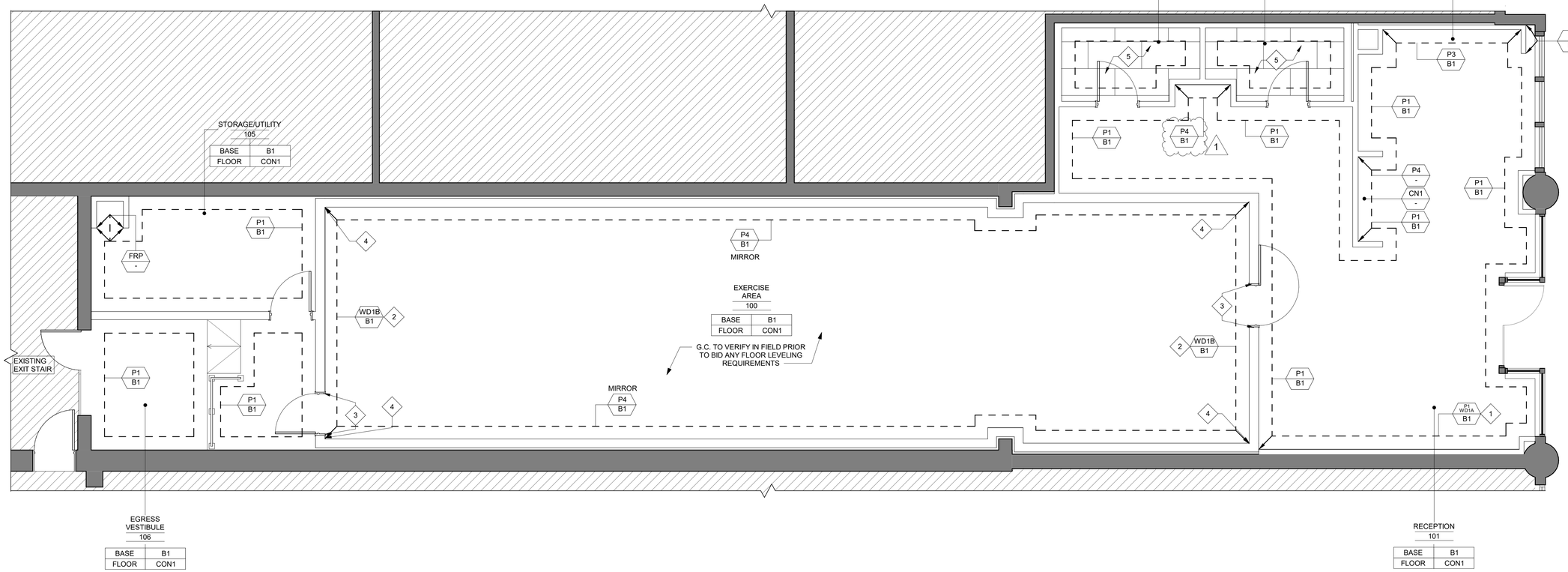
BASE	B1
FLOOR	CON1

EGRESS VESTIBULE 106

BASE	B1
FLOOR	CON1

RECEPTION 101

BASE	B1
FLOOR	CON1



1 GROUND FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

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ERIC STYER
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ARCHITECT

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GROUND FLOOR FINISH PLAN

A1-41

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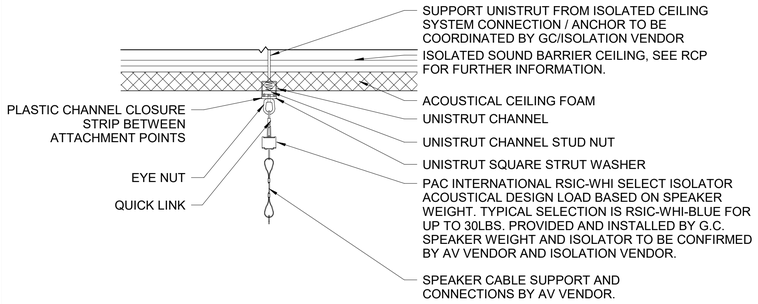
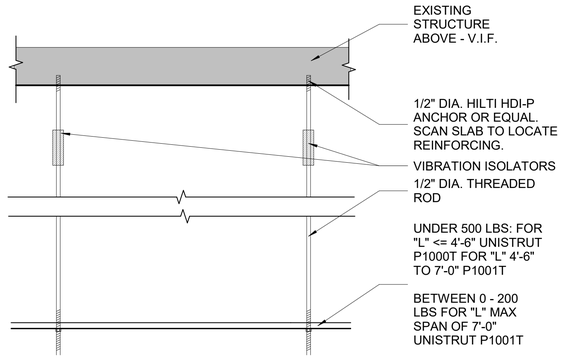


NOTES:
1. PROVIDED FOR ACOUSTICAL CONCEPT ONLY. ALL COMPONENTS MUST BE SELECTED TO ACCOMODATE LOADS

2. SEISMIC RESTRAINT TO BE INSTALLED AS REQUIRED BY LOCAL CODE. INSTALLED TO PROVIDE APPROPRIATE SLACK TO AVOID COMPROMISING THE INTENDED VIBRATION ISOLATION FROM THE STRUCTURE.

PARTS USED IN DRAWING (TO BE VERIFIED BY THE APPROPRIATE PARTY FOR EACH APPLICATION):
1. 1 5/8" UNISTRUT
2. P2378 CHANNEL NUT WITH 1/4" STUD
3. MCMASTER-CARR 3274T71 STEEL OVAL EYE NUT
4. MCMASTER-CARR 3271T32 OVAL SHAPED THREADED CONNECTING RING
5. PAC INTERNATIONAL RSIC-WHI-BLUE

2 ISOLATED SPEAKER DETAIL
SCALE: 1/2" = 1'-0"



SUPPORT NOTES

1.PROVIDE TWO SUPPORTS MINIMUM BUT PROVIDE NUMBER OF SUPPORTS REQUIRED BY THE EQUIPMENT SUPPLIER.

3 SUSPENDED EQUIPMENT DETAIL
SCALE: 1 1/2" = 1'-0"

LEGEND

- NEW PARTITIONS
- EXISTING PARTITIONS & EXTERIOR WALLS
- EXISTING WALL WITH NEW FURRING
- N.I.C.

LIGHTING MOUNTING HEIGHT SCHEDULE

THE FOLLOWING FIXTURES ARE MOUNTED AT THESE TYPICAL HEIGHTS TO CENTER OF JUNCTION BOX UNLESS OTHERWISE NOTED.

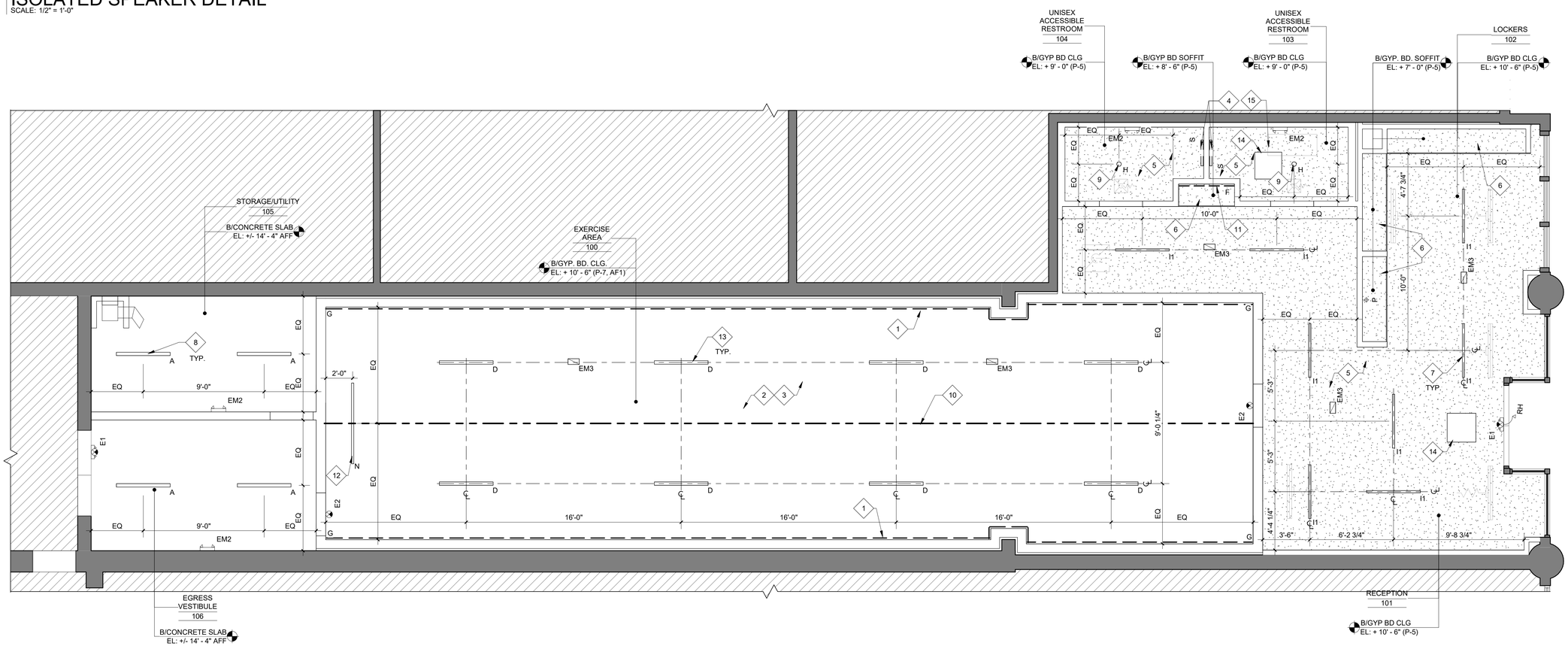
LOUNGE/ENTRY FIXTURES	RECESSED IN CEILING
PASSAGE FIXTURES	RECESSED IN CEILING
STORAGE FIXTURES	120" AFF TO B/FIXTURE
EXERCISE AREA PENDENTS	SURFACE MOUNTED IN CEILING

CONFIRM WITH OWNER - TYPICAL

SEE SHEET A9-20 FOR LIGHTING FIXTURE SCHEDULE

KEYNOTES
INDICATED BY ◇ SYMBOL

1 G.C. TO PROVIDE BLUE LED LIGHTS MOUNTED ABOVE & BELOW MIRROR - SEE DETAIL 1/A7-20. WHERE LED TAPE RUN IS INTERRUPTED BY DOOR OPENING, LED TAPE LIGHTS TO CONTINUE ABOVE MIRROR AND TERMINATE AT ALUMINUM ANGLE(S) AT BOTTOM OF MIRROR.
2 ACOUSTIC CEILING FOAM TILES(AF1) TO BE APPLIED TO CEILING THROUGHOUT STUDIO. PROVIDED AND INSTALLED BY G.C. SEE FINISH SCHEDULE A9-10 FOR MORE INFORMATION.
3 ISOLATED CEILING CONSTRUCTION AT EXERCISE AREA: 2 LAYERS 5/8" TYPE X GYP. BOARD DRYWALL FURRING CHANNEL, 6" BATT INSULATION, ACOUSTIC CEILING FOAM TILES(AF1) ON CEILING SHALL BE SUPPORTED BY THE STRUCTURE ABOVE SPRING ISOLATORS. VENDOR TO DESIGN AND ENGINEER SYSTEM. PROVIDE SHOP DRAWINGS FOR APPROVAL. FINISHED CEILING TO BE SUSPENDED GYP. BOARD. ALL DUCTWORK TO BE BELOW ISOLATED CEILING.
4 G.C. TO PROVIDE WALL MOUNTED LIGHTED MIRROR - SEE DETAIL 2/A7-20.
5 SUSPENDED GYP. BD CEILING ,- FRAMEALL DRYWALL GRID SYSTEM BY ARMSTRONG OR EQUIVALENT.
6 SUSPENDED GYP.BD. SOFFIT SYSTEM - SIMPLE SOFFIT BY ARMSTRONG OR EQUIVALENT.
7 RECESSED LED LIGHT - FIXTURES TO ALIGN AS SHOWN. SEE ELECTRICAL DWGS AND LIGHTING SCHEDULE FOR MORE INFORMATION.
8 SUSPENDED LED LIGHT - SEE ELECTRICAL DWGS AND LIGHTING SCHEDULE FOR MORE INFORMATION.
9 RECESSED CAN LIGHT AT FINISHED CEILING - SEE ELECTRICAL DWGS FOR MORE INFORMATION.
10 CONCEPTUAL LINE OF SPEAKERS. INSTALL UNI-STRUT CHANNEL FACING DOWN, RUNNING DOWN THE ENTIRE LENGTH OF THE STUDIO. G.C. TO COORDINATE AV + SECURITY INSTALLATION - WIRED PRIOR TO CLOSING CEILING LID. G.C. TO COORDINATE ISOLATOR LOCATIONS WITH SPEAKER LOCATIONS IN AV DRAWINGS. G.C. TO COORDINATE WITH FIRE SPRINKLER LAYOUT SO SPRINKLER RUN IS NOT DIRECTLY CENTERED WHERE UNI-STRUT IS TO BE INSTALLED IF APPLICABLE. SEE DETAIL 2/A2-11.
11 GC TO PROVIDE WHITE LED LIGHTS MOUNTED BEHIND THE CABINETRY ABOVE THE DRINKING FOUNTAIN.
12 RECESSED LED LIGHT IN THE STUDIO - CENTERED ABOVE LOGO SIGN, 2'-0" O.C. FROM INTERIOR FACE OF FINISHED WALL. SEE ELECTRICAL DWGS AND LIGHTING SCHEDULE FOR MORE INFORMATION.
13 SURFACE MOUNTED LED LIGHTS IN THE STUDIO - ENSURE B/FIXTURE ALIGNS WITH OR IS BELOW B/FOAM. SEE ELECTRICAL DWGS AND LIGHTING SCHEDULE FOR MORE INFORMATION.
14 G.C. TO PROVIDE AND INSTALL 24"X24" ACCESS PANEL. KARP INC. KDWP24S24S OR SIMILAR.
15 MECHANICAL UNITS - SEE DETAIL 3/A2-11. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 GROUND FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

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GROUND FLOOR REFLECTED CEILING PLAN

A2-11

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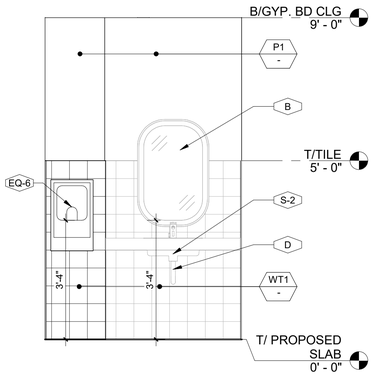
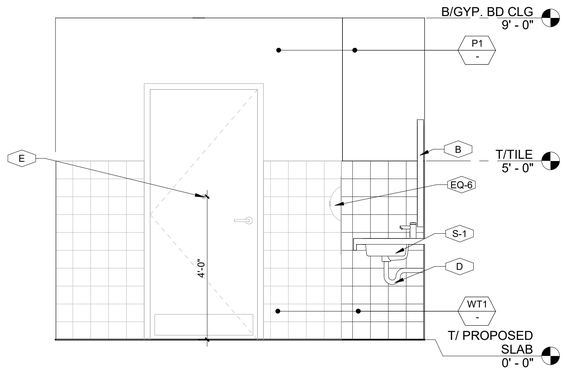
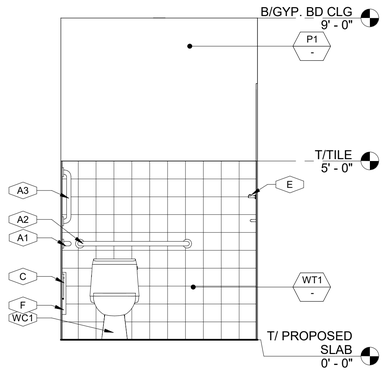


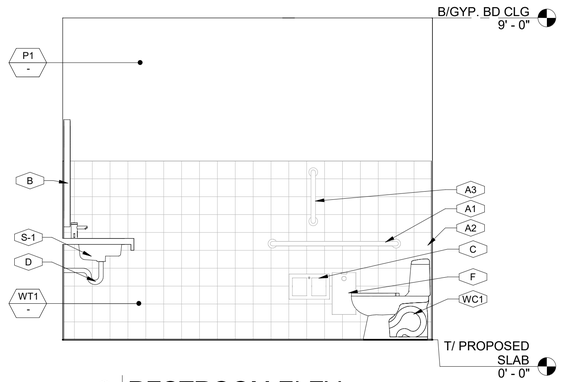
9 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



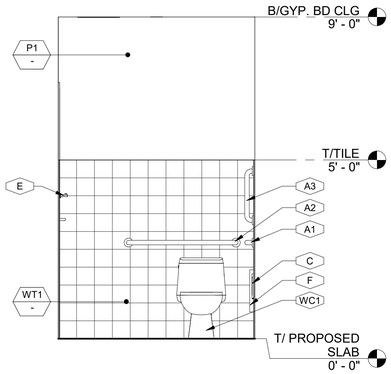
8 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



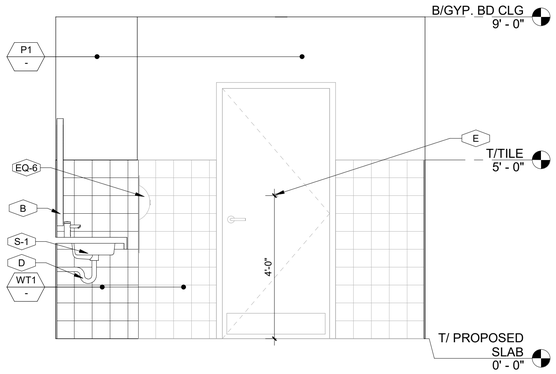
7 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



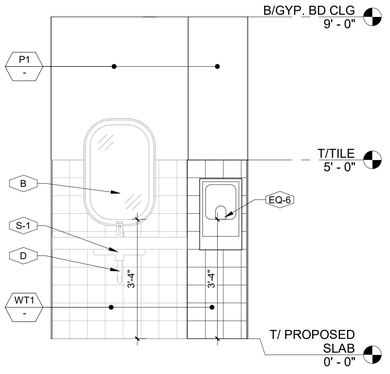
6 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



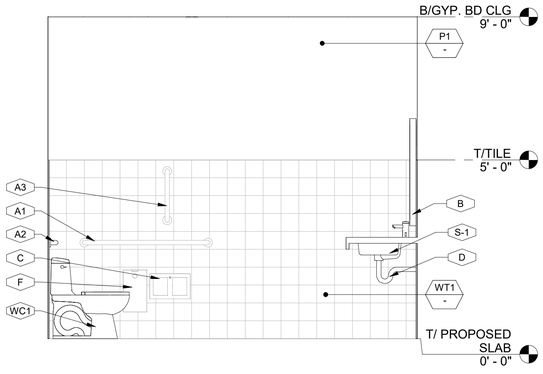
5 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



4 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"



3 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"

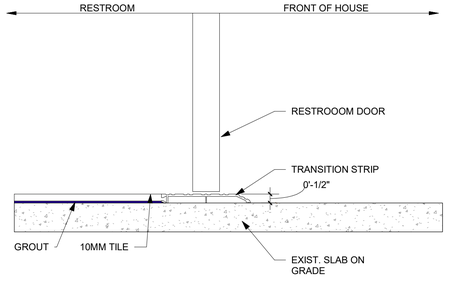


2 RESTROOM ELEV.
SCALE: 1/2" = 1'-0"

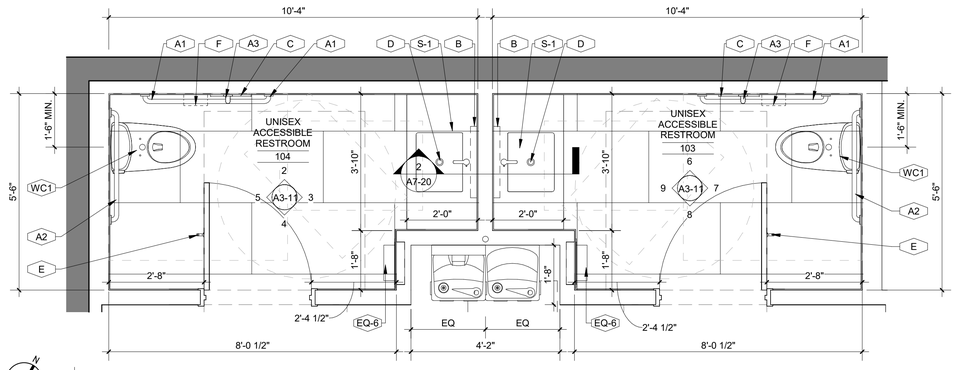
SYMBOL LEGEND	
X	BATHROOM FIXTURES & ACCESSORIES SEE FIXTURE & ACCESSORY SCHEDULE ON SHEET A9-10
PT# B#	FINISH TAG SEE FINISH SCHEDULE ON SHEET A9-10

NOTE
VERIFY FINISHES AND ACCESSORY LOCATIONS WITH OWNER.
PROVIDE BLOCKING IN WALL WHERE NECESSARY.

EQUIPMENT SCHEDULE (INDICATED BY SYMBOL)	
TAG	DESCRIPTION
A1	42" GRAB BAR
A2	36" GRAB BAR
A3	18" GRAB BAR
B	MIRROR - SEE 2/A7-20
C	TOILET PAPER DISPENSER (BY OWNER)
D	LAVATORY PIPE INSULATION
E	COAT HOOK - 48" AFF
F	SANITARY NAPKIN DISPENSER
S1	LAVATORY
WC1	WATER CLOSET
6	HAND DRYER (RECESSED)



10 TRANSITION DETAIL
NTS



1 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"

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PROJECT TEAM

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[solidcore]
UNION MARKET

1326 5TH STREET
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20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA
ERIC STYER
ARC102311
LICENSED
ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

ENLARGED
RESTROOM PLAN

A3-11

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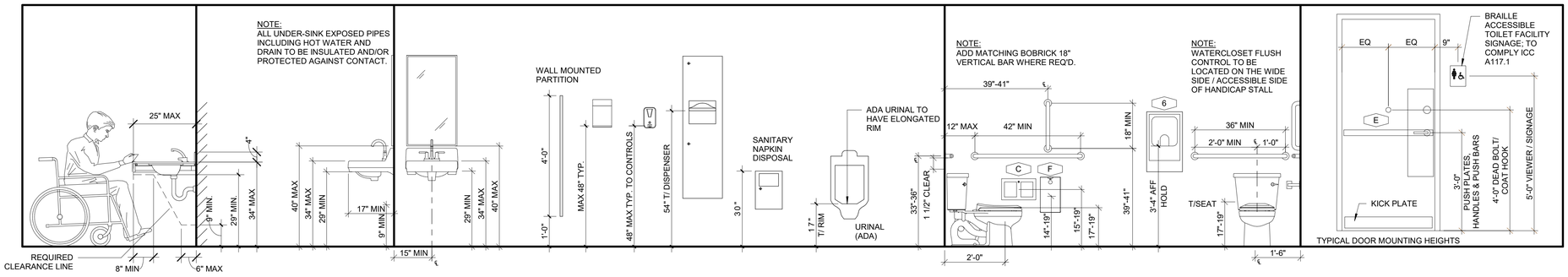
ADA MOUNTING HEIGHTS



RESTROOM NOTES:

1. ALL SIGNAGE IN SPACE TO CONFORM TO ALL FEDERAL, STATE AND LOCAL ACCESSIBILITY CODES.
2. ALL PLUMBING FIXTURES TO MEET ACCESSIBILITY GUIDELINES UNDER THE CODE. SINKS TO BE MOUNTED A MAX 34" ABOVE THE FLOOR (29" MIN), HAVE A KNEE CLEARANCE OF 6". WATER CLOSETS TO HAVE A SEAT HEIGHT OF 17"-19" FROM FLOOR. VERIFY W/ MANUFACTURER PRIOR TO INSTALLATION. SEE DRAWINGS FOR FIXTURE LOCATIONS, REFER TO PLUMBING DRAWINGS.
3. ALL RESTROOM ACCESSORIES TO MEET ACCESSIBILITY GUIDELINES UNDER THE CODE. VERIFY W/ MANUFACTURER PRIOR TO INSTALLATION. MOUNT WHERE LOCATED ON DRAWINGS.
4. ALL GRAB BARS SHALL BE SECURELY ATTACHED TO THE WALL, PROVIDE SOLID BLOCKING AT ALL LOCATIONS (SEE DETAIL). INSTALL PER MANUFACTURER RECOMMENDATIONS. GRAB BARS SHOULD NOT ROTATE IN THEIR FITTINGS, BE BETWEEN 1 1/4" TO 1 1/2" IN DIAMETER, AND BE 1 1/2" FROM THE WALL SURFACE. MOUNT GRAB BARS WHERE SHOWN ON DRAWINGS.
5. DIMENSIONS OF ACCESSIBLE RESTROOMS SHOWN ON DRAWINGS ARE THE MINIMUM TO MEET ACCESSIBILITY STANDARDS.
6. PLUMBING PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR CONFIGURED SO AS TO PROTECT AGAINST CONTACT BY USER.
7. SINK FAUCETS SHALL BE OF THE LEVER OPERATED, PUSH TYPE, TOUCH TYPE, OR ELECTRONICALLY OPERATED. REFER TO PLUMBING PLANS.
8. FLOORS SHALL CONSIST OF SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS A MINIMUM OF 6" UP WALL SURFACES.
9. REFER TO DOOR SCHEDULE FOR INFORMATION ON DOOR AND DOOR HARDWARE.
10. PROVIDE DOOR SIGNAGE AT EACH RESTROOM AS SHOWN BELOW. MOUNT SIGNAGE ON WALL WHICH THE LATCH SIDE OF THE DOOR IS LOCATED AND 60" A.F.F. TO THE CENTERLINE OF THE SIGN - SEE ELEVATIONS AND DETAIL THIS PAGE.
11. UNLESS NOTED OTHERWISE, CONTRACTOR TO FURNISH AND INSTALL ALL PLUMBING FIXTURES.
12. CONTRACTOR TO SUBMIT CUT SHEETS TO ARCHITECT FOR REVIEW & APPROVAL OF ALL RESTROOM FURNITURE/FIXTURES/EQUIPMENT PRIOR TO FABRICATION/PURCHASING.

3 TYPICAL MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

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RESTROOM DETAILS

A3-21

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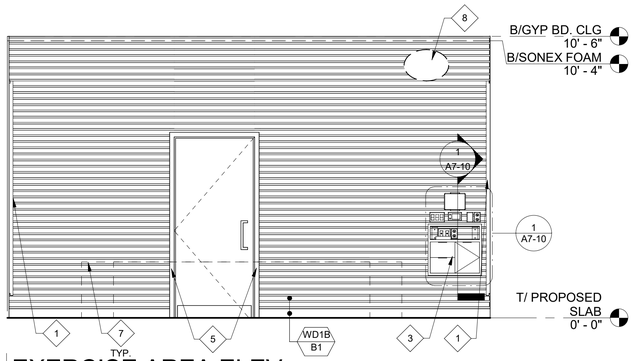
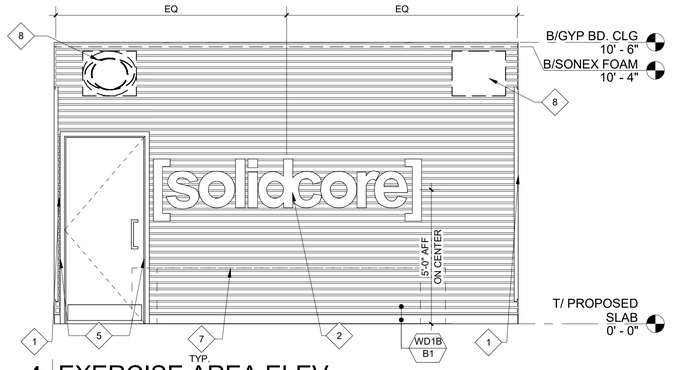
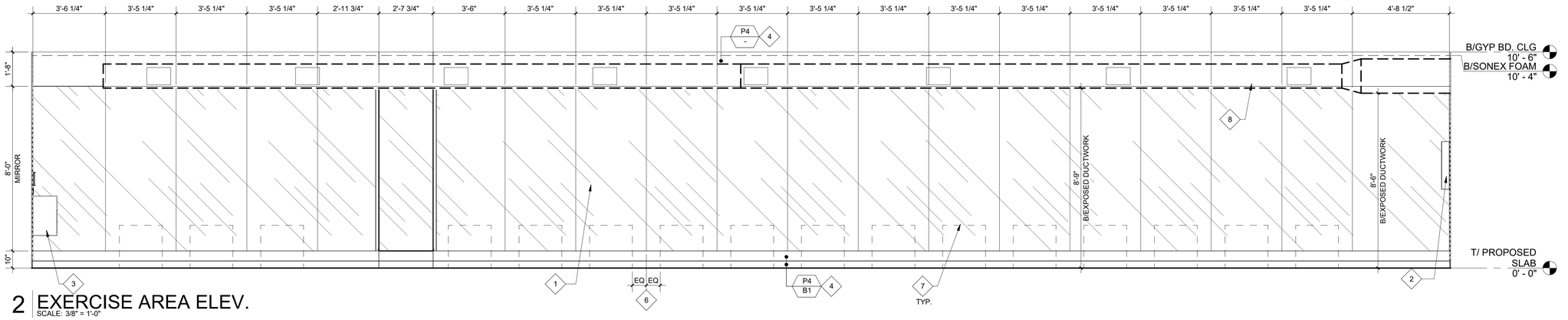


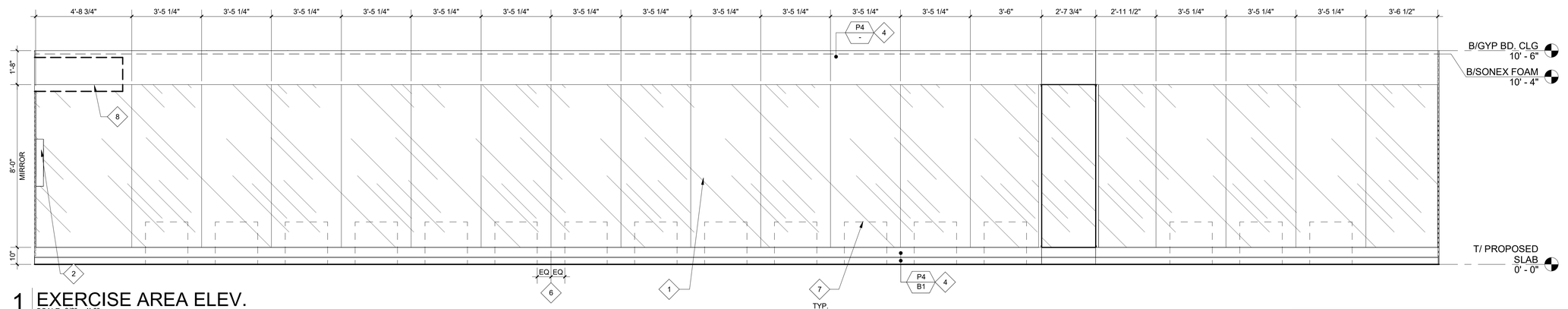
3 EXERCISE AREA ELEV.
SCALE: 3/8" = 1'-0"



4 EXERCISE AREA ELEV.
SCALE: 3/8" = 1'-0"



2 EXERCISE AREA ELEV.
SCALE: 3/8" = 1'-0"



1 EXERCISE AREA ELEV.
SCALE: 3/8" = 1'-0"

KEYNOTES

INDICATED BY ◇ SYMBOL

1. 8'-0" HIGH MIRROR (TYPICAL), U.N.O. - PROVIDED AND INSTALLED BY G.C. G.C. TO PROVIDE ALL MATERIALS REQUIRED FOR INSTALLATION AND VERIFY WIDTH. PROVIDE 1/16" GAP BETWEEN ALL MIRROR PANELS - TYPICAL. MOUNT BOTTOM OF MIRRORS 10" ABOVE FINISHED FLOOR - SEE DETAIL 1/A7-20.
2. SOLIDCORE LOGO SIGN - PROVIDED AND INSTALLED BY TENANT SIGNAGE VENDOR. CENTER ON WALL AS INDICATED. G.C. TO PROVIDE 2X FRT BLOCKING INSIDE WALL AND SUSPENSION AS REQUIRED TO SUPPORT STEEL SIGNAGE. G.C. TO COORDINATE HEIGHT AND LOCATIONS WITH TENANT.
3. COACH'S CABINET AND SHELF - SEE DETAIL 1 & 2/A7-10.
4. PAINT P4 ABOVE AND BELOW MIRRORS - TYPICAL. SEE FINISH MATERIALS SCHEDULE AND FINISH PLAN.
5. G.C. TO FINISH EXPOSED EDGE WITH UNEQUAL LEG ALUMINUM ANGLE BY EAGLE MOULDINGS. OR SIMILAR. SEE SPEC ON SHEET A1-41.
6. MIRRORS TO BE MOUNTED TO ENSURE SEAM IS SPACED BETWEEN FITNESS EQUIPMENT, NOT DIRECTLY IN FRONT OF EQUIPMENT.
7. OUTLINE OF MACHINES IN FOREGROUND, TYP.
8. EXPOSED DUCTWORK WITHIN STUDIO TO BE INSTALLED TIGHT TO CEILING, SEE MECHANICAL DRAWINGS FOR MORE INFO.

GENERAL NOTES

VERIFY ALL CEILING AND HEADER HEIGHTS ON REFLECTED CEILING PLAN ON SHEET A2-11.

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INTERIOR ELEVATIONS

A5-11

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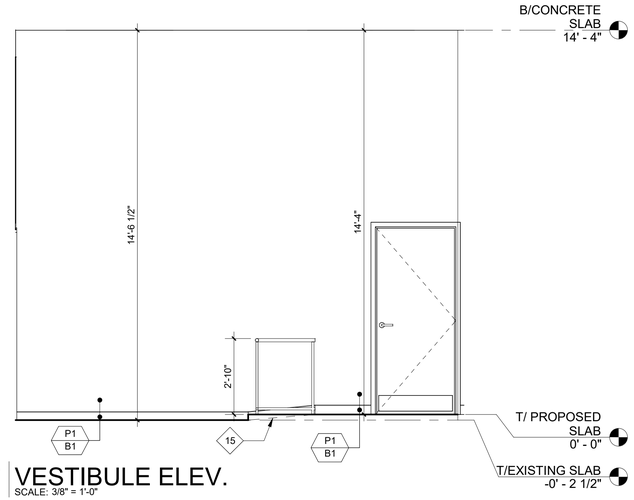
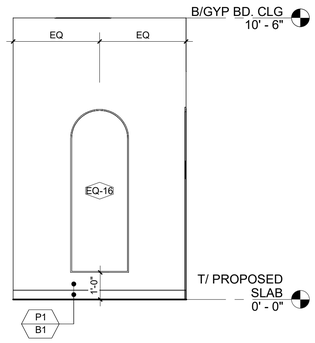
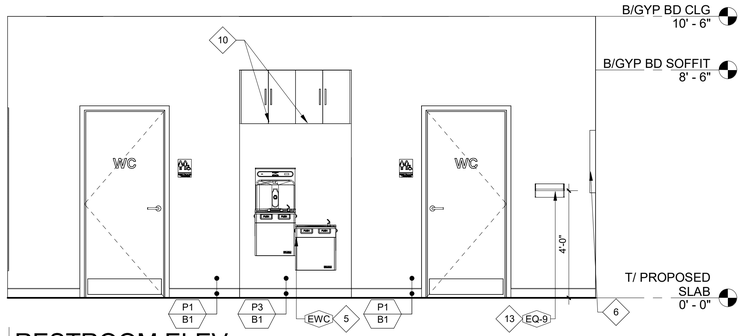


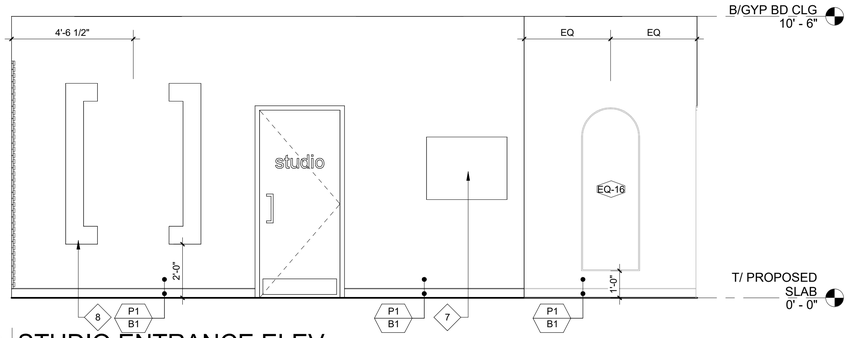
7 VESTIBULE ELEV.
SCALE: 3/8" = 1'-0"



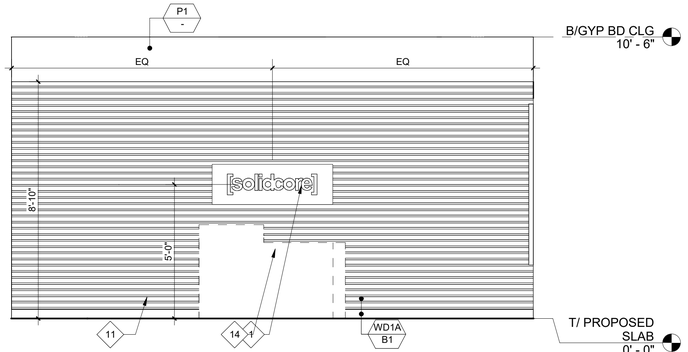
8 FULL HEIGHT MIRROR ELEV.
SCALE: 3/8" = 1'-0"



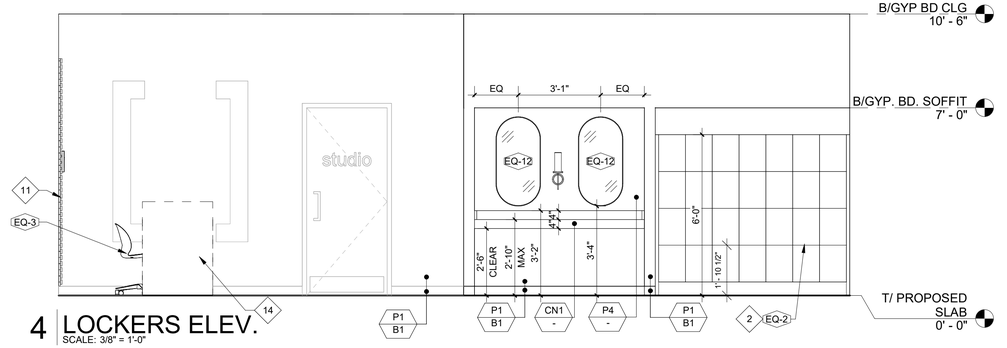
5 RESTROOM ELEV.
SCALE: 3/8" = 1'-0"



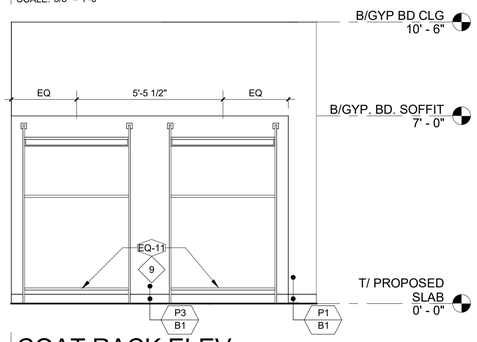
6 STUDIO ENTRANCE ELEV.
SCALE: 3/8" = 1'-0"



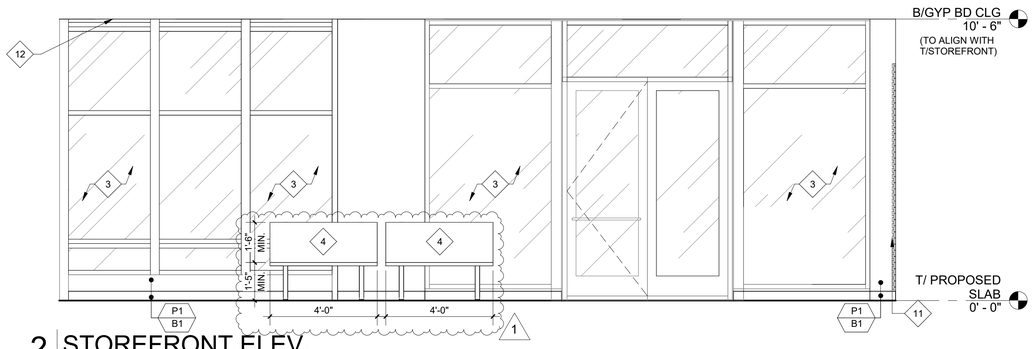
3 RECEPTION DESK ELEV.
SCALE: 3/8" = 1'-0"



4 LOCKERS ELEV.
SCALE: 3/8" = 1'-0"



1 COAT RACK ELEV.
SCALE: 3/8" = 1'-0"



2 STOREFRONT ELEV.
SCALE: 3/8" = 1'-0"

GENERAL NOTES

VERIFY ALL CEILING AND HEADER HEIGHTS ON REFLECTED CEILING PLAN ON SHEET A2-11.

KEYNOTES

INDICATED BY ◇ SYMBOL

1 [SOLIDCORE] SIGNAGE CENTERED ON WD1A WALL RECEPTION DESK.
2 LOCKERS PROVIDED BY SOLIDCORE, INSTALLED BY G.C. VERIFY SIZE, CONFIGURATION AND QUANTITY OF LOCKERS WITH SOLIDCORE.
3 EXISTING STOREFRONT TO REMAIN, TYP.
4 48" X 20" BENCH PROVIDED AND INSTALLED BY G.C. TOP OF BACK SUPPORT TO BE 18" MIN. ABOVE TOP OF BENCH SEAT. TOP OF BENCH SEAT SURFACE TO BE SLIP RESISTANT AND TO BE 17"-19" AFF. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (1112 N) IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE. GC TO PROVIDE BLOCKING AS REQUIRED.
5 ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILL FUNCTION
6 COACH BOARD, PROVIDED BY SOLIDCORE
7 CHALLENGE BOARD, PROVIDED BY SOLIDCORE
8 BRACKET SIGNAGE TO BE MOUNTED ON WALL.
9 COAT RACK TO BE MOUNTED ON THE WALL
10 STORAGE CABINETS ABOVE DRINKING FOUNTAIN FOR EMPLOYEE USE ONLY
11 WD1A PANELS TO BE MOUNTED ON PARTITION WALL AS SHOWN. G.C. TO CONFIRM MODULAR PANEL SIZE AND PLACEMENT WITH SOLIDCORE.
12 BOTTOM OF PROPOSED CEILING TO ALIGN WITH EXISTING HORIZONTAL MULLION.
13 SWEAT BAG DISPENSER
14 CUSTOM MILLWORK DESK PROVIDED BY SOLIDCORE. G.C. TO VERIFY LOCATION AND INSTALL - SEE SHEET A7-30 FOR MORE INFORMATION.
15 ACCESSIBLE RAMP. 1:12 SLOPE MAX.

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INTERIOR ELEVATIONS

A5-21

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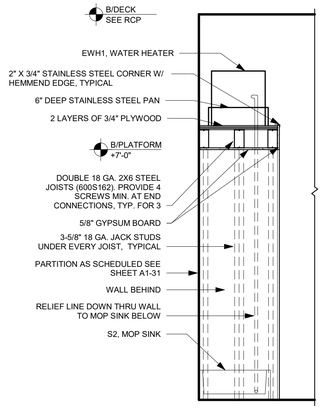
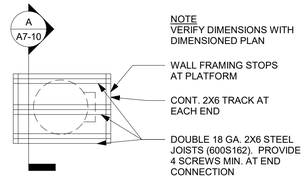
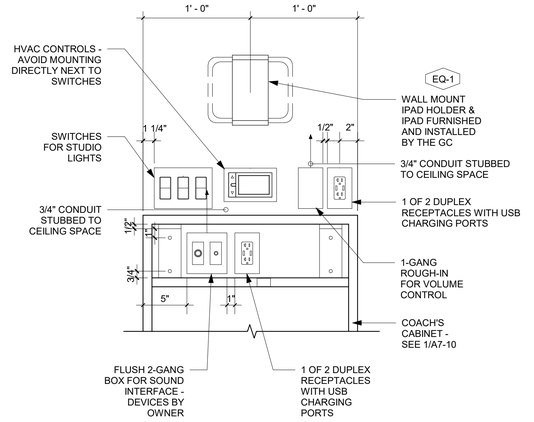


A. WATER HEATER PLATFORM FRAMING SECTION

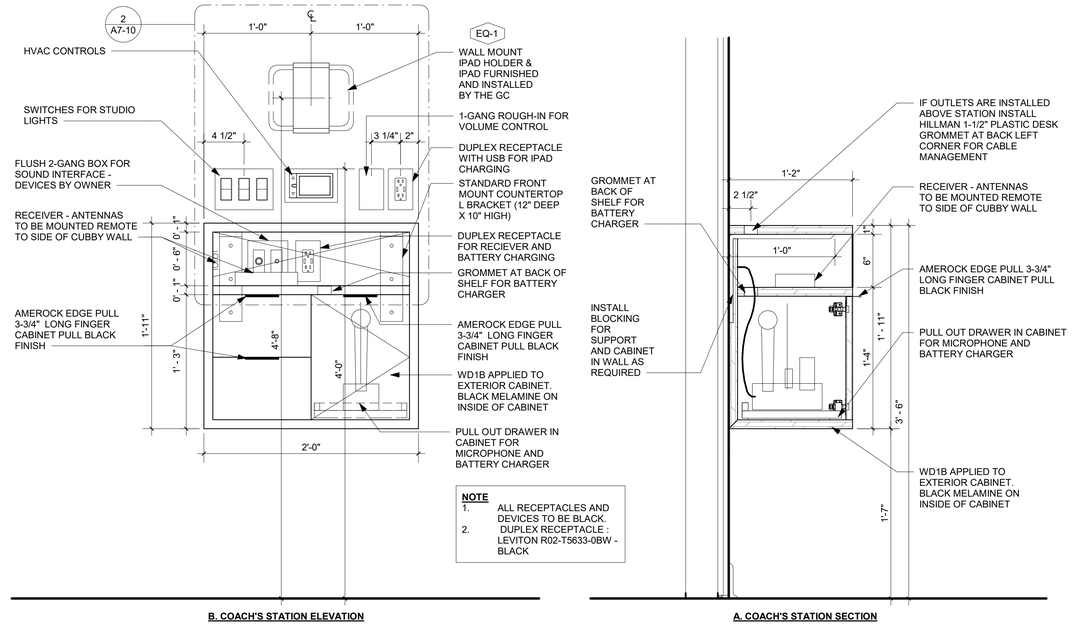


B. WATER HEATER PLATFORM FRAMING PLAN

3 WATER HEATER PLATFORM
SCALE: 1/2" = 1'-0"



2 CONTROLS AT COACH'S STATION
SCALE: 1 1/2" = 1'-0"



B. COACH'S STATION ELEVATION

A. COACH'S STATION SECTION

1 COACH'S STATION DETAIL
SCALE: 1 1/2" = 1'-0"

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A7-10

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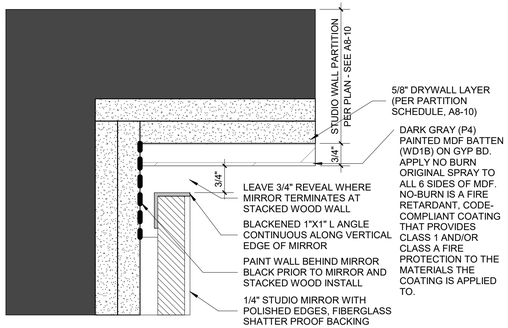
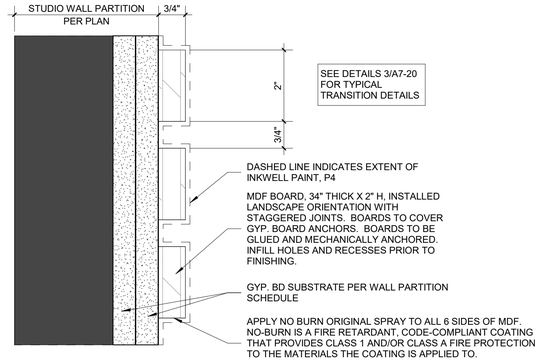
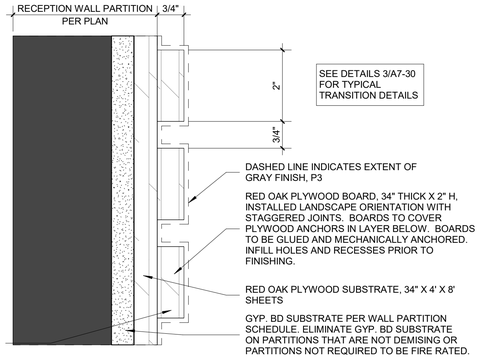


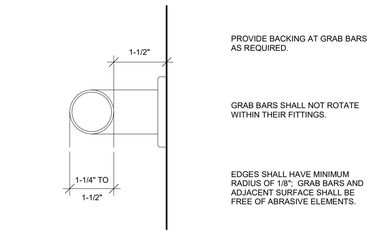
8 MIRROR / STACKED WD PLAN DTL.
SCALE: 6" = 1'-0"



7 STUDIO STACKED WOOD SECTION DTL. (WD1B)
SCALE: 6" = 1'-0"



6 RECEPTION STACKED WOOD SECTION DTL. (WD1A)
SCALE: 6" = 1'-0"



PROVIDE BACKING AT GRAB BARS AS REQUIRED.

GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

EDGES SHALL HAVE MINIMUM RADIUS OF 1/8". GRAB BARS AND ADJACENT SURFACE SHALL BE FREE OF ABRASIVE ELEMENTS.

THE STRUCTURAL STRENGTH OF GRAB BARS SHALL MEET THE FOLLOWING SPECIFICATIONS:

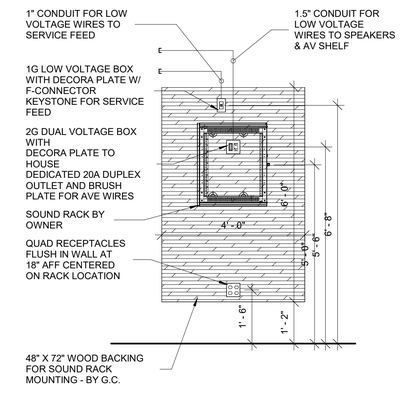
A. BENDING STRESS AND SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION OF A 250-POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

B. SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF A 250-POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

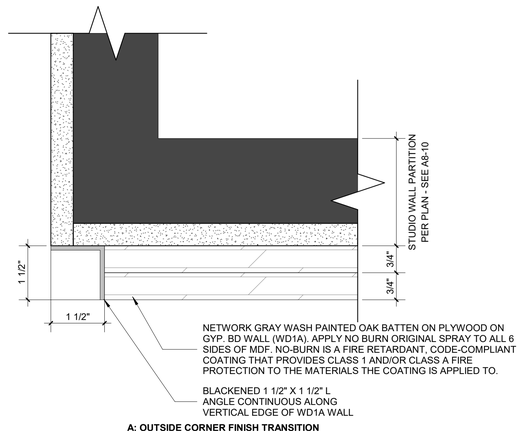
C. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250-POUND POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250-POUND POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN FASTENER AND SUPPORTING STRUCTURE.

5 TYPICAL GRAB BAR DTL
SCALE: 3" = 1'-0"

B: LINEAR FINISH TRANSITION

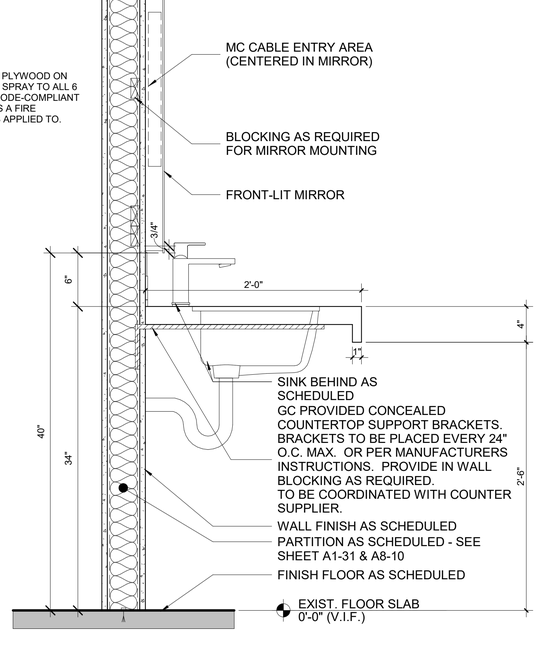


4 UTILITY ROOM SOUND RACK
SCALE: 1/2" = 1'-0"

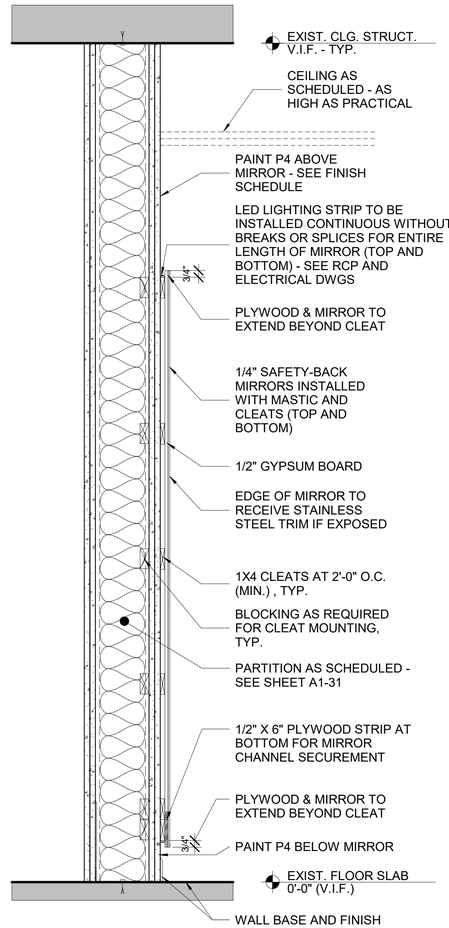


A: OUTSIDE CORNER FINISH TRANSITION

3 STACKED WOOD TRANSITION DTLS
SCALE: 6" = 1'-0"



2 TOILET ROOM MIRROR
SCALE: 1 1/2" = 1'-0"



1 STUDIO MIRROR
SCALE: 1 1/2" = 1'-0"

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PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA · ERIC STYER · ARC102311 · LICENSED · ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

DETAILS

A7-20

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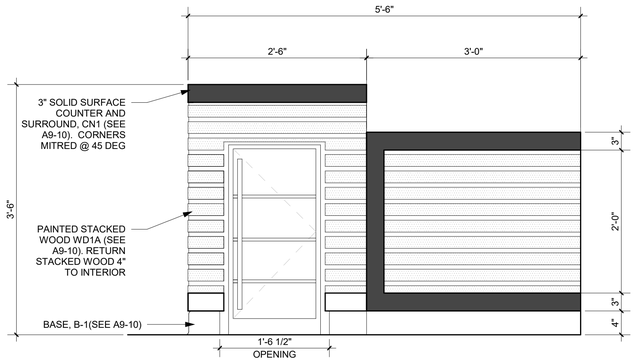
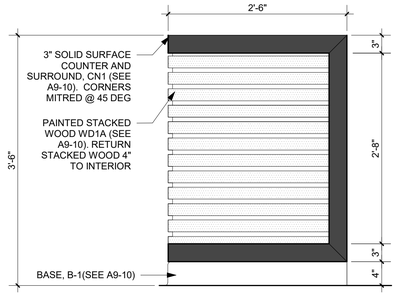
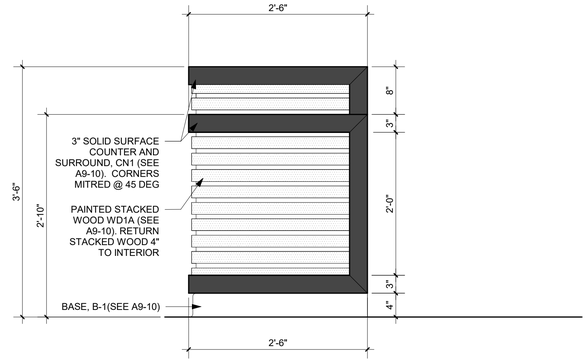


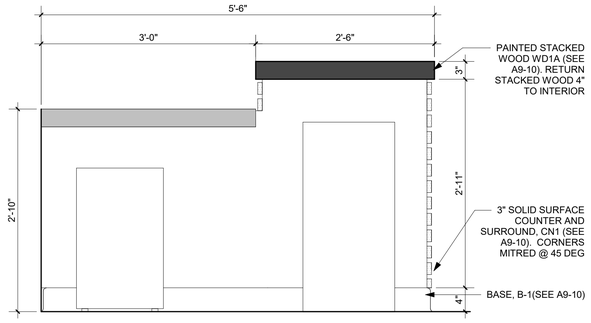
9 RECEPTION DESK STANDING ELEV 9
SCALE: 1" = 1'-0"



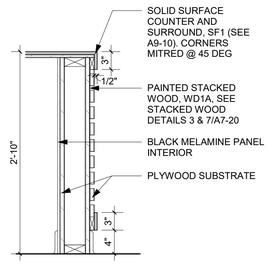
8 RECEPTION DESK STANDING ELEV 8
SCALE: 1" = 1'-0"



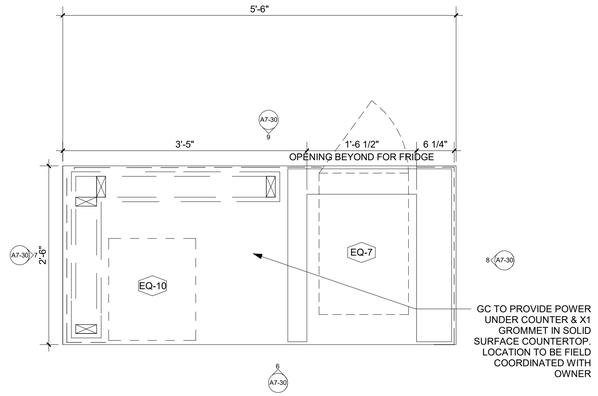
7 RECEPTION DESK STANDING ELEV 7
SCALE: 1" = 1'-0"



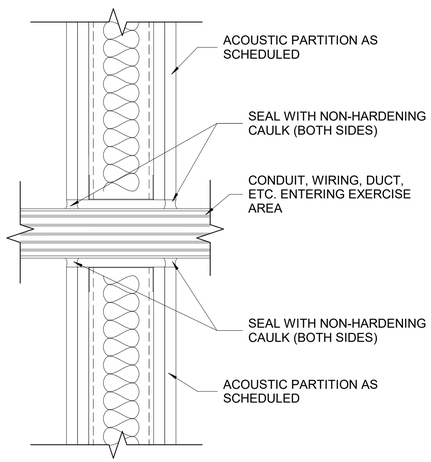
6 RECEPTION DESK STANDING ELEV 6
SCALE: 1" = 1'-0"



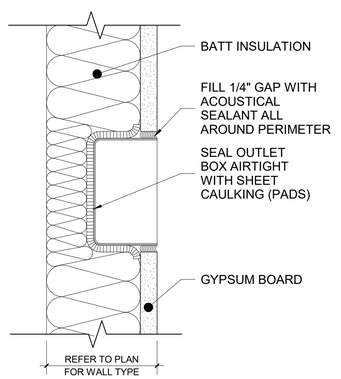
5 DESK SECTION DETAIL
SCALE: 1" = 1'-0"



4 RECEPTION DESK STANDING ENLARGED PLAN
SCALE: 1" = 1'-0"



3 ACOUSTIC PENETRATION DTL
SCALE: 3" = 1'-0"



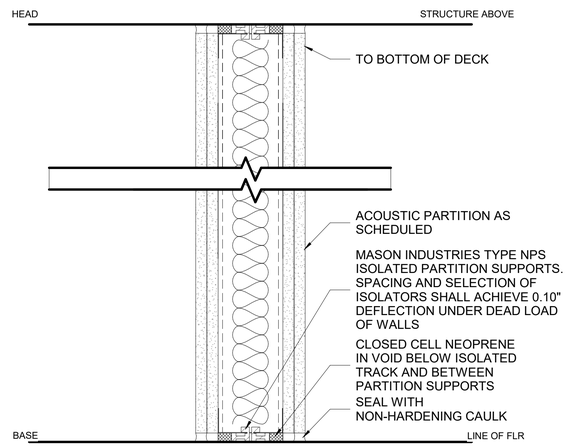
1. SEPARATE OUTLETS ON OPPOSITE SIDES OF THE WALL BY 16" MINIMUM
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES.

PADS MANUFACTURED AND DISTRIBUTED BY:
LOWRY'S, INC.
23030 KIDDER STREET
HAYWARD, CA. 94545
252-2449; WWW.HALOWRY.COM

NOTE: WHERE FIRE-RATED PADS ARE REQUIRED, NELSON FSP FIRESTOP PUTTY PADS MAY BE USED; MANUFACTURED BY:

NELSON FIRESTOP PRODUCTS
4135 SOUTH 100TH EAST AVENUE -
SUITE 100
TULSA, OK. 74146
(800) 331-7325;
WWW.NELSONFIRESTOP.COM

2 JUNCTION BOX ISO. SOUND-RATED CONSTR.
NTS



1 ISOLATED PARTITION DETAIL
SCALE: 3" = 1'-0"

MUNICIPAL APPROVAL STAMP

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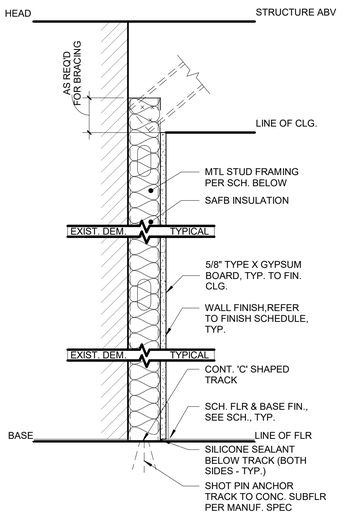
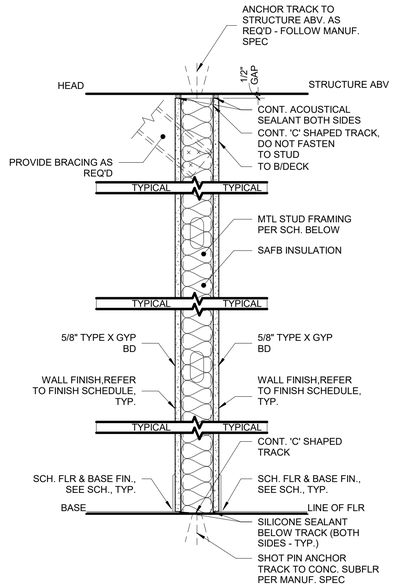


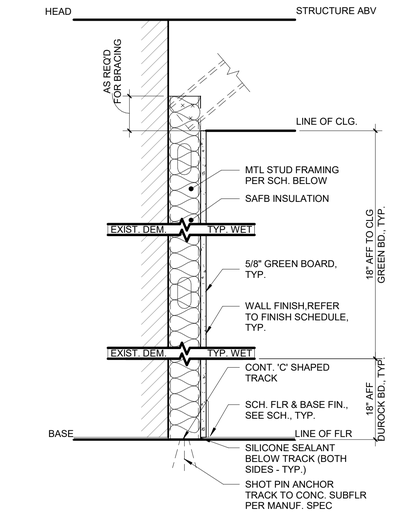
PARTITION: 8 (EXIST. DEM. - TYPICAL)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 1/4"	



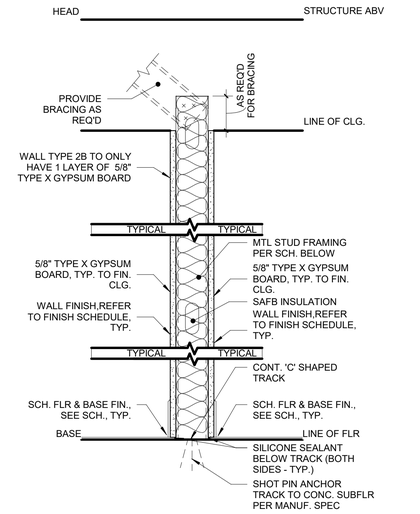
PARTITION: 6 (TYPICAL - TYPICAL)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	6"	16" O.C.	N/A	5 1/2"	20	0' - 7 1/4"	



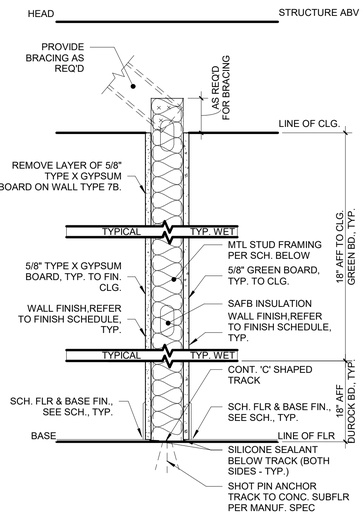
PARTITION: 4 (EXIST. DEM. - TYP. WET)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 1/4"	
B	6"	16" O.C.	N/A	5 1/2"	20	0' - 6 5/8"	



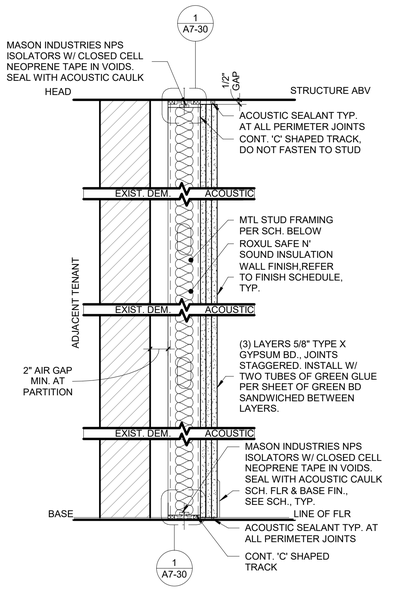
PARTITION: 2 (TYPICAL - TYPICAL)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 7/8"	
B	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 1/4"	



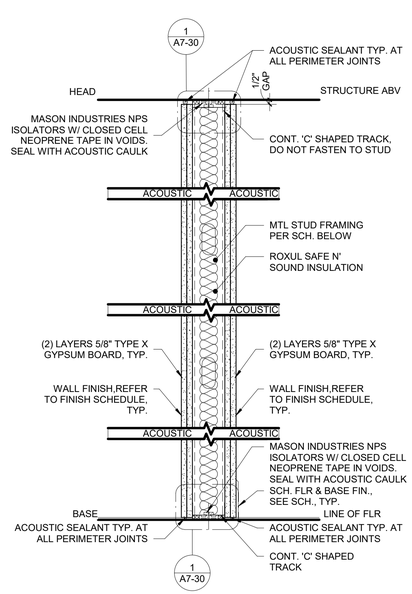
PARTITION: 7 (TYPICAL - TYPICAL WET)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 7/8"	
B	6"	16" O.C.	N/A	5 1/2"	20	0' - 6 5/8"	



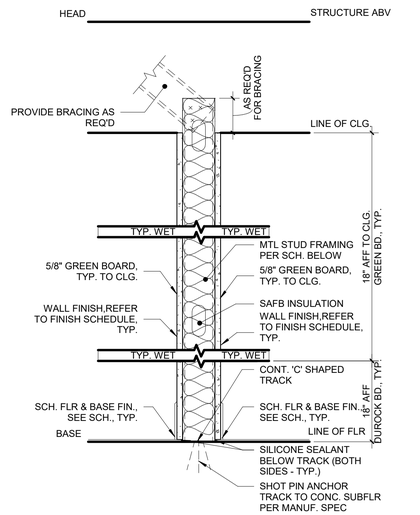
PARTITION: 5 (EXIST. DEM. - ACOUSTIC)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	6"	16" O.C.	N/A	5 1/2"	20	0' - 7 7/8"	



PARTITION: 3 (ACOUSTIC - ACOUSTIC)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	6"	16" O.C.	N/A	5' 1/2"	20	0' - 8 1/2"	



PARTITION: 1 (TYPICAL WET - TYPICAL WET)

TYPE	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION THICKNESS	STUD GAUGE	WALL THICKNESS	COMMENTS
A	3 5/8"	16" O.C.	N/A	3 1/2"	20	0' - 4 7/8"	

GENERAL WALL NOTES

1. PARTITIONS ARE INDICATED ON FLOOR PLANS BY GRAPHIC DESIGNATION AND/OR TYPE SYMBOL - REFER TO PARTITION LEGEND.
2. LINE OF STRUCTURE INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY - VERIFY EXISTING CONDITIONS IN FIELD.
3. DO NOT FASTEN PARTITION STUDS AND GYPSUM BOARD TO METAL CEILING RUNNER, TO ALLOW FOR STRUCTURAL DEFLECTION.
4. PROVIDE BRACING WHERE PARTITION HEIGHT EXCEEDS MANUFACTURER'S ALLOWABLE HEIGHT. DO NOT BRACE TO DUCTWORK OR OTHER SUCH COMPONENTS VERIFY ALLOWABLE HEIGHT PSF REQUIREMENTS WITH LOCAL CODE AUTHORITIES.
5. THE FIRE RATINGS AND STC RATINGS NOTED FOR THE GYPSUM BOARD PARTITION ASSEMBLIES SHOWN ARE COPIED AND TRANSCRIBED HERE FOR CONVENIENCE ONLY FROM THE UNDERWRITERS LABORATORY DIRECTORY AND THE UNITED STATES GYPSUM CATALOG.
6. WALL ASSEMBLIES AND PARTITIONS THAT RECEIVE FIRE RESISTIVE RATINGS SHALL BE CONSTRUCTED PER TESTED ASSEMBLIES, MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF ALL APPLICABLE CODES AND LOCAL GOVERNING AUTHORITIES.
7. PENETRATIONS OR PRODUCTS FOR USE IN SPECIFIC FIRE RATED PARTITION ASSEMBLIES SHALL BE BASED ON SUCCESSFUL PERFORMANCE IN FIRE TESTS. THESE PENETRATIONS MAY INCLUDE BUT ARE NOT LIMITED TO ITEMS SUCH AS PIPING, CONDUIT, OR HVAC DUCTWORK.
8. EACH PARTITION SHOWN ON THE DRAWINGS TO BE A FIRE AND/OR SMOKE RESISTANT PARTITION SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL, 8'-0" O.C.
9. FIRE AND/OR SMOKE RESISTANT RATINGS ARE TO CONTINUE ABOVE ALL OPENINGS IN RATED PARTITIONS.
10. ELECTRICAL RECEPTACLES SHALL NOT BE LOCATED IN FIRE RATED PARTITIONS IN EXCESS OF TWO HOURS.
11. THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES SHALL NOT EXCEED 16 SQ. IN. THE AGGREGATE SURFACE AREA OF BOXES SHALL NOT EXCEED 100 SQ. IN. PER 100 SQ. FT. OF WALL AREA. A HORIZONTAL DISTANCE OF 24 IN. SHALL SEPARATE BOXES LOCATED ON OPPOSITE SIDES OF PARTITIONS.
12. BOXES LOCATED IN CORRIDOR AND UNIT DEMISING PARTITIONS SHALL BE TREATED WITH ACOUSTICAL SEALANT AROUND PERIMETER AND BEHIND EACH BOX (FULL CLOSURE BED). IN ADDITION, OUTLET AND JUNCTION BOXES SHALL BE SEPARATED BY INSTALLING A METAL STUD BETWEEN THEM IN THE PARTITION.
13. COMPLETELY SEAL WITH CONTINUOUS ACOUSTICAL SEALANT ALL PARTITION HEADS, BASES, AND ENDS, PLUS SEAL ALL PENETRATIONS, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK.
14. SOUND ATTENUATION BLANKETS ARE TO BE INSTALLED IN ALL PARTITIONS SEPARATING PUBLIC FROM PRIVATE AREAS AND WHERE NOISE CAN BE TRANSMITTED (RESTROOMS) EXTEND BLANKETS FULL HEIGHT OF PARTITION UP TO BOTTOM OF STRUCTURE, INSTALLED IN TIGHT, COMPRESSION FIT TO STUDS, STRUCTURE AND ADJACENT SURFACES.
15. FINAL LOCATION AND PLACEMENT OF MEPFP ITEMS (BOTH HORIZONTAL AND VERTICAL) SHALL BE COORDINATED SUCH THAT THEY DO NOT TOUCH STUD PARTITION ASSEMBLIES AND CREATE AN ACOUSTICAL PROBLEM SUCH AS VIBRATION, IMPACT NOISE, ETC.
16. PROVIDE FIRE RETARDANT WOOD BLOCKING IN METAL STUD PARTITIONS AS REQUIRED FOR SUPPORT AND/OR INSTALLATION OF DOOR FRAMES, MOLDINGS, MILLWORK, WALL PANELS, HANDRAILS, GRAB BARS, AND/OR PARTITIONS WHICH CONTAIN PLUMBING FIXTURES (SUCH AS WET WALLS AND WALLS ADJACENT TO AND BEHIND PLUMBING FIXTURES) U.N.O.
17. USE GALVANIZED METAL CORNER BEADS AND EDGE TRIMS (OR SCREEDS AS REQUIRED) IN ALL EXPOSED WORK, POSITIVELY ATTACHED WITH FASTENERS.
18. TAPE AND APPLY JOINT COMPOUND TO ALL INTERIOR CORNERS AND MOVEMENT CONTROL JOINTS IN GYPSUM BOARD PARTITIONS U.N.O.
19. PROVIDE VERTICAL CONTROL JOINTS FOR ANY UNINTERRUPTED PARTITION LENGTH AT 30'-0" O.C. IN THE HORIZONTAL DIRECTION WHERE INDICATED OR AS REQUIRED. VERIFY LOCATIONS WITH ARCHITECT BEFORE INSTALLATION.
20. ALL PLUMBING, MECHANICAL AND ELECTRICAL WORK WITHIN PUBLIC SPACES IS TO BE CONCEALED BY PAINTED SUSPENDED GYPSUM BOARD SOFFITS AND CEILINGS, COORDINATE LOCATIONS WITH MEPFP DRAWINGS.
21. PROVIDE CONTINUOUS GYPSUM BOARD CANTS OF 75 DEGREES WITH 4" 20 GA GALVANIZED SHEET METAL STRAPS 4'-0" O.C. IN ELEVATOR SHAFTS MORE THAN 2".
22. ALL MASONRY PARTITIONS THAT EXTEND BETWEEN STRUCTURAL CONCRETE COLUMNS AND/OR SHEAR WALLS SHALL HAVE VERTICAL SEALANT JOINTS BETWEEN CONCRETE AND MASONRY.
23. ALL FIRESAFED MASONRY PARTITIONS SHALL HAVE CONTINUOUS FIRESAFING OF DENSITY AS SPECIFIED. PROVIDE CONTINUOUS JOINT FILLER AND ELASTOMERIC SEALANT AT THE TOP OF THE WALL AND UNDERSIDE OF STRUCTURE.
24. INTERSECTIONS OF MASONRY PARTITIONS SHALL BE CONSTRUCTED BY INTERLOCKING ALTERNATE COURSES OF MASONRY AND INSTALLING METAL TIES, RIGID ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT.
25. COORDINATE LOCATIONS OF ALL OPENINGS REQUIRED IN MASONRY PARTITIONS WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE AND REINFORCING SCHEDULE.
26. SEE FINISH PLAN FOR WATERPROOFING REQUIREMENTS
27. PROVIDE EXPANSION JOINTS AND/ OR CONTROL JOINTS PER MANUFACTURERS RECOMMENDATIONS, COORDINATE WITH ARCHITECT PRIOR TO INSTALL.
28. ANY HIGH OR LOW PENETRATION MUST BE SEALED SO THAT AIR AND SOUND CANNOT PASS THROUGH.
29. USE PUTTY PADS FOR ANY OUTLETS (ELECTRICAL AND LOW VOLTAGE).
30. ALL OTHER PENETRATIONS MUST BE SEALED USING GREENGLUE NOISE PROOFING SEALANT.
31. DOORS AND WINDOWS SHOULD MEET THE STC RATING OF THE WALLS IN WHICH THEY ARE LOCATED.

PER 602.2 TYPES I & II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NON-COMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THE CODE. COMBUSTIBLE MATERIALS TO MEET COMPLIANCE WITH IBC 603.1

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PARTITION SCHEDULE

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FINISH MATERIAL SCHEDULE

TAG	MATERIAL / FINISH DESCRIPTION	MANUFACTURER	FINISH / PATTERN	COLOR	LOCATION / REMARKS
AF1	PYRAMID ACOUSTIC FOAM	SONEX	SEE REMARKS	BLACK	24" x 24" x 2". FURNISHED AND INSTALLED BY GC. OWNER TO PROVIDE DIRECTION ON PLACEMENT
B1	WALL BASE	MANNINGTON COMMERCIAL	SCULPTURED WALL BASE, EDGE EFFECTS, SIMPLE- 4SM	701 BLACK	THROUGHOUT
CN1	COUNTER SURFACE	SILESTONE	ICONIC WHITE	WHITE	RESTROOM VANITY
FRP	FIBERGLASS REINF. PANEL	-	-	WHITE	AT MOPSINK
FT-1	FLOOR TILE	ADESSI	TOWER GRAY PORCELAIN TILE MATTE FINISH	GRAY	G.C. TO PROVIDE PEMPKO 255 SADDLE THRESHOLD – 5" WIDE X ½" HIGH TRANSITION STRIP AT THRESHOLD. SEE DETAIL 10/A3-11 FOR MORE INFORMATION.
P4	ACCENT PAINT	SHERWIN WILLIAMS	SW6992	INKWELL	EGGSHELL TYP.
P5	ACCENT PAINT	SHERWIN WILLIAMS	SW7005	PURE WHITE	FLAT
P7	ACCENT PAINT	SHERWIN WILLIAMS	SW6258	TRICORN BLACK	FLAT
WD1A	SLATWALL	CNC WOOD PATTERN	3/4" RED OAK PLYWOOD - CLEAR POLURETHANE WOOD FINISH	NETWORK GRAY WASH	PROVIDED AND INSTALLED BY G.C. - TO BE IN LOBBY. MIX NETWORK GRAY (P3) WITH EQUAL PARTS WATER TO CREATE WASH. APPLY NO-BURN SPRAY. SEE 6/A7-20 FOR ASSEMBLY DETAILS AND SECTION.
WD1B	SLATWALL	MDF CUT BATTENS	3/4" MDF	INKWELL	PROVIDED AND INSTALLED BY G.C. - TO BE IN STUDIO. PAINTED P4. APPLY NO-BURN SPRAY. SEE 7/A7-20 FOR ASSEMBLY DETAILS AND SECTION.
WT1	WALL TILE	GLENROCK DISTRIBUTING	FES COLLI, ARGENTO 5"X5" STACKED BOND CONFIGURATION WITH CONTINUOUS GROUT LINES	ARGENTO (GREY)	PROVIDED & INSTALLED BY G.C. GROUT: 60 CHARCOAL. TILE TOP AND OUTSIDE EDGES TO BE SCHLUTER JOLLY EDGE 3/8IN. BRIGHT BLACK ALUMINUM #A100GS

EQUIPMENT SCHEDULE

INDICATED BY ⬡ SYMBOL

TAG	QTY	LOCATION	DESCRIPTION	MANUFACTURER	STYLE / MODEL	SIZE	PRVD BY	INST BY	NOTE
EQ-1	1	EXERCISE AREA	WALL MOUNTED iPAD HOLDER	TFY	B07RGDK9CZ	2.7 IN (MIN.) - 7.48 IN (MAX.)	GC	GC	SEE DETAIL 1/A7-10 FOR MOUNTING DETAILS
EQ-2	1	LOCKERS	4 - TIER LOCKERS + TRIM	D&A STUDIOS	BLACK	EACH TIER: 12" W X 20" D X 72" H	OWNER	GC	SEE VENDOR CONTACT ON SHEET T1-02; EACH LOCKER INCLUDES SQUARESILVER NUMBER DISC WITH BLACK FONT & OJMAR OMBI PRO SILVER LOCK TYPE. KEYS TO BE STORED IN LOCKER # 1.
EQ-3	2	RECEPTION/UTILITY	RECEPTION CHAIR	-	-	-	OWNER	OWNER	GC TO ASSEMBLE / INSTALL
EQ-4	16	EXERCISE AREA	FITNESS MACHINES	-	SWEATLANA	-	OWNER	OWNER	OWNER TO ASSEMBLE / INSTALL. CONFIRM QUANTITY WITH OWNER
EQ-5	2	STORAGE/UTILITY	WIRE SHELVING	ULINE	H-1749-72	48" W X 18" D X 72" H	GC	GC	GC TO ASSEMBLE / INSTALL
EQ-6	2	RESTROOM	XLERATOR HAND DRYER	EXCEL	XLERATOR HAND DRYER-XL-GR & #40502	-	GC	GC	GRAPHITE COVER W / RAVEN BLACK ADA RECESSED KIT
EQ-7	1	RECEPTION	BEVERAGE COOLER	EDGESTAR	CBR902SG	15" W X 32" H	GC	GC	SEE DETAIL 4 & 5/A7-20
EQ-8	1	STORAGE/UTILITY	MOP BROOM HOLDER	BRADLEY CORP.	9953	-	GC	GC	INSTALL AT 5'-0" AFF; PROVIDE 2X FRT WOOD BLOCKING AS REQUIRED
EQ-9	2	GENERAL	13" ACRYLIC SWEAT BAG DISPENSER	SPORTS SOLUTIONS	30039-DSP	13"	OWNER	OWNER	SEE SHEET A3-11 & INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
EQ-10	1	RECEPTION	FILING CABINET	DEVAISE	PCA002B1	17.1" D X 14.6" W X 23.6" H	GC	GC	TO GO UNDER RECEPTION DESK
EQ-11	2	RECEPTION	COAT RACK	D&A STUDIOS	BLACK	48"W X 80"H X 14"D	OWNER	GC	PROVIDE BLOCKING AS REQUIRED
EQ-12	2	LOCKERS	DRY BAR MIRROR	KOHLER	K-26051-BLL	20-1/16"W X 40-1/16" H X 1-3/8" D	GC	GC	PROVIDE BLOCKING AS REQUIRED- SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
EQ-13	1	STORAGE / UTILITY	DESK	COLESHOME	BLACK	48" D X 20" W X 29" H	OWNER	GC	GC TO ASSEMBLE / INSTALL
EQ-16	1	LOCKERS	ARCHED ALUMINUM FRAMED MODERN FULL LENGTH MIRROR FLOOR MIRROR	XRAMFY	BLACK	25"W X 1/2"D X 72"H	GC	GC	TO BE MOUNTED 12" ABOVE THE GROUND

RESTROOM ACCESSORY SCHEDULE

INDICATED BY ⬡ SYMBOL

TAG	DESCRIPTION	MODEL #	NOTES / MOUNTING HEIGHTS
A1	42" GRAB BAR	GRAB BAR SPECIALISTS 991-GBS-1-14-MB	34" TO HORIZONTAL C.L. - MOUNT AT SIDE WALL OF WATER CLOSET, 12" FROM CENTERLINE OF BRACKET TO BACK WALL - SMOOTH FINISH MATTE BLACK
A2	36" GRAB BAR	GRAB BAR SPECIALISTS 991-GBS-1-14-MB	34" TO HORIZONTAL C.L. - MOUNT AT BACK WALL OF WATER CLOSET, 6" FROM CENTERLINE OF BRACKET TO SIDE WALL - SMOOTH FINISH MATTE BLACK
A3	18" GRAB BAR	GRAB BAR SPECIALISTS 991-GBS-1-14-MB	MOUNT VERTICAL, 40" A.F.F. TO CENTERLINE OF BRACKET - SMOOTH FINISH MATTE BLACK
B	MIRROR - SEE SHEET A7-20	CHICO24366000-BLK	BOTTOM OF REFLECTIVE SURFACE AT 40" A.F.F. - SEE SHEET A3-21
C	TOILET PAPER DISPENSER (RECESSED), MULTI-ROLL	BOBRICK B-35883.MBLK	24" A.F.F. AT CENTERLINE, 7" TO 9" CENTERLINE IN FRONT OF WATER CLOSET
D	LAVATORY PIPE INSULATION	LAVGUARD TRUEBRO 100 SERIES, GREY	INSTALL OVER HOT / COLD WATER AND DRAIN PIPES
E	COAT HOOK	BOBRICK B-9542.MBLK	MOUNT 48" A.F.F. TO CENTERLINE OF HOOK - SEE SHEET A3-11 & A3-21 FOR MOUNTING LOCATION
F	RECESSED SANITARY DISPENSER	BOBRICK B-3513.MBLK	PROVIDED & INSTALLED BY G.C. - SEE SHEET A3-11 FOR MORE INFORMATION

PLUMBING FIXTURE SCHEDULE

INDICATED BY ⬡ SYMBOL

TAG	DESCRIPTION	ITEM	MANUFACTURER	STYLE / MODEL	NO.	COLOR / FINISH	NOTE
EWC	ELECTRIC WATER COOLER	BI-LEVEL REFRIGERATED BOTTLE FILLING STATION FILTERED	HALSEY TAYLOR	-	HTHB-HACG8BLPV-WF	GRAY	SEE 9/G1-10 FOR MOUNTING HEIGHTS
EWH	ELECTRIC WATER HEATER	ELECTRIC WATER HEATER	A.O. SMITH		DEL 10	ZINC PLATED COPPER SHEATHS	SEE PLUMBING DRAWINGS FOR MORE INFO.
WC1	WATER CLOSET	ULTRAMAX II ONE-PIECE TOILET, 1.28GPF	TOTO	-	MS604124CEFG (LEFT)* MS604124CEFR G (RIGHT)*	WHITE	SEE SHEET A3-21 & PLUMBING DWGS FOR MORE INFO. *PROVIDE TRIP LEVER ON OPEN SIDE OF ADA TOILET.
S-1	LAVATORY	BATHROOM SINK	KOHLER	VERTICYL	K-2882-0	WHITE	SEE SHEET A3-11 & PLUMBING DWGS FOR MORE INFO
S-2	LAVATORY	BATHROOM FAUCET	SLOAN	OPTIMA SENSOR FAUCET	EAF-250-ISM	GRAPHITE	-
F-2	MOP SINK	MOP SINK FAUCET	FIAT	-	830-AA	CHROME PLATED	-
S-2	MOP SINK	MOP SINK BASIN	FIAT	-	MSB2424	MOLDED STONE	-

DOOR, FRAME AND HARDWARE SCHEDULE

INDICATED BY ⬭ SYMBOL

NUMBER	LOCATION	NOMINAL SIZE			MATERIALS	FIN.	FRA.	FRA. TYPE	DOOR			HARDWARE			REMARKS
		W	H	TH					TYPE	PRVD	INST	TYPE	PRVD	INST	
100	ENTRY (EXISTING)	3' - 0"	8' - 0"	0' - 1 3/4"	EX	EX	EX	EX	EX	EX	EX	3	EX	EX	VERIFY IN GOOD WORKING CONDITION
101	EXERCISE AREA	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3 / P4	P3 / P4	1	A	GC	GC	2	GC	GC	PAINT DOOR FRAME P4 ON EXERCISE AREA SIDE OF DOOR ONLY
102	UNISEX ACCESSIBLE RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3	P3	1	A	GC	GC	1	GC	GC	SEE SHEET A1-31 FOR SIGNAGE MOUNTING AND LOCATIONS
103	UNISEX ACCESSIBLE RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3	P3	1	A	GC	GC	1	GC	GC	SEE SHEET A1-31 FOR SIGNAGE MOUNTING AND LOCATIONS
104	EXERCISE AREA	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3 / P4	P3 / P4	1	A	GC	GC	2	GC	GC	PAINT DOOR FRAME P4 ON EXERCISE AREA SIDE OF DOOR ONLY
105	STORAGE/UTILITY	3' - 0"	7' - 0"	0' - 1 3/4"	SCWD	P3 / P4	P3 / P4	1	A	GC	GC	4	GC	GC	
106	VESTIBULE (EXISTING)	3' - 0"	7' - 0"	0' - 1 3/4"	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	VERIFY IN GOOD WORKING CONDITION

DOOR HARDWARE GROUPS

SET #1: RESTROOM DOOR

HINGES:	AS REQUIRED	IVES	**FUNCTION:** L9496 PRIVACY WITH "OCCUPIED" INDICATOR. DEADBOLT ACTUATION BY OUTSIDE OR INSIDE THUMB TURN. INSIDE KNOB /LEVER RETRACTS BOTH DEADBOLT AND LATCH BOLT AND UNLOCKS OUTSIDE LEVER.
PROTECTION PLATE:	8400 10" X 2" LDW B-CS /		
PRIVACY LOCK W/ INDICATOR:	L9496 17B	SCHLAGE	
PROTECTION PLATE:	8400 10" X 2" LDW B-CS / BOTH SIDES OF DOOR	IVES	
WALL STOP:	WS406	IVES	
CLOSER:	S-DS, BLACK	DORMA	

SET #2: EXERCISE AREA DOOR

HINGES:	AS REQUIRED	IVES	**FUNCTION:** RM7927 GEOMETEK DOOR PULLS. ROCKWOOD ROLLER LATCH WITH ASA STRIKE BLACK SUEDE POWERCOAT (BSP).
PROTECTION PLATE:	8400 10" X 2" LDW B-CS / BOTH SIDE OF DOOR	IVES	
WALL STOP:	WS406	IVES	
CLOSER:	S-DS, BLACK	DORMA	
PULLS:	RM7927 GEOMETEK	ROCKWOOD	
LATCH:	ROLLER LATCH	ROCKWOOD	
STRIKE:	ASA STRIKE (BSP)		
KICKSTAND:	FS452	IVES	

SET #3: ENTRY DOOR

EXISTING HARDWARE (BY LL)			**FUNCTION:** INTERIOR ACTUATOR ALWAYS ACTIVE TO UNLOCK AND OPEN THE DOOR. A VALID CREDENTIAL WILL UNLOCK THE DOOR AND MAKE THE EXTERIOR ACTUATOR ACTIVE. CONFIRM OPERATION WITH TENANT.
KEYPAD / ELEC. STRIKE:	BY SECURITY VENDOR		

*G.C. TO MAINTAIN THROUGHOUT CONSTRUCTION

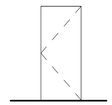
SET #4: UTILITY DOOR

HINGES:	AS REQUIRED	IVES	**FUNCTION:** ND50 (F82) ENTRANCE / OFFICE LOCK PUSH-BUTTON LOCKING. PUSH-BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED WITH KEY OR BY TURNING INSIDE LEVER.
ENTRANCE LOCK:	ND50 SPA 622 MATTE BLACK	SCHLAGE	
PROTECTION PLATE:	8400 10" X 2" LDW B-CS / BOTH SIDE OF DOOR	IVES	
WALL STOP:	WS406	IVES	
CLOSER:	S-DS, BLACK	DORMA	

DOOR ABBREVIATIONS

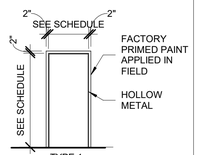
ALUM.= ALUMINUM	PTD. = PAINTED (PT-X)
SCWD = SOLID CORE WOOD	WD = STAIN (ST-X)
H.M. = HOLLOW METAL	GL = GLASS
ETR = EXISTING DOOR TO REMAIN	

DOOR TYPES



TYPE A

DOOR FRAME TYPES



TYPE 1

GENERAL NOTES

A. PROVIDE (3) SILENCERS (GRAY COLOR) FOR SINGLE DOOR FRAME AND (6) SILENCERS FOR DOUBLE DOOR FRAMES.
B. CLOSER AND OTHER HARDWARE SHALL MEET THE REQUIREMENTS OF ADA REGULATIONS.
C. ALL HARDWARE ALLOWS FREE EGRESS IN THE DIRECTION OF EGRESS.
D. ALL ACCESS CONTROLLED EGRESS DOORS TO BE EQUIPPED WITH APPROVED ENTRANCE AND EGRESS ACCESS CONTROL SYSTEM TO COMPLY WITH IBC 1008.1.9.8.
E. HARDWARE FINISH TO BE FLAT BLACK (US19/315/SPBLK) THROUGHOUT, U.O.N.

A. SC WD DOOR MATERIAL TO BE PLAIN SLICED MAPLE VENEER PAINTED. MATCH ARCHITECTS CONTROLS SAMPLE.

B. NEW DOORS ARE TO MATCH EXISTING DOOR HEIGHTS. FIELD VERIFY AND COORDINATE WITH ARCHITECT.

C. HARDWARE MOUNTING AND FUNCTION TO MEET ADA REQUIREMENTS.

D. COORDINATE WITH LANDLORD/TENANT FOR DOORS/FRAMES TO BE PREPARED WITH SECURITY HARDWARE AND FUNCTIONS.

E. FOR FRAME CONDITIONS AND SIZES, SEE PARTITION TYPES AND REFER TO DETAILS. COORDINATE THROAT DIMENSIONS WITH PARTITION TYPES.

F. SEE INTERIOR ELEVATIONS AND DETAILS FOR FURTHER INFORMATION.

G. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

H. ELECTRIC LOCKING DEVICES TO ALLOW ACCESS IN DIRECTION OF INGRESS VIA CARD READER AND UNIMPEDED ACCESS IN DIRECTION OF EGRESS IN COMPLIANCE WITH CODE.

I. COORDINATE FAIL SAFE LOCKS WITH REQUIREMENTS OF FIRE MARSHAL AND FIRE ALARM SYSTEM.

J. PROVIDE RING AND STRING FOR LOW VOLTAGE DOOR SECURITY REQUIREMENTS. SECURITY VENDOR TO PROVIDE TIE-INS.

K. DIMENSION, MATERIALS, AND INSTALLATION AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.

L. SEPARATE SHOP DRAWINGS TO BE PROVIDED FOR ELECTRIC LOCKING DEVICE CARD READER PROVIDED AT NEW ENTRANCE DOOR.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	2026-03-09	LL REVIEW SET
	2026-03-09	ISSUED FOR PERMIT
1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

SCHEDULES

A9-10

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LIGHTING FIXTURE SCHEDULE

SYMBOL	LABEL	MANUFACTURER	CATALOG NO.	FIXTURE DESCRIPTION	LAMP DATA	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
	A	LITHONIA LIGHTING	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI MB	48" BLACK LED LINEAR, ROUND DIFFUSE LENS, BLACK FINISH, 3500K COLOR TEMP.	LED	UNIV	35	SUSPENDED	HANG FIXTURE TO 10'-0" A.F.F. TO BOTTOM OF FIXTURE. VERIFY WITH ARCHITECTURAL DRAWINGS. PROVIDE CHAIN HANGING ACCESSORIES AS NEEDED.
	D	PINNACLE	EV3D-A-830-4-G1-U-PL2-1-0-BL	4FT LONG EV3D 3" RECESSED LINEAR LIGHTS, SUSPENDED, SATINE LENS, BLACK FINISH, 3000K COLOR TEMP.	10W LED TRACK HEAD, 3000K	120	11	CEILING	RECESSED IN ACT CEILING - SEE RCP
	E1	BARRON LIGHTING / EXITRONIX	VLEDC-51-BL-R4 / VLEDC-51-WH-R4	SINGLE/DOUBLE FACE LED EXIT LIGHT/EMERGENCY LIGHT W/ 2 EMERGENCY LIGHTS, RED LETTERS, BLACK FINISH IN STUDIO, WHITE IN ALL OTHER SPACES	LED	UNIV	5	CEILING	
	E2	BARRON LIGHTING	S900U-WB-SR-R-BL/ S900U-WB-SR-R-WH	SINGLE/DOUBLE FACE LED EXIT LIGHT, RED LETTERS, BLACK BARRON LIGHTING FINISH, WHITE IN ALL OTHER SPACES	LED	UNIV	5	CEILING	
	EM2	BARRON LIGHTING / EXITRONIX	LED-95-WH	DUAL-HEAD ADJUSTABLE LED EMERGENCY LIGHT, WHITE FINISH, CEILING/WALL MOUNTED	1.5W LAMP HEADS	UNIV	27	CEILING/WALL	WITH 90 MINUTE (MIN.) EMERGENCY BATTERY BACKUP
	EM3	BARRON LIGHTING / EXITRONIX	FRM-BL	DUAL-HEAD LED EMERGENCY LIGHT, BLACK FINISH, RECESSED	4W LAMP HEADS	UNIV	-	RECESSED	WITH 90 MINUTE (MIN.) EMERGENCY BATTERY BACKUP APPLICABLE FOR EM LIGHTS REQUIRED TO BE IN CENTER OF STUDIO CEILING
	F	NOVA FLEX LED	NF-PRO-O-120-24V-3225K	WHITE LED TAPE INSTALLED IN CONTINUOUS LENGTH AS NOTED ON PLANS, SURFACE 1612 ALUMINUM CHANNEL, 3225 COLOR TEMP	LED	UNIV	3W/FT	LED TAPE	PROVIDE LENGTH NEEDED TO RUN IN CHANNEL ALONG THE TOP AND BOTTOM OF THE ENTIRE VANITY MIRROR. PROVIDE ALL ACCESSORIES AND POWER SUPPLIES FOR A COMPLETE INSTALLATION.
	G	NOVA FLEX LED	NF-B-O-60-24V	BLUE LED TAPE INSTALLED IN CONTINUOUS LENGTH AS NOTED ON PLANS, PROVIDE DIMMER SWITCH COMPATIBLE WITH LED PRODUCT	LED	UNIV	1.5W/FT	LED TAPE	PROVIDE LENGTH NEEDED TO RUN IN CHANNEL ALONG THE ENTIRE TOP AND BOTTOM OF THE MIRROR FROM WALL TO WALL. PROVIDE ALL ACCESSORIES AND POWER SUPPLIES FOR A COMPLETE INSTALLATION.
	H	NDR ELECTRIC	OB400-0510-3K-WH	4 INCH LED RECESSED DOWNLIGHT, 3000K, WHITE TRIM	LED	UNIV	10	RECESSED	
	I1	PINNACLE	EV3D-A-830-4-SFS-U-PL2-1-0-W	4' LENGTH RECESSED LIGHT, SOFT DIFFUSE LENS, CARBON WHITE FINISH, 3000K COLOR TEMP	LED	UNIV		RECESSED	RECESSED IN GYP. BD. CEILING
	N	PINNACLE	EV3WW-CL830650-6-GS-U-FSD-1-0-BL	6' LENGTH RECESSED LINEAR WALL-WASH LED LIGHT, BLACK FINISH	LED	UNIV	6W/FT	RECESSED	RECESSED IN ACT CEILING, 24" FROM SIGNAGE WALL. FIXTURE TO BE CENTERED ON SIGNAGE.
	P	WING LIGHTINGS	WLW0036	MODERN SKYLARK WALL SCONCE, GLASS WALL LIGHT, BLACK FINISH	E26 T10 BULB	110	60	WALL MOUNTED	TO BE AT DRY BAR VANITY - SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
	S	ILLUMINATED BATHROOM MIRROR	CHICO24366000-BLK	24"W X 36"H X 2"D	LED	110	35.5	WALL MOUNTED	TO BE IN RESTROOMS
	RH	BARRON LIGHTING / EXITRONIX	RH	2-LAMP REMOTE HEAD FIXTURE AS COMPATIBLE WITH FIXTURE 'E1'	LED	UNIV	2	CEILING	

NOTE: LINEAR FIXTURES HAVE 4 WEEK LEAD TIME. G.C. TO ORDER LIGHTING FIXTURES THROUGH SOLIDCORE'S CED NATIONAL ACCOUNT - SEE VENDOR LIST BELOW.

ALL OUTLETS, DEVICES, SWITCH PLATES, COVER PLATES, ETC. TO BE BLACK, U.N.O.

VENDORS

SIGNAGE

SOUTHEAST SIGN CO.
6400 N ANDREWS AVE,
SUITE 120
FORT LAUDERDALE, FL 33309

CONTACT:
MATT BOONE
DIRECTOR OF PROJECT MANAGEMENT
(P) 754.332.2263
MATT@SOUTHEASTSIGNCO.COM

AUDIO

MOOD MEDIA
2100 S IH-35 FRONTAGE RD,
SUITE 200
AUSTIN, TX 78704

CONTACT:
GIB HARRIS
(P) 610.647.5082
GIB.HARRIS@
MOODMEDIA.COM

EQUIPMENT VENDOR

BTX INDUSTRIES
1101 30TH STREET NW
SUITE 500
WASHINGTON, DC 20007

CONTACT:
JOSIE ARUNGAYAN
(P) 301.637.2726

ACOUSTIC HANGERS

MASON WEST, INC.
1601 E. MIRALOMA AVE.
PLACENTIA, CA 92870

CONTACT:
BRITTANY BURDETT
(P) 714.450.8022
BRITTANY@
MASONWEST.COM

MILLWORK VENDOR

D&A STUDIOS
3990 NW 132ND STREET
BAY F&G
OPA LOCKA, FL 33054

CONTACT:
ANH DUONG
(P) 786.344.5253
ANHINC5253@GMAIL.COM

SECURITY

BASS SECURITY
26701 RICHMOND ROAD
BEDFORD HEIGHT, OH 44146

CONTACT:
JASON STALLARD
PROJECT COORDINATOR
(P) 216.755.1200 X1190
JSTALLARD@BASS-SECURITY.COM

LIGHTING

CED NATIONAL ACCOUNTS
1920 WESTRIDGE DR.
IRVING, TX 75038

CONTACT:
RYAN DENNEY
(P) 817.923.1983
(C) 281.733.8884
RYAN.DENNEY@CED.COM

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

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1	2026-05-12	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: SM APPROVED BY: EL

SEAL

DISTRICT OF COLUMBIA
ERIC STYER
ARC102311
LICENSED
ARCHITECT

DATE OF SIGNATURE: 03-09-2026

PERMIT COMMENTS

SHEET TITLE & NUMBER

SCHEDULES

A9-20

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STRUCTURAL ABBREVIATIONS

#	POUND(S), NUMBER
&	AND
(E)	EXISTING
@	AT
AB	ANCHOR BOLT (S)
ADDL	ADDITIONAL
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
B/FTG	BOTTOM OF FOOTING
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BMD	BOTTOM OF METAL DECK
BN	BOUNDARY NAIL
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BS	BOUNDARY SCREW
BTWN	BETWEEN
CANT	CANTILEVER(ED)
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONTROL OR CONST JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DBL	DOUBLE
DC	DEMAND CRITICAL (WELD)
deg	DEGREE
DET	DETAIL(S)
DF	DOUGLAS FIR
DFL	DOUGLAS FIR LARCH
dia	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EL	ELEVATION
ELEV	ELEVATOR
EMB	EMBEDMENT
EN	EDGE NAIL
EOJ	END OF JOIST
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
ETC	ET CETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR
FIN FLR	FINISH FLOOR
FLR	FLOOR
FRMG	FRAMING
FRT	FIRE-RETARDENT TREATED
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
ga	GAUGE
GALV	GALVANIZE(D)
GLB	GLULAM BEAM
HDR	HEADER
HGR	HANGER
HK	HOOK

STRUCTURAL ABBREVIATIONS

HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
INT	INTERIOR
ISF	INSIDE FACE
J/BRG	JOIST BEARING
JG	JOIST GIRDER
JG/BRG	JOIST GIRDER BEARING
JST	JOIST
JT	JOINT
kip	1,000 POUNDS
ksi	kips PER SQUARE INCH
LB	POUND
LL	LANDLORD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NS	NEAR SIDE
NTS	NOT TO SCALE
oc	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OSF	OUTSIDE FACE
PAF	POWER-ACTUATED FASTENER
PARA	PARAPET
PEMB	PRE-ENGINEERED METAL BUILDING (MANUFACTURER)
PIL	PILASTER
PL	PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
QT	QUANTITY
REINF	REINFORCED, REINFORCING
REQD	REQUIRED
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SD	SNOW DRIFT
SHTG	SHEATHING
SIM	SIMILAR
SL	SNOW LOAD
SPF	SPRUCE PINE FIR
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SYP	SOUTHERN YELLOW PINE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/BRG	TRUSS BEARING
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/PARA	TOP OF PARAPET
T/PIL	TOP OF PILASTER
T/STL	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
USGS	US GEOLOGICAL SURVEY
VAR	VARIES
VERT	VERTICAL
w/	WITH
WHS	WELDED HEADED STUD(S)
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

SHOP DRAWING AND SUBMITTAL NOTES

1. SHOP DRAWINGS AND/OR SUBMITTALS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS. UNLESS OTHERWISE NOTED, THESE SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH THESE CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS (IF APPLICABLE). CONTRACTOR SHALL ALLOW A MINIMUM OF 2 WEEKS FROM RECEIPT OF SHOP DRAWINGS FOR CASE ENGINEERING INC. TO PROVIDE RESPONSE.
2. PRIOR TO SUBMITTAL TO THE ENGINEER, THE CONTRACTOR AND ARCHITECT SHALL HAVE REVIEWED THE SHOP DRAWINGS AND MADE ANY CORRECTIONS REQUIRED. THE CONTRACTOR AND ARCHITECT SHALL STAMP THE DRAWINGS, INDICATING THE SUBMITTAL HAS BEEN REVIEWED.
3. STRUCTURAL DRAWINGS ARE THE SOLE PROPERTY OF CASE ENGINEERING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR USE IN SHOP DRAWING SUBMITTALS IS NOT ACCEPTABLE WITHOUT OUR WRITTEN AGREEMENT.
4. SHOP DRAWING REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE RESPONSIBILITY FOR FINAL COMPLETENESS AND CORRECTNESS SHALL RESIDE WITH THE PREPARER OF THE SHOP DRAWINGS.

BUILDING CODES AND STANDARDS USED FOR DESIGN

1. 2017 DISTRICT OF COLUMBIA BUILDING CODE (2015 IBC AMENDED)
   ASCE 7-10
   OCCUPANCY CATEGORY: II

DESIGN LOADS

1. DESIGN LOADS
   FLOOR LIVE LOAD: 100 psf
2. SEISMIC LOAD DESIGN CRITERIA
   SEISMIC IMPORTANCE FACTOR, I: 1.0
   SITE CLASS: D - DEFAULT
   SPECTRAL RESPONSE ACCELERATION: Ss=0.118g, S1=0.051g
   Sds=0.126g, Sd1=0.081g
   SEISMIC DESIGN CATEGORY: B

EXISTING CONSTRUCTION NOTES

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.
2. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND STRUCTURAL DRAWINGS.
3. FOR ALL EXISTING CONSTRUCTION: DUE TO LIMITED OBSERVATION, OR NOT BEING ABLE TO VISIT THE EXISTING BUILDING DURING THE PREPARATION OF THESE DOCUMENTS, CASE ENGINEERING HAS ASSUMED THE EXISTING STRUCTURE IS IN LIKE-NEW CONDITION WITH NO CORROSION, DETERIORATION, OR DAMAGE, AND WAS CONSTRUCTED PER ANY ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED (IF ANY EXIST). CONTRACTOR SHALL VERIFY THESE ASSUMPTIONS TO THE BEST OF THEIR ABILITY AND NOTIFY THE ENGINEER OF ANY CONCERNS, ISSUES, OR DISCREPANCIES.

GENERAL STRUCTURAL NOTES

1. THIS DRAWING SET IS TO BE VIEWED AS A WHOLE AND COORDINATED WITH ARCHITECTURAL, MECHANICAL AND OTHER DISCIPLINES. ALL WORK PERTAINING TO A SPECIFIC CONTRACTOR MAY OR MAY NOT BE SHOWN ON SPECIFIC DRAWING SECTIONS. IT IS EACH SUBCONTRACTOR'S RESPONSIBILITY TO PREPARE HIS BID FROM A COMPLETE SET OF PLANS.
2. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DIMENSIONS NOT SHOWN ON PLAN TO BE COORDINATED WITH ARCHITECTURAL PLANS.
3. WHERE INFORMATION PROVIDED IN THESE STRUCTURAL DRAWINGS CONTRADICTS INFORMATION PROVIDED IN PROJECT SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE.
4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ANY SIMILAR SITUATION ELSEWHERE ON THE JOB, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
7. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND INFORMATION.
8. WHERE GENERAL NOTES OR TYPICAL DETAILS CONTRADICT INFORMATION PROVIDED IN BUILDING SECTIONS, THE BUILDING SECTIONS TAKE PRECEDENCE.

TENSION LAP SPLICE LENGTH IN CONCRETE NOTES

1. WHERE CLEAR SPACING OF BARS BEING SPLICED IS AT LEAST 2 BAR DIAMETERS AND CLEAR COVER AT LEAST 1 BAR DIAMETER, USE CASE 1. FOR ALL OTHER BAR ARRANGEMENTS, USE CASE 2.
2. VALUES IN THE TABLE ARE BASED ON 60ksi REBAR. FOR OTHER REBAR YIELD STRENGTHS, MULTIPLY VALUES IN THE TABLE BY THE SPECIFIED YIELD STRENGTH DIVIDED BY 60.
3. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, PROVIDE THE LAP LENGTH OF THE LARGER BAR.
4. WELDED WIRE REINFORCEMENT (DEFORMED OR PLAIN WIRE) SHALL BE LAPPED ONE FULL MESH SQUARE PLUS 2 INCHES MINIMUM, BUT NOT LESS THAN 12 INCHES.
5. REBAR IN ALL CONCRETE MEMBERS SHALL BE SPLICED IN ACCORDANCE WITH "TENSION LAP SPLICE LENGTH" TABLE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

TENSION LAP SPLICE LENGTH IN CONCRETE - 60 KSI REBAR TABLE (INCHES)

f'c =	3,500psi	3,500psi	4,000psi	4,000psi	4,500psi	4,500psi	5,000psi	5,000psi
BAR SIZE	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#4	27	40	25	37	24	35	23	34
#5	33	50	31	47	30	44	28	42

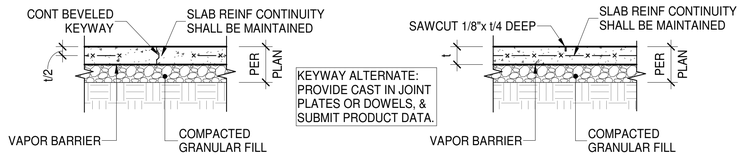
CONCRETE NOTES

1. ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING, FINISHING AND CURING SHALL BE DONE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301 LATEST EDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE MIX DESIGN SUPPLIER TO PROPORTION MIXES APPROPRIATELY TO REACH THE REQUIRED PROPERTIES NOTED, AND SHALL BE APPROPRIATE FOR THEIR INTENDED USE. ADMIXTURES MEETING ASTM C494 ARE OPTIONAL. HOWEVER, AIR-ENTRAINING ADMIXTURES MEETING ASTM C260 SHALL BE USED FOR CONCRETE EXPOSED TO THE EXTERIOR OR FREEZE-THAW CYCLES.
3. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR EACH INTENDED USE ON THE PROJECT FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. CONTENTS OF THE MIX DESIGN SHALL COMPLY WITH, AND INCLUDE ALL INFORMATION REQUIRED BY, ACI 318, CHAPTER 5 (FOR 2011 AND EARLIER CODE EDITIONS), & CHAPTER 26 (FOR 2014 CODE EDITION). THIS INCLUDES, BUT IS NOT LIMITED TO NUMBER OF TESTS AND AGE OF TESTS INCLUDED IN THE MIX DESIGN REPORT.
4. ALL CONCRETE DENSITY SHALL BE NORMAL WEIGHT (145 pcf +/- 5) UNLESS OTHERWISE INDICATED. LIGHT WEIGHT CONCRETE SHALL BE 110 pcf +/- 5, UNO.
5. FLY ASH ALLOWANCES:
   - 15% MAXIMUM BY WEIGHT OF CEMENTITIOUS MATERIAL IN SLABS
6. COORDINATE CONCRETE WORK WITH THAT OF OTHER TRADES TO ALLOW FOR SETTING OF SLEEVES, ACCESSORIES, ETC.
7. ALL REINFORCING STEEL, ANCHOR RODS, DOWELS, AND INSERTS SHALL BE WELL-SECURED IN POSITION PRIOR TO PLACING CONCRETE. DO NOT "WET SET" OR "FLOAT" INTO CONCRETE.
8. TEST CYLINDERS WILL BE REQUIRED, AND RECORDS OF RESULTS SHALL BE SUBMITTED TO ENGINEER OF RECORD. PROVIDE A MINIMUM OF (4) 6"x12" OR (5) 4"x8" CYLINDERS OF EACH MIX DESIGN FOR TESTING AT THE FREQUENCIES LISTED BELOW. TEST 1 AT 7 DAYS, 2 AT 28 DAYS FOR 6"x12" CYLINDERS, OR 3 AT 28 DAYS FOR 4"x8" CYLINDERS. KEEP 1 SPARE FOR FURTHER TESTING IF NEEDED. CYLINDERS SHALL BE TAKEN AND TESTED NO LESS THAN THE FOLLOWING: (SLUMP TESTS ARE RECOMMENDED)
   A. ONCE A DAY
   B. FOR EACH 150 CUBIC YARDS POURED
   C. FOR EACH 5,000 SQ. FT. OF SURFACE AREA POURED
9. CONSTRUCTION JOINTS IN CONCRETE INDICATED WITH A ROUGH, CLEAN SURFACE SHALL HAVE A 1/4" AVERAGE AMPLITUDE.
10. ALL COLD JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING CONCRETE.
11. SLUMP: CONCRETE MIXES SHALL BE PROPORTIONED TO ACHIEVE A MAXIMUM SLUMP OF 8" FOR CONCRETE CONTAINING HIGH RANGE WATER REDUCING ADMIXTURE. 6" FOR CONCRETE CONTAINING A MID-RANGE WATER REDUCING ADMIXTURE. MIXES SHALL HAVE A WATER SLUMP OF 2"-3" PRE-ADDITIVE (3" TO 4" FOR CONCRETE RECEIVING A "DRY-SHAKE" HARDENER). MAXIMUM 4" WATER SLUMP FOR ALL OTHER CONCRETE NOT CONTAINING A WATER REDUCER.
12. DEPOSIT AND CONSOLIDATE CONCRETE FOR FLOORS AND SLABS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF CONSTRUCTION JOINTS, UNTIL PLACEMENT OF A PANEL OR SECTION IS COMPLETE.
    A. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.
    B. MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.
    C. SCREED SLAB SURFACES WITH A STRAIGHT EDGE AND STRIKE OFF TO CORRECT ELEVATIONS.
    D. UTILIZE A VIBRATORY SCREED FOR CONCRETE THAT WILL RECEIVE DIAMOND POLISH FINISH. KEEP VIBRATING SCREED MOVING CONTINUOUSLY ACROSS SURFACE. DO NOT STOP SCREED IN ANY ONE PLACE WHILE VIBRATING.
    E. SLOPE SURFACES UNIFORMLY TO DRAINS WHERE REQUIRED.
    F. BEGIN INITIAL FLOATING USING BULL FLOATS OR DARBIES TO FORM A UNIFORM AND OPEN-TEXTURED SURFACE PLANE BEFORE EXCESS BLEED WATER APPEARS ON THE SURFACE. DO NOT FURTHER DISTURB SLAB SURFACES BEFORE STARTING FINISHING OPERATIONS.
    G. THE USE OF HIGHWAY STRAIGHT EDGES OR "BUMP CUTTERS" ON CONCRETE SLABS TO BE POLISHED IS PROHIBITED.
13. CONCRETE TO BE POLISHED SHALL RECEIVE A HARD STEEL TROWEL FINISH WITH A MINIMUM OF (3) SEPARATE PASSES WITH POWER TROWEL TO ACHIEVE CLASS 5 FINISH AS DESCRIBED IN ACI 302R. HAND TROWELLING SHALL BE LIMITED TO ONLY THOSE AREAS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
    A. INSPECT TROWELLING MACHINE AND REMOVE ACCUMULATED MORTAR PRIOR TO EACH PASS.
    B. FINISH SURFACE SHALL BE FREE OF TROWEL MARKS, BURN MARKS AND MOTTLING.
14. ALL SLABS-ON-GRADE SHALL MEET THE SPECIFIED OVERALL FLOOR FLATNESS (FF) AND OVERALL FLOOR LEVELNESS (FL) MEASUREMENTS PROVIDED BASED ON BUILDING USE. COORDINATE WITH THE ARCHITECT, EQUIPMENT MANUFACTURERS AND OWNER/TENANT FOR MORE STRINGENT SPECIFIED OVERALL REQUIREMENTS AND FOR ANY MINIMUM LOCAL VALUES UNDER SPECIFIC EQUIPMENT. TESTING SHALL BE DONE ON SLABS REQUIRED TO BE "FLAT" OR "SUPER FLAT" OR AT OWNER / TENANT REQUEST IN ACCORDANCE WITH ASTM E 1155 AND WITHIN 16 TO 72 HOURS OF THE FINAL TROWELING OPERATION.
    A. MODERATELY FLAT: COMMERCIAL BUILDINGS
       - $F_F = 25$, $F_L = 20$
15. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
    A. AIR ENTRAINMENT IS NOT RECOMMENDED FOR SURFACES TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH. COORDINATE FINISH REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATIONS.

CONCRETE TABLE

INTENDED USE	EXPOSURE CLASS	MIN 28 DAY STRENGTH (psi)	MAX WATER-CEMENT RATIO	% TOTAL AIR LIMITS	% MAX SHRINKAGE @ 28 DAYS
INTERIOR SLAB ON GRADE (1)	F0	4,000	0.50	3	0.04

NOTES:
1. SAW-CUT CONTROL JOINTS TO BE CUT AS SOON AS SURFACE WILL NOT BE TORN, ABRADED, OR OTHERWISE DAMAGED BY CUTTING ACTION. (WITHIN 8 TO 10 HOURS OF BURNISHING)
2. SPACE CONTROL JOINTS AT 15'-0" MAX. FOR INTERIOR SLABS UNO ON PLANS.
3. CONSTRUCTION JOINTS TO BE USED AT END OF EACH POUR.



CONSTRUCTION JOINT **CONTROL JOINT**

A S1.1 **TYP SLAB-ON-GRADE CONSTRUCTION JOINT DETAILS**
N.T.S.

REINFORCING STEEL NOTES

1. NON-WELDED STEEL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDED STEEL BAR REINFORCING SHALL CONFORM TO ASTM A706.
2. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN CONFORMANCE WITH AWS D1.1 USING E90 ELECTRODES FOR ASTM A615 REBAR, AND E80 ELECTRODES FOR ASTM A706 REBAR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. WELDED WIRE REINFORCEMENT (WWR) SHALL BE SMOOTH WIRE PER ASTM A185 WITH MINIMUM YIELD STRENGTH, fy = 65 ksi, OR DEFORMED WIRE PER ASTM A497 WITH MINIMUM YIELD STRENGTH, fy = 70 ksi, UNLESS NOTED OTHERWISE.
4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL IN CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
   A. CONCRETE NOT EXPOSED TO EARTH OR WEATHER (SLABS, WALLS, & JOISTS):
      - #14 BARS AND LARGER = 1 1/2"
      - #11 BARS AND SMALLER = 3/4"
5. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ACI 315 (SP-66), DETAILS AND DETAILING OF CONCRETE REINFORCEMENT..

SPECIAL INSPECTIONS

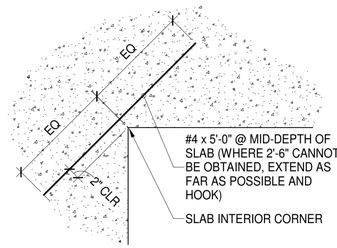
1. REFER TO THE SPECIAL INSPECTION TABLES FOR THE LIST OF ELEMENTS OF CONSTRUCTION THAT SHALL REQUIRE SPECIAL INSPECTION. THIS SHALL BE CONSIDERED A GUIDE, AND THE CONTRACTOR AND INSPECTOR SHALL REFER TO THE IBC FOR COMPLETE REQUIREMENTS, QUALIFICATIONS, EXCEPTIONS, AND SUBMITTALS. REFER TO IBC SECTION 1704 FOR 2003-2009 CODES, AND SECTION 1705 FOR 2012-2018 CODES. THE OWNER SHALL BE RESPONSIBLE FOR EMPLOYING THE SPECIAL INSPECTION AGENCY. ANY "OBSERVATIONS" BY THE EOR WILL NOT BE TO PERFORM SPECIAL INSPECTIONS AND SHALL NOT BE INTERPRETED AS SUCH.
2. COPIES OF ALL INSPECTION REPORTS THAT REPORT COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, AND BUILDING INSPECTOR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT PORTION OF WORK. A MINIMUM OF ONE (1) PROGRESS REPORT PER MONTH FOR EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD.
3. SPECIAL INSPECTOR SHALL INFORM ENGINEER OF RECORD IMMEDIATELY OF NON-COMPLIANCE WITH CONSTRUCTION DOCUMENTS OR APPROVED SUBMITTALS. CONTACT ENGINEER OF RECORD THE SAME DAY NON-COMPLIANCE IS DISCOVERED AND FOLLOW UP WITH AN OFFICIAL REPORT WITHIN 2 BUSINESS DAYS.
4. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR.
5. SPECIAL INSPECTIONS ARE NOTED AS EITHER "CONTINUOUS" OR "PERIODIC". A "CONTINUOUS" INSPECTION REQUIRES THE PRESENCE OF A QUALIFIED INSPECTOR IN THE VICINITY OF THE WORK BEING PERFORMED FOR 100% OF THAT WORK. A "PERIODIC" INSPECTION REQUIRES PART-TIME OBSERVATION OF THE WORK BEING PERFORMED. THE INSPECTOR SHALL ALSO OBSERVE THE FINAL CONDITION OF THE WORK BEFORE IT IS CLOSED FROM VIEW.
6. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

SPECIAL INSPECTIONS - CONCRETE TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
REINFORCEMENT	PERIODIC	INSPECT REINFORCEMENT AND PLACEMENT; VERIFY CONFORMANCE WITH CONSTRUCTION DOCUMENTS, AND THAT BARS ARE FREE FROM MATERIALS THAT COULD PREVENT BOND, ARE ADEQUATELY LAPPED, SPLICED, TIED, AND SUPPORTED
ANCHOR INSTALLATION	CONTINUOUS	INSPECT POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS PER THE REQUIREMENTS IN THEIR RESPECTIVE ICC-ES REPORTS
MIX DESIGN	PERIODIC	VERIFY USE OF APPROVED MIX DESIGN
SAMPLING AND TESTING	CONTINUOUS	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTING; PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE CONCRETE
CONCRETE PLACEMENT	PERIODIC	VERIFY MAINTENANCE OF CURING TEMPERATURE AND TECHNIQUES
CONCRETE PLACEMENT	PERIODIC	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED
CONCRETE PLACEMENT	CONTINUOUS	CONCRETE PLACEMENT

SPECIAL INSPECTIONS - SOILS AND FOUNDATIONS TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
SOILS	CONTINUOUS	VERIFY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESSES, AND COMPACTION OF FILL; VERIFY MATERIALS AND PROCEDURES COMPLY WITH THE GEOTECHNICAL REPORT / SOILS ENGINEER



B S1.1 **TYP REINF @ INTERIOR CORNERS**
N.T.S.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Metra Court T 636.349.1600
St. Louis, MO 63026 F 636.349.1750
CASE PROJECT NUMBER: SOL-OC-01-25

DISTRICT OF COLUMBIA · KYLE J. LINENFELSER · No. 909005 · STRUCTURAL · PROFESSIONAL ENGINEER
03/06/26

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET

PROJECT NUMBER: 25-377
DRAWN BY: MLW APPROVED BY: EA
SEAL

ISSUED FOR PERMIT
SHEET TITLE & NUMBER

GENERAL NOTES & TYPICAL DETAILS

S1.1

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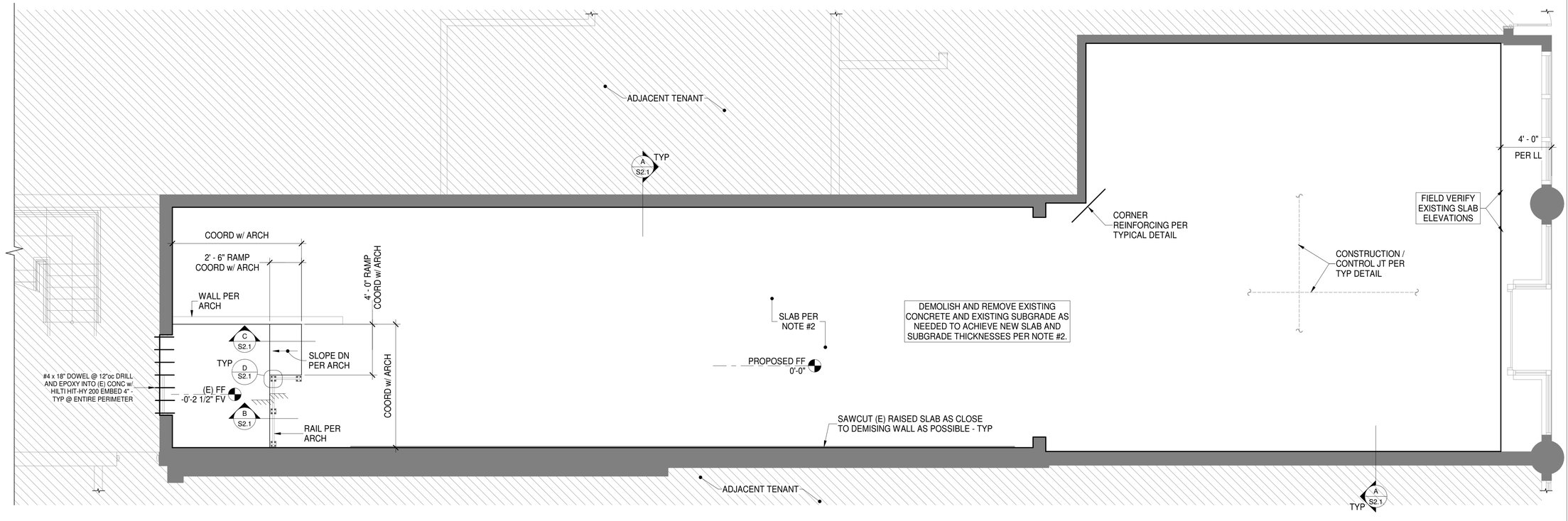
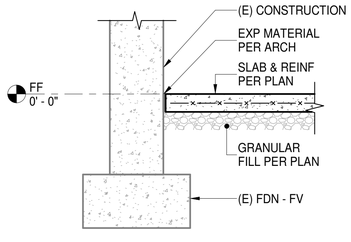


FOUNDATION PLAN

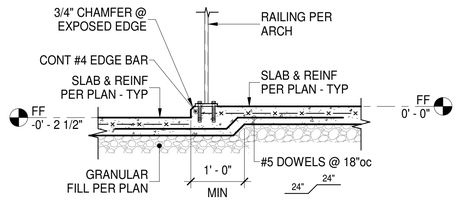
SCALE: 1/4" = 1'-0"

PLAN NOTES

1. SEE SHEET S1.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. 4" CONCRETE SLAB REINFORCED WITH ONE LAYER OF 6x6 - W1.4xW1.4 WWR ON 15 MIL. POLY VAPOR BARRIER OVER 4" MINIMUM COMPACTED FREE-DRAINING GRANULAR MATERIAL. REINFORCEMENT TO BE LOCATED IN THE MIDDLE OF THE SLAB.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SECTIONS, AND ELEVATIONS NOT SHOWN HEREON.
4. COORDINATE SIZE AND LOCATION OF ROUGH OPENINGS IN FLOOR WITH ARCHITECTURAL DRAWINGS.
5. ALL ELEVATIONS ARE REFERENCED FROM FINISHED MAIN FLOOR = 0'-0"



A S2.1 SECTION 3/4" = 1'-0"



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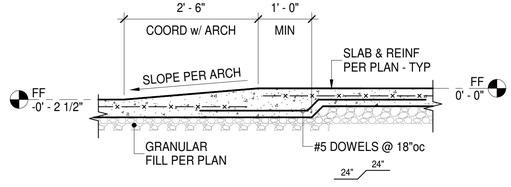
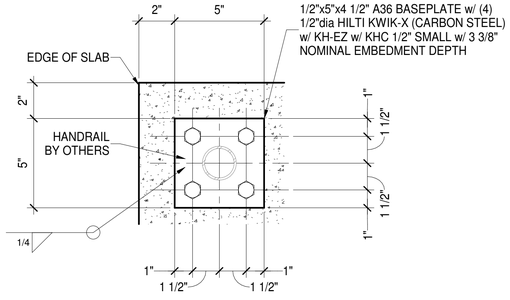


C S2.1 SECTION 3/4" = 1'-0"



D S2.1 BASEPLATE DETAIL 3" = 1'-0"

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MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Metro Court T 636.349.1600
St. Louis, MO 63026 F 636.349.1750
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FOUNDATION PLAN

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1. GENERAL
   A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, AND ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL BE PART OF THESE SPECIFICATIONS.
   B. THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.
   C. THE TERM "CONTRACTOR" AS USED HEREIN MEANS ANY CONTRACTOR OR SUBCONTRACTOR CONTRACTED TO PERFORM WORK INCLUDED IN AND DEFINED BY THIS SECTION.
   D. MECHANICAL WORK SHALL BE PROVIDED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE, NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE LOCAL ORDINANCES, STATE LAWS AND FEDERAL LAWS.

2. PRIOR TO BIDDING:
   A. THOROUGHLY REVIEW THE BID INSTRUCTIONS INCLUDING ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEP CONSTRUCTION DOCUMENTS. OBTAIN AND THOROUGHLY EXAMINE THE MANUFACTURER'S'S WRITTEN INSTALLATION INSTRUCTIONS, DETAILS, AND REQUIREMENTS FOR THE SCHEDULED AND SPECIFIED EQUIPMENT AND MATERIALS. FOR AMBIGUOUS, CONTRADICTORY, OR CONFLICTING ITEMS WITHIN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL REQUEST CLARIFICATION IN A WRITTEN "REQUEST FOR INFORMATION" (RFI), AT LEAST FIVE (5) WORKING DAYS PRIOR TO BID DATE. RFI NOT CLARIFIED PRIOR TO BID SHALL BE PROVIDED PER THE ARCHITECT (ENGINEER) IN STRICT ACCORDANCE WITH THE MOST STRINGENT MATERIALS, EQUIPMENT, AND SCOPE OF WORK.
   B. EXISTING CONDITIONS: THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO CASE ENGINEERING AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO: EXISTING HVAC SYSTEM LOCATIONS, EXISTING DUCT AND PIPING LAYOUTS, CLEARANCES, ETC. REPORT IN WRITING ANY DISCREPANCIES TO THE ARCHITECT (ENGINEER) AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO BID. DISCREPANCIES NOT CLARIFIED PRIOR TO BID SHALL BE PROVIDED PER THE ARCHITECT (ENGINEER) IN STRICT ACCORDANCE WITH THE MOST STRINGENT MATERIALS, EQUIPMENT, AND SCOPE OF WORK.
   C. IF THE CONTRACTOR BELIEVES THE DRAWINGS AND SPECIFICATIONS CONFLICT WITH CODE REQUIREMENTS, IMMEDIATELY NOTIFY THE ARCHITECT (ENGINEER) IN WRITING.
   D. NO ALLOWANCES WILL BE MADE DUE TO CONTRACTOR'S UNFAMILIARITY WITH THE CONSTRUCTION DOCUMENTS OR FOR THEIR FAILURE OF THE CONTRACTOR TO OBTAIN CLARIFICATIONS PRIOR TO BID.
   E. VISIT THE JOB SITE AND THOROUGHLY INVESTIGATE CONDITIONS. THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
   F. REFER TO APPLICABLE CODES CITED IN CONSTRUCTION DOCUMENTS, EXAMINE GOVERNING STATE AND LOCAL CODES, AND LOCAL REGULATIONS AND ORDINANCES, AND PROVIDE ALL EQUIPMENT AND INSTALLATION IN STRICT ACCORDANCE WITH SAME.
   G. REFER TO CONSTRUCTION DOCUMENTS FOR SCHEDULED AND SPECIFIED MATERIALS AND EQUIPMENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS.

3. BIDDING
   A. SUBMISSION OF A BID ACKNOWLEDGES THAT THE CONTRACTOR HAS REVIEWED THE BID INSTRUCTIONS, HAS VISITED THE SITE, EXAMINED ALL CONSTRUCTION DOCUMENTS, AND AGREES TO ALL ITEMS AND CONDITIONS WITHIN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR'S BID SHALL INCLUDE ALL MECHANICAL WORK IN THE CONSTRUCTION DOCUMENTS, INCLUDING MECHANICAL WORK RELATED TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS.

4. PERMITS
   A. SECURE AND PAY FOR ALL PERMITS, LICENSES, AND INSPECTIONS REQUIRED BY THE AHJ FOR THIS WORK.

5. SUBSTITUTIONS
   A. MANUFACTURERS' EQUIPMENT AND MATERIALS SCHEDULED, NOTED, AND SPECIFIED IN THE CONSTRUCTION DOCUMENTS ARE THE DESIGN STANDARD. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT OR ENGINEER. IN BIDDING, DO NOT ASSUME ACCEPTANCE OF SUBSTITUTIONS. CONTRACTOR MUST STATE IN SUBSTITUTION REQUEST: "PROPOSED SUBSTITUTIONS ARE EQUAL OR OF HIGHER QUALITY, EFFICIENCY AND DEPENDABILITY COMPARED TO THE SPECIFIED EQUIPMENT AND MATERIAL. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO SUBSTITUTIONS." IF DEEMED NECESSARY BY THE ARCHITECT OR ENGINEER, SUBSTITUTIONS WHICH ARE NOT APPROVED OR NOT EQUAL TO DESIGN STANDARD SHALL BE REMOVED AND THE SCHEDULED, NOTED, AND SPECIFIED EQUIPMENT AND MATERIALS SHALL BE INSTALLED AT CONTRACTOR'S EXPENSE. SUBMITTING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO SUBSTITUTIONS.

6. SCHEDULING
   A. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION, AS SCHEDULED BY THE GC. PROVIDE COMPLETE INFORMATION AND FULL COOPERATION WITH OTHER CONTRACTORS AND TRADES, AS REQUIRED FOR THE TIMELY COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
   B. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY AHJ.
   C. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE PROJECT COMPLETION.

7. SCOPE
   A. PROVIDE PERMIT(S), INSPECTIONS, FINAL CERTIFICATE(S) OF INSPECTION BY AHJ, PERMIT AND INSPECTION FEES, AND ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE AND FULLY OPERATING HVAC SYSTEM.
   B. INSTALL ALL WORK AND EQUIPMENT RIGID, DEAD LEVEL, PLUMB, AND TRUE-TO-LINE. UNLESS NOTED OTHERWISE, SUPPORT AND MOUNTING OF EQUIPMENT, DUCT, PIPING, ETC., ARE THIS CONTRACTOR'S MEANS AND METHODS. THE CONTRACTOR SHALL UNDERSTAND THE SPECIFIED AND SCHEDULED EQUIPMENT AND MATERIALS AND MEANS AND METHODS OF INSTALLATION. THIS CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR PROPER SUPPORT WHETHER SHOWN ON THE DRAWINGS OR NOT. IF SUPPORTS ARE REQUIRED, CONTRACTOR SHALL SUBMIT DRAWINGS TO THE ARCHITECT FOR APPROVAL.
   C. PROVIDE ACCESSORY MOUNTING HARDWARE INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, STRUT SYSTEMS, ALL THREAD RODS, AND BRACES, AS REQUIRED TO MOUNT EQUIPMENT. PROVIDE STEEL SHAPES AND FRAMES TO SUPPORT EQUIPMENT WHERE NEEDED. ALL SYSTEMS SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATION.
   D. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' PRINTED INSTALLATION AND MAINTENANCE LITERATURE. COMPONENTS REQUIRING PERIODIC MAINTENANCE OR ADJUSTMENTS SHALL BE INSTALLED AS TO PERMIT ACCESS WITHOUT DAMAGE TO STRUCTURE, FINISHES, OR OTHER EQUIPMENT.
   E. DEMOLITION: REFER TO THE ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF DEMOLITION. THIS CONTRACTOR SHALL DISCONNECT AND CAREFULLY REMOVE ALL EXISTING HVAC EQUIPMENT LOCATED IN DEMOLISHED AREAS INCLUDING ROOF, PLENUMS, CEILINGS, WALLS, AND FLOORS. U.N.O., DISCONNECT AND REMOVE EXISTING HVAC SYSTEMS COMPLETE, INCLUDING EQUIPMENT, CURBS, DUCTS, INSULATION, AIR DEVICES, AND PIPING LOCATED IN THESE AREAS. ALL HVAC SYSTEM COMPONENTS INCLUDING AIR TERMINAL UNITS, FANS, MOTORS, CONTROL DEVICES AND SENSORS, DAMPERS, ACTUATORS, HANGERS, RESTRAINTS, MOUNTING HARDWARE, ETC., SHALL BE REMOVED AND LEGALLY DISPOSED OF BY THIS CONTRACTOR.
   F. UNLESS NOTED OTHERWISE, ABANDONMENT IN PLACE (AIP) IS NOT ACCEPTABLE. UNUSED EQUIPMENT, DUCT, PIPING, AND OTHER COMPONENTS WITHIN OR SERVING THIS SPACE MUST BE COMPLETELY REMOVED TO POINT OF ORIGIN. ENDS OF SYSTEMS BEYOND GENERAL SCOPE OF DEMOLITION MAY BE ABANDONED ONLY WITH WRITTEN APPROVAL OF ARCHITECT (ENGINEER). WHERE THESE ABANDONED ENDS TERMINATE, TRIM CLEANLY AND PROPERLY CAP OR SEAL IN AN APPROVED MANNER, LEAVING TERMINATION SAFE AND SECURE BEHIND NEW FINISHES. MAINTAIN SYSTEM CONTINUITY TO HVAC SYSTEMS SERVING AREAS BEYOND GENERAL DEMOLITION, AS NEEDED. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL, MODIFICATION AND/OR REINSTALLATION OF EQUIPMENT, AS NEEDED. COMPLETION OF THIS PROJECT SHALL INCLUDE RETURNING THESE ADJACENT AREAS TO FULLY FUNCTIONING OPERATION.
   G. CONTRACTOR SHALL PROVIDE DAILY CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH GENERATED BY THIS WORK.
   H. AS-BUILT DRAWINGS: DURING CONSTRUCTION, AS WORK PROCEEDS, MAINTAIN AS-BUILT MARK-UPS OF ACTUAL INSTALLATION. AT CONSTRUCTION COMPLETION AND PRIOR TO TURNOVER TO OWNER (TENANT), PROVIDE FINAL MARK-UPS IN PDF FORMAT TO ARCHITECT AND ENGINEER.
   I. PROVIDE FINAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS, AS NOTED (GAS FIRED EQUIPMENT, COMMERCIAL KITCHEN EQUIPMENT, ETC.).
   J. DO NOT ROUTE ANY PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS.
   K. UNLESS NOTED OTHERWISE, ALL DUCT AND PIPE SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALLS, BEAMS, OR COLUMNS. PIPE SHALL BE RUN AS DIRECT AS POSSIBLE - AVOID UNNECESSARY OFFSETS AND MAXIMIZE HEADROOM.
   L. PRIOR TO ORDERING EQUIPMENT, THIS CONTRACTOR SHALL PROVIDE FINAL COORDINATION OF ELECTRICAL POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
   M. CONTRACTOR SHALL MAINTAIN ACTIVITIES WITHIN AREA APPROVED BY OWNER OR GC. CONTRACTOR'S ACTIVITIES SHALL NOT INTERFERE WITH THE OWNER'S OPERATIONS, EXCEPT AS APPROVED.
   N. EXCEPT THOSE COORDINATED AND APPROVED BY THE G.C., CONTINUITY OF ALL BUILDING SERVICES AND UTILITIES SERVING BUILDING FACILITIES SHALL BE MAINTAINED UNINTERRUPTED AT NO ADDITIONAL COST. PROVIDE ALL NECESSARY CROSS CONNECTIONS AND TEMPORARY CONNECTIONS REQUIRED TO PERFORM THE CONSTRUCTION, AS DETERMINED BY THE G.C., AND NEEDED TO MAINTAIN CONTINUITY OF THE BUILDING SERVICE(S). THIS CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY AND ALL CONNECTIONS, AND/OR REARRANGEMENT OF EXISTING EQUIPMENT, PIPING, ETC., SHALL ASSURE FULL RESUMPTION OF SERVICE(S) AT THE G.C.'S DESIGNATED TIME.

8. CODE REQUIREMENTS
   A. ALL WORK SHALL COMPLY WITH THE CONSTRUCTION DOCUMENTS OR, AS DIRECTED BY THE ARCHITECT (ENGINEER), AND SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF THE AHJ, WHETHER SO SHOWN OR NOT. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE THE WORK COMPLIES WITH ALL LOCAL, STATE AND FEDERAL CODES, TRADE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. IF CONTRACTOR BELIEVES THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH CODE REQUIREMENTS, IMMEDIATELY NOTIFY THE G.C. IN WRITING. DO NOT INSTALL WORK NOT COMPLYING WITH CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. AS A MINIMUM STANDARD, CONTRACTOR SHALL SATISFY CODE REQUIREMENTS. ALL MODIFICATIONS REQUIRED BY AHJ SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, CONTRACTOR SHALL NOTIFY ARCHITECT (ENGINEER).

9. CUTTING & PATCHING
   A. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR EQUIPMENT, PIPE, OR DUCTWORK. PRIOR TO CUTTING, PERFORM NON-DESTRUCTIVE TESTING TO VERIFY LOCATION OF STRUCTURAL COMPONENTS. NOTIFY ARCHITECT (ENGINEER) OF ANY DISCREPANCIES. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACE AND READY TO RECEIVE FINISH. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING. ALL ROOF WORK SHALL MEET WARRANTY REQUIREMENTS OF EXISTING ROOFING. COORDINATE REQUIRED OPENINGS AND PENETRATIONS WITH THE GC AND OTHER TRADES. (OPENINGS IN FOUNDATIONS, FLOORS, WALLS, CEILINGS, AND ROOF SHALL BE BUILT INTO THE STRUCTURE WITH SLEEVES, CURBS, ETC.)

10. FIRE STOPPING
   A. PROVIDE FIRE STOPPING FOR PENETRATIONS OF DUCT, PIPING, AND OTHER MECHANICAL EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES), AND VERTICAL SERVICE SHAFT WALLS AND PARTITIONS. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF CONSTRUCTION BEING PENETRATED. INSTALL IN STRICT ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY, AHJ, AND MANUFACTURER'S SPECIFIED REQUIREMENTS. ONLY TESTED FIRESTOP SYSTEMS BY "3M", "HILTI", OR EQUAL SHALL BE USED. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATING.

11. MATERIALS AND WORKMANSHIP
   A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE NEW U.N.O., FREE OF DEFECTS, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS, AND INDEPENDENTLY TESTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY - UNDERWRITERS LABORATORIES (UL) OR INTERTEK (ETL). ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY U.N.O.
   B. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. ALL MATERIALS INSTALLED IN PLENUM SPACES SHALL BE LISTED AND LABELED FOR SUCH APPLICATION.
   C. ALL WORK SHALL BE SUPERVISED BY THE INSTALLING CONTRACTOR'S COMPETENT AND SKILLED FOREMAN. ALL WORK SHALL BE PERFORMED BY COMPETENT AND SKILLED WORKERS, WITH ALL TRADE AND MANUFACTURER REQUIRED TRAINING, AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE AND IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS, INCLUDING APPLICABLE OSHA REGULATIONS. PROPERLY PROTECT WORK DURING CONSTRUCTION. AT CONSTRUCTION COMPLETION, THOROUGHLY CLEAN WORK AND REMOVE ALL DEBRIS FROM THE PREMISES.

12. PROTECTION OF WORK AND PROPERTY
   A. PROTECT ALL WORK FROM DAMAGE AND PROTECT THE OWNER'S PROPERTY FROM DIRT, DAMAGE, OR LOSS ARISING FROM CONTRACTOR WORK.
   B. COMPLY WITH OSHA REQUIREMENTS AND TAKE ALL NECESSARY PRECAUTIONS FOR EMPLOYEE SAFETY.
   C. PROTECT ALL OPEN PIPING, DUCT, AND EQUIPMENT, EXISTING AND NEW FROM CONSTRUCTION DIRT AND DUST. COVER, CAP, OR PLUG OPEN ENDS OF PIPING AND DUCT. KEEP EQUIPMENT CLOSED OR COVER AND SEAL EQUIPMENT OPENINGS. ANY MECHANICAL SYSTEMS, NEW AND/OR EXISTING OPERATED DURING CONSTRUCTION SHALL BE PROTECTED BY COVERING EACH RETURN AIR DUCT OPENING WITH MERV 8 FILTERS AND INSTALLING MERV 8 FILTER(S) IN EQUIPMENT FILTER RACK. PRIOR TO TESTING AND BALANCING, REMOVE FILTERS FROM FILTER RACKS AND INSTALL NEW MERV 8 FILTERS.
   D. AT COMPLETION OF WORK, PRIOR TO EQUIPMENT START-UP, REMOVE COVERS, CAPS, OR PLUGS ON DUCT AND PIPING.

13. DAMAGE BY LEAKS
   A. THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO THE PROPERTY (GROUNDS, WALKS, ROADS, BUILDING COMPONENTS, FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS, HVAC SYSTEMS, AND THEIR EQUIPMENT AND CONTENT) CAUSED BY LEAKS IN THE SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED AS PART OF THIS WORK. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

14. DRAWINGS AND SPECIFICATIONS
   A. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW GENERAL LOCATIONS OF DUCTS, PIPES, AND EQUIPMENT AND THE METHODS OF CONNECTING AND CONTROL. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS AND THE WORK OF OTHER TRADES PERMIT. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR ALL OFFSETS, TRANSITIONS, OR FITTINGS REQUIRED FOR A COMPLETE SYSTEM NOR IS IT IMPLIED THAT ALL CONFLICTS BETWEEN BUILDING ELEMENTS AND/OR OTHER TRADES ARE INDICATED. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF DOORS, WINDOWS, LIGHTS, ETC.
   B. THE DRAWINGS AND SPECIFICATIONS ARE MUTUALLY COMPLEMENTARY, AND ANY WORK REQUIRED BY ONE BUT NOT BY THE OTHER SHALL BE REQUIRED BY BOTH.
   C. PRIOR TO INSTALLING EQUIPMENT, DUCT, OR PIPE COORDINATE PROPOSED LOCATIONS WITH EACH TRADE/DISCIPLINE AND GC. EXAMINE EACH DISCIPLINE'S DRAWINGS FOR CONSTRUCTION DETAILS, CEILING HEIGHTS, REQUIRED CLEARANCES, AND SPACE CONSTRAINTS. PROVIDE SYSTEMS INSTALLATION BASED ON THIS EXAMINATION AND COORDINATION. IMMEDIATELY REPORT INSTALLATION CONFLICTS IN WRITING TO THE GC. RESOLVE ALL CONFLICTS WITH GC AND OTHER TRADES PRIOR TO PROCEEDING. INSTALLING CONTRACTOR IS FULLY RESPONSIBLE FOR CORRECT INTERPRETATION AND APPLICATION OF ALL SIZES AND DIMENSIONS.
   D. SIGNIFICANT DEVIATIONS OR CHANGES FROM THE DRAWINGS, WHICH ARE REQUIRED TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS MUST BE REVIEWED AND APPROVED BY THE ARCHITECT (ENGINEER) BEFORE PROCEEDING. IF THE CONTRACTOR BELIEVES CHANGES TO THE CONTRACT DRAWINGS ARE NECESSARY, SHOP DRAWINGS WITH WRITTEN DESCRIPTIONS OF THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE ARCHITECT (ENGINEER) FOR APPROVAL.
   E. ALL PIPE, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED WATERPROOF. PROVIDE ALL FLASHING FOR PIPE AND DUCTWORK PENETRATING BUILDING ENVELOPE. PROVIDE DUCT AND/OR PIPE SLEEVES AT WALL PENETRATIONS. SEAL ANNULAR SPACE WEATHER TIGHT.

15. CONTROLS
   A. PROVIDE COMPLETE EQUIPMENT CONTROLS, INCLUSIVE OF ALL COMPONENTS, VOLTAGES, PROGRAMMING, (PNEUMATIC TUBING), WIRING ETC. FOR COMPLETE AND OPERATIONAL SYSTEMS. MOUNT THERMOSTATS AND SWITCHES 4'-0" ABOVE FINISHED FLOOR. MOUNT OTHER SENSORS (HUMIDITY, CO2, CO, NOX, ETC.) PER MANUFACTURER'S IOM. PRIOR TO MOUNTING, COORDINATE THERMOSTAT LOCATION(S) WITH FINAL FIXTURES AND EQUIPMENT. DO NOT MOUNT THERMOSTATS IN DIRECT SUNLIGHT, IN DISCHARGE OF SUPPLY GRILLE(S), NEAR HEAT PRODUCING APPLIANCES OR EQUIPMENT, ON WALLS WITH INTERNAL HEAT SOURCES (DUCT OR PIPING), OR ON EXTERIOR WALLS. IF EXTERIOR WALL MOUNTING IS NECESSARY, PROVIDE INSULATED MOUNTING BASE. WHERE THERMOSTAT LOCATION IS SUBJECT TO DAMAGE, PROVIDE LOCKABLE HIGH-IMPACT GUARD.

16. PIPING
   A. IN FINISHED AREAS, ALL PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
   B. SEE PIPE SCHEDULE FOR PIPE MATERIALS AND PIPE INSULATION.
   C. DO NOT INSTALL PVC PIPING IN PLENUM AREAS.
   D. BRANCH TAKE-OFFS SHALL BE MADE WITH SWING CONNECTIONS AS REQUIRED TO AVOID STRESS AT THESE POINTS.
   E. DO NOT INSTALL ANY PIPING ABOVE ELECTRICAL PANELS AND/OR TRANSFORMERS.
   F. LABEL PIPE PER BUILDING STANDARD OR AS SCHEDULED.
   G. PAINT PIPE TO MATCH OWNER'S OR BUILDING STANDARD.
   H. INSTALL AND SIZE REFRIGERANT PIPE IN STRICT ACCORDANCE WITH EQUIPMENT/APPLIANCE MANUFACTURER'S IOM. DO NOT INSTALL REFRIGERANT PIPE BELOW GROUND. REFRIGERANT PIPE INSTALLED ON BUILDING EXTERIOR SHALL BE ROUTED TO MINIMIZE EXTERIOR EXPOSURE. INSULATE REFRIGERANT PIPE PER MANUFACTURER'S IOM. PROVIDE INSULATION EXPOSED TO AMBIENT CONDITIONS SHALL WITH CONTINUOUS 30 MIL PVC JACKET.
   I. ROUTE PIPE THROUGH ROOF WITH ALUMINUM PIPE HOOD, PATE CURB MODEL "PHA-2" WITH 14" TALL MODEL "PC-2" CURB. SEAL PIPE THROUGH CURB WEATHER-TIGHT.
   J. ON HYDRONIC PIPING, PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS TO ALLOW BLEEDING OF AIR FROM THE SYSTEM, AND BALL VALVES WITH HOSE END DRAIN FITTINGS AT ALL LOW POINTS TO ALLOW DRAINING THE SYSTEM.
   K. PRIOR TO INSTALLING EQUIPMENT/APPLIANCES, CAREFULLY CONSIDER FALL REQUIREMENTS OF CONDENSATE DRAIN PIPE. PROVIDE MINIMUM 1/8" / FOOT SLOPE. EXTEND CONDENSATE DRAIN PIPE TO AN APPROVED RECEPTOR AND TERMINATE VIA AN INDIRECT CONNECTION.
   L. ALL HOLES REQUIRED THROUGH EXISTING FLOORS AND MASONRY WALLS SHALL BE CORE DRILLED.

17. DUCT MOUNTED SMOKE DETECTORS
   A. RETURN AIR DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED BY E.C. AND UPON DETECTING SMOKE, SHALL SHUT DOWN PROTECTED AIR SYSTEM (APPLICABLE TO UNITS >2000 CFM).

18. SHOP DRAWINGS
   A. SUBMIT SHOP DRAWINGS ON SCHEDULED AND NOTED EQUIPMENT AND MATERIALS. PRIOR TO SUBMITTAL, EACH SHOP DRAWING SHALL BE REVIEWED BY THE CONTRACTOR TO ASSURE THAT THE PROPOSED EQUIPMENT IS CLEARLY MARKED, HIGHLIGHTED, AND NOTED. ALL DIMENSIONS, QUANTITIES, CONNECTIONS, CAPACITATES AND ACCESSORIES SHALL BE CLEARLY SHOWN IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND SHALL BE MARKED OR STAMPED TO CONFIRM THAT SUCH REVIEW WAS MADE AND COMPLIANCE WAS CONFIRMED. SHOP DRAWING SUBMITTED WITHOUT BEING MARKED, HIGHLIGHTED, AND NOTED WILL BE REJECTED WITHOUT REVIEW.
   B. PROVIDE ADEQUATE TIME FOR REVIEW AND CORRECTIONS, IF ANY, TO PREVENT CONSTRUCTION DELAY.
   C. REVIEW OF SHOP DRAWINGS BY THE OWNER, OWNER'S AGENT, ARCHITECT, OR ENGINEER IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBILITY FOR COMPLYING WITH ALL TERMS OF THE CONTRACT DOCUMENTS AND FOR PERFORMANCE OF ALL EQUIPMENT AND MATERIALS PURCHASED, FOR QUANTITIES, PROPER FIT, AND OTHER DIMENSIONAL REQUIREMENTS.

19. DUCTWORK
   A. REFER TO DUCT INSULATION SCHEDULE FOR CLARIFICATION OF DUCT DIMENSIONS. PROVIDE ALL DUCTWORK IN STRICT ACCORDANCE WITH THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", LATEST EDITION. U.N.O. ALL RIGID DUCTWORK SHALL BE GALVANIZED SHEET METAL. NO FIBERGLASS DUCTBOARD WILL BE ALLOWED. ALL EXPOSED DUCTWORK SHALL HAVE A MILL-PHOSPHATIZED FINISH FOR PAINT ADHESION. EXPOSED ROUND DUCT SHALL BE SPIRAL SEAM TYPE.
   B. REMOVE UNUSED SECTIONS OF DUCTWORK AS DESIGNATED. UNUSED OPENINGS IN EXISTING DUCT SHALL BE SEALED WITH GALVANIZED SHEET METAL OF THE SAME GAUGE AS THE DUCT. INSULATE AND/OR LINE WITH INSULATION TO MATCH EXISTING. SEAL GALVANIZED SHEET METAL CAP TO EXISTING DUCT WITH APPROVED MASTIC. EXISTING DUCT INSULATION AND/OR INSULATION SCRIM DAMAGED BY THIS WORK SHALL BE REPAIRED. SEAL ALL INSULATION SEAMS AND JOINTS.
   C. PROVIDE DAMPERS AT EACH BRANCH DUCT SERVING AIR DEVICES AND AS SHOWN AND DETAILED. ALL FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE MKE, MAXIMUM 8'-0" LONG. FLEXDUCT SHALL BE INSTALLED IN ACCESSIBLE CONCEALED SPACES ONLY AND WITHOUT SAGS. INSTALLATION ABOVE INACCESSIBLE CEILINGS IS UNACCEPTABLE.

20. DUCT SEALING
   A. IN CONDITIONED AREAS, SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, WITH VOC CONTENT NO GREATER THAN 250G/L AND RECOMMENDED BY THE MANUFACTURER FOR SEALING SHEET METAL DUCT. SEAL ALL JOINTS, SPIN-IN FITTINGS, AND FASTENING SCREWS WITH MASTIC. HVAC SYSTEM LEAKAGE SHALL NOT EXCEED 5% OF DESIGN FLOW.
   B. IN UNCONDITIONED AREAS (INCLUDING BUT NOT LIMITED TO EXTERIOR OF BUILDING, ATTIC, CRAWL SPACES, ETC.): SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH CARLISLE'S "HARDCAST FOIL-SEALANT DUCT SEALING SYSTEM" - NO EXCEPTIONS. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE INITIAL SEALANT OF HARDCAST'S IRON-GRIP 601, SPRAY-SEAL, OR VERSA-GRIP 181 LIQUID MASTIC SEALANT. AFTER SEALANT HAS CURED COMPLETELY, OVERLAY THE MASTIC WITH 4" WIDE STRIP OF AFT-701 ROLLED SEALANT. SEAL ALL JOINTS, SPIN-IN FITTINGS, AND FASTENERS. HVAC SYSTEM LEAKAGE SHALL NOT EXCEED 5% OF DESIGN FLOW.

22. DUCT INSULATION
   A. SEE DUCT INSULATION SCHEDULE.

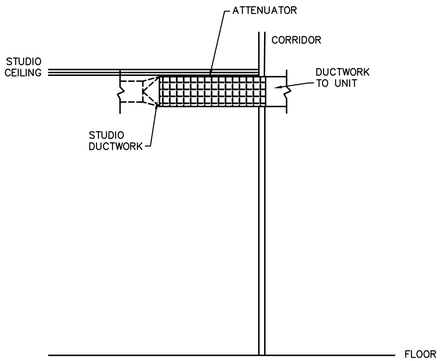
23. EQUIPMENT
   A. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION AND OPERATIONS MANUAL AND IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
   B. U.N.O. PROVIDE ALL MOTORIZED EQUIPMENT WITH VIBRATION ISOLATION MOUNTING AND FLEXIBLE DUCT AND FLEXIBLE PIPE CONNECTIONS.
   C. LABEL EQUIPMENT WITH ENGRAVED PHENOLIC RESIN NAMEPLATES ADHERED TO UNIT CABINET WITH RTV SILICONE. LETTERING SHALL BE 1" HIGH BLACK ON WHITE BACKGROUND.
   D. ALL EQUIPMENT, DUCT, PIPE, ETC. MOUNTED FROM BOLTED CONNECTIONS SHALL HAVE DOUBLE NUTS AT ATTACHMENT TO STRUCTURE AND HANGER, NO EXCEPTIONS.

24. FIRE AND FIRE-SMOKE DAMPERS
   A. PROVIDE FIRE DAMPERS AND/OR FIRE SMOKE DAMPERS AT DUCT PENETRATIONS OF RATED ASSEMBLIES AND AS REQUIRED BY AHJ. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS. INSTALL DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILS AND MAINTAIN MANUFACTURER'S DETAILS ONSITE FOR AHJ REVIEW. PROVIDE ACCESS PANELS OF ADEQUATE SIZE TO FACILITATE SERVICE ACCESS OF DAMPER. IN LIEU OF ACCESS PANELS, A REMOVABLE DUCT SECTION IS ACCEPTABLE.

25. OUTDOOR AIR INTAKES
   A. PROVIDE A MINIMUM (10'-0") HORIZONTAL CLEARANCE BETWEEN MECHANICAL EQUIPMENT OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGES, COMBUSTION EXHAUST, PLUMBING VENTS, AND ANY OTHER HAZARDOUS OR NOXIOUS CONTAMINANT.

26. AIR FILTERS
   A. PROVIDE THREE (3) SETS OF NEW MERV 8 DISPOSABLE AIR FILTERS, PER THE FOLLOWING: FOR HVAC SYSTEMS OPERATED DURING CONSTRUCTION, PROVID

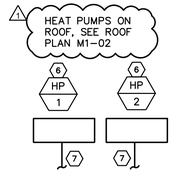
ALL DIFFUSERS LOCATED IN GYP BOARD CEILINGS SHALL HAVE FACE MOUNTED DAMPERS OR CABLE OPERATED DAMPERS SO THAT ACCESS PANELS ARE NOT REQUIRED FOR DAMPER ADJUSTMENT

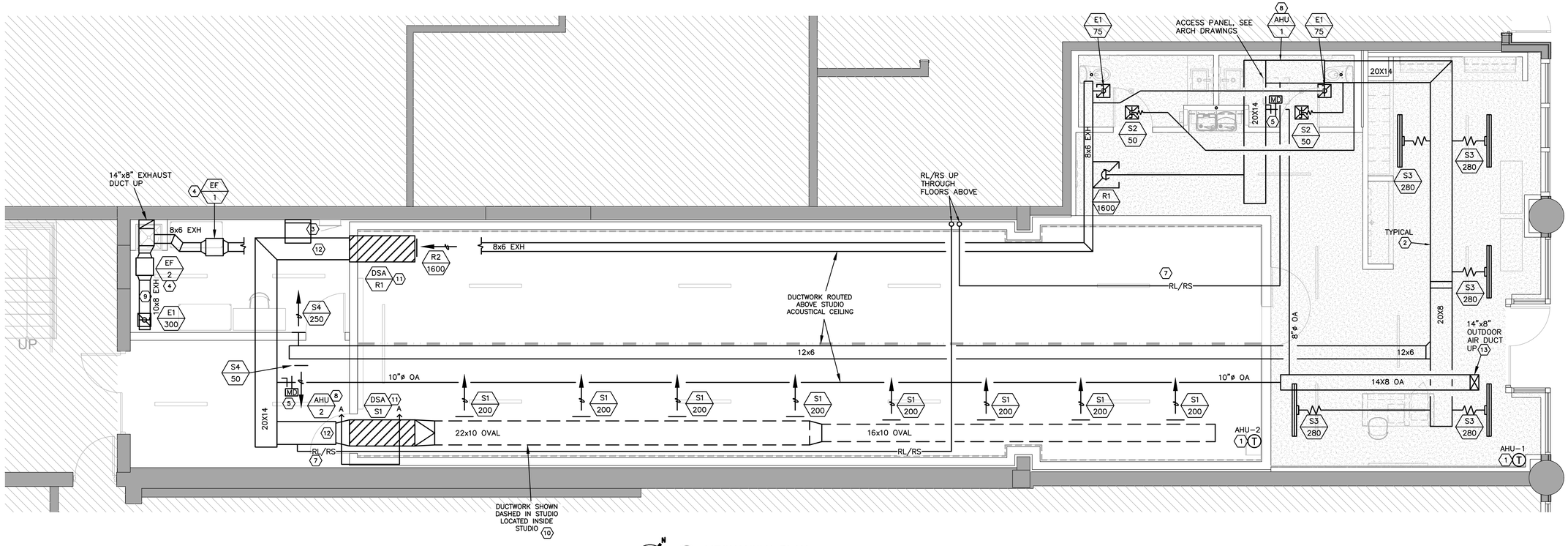


2 SECTION A-A
SCALE: NO SCALE

MECHANICAL KEYED NOTES

1. PROVIDE EMERSON SENSI TOUCH SMART THERMOSTAT FOR CONTROLLING TEMPERATURE – REFERENCE CONTROLS SEQUENCE OF OPERATIONS. PROVIDE INTERLOCKS, CONDUITS, CONDUCTORS, PROGRAMMING AND TESTING. COORDINATE EQUIPMENT LOCATIONS WITH OTHER ELEMENTS OF WALL. VERIFY LOCATION AND SETPOINTS WITH OWNER. INSTALL PER MANUFACTURERS GUIDELINES AND RECOMMENDATIONS. T–STAT TO BE BLACK MODEL IN THE STUDIO, AND WHITE MODEL IN THE LOBBY.
2. FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE CLEAR INTERNAL DIMENSIONS. ALL NEW RECTANGULAR AND SPIRAL DUCTWORK SHALL BE INSULATED WITH 2" DUCT WRAP. COORDINATE LOCATIONS WITH EXISTING CONDITIONS, LIGHTING FIXTURES, AND OTHER TRADES PRIOR TO INSTALLATION.
3. MAINTAIN ALL CODE REQUIRED CLEARANCES ABOVE ELECTRICAL PANEL.
4. FURNISH AND INSTALL INLINE EXHAUST FAN.
5. ROUTE OUTDOOR AIR DUCT FROM AIR HANDLING UNITS TO COMBINED OUTDOOR AIR DUCT. PROVIDE MOTORIZED DAMPER AND BALANCING DAMPER ON OUTDOOR AIR DUCT AT EACH UNIT. BALANCE DAMPER SHALL BE BALANCED TO SCHEDULED OUTDOOR AIRFLOW. MOTORIZED DAMPER SHALL BE INTERLOCKED WITH THERMOSTAT TO OPEN DURING OCCUPIED MODE.
6. FURNISH AND INSTALL HEAT PUMP ON ROOF IN LOCATION AS REQUIRED BY LANDLORD. COORDINATE EXACT INSTALLATION LOCATION WITH LANDLORD REPRESENTATIVE. PROVIDE NEW RAILS AS REQUIRED FOR INSTALLATION OF UNITS.
7. ROUTE REFRIGERANT LINES FROM NEW AIR HANDLING UNITS, TO NEW HEAT PUMPS ON ROOF THROUGH NEW SHAFT ADJACENT TO WALLS ON 2ND FLOOR. VERIFY EXACT LOCATION AND ROUTE IN FIELD WITH LANDLORD REPRESENTATIVE. ALL REFRIGERANT LINES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS. REFRIGERANT LINES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. INSULATE WITH 1" ARMAFLEX INSULATION. PROVIDE FIRESTOPPING ON REFRIGERANT LINES AS REQUIRED IF PASSING THROUGH RATED CONSTRUCTION.
8. FURNISH AND INSTALL AIR HANDLING UNIT. ROUTE 1"ø CONDENSATE DRAIN LINE FROM UNIT TO INDIRECT DRAIN AT MOP SERVICE BASIN. INSULATE CONDENSATE LINE WITH 1" ARMAFLEX INSULATION. PROVIDE CONDENSATE PUMP AS REQUIRED.
9. ROUTE EXHAUST AIR FROM NEW EXHAUST FAN UP THROUGH 2ND FLOOR ADJACENT TO WALL TO NEW GOOSENECK ON ROOF. COORDINATE EXACT ROUTE AND SHAFT REQUIREMENTS WITH LANDLORD REPRESENTATIVE. IF PASSING THROUGH FIRE RATED CONSTRUCTION, PROVIDE RUSKIN DIBD2 FIRE DAMPER OR EQUAL. OUTLET MUST BE AT LEAST 10–0" FROM ALL BUILDING INTAKES.
10. ALL DUCTWORK ROUTED BELOW STUDIO CEILING SHALL BE SUPPORTED BY ISOLATED STUDIO LID.
11. FURNISH AND INSTALL SOUND ATTENUATOR AT STUDIO ACOUSTICAL WALL PENETRATION. DUCTWORK SHOWN IN STUDIO ROUTES EXPOSED BELOW ACOUSTICAL CEILING.
12. DUCTWORK SERVING STUDIO, OUTSIDE OF STUDIO ENCLOSURE, SHALL BE SUPPORTED BY SPRING ISOLATORS.
13. ROUTE OUTDOOR AIR DUCTWORK UP THROUGH ROOF TO NEW GOOSENECK. COORDINATE EXACT LOCATION AND TERMINATION WITH WITH LANDLORD REPRESENTATIVE. INTAKE MUST BE AT LEAST 10'–0" FROM ALL BUILDING EXHAUSTS.





1 MECHANICAL PLAN
SCALE: 1/4" = 1'–0"

PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WALD

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Merus Court | T 636.349.1600
St. Louis, MO 63026 | F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377
DRAWN BY: APPROVED BY:
SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

MECHANICAL PLAN

M1-01

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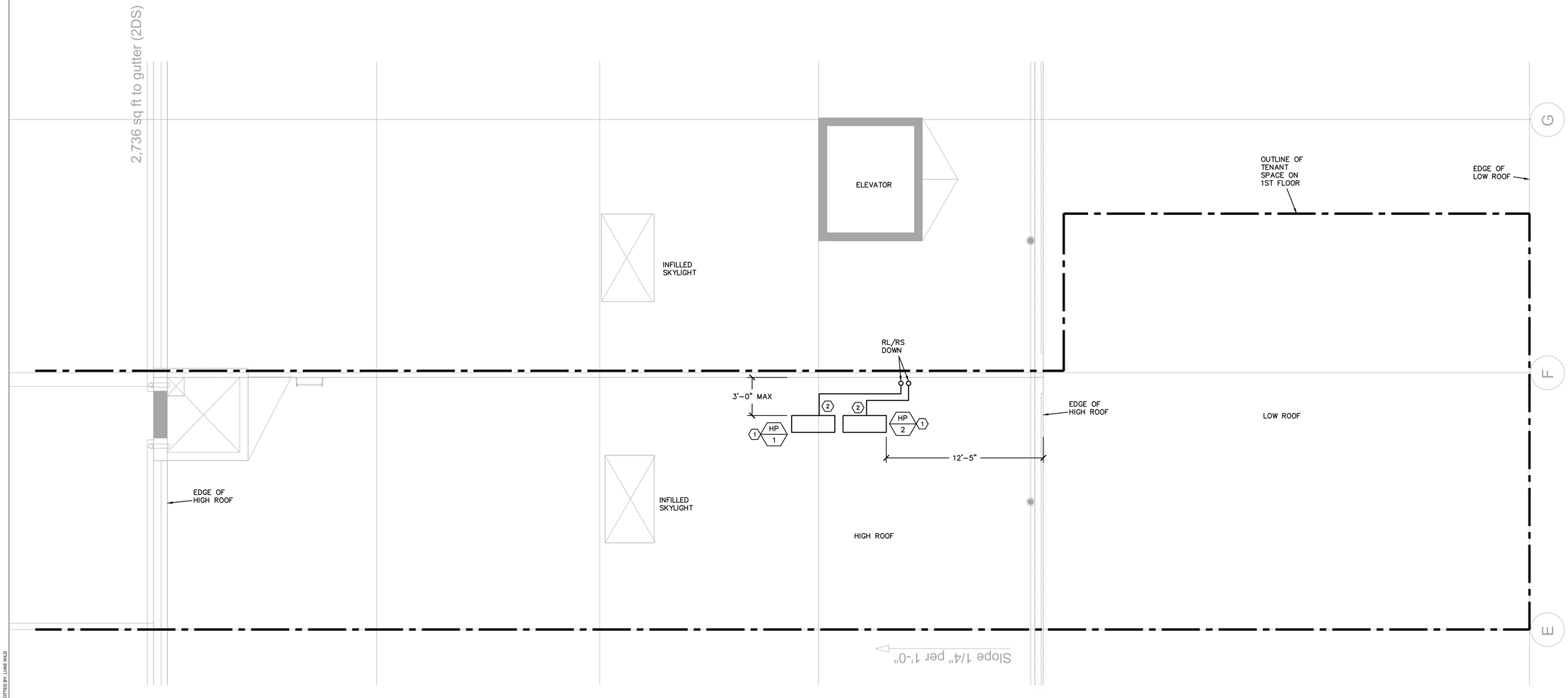
MECHANICAL KEYED NOTES

1. FURNISH AND INSTALL HEAT PUMP ON ROOF IN LOCATION AS REQUIRED BY LANDLORD. COORDINATE EXACT INSTALLATION LOCATION WITH LANDLORD REPRESENTATIVE. PROVIDE NEW RAILS AS REQUIRED FOR INSTALLATION OF UNITS.
2. ROUTE REFRIGERANT LINES FROM NEW HEAT PUMPS, DOWN THROUGH ROOF TO AIR HANDLING UNITS ON 1ST FLOOR. VERIFY EXACT LOCATION AND ROUTE IN FIELD WITH LANDLORD REPRESENTATIVE. ALL REFRIGERANT LINES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS. REFRIGERANT LINES TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. INSULATE WITH 1" ARMAFLEX INSULATION. PROVIDE FIRESTOPPING ON REFRIGERANT LINES AS REQUIRED IF PASSING THROUGH RATED CONSTRUCTION.

ENTIRE SHEET ADDED UNDER REV#1 (1)



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

PLOT DATE: 5/12/2026 11:09 AM PLOTTED BY: LUKE.WALD

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CASE Engineering Inc.
796 Metro Court, St. Louis, MO 63026 | T 636.349.1600 F 636.349.1730

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DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER

5/12/26

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MECHANICAL ROOF PLAN

M1-02

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MECHANICAL PIPE & PIPE INSULATION SCHEDULE

PIPE APPLICATION / PIPE MATERIAL	AC CONDENSATE (CD) INDOORS, NON-PLENUM SPACES	AC CONDENSATE (CD) INDOORS, (PLENUM SPACES)	REFRIGERANT (RS-L)
COPPER TUBE: (ASTM B 88, TYPE K OR L) OR ASTM B 280, TYPE ACR. WROUGHT-COPPER FITTINGS: ASME B16.22. SOLDER: ASTM B 32 USE 95-5 TIN ANTIMONY OR ALLOY HB SOLDER TO JOIN COPPER SOCKET FITTINGS ON COPPER PIPE. BRAZING METALS: AWS A5.8.	♦		
DWV COPPER TUBING: ASTM B 306, TYPE DWV. FITTINGS: WROUGHT-COPPER ASME B16.22. SOLDER: ASTM B 32, LEAD-FREE ALLOYS WITH ASTM B 813 WATER-FLUSHABLE FLUX.	♦	♦	
DWV PVC PLASTIC, SOLID WALL: ASTM D 1785, SCHEDULE 40. FITTINGS: PVC SOCKET-TYPE, ASTM D 2466.	♦		♦
DWV CPVC PLASTIC: ASTM F 441, SCHEDULE 40. FITTINGS: CPVC SOCKET-TYPE, ASTM F 438.	♦		♦
PIPE INSULATION			
PIPE DIAMETER: ALL; 1/2" THICK INSULATION		(A)	(A)
PIPE DIAMETER: ≤ 1.5"; 1-1/2" THICK INSULATION	(A)		
PIPE DIAMETER: ≥ 1.5"; 2" THICK INSULATION	(A)		
INSULATION TYPE			

(A) FLEXIBLE CLOSED-CELL ELASTOMERIC: ASTM C 534, TYPE I. NFPA 90A, 90B. EXTERIOR EXPOSURES: PROVIDE CONTINUOUS 30 MIL PVC JACKET (UV, OZONE, MOISTURE RESISTANT).

*PROVIDE APPLIANCE VENTING MATERIALS IN STRICT ACCORDANCE WITH APPLIANCE LISTING.

NOTE:
1. INSTALL ALL PIPING, PIPE INSULATION, AND JACKETING IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND PER APPLICABLE CODE AND AHJ'S REQUIREMENTS.
2. ALL MATERIALS INSTALLED IN PLENUM SPACES SHALL CONFORM WITH NFPA 90A AND NFPA 90B AND BE LABELED ACCORDINGLY.
3. DO NOT INSTALL ANY PIPING ABOVE ELECTRICAL PANELS AND/OR TRANSFORMERS.
4. LABEL PIPE PER BUILDING STANDARD OR AS SCHEDULED.
5. PAINT PIPE TO MATCH OWNER'S OR BUILDING STANDARD.

DIFFUSER NECK SIZE SCHEDULE

NECK SIZE	CFM
6"ø	0 – 99
8"ø	100 – 239
10"ø	240 – 439
12"ø	440 – 599
14"ø	600 – 999
16"ø	1000 – 1399
18"ø	1400 – 1900

AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	NOTES
S1	TITUS	300RL	ST	12"x6"	LAY-IN	14"x8"	2,3,4
S2	TITUS	OMNI	ST	SCHED.	FLANGED	12"x12"	1,2,3
S3	TITUS	ML39	ST	SCHED.	FLANGED	48"x6"	1,2,5
S4	TITUS	300RL	ST	10"x10"	FLANGED	12"x12"	2,3,4
R1	TITUS	350RL	ST	SCHED.	FLANGED	24"x24"	2,3,4
R2	TITUS	50F	ST	22"x14"	FLANGED	24"x16"	1,2,3
R3	TITUS	350RL	ST	10"x10"	FLANGED	12"x12"	1,2,3,4
E1	TITUS	50F	ST	SCHED.	FLANGED	12"x12"	1,2

1. AIR DEVICE RUN-OUT SHALL BE SAME SIZE AS DIFFUSER NECK. FLEX DUCT, MAXIMUM LENGTH 5'-0".
2. VERIFY FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING. CEILING MOUNTED AIR DEVICES TO BE BLACK.
3. PROVIDE FACE MOUNTED VOLUME DAMPER.
4. WALL/DUCT MOUNTED AIR DEVICE.
5. 3 SLOT, 1" SLOT WIDTH. PROVIDE WITH INSULATED SUPPLY PLENUM AND DISCHARGE PATTERN CONTROLLER.

AHU SCHEDULE

MARK	MFR	MODEL NO.	SUPPLY CFM	O.A. CFM	EXT. SP.	COOLING TONS	COOLING MBH TOT	COOLING MBH SENS	SUPPLY FAN HP	ELEC HEAT(2 CIRCUITS) KW	MCA	MOCP	VOLT/PHASE	ELECTRICAL AHU MCA	MOCP	VOLT/PHASE	WEIGHT LBS	REMARKS
AHU-1	TRANE	PVA-AA60	1800	180	0.8	5	60	45	–	17	39.5	40	(2)208/1	9.3	15	208/1	180	1,2,3,4
AHU-2	TRANE	PVA-AA60	1600	450	0.8	5	60	45	–	15	33.9	35	(2)208/1	9.3	15	208/1	180	1,2,3,4

1. REMOTE CONDENSING UNIT LOCATED ON ROOF. VERIFY EXACT LOCATION IN FIELD.
2. PROVIDE 30% FILTERS AND INSTALL WITH EASY ACCESS TO FILTERS.
3. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
4. PROVIDE WITH FILTER RACK, CONDENSATE PUMP, WIRED THERMOSTAT, THERMOSTAT ADAPTER.

HEAT PUMP UNIT SCHEDULE

MARK	MFR	MODEL NO.	COOLING TONS	COOLING CAPACITY MBH	AMB °F	REF. TYPE.	ELECTRICAL MCA	MOCP	VOLT/PHASE	SEER/HSPF	REMARKS
HP-1	TRANE	PUZ-AK60	5.0	60	95	R454B	38	60	208/1	18.3/8.4	1,2,3,4,5
HP-2	TRANE	PUZ-AK60	5.0	60	95	R454B	38	60	208/1	18.3/8.4	1,2,3,4,5

1. PROVIDE NEW CONDENSING ON ROOF IN LOCATION AS DIRECTED BY LANDLORD REPRESENTATIVE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW RAILS FOR CONDENSING UNIT TO BE MOUNTED ON AS REQUIRED. COORDINATE LOCATION WITH LANDLORD.
2. VERIFY PLACEMENT OF CONDENSING UNIT WITHIN 100 FEET OF AIR HANDLING UNIT. REFER TO MANUFACTURER'S SPECIFICATIONS FOR LONG LINE APPLICATIONS. REFRIGERANT LINES TO BE INSULATED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
3. PROVIDE ALL MANUFACTURER REQUIRED CLEARANCES.
4. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
5. UNIT SHALL INCLUDE HYPER HEAT AND ALL LOW AMBIENT ACCESSORIES REQUIRED FOR COOLING DOWN TO 0°F.

DUCT CONSTRUCTION SCHEDULE

DUCT SYSTEM	MATERIAL	PRESSURE CLASS W.C.	SEAL CLASS	INSULATION
LOW PRESSURE SUPPLY	STEEL	2"	A	* TYPICAL: CONCEALED DUCTWORK: R-6 DUCT WRAP EXPOSED DUCTWORK: R-6 DUCT LINER
RETURN/TRANSFER DUCTS	STEEL	2"	A	1" DUCT LINER. 10'-0" FROM THE UNIT ONLY FOR RETURN
GENERAL EXHAUST	STEEL	2"	A	(NOT REQUIRED)
EXTERIOR DUCTWORK	STEEL/ALUM	4"	A	SEE DETAIL THIS SHEET

* CONTRACTOR CAN USE 1" DUCT LINER INSTEAD OF DUCT WRAP IN CONDITION SPACES.
* CONTRACTOR CAN USE 1-1/2" ⌀ R5 DUCT LINER INSTEAD OF DUCT WRAP IN NON-CONDITION SPACES.

ALL DUCTWORK DIMENSIONS INDICATED ON THE PLANS ARE CLEAR, INSIDE DIMENSIONS. CONTRACTOR SHALL INCREASE SHEETMETAL SIZE AS REQUIRED TO ACCOMMODATE DUCT LINER.

GENERAL DUCTWORK NOTES

A. All rectangular ducts shall be 'Pittsburgh Lock' longitudinal joints. Snaplock is not acceptable.
B. All round ducts and flat oval ducts shall have spiral seams or continuously welded longitudinal seams.
C. All transverse joints in rectangular ductwork 48" and larger shall be Ductmate, SMACNA T-25, or approved equivalent. All flanged ductwork, regardless of pressure class, shall use gaskets, corner closures, and be TEK screwed or riveted on 10" centers with a minimum of two (2) per side.
D. Transverse joints in rectangular ductwork smaller than 48" shall be made in accordance with SMACNA suitable with the pressure class.
E. All transverse joints in round and oval ductwork 24" and larger shall be Ductmate, or approved equivalent. Transverse joints in round and overall ductwork smaller than 24" shall be beaded sleeve joints.

FAN SCHEDULE

MARK	MANUF.	MODEL NO.	CFM	SP	FAN HP	SONE	VOLTS/PH	WEIGHT	REMARKS
EF-1	GREENHECK	SQ-98VG	150	0.5	1/4	11.6	120/1	47	1,2,3
EF-2	GREENHECK	SQ-98VG	300	0.5	1/4	11.6	120/1	47	1,2,4

1. VERIFY ELECTRICAL VOLTAGE AND PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING UNIT.
2. PROVIDE FAN WITH FAN SPEED CONTROLLER, VIBRATION ISOLATORS AND BACKDRAFT DAMPER.
3. FAN TO OPERATE DURING ALL OCCUPIED HOURS.
4. FAN TO OPERATE 24 HOURS A DAY.

DUCT SOUND ATTENUATOR SCHEDULE

UNIT SERVED	TYPE	DIMENSIONS (IN) WIDTH	HEIGHT	LENGTH	CFM	FPM	MAX PD	MINIMUM DYNAMIC INSERTION LOSS (dB) 63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ	MANUFACTURER AND MODEL	REMARKS
DSA-S1	RECT	24	10	5'	1600	900	0.08	4	9	17	34	42	33	22	14	IAC TYPE 5MS	1-5
DSA-R1	RECT	24	10	5'	1600	900	0.08	5	10	19	36	43	31	19	10	IAC TYPE 5MS	1-5

1. OTHER APPROVED MANUFACTURERS INCLUDE VIBRO-ACOUSTICS AND PRICE.
2. COORDINATE FOR PLENUM CLEARANCE AND DUCTWORK CONNECTION COMPATIBILITY.
3. TURBULENCE DUE TO ORIENTATION SHOULD BE MINIMIZED WHERE POSSIBLE WHILE RETAINING MINIMUM INSERTION LOSS.
4. MAX PD IS THE CATALOGED PRESSURE DROP, WHICH IS UNDER IDEAL TEST CONDITIONS. SYSTEM EFFECTS AND FIELD CONDITIONS MAY RESULT IN LARGER REALIZED PRESSURE DROPS.
5. 18 GAUGE CASING.

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DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

5/12/26

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SHEET TITLE & NUMBER

MECHANICAL SCHEDULES

M2-01

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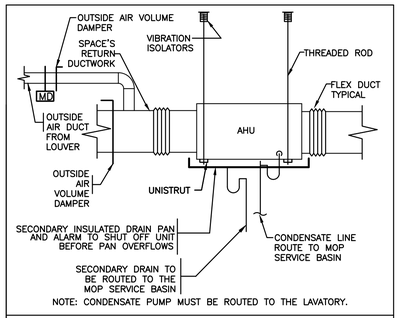

AIR HANDLING UNIT DETAIL
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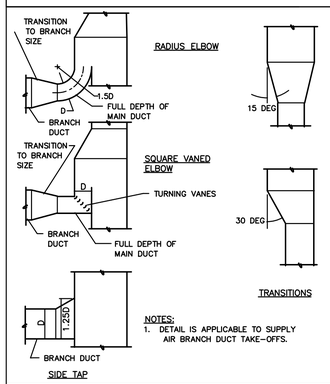

BRANCH DUCT TAKEOFFS AND TRANSITIONS
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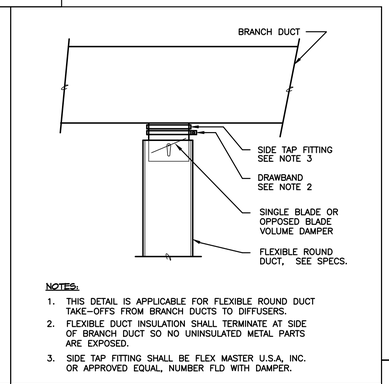

FLEXIBLE DUCT CONNECTION TO BRANCH
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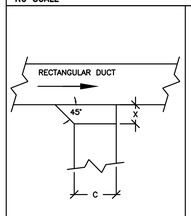

C	X
3 THRU 8	3
9 THRU 16	6
17 THRU 24	9
25 AND UP	12

RECTANGULAR TAP DETAIL
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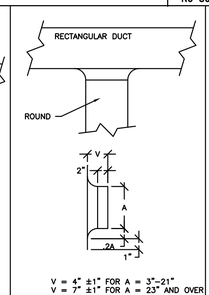

BELLMOUTH TAP DETAIL
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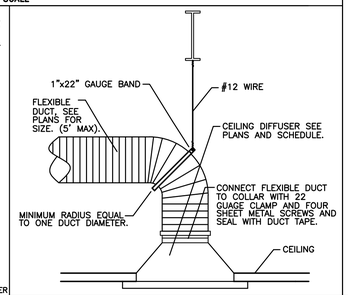
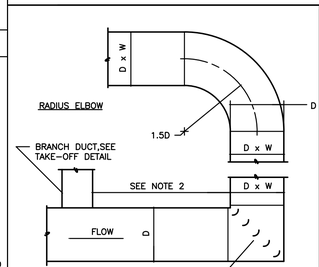


DIFFUSER INSTALLATION DETAIL
NOT TO SCALE



DUCT ELBOW
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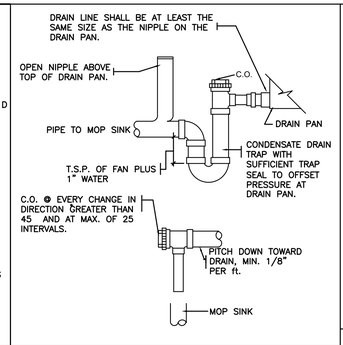

CONDENSATE DRAIN TRAP DETAIL
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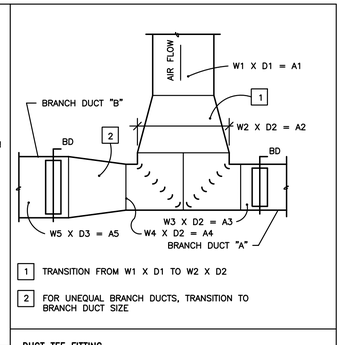

DUCT TEE FITTING
NO SCALE

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796 Meramec Court | T 636.349.1600
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PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE.WILD

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2017 DC Energy Code
Project Title: Solidcore - Union Market
Location: Washington, District of Columbia
Climate Zone: 4a
Project Type: New Construction

Construction Site:
1326 5th Street
Northeast, District of Columbia
20002

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity **System Type & Description**

2 HP-1,2 AHU-1,2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 66 kBtu/h,
Proposed Efficiency = 8.40 HSPF, Required Efficiency = 7.70 HSPF
Cooling Mode: Capacity = 60 kBtu/h, , No Economizer , Economizer exception: High Efficiency Equipment
Proposed Efficiency = 19.30 SEER, Required Efficiency = 18.46 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 1600 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2017 DC Energy Code requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MATTHEW CASE : 3/6/26
Name - Title Date

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER
3/6/26

COMcheck Software Version COMcheckWeb
Inspection Checklist
Energy Code: 2017 DC Energy Code

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
8.4.3 [PR15]¹	All forms of energy delivered to, produced by, and/or reclaimed by the building or building site are metered and all energy load types measured in accordance with Section 8.4.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 6.4.4.2.1, 6.7.2 [PR2]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Applicable	Requirement will be met.
8.1.5 [PR86]¹	ADR infrastructure is in place. An ADR client software and ADR strategy are available.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*
8.1.5.2 [PR87]¹	An ADR strategy is available for reducing HVAC demand by >= 10%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
6.7.2.4 [PR5]¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
6.4.3.7 [FO9]¹	Freeze protection and snow/ice melting system sensors for future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1]¹	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:____	Efficiency:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
6.4.3.4.1 [ME3]¹	Stair and elevator shaft vents have motorized dampers that automatically close.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3 [ME4]¹	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.4.5 [ME39]¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.3.4.4 [ME5]¹	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.8, 6.4.3.8.1 [ME80]¹	Demand control ventilation provided for densly occupied spaces served by systems with air side economizer, auto modulating outside air damper control, or design airflow > 1,000 cfm. DCV designed to comply with Section 6.2.7 of ASHRAE Standard 62.1-2013. Occupancy assumptions are shown in design documents for spaces with DCV. All CO2 sensors for dynamically controlled outdoor air systems comply with Section 6.4.3.8.1.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*
6.4.1.1.1 [ME81]¹	Equipment complies with Section 13.1.1.2 and ENERGY STAR heating and cooling requirements from Section 10.11.2.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*
6.4.1.1.2 [ME82]¹	Heat pump is included as primary heating for spaces heated and cooled by unitary systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
6.5.6.3 [ME83]¹	Supermarket with >= 25,000 sq ft. recovers waste heat from condenser heat rejection and/or HVAC equipment using either >= 25% of the refrigeration system full-load total heat rejection or 80% of the space heat, service water heating, and dehumidification heat. If detailed on refrigeration system, does not increase the saturated condensing temperature >= 5 deg. F.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.12 [ME85]¹	Hotels and motels with >= 50 guest rooms have automatic HVAC controls in each room. Controls are used to manage temperature setpoint, manage ventilation in accordance with Section 6.5.12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
6.4.3.8 [ME6]¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >1,000 cfm.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Systems with a design outdoor airflow less than 1200 cfm.
6.5.3.2.1 [ME40]¹	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling units motor hp >= 5 hp shall vary indoor fan airflow as a function of load and comply with operational requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Mechanical Systems list for values.*
6.4.4.1.1 [ME7]¹	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.1.2 [ME8]¹	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.1.3 [ME9]¹	HVAC piping insulated. Where piping is installed, including branch piping and piping connected to a coil in a slab, verification may need to occur during Foundation Inspection.	____ in.	____ in.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.1.4 [ME41]¹	Thermaly ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.4.4.2.1 [ME10]¹	Ducts and plenums sealed based on static pressure and location.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11]¹	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.2.3 [ME19]¹	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.2.4.1 [ME68]¹	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.4.2 [ME69]¹	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated >= R-0.5.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.2.5 [ME70]¹	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.3.5 [ME72]¹	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also permanently split capacitor, ball-bearing or remote control.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.3.3 [ME42]¹	Multiple zone VAV systems with ODC of individual zone boxes have static pressure setpoint reset controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values.*
6.5.4.2 [ME25]¹	HVAC pumping systems >10 hp designed for variable fluid flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.5.6.1 [ME56]¹	Exhaust air energy recovery systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2. Energy recovery systems have >= 60% energy recovery effectiveness. Provisions are in place to permit air economizer operation as per Section 6.5.1.1.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.1.1 [ME32]¹	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.1.2 [ME44]¹	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.7.1.5 [ME49]¹	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.8.1 [ME34]¹	Unenclosed spaces that are heated use only radiant heat.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 [ME63]¹	Heating for vestibules and air curtains include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating systems controlled by a thermostat in the vestibule with setpoint <= 60F.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
6.5.10 [ME73]¹	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Building entrances have automatic closing devices.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]¹	One 125-volt 15- and 20- amp duplex receptacle is in each private office and individual workstations located at the desk area and at least 50% of all 125 volt 15- and 20-Amp receptacles and 25% of the circuits feeding each base feed point of modular furniture (min 1 circuit) are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
10.4.1 [EL9]¹	Electric motors meet requirements where applicable.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.2 [FI3]¹	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.2 [FI20]¹	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3.1 [FI21]¹	HVAC systems equipped with at least one automatic shutdown control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.3.2 [FI22]¹	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.5 [FI5]¹	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.4.3.6 [FI6]¹	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.1 [FI7]¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.2 [FI8]¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.3 [FI9]¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
6.7.2.4 [FI10]¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
10.4.3 [FI24]¹	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Metra Court | T 636.349.1600
St. Louis, MO 63026 | F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER
5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

MECHANICAL
ENERGY CALCS

M3-01

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PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD

SUMMARY

A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFITCATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SPECIFICATIONS AND AS SUCH SHALL BE APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACT.

B. PRIOR TO SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND LIMITATIONS THAT IMPACT THE WORK OF THIS CONTRACT. NO ADDITIONAL COSTS TO THE OWNER SHALL BE PERMITTED FOR CHANGES TO THE WORK AS A RESULT OF THE CONTRACTORS FAILURE TO VISIT THE SITE PRIOR TO BIDDING AND IDENTIFY ITEMS THAT WERE ABLE TO BE VERIFIED DURING A SITE VISIT PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

C. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, RIGGING, AND MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE, OPERATIONAL, FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.

LANDLORDS REQUIREMENTS

A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO; LANDLORD'S WORK LETTER, LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THESE DOCUMENTS PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

B. ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO THE LANDLORD'S WORK LETTER, LANDLORDS CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT DOCUMENTS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.

EXISTING CONDITIONS

A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID PROPOSAL.

BIDS AND SUBSTITUTIONS

A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL AND MEPFP AND TELECOMMUNICATION CONSTRUCTION DOCUMENTS.

B. SHOULD THE CONTRACTOR WISH TO SUBMIT AN ALTERNATE PRODUCT TO THE MANUFACTURERS NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS FOR ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT A VOLUNTARY ALTERNATIVE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BID, STATING THE MANUFACTURER'S NAME, MODEL NUMBER, WRITTEN, DETAILED PRODUCT DATA.

C. WORK PERFORMED OR CONSTRUCTED WITH UNAPPROVED EQUALS IS AT CONTRACTOR'S RISK AND ANY REQUIRED CORRECTION OF WORK INCORPORATING UNAPPROVED EQUALS SHALL BE AT CONTRACTOR'S SOLE COST AND EXPENSE.

D. NO SUBSTITUTIONS PERMITTED FOR LIGHTING FIXTURES.

QUALITY ASSURANCE

A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL, FULLY OPERATIONAL AND CODE COMPLIANT ELECTRICAL SYSTEM.

C. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND ACCESSORIES FOR A COMPLETE FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION, WHETHER OR NOT SHOWN ON THE DRAWINGS OR SPECIFIED IN THESE SPECIFICATIONS.

D. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY THE OWNER OF ANY DIFFERENCES

E. REQUIREMENTS OF REGULATORY AGENCIES:

1. PERMITS: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.
2. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE COMPLETION OF THE PROJECT. INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

F. CODES AND STANDARDS

1. COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.
2. CONFORM TO THE INSTALLATION RULES AND REGULATIONS OF THE CODES AND STANDARDS LISTED INCLUDING ALL SUBSEQUENTLY PUBLISHED AMENDMENTS THERETO ISSUED PRIOR TO THE DATE OF THE BIDDING DOCUMENTS.
3. CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL AGENCIES WHICH HAVE AUTHORITY OVER THIS PROJECT.
4. COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING CODES AND STANDARDS THAT HAVE BEEN ADOPTED BY AND ARE ENFORCED BY THE AUTHORITY HAVING JURISDICTION:
   a. INTERNATIONAL BUILDING CODE.
   b. INTERNATIONAL ENERGY CONSERVATION CODE
   c. INTERNATIONAL MECHANICAL CODE
   d. NATIONAL ELECTRICAL CODE
   e. INTERNATIONAL FIRE CODE
   f. LIFE SAFETY CODE, NFPA 101
   g. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
   h. ALL LOCAL CODES AND ORDINANCES ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

G. REFERENCED STANDARDS:

1. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE APPLICABLE INDUSTRY STANDARDS.
2. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (UL, ETL, ETC)

ELECTRICAL CONTRACT DOCUMENTS

A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK. NEITHER THE DRAWINGS OR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER. ANY ITEM SHOWN ONLY ON THE DRAWINGS OR SPECIFIED ONLY IN THE SPECIFICATIONS SHALL BE CONSIDERED AS IF SHOWN AND SPECIFIED IN BOTH.

B. ELECTRICAL DRAWINGS AND SPECIFICATIONS: COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT NECESSARILY LIMITED TO, GEOTECHNICAL, LANDSCAPE, CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, TELECOMMUNICATION AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE APPROXIMATE LOCATION ONLY OF ELECTRICAL WORK. THE ACTUAL LOCATION OF ANY ELECTRICAL WORK SHALL NOT INTERFERE WITH THE LOCATION, CLEARANCES, ETC. REQUIRED BY THE WORK OF OTHER TRADES.
3. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH THE ARCHITECTURAL WALL ELEVATIONS, CASEWORK/CABINETRY ELEVATIONS AND DETAILS AND THE FINAL, APPROVED FOOD SERVICE SHOP DRAWINGS.

C. DEFINITIONS: THE FOLLOWING TERMS ARE USED ON THE ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND SHALL BE DEFINED AS FOLLOWS:

1. CONTRACTOR – THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
2. WORK – ALL MATERIAL, LABOR, TRANSPORTATION OF THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
3. FURNISH – PURCHASE, SUBMIT FOR REVIEW AND APPROVAL, COORDINATE WITH THE CONTRACT DOCUMENTS AND DELIVER TO THE PROJECT SITE IN NEW, UNDAMAGED CONDITION, STORE AS DIRECTED, PROTECT FROM DAMAGE DURING STORAGE.
4. INSTALL – INSTALL IN PLACE, MAKE READY FOR CONNECTION TO THE REQUIRED SERVICE.
5. CONNECT – CONNECT TO THE REQUIRED SERVICE AS REQUIRED FOR PROPER OPERATION, TEST FOR PROPER OPERATION AND FUNCTIONALITY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND REQUIREMENTS SPECIFIED WITHIN THESE SPECIFICATIONS AND TURN OVER TO THE OWNER IN FULL OPERATING CONDITION.
6. PROVIDE – FURNISH, INSTALL AND CONNECT AS DEFINED HEREIN FOR A COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION READY FOR INTENDED USE.
7. FINISHED SPACE – SPACES HAVING WALLS PAINTED OR FINISHED WITH WALL COVERING, LAY-IN OR DRYWALL CEILINGS, AND FINISHED FLOORING MATERIALS. EXAMPLES OF FINISHED SPACES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALL SPACES IN A DWELLING UNIT, OFFICES, LOBBIES, CORRIDORS, TOILET ROOMS, ETC.
8. UNFINISHED SPACES – SPACES WITH UNFINISHED WALLS AND FLOORS AND TYPICALLY ARE NOT EQUIPPED WITH A CEILING. EXAMPLES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, MECHANICAL ROOMS, ELECTRICAL ROOMS, SERVICE AREAS, ETC.
9. SHALL – ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
10. REMOVE – DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.
11. REMOVE AND SALVAGE – CAREFULLY DETACH FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE AND DELIVER TO OWNER READY FOR RE-USE.
12. REMOVE AND REINSTALL – DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR RE-USE, RE-INSTALL AND RECONNECT WHERE INDICATED SUCH THAT THE RE-INSTALLED ITEM IS FULLY OPERATIONAL.
13. EXISTING TO REMAIN – EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.

SUBMITTALS

A. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR'S OF BASIC RESPONSIBILITIES UNDER HIS CONTRACT. ARCHITECT/ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. REVIEW BY THE ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED:

1. AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS, DIMENSIONS OR OTHERWISE THAT MAY EXIST.
3. AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER.

B. SHOP DRAWINGS:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED. SEE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE SUBMITTALS FOR LIGHTING FIXTURES, PANELBOARDS, LIGHTING CONTROL DEVICES, CONTACTORS, WIRING DEVICES, DISCONNECT SWITCHES, POWER SYSTEM STUDY.

C. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTALS HAS BEEN APPROVED BY THE ENGINEER.

ELECTRICAL COORDINATION DRAWINGS

A. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.

B. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.

POWER SYSTEM STUDIES – GENERAL

A. PROVIDE COMPUTER-BASED, POWER SYSTEM STUDIES THAT INCLUDES:

1. A SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES;
2. AN ARC-FLASH STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR ELECTRICAL EQUIPMENT.

B. STUDIES SHALL BE PERFORMED UTILIZING COMPUTER PROGRAMS THAT ARE DISTRIBUTED NATIONALLY AND ARE IN WIDE USE. SOFTWARE ALGORITHMS SHALL COMPLY WITH REQUIREMENTS OF STANDARDS AND GUIDES SPECIFIED IN THIS SECTION. MANUAL CALCULATIONS ARE UNACCEPTABLE.

C. SOFTWARE DEVELOPERS: SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS, PERFORM STUDIES UTILIZING SOFTWARE PRODUCTS BY ONE OF THE FOLLOWING:

1. EASY POWER
2. POWER ANALYTICS CORPORATION
3. SKM SYSTEMS ANALYSIS

D. ALL STUDIES SHALL BE BASED ON THE DEVICE CHARACTERISTICS OF ACTUAL EXISTING COMPONENTS AND THE NEW COMPONENTS BEING INSTALLED.

E. PROVIDE ALL FIELD LABOR AS REQUIRED TO OBTAIN ALL DATA NECESSARY TO CONDUCT THE STUDIES SPECIFIED HEREIN.

F. SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING THE SYSTEM OVERCURRENT PROTECTIVE DEVICE AND POWER DISTRIBUTION EQUIPMENT SUBMITTALS. SUBMIT STUDY REPORT FOR REVIEW PRIOR TO RECEIVING FINAL APPROVAL OF THE OVERCURRENT PROTECTIVE DEVICE AND DISTRIBUTION EQUIPMENT SUBMITTALS.

G. WHERE FORMAL COMPLETION OF STUDIES WILL CAUSE A DELAY IN THE ORDERING AND MANUFACTURING OF OVERCURRENT PROTECTIVE DEVICES AND POWER DISTRIBUTION EQUIPMENT, OBTAIN APPROVAL FROM ENGINEER FOR PRELIMINARY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICES AND ASSOCIATED CHARACTERISTICS IS SATISFACTORY AND IN COMPLIANCE WITH THE RESULTS OF THE STUDIES BEING PERFORMED.

H. POWER SYSTEMS STUDY SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR PROVIDING THE STUDY.

SHORT CIRCUIT STUDY

A. PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.

B. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.

C. FOR EXISTING RELOCATED EQUIPMENT AND EXISTING EQUIPMENT THAT IS EXISTING TO REMAIN, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS. THE QUALIFICATIONS OF TECHNICIANS AND ENGINEERS SHALL BE QUALIFIED AS DEFINED BY NFPA 70E.

D. GATHER AND TABULATE ALL REQUIRED DATA TO SUPPORT THE SHORT-CIRCUIT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 551 AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.

E. BEGIN SHORT-CIRCUIT CURRENT ANALYSIS AT THE SERVICE, EXTENDING DOWN TO THE SYSTEM OVERCURRENT PROTECTIVE DEVICES AS FOLLOWS:

1. TO NORMAL SYSTEM LOW-VOLTAGE LOAD BUSES WHERE FAULT CURRENT IS 10 KA OR LESS.

ARC FLASH HAZARD STUDY

A. PROVIDE A COMPUTER-BASED, ARC-FLASH HAZARD STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR EXISTING AND NEW ELECTRICAL EQUIPMENT.

B. ELECTRICAL SURVEY DATA: GATHER AND TABULATE ALL REQUIRED INPUT DATA TO SUPPORT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 1584 AND NFPA 70E AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.

C. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.

D. FOR EXISTING EQUIPMENT, WHETHER OR NOT RELOCATED, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS.

E. HAZARD LABELS SHALL HAVE AN ORANGE HEADER WITH THE WORDING, "WARNING, ARC-FLASH HAZARD," AND SHALL INCLUDE THE FOLLOWING INFORMATION TAKEN DIRECTLY FROM THE ARC-FLASH HAZARD ANALYSIS:

1. LOCATION DESIGNATION.
2. NOMINAL VOLTAGE.
3. FLASH PROTECTION BOUNDARY.
4. HAZARD RISK CATEGORY.
5. INCIDENT ENERGY.
6. WORKING DISTANCE.
7. ENGINEERING REPORT NUMBER, REVISION NUMBER, AND ISSUE DATE.

F. ARC FLASH HAZARD WARNING LABELS SHALL BE A 3.5-BY-5-INCH THERMAL TRANSFER LABEL OF HIGH-ADHESION POLYESTER FOR EACH WORK LOCATION INCLUDED IN THE ANALYSIS.

G. LABELS SHALL BE MACHINE PRINTED, WITH NO FIELD-APPLIED MARKINGS.

RECORD DOCUMENTS

A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

B. CONTRACTOR SHALL PROVIDE THE TENANT WITH THE FINAL AS-BUILT SET OF DRAWINGS AT THE COMPLETION OF THE WORK.

COORDINATION WITH LANDLORD

A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE

B. CONTRACTOR SHALL MEET WITH AUTHORIZED REPRESENTATIVES OF THE LANDLORD AND EACH UTILITY TO DISCUSS LANDLORD SCOPE OF WORK, CONTRACTOR SCOPE OF WORK, POINT OF SERVICE PICK-UP, DETAILS REGARDING SYSTEM INTERFACE STANDARDS TO BE COMPLIED WITH, ETC.

COORDINATION WITH OTHER TRADES

A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WITH THE WORK OF OTHER TRADES.

B. SET ALL SLEEVES AND CUT AND PATCH ALL MISCELLANEOUS HOLES NECESSARY FOR THE CONVENIENT AND PROPER INSTALLATION OF THE WORK.

C. CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZE OF PIPES, EQUIPMENT, DUCTS, OPENINGS AND SPECIAL ARCHITECTURAL TREATMENTS IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN THE INSTALLATION OR THE PROGRESS OF THE WORK OF ANY CONTRACTOR ON THE PROJECT.

D. ALL LINE VOLTAGE WIRING AND FINAL CONNECTIONS TO COMPLETE MECHANICAL SYSTEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

E. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS, (HVAC EQUIPMENT, PLUMBING EQUIPMENT, ETC.

F. COORDINATE THE NEMA CONFIGURATION OF THE RECEPTACLE TO BE PROVIDED WITH THE NEMA PLUG CONFIGURATION OF THE CORD/PLUG ASSEMBLY FURNISHED WITH THE EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.

G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.

H. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ELECTRICAL WORK TO BE PROVIDED ASSOCIATED WITH MECHANICAL EQUIPMENT.

I. WHERE ELECTRICAL WORK (CONDUIT BOXES, RECEPTACLES, DISCONNECT SWITCHES, ETC.) ARE SECURED DIRECTLY TO THE HOUSING OF MECHANICAL EQUIPMENT, THEY SHALL BE INSTALLED ON A PORTION OF THE EQUIPMENT HOUSING NOT REQUIRED TO BE REMOVED FOR ROUTINE MAINTENANCE. PRIOR TO INSTALLATION, COORDINATE ALL ELECTRICAL WORK AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

TEMPORARY POWER

A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY CONSTRUCTION POWER AND LIGHTING TO ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR CONTRACTS.

B. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR TO COORDINATE THE TYPE OF EQUIPMENT TO BE UTILIZED DURING THE WORK OF THIS CONTRACT

SEQUENCING AND SCHEDULING

A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS AND THE PROJECT PHASING PLAN.

FIRE STOPPING

A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY CONDUIT OR CABLES AND OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES) AND VERTICAL SHAFT WALLS AND PARTITIONS.

B. FIRESTOP SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ATME E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF THE CONSTRUCTION BEING PENETRATED.

SEISMIC RESTRAINT

A. PROVIDE SEISMIC RESTRAINT FOR ELECTRICAL WORK AND SYSTEMS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

B. SUBMIT ALL REQUIRED DETAILS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.

CUTTING & PATCHING

A. PRIOR TO CORE DRILLING OR SAW CUTTING OPERATIONS, CONTRACTOR SHALL X-RAY OR GROUND PENETRATING RADAR (GPR) THE EXISTING SLAB TO DETERMINE THE LOCATION OF ANY EXISTING UTILITIES, STRUCTURAL MEMBERS. ETC. COORDINATE ALL SCANNING, CUTTING AND CORE DRILLING OPERATIONS WITH GC AND LANDLORD PRIOR TO COMMENCEMENT OF WORK.

B. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. EXISTING UTILITIES AND STRUCTURAL COMPONENTS, INCLUDING BUT NOT NECESSARILY LIMITED TO, COLUMNS, BEAMS, GIRDERS, PLATES OR JOISTS SHALL NOT BE CUT.

C. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACES AND PREPARE TO RECEIVE SPECIFIED FINISHES.

D. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING SYSTEM. ALL ROOF WORK SHALL BE PERFORMED TO MEET THE WARRANTY REQUIREMENTS OF THE EXISTING ROOFING SYSTEM.

GROUNDING

A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE N.E.C. REQUIREMENTS.

B. THE METALLIC CONDUIT SYSTEM SHALL BE GROUNDED AND BONDED TO FORM AN EQUIPMENT GROUNDING CONDUCTOR.

C. PROVIDE AN INSULATED EQUIPMENT GROUND CONDUCTOR WITHIN ALL FEEDERS AND BRANCH CIRCUITS. THIS EQUIPMENT GROUND CONDUCTOR SHALL BE IN ADDITION TO THE EQUIPMENT GROUND CONDUCTOR FORMED BY THE METALLIC CONDUIT SYSTEM.

D. PROVIDE A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR FROM THE GROUND BAR AT TELEPHONE TERMINAL BOARD TO THE ELECTRICAL SERVICE GROUND.

E. PROVIDE A COPPER GROUNDING BAR AT THE TELEPHONE TERMINAL BACKBOARD. GROUNDING BAR SHALL BE ¼ INCH X 4 INCHES X 12 INCHES, PRE-DRILLED FOR CONDUCTOR TERMINATIONS, WITH NON-METALLIC STAND-OFF BRACKETS WITH INSULATORS. CHATSWORTH PRODUCTS 10622-012 OR APPROVED EQUAL.

EQUIPMENT IDENTIFICATION

A. PROVIDE EQUIPMENT LABELS ON PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, TRANSFORMERS, CONTROLS, ETC. EQUIPMENT LABELS SHALL BE ENGRAVED PHENOLIC RESIN NAMEPLATES ATTACHED TO ENCLOSURE WITH MECHANICAL FASTENERS. SELF-ADHESIVE NAMEPLATES ARE NOT ACCEPTABLE. LETTERING SHALL BE 1/2" HIGH, BLACK TEXT ON WHITE BACKGROUND.

B. ENGRAVED NAMEPLATES ATTACHED TO COMPONENTS SHALL IDENTIFY THE EQUIPMENT DESIGNATION, NAME OF THE "UPSTREAM" POWER SOURCE (AS APPLICABLE), VOLTAGE AND PHASE.

C. THE COVERS OF ALL OUTLET AND JUNCTION BOXES INSTALLED ABOVE CEILINGS AND INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL, VOLTAGE, PHASE AND CIRCUIT NUMBERS CONTAINED WITHIN THE BOX. LABEL SHALL BE LEGIBLY HANDWRITTEN WITH BLACK, FELT TIP PERMANENT MARKER.

D. THE COVER PLATES OF ALL WIRING DEVICES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL AND THE CIRCUITS SERVING THE DEVICE. LABELS SHALL BE MACHINE PRINTED, BLACK TEXT ON A CLEAR, SELF ADHESIVE LABEL.

CONDUIT AND FITTINGS

A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.

B. MINIMUM CONDUIT SIZE SHALL BE ¾" TRADE SIZE. SWITCH LEGS SHALL BE ½" TRADE SIZE.

C. WITHIN INTERIOR FINISHED SPACES, ALL CONDUIT SHALL BE INSTALLED CONCEALED WITHIN NEW AND EXISTING WALLS AND ABOVE NEW AND EXISTING CEILINGS.

D. CONDUIT INSTALLED WITHIN THE INTERIOR OF THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT). CONDUIT FITTINGS FOR INDOOR EMT CONDUITS SHALL BE CAST METAL, COMPRESSION TYPE.

E. EMT SHALL BE USED FOR INTERIOR FEEDERS AND BRANCH CIRCUITS INSTALLED EXPOSED IN UNFINISHED SPACES, CONCEALED ABOVE NEW OR EXISTING CEILINGS OR CONCEALED WITHIN EXISTING AND NEW INTERIOR PARTITIONS.

F. CONDUITS INSTALLED EXPOSED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. FITTINGS SHALL BE THREADED TYPE.

G. CONDUITS INSTALLED UNDER SLAB ON GRADE CONSTRUCTION SHALL BE RIGID NON-METALLIC (RNC), SCHEDULE 40 PVC. RNC COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED. FITTINGS FOR RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH NEMA TC 3; MATCH TO CONDUIT TYPE AND MATERIAL.

H. PROVIDE CONDUIT EXPANSION FITTINGS IN ALL CONDUIT RUNS THAT EXTEND ACROSS BUILDING EXPANSION JOINTS AND WHERE MOVEMENT MAY BE ENCOUNTERED.

I. CONDUIT SHALL BE SUPPORTED FROM STRUCTURE ONLY.

J. PVC CONDUIT SHALL ONLY BE USED BELOW GRADE.

K. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT WITHIN INTERIOR DRY LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

L. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT IN WET OR OUTDOOR LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

M. PROVIDE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES (FIXTURE WHIPS). MAXIMUM CONDUIT LENGTH SHALL BE 72 INCHES.

N. CONDUITS THAT EXTEND UP TO THE ROOF LEVEL TO SERVE ROOF MOUNTED MECHANICAL EQUIPMENT INSTALLED ON A CURB SHALL BE ROUTED WITHIN THE EQUIPMENT CURB. COORDINATE ELECTRICAL WORK WITH MECHANICAL EQUIPMENT INSTALLER.

O. ACCEPTABLE MANUFACTURERS FOR GALVANIZED RIGID CONDUIT, EMT, FLEXIBLE METAL CONDUITS AND LIQUID-TIGHT FLEXIBLE METAL CONDUITS SHALL BE ALLIED, REPUBLIC, WHEATLAND, ELECTRI-FLEX AND ANACONDA.

P. ACCEPTABLE MANUFACTURERS FOR CONDUIT FITTINGS SHALL BE THOMAS AND BETTS OR APPROVED EQUAL.

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MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Merus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

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CONDUCTORS

A. ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER, #12 AWG MINIMUM.

B. CONDUCTORS #12 AND #10 AWG SHALL BE SOLID; #8 AWG AND LARGER SHALL BE STRANDED.

C. THE USE OF ALUMINUM CONDUCTORS IS NOT ACCEPTABLE.

D. EXPOSED, INTERIOR FEEDERS: TYPE THHN–THWN, SINGLE CONDUCTORS IN CONDUIT.

E. FEEDERS INSTALLED CONCEALED IN CEILINGS, WALLS, PARTITIONS: TYPE THHN–THWN, SINGLE CONDUCTORS IN CONDUIT.

F. FEEDERS INSTALLED CONCEALED IN CONCRETE, BELOW SLABS–ON–GRADE AND UNDERGROUND: TYPE THHN–THWN, SINGLE CONDUCTORS IN PVC CONDUIT.

G. EXPOSED, INTERIOR, BRANCH CIRCUITS: TYPE THHN–THWN, SINGLE CONDUCTORS IN CONDUIT.

H. BRANCH CIRCUITS CONCEALED IN EXISTING AND NEW CEILINGS, WALLS, AND PARTITIONS: TYPE THHN–THWN, SINGLE CONDUCTORS IN CONDUIT.

I. BRANCH CIRCUITS CONCEALED BELOW SLABS–ON–GRADE, AND UNDERGROUND: TYPE THHN–THWN, SINGLE CONDUCTORS IN CONDUIT.

J. ACCEPTABLE MANUFACTURERS FOR CONDUCTORS: GENERAL CABLE COMPANY, CAROL, ANACONDA, ROME, SOUTHWIRE.

K. CLASS 1 CONTROL CIRCUITS: TYPE THHN–THWN, IN CONDUIT.

L. CLASS 2 CONTROL CIRCUITS: POWER–LIMITED PLENUM RATED CABLE, CONCEALED IN BUILDING FINISHES.

M. THE USE OF NON–METALLIC–SHEATHED CABLE (TYPE NM) AND ARMORED CABLE (TYPE AC OR BX) IS NOT ACCEPTABLE

N. WIRE CONNECTORS SHALL BE EQUAL TO SCOTCH LOCK FOR #8 AWG AND SMALLER, THOMAS AND BETTS LOCK–TITE FOR #6 AND LARGER.

O. PROVIDE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS HAVING A CONDUCTOR LENGTH LONGER THAN 75 FEET.

P. SIZE OF CONDUCTORS AND CABLES INDICATED OR SPECIFIED ARE IN AMERICAN WIRE GAGE (AWG – BROWN AND SHARPE).

Q. INSTALL ALL WIRING IN APPROVED RACEWAY AND ENCLOSURES, EXCEPT WHERE SPECIFIED OR INDICATED, FOR LOW–VOLTAGE WIRING OR, WHERE TYPE MC CABLE IS INDICATED, SPECIFIED AS ACCEPTABLE, OR BOTH.

R. SUPPORT ALL CONDUCTORS AND CABLES IN VERTICAL INSTALLATIONS, AS REQUIRED BY NFPA–70, BY INSTALLING CABLE SUPPORTS OR PLUG–TYPE CONDUIT RISER SUPPORTS, OR WIRE–MESH SAFETY GRIPS.

S. INSTALL ALL CONDUCTORS AND CABLE IN RACEWAYS CONTINUOUS WITHOUT TAPS OR SPLICES. SPLICE OR TAP ONLY IN APPROVED BOXES AND ENCLOSURES WITH APPROVED SOLDERLESS CONNECTORS, OR CRIMP CONNECTORS AND TERMINAL BLOCKS FOR CONTROL WIRING, AND KEEP TO THE MINIMUM REQUIRED. INSULATE ALL SPLICES, TAPS, AND JOINTS AS REQUIRED BY CODE.

T. ALL MATERIALS USED TO TERMINATE, SPLICE OR TAP CONDUCTORS: DESIGNED, PROPERLY SIZED, AND UL LISTED FOR THE SPECIFIC APPLICATION AND CONDUCTORS INVOLVED, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING THE MANUFACTURER'S RECOMMENDED TOOLS.

U. WHERE WIRING IS INDICATED AS INSTALLED, BUT THE CONNECTION IS INDICATED "FUTURE" OR "BY OTHER DIVISION, TRADES, OR CONTRACTS", LEAVE A MINIMUM OF 3' FOOT "PIGTAIL" AT THE BOX, TAPE THE ENDS OF CONDUCTORS, AND COVER THE BOX.

V. VOLTAGE DROP IN BRANCH CIRCUITS SHALL NOT EXCEED 3 PERCENT.

W. WHEN NEW CONDUCTORS ARE CONNECTED TO EXISTING CONDUCTORS, THE NEW CONDUCTORS SHALL BE OF THE SAME AWG, CONDUCTOR MATERIAL, INSULATION TYPE TEMPERATURE RATING,. ETC. AS THE EXISTING CONDUCTORS TO WHICH BEING CONNECTED.

TYPE MC CABLE

A. A.TYPE MC CABLE: 600V, UNJACKETED: ANSI E119 AND E814, UL STANDARDS 44 OR 83 (AS APPLICABLE), AND 1569, NFPA 70 ARTICLE 330; ALUMINUM OR GALVANIZED STEEL INTERLOCKED ARMOR; THHN– OR XHHW–INSULATED CONDUCTORS; COLOR CODE: ICEA METHOD 1, WITH GREEN INSULATED GROUNDING CONDUCTOR.

B. USES PERMITTED

B.1. IN LIEU OF FLEXIBLE CONDUIT AND WIRING FROM LIGHT FIXTURES IN ACCESSIBLE CEILINGS TO JUNCTION BOXES (ATTACHED TO BUILDING STRUCTURE) ABOVE THE CEILING. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5' FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6' FEET IN UNSUPPORTED LENGTHS.

B.2. FOR VERTICAL DROPS IN STUD WALLS.

C. USES NOT PERMITTED:

C.1. HOMERUNS TO PANELBOARDS.

C.2. WHERE EXPOSED TO VIEW.

C.3. WHERE EXPOSED TO DAMAGE.

C.4. HAZARDOUS LOCATIONS.

C.5. WET LOCATIONS

C.6. INSTALLED HORIZONTALLY WITHIN STUD WALL

C.7. WHEN RESTRICTED OTHERWISE ABOVE, AND WHEN SPECIFICALLY DISALLOWED BY THE LOCAL AHJ, OWNER OR BOTH

D. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, E.C. SHALL VERIFY THE PERMISSIBLE USE OF M.C. CABLE WITH THE A.H.J.

E. REFER TO NOTES ON DRAWINGS REGARDING REQUIREMENTS FOR THE USE OF HCF TYPE MC CABLE WITHIN SELECT SPACES.

CONDUCTOR COLOR CODING

A. PROVIDE COLOR CODING SYSTEM AS LISTED BELOW FOR ALL FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD ON PANELS, AND FOR PHASE IDENTIFICATION.

B. COLOR CODING FOR CONDUCTOR #12 AWG THROUGH #10 AWG SHALL CONSIST OF COLOR CODED THERMOPLASTIC INSULATION OF THE COLORS SPECIFIED HEREIN.

C. COLOR CODING FOR CONDUCTORS #8 AWG AND LARGER SHALL BE FIELD APPLIED SELF ADHESIVE TAPE OF THE COLOR SPECIFIED HEREIN FOR THE PARTICULAR PHASE.

D. 120/208V: PHASE A––BLACK, PHASE B––RED, PHASE C––BLUE, NEUTRAL––WHITE, EQUIPMENT GROUND––GREEN, ISOLATED GROUND––GREEN WITH DISTINCTIVE WHITE OR YELLOW MARKINGS.

BOXES AND FITTINGS

A. ALL OUTLET BOXES SHALL BE UL LISTED AND LABELED FOR USE IN THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE.

B. SHEET METAL OUTLET AND DEVICE BOXES FOR DRY, INTERIOR APPLICATIONS: COMPLY WITH NEMA OS 1 AND UL 514A.

C. CAST–METAL OUTLET AND DEVICE BOXES FOR EXTERIOR APPLICATIONS: COMPLY WITH NEMA FB 1, FERROUS ALLOY, TYPE FS OR FD, WITH GASKETED COVER.

D. OUTLET BOXES INSTALLED WITHIN FIRE RATED ASSEMBLIES SHALL HAVE A FIRE RATING EQUAL TO OR GREATER THAN THE RATING OF THE WALL IN WHICH IT IS INSTALLED.

E. OUTLET BOXES SHALL BE 4 INCHES SQUARE BY 2 1/8 INCHES DEEP , EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1–1/2" DEEP.

F. OUTLET BOXES FOR VOICE AND DATA DEVICES SHALL BE 4 11/16 INCHES SQUARE BY 2 1/8 INCHES DEEP.

G. ALL PULLBOXES SHALL BE CONSTRUCTED OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF CONDUITS AND CONDUCTORS ASSOCIATED WITH THE PULLBOX.

H. FIXTURE OUTLET BOXES IN/OR ON CEILINGS SHALL NOT BE LESS THAN 1–1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS.

I. PULLBOXES AND JUNCTION BOXES THAT ARE CUSTOM FABRICATED FOR THE APPLICATION SHALL BE FABRICATED BY A SHOP/FACILITY THAT IS CERTIFIED BY A NRTL FOR THE FABRICATION OF SUCH ENCLOSURES.

J. NEW OUTLET BOXES INSTALLED WITHIN NEW OR EXISTING STUD WALL CONSTRUCTION SHALL BE MOUNTED TO A STUD OR MOUNTED IN A BRACKET THAT SPANS STUD–TO–STUD, CADDY TSGB BRACKET OR APPROVED EQUAL. THE USE OF "OLD WORK" TYPE BOXES THAT. SECURE ONLY TO THE DRYWALL ARE NOT ACCEPTABLE.

K. ACCEPTABLE MANUFACTURERS FOR BOXES: APPLETON, STEEL CITY, RACO.

PANELBOARDS

A. PANELBOARDS SHALL BE LIGHTING AND APPLIANCE TYPE, DEAD FRONT, SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT BREAKER OVERCURRENT PROTECTIVE DEVICES, COPPER PHASE, NEUTRAL AND EQUIPMENT GROUNDING BUS BARS, MAIN CIRCUIT BREAKER OR MAIN LUG ONLY AS NOTED ON THE DRAWINGS. MAIN BUSSES AND CONNECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY. LOAD CENTERS ARE NOT ACCEPTABLE FOR USE.

B. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT–ON TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN PANEL SCHEDULES. REFER TO THE PANEL SCHEDULES ON THE DRAWINGS FOR ADDITIONAL ACCESSORIES TO BE PROVIDED AT SELECT CIRCUIT BREAKERS.

C. CIRCUIT BREAKERS SHALL HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY (AIC) OF 10,000 AMPERES FOR 120/208V SYSTEMS.

D. WHERE THE POWER SYSTEM STUDY IDENTIFIES AVAILABLE FAULT CURRENT VALUES AT EXISTING AND NEW PANELS THAT ARE HIGHER THAN THE MINIMUM AIC RATINGS SPECIFIED HEREIN, PROVIDE CIRCUIT BREAKERS IN THE PANELS THAT HAVE AIC RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY.

E. PROVIDE NEMA 1 ENCLOSURES FOR INTERIOR PANELS.

F. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, WITH TWO KEYS SUPPLIED WITH EACH LOCK.

G. CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH DUTY.

H. CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED.

I. ALL LUGS SHALL BE OF THE SOLDERLESS TYPE AND RATED AT A MINIMUM OF 75°C.

J. PROVIDE NEW CIRCUIT DIRECTORIES WITHIN NEW PANELS TO REFLECT THE WORK OF THIS CONTRACT. DIRECTORY SHALL BE TYPEWRITTEN OR COMPUTER GENERATED. HANDWRITTEN CIRCUIT DIRECTORIES ARE NOT ACCEPTABLE.

K. UTILIZE FINAL, OWNER ASSIGNED ROOM NAMES AND NUMBERS TO IDENTIFY SPACES WITHIN THE CIRCUIT DIRECTORIES. COMPLY WITH N.E.C. 408.4 WHEN IDENTIFYING CIRCUITS IN CIRCUIT DIRECTORIES.

L. PANEL CIRCUITS SHALL BE CONFIGURED SUCH THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES TO WITHIN 10%.

M. ALL NEW PANELBOARDS SHALL BE LABELED TO IDENTIFY THE AMOUNT OF FAULT CURRENT AVAILABLE AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY TO BE PERFORMED. LABEL SHALL BE MACHINE PRINTED, BLACK TEXT ON CLEAR, SELF ADHESIVE TAPE. INSTALL LABEL ADJACENT TO PANELBOARDS ENGRAVED NAMEPLATE.

N. ALL NEW PANELBOARDS SHALL BE LABELED TO IDENTIFY THE ARC FLASH HAZARD CHARACTERISTICS AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY TO BE PERFORMED.

O. ALL "SPARE" CIRCUIT BREAKERS SHALL BE SET TO THE "OFF" POSITION.

P. PROVIDE THREE (3) EMPTY 1 INCH CONDUITS FROM EACH FLUSH MOUNTED PANEL STUBBED UP TO ABOVE ACCESSIBLE CEILING.

Q. PROVIDE HANDLE TIES ON ALL MULTI–WIRE BRANCH CIRCUITS IN ACCORDANCE WITH N.E.C. 210.4(B)

R. ACCEPTABLE MANUFACTURERS FOR PANELBOARDS BY SCHNEIDER, ABB, SIEMENS OR EATON.

SWITCHES

A. TOGGLE SWITCHES SHALL BE SINGLE POLE, 3–WAY OR 4–WAY AS NOTED ON THE DRAWINGS, 20 AMPERES, 120/277 VOLT AC TYPE, SPECIFICATION GRADE WITH SCREW TERMINALS. HUBBELL 1221–X, 1223–X OR 1224–X OR APPROVED EQUIVALENT BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

B. TOGGLE SWITCHES SHALL BE MOUNTED AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS. VERIFY ALL DOOR SWINGS PRIOR TO INSTALLATION OF OUTLET BOXES FOR SWITCHES.

C. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

D. PROVIDE A NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS

E. SWITCHES SHALL BE INSTALLED SURFACE MOUNTED IN UNFINISHED AREA. FLUSH MOUNTED IN FINISHED SPACES.

F. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES: LEGRAND, LEVITON.

RECEPTACLES

A. RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE, NEMA 5–20R WITH SCREW TERMINALS. HUBBELL 5362–W OR APPROVED EQUAL BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

B. GFCI RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE, NEMA 5–20R FEED THROUGH TYPE CAPABLE OF PROTECTING DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMP TRIP LEVEL, NEMA 5–20R WITH SCREW TERMINALS. HUBBELL GF5362–X OR APPROVED EQUAL BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

C. PROVIDE SPECIAL PURPOSE RECEPTACLES HAVING NEMA CONFIGURATIONS THAT MATE AND MATCH THE NEMA PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT TO BE CONNECTED.

D. COVER PLATES FOR EXTERIOR RECEPTACLES SHALL BE RATED FOR "WEATHERPROOF WHILE IN USE".

E. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

F. QUAD RECEPTACLES SHALL CONSIST OF (2) DUPLEX RECEPTACLES INSTALLED IN A SINGLE BOX UNDER A SINGLE COVER PLATE.

G. RECEPTACLES SHALL BE INSTALLED SURFACE MOUNTED IN UNFINISHED SPACES, FLUSH MOUNTED IN FINISHED SPACES.

H. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES AND RECEPTACLES: LEGRAND, LEVITON.

GFCI PROTECTION:

A. ALL SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPS OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPS OR LESS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH N.E.C. 210.8, (B), (1) – (10), OR THE EQUIVALENT REQUIREMENT WITHIN THE APPLICABLE ELECTRICAL CODE.

B. THE "GFCI" NOTATION AT A DEVICE OR CIRCUIT BREAKER INDICATES THAT GFCI PROTECTION SHALL BE PROVIDED FOR THE CIRCUIT OR CIRCUITS INDICATED. GFCI PROTECTION SHALL BE PROVIDED BY ONE OF THE FOLLOWING MEANS:

- INTEGRAL GFCI PROTECTION WITHIN THE DEVICE (NEMA 5–20R RECEPTACLES), WHEN THE DEVICE IS ABLE TO BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED BY THE APPLICABLE ELECTRICAL CODE.
- GFCI CIRCUIT BREAKER INSTALLED WITHIN THE PANEL FOR SERVICE TO THE CIRCUIT OR CIRCUITS.
- GFCI CIRCUIT BREAKER INSTALLED WITHIN AN INDIVIDUAL ENCLOSURE EXTERNAL TO THE PANEL FOR SERVICE TO THE CIRCUIT.
- DEAD–FRONT GFCI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED BY THE N.E.C. (APPLICABLE TO 20 AMP, 120 VOLT CIRCUITS).
- AN INDIVIDUALLY MOUNTED EXTERNAL SPECIAL PURPOSE GROUND FAULT CIRCUIT INTERRUPTER (SPGFCI) DEVICE SIMILAR TO "SHOCK BLOCK" PRODUCTS AS MANUFACTURED BY LITTLEFUSE, OR APPROVED EQUAL.
- DEAD FRONT DEVICES SHALL BE BE LABELED TO IDENTIFY THE CIRCUIT AND THE LOAD SERVED BY THE DEVICE.

C. ALL GFCI RECEPTACLES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.

COVER PLATES FOR TOGGLE SWITCHES AND RECEPTACLES

A. COVER PLATES SHALL BE NYLON, OF CONFIGURATION TO MATCH THE WIRING DEVICE.

B. CONFIGURATION AND COLOR OF COVER PLATE SHALL MATCH THAT OF THE WIRING DEVICE THAT THE PLATE WILL BE INSTALLED ON.

C. COVER PLATE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

D. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR COVER PLATES: LEGRAND, LEVITON.

E. COVERPLATES AS PROVIDED FOR RECEPTACLES AS CONTROLLED BY AN AUTOMATIC MEANS SHALL BE ENGRAVED OR OTHERWISE PERMANENTLY MARKED TO NOTIFY THAT THE RECEPTACLE IS TO BE CONTROLLED BY AUTOMATIC MEANS, AND SHALL BE MARKED TO IDENTIFY WHICH OUTLETS WITHIN THE RECEPTACLE ARE BEING CONTROLLED.

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES AND EQUIPMENT

A. DEVICES AND EQUIPMENT SHALL BE INSTALLED AT THE MOUNTING HEIGHTS NOTED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY APPLICABLE CODES AND STANDARDS:

1. TOGGLE SWITCHES, WALL SWITCH OCCUPANCY SENSORS, VACANCY SENSORS AND DIMMERS FOR LIGHTING CONTROL – TOP OF DEVICE 48" AFF
2. CONVENIENCE RECEPTACLES –TOP OF DEVICE 18" AFF
3. CONVENIENCE RECEPTACLES AT COUNTERTOPS – BOTTOM OF DEVICE 44" AFF OR AS NOTED ON THE DRAWINGS
4. TELEPHONE AND DATA OUTLETS – TOP OF DEVICE 18" AFF, 44" AFF WHEN INSTALLED AT COUNTER TOPS.
5. DISCONNECT SWITCHES – TOP OF ENCLOSURE 66" AFF
6. PANELBOARDS – TOP OF ENCLOSURE 72" AFF

DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, UL LISTED AND LABELED, EQUIPPED WITH A LUG FOR TERMINATION OF THE EQUIPMENT GROUNDING CONDUCTOR.

B. DISCONNECT SWITCHES SHALL BE LOCKABLE WITH NEMA 1 ENCLOSURES FOR DRY, INDOOR APPLICATIONS; NEMA 3R ENCLOSURES FOR OUTDOOR OR WET LOCATION APPLICATIONS.

C. TOGGLE DISCONNECTS SHALL BE 20A OR 30A AS REQUIRED. SINGLE POLE, 2–POLE OR 3–POLE AS REQUIRED, SINGLE THROW, MOTOR RATED SWITCH WITHOUT OVERLOAD PROTECTION. NEMA 1, 3R OR 4X STAINLESS STEEL ENCLOSURE AS REQUIRED BY APPLICATION, PADLOCK ATTACHMENT

D. ALL DISCONNECT SWITCHES SHALL BE EQUIPPED WITH AN ENGRAVED NAMEPLATE TO IDENTIFY THE SERVING PANEL, CIRCUIT NUMBERS AND THE LOAD SERVED BY THE SWITCH.

E. ACCEPTABLE MANUFACTURERS FOR DISCONNECT SWITCHES: SCHNEIDER, ABB, SIEMENS OR EATON.

LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LIGHT SOURCES SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

B. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LIGHT SOURCES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW. PROVIDE LIGHTING FIXTURES COMPLETE WITH HANGERS, PLASTER FRAMES, AND ALL OTHER NECESSARY ACCESSORIES

C. LED DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT.

D. THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMER SWITCH DESIGNATED FOR LOW VOLTAGE LOADS.

E. THE CONTRACTOR SHALL PROVIDE LIGHTING CONTROL DEVICES (DIMMERS) THAT ARE COMPATIBLE WITH LED DRIVER BEING PROVIDED WITH THE FIXTURE.

F. EXIT SIGNS INDICATED AS PROVIDING POWER TO REMOTE EXTERIOR EGRESS LIGHTS SHALL BE EQUIPPED WITH THE INCREASED BATTERY CAPACITY TO SERVE THE REMOTE EMERGENCY LIGHT. REMOTE EMERGENCY LIGHT SHALL BE A STANDARD ACCESSORY OF THE INTERIOR EXIT SIGN TO WHICH CONNECTED.

LIGHTING CONTROLS

A. TIME SWITCHES, PHOTOCELLS AND CONTACTORS SHALL BE AS DETAILED ON DRAWINGS.

B. WALL SWITCH OCCUPANCY SENSORS SHALL BE WATT STOPPER WS–301 OR APPROVED EQUAL.

C. PROVIDE A NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS

ROUGH–IN SYSTEM FOR VOICE AND DATA

A. PROVIDE A ROUGH–IN SYSTEM AS SPECIFIED HEREIN FOR SERVICE TO THE OWNER'S VOICE AND DATA NETWORK.

B. PROVIDE A PLYWOOD BACKBOARD FOR TERMINATION OF TELEPHONE SERVICE AND DISTRIBUTION COMPONENTS. PLYWOOD BACKBOARD SHALL BE 2' X 3' X 3/4". FIRE RATED, PAINTED WITH TWO (2) COATS OF LIGHT GRAY ENAMEL PAINT. MASK FIRE RATED LABEL TO PREVENT THE LABEL FROM BEING PAINTED OVER.

C. OUTLET BOXES FOR TELEPHONE AND DATA DEVICES SHALL CONSIST OF 4 11/16 IN SQUARE BY 2 1/8 INCH DEEP OUTLET BOXES WITH SINGLE DEVICE COVER.

D. PROVIDE A 3" EMPTY CONDUIT WITH PULLSTRING FROM THE WALL MOUNTED PLYWOOD TELEPHONE TERMINAL BOARD IN THE TENANT SPACE TO THE LANDLORDS TELEPHONE DISTRIBUTION OR POINT OF SERVICE DELIVERY. PROVIDE A NYLON BUSHING ON EACH END OF CONDUIT FOR CABLE PROTECTION.

E. ROUGH–IN FOR WIRING DROPS TO WALL MOUNTED VOICE AND DATA DEVICES SHALL BE INSTALLED WITHIN EMT CONDUIT, 1". PROVIDE A CONDUIT STUB FROM THE DEVICE BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE A PLENUM RATED NYLON BUSHING ON THE END OF THE CONDUIT STUB FOR PROTECTION OF THE WIRING.

F. PRIOR TO BEGINNING WORK, THIS CONTRACTOR SHALL FULLY COORDINATE HIS CONSTRUCTION OPERATIONS AND ALL TERMINATION LOCATIONS WITH AUTHORIZED REPRESENTATIVE OF THE TELEPHONE UTILITY COMPANY AND THE OWNER'S DATA NETWORK PROVIDER BY TIMELY NOTICE OR SCHEDULING OF SERVICE EQUIPMENT DATES, SERVICE MODIFICATION DATES AND NOTIFICATION OF REQUIRED OWNER AUTHORIZATIONS INVOLVING THE UTILITY COMPANY.

DUCT MOUNTED SMOKE DETECTORS

A. PROVIDE A 120 VOLT POWER SOURCE TO ALL DUCT MOUNTED SMOKE DETECTORS INSTALLED WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT

B. PROVIDE A DUCT MOUNTED SMOKE DETECTORS WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. FINAL ELECTRICAL CONNECTION AND ALL INTERLOCK WIRING BY THE ELECTRICAL CONTRACTOR.

C. PROVIDE ALL INTERLOCK WIRING IN CONDUIT BETWEEN ALL DUCT DETECTORS SUCH THAT UPON DETECTING SMOKE IN ANY ONE DETECTOR, ALL ROOF TOP UNITS SHALL BE SHUT DOWN.

D. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCAL AHJ. EC TO PROVIDE ALL REQUIRED INTERLOCK WIRING BETWEEN DUCT DETECTOR AND REMOTE SWITCH.

E. REFER TO DETAILS ON MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TESTING

A. PROVIDE ALL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

B. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS REQUIRED TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM.

C. PROMPTLY CORRECT ANY FAILURES, DEFICIENCIES AND/OR DEFECTS REVEALED BY THESE TESTS. AFTER CORRECTING FAILURES, DEFICIENCIES OF DEFECTS, CONDUCT NEW TESTING TO VERIFY THAT THE DEFICIENCY HAS BEEN RECTIFIED AND THE SYSTEM IS FUNCTIONING PROPERLY.

D. NEW PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/– 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.

E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTING/EXIT SIGNAGE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION TO DEMONSTRATE PROPER OPERATION AND COMPLIANCE WITH APPLICABLE CODES AND SPECIFIED REQUIREMENTS.

OPERATION AND MAINTENANCE MANUALS

A. THIRTY (30) DAYS PRIOR TO SUBSTANTIAL COMPLETION, SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EQUIPMENT TO ENGINEER FOR APPROVAL. INCLUDE ONE COPY OF EACH FINAL APPROVED SUBMITTAL FOR RECORD PURPOSES, INDICATING THE ACTUAL PRODUCT INSTALLED. INCLUDE SIGNIFICANT CHANGES IN THE PRODUCT DELIVERED TO PROJECT SITE AND CHANGES IN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION.

B. PROVIDE COMPREHENSIVE CONTACT LIST INCLUDING CONTRACTOR AND SUBCONTRACTOR'S NAMES, ADDRESSES, TELEPHONE AND CONTACT PERSON FOR OWNER'S USE.

WARRANTY

A. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND THE INSTALLATION TO BE FREE OF DEFECTS THAT MAY DEVELOP IN ANY PART OF THEIR WORK CAUSED BY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT FAILURES, FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR FOR AS LONG AS NORMAL EQUIPMENT MANUFACTURER WARRANTIES ARE IN EFFECT FROM THE DATE OF OWNER ACCEPTANCE OF THE PROJECT, WHICHEVER IS LATER.

B. DURING THE ONE (1) YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR DEFECTS IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE WORK OF THE ELECTRICAL CONTRACT.

FIRE ALARM SYSTEM

A. FIRE ALARM SYSTEM WORK IS A DELEGATED DESIGN AND IS NOT INCLUDED AS PART OF THE ELECTRICAL SCOPE OF WORK.

B. FIRE ALARM SYSTEM WORK SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS A DELEGATED DESIGN.

C. GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A FIRE ALARM SYSTEM VENDOR/DESIGN PROFESSIONAL TO PREPARE THE FIRE ALARM SYSTEM DESIGN, DETAILS, CALCULATIONS, ETC. AS REQUIRED BY ALL APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION.

D. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR VERIFYING ALL APPLICABLE CODE REQUIREMENTS AND ALL LOCAL FIRE ALARM SYSTEM REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

E. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED SUBMITTAL DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

F. GC/VENDOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE FIRE ALARM WORK.

PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Merus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

ELECTRICAL SPECIFICATION

E1-01

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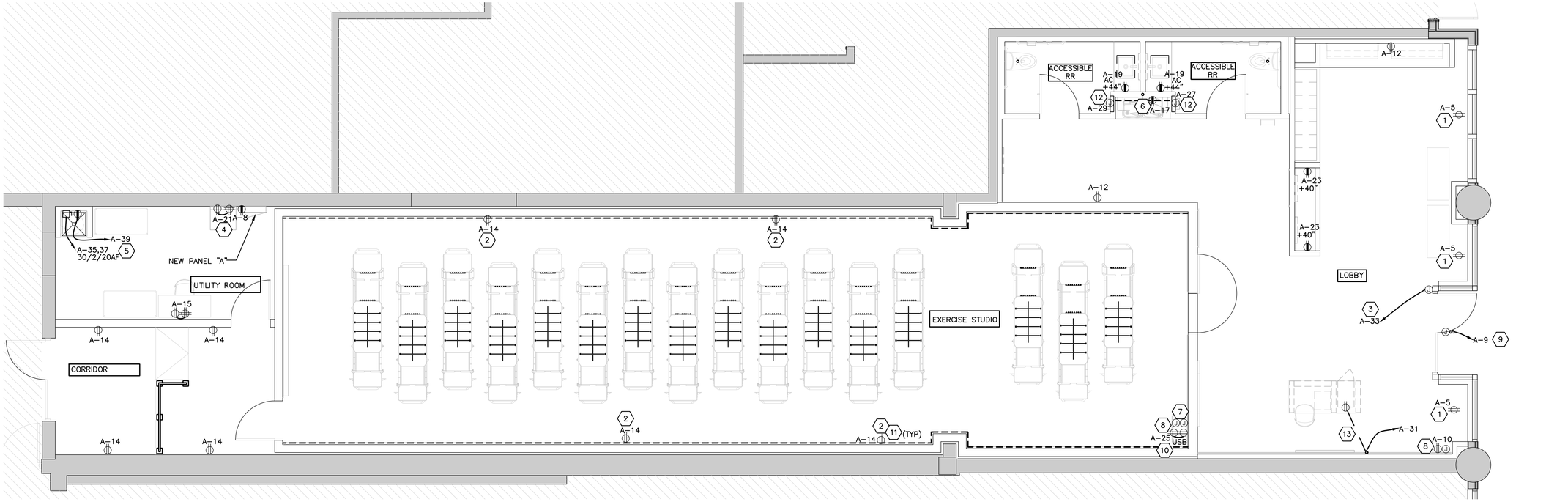
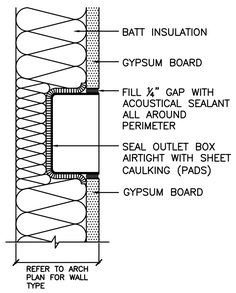


1 E2-00 ELECTRICAL POWER PLAN

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



NOTES:
1. SEPARATE OUTLETS ON OPPOSITE SIDES OF THE WALL BY 16" MINIMUM
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES.

PADS MANUFACTURED AND DISTRIBUTED BY:
LOWRY'S, INC.
23030 KIDDER STREET
HAYWARD, CA. 94545
800-252-2449; www.halowry.com

NOTE: WHERE FIRE-RATED PADS ARE REQUIRED, NELSON FSP FIRESTOP PUTTY PADS MAY BE USED; MANUFACTURED BY:
NELSON FIRESTOP PRODUCTS
4135 SOUTH 100TH EAST AVENUE – SUITE 100
TULSA, OK. 74146
800-331-7325; www.nelsonfirestop.com

2 E2-00 JUNCTION BOX ISOLATION IN SOUND-RATED CONSTRUCTION

SCALE: NTS

POWER PLAN GENERAL ELECTRICAL NOTES

1. EXACT LOCATION, CUT-OUTS AND MOUNTING HEIGHTS FOR WIRING DEVICES IN CASEWORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
2. VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. NOTIFY OWNER OF ANY DISCREPANCIES. IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, EXISTING EQUIPMENT MAY BE RE-USED. IF NOT ACCEPTABLE, FURNISH AND INSTALL NEW.
3. ALL RECEPTACLES, DATA AND TELEPHONE OUTLETS ARE TO BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
4. PRIOR TO CONNECTION EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
5. EC TO VERIFY PLUG TYPE, AMPERAGE, VOLTAGE, AND LOCATION PRIOR TO BID AND ROUGH IN.
6. EC TO VERIFY ALL POWER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE HACR BREAKERS AS REQUIRED.

POWER PLAN KEYED NOTES

1. PROVIDE SHOW WINDOW RECEPTACLES PER N.E.C REQUIREMENTS. FIELD VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS PRIOR TO BID AND ROUGH IN. CIRCUIT WIRED TO PANEL VIA CONTACTOR CONTROLLED BY TIME-CLOCK. SEE LIGHTING CONTROL DIAGRAM DETAIL ON SHEET E3-00.
2. RECEPTACLE TO BE MOUNTED HORIZONTALLY AT THE BASE BELOW THE MIRRORED WALLS. COORDINATE THE EXACT INSTALLATION DETAIL WITH THE ARCHITECT.
3. PROVIDE A JUNCTION BOX ABOVE THE CEILING WITH 3/4" EMPTY CONDUIT AND PULLSTRING DOWN TO A SINGLE GANG JUNCTION BOX AT THE SUITE ENTRY FOR CONNECTION TO SECURITY HARDWARE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS OF EQUIPMENT WITH THE SECURITY VENDOR PRIOR TO ROUGH-INS
4. EC TO PROVIDE 4' X 6' PLYWOOD BACKING AT +/- 1'-2" A.F.F. FOR RACK MOUNTING WITH:
   1. PROVIDE 2G DUAL VOLTAGE BOX WITH DECORA PLATE TO HOUSE DEDICATED 20A DUPLEX RECEPTACLE AND BRUSH PLATE FOR AV WIRES WITH 1-1/2"C, EMPTY W/ PULL STRING FOR LOW VOLTAGE WIRES TO SPEAKERS AND AV SHELF, AND 3/4"C (MIN) FOR POWER AT 5'-6" A.F.F.
   2. PROVIDE 1G LOW VOLTAGE BOX WITH DECORA PLATE WITH F-CONNECTOR KEYSTONE WITH 1"C, EMPTY W/ PULL STRING FOR SERVICE FEED AT 6'-8" A.F.F.
   3. PROVIDE QUAD RECEPTACLE FLUSH IN WALL AT 18" A.F.F. CENTERED ON RACK LOCATION.

GC TO PROVIDE CONDUIT FOR AV CONTROLS, SPEAKERS, VOLUME CONTROLS TO 12X12 JUNCTION BOX ABOVE CEILING. CONDUIT RUN TO BE NO LONGER THAN 100' LONG AND HAVE NO MORE THAN 2 90 DEGREE BENDS.

5. EC TO PROVIDE FUSED DISCONNECT SWITCH FOR ELECTRIC WATER HEATER. COORDINATE ALL THE ELECTRICAL REQUIREMENT WITH PLUMBING CONTRACTOR.
6. EC TO PROVIDE POWER TO DRINKING FOUNTAIN REFILL STATION. COORDINATE ACTUAL DEVICE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE A DOUBLE GANG JUNCTION BOX FOR SOUND INTERFACE, 3/4"C EMPTY WITH PULL STRING STUBBED INTO THE CEILING FOR INSTALLATION OF CAT-6 CABLING FROM THE AV RACK BY THE AV VENDOR. SEE DETAIL ON SHEET 2/E4-00 VERIFY WITH FIRE MARSHAL'S OFFICE IF RELAY FOR SHUTTING DOWN SOUND SYSTEM WILL BE REQUIRED
8. PROVIDE SINGLE GANG JUNCTION BOX FOR VOLUME CONTROLS, 3/4"C EMPTY WITH PULL STRING STUBBED INTO THE CEILING FOR CABLING FROM THE AV RACK BY THE AV VENDOR. SEE DETAIL ON SHEET 2/E4-00
9. EC TO PROVIDE JUNCTION BOX AND LOCAL DISCONNECT FOR EXTERIOR SIGN. PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR SIGNS AND FEED THROUGH TIMECLOCK, SEE LIGHTING CONTROL DETAIL ON SHEET E3-00
10. PROVIDE (2) DEDICATED RECEPTACLES AT SHELF FOR INSTRUCTOR MUSIC. DEVICE SHALL HAVE INTEGRAL 3 AMP (MIN) USB PORT. SEE DETAIL ON SHEET 2/E4-00
11. ALL NEW RECEPTACLES AND SWITCHES ARE TO BE BLACK WITH BLACK COVERS, ALL WALL PENETRATIONS ARE TO BE SEALED FOR SOUND TRANSFER. BOXES ARE TO BE WRAPPED WITH PUTTY PADS TO MINIMIZE SOUND TRANSFER. SEE DETAIL ON THIS SHEET. ALL OTHER WALL PENETRATIONS (CONDUIT, ETC.) ARE TO BE SEALED USING GREEN GLUE NOISE-PROOFING SEALANT. SEE DETAIL ON ARCHITECTURAL DRAWINGS.
12. E.C. TO PROVIDE JUNCTION BOX FOR CONNECTION OF HAND DRYERS AT 48" A.F.F. OR AS DIRECTED BY G.C.
13. EC TO TRENCH WITHIN EXISTING FLOOR SLAB FOR INSTALLATION OF IN FLOOR CONDUITS. PATCH FLOOR TO MATCH SURROUNDING FLOOR AREA. PRIOR TO TRENCHING, OBTAIN LANDLORD APPROVAL AND EXAMINE SLAB FOR PRESENCE OF EXISTING UTILITIES, STRUCTURAL MEMBERS, ETC. DO NOT CROSS EXISTING UTILITIES. EC TO PROVIDE POKE THRU ASSEMBLY WITH FURNITURE FEED SERVICE FITTING AND 6' LONG WHIP FOR CONNECTION TO OUTLETS. SEE ARCHITECTURAL PLAN FOR SPECIFIC LOCATION.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Marina Court, St. Louis, MO 63026 | T 636.349.1600 F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

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DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

ELECTRICAL POWER PLAN

E2-00

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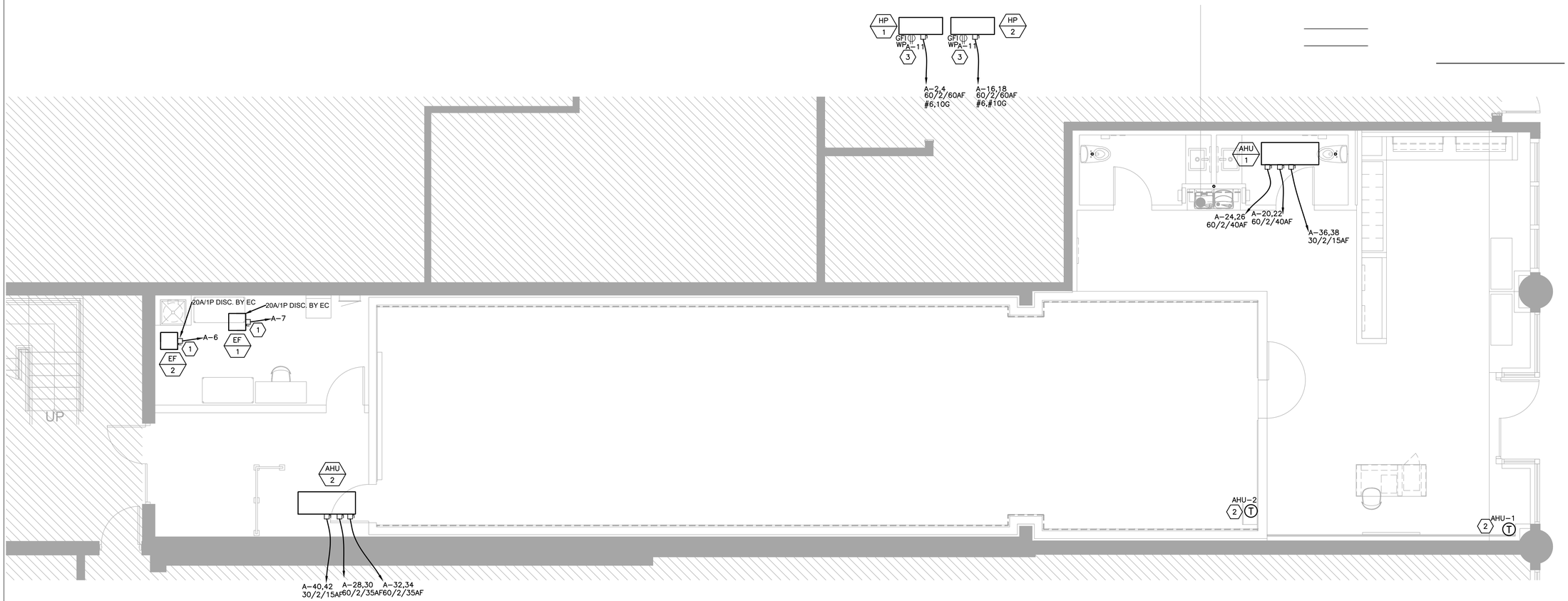
PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD



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1 / E2-01 ELECTRICAL HVAC POWER PLAN

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

ELECTRICAL HVAC POWER PLAN KEYED NOTES

1. MC TO PROVIDE FAN SPEED CONTROLLER FOR ROOM EXHAUST FAN. FEED THROUGH TIMECLOCK, SEE LIGHTING CONTROL DIAGRAM ON SHEET E3-00
2. PROVIDE JUNCTION BOX AND EMPTY 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING FOR THERMOSTAT. COORDINATE LOCATION AND REQUIREMENTS OF SMART THERMOSTAT WITH MC PRIOR TO ROUGH-IN.
3. EC TO PROVIDE POWER TO FACTORY INSTALLED FIELD WIRED RECEPTACLE.

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Morma Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1750

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

ELECTRICAL HVAC POWER PLAN

E2-01

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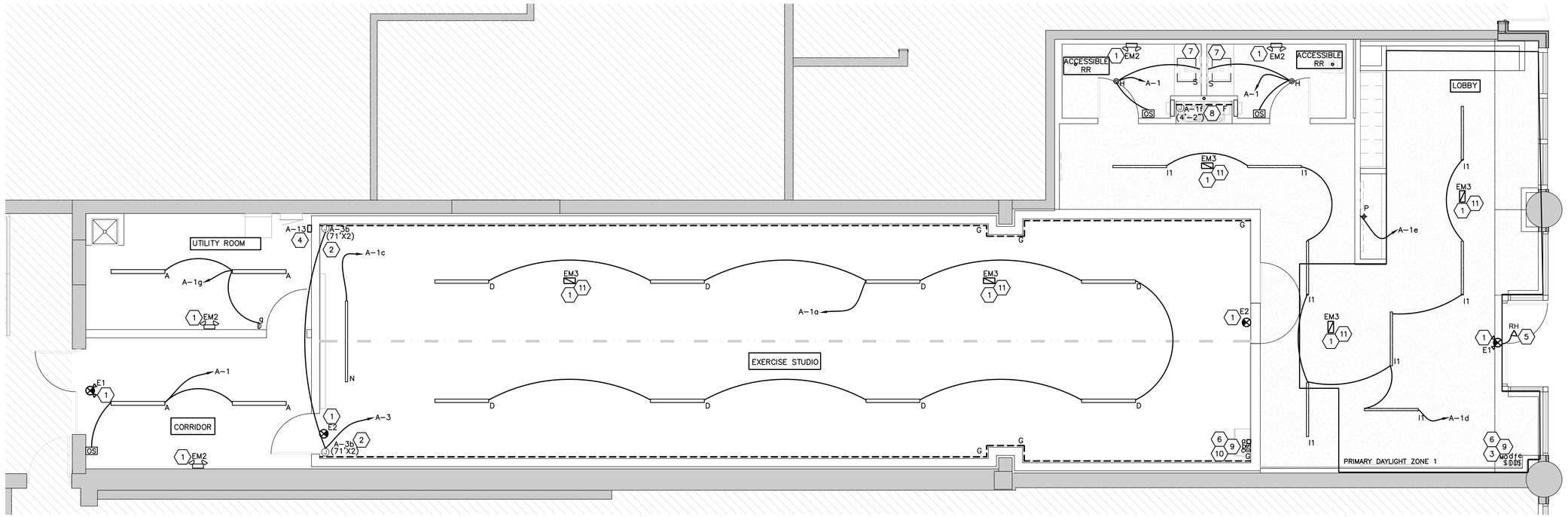
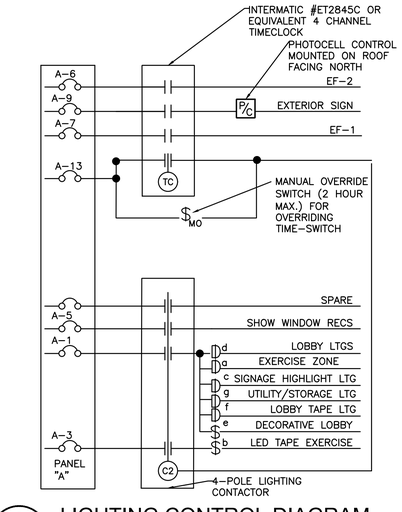


1 E3-00 ELECTRICAL LIGHTING PLAN

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



2 E3-00 LIGHTING CONTROL DIAGRAM

SCALE: NTS

GENERAL ELECTRICAL NOTES

1. PLACEMENT OF LIGHT FIXTURES SHALL BE SET AS DIMENSIONED & AS SCHEDULED.
2. LIGHT FIXTURES SHALL BE SUPPLIED AS SCHEDULED WITH NO EXCEPTIONS.
3. ALL EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AHEAD OF THE SWITCHING. EMERGENCY LIGHTING SHALL BE ON THE SAME CIRCUITRY AS THE GENERAL LIGHTING IN THE AREA THEY SERVE. EMERGENCY LIGHTING WIRING SHALL BE IDENTIFIED (MARKED) PER NEC 700.9. PROVIDE GENERAL LIGHTING CIRCUITS, WHICH HAVE EMERGENCY LIGHTING CONNECTIONS, WITH LOCK-OUT ON BREAKER.
4. EC TO TEST ALL LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATIONS, ADJUSTMENT, PROGRAMING, AND OPERATION.
5. ALL EMERGENCY, EXIT LIGHTS IN SUPPORT AREAS SHALL BE CIRCUITED TO LIGHTING CIRCUIT SERVICING SAME AREA WITH A LOCK ON DEVICE AT THE BREAKER PER NEC 700.12.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	VOLTS	WATTS
A	LITHONIA LIGHTING	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI MB	48" BLACK LED LINEAR, ROUND DIFFUSE LENSE, BLACK FINISH, 3500K	UNIV	35
B	LITECONTROL --	2L-PT-D-6-06-SOF-C5-30K -D030-D01-1C-UNV-W1	6' LENGTH RECESSED LIGHT (VERTICAL ORIENTATION), SOFT DIFFUSE LENS CARBON BLACK FINISH, 3000K COLOR TEMP	UNIV	17.4
D	PINNACLE ARCH LTG	EV3D-A-830-4-G1-U-PL2-1-0-BL --	4' LONG EV3D 3" SURFACED LINEAR LIGHTS, SURFACE MOUNTED SATINE LENS, BLACK FINISH, 3000K COLOR TEMP.	UNIV	11
F	NOVA FLEX --	NF-PRO-0-120-24V-3225K WHITE - SURFACE 1812	WHITE LED TAPE INSTALLED IN CONTINUOUS LENGTH AS NOTED, MAX 60' PER DRIVER. UNDERSIDE OF CABINETRY. 0-10V DIMMING	120	3W/FT
G	NOVA FLEX --	NF-B-0-60-24V --	BLUE LED TAPE INSTALLED IN CONTINUOUS LENGTH AS NOTED, 60' MAX PER DRIVER. TOP AND BOTTOM OF STUDIO MIRRORS. 0-10V DIMMING	120	1.5W/FT
H	NDR ELECTRIC --	0B400-CCT27 --	4" LED RECESSED DOWNLIGHT, 3000K, WHITE TRIM 0-10V DIMMING	UNIV	10
I1	PINNACLE ARCH LTG	EV3D-A-830-4-SFS-U-PL2-1-0-W	CARBON WHITE 4'-0" RECESSED LINEAR LED FIXTURE, SOFFIT DIFFUSE LENS, 3000K 0-10V DIMMING	UNIV	20
N	PINNACLE ARCH LTG	EV3WW-CL830260-6-G1-U-FSD-1-0-BL	6' BLACK SURFACE MOUNTED LINEAR WALL WASH LED. 24" FROM SIGNAGE WALL. FIXTURE TO BE CENTERED ON SIGNAGE, 0-10V DIMMING	UNIV	6W/FT
P	WING LIGHTING	WLW0036	6' RECESSED LINEAR WALL WASH, BLACK FINISH MODERN SKYLARK WALL SCONCE, GLASS WALL LIGHT, BLACK FINSH	UNIV	60
EM2	BARRON LIGHTING/ EXITRONIX	LED-95-WH	CEILING/WALL MOUNTED DUAL ADJUSTABLE HEAD LED EMERGENCY LIGHT W/90 (MIN) MINUTE EMERGENCY BATTERY BACKUP.	UNIV	1.25
EM3	BARRON LIGHTING/ EXITRONIX	FRM-BL-G2 BLACK	DUEL HEAD RECESSED EMERGENCY LIGHT WITH BLACK FINISH W/90 (MIN) MINUTE EMERGENCY BATTERY BACKUP.	UNIV	1
E1	BARRON LIGHTING/ EXITRONIX	VLEDC-51-BL-R4/ VLEDC-51-WH-R4	SINGLE/DOUBLE FACE LED EXIT SIGN W/2 EM HEADS, RED LETTERS, BLACK FINISH IN STUDIO, WH IF NOT; 90 (MIN) MINUTE EMERGENCY BATTERY BACKUP.	UNIV	1
E2	BARRON LIGHTING/ EXITRONIX	S900U-SM-R-BL-R/ S900U-SM-R-WH-R	SINGLE/DOUBLE FACE LED EXIT LIGHT, GREEN LETTERS, BLACK FINISH IN STUDIO WHITE EVERYWHERE ELSE W/90 (MIN) MINUTE EMERGENCY BATTERY BACKUP.	UNIV	4
S	ILLUMINATED BATHROOM	CHICO243366000-BLK --	SEE ARCHITECTURE DRAWINGS FOR MORE INFORMATION	110	36
RH	BARRON LIGHTING /EXITRONIX	2RL1WP --	2-LAMP REMOTE HEAD FIXTURE AS COMPATIBLE WITH FIXTURE 'E1'	120	2

NOTE:
1. FIXTURES USED FOR EXIT AND/OR EMERGENCY LIGHTING TO BE ON LOCKOUT CIRCUIT AND HAVE 90 MINUTE BATTERY BACK UP.
2. GC TO ORDER LIGHTING FIXTURES THROUGH SOLIDCORE'S CED NATIONAL ACCOUNT.
   CONTACT:
   RYAN DENNEY
   RYAN.DENNEY@CED.COM
   OFFICE: 817-923-1983
   CELL: 281-733-8884

2017 DC ENERGY CODE SECTION 9.4.1.1

PER 2017 DC ENERGY CODE SECTION 9.4.1.1 (e), SPACE WITH A TOTAL OF LESS THAN 150 WATTS OF GENERAL LIGHTING WITHIN PRIMARY DAYLIGHTING ZONE DO NOT REQUIRE DAYLIGHT RESPONSIVE CONTROLS.

GENERAL LIGHTING FIXTURES IN DAYLIGHT ZONE
(4) I1 = 80W

TOTAL=80W SPACE EXEMPT

LIGHTING PLAN KEYED NOTES

1. CONNECT EMERGENCY LIGHTING FIXTURES AHEAD OF SWITCHED LEG OF LOCAL LIGHTING CIRCUIT SERVING AREA SHOWN.
2. LIGHTING TYPE "C" – BLUE LED TAPE TO BE INSTALLED ALONG THE TOP AND BOTTOM OF THE MIRROR AND EXTEND TO THE ENDS. COORDINATE INSTALLATION WITH THE ARCHITECT AND MIRROR INSTALLER. VERIFY DIMENSIONS IN FIELD. TRANSFORMER TO BE INSTALLED ABOVE NEAREST ACCESSIBLE CEILING.
3. MANUAL OVERRIDE SWITCH TORK A502HW OR APPROVED EQUAL. REFER TO LIGHTING CONTROL DIAGRAM ON THIS SHEET.
4. TIMECLOCK FOR CONTROL OF LIGHTING LOADS EC TO PROVIDE CONTACTORS AND ALL ELECTRICAL WORK REQUIRED TO CONTROL LIGHTS VIA THE CONTROL TIME CLOCK. SEE LIGHTING CONTROL DIAGRAM, THIS SHEET
5. EC TO PROVIDE WEATHERPROOF EXTERIOR EGRESS LIGHT PER BUILDING CODE SECTION 1008. EXTERIOR EGRESS LIGHT SHALL BE A STANDARD ACCESSORY OF THE ADJACENT INTERIOR EXIT SIGN.
6. NEW SWITCHBANK, EC TO COORDINATE LOCATION WITH GC PRIOR TO ROUGH-INS
7. WALL MOUNTED LIGHTED VANITY SIGN BY GC ON RESTROOM WALL. COORDINATE MOUNTING HEIGHT & ALL ELECTRICAL WORK WITH GC.
8. LIGHTING TYPE "F" – WHITE LED TAPE TO BE INSTALLED ALONG THE RECESS BETWEEN WALL AND CABINET. FLUSH W/UNDERSIDE OF CABINET. COORDINATE INSTALLATION WITH THE ARCHITECT AND MIRROR INSTALLER. TRANSFORMER TO BE INSTALLED ABOVE NEAREST ACCESSIBLE CEILING.
9. ALL RECEPTACLES AND SWITCHES ARE TO BE BLACK WITH BLACK COVERS, ALL WALL PENETRATIONS ARE TO BE SEALED FOR SOUND TRANSFER. BOXES ARE TO BE WRAPPED WITH PUTTY PADS TO MINIMIZE SOUND TRANSFER. ALL OTHER WALL PENETRATIONS (CONDUIT, ETC.) ARE TO BE SEALED USING GREEN GLUE NOISE-PROOFING SEALANT.
10. PROVIDE WALL CONTROLLER, LUTRON PICO 4-BUTTON WIRELESS REMOTE TO CONTROL TYPE 'A' LIGHT FIXTURES.
11. EC TO COORDINATE FINAL LOCATION OF CEILING MOUNTED EMERGENCY FIXTURES WITH GC PRIOR TO INSTALLATION OF SPEAKERS IN STUDIO

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Marina Court, St. Louis, MO 63026
T 636.349.1600 F 636.349.1730

CLIENT

[solidcore]

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DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

5/12/26

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ELECTRICAL LIGHTING PLAN

E3-00

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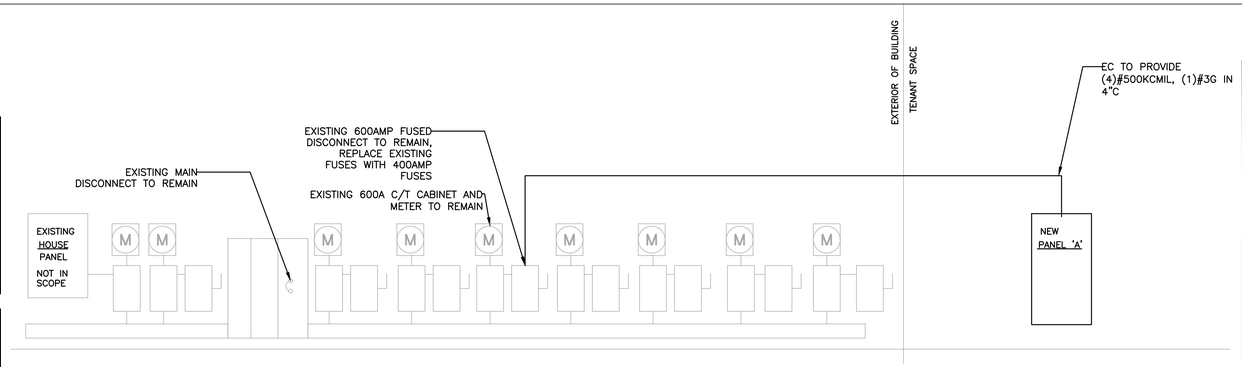
PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WELD

UTILITY TRANSFORMER FAULT CALCULATION		
SERVICE ENTRANCE		CALCULATION
VOLTAGE (L-L):	208V	I-FLA=[RATED KVA * 1000]/
PHASE (PH):	3	[V-LL*SQRT(PHASE)]
AMPS:	3000A	I-FLA= 4,164A
FULL LOAD KVA:	1081KVA	
TRANSFORMER:	1500KVA	M=100/%Z= 28.6
IMPEDANCE (%Z):	3.5%Z	I-SC=I-FLA*M= 119 KA

CALCULATION IS BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.

DISCONNECT FAULT CALCULATION		
STARTING I-SC:	119 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3PHASE	CONDUIT
FEEDER SIZE:	750	CALCULATION
FEEDER MATERIAL:	AL	*f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	8	[Q*C*V-LL]
FEEDER LENGTH (L):	10FT	f= 0.048
FEET PER OHMS (C):	25,976 FT/OHMS	M=1/(1+f)= 0.955
		I-SC=I-SC*M= 114 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

PANEL A FEEDER FAULT CALCULATION		
STARTING I-SC:	114 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT
FEEDER SIZE:	500	CALCULATION
FEEDER MATERIAL:	CU	*f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1	[Q*C*V-LL]
FEEDER LENGTH (L):	70FT	f= 2.478
FEET PER OHMS (C):	26,706 FT/OHMS	M=1/(1+f)= 0.287
		I-SC=I-SC*M= 33 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		



1 E4-00 RISER DIAGRAM
SCALE: NTS

ALL INFORMATION REGARDING CURRENT CONDITIONS OF THE ELECTRICAL SERVICE ARE VIA SECOND PARTY FIELD SURVEY. EC IS RESPONSIBLE FOR FIELD VERIFICATION OF SITE CONDITIONS AND REPORTING ANY DIFFERENCES OR DISCREPANCIES TO OWNERS REPRESENTATIVE PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING.

EC SHALL PROVIDE ARC FLASH LABELS FOR NEW AND EXISTING SWITCHBOARDS AND PANELBOARDS AS PER NEC REQUIREMENTS.
EC SHALL PROVIDE AVAILABLE FAULT CURRENT LABELS FOR NEW AND EXISTING SWITCHBOARDS AND PANELBOARDS AS PER NEC. REQUIREMENTS.

FAULT CURRENT CALCULATIONS WERE PERFORMED BY CASE ENGINEERING BASED ON AN ASSUMED TRANSFORMER KVA RATING AND ASSUMED TRANSFORMER IMPEDANCE VALUE FOR THE UTILITY COMPANY TRANSFORMER TO ESTABLISH BASIS OF DESIGN AIC RATINGS AS IDENTIFIED ON THE DRAWINGS.

PRIOR TO SUBMITTING THE POWER DISTRIBUTION EQUIPMENT PRODUCT DATA FOR REVIEW, THE ELECTRICAL CONTRACTOR SHALL CONTACT THE SERVING UTILITY COMPANY TO VERIFY THE FAULT CURRENT VALUES AVAILABLE FROM THE UTILITY COMPANY. CONTRACTOR SHALL SUBMIT THE UTILITY COMPANY FAULT CURRENT INFORMATION TO THE ENGINEER FOR REVIEW AND EVALUATION.

AFTER THE UTILITY FAULT CURRENT INFORMATION HAS BEEN REVIEWED AND EVALUATED BY THE ENGINEER, ANY REVISIONS TO THE BASIS OF DESIGN AIC VALUES IDENTIFIED ON THE DRAWINGS THAT MAY BE REQUIRED SHALL BE COMMUNICATED BY THE ENGINEER TO THE ELECTRICAL CONTRACTOR.

CONTRACTOR SHALL NOT SUBMIT THE POWER DISTRIBUTION EQUIPMENT FOR REVIEW OR ORDER THE POWER DISTRIBUTION EQUIPMENT UNTIL THE FAULT CURRENT INFORMATION FROM THE UTILITY COMPANY HAS BEEN EVALUATED BY THE ENGINEER AND PROVIDED FINAL DIRECTION REGARDING THE AIC RATING OF THE POWER DISTRIBUTION EQUIPMENT HAS BEEN PROVIDED BY THE ENGINEER.

ELECTRICAL SYMBOLS

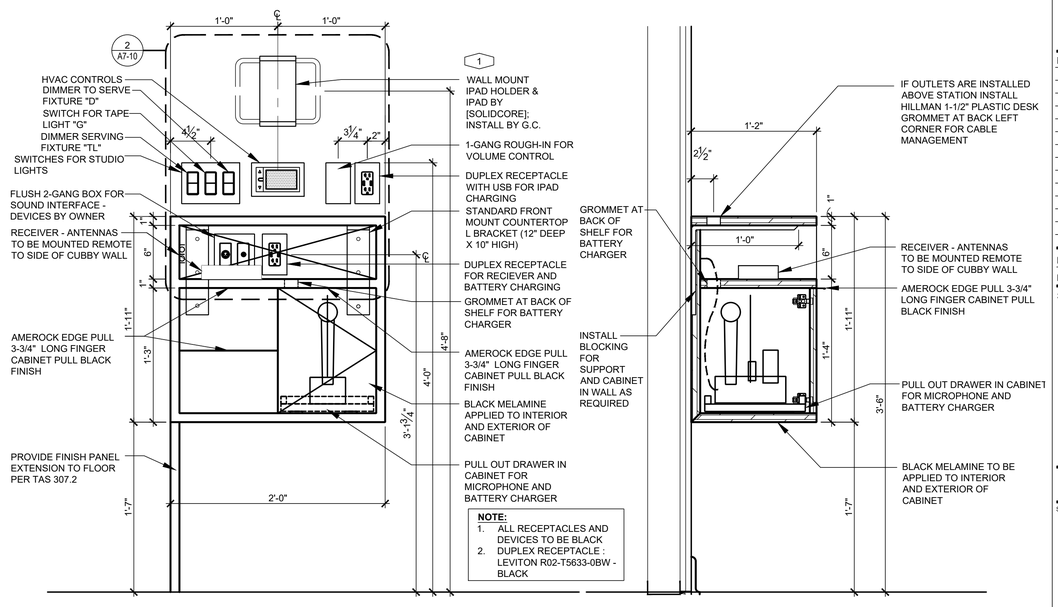
SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
CLG	CEILING MOUNTED
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
WP	WEATHERPROOF
NL	NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT NOTED)
GFCI	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE
ST	SHUNT TRIP CIRCUIT
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
TTB	TELEPHONE TERMINAL BOARD
PROVIDE	FURNISH AND INSTALL COMPLETE
TYP	TYPICAL
(J)	JUNCTION BOX, MOUNTING HEIGHT
⊖	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)
⊕	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
⊖	20A, 1P, 125V, GFCI TYPE DUPLEX RECEPTACLE
30/NF/3	DISCONNECT SWITCH: SEE KEY NOTES
$	LIGHT SWITCH –20A TOGGLE SWITCH (MANUAL ONLY)
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'–6" AFF TO CENTERLINE (LUTRON MSA102BL OR EQUAL)
SD	SMOKE/DUCT DETECTOR – COORDINATE WITH MECHANICAL CONTRACTOR/PLANS
OS	CEILING MOUNTED OCCUPANCY SENSOR (WATT STOPPER #DT–355 OR EQUAL)
ϕ	DIMMER SWITCH: LEVITON IP710DZL OR EQUIVALENT SLIDE DIMMER COMPATIBLE WITH LOW VOLTAGE LIGHTING FIXTURES AND RATED FOR LOAD NOTED IN PANEL SCHEDULE. REFER TO LOADS AT PANELBOARD SCHEDULE. MOUNTING HEIGHT AS INDICATED PER PLAN.
◭	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.
+12"	12" ABOVE FINISHED FLOOR TO CENTERLINE
F 5a	LIGHTING FIXTURE SWITCHING DESIGNATION – LETTER 'F' INDICATES THE FIXTURE TYPE (SEE FIXTURE SCHEDULE)
	PANELBOARD
	CONDUIT INSTALLED BELOW FLOOR SLAB
⊖ USB	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE WITH INTEGRAL 3 AMP (MIN) USB PORT
⊜	20A, 1P, 125V, DUPLEX RECEPTACLE CEILING MOUNTED
▫	LUTRON PICO 4–BUTTON WIRELESS REMOTE.

42K/10K SERIES RATED

NOTES	MOUNT: SURFACE		120/208		3-PHASE, 4W		PANEL A			CAPACITY: 400A			INT CAP:				NOTES
	LOCATION: UTILITY ROOM						LUGS: 400A MCB			DEMAND LOAD: 186A			AV. FAULT: 32.6KA				
	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	
	1	0.56					LIGHTING	20	1	A	60	2	HP-1			3.95			2	
	3	0.32					LIGHTING EXERCISE TAPE	20	1	B						3.95			4	
	5	0.54					SHOW WINDOW RECS	20	1	C	15	1	EF-2			0.70			6	
	7			0.70			EF-1	15	1	A	20	1	PANEL REC		0.18				8	
	9	1.20					EXTERIOR SIGN	20	1	B	20	1	LOBBY REC		0.18				10	
	11		0.36				HVAC REC	20	1	C	20	1	LOBBY CONVENIENCE REC		0.54				12	
	13				0.40		TIMECLOCK	20	1	A	20	1	EXERCISE CONVENIENCE REC		0.90				14	
	15		0.54				DESK RECS	20	1	B	60	2	HP-2			3.95			16	
A	17		0.18				EWC	20	1	C						3.95			18	
	19		0.36				BATHROOM REC	20	1	A	40	2	AHU-1 HEAT 1			4.11			20	
	21		0.54				A/V RACK	20	1	B						4.11			22	
	23		0.36				VANITY REC	20	1	C	40	2	AHU-1 HEAT 2			4.11			24	
	25		0.36				COACH REC	20	1	A						4.11			26	
B	27				1.44		HAND DRYER	20	1	B	35	2	AHU-2 HEAT 1			3.53			28	
B	29				1.44		HAND DRYER	20	1	C						3.53			30	
A	31				0.60		FRIDGE	20	1	A	35	2	AHU-2 HEAT 2			3.53			32	
B	33				0.60		MAG SECURITY	20	1	B						3.53			34	
	35				1.50		WATER HEATER	20	2	C	15	2	AHU-1			0.97			36	
	37				1.50					A						0.97			38	
	39				0.30		RECIRCULATION PUMP	20	1	B	15	2	AHU-2			0.97			40	
	41						SPARE	20	1	C						0.97			42	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	2.6 KVA	3.3 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	4.5 KVA	4.5 KVA	10KVA + 50% REMAINDER NEC 220.44	66.5 KVA	67.2KVA
A	22.2 KVA	33%	HVAC	51.6 KVA	51.6 KVA	LOAD X 100% (USED MCA IN CALCULATION)	184.6A	186.4A
B	25.1 KVA	38%	MISC	7.8 KVA	7.8 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	19.1 KVA	29%	KIT	0.0 KVA	0.0 KVA	65% PER NEC TABLE 220.56	CASE Engineering Inc.	

NOTES:
A. PROVIDE 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B. PROVIDE LOCK-ON BREAKER
C.



NOTE:
1. ALL RECEPTACLES AND DEVICES TO BE BLACK
2. DUPLEX RECEPTACLE : LEVITON R02-T5633-0BW - BLACK

B. COACH'S STATION ELEVATION

A. COACH'S STATION SECTION

2 E4-00 CONTROLS AT COACH'S STATION
SCALE: NTS

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Marina Court, St. Louis, MO 63026 | T 636.349.1600 F 636.349.1730

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DISTRICT OF COLUMBIA · MATTHEW RICHARD GISE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

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PERMIT COMMENTS

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ELECTRICAL PANELS/SCHEDULES

E4-00

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PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2017 DC Energy Code
Project Title: Solidcore - Union Market
Project Type: New Construction

Construction Site:
1326 5th Street
Northest, District of Columbia
20002

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Restrooms	130	0.98	127
2-Common Space Types:Electrical/Mechanical	144	0.42	60
3-Gymnasium/Fitness Center:Exercise Area	1322	0.61	806
4-Common Space Types:Lobby - General	697	0.85	592
5-Common Space Types:Corridor/Transition <8 ft wide	173	0.56	97
		Total Allowed Watts =	1684

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Common Space Types:Restrooms				
LED: Other:	1	2	11	22
LED: Other:	1	2	36	72
2-Common Space Types:Electrical/Mechanical				
LED: Other:	1	2	35	70
3-Gymnasium/Fitness Center:Exercise Area				
LED: Other:	1	8	11	88
LED: Other:	1	4	80	320
LED: Other:	1	1	36	36
4-Common Space Types:Lobby - General				
LED: Other:	1	5	10	50
LED: Other:	1	1	30	30
LED: Other:	1	1	60	60
5-Common Space Types:Corridor/Transition <8 ft wide				
LED: Other:	1	2	35	70
			Total Proposed Watts =	818

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2017 DC Energy Code requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MATTHEW CASE — Name - Title

3/6/26 — Date

DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

3/6/26

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2017 DC Energy Code

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
8.4.3 [PR15][2]	All forms of energy delivered to, produced by, and/or reclaimed by the building or building site are metered and all energy load types measured in accordance with Section 8.4.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10][2]	One 125-volt 15- and 20- amp duplex receptacle is in each private office and individual workstations located at the desk area and at least 50% of all 125 volt 15- and 20-Amp receptacles and 25% of the circuits feeding each base feed point of modular furniture (min 1 circuit) are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1 [EL1][2]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.2 [EL11][2]	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.5.2.1 [EL15][2]	Group R-1 occupancies >= 50 guest rooms automatically turn lights off 30 min. after occupants leave.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.5.2.2 [EL16][2]	Commerical and industrial storage stack areas dim >= 50% 20 min. after occupants leave.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.5.1 [FI27][2]	Hotels and motels with >= 50 guest rooms have automatic controls for each guest room configured to manage lighting, switched outlets, and televisions in accordance with Section 8.5.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Monte Coast
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET
NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

ENERGY CODE COMPLIANCE FORMS

E5-00

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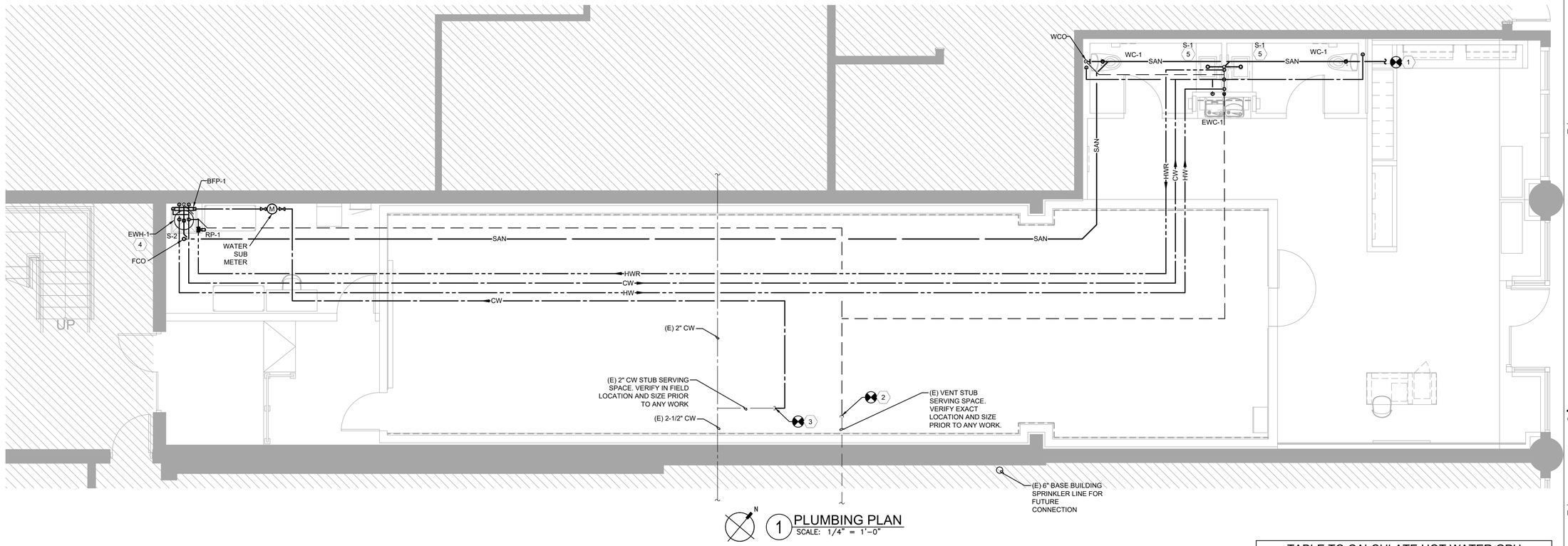
PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD



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

EXISTING SANITARY SEWER CONDITIONS NOTE:

SANITARY SEWER PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS. PLUMBING CONTRACTOR (PC) SHALL COORDINATE WITH EXISTING FIELD CONDITIONS VIA A SANITARY VIDEO SURVEY/SCOPE TO DETERMINE THE EXACT SIZE, LOCATION, INVERT ELEVATIONS AT THE PROPOSED CONNECTIONS TO EXISTING PLUMBING SERVICES PRIOR TO CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROM THOSE AS INDICATED ON PLANS, PC SHALL NOTIFY GENERAL CONTRACTOR (GC) IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. PC SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

PLUMBING CONTRACTOR SHALL CONFIRM EXACT SANITARY CONNECTION INVERT ELEVATION IS DEEP ENOUGH TO ACHIEVE GRAVITY FLOW AT CODE REQUIRED SLOPE FROM FURTHEST FIXTURE TO POINT OF CONNECTION PRIOR TO ANY FLOOR TRENCHING OR ROUGH IN WORK. CONTACT ENGINEER IMMEDIATELY IF GRAVITY DRAINAGE CAN NOT BE ACHIEVED WITH EXISTING FIELD CONDITIONS.

PLUMBING UTILITIES ENTERING BUILDING ARE DIAGRAMTIC AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS. P.C. SHALL COORDINATE WITH ALL OTHER TRADES, SPECIFICALLY WITH EXISTING FIELD CONDITIONS TO DETERMINE THE LOCATION AND CONNECTION TO EXISTING PLUMBING SERVICES PRIOR TO BID/CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROM THOSE ON INDICATED ON PLANS, PC SHALL NOTIFY GC IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. PC SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

PUMP SCHEDULE

MARK	MFR	MODEL	GPM	TDH	OUTLET	VOLT / PHASE	REMARKS
RP-1	GRUNDFOS	15-55 HWR SF/T	1	10	3/4"	120/1	1, 2

1. CONSULT MANUFACTURER PRIOR TO PURCHASE FOR EXACT MODEL AND ALL ACCESSORIES FOR A COMPLETE SYSTEM.
2. COORDINATE EXACT VOLTAGE/PHASE WITH EC PRIOR TO PURCHASE AND ROUGH IN

EXISTING WATER SERVICE CONDITIONS NOTE:

WATER PRESSURE IS SHOWN AS DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE IN FIELD PRIOR TO ANY WORK AND PIPING ROUGH IN. IF DISCOVERED ON SITE THAT EXISTING WATER PRESSURE IS LESS THAN 68 PSI, CONTACT ENGINEER IMMEDIATELY FOR PIPING DESIGN CHANGES. IF PRESSURE IS GREATER THAN 80 PSI PROVIDE PRESSURE REDUCING VALVE AND REDUCE DOWN TO 77 PSI.

PRIOR TO WORK VERIFY INCOMING WATER QUALITY TO SPACE. WHEN INCOMING WATER IS ABOVE 3.5 GRAINS PER GALLON (60 PARTS PER MILLION) SCALE BUILD-UP WILL FORM INSIDE THE PLUMBING SYSTEM CAUSING DAMAGE TO SYSTEM COMPONENTS AND COPPER PIPE. TO AVOID DAMAGE DUE TO SCALE BUILD-UP, EITHER A WATER SOFTENER OR ANTI-SCALE DEVICE SHOULD BE INSTALLED AT POINT-OF-ENTRY. APPLICATIONS WHERE THERE IS A CONCERN FOR WATER SPOTS ON GLASS SHOWER DOORS, GLASS DISHES, VEHICLES IN CARWASHES, ETC., AND/OR THE EFFECTS OF HARD WATER ON HUMAN SKIN, A WATER SOFTENER SHOULD BE USED INSTEAD OF AN ANTI-SCALE DEVICE. ANTI-SCALE DEVICES REDUCE THE FORMATION OF SCALE IN A PLUMBING SYSTEM BUT DO NOT REMOVE THE CALCIUM AND MAGNESIUM FROM THE WATER, WHICH WILL REMAIN ONCE THE WATER HAS EVAPORATE LEAVING WATER SPOTS AND/OR DRYING OUT HUMAN SKIN. WATER SOFTENERS REMOVE CALCIUM AND MAGNESIUM FROM THE WATER BUT REQUIRE ROUTINE REFILLING OF SALT LEVELS IN THE BRINE TANK.

LEGEND

WATER SERVICE	CIP	CAST IRON PIPE	FD FLUSH FLOOR DRAIN AND GRATE
COLD WATER SUPPLY PIPING	CP	CHROME PLATED	POINT OF CONNECTION TO EXISTING
HOT WATER SUPPLY PIPING	ETR	EXISTING TO REMAIN	
HOT WATER RETURN PIPING	FCO	FLOOR CLEANOUT	
SANITARY DRAINAGE & WASTE PIPING/SEWER	FD	FLOOR DRAIN	
SANITARY VENT PIPING	GCO	GROUND CLEANOUT	
G NATURAL GAS PIPING	GW	GREASE WASTE	
LINE SIZE GATE VALVE	NC	NEW CONNECTION	
LINE SIZE BALL VALVE (2" & SMALLER)	SAN	SANITARY	
LINE SIZE BALANCING VALVE	V	VENT	
LINE SIZE CHECK VALVE	WCO	WALL CLEAN OUT	
LINE SIZE UNION	VTR	VENT THRU ROOF	
LINE SIZE GAS COCK VALVE	W	WASTE	
AFF ABOVE FINISHED FLOOR	FS.	RECOMMENDED FLOOR SINK LOCATION. VERIFY WITH ARCHITECT.	
CB CAST BRASS	IND	INDIRECT WASTE DRAIN, HUB DRAIN, FLOOR DRAIN W/ FUNNEL OR SIMILAR. VERIFY WITH ARCHITECT	

WATER HEATER SCHEDULE

MARK	MFR	MODEL	EFFICIENCY	STORAGE	RECOVERY	°F. RISE	VOLT / PHASE	KW	REMARKS
EWH-1	AO SMITH	DEL-10	98%	10 GAL	12 GPH	100	208 / 1	3KW	1,2

1. SET WATER HEATER STORAGE TEMPERATURE TO 140°F
2. UNIT FURNISHED AND INSTALLED BY GC

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SAN.	VENT	C.W.	H.W.	REMARKS
WC-1	ADA FLOOR MOUNTED WATER CLOSET TOTO ULTRAMAX II ONE-PIECE TOILET, 1.28 GPF	4"	2"	3/4"	-	MS604124CEFG (LEFT) MS504124CEFRG (RIGHT) PROVIDE TRIP LEVER ON OPEN SIDE OF ADA TOILET
S-1	UNDERMOUNT SINK KOHLER K-2882-0	1-1/2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA, RECANGULAR BASIN WITH CONTEMPORARY DESIGH, W/OVERFLOW. PROVIDE WITH SLOAN OPTIMA SENSOR FAUCET EAF-250-ISM IN GRAPHITE AND ASSE 1070 MIXING VALVE SET AT 105°.
S-2	FIAT MSB2424 MOP SINK BASIN	3"	2"	3/4"	3/4"	MOLDED STONE. FIAT 830-AA SERVICE FAUCET CHROME PLATED
EWC-1	ELECTRIC WATER COOLER HALSEY TAYLOR HTHB-HACG8BLPV-WF	2"	2"	1/2"	-	BI-LEVEL REFRIGERATED BOTTLE FILLING STATION
BFP-1	WATTS LF919QT	-	-	1"	-	RPZ, DRAIN INTO S-2
MV-1	ACORN ST-70 THERMOSTATIC MIXING VALVE	-	-	1/2"	1/2"	-

NOTE:

1. POINT OF USE THERMOSTATIC MIXING VALVES MUST BE INSTALLED AT EACH FIXTURE REQUIRING ADA & IAC THERMAL PROTECTION.
2. WATER HAMMER ARRESTORS AND ISOLATION VALVES SHALL BE PROVIDED AT EVERY FIXTURE SUPPLY. SEE DETAIL ON DRAWING P2-01 FOR ADDITIONAL INFORMATION.
3. ALL FLOOR CORE DRILLING TO BE X-RAYED AND APPROVED BY LL STRUCTURAL ENGINEER PRIOR TO START OF WORK.

TABLE TO CALCULATE HOT WATER GPH

PLUMBING FIXTURE	WATER GALLONS PER HOUR	NO. OF FIXTURES	TOTAL HOT WATER GPH
MOP SINK	10	1	10
LAVATORIES	5	2	10
TOTAL HOT WATER GALLONS PER HOUR FOR ALL FIXTURES:			20 GPH
10	GALLONS USABLE STORAGE (75% TOTAL STORAGE)		8 GALLONS
TOTAL HOT WATER GALLONS PER HOUR NEEDED FOR RECOVERY:			12.5 GPH
TEMPERATURE RISE (°F)			100 °F
GPH RECOVERY x 8.33 x TEMP. RISE / THERMAL EFFICIENCY	X (DEMAND FACTOR %)		TOTAL BTU NEEDED FOR RECOVERY
10,846 BTU	0.75		8,135 BTU
BTU -> KW CONVERSION	3,413 BTU / KW		2.4 kW

TABLE TO CALCULATE DRAINAGE FIXTURE UNITS

PLUMING FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
WATER CLOSET	4	2	8
LAVATORIES	1	2	2
MOP SINK	3	1	3
ELECTRIC WATER COOLER	1	1	1
TOTAL DRAINAGE FIXTURE UNITS			14

TABLE TO CALCULATE WATER FIXTURE UNITS

PLUMING FIXTURE	SUPPLY FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL SUPPLY FIXTURE UNITS
WATER CLOSET	5.0	2	10.0
LAVATORIES	2.0	2	4.0
MOP SINK	3.0	1	3.0
ELECTRIC WATER COOLER	0.5	1	0.5
TOTAL SUPPLY FIXTURE UNITS			17.5
WATER SERVICE SIZE, TYPE L COPPER:			1"

PLUMBING KEYED NOTES

1. SANITARY WASTE PIPING SHALL ROUTE TO CONNECT TO EXISTING SANITARY WASTE PIPING OR SITE SANITARY SEWER SERVING SPACE. PLUMBING CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, ROUTING, AND CONNECTION REQUIREMENTS WITH LANDLORD AND UTILITY COMPANY PRIOR TO ANY WORK AND PERFORMING ANY EXCAVATION WORK.
2. ROUTE TO CONNECT TO LANDLORD VENT CONNECT IN SPACE. VERIFY EXACT SIZE AND LOCATION IN FIELD AND WITH LANDLORD PRIOR TO WORK. AT POC, THE EXISTING VENT PIPE SHALL NOT BE SMALLER THAN THE NEW EXISTING PIPING.
3. ROUTE NEW 1" WATER LINE BACK TO CONNECT INTO EXISTING 2" WATER LINE TO PREMISES . VERIFY EXACT LOCATION IN FIELD. PLUMBING CONTRACTOR SHALL PROVIDE AN ALTERNATE BID TO PROVIDE A NEW REDUCED PRESSURE ZONE BACKFLOW PREVENTER ABOVE LAUNDRY TUB IF THE EXISTING BUILDING DOMESTIC WATER SUPPLY DOES NOT ALREADY EXIST AND IF REQUIRED BY LOCAL AHJ. PROVIDE PRESSURE REDUCING VALVE IF FOUND THAT PRESSURE IS GREATER THAN 80 PSI. REDUCE DOWN TO 77 PSI. SYSTEM IS SIZED FOR 60 PSI. VERIFY PRESSURE IN FIELD PRIOR TO ANY WORK.
4. PROVIDE WATER HEATER ON PLATFORM OVER MOP SINK. SEE DETAIL 3/A7-10. SEE WATER HEATER SCHEDULE.
5. PROVIDE AND INSTALL ANTI-SCALD MIXING VALVE AT HAND WASH FIXTURES TO TEMPER HOT WATER AT FOR PUBLIC USE. SET VALVE FOR HOT WATER DISCHARGE AT SINK TO 105°F MAXIMUM.

PLOT DATE: 5/12/2026 11:11 AM PLOTTED BY: LUKE WILD

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Merus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC
20002

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PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER
5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

PLUMBING PLAN

P1-01

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PLUMBING GENERAL AND PRE-BID NOTES

1. PLUMBING CONTRACTOR SHALL ABIDE BY THE LOCAL CODES AND ORDINANCES. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS AND ALL AUTHORITIES HAVING JURISDICTION AND LANDLORD'S/TENANT CRITERIA.

2. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER CONFLICTING REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO ARCHITECT/ENGINEER FOR A DECISION BEFORE PROCEEDING.

3. PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, INCLUDING THE DEPTHS OF ALL BELOW GRADE SANITARY SEWERS, PRIOR TO START OF WORK. THIS DRAWING IS NOT INTENDED TO INDICATE ALL EXISTING UTILITIES. VIDEO SURVEY EXISTING SANITARY WASTE AND GREASE WASTE (IF APPLICABLE) PIPING AND INSPECT AND PROVIDE REPORT OF THE QUALITY OF EXISTING PIPING. REMOVE ANY CLOGS, OBSTRUCTIONS AND MAKE REPAIRS TO ANY DAMAGED SECTIONS OF EXISTING PIPING. VERIFY THAT SEWER HAS SUFFICIENT DEPTH FOR THE NEW WORK AND TO VERIFY THE DIRECTION OF FLOW. PRESSURE TEST THE EXISTING SANITARY DRAIN PRIOR TO THE START OF WORK. VERIFY THAT SEWER IS ACTIVE BY FLUSHING WITH WATER, A MINIMUM OF FIVE GALLONS PER MINUTE FOR FOUR HOURS PRIOR TO START OF WORK. REPEAT PRESSURE TEST FOLLOWING COMPLETION OF THE WORK AND PRIOR TO HANDLING OVER THE SPACE TO THE CLIENT. PROVIDE REPORT DOCUMENTATION OF COMPLETED PRESSURE TEST WITH CLOSEOUT PACKAGE.

4. PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, INCLUDING THE DEPTHS, SIZES AND EXISTING PRESSURES OF ALL BELOW GRADE DOMESTIC WATER SERVICES, PRIOR TO START OF WORK. THIS DRAWING IS NOT INTENDED TO INDICATE ALL EXISTING UTILITIES. CONTRACTOR SHALL VERIFY EXISTING STATIC AND RESIDUAL WATER PRESSURE PRIOR TO ANY WORK. CONTACT ENGINEER IMMEDIATELY IF ANY DISCREPANCIES FROM THE PRESSURES LISTED ON DRAWINGS ARE DISCOVERED.

5. CONTRACTOR SHALL BE FAMILIAR WITH LANDLORD'S AND TENANT STANDARDS (IF APPLICABLE), RULES AND REGULATIONS. OBTAIN COPY OF CRITERIA PACKAGE AND CONFORM TO ALL REQUIREMENTS. ALL LANDLORD'S AND TENANT CRITERIA SHALL BE COMPILED WITH AND INCLUDED IN THIS BID.

6. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND FIELD VERIFY EXISTING CONDITIONS TO ENSURE THAT THE WORK REPRESENTED ON THE DRAWINGS AND IN THESE SPECIFICATIONS CAN BE INSTALLED AS INDICATED. CONTRACTOR SHALL TAKE ALL INTERFERENCES INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS TO SUIT FIELD CONDITIONS AS REQUIRED.

7. CONTRACTOR SHALL COORDINATE FULLY WITH ALL DISCIPLINES AND EXISTING FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK SO THAT CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING OR DELAYING WORK UNDER THIS CONTRACT. NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ANY WORK.

8. MAKE ALL UTILITY CONNECTIONS AND INSTALLATIONS IN FULL ACCORDANCE WITH ALL LOCAL UTILITY REGULATIONS. PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED BY UTILITY COMPANY. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY, AND THE MANUFACTURER'S STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION. CONTRACTOR SHALL COORDINATE CONNECTION REGULATIONS WITH LOCAL UTILITY PRIOR TO PERFORMING ANY WORK.

9. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS RELATED TO THE INSTALLATION OF THE WORK.

10. CONTRACTOR SHALL NO INTERRUPT UTILITIES SERVING OTHER FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED BY THE FOLLOWING CONDITIONS.
    - 10.1. NOTIFY ARCHITECT, CONSTRUCTION MANAGER, LANDLORD AND TENANT NOT LESS THAN 2 DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
    - 10.2. OBTAIN WRITTEN PERMISSION BEFORE PROCEEDING WITH UTILITY INTERRUPTIONS.

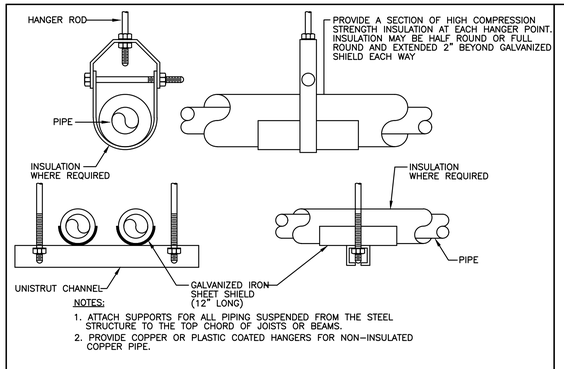
11. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL FIXTURES AND EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.

12. CONTRACTOR SHALL COORDINATE TIMES TO WORK IN SPECIFIC AREA OF THE EXISTING BUILDING (IF APPLICABLE) WITH THE LANDLORD/BUILDING MANAGER AND WITH THE OCCUPANTS OF THE AREA AFFECTED BY THE WORK.

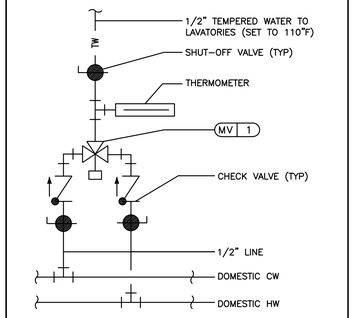
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AS-BUILT DRAWINGS. IT IS IMPORTANT TO NOTE THAT THIS EFFORT MUST BE MADE THROUGHOUT THE COURSE OF THE PROJECT AND THAT PLUMBING AS-BUILT DRAWINGS, IN PARTICULAR, CANNOT BE ACCURATELY CREATED AFTER SLABS ARE POURED, WALLS ARE CLOSED AND CEILINGS ARE IN PLACE. FOR THIS REASON, A SET OF CONSTRUCTION DOCUMENTS SHOULD BE KEPT AT THE JOB-SITE, CLEARLY MARKED "AS-BUILT" AND CONTINUALLY UPDATED AS WORK IS INSTALLED.THIS SET SHOULD BE MADE AVAILABLE FOR ROUTINE VIEWING, NOT FOR REVIEW, BUT SIMPLY TO ENSURE THAT THE AS-BUILT DRAWING EFFORT IS IN PROCESS.

14. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL EQUIPMENT BEING PROPOSED AND INSTALLED FOR THIS CONTRACT. IF THE CONTRACTOR PROCEEDS WITHOUT APPROVED SHOP DRAWINGS, HE ASSUMES ALL RISK ASSOCIATED WITH THE REMOVAL AND REPLACEMENT OF THE WORK INCLUDING COST AND SCHEDULE IMPACTS. BY SUBMITTING SUBSTITUTIONS, THE CONTRACTOR REPRESENTS AND WARRANTS THAT THEY HAVE PERSONALLY INVESTIGATED THE PROPOSED SUBSTITUTION PRODUCT AND DETERMINED THAT IT IS EQUAL TO OR SUPERIOR IN ALL RESPECTS TO THAT SPECIFIED ON THE CONSTRUCTION DOCUMENTS AND CERTIFIES THAT IT INCLUDES ALL RELATED COSTS UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ANY MECHANICAL, PLUMBING, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL REQUIREMENTS FOR THIS PROJECT. PROVIDE THE FOLLOWING INFORMATION FOR ALL SHOP DRAWINGS.
    - 14.1. MANUFACTURERS CUTS, INSTALLATION MANUALS AND PRODUCT SPECIFICATIONS.
    - 14.2. CLEARLY INDICATED OPTIONS AND ACCESSORIES.
    - 14.3. COMPLIANCE WITH REFERENCED STANDARDS AND LISTINGS.
    - 14.4. NOTATION FOR COORDINATION REQUIREMENTS.
    - 14.5. AVAILABILITY AND DELIVERY TIME INFORMATION.
    - 14.6. WIRING DIAGRAMS, PERFORMANCE CURVES AND DETAILED DESCRIPTION OF EQUIPMENT ANCHORAGE.

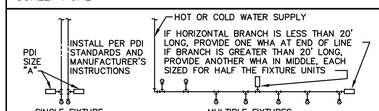
15. ANY REQUESTS FOR INFORMATION (RFI) ARE TO BE MADE IN WRITING. THE REPEATED OCCURRENCE OF URGENT RFIS IS AN INDICATION THAT THE CONTRACTOR IS NOT ADDRESSING COORDINATION IN A TIMELY FASHION. RFIS MUST INCLUDE A REFERENCE TO THE PLAN OR SPECIFICATION IN QUESTION AND A COMPLETE DESCRIPTION OF THE CONFLICT OR AMBIGUITY. THEY MUST ALSO INCLUDE SKETCHES, PHOTOGRAPHS, MANUFACTURER'S INFORMATION AND/OR CODE SECTIONS. A SUGGESTED SOLUTION WITH COST AND TIME IMPACTS IS ALSO REQUIRED.



PIPE HANGER DETAIL
SCALE: NONE



TEMPERING VALVE DETAIL
SCALE: NONE

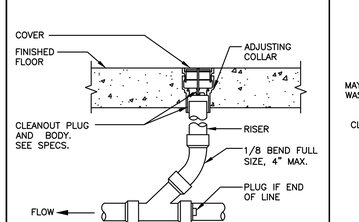


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1–11
B	3/4"	12–32
C	1"	33–60
D	1–1/4"	61–113
E	1–1/2"	114–154
F	2"	

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

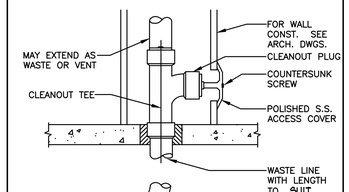
PC TO PROVDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

WATER HAMMER ARRESTOR DETAIL
SCALE: NONE

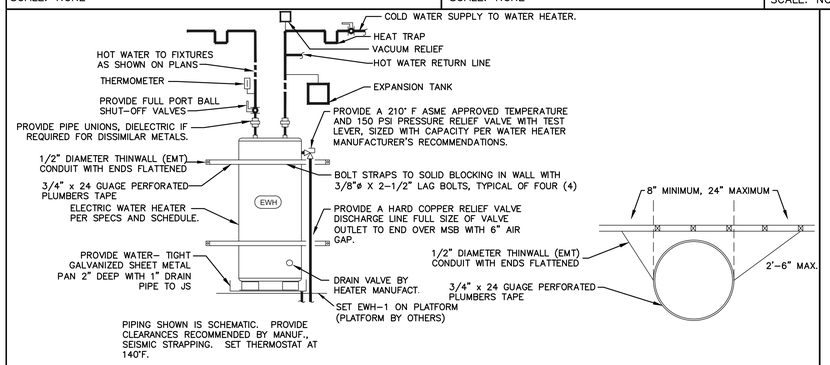


NOTE:
CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

FLOOR CLEAN-OUT DETAIL
SCALE: NONE

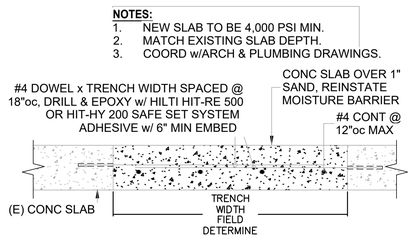


WALL CLEAN-OUT DETAIL
SCALE: NONE



ELECTRIC WATER HEATER DETAIL
SCALE: NONE

NOTES:
1. NEW SLAB TO BE 4,000 PSI MIN.
2. MATCH EXISTING SLAB DEPTH.
3. COORD w/ARCH & PLUMBING DRAWINGS.



TRENCH REPAIR DETAIL
SCALE: NONE

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Merus Court, St. Louis, MO 63026 | T 636.349.1600 | F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC 20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA · MATTHEW RICHARD CASE · PE922460 · MECHANICAL · PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

PLUMBING DETAILS

P2-01

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PLOT DATE: 5/12/2026 11:07 AM PLOTTED BY: LUKE WILD

DIVISION 15 - PLUMBING SPECIFICATIONS

1. GENERAL
   A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, AND ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL BE PART OF THESE SPECIFICATIONS.
   B. THE WORD "PROVIDE" AS USED HEREIN MEANS TO FURNISH AND INSTALL COMPLETE.

2. PRIOR TO BIDDING:
   A. THOROUGHLY REVIEW THE BID INSTRUCTIONS INCLUDING ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND MEPFP CONSTRUCTION DOCUMENTS. IF CONTRACTOR BELIEVES THE DRAWINGS AND SPECIFICATIONS CONFLICT WITH CODE REQUIREMENTS, IMMEDIATELY NOTIFY THE ARCHITECT (ENGINEER) IN WRITING. NO ALLOWANCES WILL BE MADE DUE TO CONTRACTOR'S UNFAMILIARITY WITH THE CONSTRUCTION DOCUMENTS.
   B. VISIT THE JOB SITE AND THOROUGHLY INVESTIGATE CONDITIONS. THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
   C. REFER TO APPLICABLE CODES CITED IN CONSTRUCTION DOCUMENTS, EXAMINE GOVERNING STATE AND LOCAL CODES, AND LOCAL REGULATIONS AND ORDINANCES, AND PROVIDE ALL EQUIPMENT AND INSTALLATIONS IN STRICT ACCORDANCE WITH SAME.
   D. REFER TO CONSTRUCTION DOCUMENTS FOR SCHEDULED AND SPECIFIED MATERIALS AND EQUIPMENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS.
   E. PROVIDE ALL WORK IN STRICT ACCORDANCE WITH THE LANDLORD'S CONSTRUCTION CRITERIA AND TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THE LANDLORD CRITERIA AND TENANT/LANDLORD AGREEMENT AND THEY SHALL BE PART OF THESE SPECIFICATIONS. NO ALLOWANCES WILL BE MADE DUE TO CONTRACTOR'S UNFAMILIARITY WITH THESE DOCUMENTS.

3. PERMITS
   A. SECURE AND PAY FOR ALL PERMITS AND LICENSES REQUIRED BY THE AHJ FOR THIS WORK.

4. SUBSTITUTIONS
   A. MANUFACTURERS' EQUIPMENT AND MATERIALS SCHEDULED, NOTED, AND SPECIFIED IN THE CONSTRUCTION DOCUMENTS ARE THE DESIGN STANDARD. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT OR ENGINEER. IN BIDDING, DO NOT ASSUME ACCEPTANCE OF SUBSTITUTIONS. CONTRACTOR MUST STATE IN SUBSTITUTION REQUEST: "PROPOSED SUBSTITUTIONS ARE EQUAL OR OF HIGHER QUALITY, EFFICIENCY AND DEPENDABILITY TO SPECIFIED EQUIPMENT AND MATERIAL. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO SUBSTITUTIONS." IF DEEMED NECESSARY BY THE ARCHITECT OR ENGINEER, SUBSTITUTIONS WHICH ARE NOT APPROVED OR NOT EQUAL TO DESIGN STANDARD SHALL BE REMOVED AND THE SCHEDULED, NOTED, AND SPECIFIED EQUIPMENT AND MATERIALS SHALL BE INSTALLED AT CONTRACTOR'S EXPENSE. SUBMITTING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ADDITIONAL ENGINEERING COSTS AND COSTS TO OTHER CONTRACTORS DUE TO SUBSTITUTIONS.

5. SCHEDULING
   A. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION AS SCHEDULED BY THE GC. PROVIDE COMPLETE INFORMATION AND FULL COOPERATION WITH OTHER CONTRACTORS AND TRADES, AS REQUIRED FOR THE TIMELY COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
   B. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY AHJ INCLUDING BUT NOT LIMITED TO ALL DWV, STORM, AND WATER SYSTEM LEAK TESTS. SCHEDULE INSPECTIONS WITH AHJ.
   C. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE PROJECT COMPLETION.

6. SCOPE
   A. PROVIDE PERMIT(S), FINAL CERTIFICATE(S) OF INSPECTION BY AHJ, AND ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE AND FULLY OPERATING PLUMBING SYSTEM.
   B. DEMOLITION: REFER TO THE ARCHITECTURAL DRAWINGS FOR THE GENERAL SCOPE OF DEMOLITION. THIS CONTRACTOR SHALL DISCONNECT AND CAREFULLY REMOVE ALL EXISTING PLUMBING EQUIPMENT AND PIPING LOCATED IN DEMOLISHED AREAS INCLUDING ROOF, PLENUMS, CEILINGS, WALLS, AND FLOORS. U.N.O., DISCONNECT AND REMOVE EXISTING PLUMBING SYSTEMS COMPLETE, INCLUDING FIXTURES, WATER HEATERS, EQUIPMENT, HOUSEKEEPING PADS, FLUES, VENTS, INSULATION, AND PIPING LOCATED IN THESE AREAS. ALL PLUMBING SYSTEM COMPONENTS INCLUDING PUMPS, MOTORS, CONTROL DEVICES, GAUGES, THERMOMETERS, SENSORS, ACTUATORS, HANGERS, RESTRAINTS, MOUNTING HARDWARE, ETC., SHALL BE REMOVED AND LEGALLY DISPOSED OF BY THIS CONTRACTOR.
   C. UNLESS NOTED OTHERWISE, ABANDONMENT IN PLACE (AIP) IS NOT ACCEPTABLE. UNUSED EQUIPMENT, PIPING, AND OTHER COMPONENTS WITHIN OR SERVING THIS SPACE MUST BE COMPLETELY REMOVED TO POINT OF ORIGIN. ENDS OF SYSTEMS BEYOND GENERAL SCOPE OF DEMOLITION MAY BE ABANDONED ONLY WITH WRITTEN APPROVAL OF ARCHITECT (ENGINEER). WHERE THESE ABANDONED ENDS TERMINATE, TRIM CLEANLY AND PROPERLY CAP OR SEAL IN AN APPROVED MANNER, LEAVING TERMINATION SAFE AND SECURE BEHIND NEW FINISHES. MAINTAIN SYSTEM CONTINUITY TO PLUMBING SYSTEMS SERVING AREAS BEYOND GENERAL DEMOLITION, AS NEEDED. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL, MODIFICATION AND/OR REINSTALLATION OF EQUIPMENT, AS NEEDED. COMPLETION OF THIS PROJECT SHALL INCLUDE RETURNING THESE ADJACENT AREAS TO FULLY FUNCTIONING OPERATION.
   D. CONTRACTOR SHALL PROVIDE DAILY CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH GENERATED BY THIS WORK.
   E. AS-BUILT DRAWINGS: DURING CONSTRUCTION, AS WORK PROCEEDS, MAINTAIN ON-SITE AS-BUILT MARK-UPS OF ACTUAL INSTALLATION. AT CONSTRUCTION COMPLETION AND PRIOR TO TURNOVER TO OWNER (TENANT), PROVIDE FINAL MARK-UPS IN PDF FORMAT TO ARCHITECT AND ENGINEER.
   F. PROVIDE FINAL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS, AS NOTED (GAS FIRED APPLIANCES/EQUIPMENT, COMMERCIAL KITCHEN APPLIANCES/EQUIPMENT, LAUNDRY EQUIPMENT, IRRIGATION, ETC.).
   G. DO NOT ROUTE ANY PIPING ABOVE ELECTRICAL PANELS.
   H. UNLESS NOTED OTHERWISE, ALL PIPE SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALLS, BEAMS, OR COLUMNS. PIPE SHALL BE RUN AS DIRECT AS POSSIBLE - AVOID UNNECESSARY OFFSETS AND MAXIMIZE HEADROOM.
   I. PRIOR TO ORDERING EQUIPMENT, THIS CONTRACTOR SHALL PROVIDE FINAL COORDINATION OF ELECTRICAL POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
   J. CONTRACTOR SHALL MAINTAIN ACTIVITIES WITHIN AREA APPROVED BY OWNER OR GC. CONTRACTOR'S ACTIVITIES SHALL NOT INTERFERE WITH THE OWNER'S OPERATIONS, EXCEPT AS APPROVED.
   K. EXCEPT THOSE COORDINATED AND APPROVED BY THE G.C., CONTINUITY OF ALL BUILDING SERVICES AND UTILITIES SERVING BUILDING FACILITIES SHALL BE MAINTAINED UNINTERRUPTED AT NO ADDITIONAL COST. PROVIDE ALL NECESSARY CROSS CONNECTIONS AND TEMPORARY CONNECTIONS REQUIRED TO PERFORM THE CONSTRUCTION, AS DETERMINED BY THE G.C., AND NEEDED TO MAINTAIN CONTINUITY OF THE BUILDING SERVICE(S). THIS CONTRACTOR SHALL SCHEDULE WORK SUCH THAT ANY AND ALL CONNECTIONS, AND/OR REARRANGEMENT OF EXISTING EQUIPMENT, PIPING, ETC., SHALL ASSURE FULL RESUMPTION OF SERVICE(S) AT THE G.C.'S DESIGNATED TIME.

7. UTILITIES
   A. THE DRAWINGS ARE NOT INTENDED TO INDICATE ALL EXISTING UTILITIES. PRIOR TO START OF WORK, PLUMBING CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND SIZES OF ALL UTILITIES, PER THE FOLLOWING:
      i. DOMESTIC WATER: IDENTIFY THE DEPTHS, SIZES, AND STATIC AND RESIDUAL PRESSURES OF ALL BELOW GRADE DOMESTIC WATER SERVICES. NOTIFY THE GC IN WRITING OF ANY DISCREPANCIES FROM THE LOCATIONS, SIZE(S), AND PRESSURES LISTED ON THE DRAWINGS.
      ii. SANITARY SEWERS: VERIFY THAT SEWER HAS SUFFICIENT DEPTH FOR THE NEW WORK AND VERIFY THE DIRECTION OF FLOW. NOTIFY THE GC IN WRITING OF ANY DISCREPANCIES FROM THE LOCATIONS, SIZE(S), AND DIRECTION OF FLOW LISTED ON THE DRAWINGS. PERFORM A FLOW TEST OF THE EXISTING SANITARY DRAIN WITH A MINIMUM OF FIVE GPM FOR TWO HOURS. REPORT ANY FLOW DEFICIENCIES IN WRITING TO GC INCLUDING FEE PROPOSAL TO REMOVE ANY OBSTRUCTIONS.
   B. PROVIDE ALL UTILITY CONNECTIONS AND INSTALLATIONS IN STRICT ACCORDANCE WITH UTILITY AND AHJ REGULATIONS. CONTRACTOR SHALL COORDINATE CONNECTION REGULATIONS WITH LOCAL UTILITY PRIOR TO PERFORMING ANY WORK. PROVIDE ALL ADDITIONAL APPURTENANCES, AS REQUIRED.
   C. PROVIDE TEMPORARY WATER SERVICE TO THE BUILDING FOR CONSTRUCTION REQUIREMENTS.

8. CODE REQUIREMENTS
   A. ALL WORK SHALL COMPLY WITH THE CONSTRUCTION DOCUMENTS, OR AS DIRECTED BY THE ARCHITECT (ENGINEER), AND SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE AHJ, WHETHER SO SHOWN OR NOT. IF CONTRACTOR BELIEVES THE DRAWINGS AND SPECIFICATIONS CONFLICT WITH CODE REQUIREMENTS, IMMEDIATELY NOTIFY THE G.C. IN WRITING. DO NOT INSTALL WORK NOT COMPLYING WITH CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. AS A MINIMUM STANDARD, CONTRACTOR SHALL SATISFY CODE REQUIREMENTS WITHOUT ANY EXTRA COST TO OWNER. ALL MODIFICATIONS REQUIRED BY AHJ SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

9. CUTTING & PATCHING
   A. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR EQUIPMENT OR PIPE. PRIOR TO CUTTING, PERFORM NON-DESTRUCTIVE TESTING TO VERIFY LOCATION OF STRUCTURAL COMPONENTS. NOTIFY ARCHITECT (ENGINEER) OF ANY DISCREPANCIES. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACE AND READY TO RECEIVE FINISH. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING. ALL ROOF WORK SHALL MEET WARRANTY REQUIREMENTS OF EXISTING ROOFING. COORDINATE REQUIRED OPENINGS AND PENETRATIONS WITH THE GC AND OTHER TRADES. (OPENINGS IN FOUNDATIONS, FLOORS, WALLS, CEILINGS, AND ROOF SHALL BE BUILT INTO THE STRUCTURE WITH SLEEVES, CURBS, ETC.)

10. FIRE STOPPING
   A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY PIPING AND/OR OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES), AND VERTICAL SERVICE SHAFT WALLS AND PARTITIONS. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF CONSTRUCTION BEING PENETRATED. INSTALL IN STRICT ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY, AHJ, AND MANUFACTURER'S SPECIFIED REQUIREMENTS. ONLY TESTED FIRESTOP SYSTEMS BY "3M", "HILTI", OR EQUAL SHALL BE USED. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATING.

11. MATERIALS AND WORKMANSHIP
   A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE NEW U.N.O., FREE OF DEFECTS, AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS, AND INDEPENDENTLY TESTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY - UNDERWRITERS LABORATORIES (UL) OR INTERTEK (ETL). ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY U.N.O.
   B. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. ALL MATERIALS INSTALLED IN PLENUM SPACES SHALL BE LISTED AND LABELED FOR SUCH APPLICATION.
   C. ALL WORK SHALL BE SUPERVISED BY THE INSTALLING CONTRACTOR'S COMPETENT AND SKILLED FOREMAN. ALL WORK SHALL BE PERFORMED BY COMPETENT AND SKILLED WORKERS, WITH ALL TRADE AND MANUFACTURER REQUIRED TRAINING, AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE AND IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS, INCLUDING APPLICABLE OSHA REGULATIONS. PROPERLY PROTECT WORK DURING CONSTRUCTION. AT CONSTRUCTION COMPLETION, THOROUGHLY CLEAN WORK AND REMOVE ALL DEBRIS FROM THE PREMISES.

12. PROTECTION OF WORK AND PROPERTY
   A. PROTECT ALL WORK FROM DAMAGE AND PROTECT THE OWNER'S PROPERTY FROM DIRT, DAMAGE, OR LOSS ARISING FROM CONTRACTOR WORK.
   B. COMPLY WITH OSHA REQUIREMENTS AND TAKE ALL NECESSARY PRECAUTIONS FOR EMPLOYEE SAFETY.
   C. PROTECT ALL OPEN PIPING AND EQUIPMENT, EXISTING AND NEW FROM CONSTRUCTION DIRT AND DUST. COVER, CAP, OR PLUG OPEN ENDS OF PIPING. KEEP EQUIPMENT CLOSED OR COVER AND SEAL EQUIPMENT OPENINGS.

13. DAMAGE BY LEAKS
   A. THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO THE PROPERTY (GROUNDS, WALKS, ROADS, BUILDING COMPONENTS, FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS, HVAC SYSTEMS, AND THEIR EQUIPMENT AND CONTENT) CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED AS PART OF THIS WORK. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

14. DRAWINGS AND SPECIFICATIONS
   A. DRAWING ARE DIAGRAMMATIC AND INTENDED TO SHOWN GENERAL LOCATIONS OF PIPES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHODS OF CONNECTING AND CONTROL. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF DOORS, WINDOWS, LIGHTS, ETC.
   B. PRIOR TO INSTALLING EQUIPMENT OR PIPE COORDINATE PROPOSED LOCATIONS OF EQUIPMENT AND PIPE WITH EACH DISCIPLINE, GC, AND EACH TRADE. EXAMINE EACH DISCIPLINE'S DRAWINGS FOR CONSTRUCTION DETAILS, CEILING HEIGHTS, REQUIRED CLEARANCES, AND SPACE CONSTRAINTS. PROVIDE SYSTEMS INSTALLATION BASED ON THIS EXAMINATION AND COORDINATION. IMMEDIATELY REPORT INSTALLATION CONFLICTS IN WRITING TO THE GC. RESOLVE ALL CONFLICTS WITH GC AND OTHER TRADES PRIOR TO PROCEEDING. INSTALLING CONTRACTOR IS FULLY RESPONSIBLE FOR CORRECT INTERPRETATION AND APPLICATION OF ALL SIZES AND DIMENSIONS.
   C. IF THE CONTRACTOR BELIEVES CHANGES TO THE CONTRACT DRAWINGS ARE NECESSARY, SHOP DRAWINGS WITH WRITTEN DESCRIPTIONS OF THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE ARCHITECT (ENGINEER) FOR APPROVAL.
   D. ALL PIPE, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED WATERPROOF. PROVIDE ALL FLASHING FOR PIPE AND OTHER PENETRATIONS OF THE BUILDING ENVELOPE. PROVIDE PIPE SLEEVES AT WALL PENETRATIONS. SEAL ANNULAR SPACE WEATHER TIGHT.

15. PIPING
   A. SEE PIPE SCHEDULE FOR PIPE MATERIALS AND PIPE INSULATION.
   B. DO NOT INSTALL PVC PIPING IN PLENUM AREAS.
   C. UNLESS NOTED OTHERWISE: INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL WATER PIPING LEVEL AND VERTICAL PIPING PLUMB. PIPING SUSPENDED FROM A SLOPING ROOF STRUCTURE MAY FOLLOW ROOF SLOPE. WHERE FEASIBLE, INSTALL STORM, DRAIN, AND SANITARY PIPE AT 2% SLOPE BUT NOT LESS THAN 1% SLOPE. IN FINISHED AREAS, ALL PIPING SHALL BE CONCEALED. ALL PIPE SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALLS, BEAMS, OR COLUMNS. PIPE SHALL BE RUN AS DIRECT AS POSSIBLE - AVOID UNNECESSARY OFFSETS AND MAXIMIZE HEADROOM. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS ARE ALLOWED.
   D. EXCAVATE TRENCHES TO THE PROPER DEPTH AND FOR STORM AND SANITARY PIPING, GRADE TO PRODUCE THE REQUIRED FALL.
   E. BRANCH TAKE-OFFS SHALL BE MADE WITH SWING CONNECTIONS AS REQUIRED TO AVOID STRESS AT THESE POINTS.
   F. INSTALLATION SHALL NOT EXPOSE ANY WET PIPE TO FREEZING CONDITIONS. WHERE WET PIPE IS SHOWN IN EXTERIOR WALL, INSTALL PIPE TIGHT TO INTERIOR SIDE OF WALL AND COORDINATE WITH G.C. INSTALLATION OF WALL INSULATION BETWEEN PIPE AND EXTERIOR WALL SURFACE.
   G. PROVIDE FLOOR AND/OR WALL CLEANOUTS AS INDICATED ON THE DRAWINGS AND WHERE REQUIRED BY CODE IN ALL STORM, SOIL, WASTE, AND DRAIN LINES. AT A MINIMUM, PROVIDE CLEAN OUTS IN THE BASE OF EACH STORM AND SANITARY RISER. PRIOR TO INSTALLATION, COORDINATE CLEAN OUT LOCATIONS WITH OWNER'S REPRESENTATIVE. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE BUT NOT LARGER THAN 4". WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.
   H. INDIRECT WASTE: FOR APPLIANCES/EQUIPMENT WITH INDIRECT WASTE, TERMINATE DRAIN IN STRICT ACCORDANCE WITH LOCAL AHJ REQUIREMENTS - INCLUDING TERMINATION TO AN APPROVED RECEPTOR AND REQUIRED AIR GAP.
   I. PAINT PIPE TO MATCH OWNER'S OR BUILDING STANDARD.
   J. ALL HOLES REQUIRED THROUGH EXISTING FLOORS, MASONRY WALLS, AND ROOFS SHALL BE CORE DRILLED.
   K. ALL PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND ROOFS SHALL BE FLASHED WATERPROOF. PROVIDE ALL FLASHING FOR PIPE AND VENTS PENETRATING BUILDING ENVELOPE. PROVIDE PIPE SLEEVES AT WALL PENETRATIONS. SEAL ANNULAR SPACE WEATHER TIGHT.
   L. PROVIDE PIPE PENETRATIONS OF WALLS, FLOORS, AND FINISHED CEILINGS WITH CHROME-PLATED ESCUTCHEONS. ESCUTCHEONS SHALL BE WIDE ENOUGH TO CLOSE ANNULAR SPACE BETWEEN PIPE OR PIPE COVERING, PIPE SLEEVE, AND SURROUNDING STRUCTURE. SECURE ESCUTCHEONS IN PLACE. SEAL WATERTIGHT AROUND PIPE IN UNFINISHED ROOMS.
   M. DOMESTIC WATER PIPE CLEANING: CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING PER THE AHJ AND/OR PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES. PROVIDE COPIES OF WATER-SAMPLE APPROVALS FROM AHJ TO ARCHITECT (ENGINEER).
   N. PROVIDE DIELECTRIC PIPE UNIONS AT CONNECTIONS OF DISSIMILAR PIPE METALS. PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN PIPE AND EQUIPMENT CONNECTIONS.
   O. PROVIDE THIN FILM PIPE MARKERS FOR ALL PIPING. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4" HIGH FOR PIPES OVER 3". MARKERS SHALL INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW. LABEL PIPE PER BUILDING STANDARD OR AS SCHEDULED. PLACE PIPE MARKERS AT EQUIPMENT CONNECTIONS, ACCESS DOORS, BRANCH MAINS, AND ON ALL ACCESSIBLE PIPE AT MAXIMUM OF 75' BETWEEN MARKERS.
   P. THIS CONTRACTOR SHALL LOCATE AND FURNISH ACCESS PANELS FOR INSTALLATION BY THE GC. FOR INSTALLED SYSTEMS AND EQUIPMENT, FURNISH ALL ACCESS PANELS REQUIRED FOR VALVE ACCESS AND FOR SERVICING EQUIPMENT AND PIPES. ACCESS PANELS SHALL BE BY MILCOR TYPE: "M" ARCHITECTURAL GRADE FLUSH MOUNT; "DW" DRYWALL FLUSH MOUNT; "CT" ALUMINUM FOR SUSPENDED CEILINGS; "K" PLASTER FLUSH MOUNT; "UFR" FIRE-RATED PANELS UL 1-1/2 HOUR AND "CLASS B" LABEL ACCESS PANELS IN FIRE-RATED WALLS AND CEILINGS, AS INDICATED ON THE DRAWINGS. ACCESS DOORS SHALL BE MINIMUM 12"x12" FOR VALVES.

16. EQUIPMENT
   A. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION AND OPERATIONS MANUAL AND IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
   B. U.N.O. PROVIDE ALL MOTORIZED EQUIPMENT WITH VIBRATION ISOLATION MOUNTING AND FLEXIBLE PIPE CONNECTIONS.
   C. FOR ALL ELECTRICALLY POWERED EQUIPMENT FURNISHED BY THIS CONTRACTOR, PROVIDE MOTOR STARTER(S) AND ELECTRICAL DISCONNECTS.
   D. LABEL EQUIPMENT WITH ENGRAVED PHENOLIC RESIN NAMEPLATES ADHERED TO EQUIPMENT WITH RTV SILICONE. LETTERING SHALL BE 1" HIGH BLACK ON WHITE BACKGROUND.
   E. ALL EQUIPMENT, PIPE, ETC. MOUNTED FROM BOLTED CONNECTIONS SHALL HAVE DOUBLE NUTS AT ATTACHMENT TO STRUCTURE AND HANGER, NO EXCEPTIONS.

17. FIXTURES
   A. UNLESS NOTED OTHERWISE, ALL PLUMBING FIXTURES FOR THIS PROJECT SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. PROVIDE ALL NECESSARY CARRIERS, MOUNTING AND INSTALLATION HARDWARE, HANGERS, ANCHORS, AND BRACKETS. ALL FIXTURES SHALL BE PROPERLY CONNECTED TO WATER AND DWV LINES. PRIOR TO INSTALLATION, WHERE FIXTURES WILL BE INSTALLED EXAMINE WALLS AND FLOORS TO ENSURE SUITABLE CONDITIONS. PROCEED WITH INSTALLATION ONLY AFTER UNSUITABLE CONDITIONS HAVE BEEN CORRECTED. INSTALL FIXTURES DEAD LEVEL AND PLUMB WITH FIXTURE, FIXTURE CARRIER, AND/OR FIXTURE HANGER PROPERLY ANCHORED TO BUILDING STRUCTURE. DO NOT DAMAGE ANY ADJOINING WORK OR FINISH. PROVIDE RTV SILICONE SEALANT AT ALL WALL AND FLOOR FINISHES COMPATIBLE WITH COLOR OF FIXTURE AND FINISH. SEALANT SUBJECT TO ARCHITECT'S APPROVAL.
   B. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES FOR ALL FIXTURES AND EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING FIXTURES.
   C. PLUMBING CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING "ADA" WATER CLOSETS ARE PROPERLY ORDERED WITH CORRECT FLUSH HANDLE ORIENTATION. THIS CONTRACTOR'S SHOP DRAWING PROCESSING IS ACKNOWLEDGMENT THE P.C. HAS COORDINATED AND CORRECTLY ORDERED THE REQUIRED FLUSH HANDLE ORIENTATION, NO EXCEPTIONS OR EXCLUSIONS.
   D. ANCHOR ALL WALL-HUNG PLUMBING FIXTURE CARRIERS TO FLOOR SLAB. PROVIDE WALL HUNG WATER CLOSET CARRIERS WITH REAR FOOT ANCHORED TO FLOOR. WALL HUNG FIXTURES (SINKS, LAVATORIES, URINALS, OR WATER CLOSETS) INSTALLED ON MASONRY WALLS WITHOUT SPACE FOR CARRIERS SHALL BE MOUNTED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ON FACTORY HANGERS ANCHORED TO WALL WITH HILTI "HY-150" ADHESIVE ANCHOR SYSTEM AND BOLTS. ANCHORING SYSTEM SHALL BE PART OF THE PLUMBING FIXTURE SUBMITTALS.
   E. PROVIDE ALL FAUCETS WITH UNION TAILPIECES FOR CONNECTION TO SUPPLIES. SLIP JOINTS OR GASKETED JOINTS ARE NOT ACCEPTABLE.
   F. PROVIDE ALL FIXTURES WITH INDEPENDENT VALVES WITH INTEGRAL STOPS, CONCEALED STOPS, OR STOPS BELOW THE FIXTURES. ALL FIXTURES SHALL HAVE CHROME PLATED BRASS TRIMMINGS.
   G. PROVIDE FIXTURES AS SCHEDULED ON THE DRAWINGS. THE FOLLOWING SIMILAR AND EQUAL FIXTURES WILL BE ACCEPTABLE FOR SUBMITTAL REVIEW: CHINA FIXTURES BY CRANE, ELJER, KOHLER, AND TOTO; STAINLESS STEEL FIXTURES BY JUST; TERRAZZO OR MOLDED STONE PRODUCTS BY STERN WILLIAMS AND SWAN. FAUCETS OF SIMILAR DESIGN AND EQUAL QUALITY TO THOSE SCHEDULED BY CHICAGO FAUCET, DELTA, MOEN, T&S BRASS, AND SYMMONS WILL BE ACCEPTABLE FOR REVIEW.

18. EXCAVATION AND BACKFILL
   A. PROVIDE ALL EXCAVATION AND BACKFILL REQUIRED FOR PIPE AND EQUIPMENT INSTALLATION SHOWN ON THE PLANS AND/OR AS REQUIRED. EXCESS EXCAVATION BELOW THE REQUIRED ELEVATION SHALL BE BACKFILLED WITH THOROUGHLY TAMPED SOIL. PRIOR TO BACKFILLING, UTILITY LINES SHALL BE INSPECTED AND APPROVED BY THE AHJ.
   B. EXCAVATED TRENCH BOTTOMS SHALL BE TAMPED THOROUGHLY AND GRADED TO THE REQUIRED SLOPE. WHERE ROCK IS ENCOUNTERED, EXCAVATE TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE. BEFORE THE PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE FILLED WITH GRAVEL AND TAMPED. TRENCHES DEEPER THAN THE BOTTOM OF FLOORING OR WITHIN THREE FEET (3'-0") OF FOOTING SHALL BE FILLED WITH COHESIVE SOIL AND COMPACTED TO 95% OF MAXIMUM DENSITY, STANDARD PROCTOR, ASTM D- 698. COMPACT ALL OTHER EXCAVATIONS UNDER FLOOR SLABS TO 95% STANDARD PROCTOR.
   C. WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO THE REQUIRED LEVEL WITH SAND AND GRAVEL AND TAMPED THOROUGHLY.
   D. TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF CLEAN SOIL (FREE OF CLODS AND STONES) AND THOROUGHLY TAMPED TO A DEPTH OF 12" ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL BE DONE IN 12" LAYERS AND THOROUGHLY TAMPED.

19. SHOP DRAWINGS
   A. SUBMIT SHOP DRAWINGS ON SCHEDULED AND NOTED EQUIPMENT AND MATERIALS. PROVIDE ADEQUATE TIME FOR REVIEW AND CORRECTIONS, IF ANY, TO PREVENT CONSTRUCTION DELAY.
   B. SUBMIT: MANUFACTURERS CUTS, INSTALLATION MANUALS AND PRODUCT SPECIFICATIONS; CLEARLY INDICATED OPTIONS AND ACCESSORIES; COMPLIANCE WITH REFERENCED STANDARDS AND LISTINGS; NOTATION FOR COORDINATION REQUIREMENTS; AVAILABILITY AND DELIVERY TIME INFORMATION; WIRING DIAGRAMS, PERFORMANCE CURVES AND DETAILED DESCRIPTION OF EQUIPMENT ANCHORAGE.

20. OUTDOOR AIR INTAKES
   A. PROVIDE A MINIMUM (10'-0") HORIZONTAL CLEARANCE BETWEEN PLUMBING VENTS AND/OR COMBUSTION EXHAUST AND MECHANICAL EQUIPMENT OUTDOOR AIR INTAKES.

21. TESTING AND BALANCING
   A. PROVIDE REQUIRED LEAK TESTING OF WATER, DWV, AND GAS PIPING.
   B. PROVIDE DISINFECTION TEST REPORT OF DOMESTIC WATER PIPING.
   C. PROVIDE BALANCE REPORT OF HOT WATER RETURN PIPING.

22. COMPLETION OF WORK
   A. UPON COMPLETION OF WORK, INSPECT INSTALLATION OF ALL EQUIPMENT AND SYSTEMS. OPEN ALL ACCESS COVERS ON EQUIPMENT. REMOVE ALL SURPLUS MATERIALS AND DEBRIS AND PROPERLY DISPOSE OF SAME.

25. CLOSEOUT - AT CONSTRUCTION COMPLETION AND PRIOR TO TURNOVER TO OWNER (TENANT):
   A. PROVIDE FINAL MARK-UPS IN PDF (DWG) FORMAT TO ARCHITECT AND ENGINEER.
   B. PRO

PLUMBING PIPE & PIPE INSULATION SCHEDULE

PIPE MATERIAL	SANITARY DWV (SAN. V) ABOVE GROUND, PLENUM SPACES	SANITARY DWV (SAN. V) ABOVE GROUND, NON-PLENUM SPACES	SANITARY DWV (SAN. V) BELOW GROUND	DOMESTIC HOT WATER (HW) ABOVE GROUND	DOMESTIC HOT WATER RECIRCULATING (HWR) BELOW GROUND	DOMESTIC WATER (CW, HW) ABOVE GROUND IN EXTR. WALL	DOMESTIC COLD WATER (CW) ABOVE GROUND	DOMESTIC WATER (CW, HW) BELOW GROUND
HARD COPPER WATER TUBE, DRAWN TEMPER: ASTM B 88, TYPE L. SOLDER-JOINT FITTINGS: CAST-COPPER:ASME B16.18 OR WROUGHT COPPER:ASME B16.22. SOLDER: ASTM B 32, LEAD-FREE ALLOYS AND ASTM B 813 FLUX. PRESSED MECHANICAL FITTINGS:WROUGHT COPPER, CAST COPPER, AND BRONZE VIEGA PROPRESS AND PROPESS XL-C, APPOVALS & CERTIFICATES: NSF, IAPMO, UL, CAS, FM. COMPLIANT WITH: ICC, UPC, PHCC, NFPA 13, 13D, & 13R.	◆	◆	◆					
SOFT COPPER TUBE, ANNEALED TEMPER: ASTM B 88, TYPE K. FITTINGS ABOVE GRADE: WROUGHT COPPER-ASME B16.22; SOLDER-ASTM B 32, USE 95-5 TIN ANTIMONY OR ALLOY HB SOLDER TO JOIN COPPER SOCKET FITTINGS ON COPPER PIPE. FITTINGS BELOW GRADE: WROUGHT COPPER FLARE, STREAMLINED PATTERN-ASME B16.26 AND SAE J513. COPPER FITTINGS WITH LONG NUTS. METAL-TO-METAL GASKETLESS COMPRESSION SEAL. DRYSEAL THREADS COMPLYING WITH ASME B1.20.3.				◆	◆			
DRAWN-TEMPER COPPER TUBE: ASTM B 88, TYPE L. FITTINGS: WROUGHT-COPPER ASME B16.22. [COPPER OR BRONZE PRESSURE-SEAL FITTINGS WITH COPPER HOUSING, EPDM O-RINGS AND PIPE STOPS. TOOLS: MANUFACTURER'S SPECIAL TOOLS. MINIMUM 200-PSIG WORKING-PRESSURE RATING AT 250 DEG F.] SOLDER: ASTM B 32, LEAD-FREE ALLOYS WITH ASTM B 813 WATER-FLUSHABLE FLUX. BRAZING METALS: AWS A5.8, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS FOR JOINING COPPER WITH COPPER; OR BAG-1, SILVER ALLOY FOR JOINING COPPER WITH BRONZE OR STEEL.	◆	◆						
CAST IRON PIPE AND FITTINGS: ASTM A 888 OR CISPI 301. STANDARDS: ASTM C 1277 AND CISPI 310. HEAVY-DUTY, HUBLESS-PIPING COUPLING STANDARDS: AS ASTM C 1277 AND ASTM C 1540, STAINLESS-STEEL SHIELD, BANDS, AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP. PIPE AND FITTINGS SHALL BE MARKED WITH A COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE.							◆	◆	◆
PIPE INSULATION (2017 DISTRICT OF COLUMBIA ENERGY CONSERVATION CODE)								
PIPE DIAMETER: ALL; 1/2" THICK INSULATION								
PIPE DIAMETER: ALL; 1" THICK INSULATION	A	A						
PIPE DIAMETER: ≤ 1.5"; 1-1/2" THICK INSULATION			B		B			
PIPE DIAMETER: ≥ 1.5"; 2" THICK INSULATION			B		B			
INSULATION TYPE								

(A) FLEXIBLE CLOSED-CELL ELASTOMERIC: ASTM C 534, TYPE I. NFPA 90A, 90B. EXTERIOR EXPOSURES:PROVIDE CONTINUOUS 30 MIL PVC JACKET (UV, OZONE, MOISTURE RESISTANT). ON WATER PIPE SUBJECT TO FREEZING COORDINATE INSULATION WITH ELECTRICAL CONTRACTOR'S INSTALLATION HEAT TRACE. INSTALL PIPE INSULATION OVER HEAT TRACE.

(B) MINERAL-FIBER, PREFORMED PIPE INSULATION: ASTM C 547, TYPE I, GRADE A, MINERAL OR GLASS FIBERS BONDED WITH THERMOSETTING RESIN, WITH FACTORY-APPLIED ASJ-SSL. NFPA 90A, 90B.

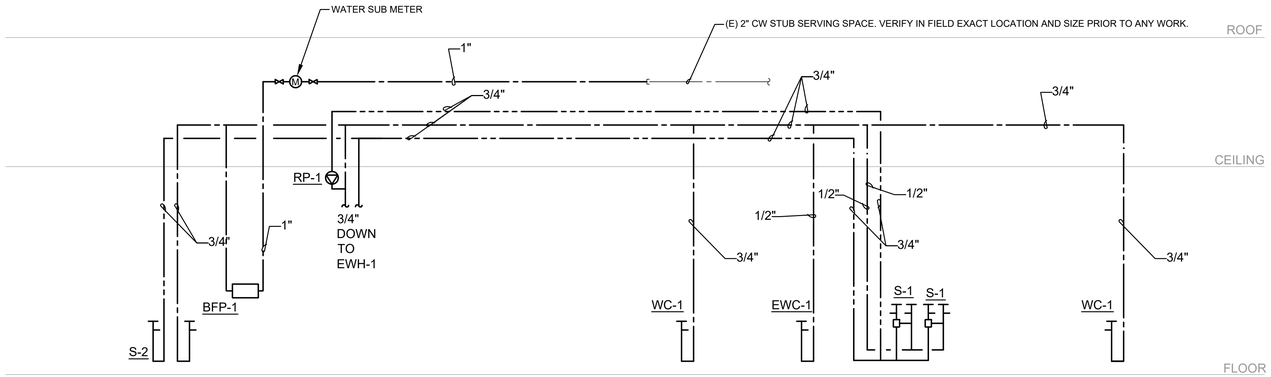
NOTE:
1. INSTALL ALL PIPING, PIPE INSULATION, AND JACKETING IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND PER APPLICABLE CODE AND AHJ'S REQUIREMENTS.
2. ALL MATERIALS INSTALLED IN PLENUM SPACES SHALL CONFORM WITH NFPA 90A AND NFPA 90B AND BE LABELED ACCORDINGLY.
3. DO NOT INSTALL ANY PIPING ABOVE ELECTRICAL PANELS AND/OR TRANSFORMERS.
4. LABEL PIPE PER BUILDING STANDARD OR AS SCHEDULED.
5. PAINT PIPE TO MATCH OWNER'S OR BUILDING STANDARD.

PLUMBING PIPE VALVE SCHEDULE

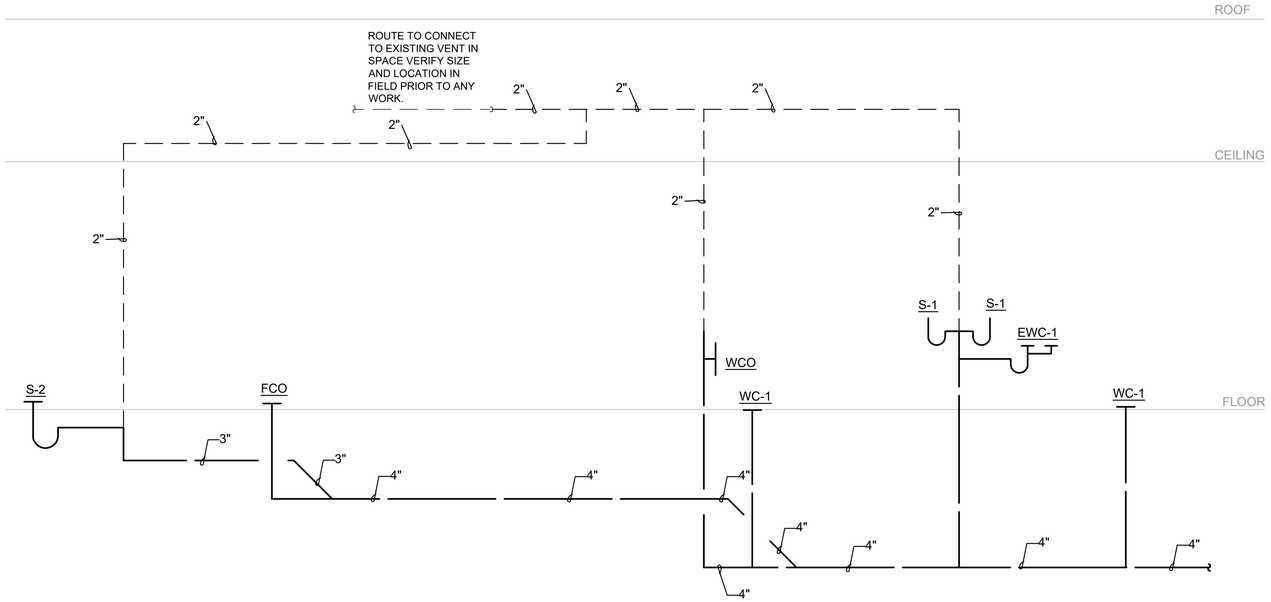
VALVE TYPE	MANUFACTURER	MODEL NO.
CHECK VALVE (UP TO 2")	NIBCO	S-22
FULL PORT BALL VALVE (UP TO 3")	NIBCO	S-FP-600
GATE VALVE (UP TO 3")	NIBCO	S-113
TEMP. AND PRESSURE RELIEF VALVE	WILKINS	TP1100A
WATER HAMMER ARRESTOR	J.R. SMITH	SEE SCHEDULE
BACKFLOW PREVENTER (WHOLE-HOUSE)	WILKINS	950XLU
BACKFLOW PREVENTER (SINGLE DEVICE)*	WILKINS	700
VACUUM RELIEF VALVE	WILKINS	35VCH
PRESSURE REDUCING VALVE	WILKINS	500YSBR
TRAP SEAL PRIMER	JAY R. SMITH	2699-1

NOTES:
1. PROVIDE VALVES WHERE INDICATED ON PLANS AND, AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. AT A MINIMUM, PROVIDE VALVES AT EACH CW AND HW BRANCH, FOR EACH FIXTURE, AND EACH PIECE OF EQUIPMENT. UNLESS NOTED OTHERWISE, PROVIDE BRAIDED STAINLESS STEEL HOSE BETWEEN VALVE AND FIXTURE AND CONNECTED EQUIPMENT. CONNECTIONS SHALL BE IN STRICT ACCORDANCE WITH FIXTURE OR EQUIPMENT MANUFACTURER'S IOM. PROVIDE SHUT-OFF VALVES ADJACENT TO EQUIPMENT IN ACCESSIBLE LOCATION.
2. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:
3. IF SUPPLY PRESSURE EXCEEDS 65 PSI, PROVIDE A PRESSURE REGULATOR AT ENTRY. SET DELIVERY PRESSURE TO 65 PSI. IF REQUIRED BY LOCAL AHJ, PROVIDE BACKFLOW PREVENTER ON WATER SERVICE.

* FOR EACH APPLIANCE AND PIECE OF EQUIPMENT DIRECTLY CONNECTED TO DOMESTIC WATER, PROVIDE APPROVED BFP IN STRICT ACCORDANCE WITH ALL AHJ.



1 SUPPLY RISER
SCALE: NONE



2 WASTE RISER
SCALE: NONE

MUNICIPAL APPROVAL STAMP

PROJECT TEAM

DXU ARCHITECTS

CASE Engineering Inc.
796 Metro Court, St. Louis, MO 63026
T 636.349.1600
F 636.349.1730

CLIENT

[solidcore]

PROJECT

[solidcore]
UNION MARKET

1326 5TH STREET NORTHEAST
WASHINGTON, DC
20002

NO.	DATE	ISSUE
	03-09-2026	ISSUED FOR PERMIT
	03-09-2026	LL REVIEW SET
1	05-12-2026	PERMIT COMMENTS

PROJECT NUMBER: 25-377

DRAWN BY: APPROVED BY:

SEAL

DISTRICT OF COLUMBIA
MATTHEW RICHARD CASE
PE922460
MECHANICAL
PROFESSIONAL ENGINEER

5/12/26

PERMIT COMMENTS

SHEET TITLE & NUMBER

PLUMBING RISERS

P3-01

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