CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

PROJECT NO. PRJ000889

HARFORD SENIOR CENTER RENOVATIONS

4920 Harford Road
BALTIMORE, MD 21214

FOR

THE MAYOR AND CITY COUNCIL
BRANDON SCOTT, MAYOR

HARFORD SENIOR CENTER PROJECT NO. PRJ000889
RENOVATIONS

NO	DATE	DESCRIPTION

RRMM®
ARCHITECTS, PC
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227
(410) 234-8444

PROFESSIONAL CERTIFICATION

USER AGENCY

DEPARTMENT OF GENERAL SERVICES

PROJECT MANAGER DESIGN SECTION	CONSTRUCTION MANAGER CONSTRUCTION SECTION	SECTION CHIEF, DESIGN SECTION	DIVISION CHIEF, DESIGN & CONSTRUCTION DIVISION	DIRECTOR, DEPARTMENT OF GENERAL SERVICES

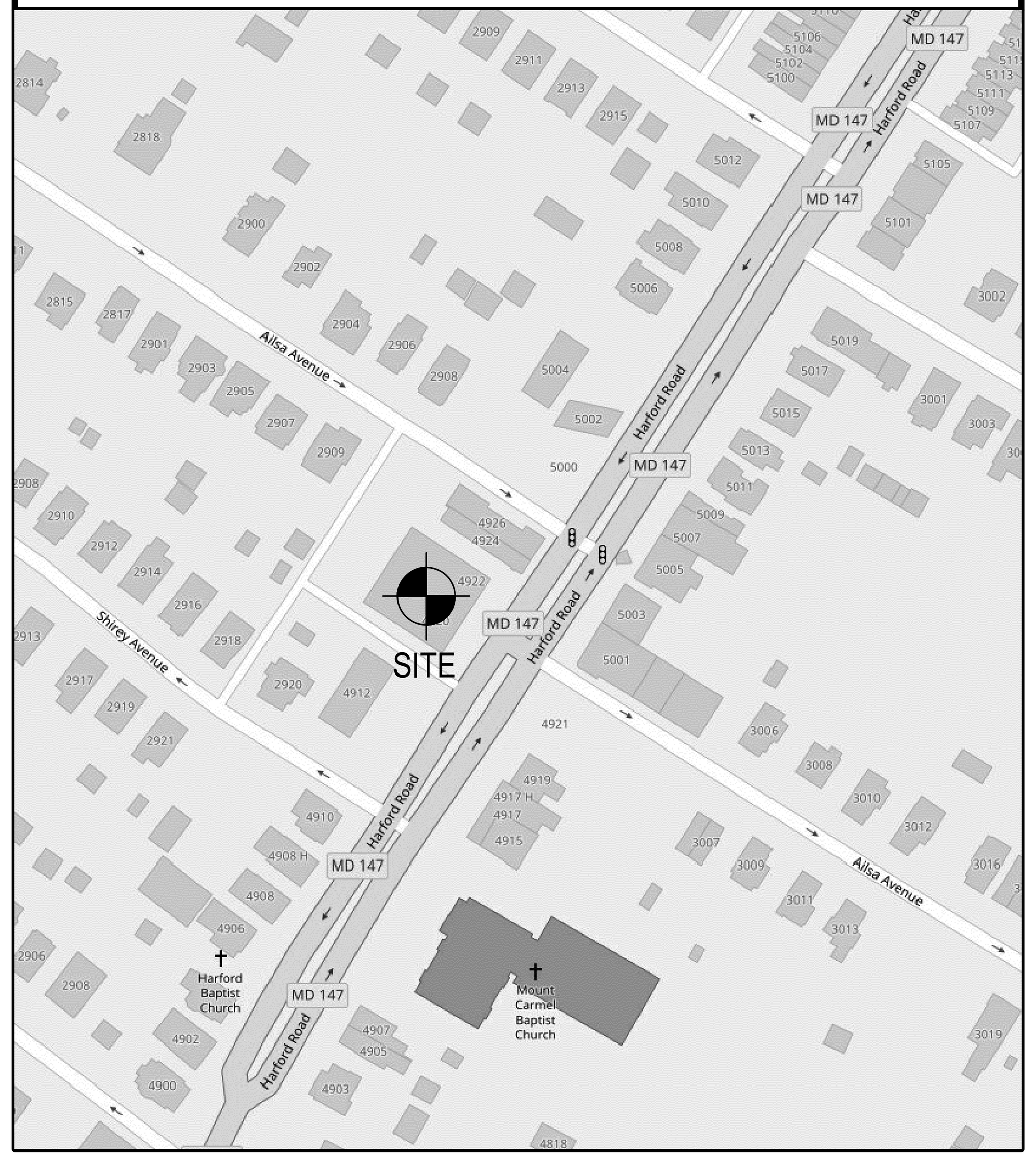
MARCH 12, 2026

SHEET
A100

SHEET 1 OF 51

LIST OF DRAWINGS

VICINITY MAP



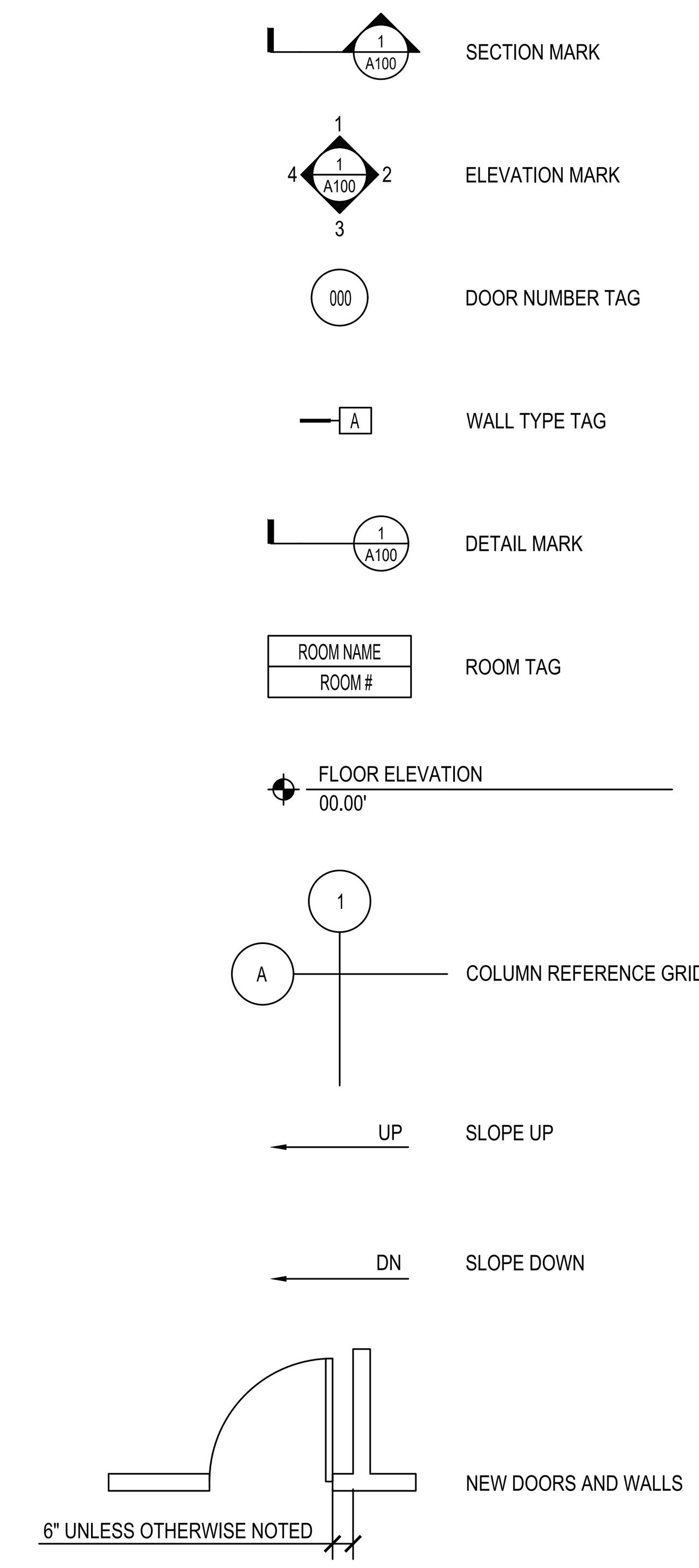
GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. RESOLVE ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL RE-USE EXISTING WALL, FLOOR, CEILING AND ROOF OPENINGS AND PENETRATIONS TO THE GREATEST EXTENT POSSIBLE FOR THE ROUTING OF NEW WORK.
3. CONTRACTOR SHALL PATCH ALL EXISTING ABANDONED PENETRATIONS TO MATCH ADJACENT CONSTRUCTION AND MAINTAIN THERMAL, ACOUSTICAL, AND VISUAL PERFORMANCE.
4. CONTRACTOR SHALL PROVIDE OPENINGS IN FLOORS, WALLS, CEILING AND ROOF TO PROVIDE FOR THE ROUTING OF ALL NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, SIZE AND CONSTRUCTION OF ALL PENETRATIONS.
5. WALLS NOT INDICATED WITH A WALL CONSTRUCTION SCHEDULE SYMBOL SHALL BE CONSTRUCTED THE SAME AS THE ADJACENT WALL.
6. THE CONTRACTOR SHALL NOT RELY ON MEASUREMENTS SCALED FROM THESE DRAWINGS.
7. DIMENSIONS SHOWN ARE TO THE FACE OF FINISH SURFACE UNLESS OTHERWISE NOTED.
8. ALL GLAZING SHALL BE IN ACCORDANCE WITH CONSUMER PRODUCT SAFETY COMMISSION 16 CFR PART 1201 (1977) SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS.
9. FIRE RATED WALLS SHALL EXTEND TIGHT TO THE UNDERSIDE OF THE DECK ABOVE. SEAL ALL GAPS.
10. THE CONTRACTOR SHALL SEAL THE ANNULAR SPACE AT ALL PENETRATIONS THROUGH HORIZONTAL AND CEILING/ROOF NON-FIRE RATED ASSEMBLIES WITH A NON-COMBUSTABLE APPROVED MATERIAL.
11. PENETRATIONS THROUGH ANY FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UL-DESIGN DESIGNATION AND THE ANNULAR SPACE AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL TESTED AND LABELED BY UL.
12. ALL CONSTRUCTION OF FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY DESIGN AS DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL PROVIDE MATERIALS & CONSTRUCTION STRICTLY IN ACCORDANCE WITH THE UL DESIGN DESIGNATIONS.
13. PLUMBING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH BALTIMORE CITY PLUMBING CODE AND SUBJECT TO FIELD INSPECTION BY THE AGENCIES HAVING JURISDICTION.
14. ELECTRICAL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS AND REVISIONS OF THE NATIONAL ELECTRICAL CODE.
15. MECHANICAL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE THE LATEST ADOPTED EDITION OF INTERNATIONAL MECHANICAL CODE.
16. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES (5) FIVE DAYS PRIOR TO THE START OF WORK ON-SITE:
    MISS UTILITIES
    BALTIMORE CITY PERMIT OFFICE
17. CONTRACTOR SHALL PROPERLY PREPARE ALL SURFACES INDICATED TO BE PAINTED, INCLUDING, BUT NOT LIMITED TO CLEANING AND SANDING BEFORE PRIMING AND BETWEEN COATS.
18. UNLESS OTHERWISE NOTED WALL FINISHES SHALL BE APPLIED FROM FINISHED FLOOR TO FINISHED CEILING.
19. INTERIOR FINISHES FOR WALLS AND CEILINGS SHALL MEET:
    - A FLAME SPREAD RATE OF 75 OR LESS
    - ASTM E84 AND IBC 2021 TABLE 803.13
    - ALL FLOOR FINISHES SHALL MEET DOC FF-1 AND NFPA
    - CLASS B REQUIREMENTS AND SECTION 804 OF IBC
20. UNLESS OTHERWISE INDICATED, TRANSITION OF FINISHES SHALL OCCUR UNDER DOOR BETWEEN ROOMS.
21. SURFACES NOT INDICATED WITH A FINISH SHALL RECEIVE THE SAME FINISH AS THE ADJACENT INDICATED SPACE.
22. COAT ALL EXPOSED SURFACES OF GYPSUM WALLBOARD, PLASTER, UNFINISHED WOOD AND UNFINISHED STEEL WITH PRIMER AND TWO COATS OF PAINT UNLESS OTHERWISE NOTED.
23. PROVIDE TRANSITION STRIPS WHERE TWO DIFFERENT FLOOR FINISHES MEET. (TYPICAL)
24. EXISTING FINISHES SCHEDULED TO REMAIN: PROTECT AND REPAIR AS NECESSARY
25. EXISTING FLOORS SCHEDULED FOR NEW FINISHES: PATCH ALL HOLES FLUSH. FLASH PATCH DEPRESSIONS AND UNEVEN SURFACES FLUSH WITH ADJACENT AREA.
26. PROVIDE 2 LAYERS 5/8" FIRE CODE GYPSUM AROUND PENETRATIONS FOR FIRE EXTINGUISHER CABINETS IN RATED WALLS.
27. SEE PARTITION SCHEDULE FOR EXTENT OF SOUND ATTENUATION INSULATION, CAULK PERIMETER OF ALL SOUND RATED PARTITIONS.
28. EXTEND GYPSUM WALLBOARD FULL LENGTH AND HEIGHT OF WALL BEHIND CABINETS TYPICAL.
29. EXISTING WALLS SCHEDULED TO REMAIN: PATCH AS NECESSARY AND PREPARE FOR NEW FINISHES AFTER MECHANICAL, ELECTRICAL, AND STRUCTURAL WORK IS COMPLETE. REMOVE AND PATCH CRACKED OR LOOSE MATERIAL. FEATHER EDGE AT IN FILL OR ROUGH AREAS.
30. A CHAIN LINK CONSTRUCTION FENCE AROUND THE ENTIRE PROPERTY SHALL BE PROVIDED UNDER THE GENERAL CONSTRUCTION CONTRACT. THE FENCE SHALL BE REMOVED AT THE END OF THE CONSTRUCTION PHASE UNDER GENERAL CONSTRUCTION CONTRACT.
31. CAULK PERIMETER OF ALL FLOOR AND WALL MOUNTED PLUMBING FIXTURES AND COUNTER TOPS.
32. PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING BEHIND WALL MOUNTED HARDWARE, CABINETS, EQUIPMENT AND HANDRAILS, MINIMUM SIZE TO BE 2x6 LUMBER.
33. DO NOT CUT STUDS FOR HORIZONTAL PIPE RUNS. FEED PIPE FROM OVER HEAD BETWEEN STUDS.
34. COORDINATE WITH OWNER REGARDING INSTALLATION OF OWNER PROVIDED/CONTRACTOR INSTALLED EQUIPMENT INCLUDING WALL MOUNTED TELEVISIONS, BULLETIN BOARDS, AND KITCHEN APPLIANCES. CONTRACTOR TO INSTALL SOLID FIRE RETARDANT TREATED WOOD BLOCKING AS REQUIRED FOR SECURE INSTALLATION OF WALL MOUNTED EQUIPMENT AND DEVICES.
35. CONTRACTOR TO COORDINATE WITH OWNER'S SYTEM VENDOR FOR INSTALLATION OF LOW VOLTAGE SYSTEMS AND DEVICES.

ABBREVIATIONS

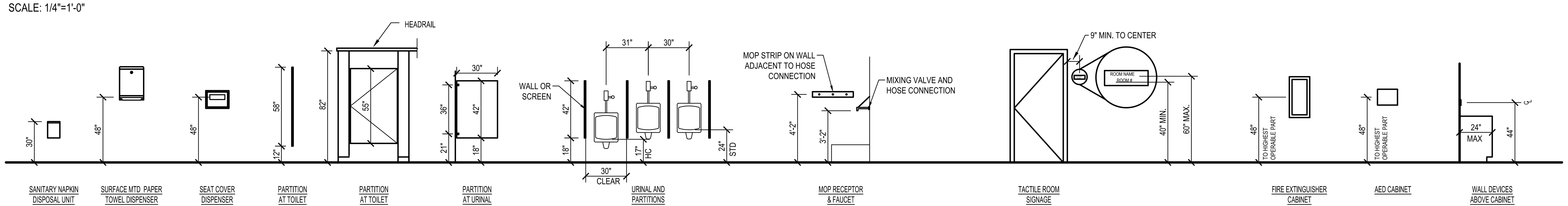
ACT ACOUSTICAL TILE
ADA AMERICANS WITH DISABILITIES ACT
AFF ABOVE FINISH FLOOR
ALI ACOUSTICAL LAY-IN PANEL
ALUM ALUMINUM
ANL ANODIZED ALUMINUM
BOC BOTTOM OF CURB
BTC BITUMINOUS CONCRETE
CRPT CARPET
CT CERAMIC TILE
CJ CONTROL JOINT
CL CLEAR
CLT CLOSET
CONC CONCRETE
CONT CONTINUOUS
CMU CONCRETE MASONRY UNIT
DB DIRECT BURIAL
DS DOWNSPOUT
EDB EDGEBAND
ELEV ELEVATION
EXIST EXISTING
FEC FIRE EXTINGUISHER CABINET
FBGL FIBERGLASS
GWB GYPSUM WALLBOARD
GB GRAB BAR
GA GAUGE
GALV GALVANIZED
HM HOLLOW METAL
INSUL INSULATION
INC INCLUDED
MFR MANUFACTURER
AED AUTOMATED EXTERNAL DEFIBRILLATOR
MH MANHOLE
MIN MINIMUM
MTD MOUNTED
MTL METAL
NIC NOT IN CONTRACT
OC ON CENTER
PCC PORTLAND CEMENT CONCRETE
PLM PLASTIC LAMINATE
PT PRESERVATIVE TREATED
PTD PAPER TOWEL DISPENSER
S SEWER
SS STAINLESS STEEL
SD SOAP DISPENSER
SIM SIMILAR
SND SANITARY NAPKIN DISPENSER
TOC TOP OF CURB
TOF TOP OF FOOTING
TPD TOILET PAPER DISPENSER
TS TRANSITION STRIP
TSCD TOILET SEAT COVER DISPENSER
TYP TYPICAL
UL UNDERWRITER'S LABORATORIES
U.O.N. UNLESS OTHERWISE NOTED
VCT VINYL COMPOSITION TILE
WLCVR WALL COVERING
W/ WITH
W WATER
WD WOOD
WR WATER RESISTANT
WDVN WOOD VENEER
WWF WELDED WIRE FABRIC

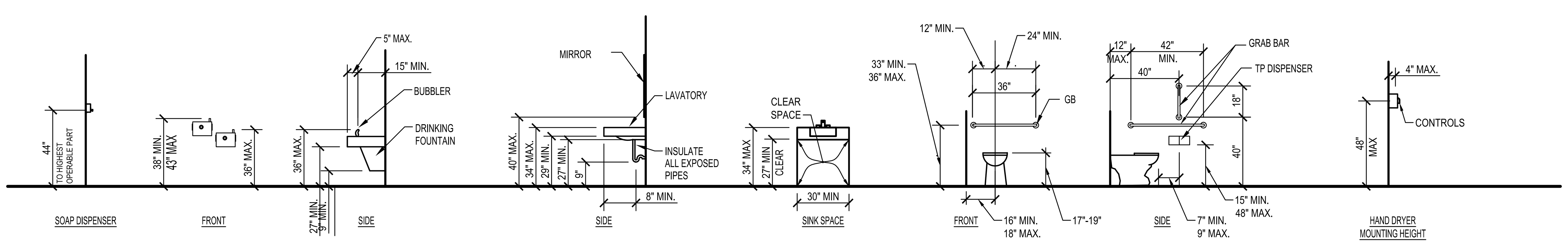
SYMBOL LEGEND



MOUNTING HEIGHTS

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





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STATE OF MARYLAND
JOSEPH A. ...
No. 21386
ARCHITECT

"PROFESSIONAL CERTIFICATION.
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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

GENERAL NOTES

3/12/26

SHEET
G101

BUILDING CODE DATA

PROPERTY ADDRESS:
4920 HARFORD RD
BALTIMORE, MD 21214

BUILDING KNOWN AS: HARFORD SENIOR CENTER

FIRE DISTRICT: BALTIMORE CITY

LAND ZONING DESIGNATION: C-2 (COMMUNITY COMMERCIAL)

GENERAL DESCRIPTIONS OF BUILDING USE: SENIOR CENTER

APPLICABLE BUILDING CODES

- MARYLAND BUILDING PERFORMANCE STANDARDS MAY 2023
- INTERNATIONAL BUILDING CODE 2021 (SECTIONS AS SPECIFICALLY REFERENCED IN THE IEBC 2021)
- INTERNATIONAL EXISTING BUILDING CODE 2021
- NATIONAL ELECTRIC CODE 2020
- INTERNATIONAL FUEL GAS CODE 2021
- INTERNATIONAL MECHANICAL CODE 2021
- INTERNATIONAL PLUMBING CODE 2021
- INTERNATIONAL PROPERTY MAINTENANCE CODE 2021
- INTERNATIONAL FIRE CODE 2021
- INTERNATIONAL ENERGY CONSERVATION CODE 2021
- INTERNATIONAL GREEN CONSTRUCTION CODE 2021
- NFPA 101 LIFE SAFETY CODE 2021
- NFPA 1 FIRE PROTECTION CODE 2021
- NFPA 72 FIRE ALARM CODE 2021
- INTERNATIONAL CODE COUNCIL ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- BALTIMORE CITY BUILDING, FIRE, AND RELATED CODES (BCBFRC 2024 EDITION)

CLASSIFICATION OF WORK

INTERNATIONAL EXISTING BUILDING CODE 2021 COMPLIANCE METHOD "WORK AREA COMPLIANCE"
1. WORK AREAS WITHIN THE EXISTING BUILDING: "ALTERATION LEVEL 3"

NFPA 101 LIFE SAFETY CODE; CHAPTER 43-EXISTING BUILDING CLASSIFICATION OF THE WORK:
1. WORK AREAS WITHIN THE EXISTING BUILDING: "RECONSTRUCTION"

USE GROUP: MIXED USE, NON-SEPARATED USES (A-3) ASSEMBLY AND (B) BUSINESS
CONSTRUCTION TYPE II-B PER IBC 2021, TYPE II-B PER NFPA 101-2021

FIRE PROTECTION

AUTOMATIC SPRINKLER SYSTEMS: NOT REQUIRED; NOT PROVIDED
FIRE ALARM: MANUAL FIRE ALARM PROVIDED

FIRE RESISTANCE RATING FOR BUILDING COMPONENTS:

PRIMARY STRUCTURAL FRAME	-0-
BEARING WALLS	
EXTERIOR	-0-
INTERIOR	-0-
NONBEARING WALLS	
EXTERIOR LESS THAN 10' SEPARATION	-0-
EXTERIOR GREATER THAN 10' SEPARATION	-0-
INTERIOR	-0-
FLOOR CONSTRUCTION	-0-
ROOF CONSTRUCTION	-0-

AREA LIMITATIONS

ALLOWABLE AREA PER FLOOR: 9,500 (1-STORY BUILDING WITHOUT SPRINKLER
PER TABLE 506.2 - IBC 2021 - A-3)
ACTUAL BUILDING AREA: 7,835 GSF

HEIGHT LIMITATIONS:
ALLOWABLE HEIGHT: 2 STORIES, 55 FEET ABOVE GRADE PLANE
(WITHOUT SPRINKLER PER TABLE 504.3 AND 504.4 - IBC 2021 - A-3)
ACTUAL BUILDING HEIGHT: 1 STORY, 16'-6"

OCCUPANT LOAD

(A-3) ASSEMBLY = 246
(B) BUSINESS = 26
TOTAL OCCUPANT LOAD = 272 OCCUPANTS

EXIT CAPACITY

DOOR CLEAR WIDTH REQUIRED: 272 OCCUPANTS X 0.2 = 54.4"
DOOR CLEAR WIDTH PROVIDED: 68"

NUMBER OF EXITS REQUIRED = 2
NUMBER OF EXITS PROVIDED = 2

PLUMBING FIXTURE COUNT REQUIRED

		MALE	FEMALE
A-3 CLASSIFICATION:	246 OCCUPANTS	123	123
	WATER CLOSETS	1	2
	LAVATORIES	1	1
BUSINESS CLASSIFICATION:	26 OCCUPANTS	13	13
	WATER CLOSETS	1	1
	LAVATORIES	1	1

BUILDING TOTAL	REQUIRED WATER CLOSETS =	5
	PROVIDED WATER CLOSETS =	5 + 2 URINALS
	REQUIRED LAVATORIES =	4
	PROVIDED LAVATORIES =	5

	USE GROUP	REQUIREMENTS	TOTAL
DRINKING FOUNTAIN:	A-3	1 PER 500 OCCUPANTS	1
	B	1 PER 100 OCCUPANTS	1

DRINKING FOUNTAINS REQUIRED = 1
DRINKING FOUNTAINS PROVIDED = 2

SERVICE SINK REQUIRED = 1
SERVICE SINK PROVIDED = 1

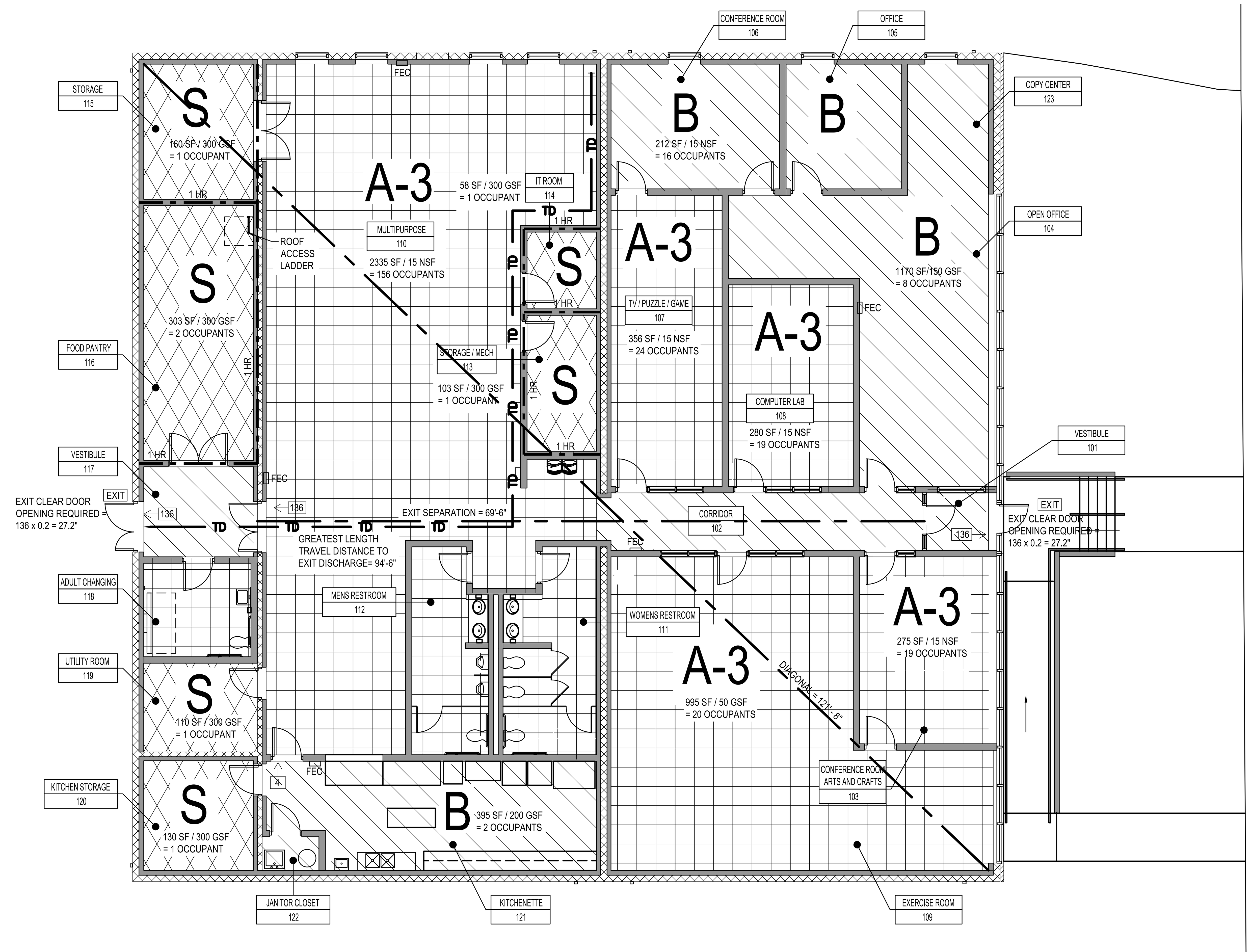
INTERIOR FINISHES

2021 IBC TABLE 803.13
GROUP: MIXED USE ASSEMBLY (A-3) AND BUSINESS (B)
AUTOMATIC SPRINKLER SYSTEMS: NOT REQUIRED; NOT PROVIDED

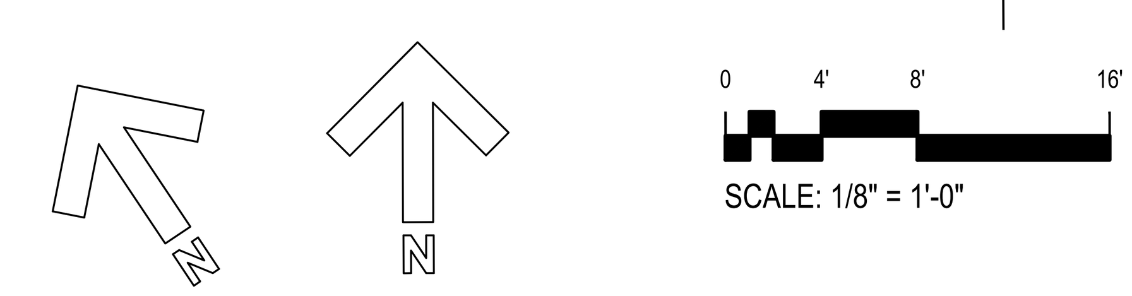
INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS: RATING (A)
CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: RATING: (A)
ROOMS AND ENCLOSED SPACES: RATING: (C)

LEGEND

60 →	EXIT AND OCCUPANT LOAD		ASSEMBLY A-3 OCCUPANCY
1 HR	1 HOUR FIRE SEPARATION		
CPT	COMMON PATH OF TRAVEL LENGTH		BUSINESS OCCCUPANCY
TD	TRAVEL DISTANCE TO NEAREST EXIT		
DE	DEAD END TRAVEL		
FEC	4A:80B:C EXTINGUISHER IN RECESSED CABINET		STORAGE INCIDENTAL TO A-3 OCCUPANCY
AED	AUTOMATED EXTERNAL DEFIBRILLATOR CABINET PROVIDED AND INSTALLED BY OWNER. CONTRACTOR TO COORDINATE LOCATION WITH OWNER AND PROVIDE NECESSARY BLOCKING		



BUILDING CODE ANALYSIS PLAN
SCALE: 1/8"=1'-0"



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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

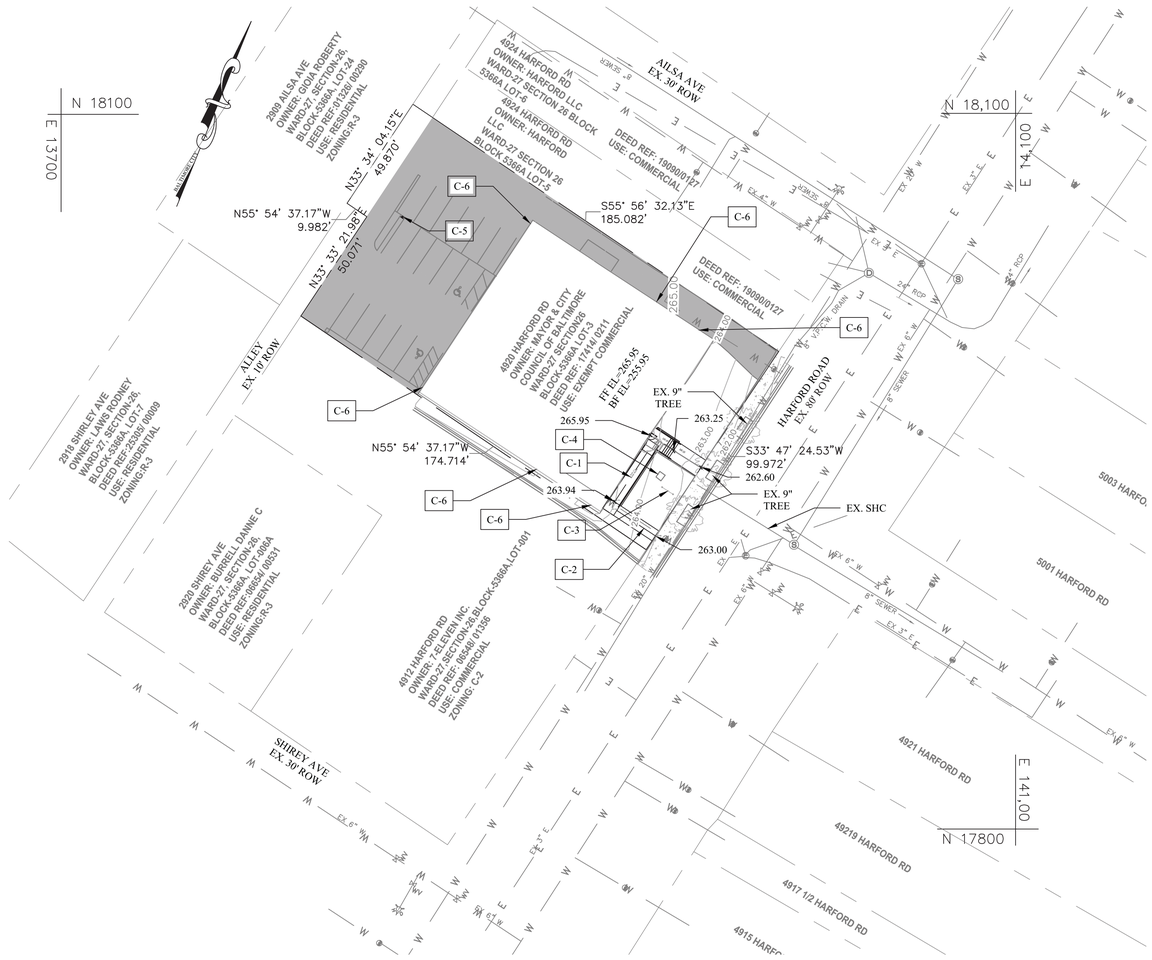
NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ008889

CODE ANALYSIS

3/12/26

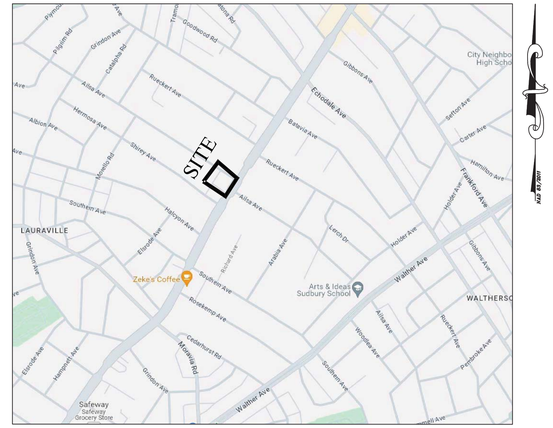
SHEET
CA101



SITE PLAN
SCALE: 1" = 30'

LEGEND

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING GAS VALVE
- EXISTING CLEAN OUT
- EXISTING SANITARY/SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING STORMDRAIN INLET
- EXISTING STREET LIGHT POLE
- EXISTING ELECTRIC HANDBOX
- EXISTING SIGNAL POLE
- EXISTING TREE
- EXISTING TREELINE
- EXISTING CONTOUR
- EXISTING SIGN
- METAL FENCE
- EXISTING BRICK FENCE
- EXISTING CROSSWALK OR SIDEWALK W/ BRICK INLAY
- EXISTING RIGHT OF WAY LINE
- PROPERTY LINE
- BORING
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING STORMDRAIN
- EXISTING WATER
- EXISTING UNDERGROUND TELEPHONE CABLE/WIRE
- EXISTING FIBER OPTICAL CABLE
- EXISTING UNDERGROUND ELECTRIC CABLE
- TRAVERSE POINT
- EX. PAVEMENT



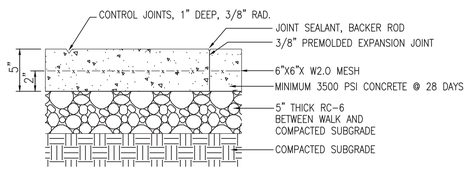
VICINITY MAP
SCALE: 1" = 500'

CONSTRUCTION NOTES

C-1: NEW ADA RAMP (MAX 12:1), SEE ARCHITECTURAL PLANS.
C-2: CONCRETE SIDEWALK (MAX 20:1), SEE DETAIL THIS SHEET.
C-3: EXISTING SIGN TO REMAIN.
C-4: EXISTING FLAGPOLE AND CONCRETE BASE TO BE REMOVED.
C-5: BICYCLE PARKING ONLY SIGN TO BE INSTALLED.
C-6: NEW DOWNSPOUTS WILL CONNECT TO EXISTING BELOW GRADE. CONTRACTOR TO FLUSH OUT EXISTING LINES AT THE TIME THE CONNECTION IS MADE.

GENERAL NOTES

1. SITE ADDRESS:
   4920 HARFORD ROAD
   BALTIMORE, MD 21214
2. OWNER:
   MAYOR & CITY COUNCIL OF BALTIMORE
   1001 E FAYETTE ST, BALTIMORE, MD, 21202
3. DEVELOPER:
   4920 HARFORD ROAD , INC.
4. PRESENT ZONING: C-2
5. NO PROPOSED ZONING CHANGE.
6. SITE AREA: 17993 SQFT OR 0.41 AC+/-
7. DEED REF: 17414/ 0211
8. USE: SENIOR CENTER
   EXISTING:EXEMPT COMMERCIAL
   PROPOSED:EXEMPT COMMERCIAL
9. PURPOSE OF PLAN: NEW ADA ENTRANCE TO BUILDING.
10. PROPOSED IMPERVIOUS AREA:
    WALKWAY: 480 SQFT
11. BUILDING LOT COVERAGE:
    EXISTING: 7923 SQFT
12. BUILDING FLOOR AREA: 7845 SQFT OR 0.18 AC
13. VEHICLE PARKING CALCULATIONS:
    REQUIRED: N/A
    PROVIDED: 16 SPACES INCLUDING 2 HANDICAP SPACE
14. BICYCLE PARKING CALCULATIONS:
    REQUIRED: 1 PER 10000 GFA (1 SPACE)
    PROVIDED: 1 SPACE
15. EXISTING PUBLIC UTILITIES FOR THE SITE ARE TO BE UTILIZED.
16. SITE DOES NOT LIE WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
17. NO FLOODPLAIN ON SITE.
18. CONTRACTOR TO FLUSH OUT THE EXISTING STORM DRAIN LINES.
19. CONTACT PERSON: MAYOR AND CITY COUNCIL OF BALTIMORE
    1001 E FAYETTE ST
    BALTIMORE MD 21202



1 CONCRETE WALKWAY
NOT TO SCALE

Signed by:

Signed by:
Richard Sobbott
32F87BFA96564EE...

BENCH MARKS

THE BEARINGS SHOWN ON THIS SURVEY ARE IN BALTIMORE CITY CO-ORDINATES SYSTEM

STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
DCI-101	18007.7818	13988.07	263.2200	IRON NAIL
DCI-102	18043.8292	13931.19	265.8500	IRON NAIL

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

CONSULTANTS:

DANIEL CONSULTANTS INC.
CONSULTING ENGINEERS AND PLANNERS
8950 ROUTE 108 E. , SUITE 229
COLUMBIA , MD 21043
TEL : 410-995-0090 FAX: 410-992-7038

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

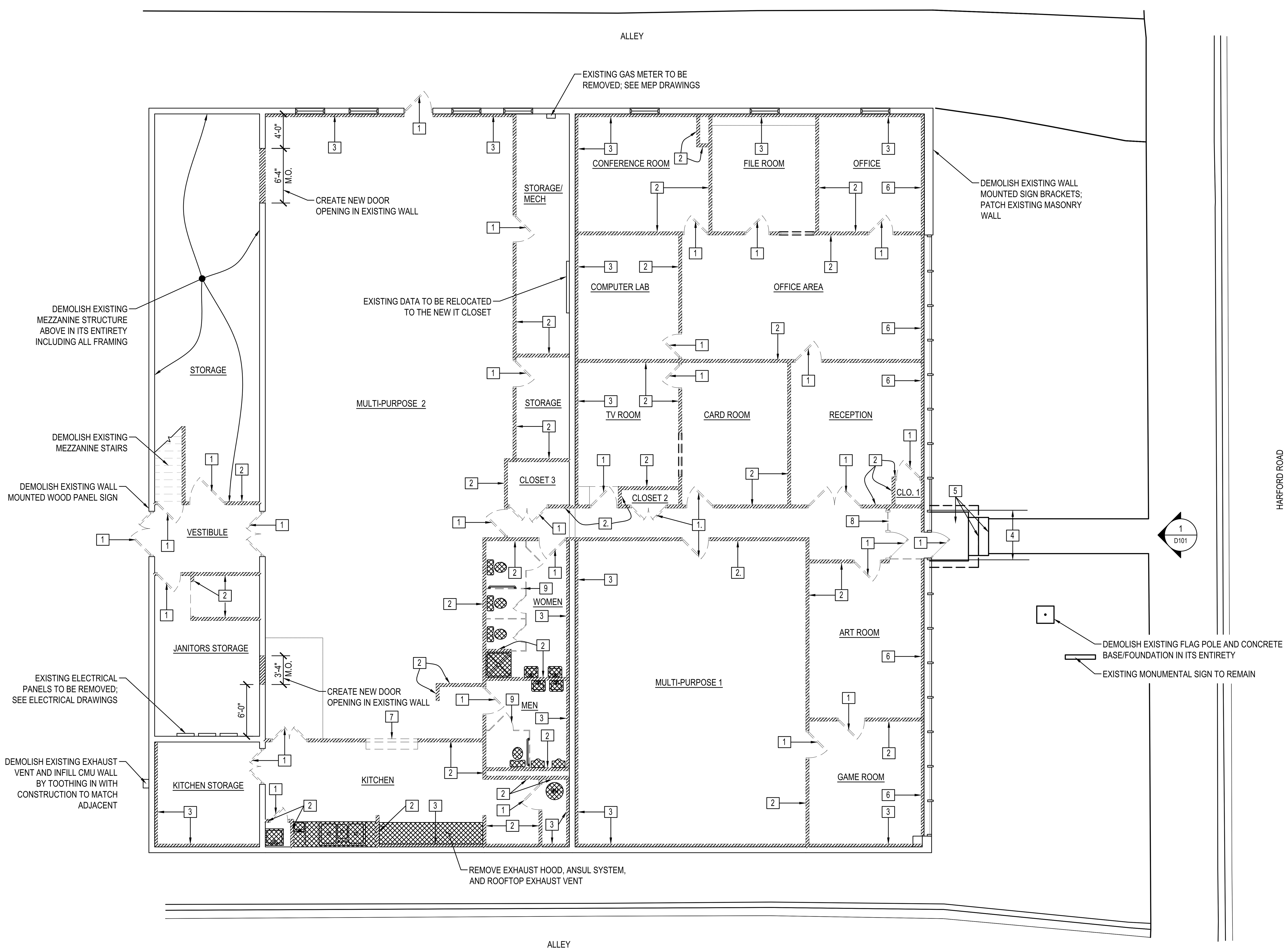
SITE PLAN

3/12/26

SHEET
C-01

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO DEMOLISH
- EXISTING EQUIPMENT TO DEMOLISH
- EXISTING DOOR TO DEMOLISH



DEMOLITION FLOOR PLAN

SCALE: 1/8"=1'-0"

TRUE NORTH

PLAN NORTH

0 4' 8' 16'

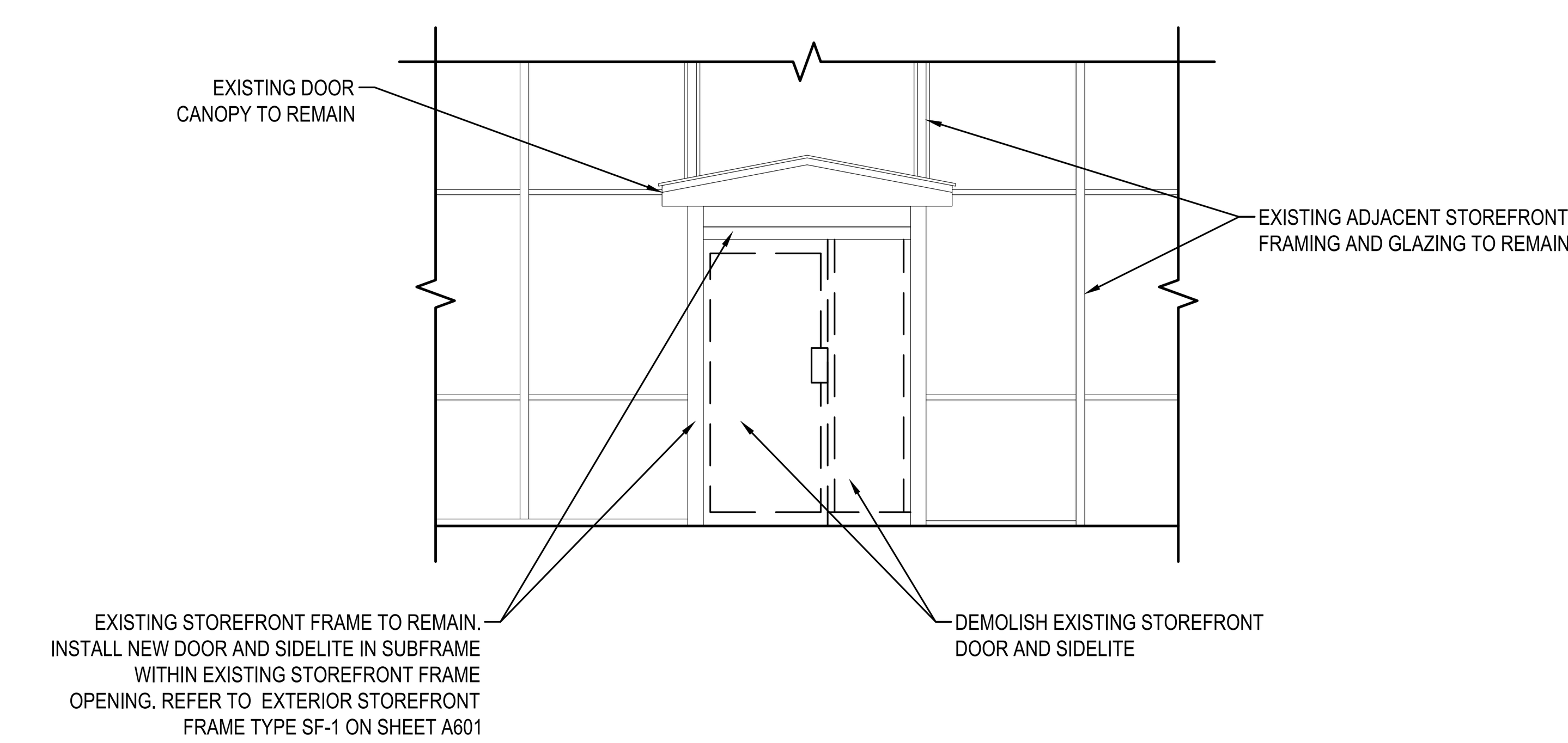
SCALE: 1/8" = 1'-0"

KEYED DEMOLITION NOTES

1. DEMOLISH EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE.
2. DEMOLISH EXISTING PARTITION TO THE EXTENTS SHOWN TO ACCOMMODATE NEW LAYOUT.
3. DEMOLISH EXISTING FURRED OUT PORTION OF WALLS, INCLUDING STUD FRAMING AND GWB. PROTECT EXISTING MASONRY WALL TO REMAIN.
4. DEMOLISH EXISTING STOREFRONT FRAMING SYSTEM TO THE EXTENTS SHOWN ON THE DEMOLITION PLANS AND ELEVATIONS. ADJACENT EXISTING STOREFRONT SYSTEM IS TO REMAIN; SEE DETAIL #1 ON THIS SHEET.
5. DEMOLISH EXISTING EXTERIOR STAIR STRUCTURE IN ITS ENTIRETY, INCLUDING ALL FOUNDATIONS AND RAILINGS.
6. REMOVE EXISTING WOOD BASE AND WOOD SILL. SALVAGE EXISTING FURRED OUT PORTION OF WALL AT BASE OF EXISTING STOREFRONT & PREPARE SURFACE TO RECEIVE NEW FINISH.
7. DEMOLISH EXISTING METAL COILING COUNTER DOOR, FRAME AND STAINLESS STEEL COUNTER.
8. DEMOLISH INTERIOR STOREFRONT PARTITION.
9. DEMOLISH EXISTING TOILET PARTITIONS.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL DEMOLISH ALL EXISTING FEATURES AS SCHEDULED BELOW, (UNLESS OTHERWISE NOTED)
   - ALL CEILING FINISHES AND SUSPENDED GRID SYSTEMS
   - ALL INTERIOR BASEBOARDS, TRIM, AND FLOOR FINISHES UNLESS OTHERWISE NOTED
   - ALL DOWNSPOUTS AND LEADER HEADS
   - ALL CABINETS AND CASEWORK
   - ALL DOORS AND HARDWARE
   - ALL LIGHTING FIXTURES AND WIRING
   - ALL PLUMBING FIXTURES AND PIPING
   - ALL MECHANICAL HEATING AND COOLING EQUIPMENT AND SYSTEMS
2. IT IS THE INTENT OF THIS CONTRACT THAT THE BUILDING BE SELECTIVELY DEMOLISHED AS OUTLINED ON THE DRAWINGS IN PREPARATION FOR NEW WORK.
3. TEMPORARILY ENCLOSE AREAS EXPOSED TO THE ELEMENTS TO ENSURE THE WATER TIGHTNESS OF THE BUILDING.
4. PROTECT BUILDING FROM DAMAGE WHILE REMOVING AND STORING ITEMS DESIGNATED TO BE SALVAGED.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE SCOPE AND LIMITS OF NEW WORK.
6. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING AND TEMPORARY SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES TO REMAIN.
7. CONTRACTOR SHALL REMOVE ALL EXTRANEOUS ANCHORS, FASTENERS, WALL HANGERS, PROTRUSIONS AND ACCESSORIES ON EXISTING WALL SURFACES TO REMAIN.
8. WHERE INDICATED TO "DEMOLISH" OR "REMOVE", CONTRACTOR SHALL COMPLETELY DEMOLISH THE EXISTING PHYSICAL FEATURE AND DISPOSE OF THE MATERIALS OFF-SITE IN A LEGAL MANNER. ON-SITE BURNING OF MATERIAL SHALL NOT BE ALLOWED.
9. REMOVE ALL TRASH AND DELETERIOUS MATERIALS FROM THE SITE.
10. SECURE OPENINGS AGAINST WEATHER DAMAGE AND UNAUTHORIZED ENTRY AT THE END OF EACH WORK DAY.
11. PROTECT ALL EXISTING STRUCTURE, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS INDICATED TO REMAIN.
12. PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN.
13. LEAVE DEMOLISHED AREAS READY TO RECEIVE NEW WORK. AFTER DEMOLITION IS COMPLETE, CONTRACTOR TO REPAIR ALL DAMAGE.
14. COMPLY WITH ALL LOCAL AND STATE CODES.
15. MAINTAIN TOTAL CONTROL OF DUST, AND BLOWING, AND DROPPING DEBRIS.
16. KEEP ALL SURROUNDING TRAFFICWAYS, BOTH PEDESTRIAN AND VEHICULAR, OPEN AND CLEAN AT ALL TIMES.
17. REMOVE EXISTING CONCRETE FLOOR SLAB ON GRADE AS NECESSARY TO INSTALL NEW UNDERSLAB UTILITIES. SAW CUT OPENING IN STRAIGHT LINES. BACKFILL UTILITY TRENCHES WITH GRAVEL AND MINIMUM 4" THICK CAST-IN-PLACE CONCRETE.
18. CUT NO NEW HOLES IN STRUCTURAL SLAB UNTIL LOCATED AND SUPPORT HAS BEEN VERIFIED.
19. CONTRACTOR TO FLUSH OUT EXISTING STORM WATER CONNECTIONS FROM TIE IN TO DISCHARGE. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS IN AN APPROVED MANNER.



STOREFRONT DEMOLITION ELEVATION 1

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

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STATE OF MARYLAND JOSEPH A. CRAIG No. 21386 ARCHITECT

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

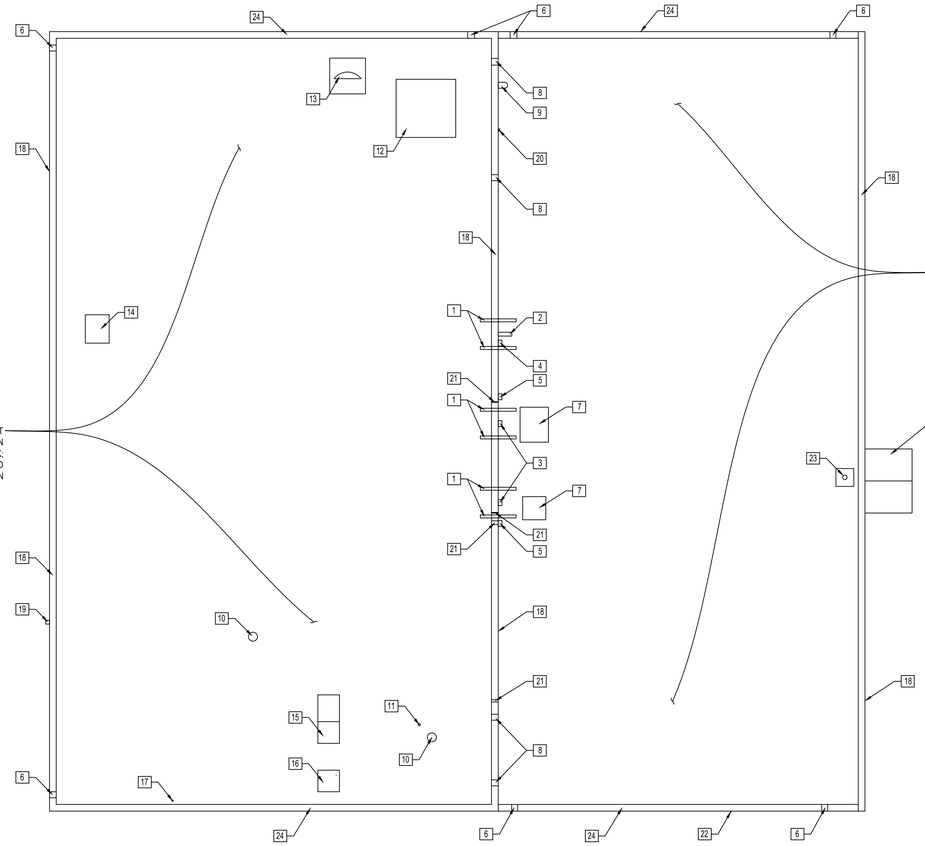
DEMOLITION FLOOR PLAN

3/12/26

SHEET
D101

KEYED ROOF DEMOLITION NOTES

1. DEMOLISH ABANDONED STEEL MOUNTING BRACKETS
2. DEMOLISH ABANDONED PITCH POCKET AND PATCH ROOF DECK; SEE STRUCTURAL DRAWINGS
3. ACTIVE DISCONNECT TO BE DEMOLISHED; SEE ELECTRICAL DRAWINGS
4. DEMOLISH ABANDONED DISCONNECT; SEE ELECTRICAL DRAWINGS
5. DEMOLISH THRU WALL PITCH POCKET BELOW REGLET FLASHING AND PATCH WALL WITH CONSTRUCTION TO MATCH ADJACENT
6. REMOVE EXISTING THRU WALL SCUPPER AND ALL ASSOCIATED CONDUCTOR HEADS AND DOWNSPOUTS
7. DEMOLISH EXISTING CONDENSER AND 4x4 TIMBER CURB
8. REMOVE EXISTING THRU WALL SCUPPER
9. DEMOLISH 8" THRU WALL GOOSE NECK AND PATCH WALL WITH CONSTRUCTION TO MATCH ADJACENT
10. DEMOLISH 12" HOT GAS VENT AND PATCH ROOF DECK; SEE STRUCTURAL DRAWINGS
11. DEMOLISH 3" Ø PLUMBING VENT AND PATCH ROOF DECK; SEE STRUCTURAL DRAWINGS
12. DEMOLISH LARGE ROOF TOP UNIT ON CONTINUOUS 6'-8" x 6'-6" CURB AND INFILL EXISTING OPENING. DEMOLISH DISCONNECT MOUNTED ON UNIT.
13. DEMOLISH SATELLITE DISK ON BALLAST SLED AND ALL ASSOCIATED WIRING
14. DEMOLISH 39" x 32" ROOF HATCH AND PATCH ROOF DECK; SEE STRUCTURAL DRAWINGS
15. DEMOLISH KITCHEN HOOD MAKE UP AIR ON 29" x 29" CURB AND PATCH ROOF DECK; SEE STRUCTURAL DRAWINGS
16. DEMOLISH KITCHEN HOOD EXHAUST ON 29" x 29" CURB AND PATCH ROOF DECK; SEE STRUCTURAL DRAWUBGS
17. DEMOLISH EXISTING 2" Ø PLUMBING VENT
18. DEMOLISH EXISTING METAL COPING- TYPICAL
19. DEMOLISH ABANDONED 5"x5" STEEL ANGLE
20. DEMOLISH WALL MOUNTED RECEPTACLE
21. DEMOLISH ELECTRICAL THRU WALL AND PATCH WALL WITH CONSTRUCTION TO MATCH ADJACENT
22. DEMOLISH WALL MOUNTED ANTENNA
23. PUBLIC WIFI ANTENNA TO BE REMOVED AND REINSTALLED BY OWNER
24. DEMOLISH EXISTING METAL COPING, WOOD BLOCKING, AND TOP COURSE OF CMU IN ACCORDANCE WITH DETAIL 1 ON SHEET D102



DEMOLITION ROOF PLAN

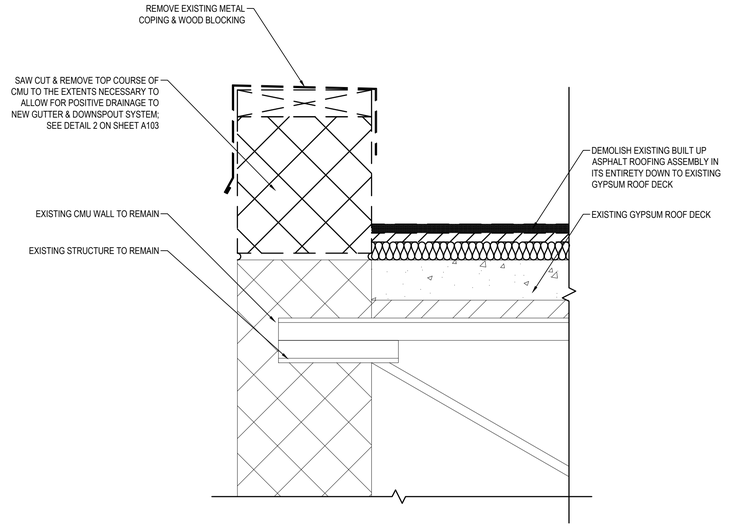
SCALE: 1/8"=1'-0"

TRUE NORTH

PLAN NORTH

0 4' 8' 16'

SCALE: 1/8" = 1'-0"



ROOF EDGE DEMOLITION DETAIL 1

SCALE: 3"=1'-0"

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HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0000889

DEMOLITION ROOF PLAN

3/12/26

SHEET D102

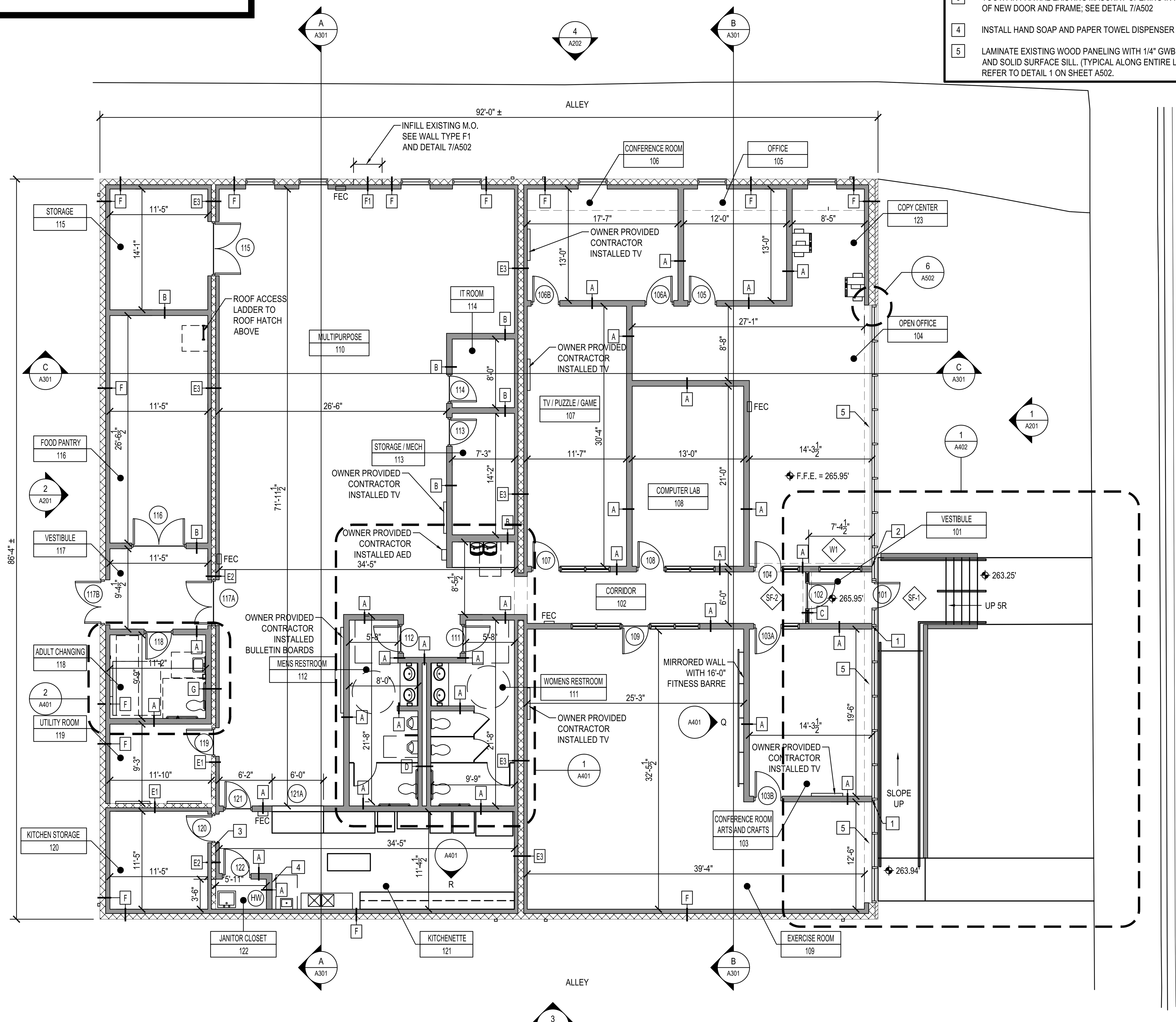
LEGEND

- NEW WALL
- EXISTING CMU WALL

GENERAL NOTE:
CONTRACTOR TO SCRAPE ENTIRE EXISTING CONCRETE SUB FLOOR AND APPLY CEMENTITIOUS SELF-LEVELING COMPOUND TO ACHIEVE SUITABLE SUBSTRATE FOR INSTALLATION OF NEW FLOORING FINISHES.

KEYED NOTES:

1. CENTER WALL ON MULLION. PROVIDE ALUMINUM PARTITION CLOSURE AT EXISTING STOREFRONT MULLION. SEE DETAIL 2 ON SHEET A502.
2. PROVIDE ALUMINUM PARTITION CLOSURE AT EXISTING STOREFRONT GLAZING. SEE DETAIL J14 ON SHEET A602.
3. TOOTH-IN PARTIAL EXISTING MASONRY OPENING IN PREPARATION FOR THE INSTALLATION OF NEW DOOR AND FRAME; SEE DETAIL 7/A502
4. INSTALL HAND SOAP AND PAPER TOWEL DISPENSER FOR KITCHENETTE HAND SINK
5. LAMINATE EXISTING WOOD PANELING WITH 1/4" GWB. INSTALL NEW RESILIENT WALL BASE AND SOLID SURFACE SILL. (TYPICAL ALONG ENTIRE LENGTH OF EXISTING STOREFRONT)- REFER TO DETAIL 1 ON SHEET A502.

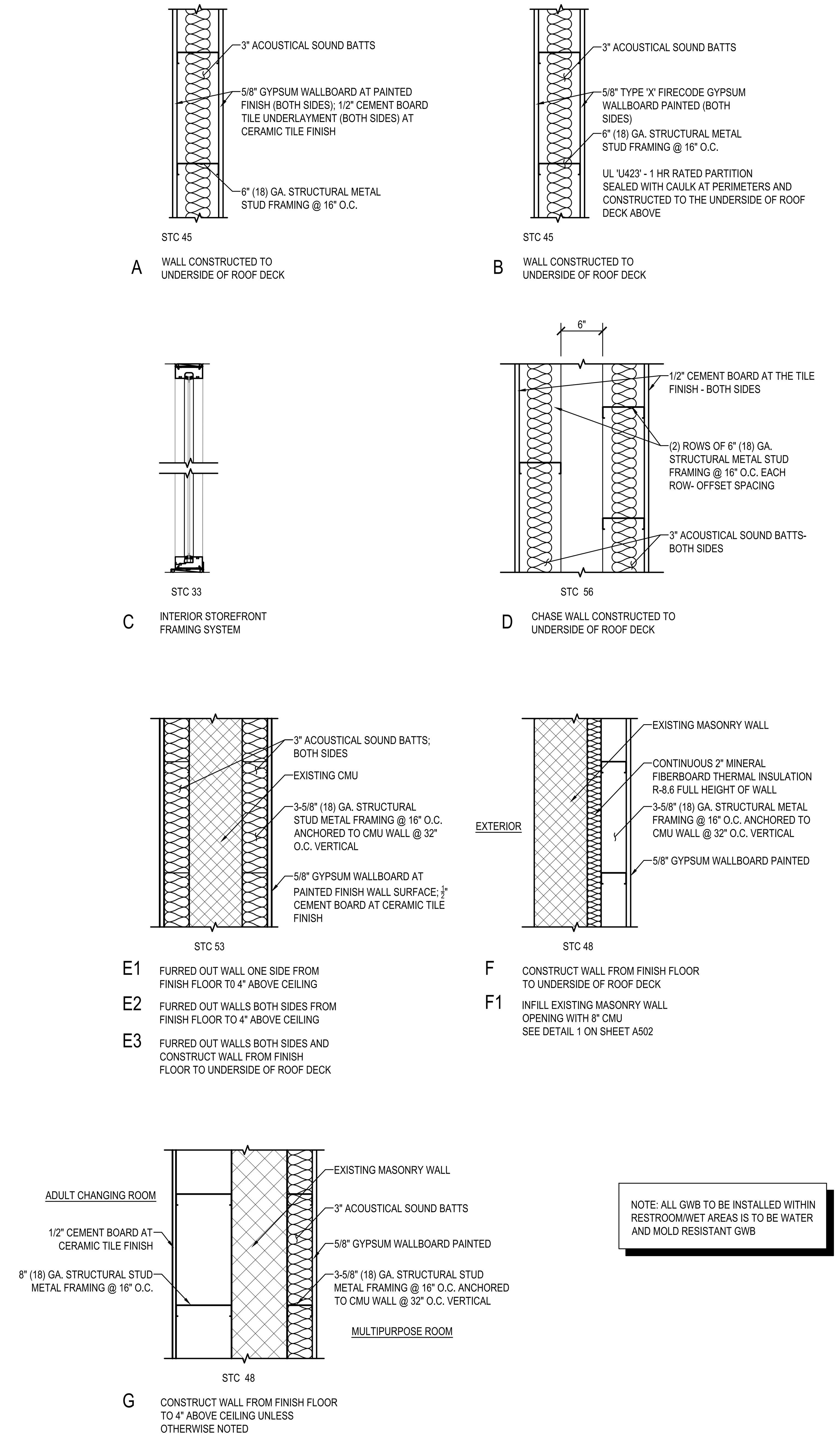


FLOOR PLAN
SCALE: 1/8"=1'-0"

TRUE NORTH

PLAN NORTH

SCALE: 1/8" = 1'-0"



NOTE: ALL GWB TO BE INSTALLED WITHIN RESTROOM/WET AREAS IS TO BE WATER AND MOLD RESISTANT GWB

WALL TYPES
SCALE: 1"=1'-0"

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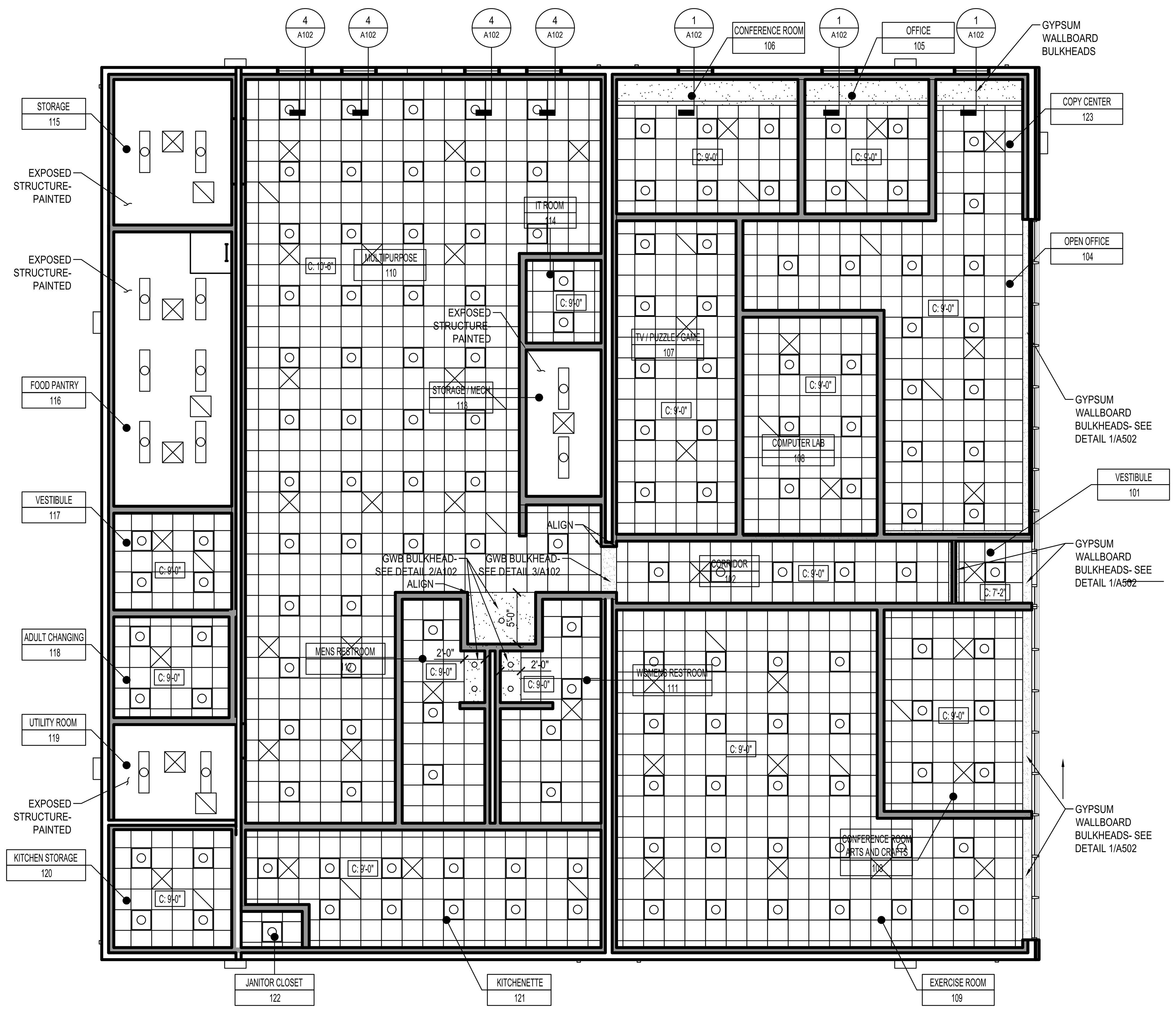
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

FLOOR PLAN

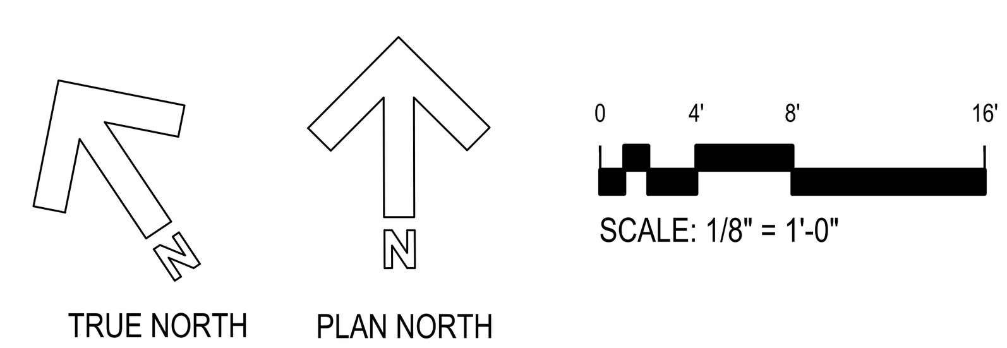
3/12/26

SHEET
A101



REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

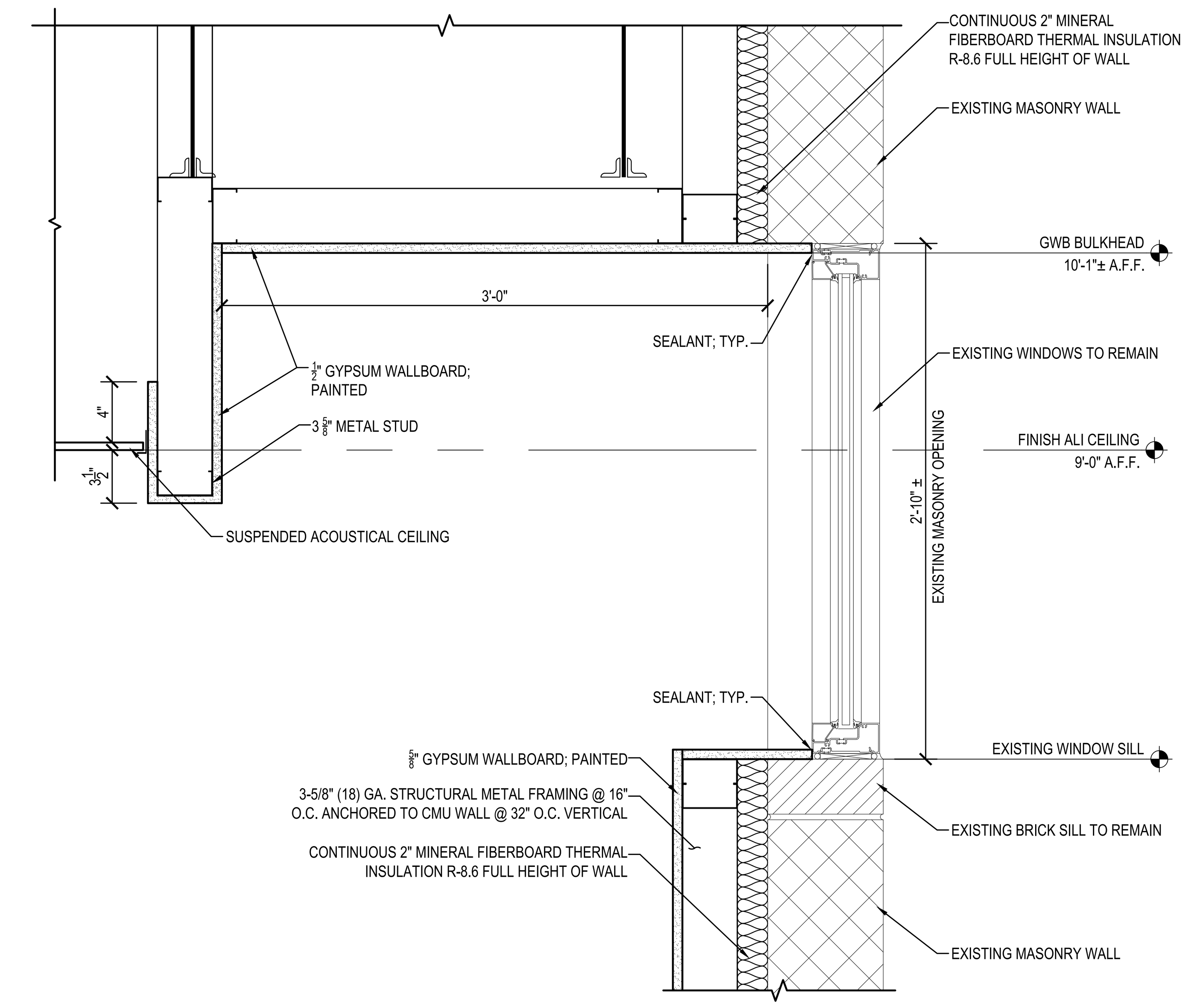


NOTE:

EXPOSED STRUCTURE TO BE PAINTED:
UNDERSIDE OF ROOF DECK, STEEL ROOF FRAMING, DUCTWORK, AND WALL SURFACES 10'-0" A.F.F. TO UNDERSIDE OF ROOF DECK

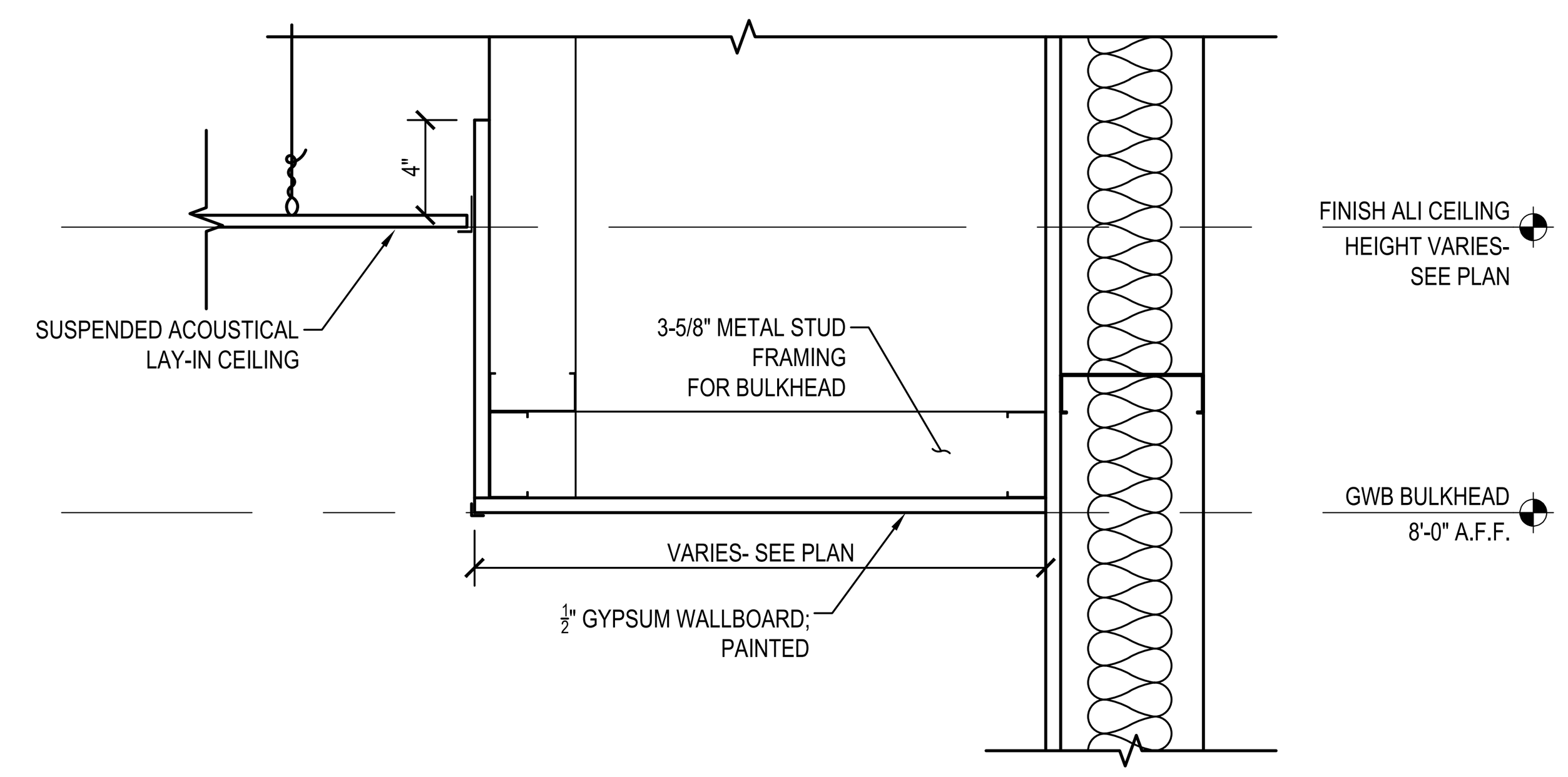
LEGEND

- 2X2 ACOUSTICAL LAY-IN CEILING
- SUSPENDED GYPSUM WALL BOARD CEILING; PAINTED
- 2X2 LAY-IN LIGHT FIXTURE
- 4" ROUND RECESSED LIGHT FIXTURE
- 1X4 LED STRIP FIXTURE
- EXTERIOR WALL MOUNTED FIXTURE
- SUPPLY DIFFUSERS
- RETURN AIR GRILLE



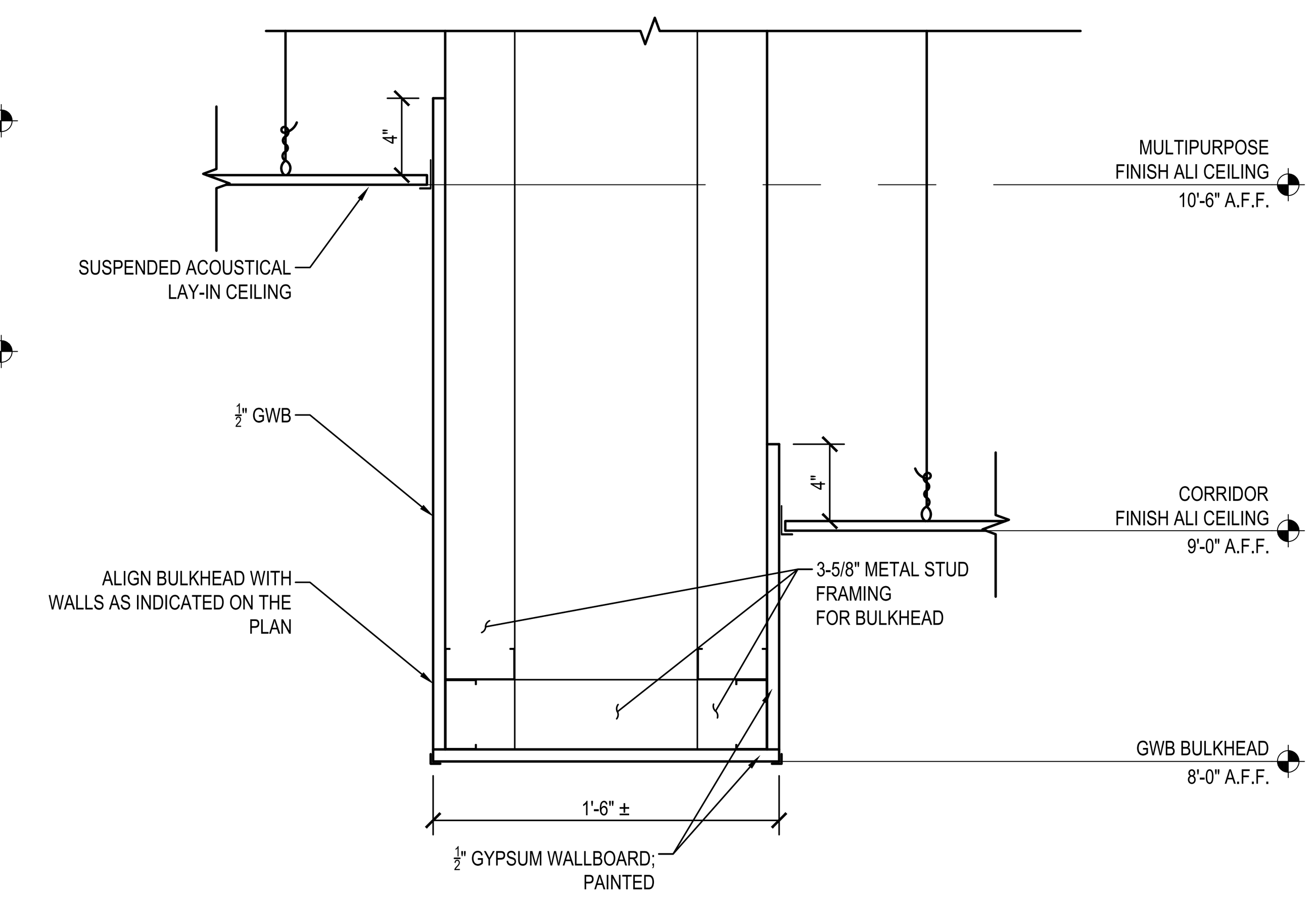
REFLECTED CEILING PLAN DETAIL 1

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



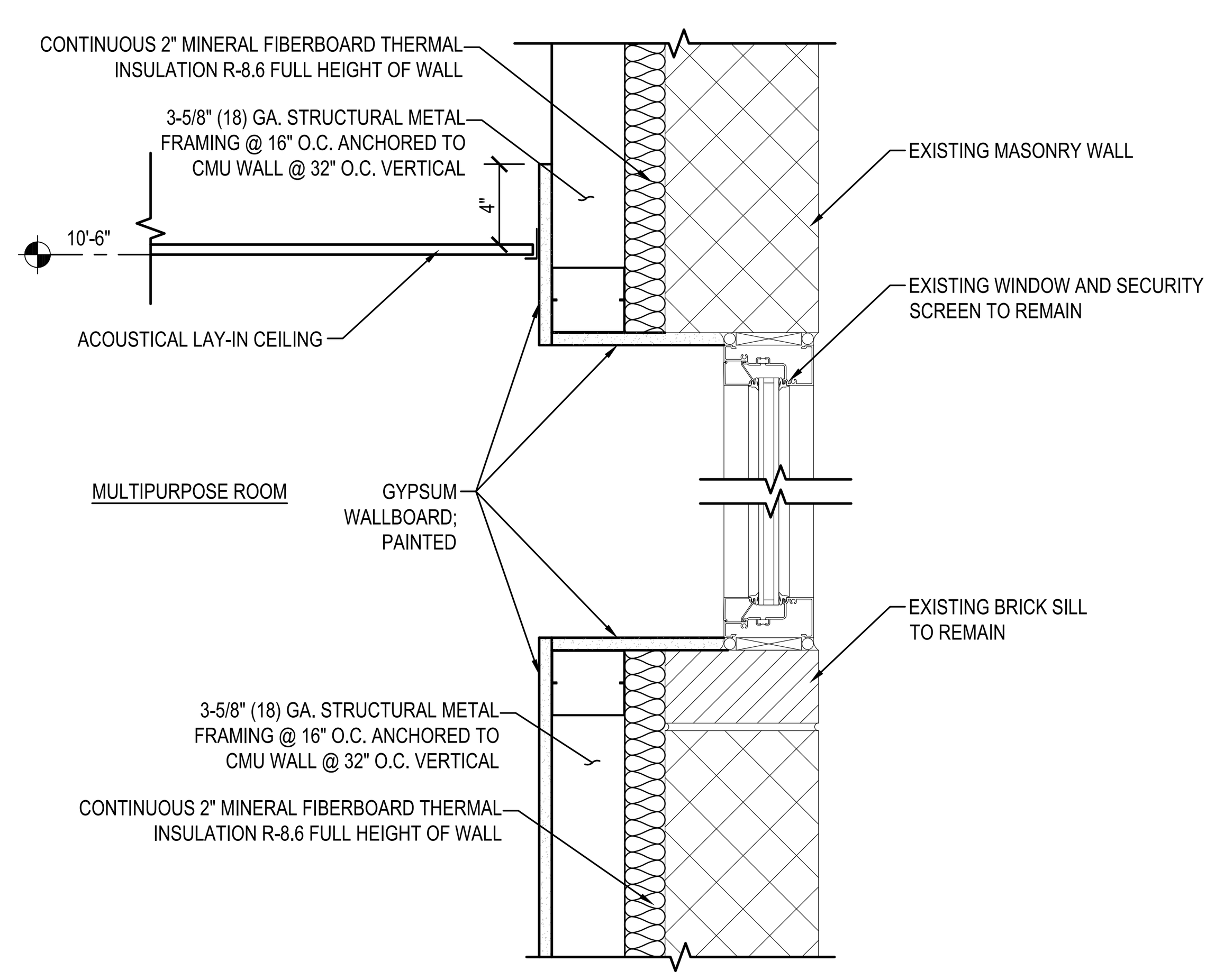
REFLECTED CEILING PLAN DETAIL 2

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



REFLECTED CEILING PLAN DETAIL 3

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



EXISTING WINDOW DETAIL 4

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

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4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

REFLECTED CEILING PLAN

3/12/26

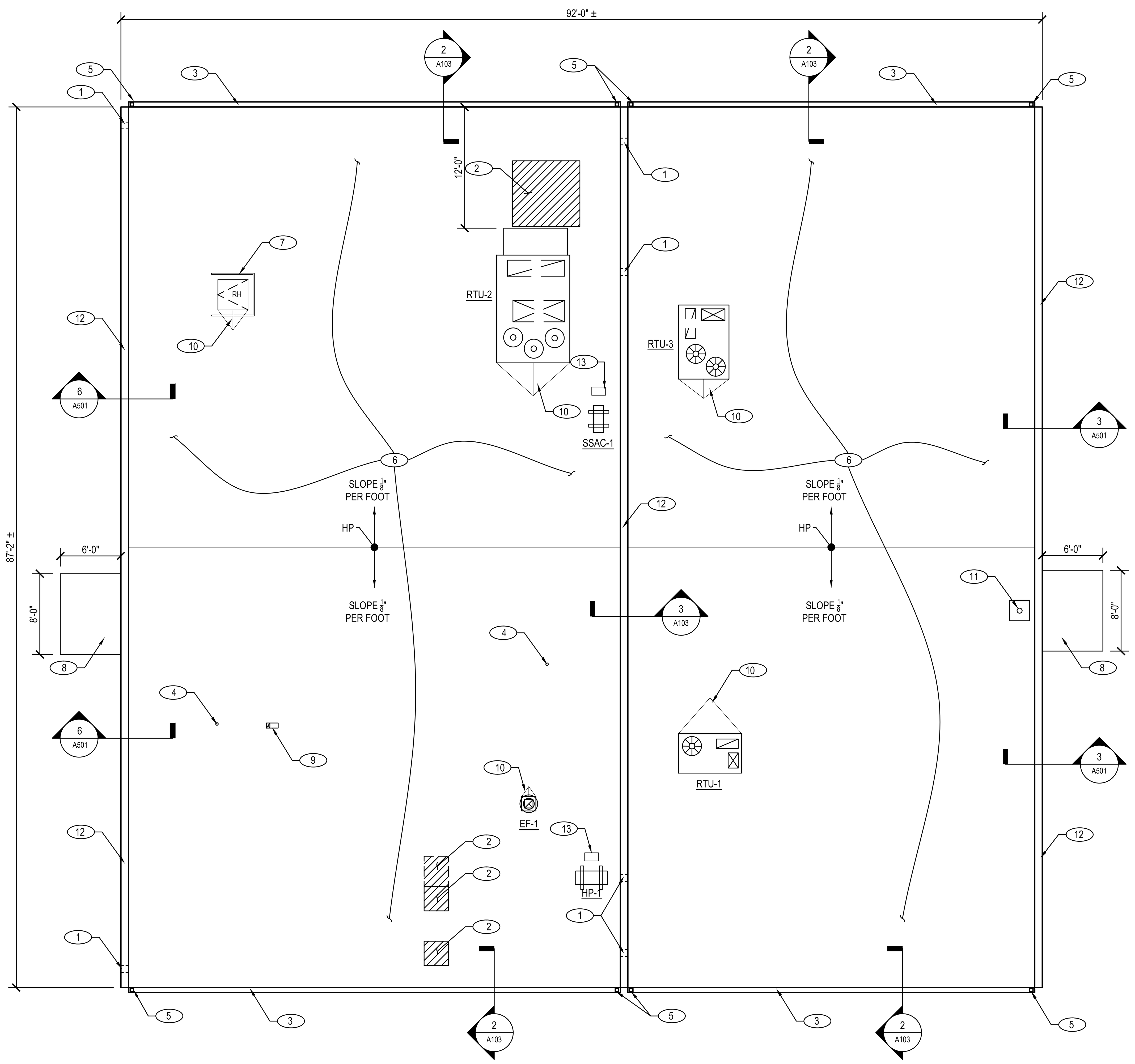
SHEET A102

LEGEND:

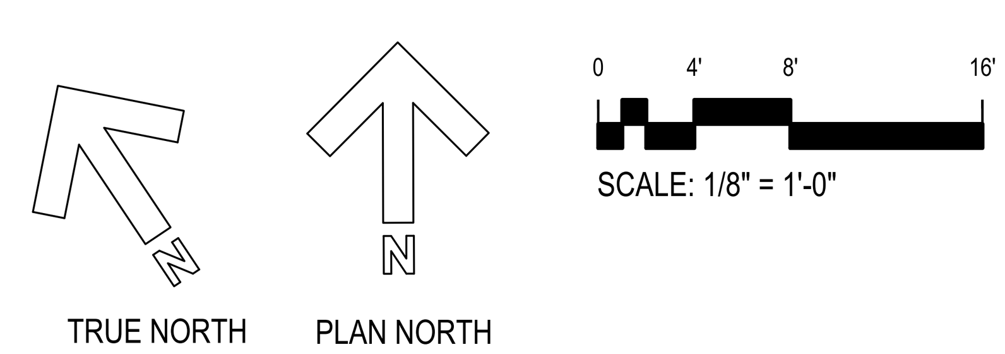
Symbol	Description
RH	ROOF HATCH WITH RAIL SYSTEM AND SELF-CLOSING GATE - SEE TYPICAL ROOF HATCH DETAIL 1 ON SHEET A501
VP °	PLUMBING VENT PIPE - SEE TYPICAL VENT PIPE DETAIL 4 ON SHEET A501
HP	HIGH-POINT WITH SLOPE POINTING IN THE DOWNWARD DIRECTION
RTU # HP #	MECHANICAL UNIT ON ROOF CURB WITH CRICKETING MATERIAL AT HIGH-SIDE OF CURB - SEE TYPICAL CURB DETAILS 2 & 5 ON SHEET A501

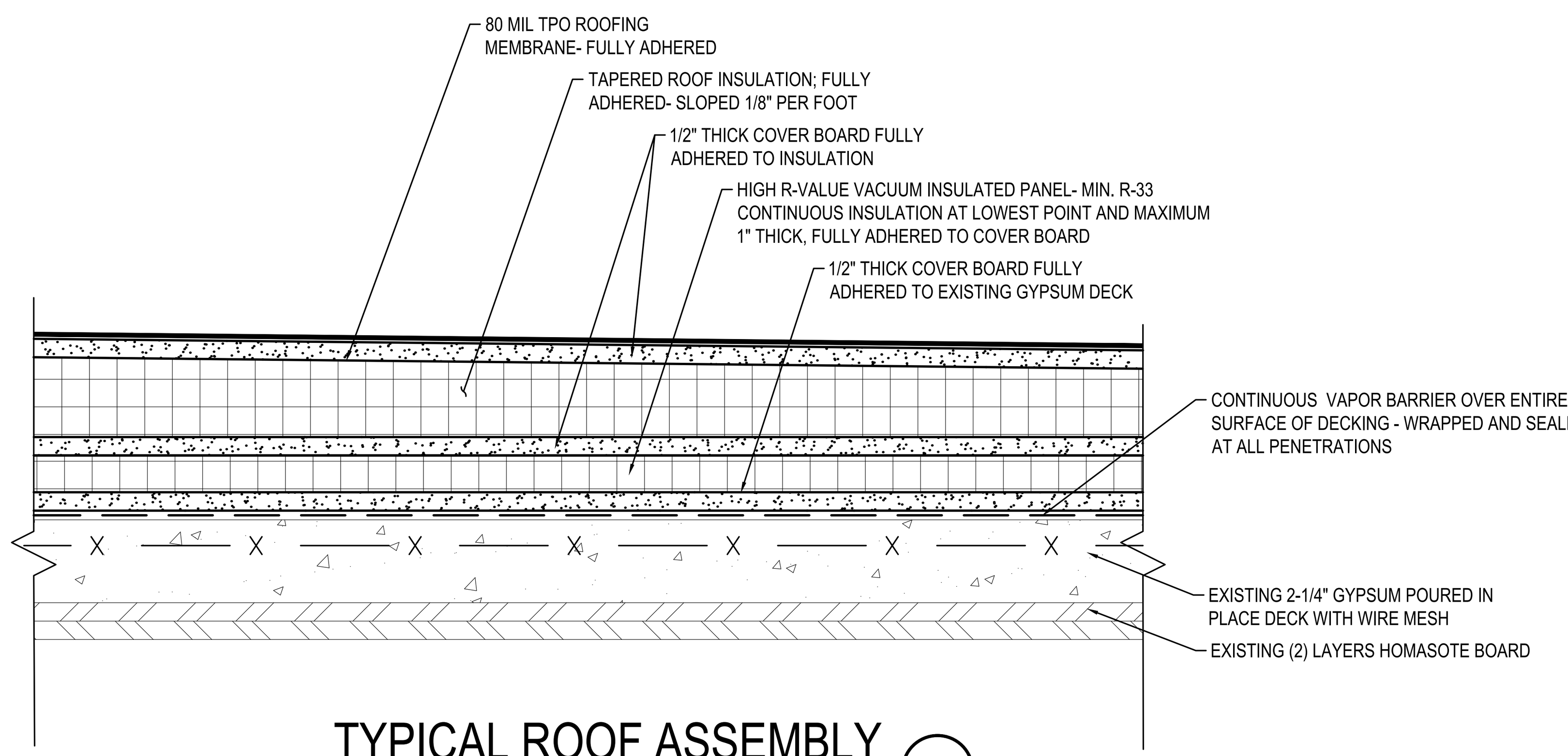
KEYED DRAWING NOTES

1. REMOVE EXISTING SCUPPER & INFILL EXISTING OPENING WITH CONSTRUCTION TO MATCH ADJACENT
2. INFILL EXISTING DECK PENETRATIONS PER STRUCTURAL DRAWINGS
3. INSTALL NEW CONTINUOUS ALUMINUM GUTTER ALONG EDGE OF ROOF PER DETAIL 2 ON SHEER A103
4. CONSTRUCT VENT PIPE PER DETAIL 4 ON SHEET A501
5. INSTALL NEW ALUMINUM DOWNSPOUT AND CONNECT TO EXISTING UNDERGROUND STORM WATER DRAINAGE SYSTEM IN ACCORDANCE WITH DETAIL 4 ON SHEET A502
6. PATCH AND REPAIR EXISTING GYPSUM DECK (BASED UPON UNIT PRICING ESTABLISHED IN THE CONTRACT) AS NECESSARY TO PROVIDE SUITABLE SUBSTRATE FOR INSTALLATION OF NEW MEMBRANE ROOFING SYSTEM. INSTALL NEW TPO ROOFING PER TYPICAL ROOFING ASSEMBLY DETAIL 1 ON SHEET A103.
7. CONSTRUCT NEW ROOF HATCH AND RAILING SYSTEM WITH LADDER SAFETY POST PER DETAIL 1 ON SHEET A501
8. ALTERNATE #1: INSTALL 6'-0" x 8'-0" PRE-FABRICATED CANOPY WITH INTEGRAL LIGHTING & DRAINAGE (BELOW); SEE SHEET A104 FOR ADDITIONAL INFORMATION
9. EXHAUST DUCT TO GOOSENECK PER DETAIL 8 ON SHEET A502; SEE MECHANICAL DRAWINGS
10. CONSTRUCT CRICKETS PER CODE
11. PUBLIC WIFI ANTENNA TO BE REMOVED AND REINSTALLED BY THE OWNER; CONTRACTOR TO COORDINATE
12. INSTALL NEW CONTINUOUS METAL COPING; COPING TO BE CAPPED AT ENDS OF WALL
13. INSTALL ROOF VAULT PENETRATION PROTECTION BY RPH PRODUCTS OR APPROVED EQUAL

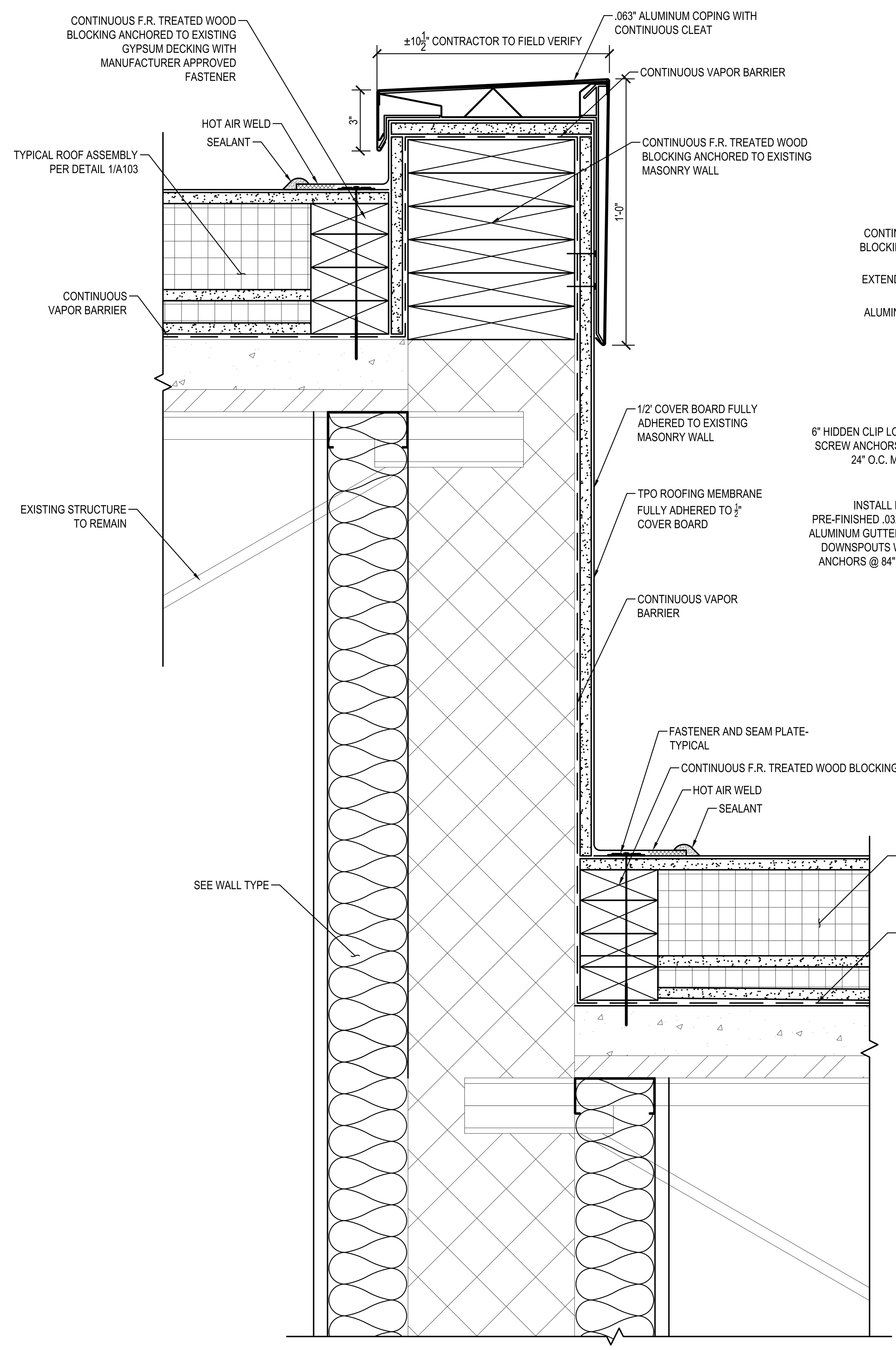


ROOF PLAN
SCALE: 1/8"=1'-0"

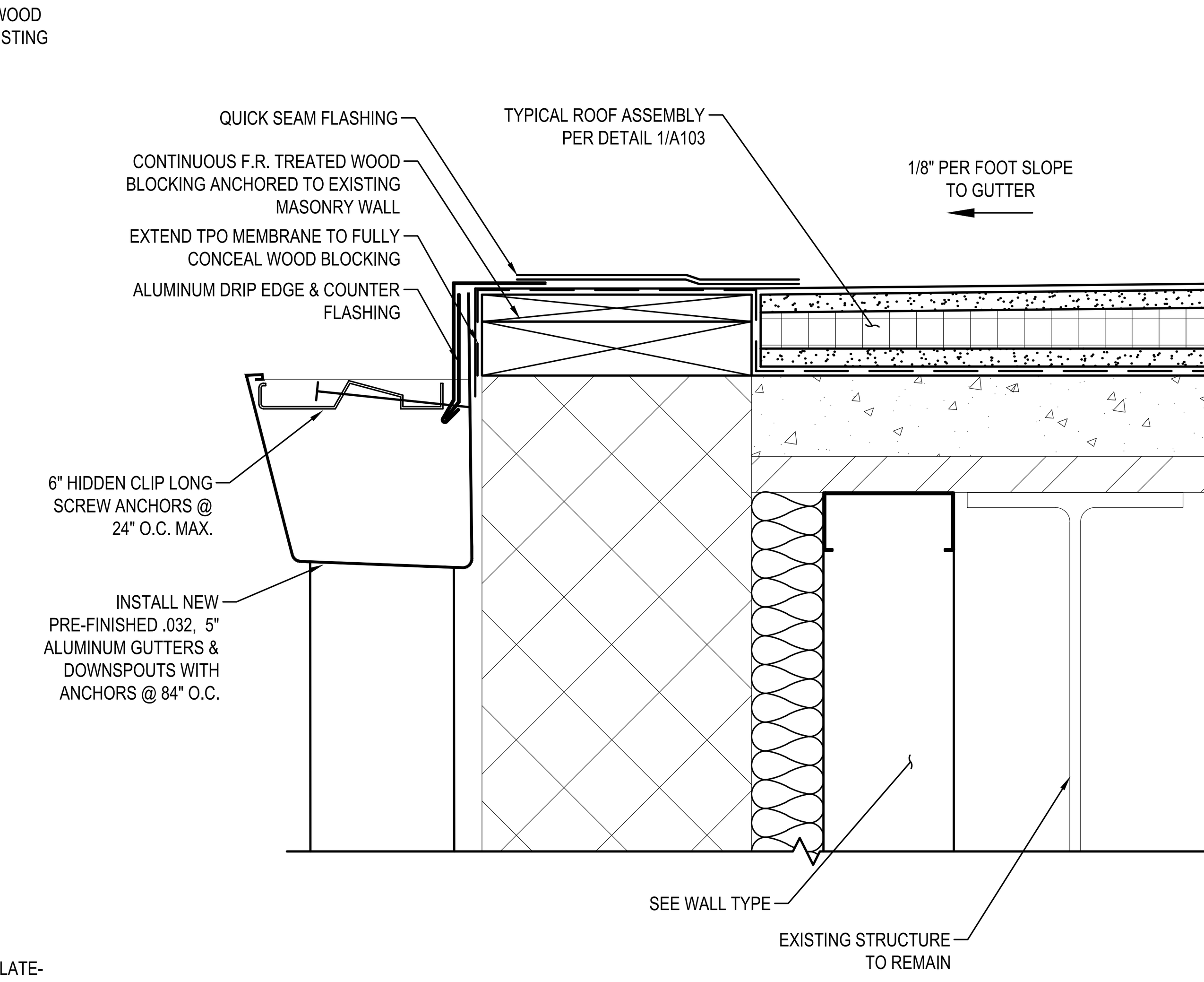




TYPICAL ROOF ASSEMBLY (1)
SCALE: 3"=1'-0"



ROOF TRANSITION DETAIL (3)
SCALE: 3"=1'-0"



ROOF EDGE @ GUTTER DETAIL (2)
SCALE: 3"=1'-0"

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HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

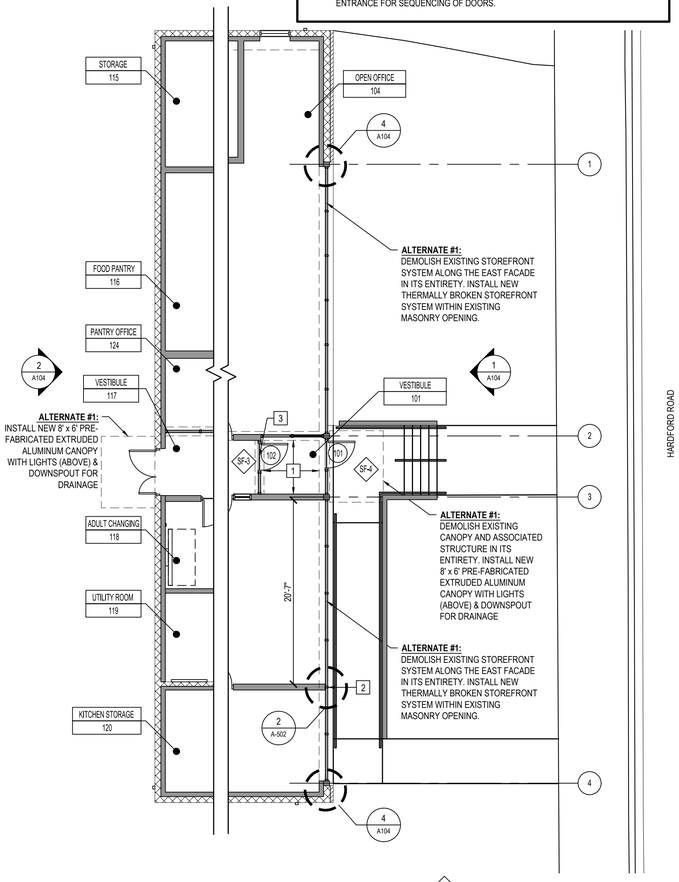
ROOF PLAN & DETAILS

3/12/26

SHEET A103

KEYED NOTES:

1. INSTALL NEW 2x2 ACOUSTICAL LAY-IN CEILING AT 9'-0" AFF IN LIEU OF 7'-2" AFF HEIGHT INDICATED IN BASE BID RCP.
2. CENTER WALL ON MULLION. PROVIDE ALUMINUM PARTITION CLOSURE AT EXISTING (BASE BID)/ NEW (ALTERNATE #1) STOREFRONT MULLION.
3. ALIGN NEW INTERIOR STOREFRONT DOOR WITH NEW EXTERIOR STOREFRONT ENTRANCE FOR SEQUENCING OF DOORS.

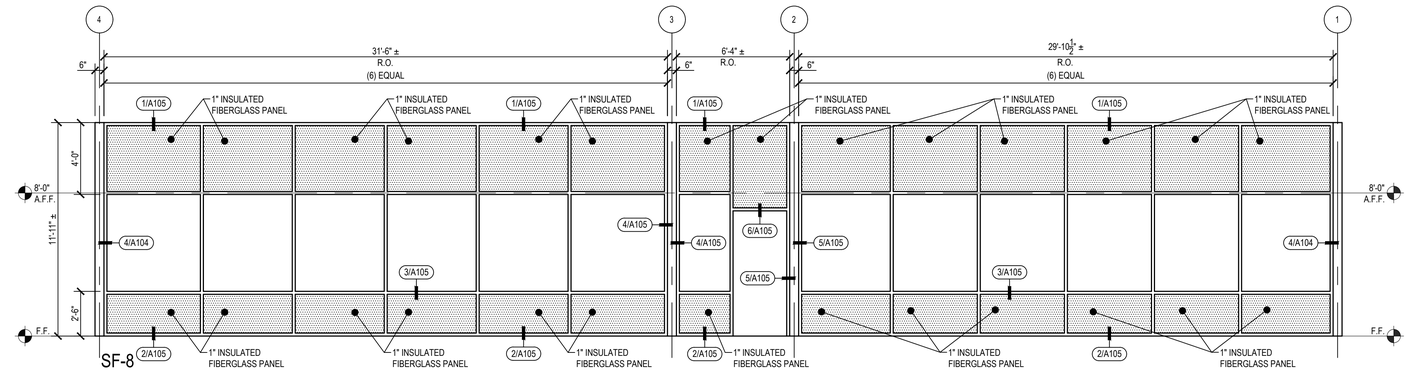


ALTERNATE #1 FLOOR PLAN

SCALE: 1/8"=1'-0"

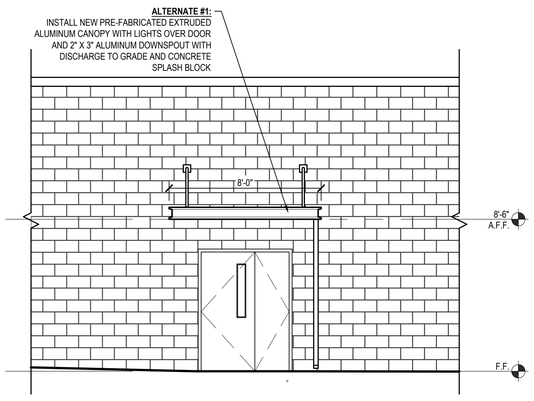
TRUE NORTH PLAN NORTH

SCALE: 1/8" = 1'-0"



ALTERNATE #1 - SF-4 ELEVATION

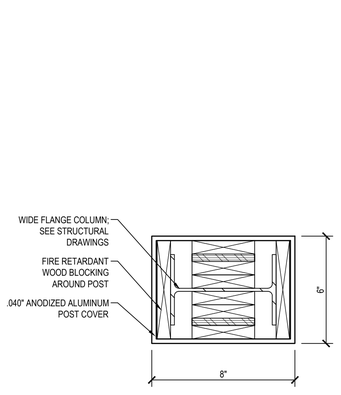
SCALE: 1/4"=1'-0"



ALTERNATE #1 - WEST ELEVATION

2

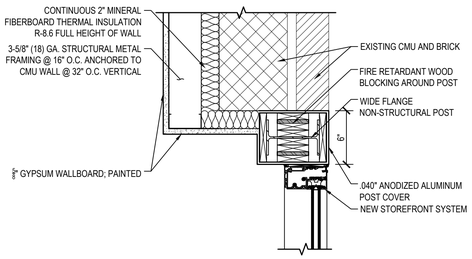
SCALE: 1/4"=1'-0"



ALTERNATE #1 - POST DETAIL AT SF

3

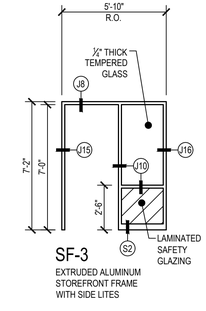
SCALE: 3"=1'-0"



ALTERNATE #1 - SF JAMB DETAIL

4

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

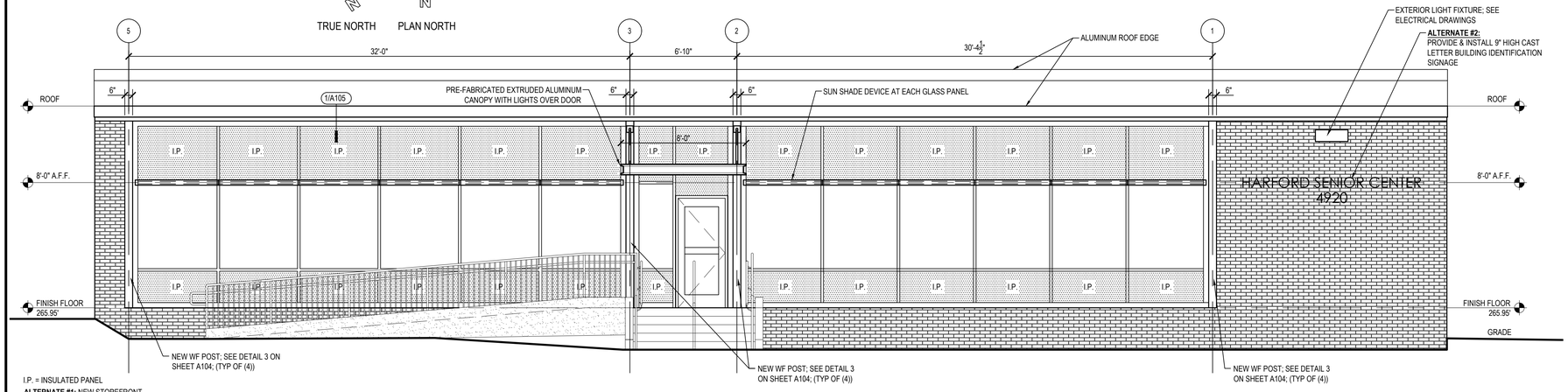


SF-3

EXTRUDED ALUMINUM STOREFRONT FRAME WITH SIDE LITES

INTERIOR STOREFRONT FRAME TYPE

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



ALTERNATE #1 & #2 - EAST ELEVATION

1

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

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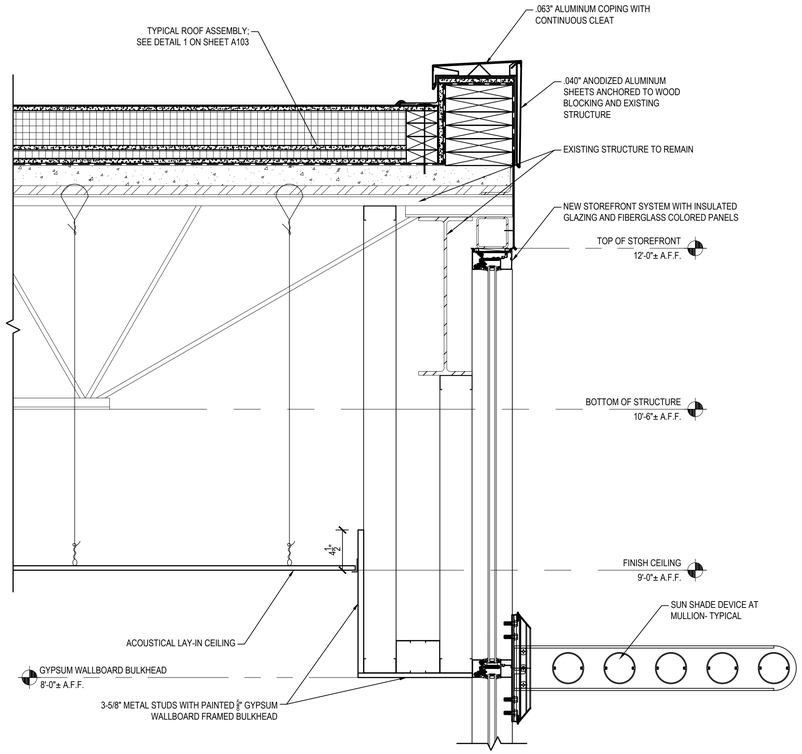
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

BID ALTERNATES #1 & #2

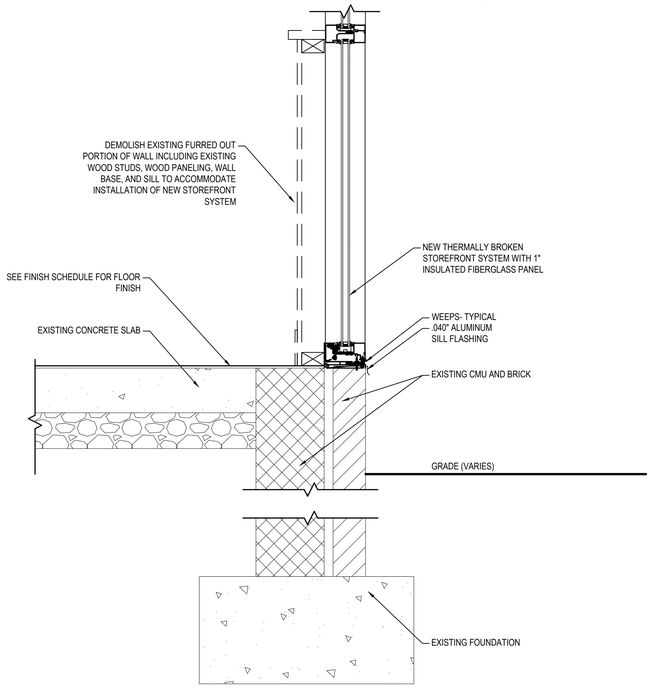
3/12/26

SHEET
A104



ALTERNATE #1 - SF HEAD DETAIL (1)

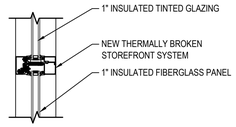
SCALE: 1-1/2"=1'-0"



ALTERNATE #1 - SF SILL DETAIL (2)

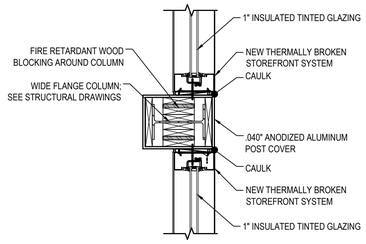
SCALE: 1-1/2"=1'-0"

NOTE:
THE EXISTING STRUCTURAL CONDITIONS AND CONNECTION DETAILS SUPPORTING THE CURRENT STOREFRONT ARE UNKNOWN. UPON SELECTIVE DEMOLITION OF THE EXISTING METAL FASCIA, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT TO ASSESS THE EXPOSED CONDITIONS. BASED ON THIS FIELD VERIFICATION, THE ARCHITECT WILL PROVIDE APPROPRIATE DETAILING FOR THE INSTALLATION OF THE NEW ROOF (BASE BID) AND THE NEW STOREFRONT FRAMING SYSTEM (ALTERNATE #1).



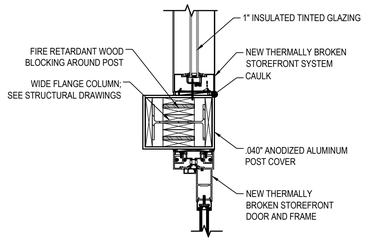
ALTERNATE #1 - SF JAMB DETAIL (3)

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



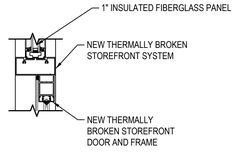
ALTERNATE #1 - SF JAMB DETAIL (4)

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



ALTERNATE #1 - SF JAMB DETAIL (5)

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



ALTERNATE #1 - SF HEAD DETAIL (6)

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

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

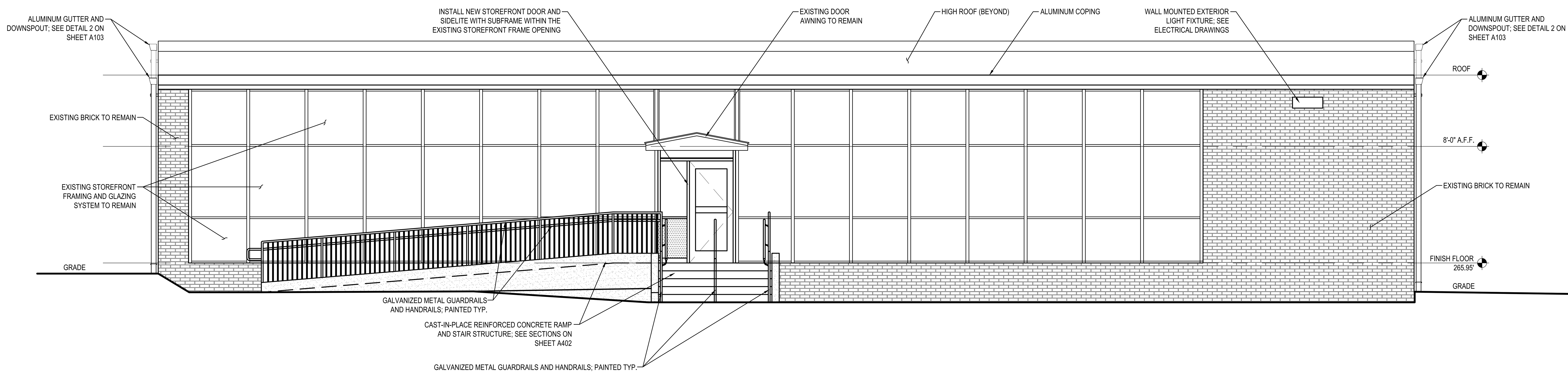
BID ALTERNATES #1 & #2

3/12/26

SHEET
A105

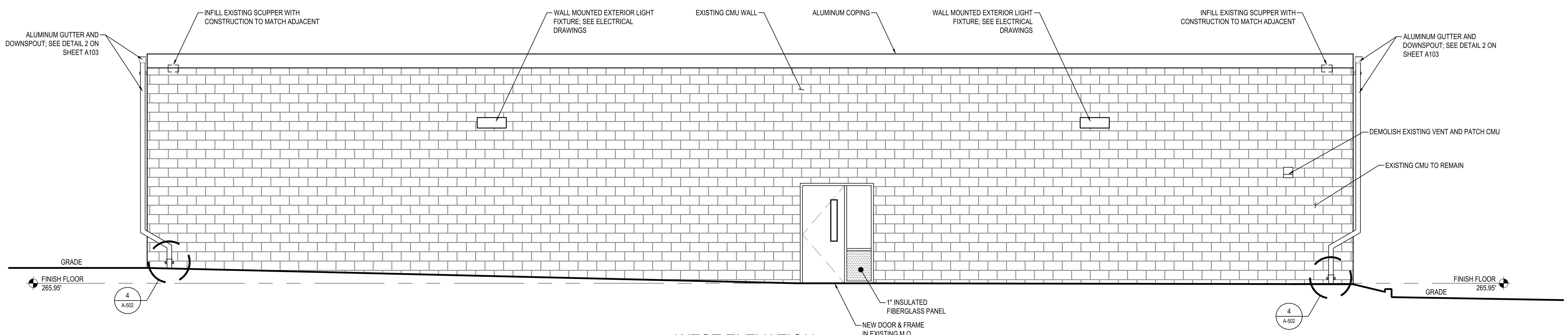
11 OF 51

GENERAL NOTE:
CONTRACTOR TO REMOVE ALL EXISTING WALL PENETRATIONS AS INDICATED ON THE ELEVATIONS AND PATCH THE EXISTING CMU WALL PER SPECIFICATIONS WITH CONSTRUCTION TO MATCH ADJACENT.



EAST ELEVATION (1)

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



WEST ELEVATION (2)

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

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

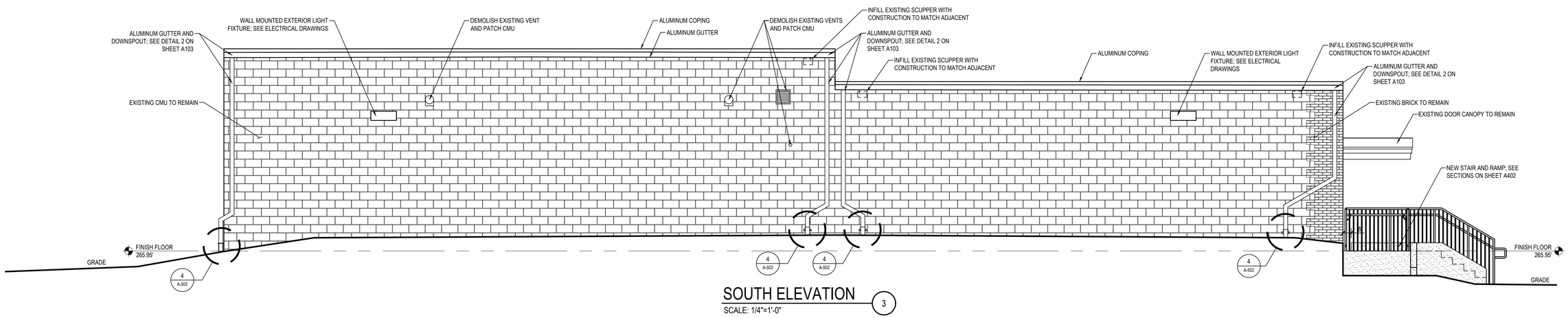
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ELEVATIONS

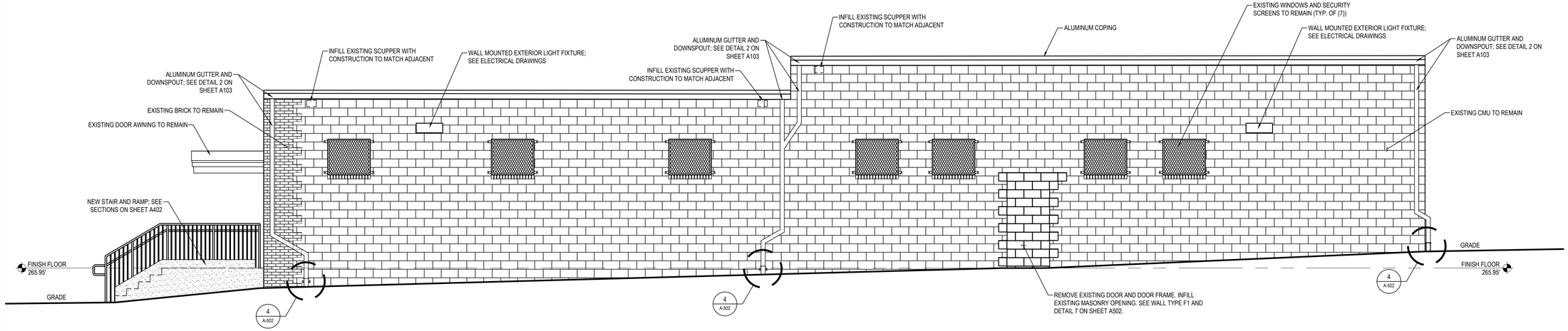
3/12/26

SHEET
A201

GENERAL NOTE:
CONTRACTOR TO REMOVE ALL EXISTING WALL PENETRATIONS AS INDICATED ON THE ELEVATIONS AND PATCH THE EXISTING CMU WALL PER SPECIFICATIONS WITH CONSTRUCTION TO MATCH ADJACENT.



SOUTH ELEVATION
SCALE: 1/4"=1'-0" — 3



NORTH ELEVATION
SCALE: 1/4"=1'-0" — 4

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STATE OF MARYLAND — No. 21386 — ARCHITECT

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

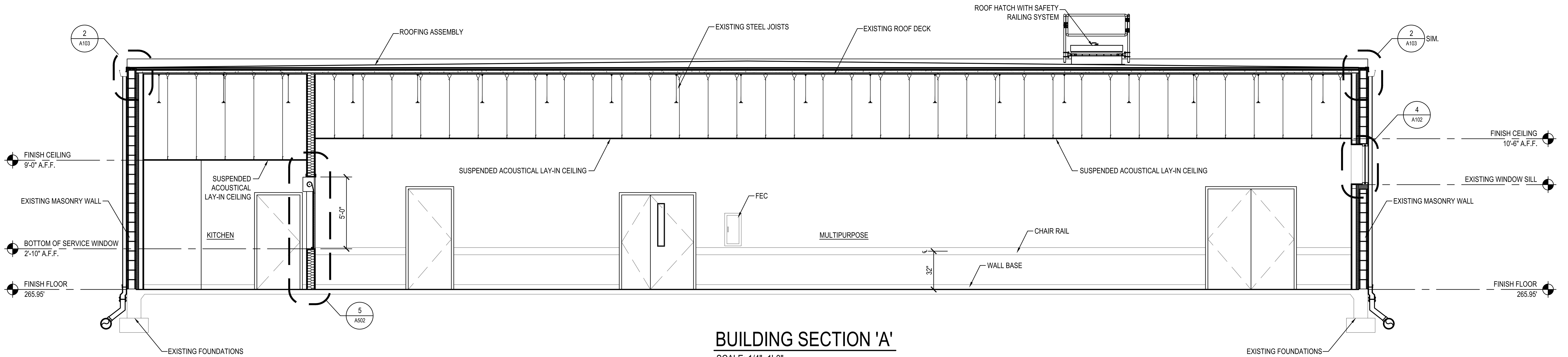
HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0008B9

ELEVATIONS

3/12/26

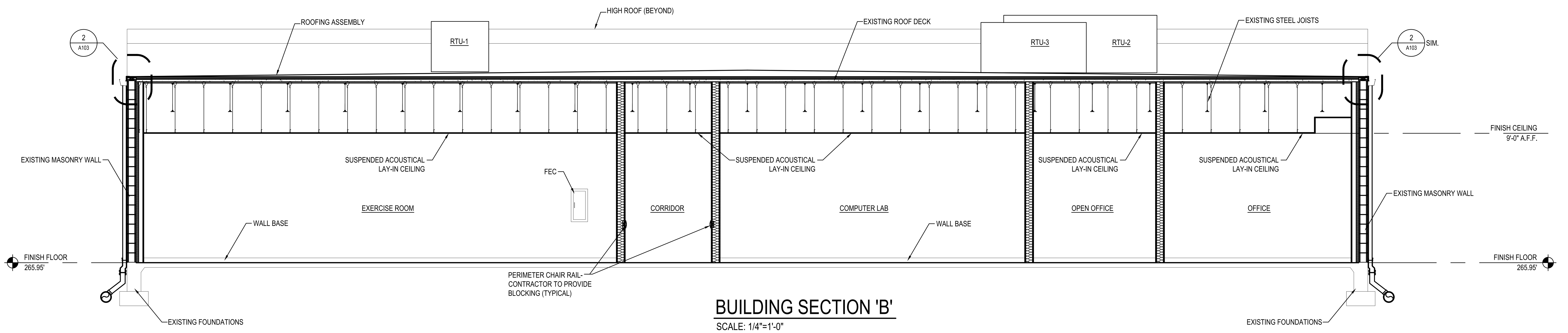
SHEET
A202

13 OF 51



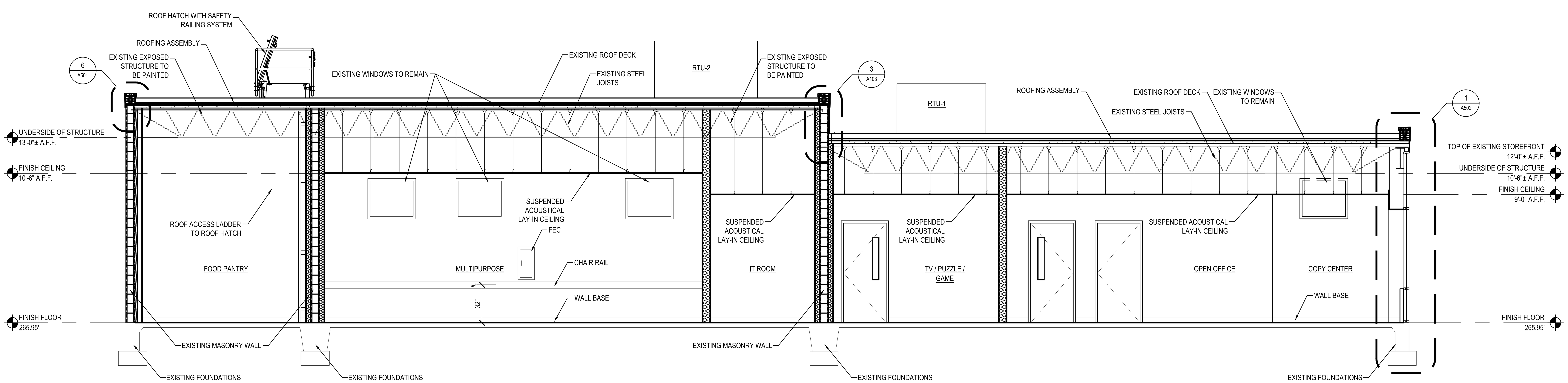
BUILDING SECTION 'A'

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



BUILDING SECTION 'B'

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



BUILDING SECTION 'C'

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

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

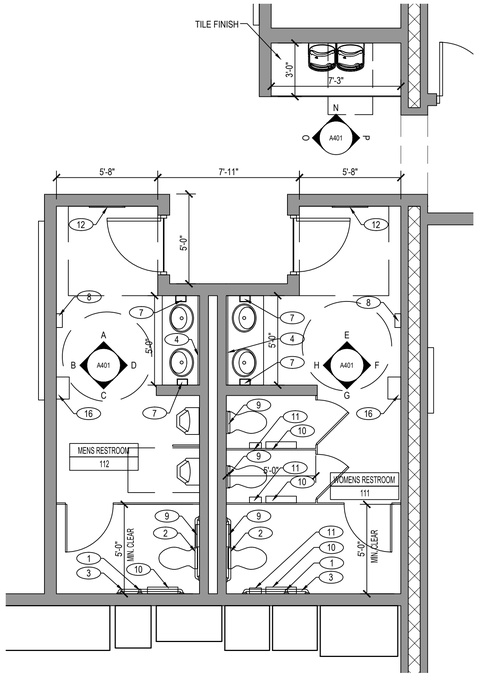
HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

BUILDING SECTIONS

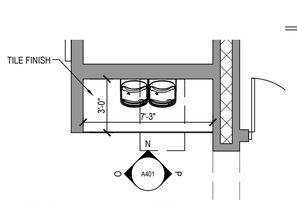
3/12/26

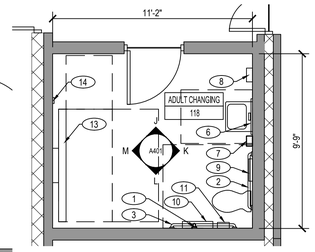
SHEET
A301



RESTROOMS 111 & 112 PLAN (1)

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



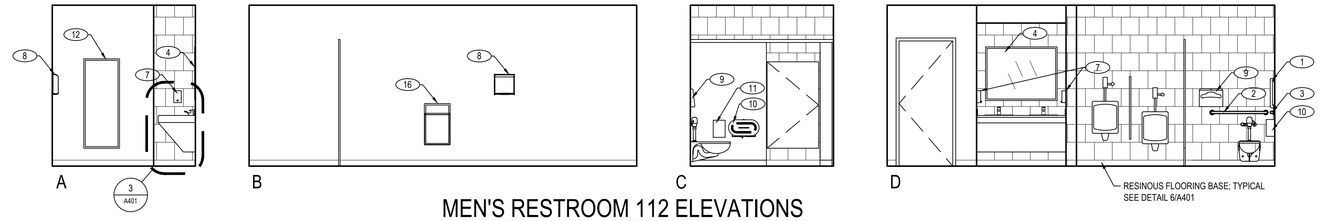


RESTROOM 118 PLAN (2)

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

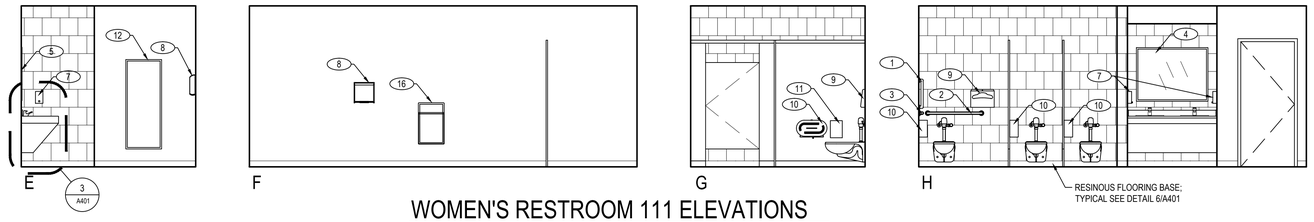
KEYED RESTROOM ELEVATION NOTES:

1	18" STAINLESS STEEL VERTICAL GRAB BAR
2	36" STAINLESS STEEL GRAB BAR
3	42" STAINLESS STEEL GRAB BAR
4	48"x36" MIRROR
5	NOT USED
6	24"x36" MIRROR
7	SOAP DISPENSER
8	HAND DRYER
9	TOILET SEAT COVER DISPENSER
10	TOILET PAPER DISPENSER
11	SANITARY NAPKIN DISPOSAL
12	24" X 60" MIRROR
13	ADJUSTABLE HEIGHT ADULT CHANGING STATION
14	WALL MOUNTED EMERGENCY STOP
15	COAT HOOKS AT STANDARD AND ADA HEIGHT
16	WASTE RECEPTACLE



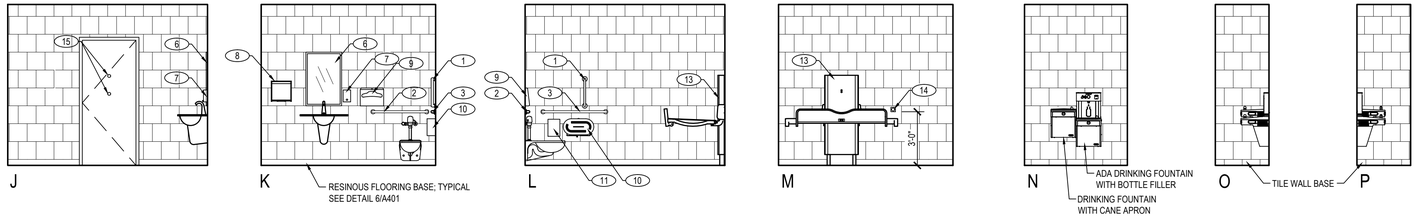
MEN'S RESTROOM 112 ELEVATIONS

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



WOMEN'S RESTROOM 111 ELEVATIONS

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

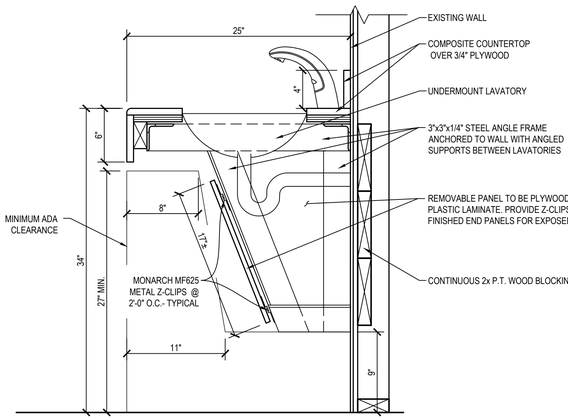


ADULT CHANGING 118 ELEVATIONS

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

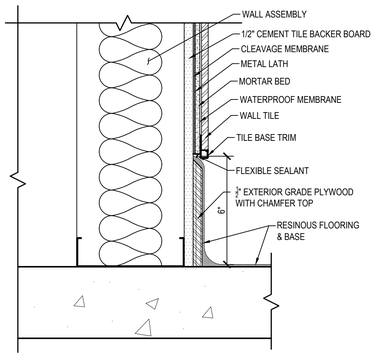
WATER FOUNTAIN ELEVATIONS

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



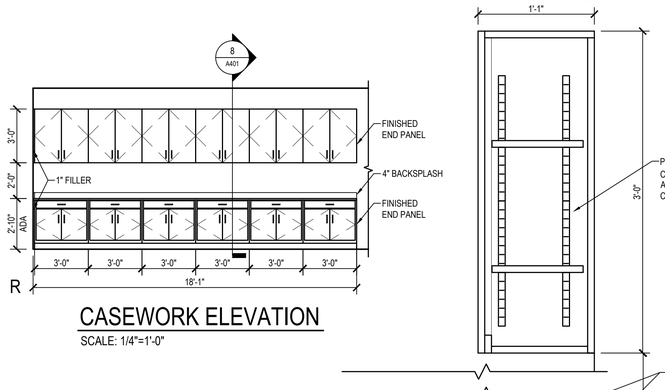
LAVATORY DETAIL (3)

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



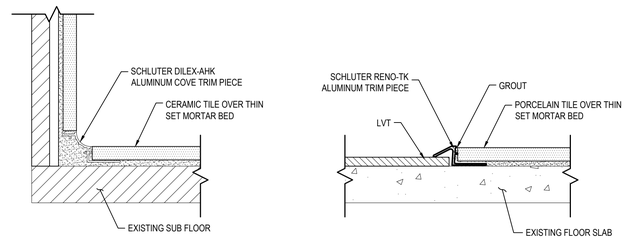
RESINOUS COVE BASE & WALL TILE DETAIL (6)

SCALE: 3"=1'-0"



CASEWORK ELEVATION

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

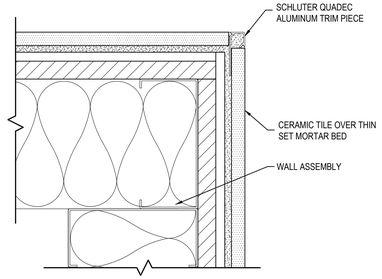


TILE COVE BASE DETAIL (4)

SCALE: 6"=1'-0"

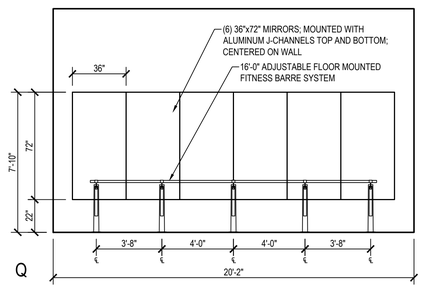
TILE / LVP TRANSITION DETAIL (5)

SCALE: 6"=1'-0"



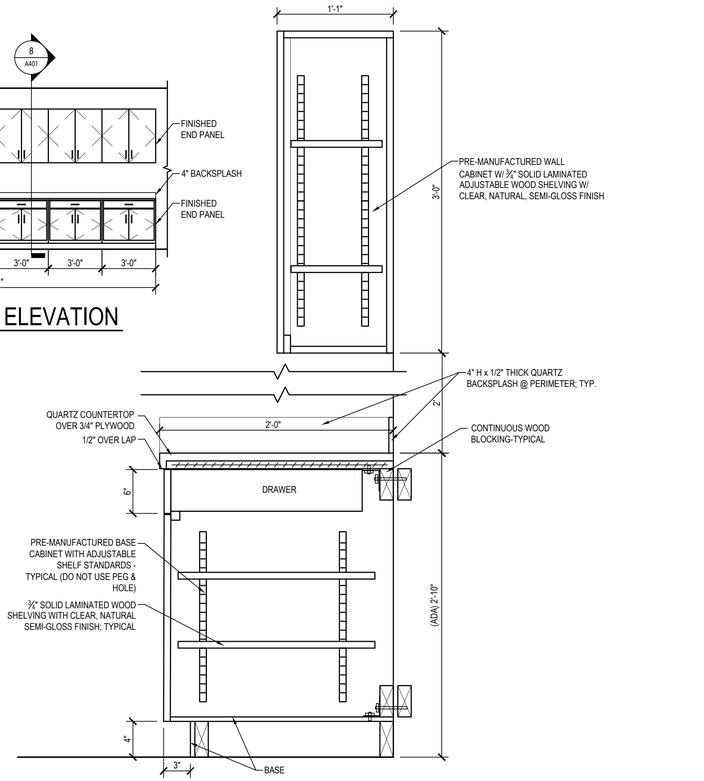
OUTSIDE CORNER TILE TRIM DETAIL (7)

SCALE: 6"=1'-0"



MIRROR WALL ELEVATION

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



CASEWORK SECTION (8)

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

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CITY OF BALTIMORE
DEPARTMENT OF
GENERAL SERVICES
CAPITAL PROJECTS
DIVISION

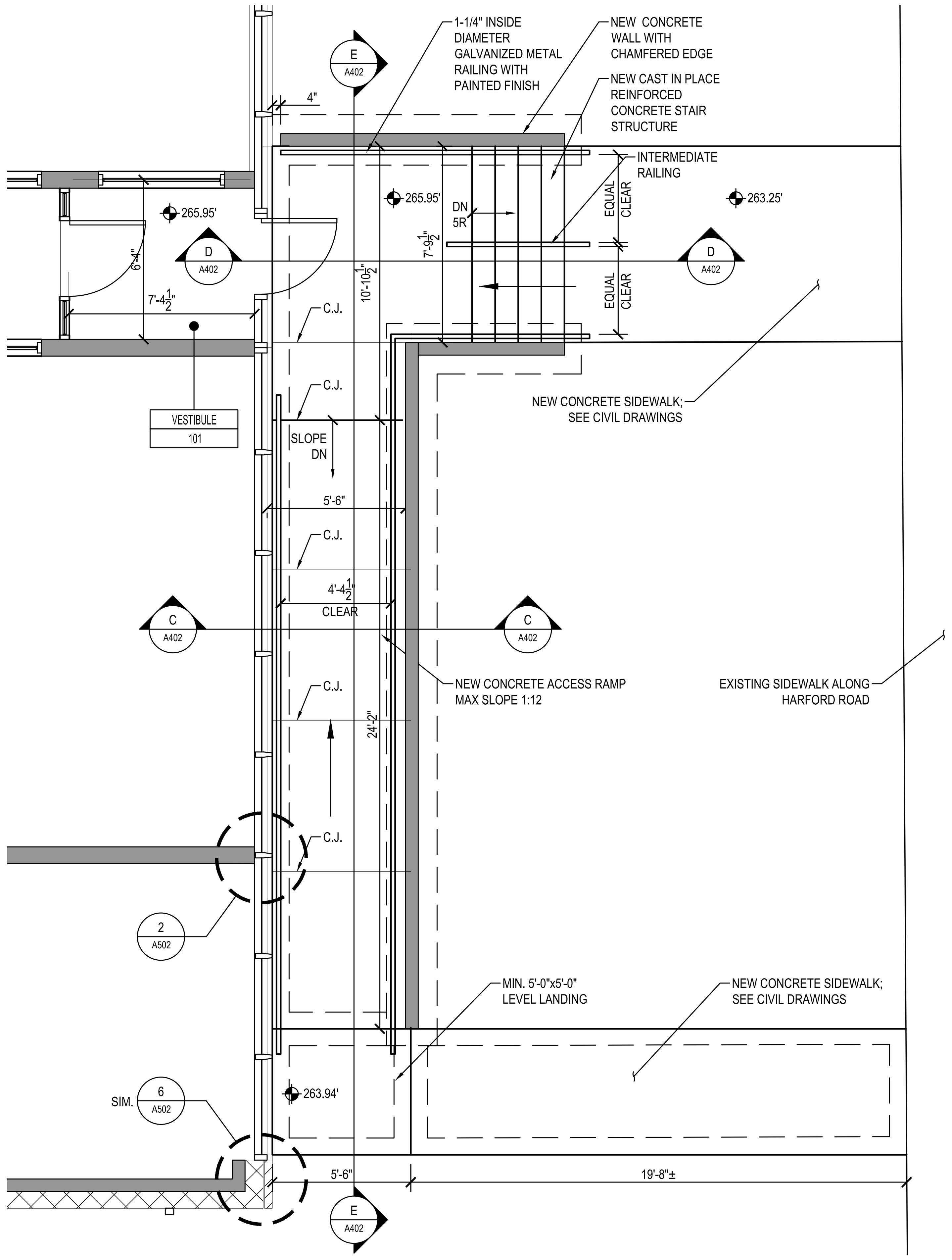
NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER
RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0008889

INTERIOR
ELEVATIONS
& DETAILS

3/12/26

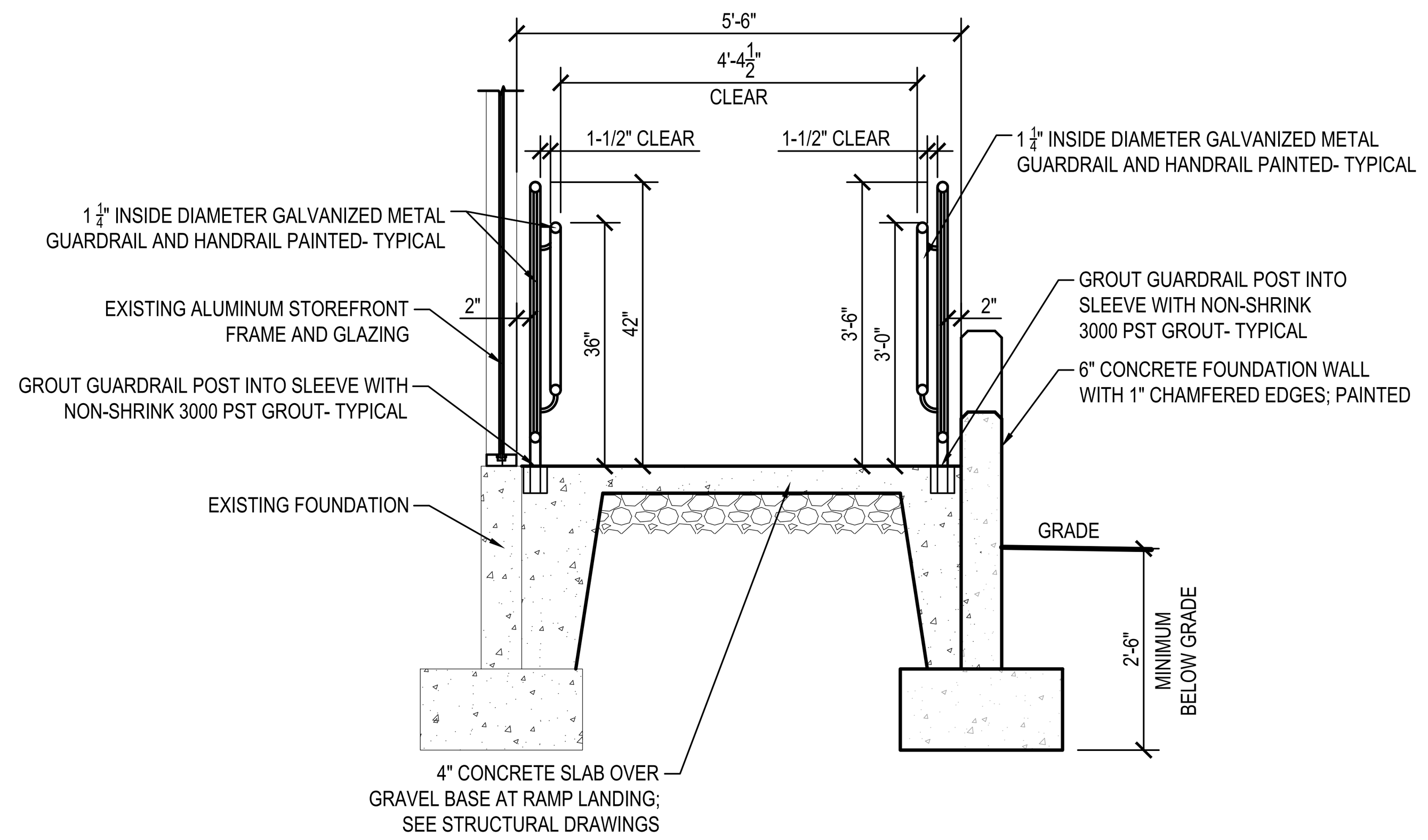
SHEET
A401



EXTERIOR RAMP AND STAIR PLAN

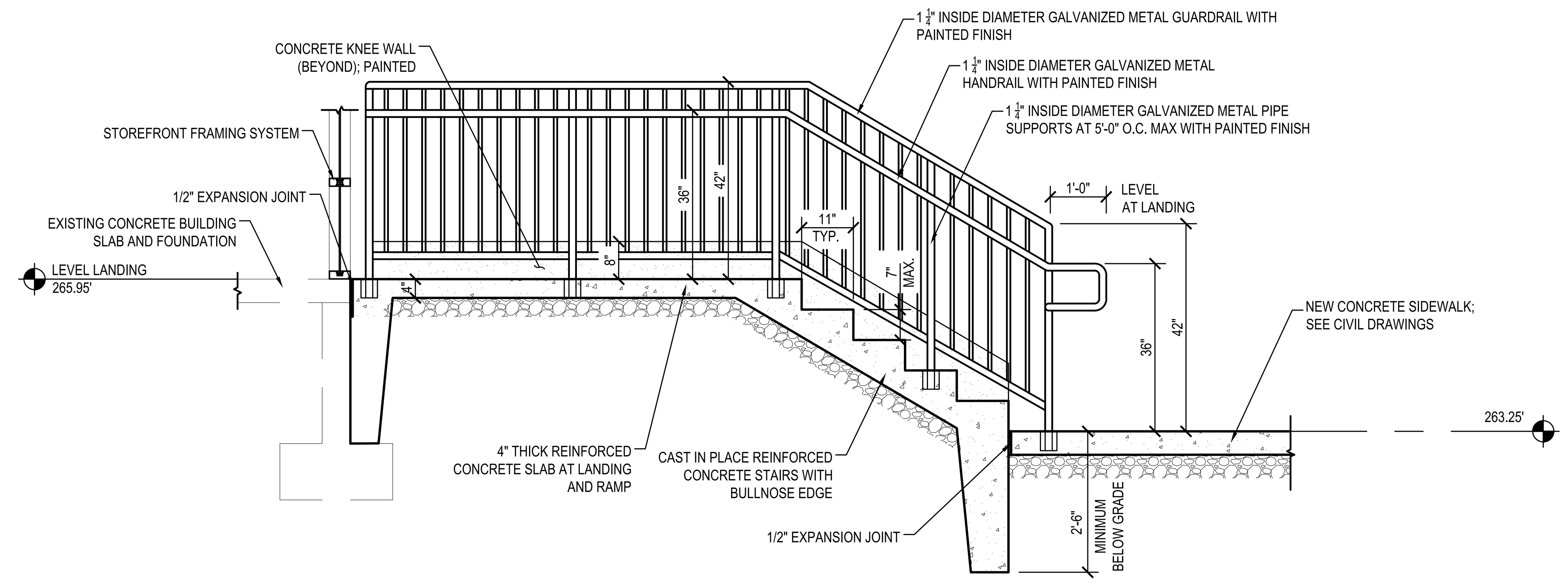
1

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



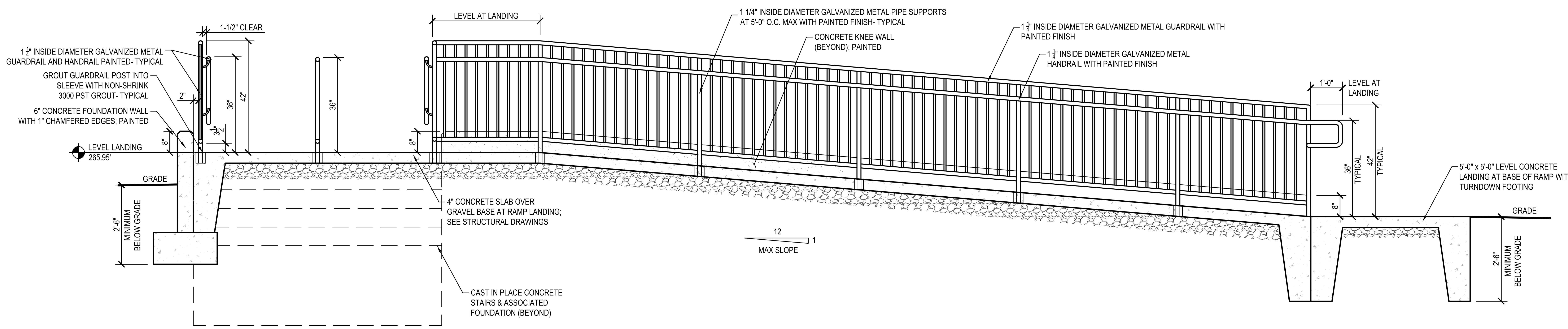
RAMP SECTION 'C'

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



RAMP SECTION 'D'

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



RAMP SECTION 'E'

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

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

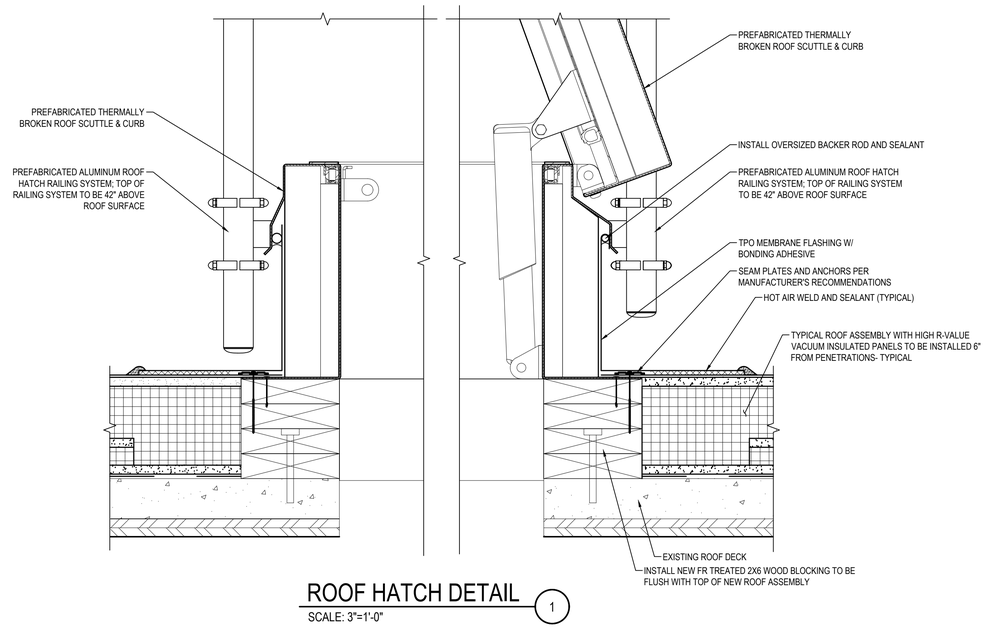
NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ENLARGED RAMP PLAN & DETAILS

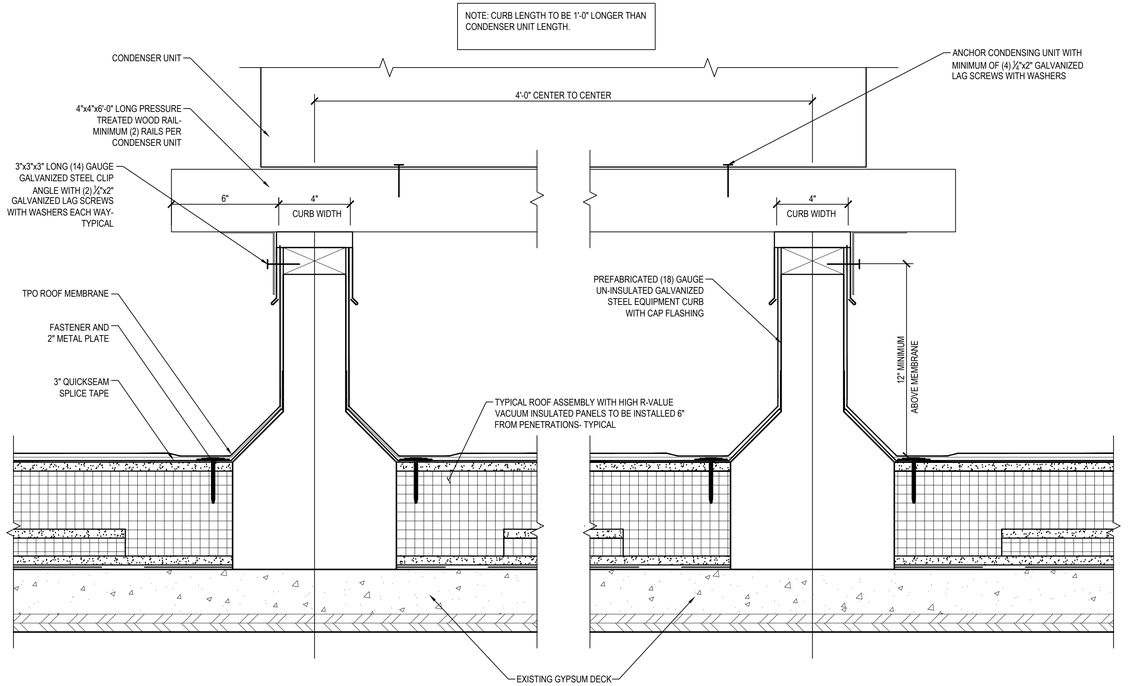
3/12/26

SHEET A402



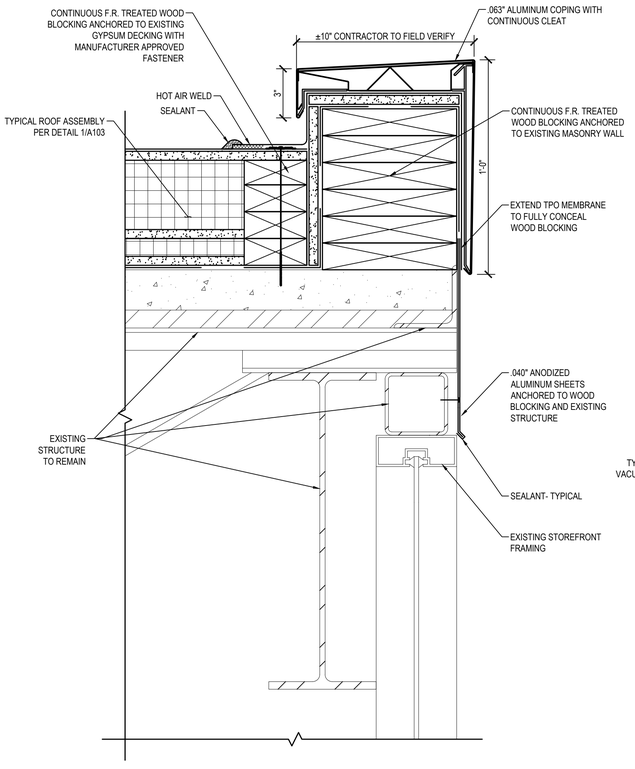
ROOF HATCH DETAIL 1

SCALE: 3"=1'-0"



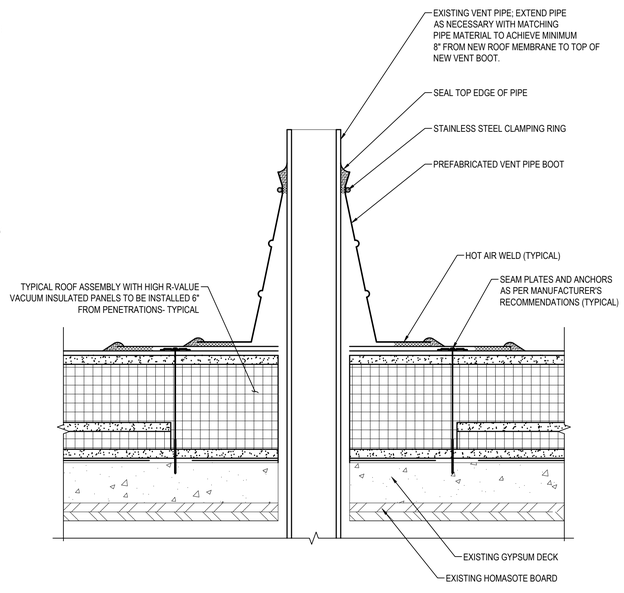
ROOF TOP UNIT DETAIL 2

SCALE: 3"=1'-0"



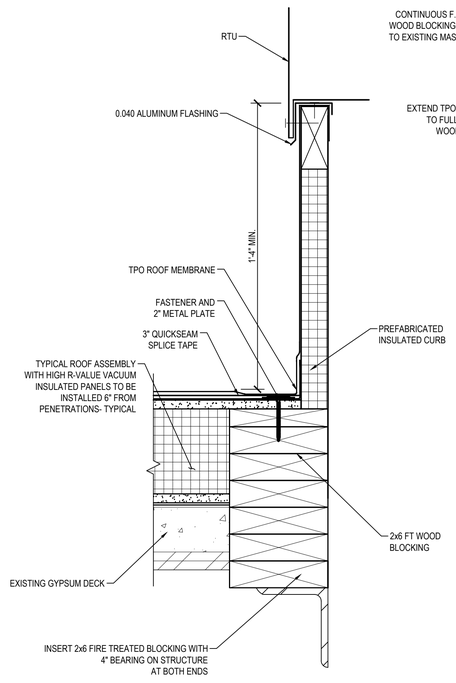
ROOF EDGE DETAIL @ STOREFRONT 3

SCALE: 3"=1'-0"



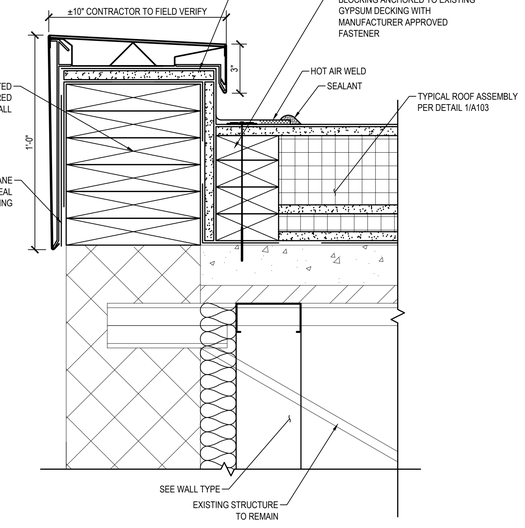
VENT PIPE DETAIL 4

SCALE: 3"=1'-0"



ROOF TOP UNIT CURB DETAIL 5

SCALE: 3"=1'-0"



ROOF EDGE DETAIL 6

SCALE: 3"=1'-0"

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

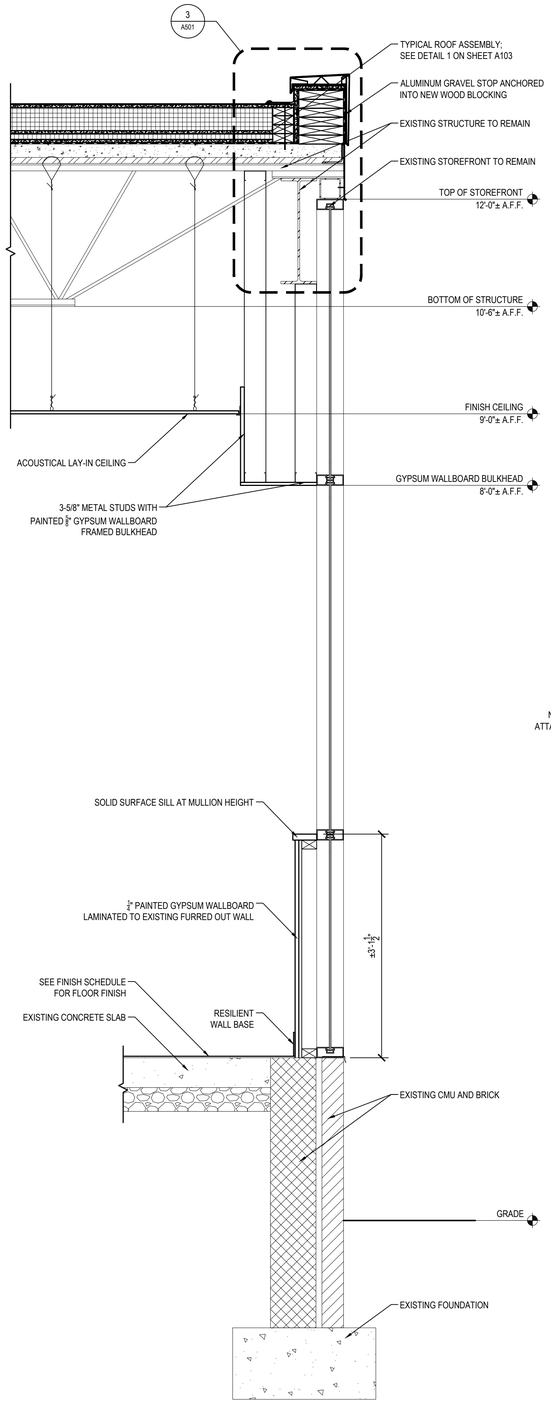
NO	DATE	DESCRIPTION

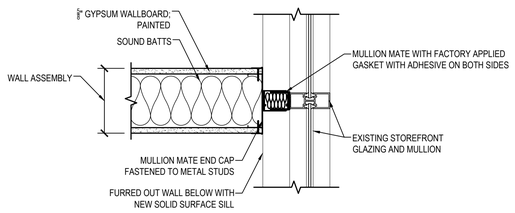
HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0000889

ROOF DETAILS

3/12/26

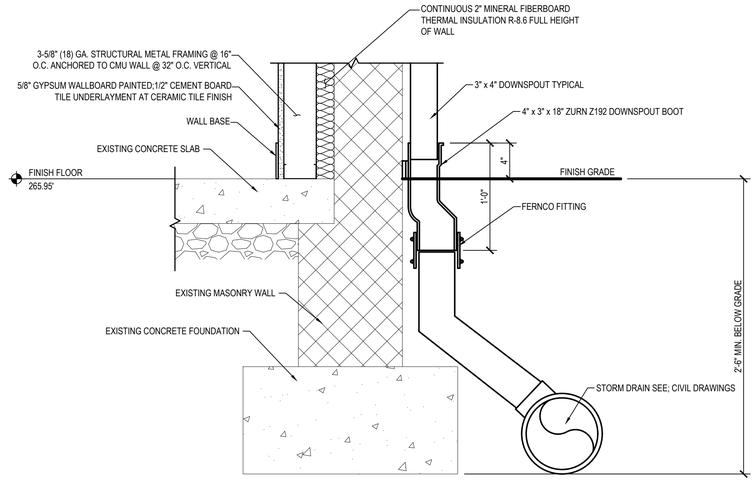
SHEET
A501





PARTITION CLOSURE DETAIL AT STOREFRONT (2)

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

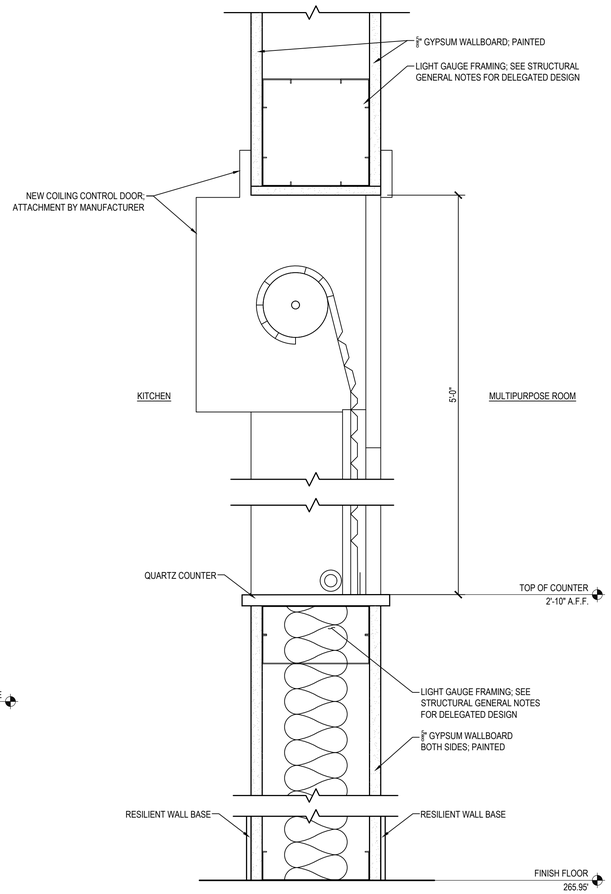


DOWNSPOUT BOOT DETAIL (4)

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

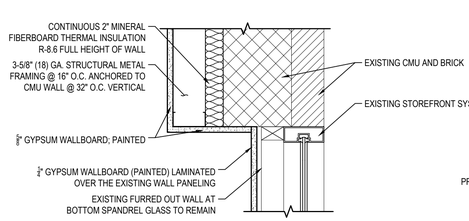
EXISTING STOREFRONT WALL SECTION (1)

SCALE: 1"=1'-0"



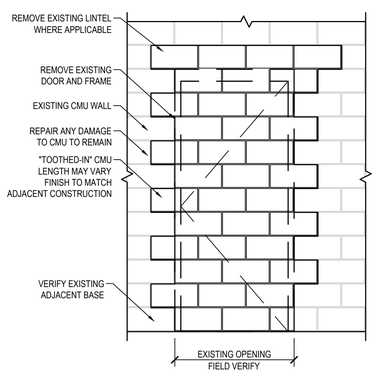
ROLLING SERVICE DOOR COUNTER (5)

SCALE: 3"=1'-0"



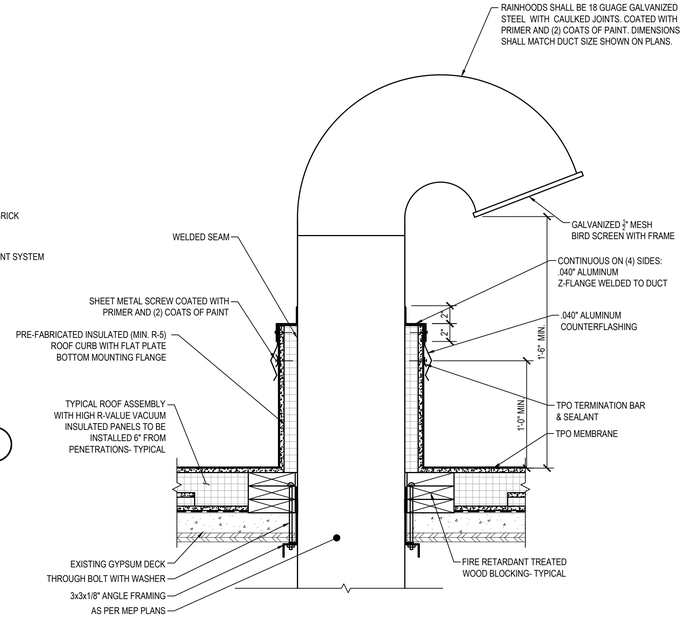
EXISTING STOREFRONT JAMB DETAIL (6)

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



INFILL @ EXISTING MASONRY OPENING DETAIL (7)

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



GOOSENECK DETAIL (8)

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CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0000889

DETAILS

3/12/26

SHEET A502

DOOR SCHEDULE

ROOM NAME & NUMBER	DOOR NO.	WIDTH	HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE	ADDITIONAL REMARKS
VESTIBULE 101 EXTERIOR	101	3'-0"	7'-0"	D1	FACTORY	SF-1	FACTORY	HW SET 1	
CORRIDOR 102	102	3'-0"	7'-0"	D1	FACTORY	SF-2	FACTORY	HW SET 3	
CONFERENCE / ARTS & CRAFTS 103	103A	3'-0"	7'-0"	D2	FACTORY	F8	PAINTED	HW SET 2	
CONFERENCE / ARTS & CRAFTS 103	103B	3'-0"	7'-0"	D5	FACTORY	F1	PAINTED	HW SET 2	
OPEN OFFICE 104	104	3'-0"	7'-0"	D2	FACTORY	F8	PAINTED	HW SET 8	
OFFICE 105	105	3'-0"	7'-0"	D4	FACTORY	F1	PAINTED	HW SET 2	
CONFERENCE ROOM 106	106A	3'-0"	7'-0"	D5	FACTORY	F1	PAINTED	HW SET 2	
CONFERENCE ROOM 106	106B	3'-0"	7'-0"	D5	FACTORY	F1	PAINTED	HW SET 2	
TV / PUZZLE / GAME 107	107	3'-0"	7'-0"	D2	FACTORY	F6	PAINTED	HW SET 2	
COMPUTER LAB 108	108	3'-0"	7'-0"	D2	FACTORY	F6	PAINTED	HW SET 2	
EXERCISE ROOM 109	109	3'-0"	7'-0"	D2	FACTORY	F7	PAINTED	HW SET 2	
---	110	---	---	---	---	---	---	---	NOT USED
WOMENS RESTROOM 111	111	3'-0"	7'-0"	D6	FACTORY	F1	PAINTED	HW SET 5	
MENS RESTROOM 112	112	3'-0"	7'-0"	D6	FACTORY	F1	PAINTED	HW SET 5	
STORAGE / MECH 113	113	3'-0"	7'-0"	D4*	FACTORY	F1*	PAINTED	HW SET 4	ONE HOUR RATED
IT ROOM 114	114	3'-0"	7'-0"	D4*	FACTORY	F1*	PAINTED	HW SET 4	ONE HOUR RATED
STORAGE 115	115	(2) 3'-0"	7'-0"	D4*	FACTORY	F2*	PAINTED	HW SET 7	ONE HOUR RATED
FOOD PANTRY 116	116	(2) 3'-0"	7'-0"	D6*	FACTORY	F1*	PAINTED	HW SET 7	ONE HOUR RATED
VESTIBULE 117	117A	3'-0" & 2'-0"	6'-7"	D3	FACTORY	F5	FACTORY	HW SET 10	VERIFY EXISTING M.O.
VESTIBULE 117 EXTERIOR	117B	3'-0" & 1'-11"	6'-8"	D3	FACTORY	F4	FACTORY	HW SET 9	VERIFY EXISTING M.O.
ADULT CHANGING RESTROOM 118	118	3'-0"	7'-0"	D6	FACTORY	F1	PAINTED	HW SET 6	
UTILITY ROOM 119	119	3'-0"	7'-0"	D6	FACTORY	F3	PAINTED	HW SET 4	
KITCHEN STORAGE 120	120	3'-0"	6'-7"	D6	FACTORY	F1	PAINTED	HW SET 4	VERIFY EXISTING M.O.
KITCHENETTE 121	121	3'-0"	7'-0"	D6	FACTORY	F1	PAINTED	HW SET 4	
KITCHENETTE 121 PASS THRU	121A	6'-0"	5'-0"	D7	FACTORY	---	FACTORY	---	COUNTER SERVICE DOOR
JANITORS CLOSET 122	122	3'-0"	7'-0"	D6	FACTORY	F1	PAINTED	HW SET 4	

HARDWARE SETS

HW SET 1
CONTINUOUS HINGE
SURFACE MOUNTED CLOSER - STOREFRONT
RIM EXIT DEVICE - NIGHT LATCH FUNCTION
FULL HEIGHT EXTERIOR PULL
ALUMINUM ADA THRESHOLD
WEATHERSTRIP SET HEAD, JAMB AND SWEEP
DOORBELL

HW SET 2
(3) HIGH FREQUENCY HINGES
FULL MORTISE CLASSROOM FUNCTION LEVER LOCKSET
WALL MOUNTED DOOR STOP
SILENCERS

HW SET 3
CONTINUOUS HINGE
SURFACE MOUNTED CLOSER
RIM EXIT DEVICE - NIGHT LATCH FUNCTION
FULL HEIGHT EXTERIOR PULL

HW SET 4
(3) HIGH FREQUENCY HINGES
FULL MORTISE STOREROOM FUNCTION LEVER LOCKSET
SURFACE MOUNTED CLOSER
WALL MOUNTED DOOR STOP
SILENCERS

HW SET 5
(3) HIGH FREQUENCY HINGES
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
PUSH / PULL SET
WALL MOUNTED DOOR STOP
SILENCERS

HW SET 6
(3) HIGH FREQUENCY HINGES
PRIVACY FUNCTION LEVER LOCKSET WITH
VACANCY/OCCUPIED INDICATOR
SURFACE MOUNTED CLOSER
SILENCERS

HW SET 7
ACTIVE LEAF:
(3) HIGH FREQUENCY 180-DEGREE HINGES
FULL MORTISE STOREROOM FUNCTION LEVER LOCKSET
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
SECURITY ASTRAGAL
SILENCERS

INACTIVE LEAF:
(3) HIGH FREQUENCY 180-DEGREE HINGES
SURFACE MOUNTED SLIDE BOLTS TOP & BOTTOM (INTERIOR)
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
SOFFIT MOUNTED DOOR COORDINATOR
SILENCERS

HW SET 8
(3) HIGH FREQUENCY HINGES
FULL MORTISE OFFICE FUNCTION LEVER LOCKSET
WALL MOUNTED DOOR STOP
SILENCERS

HW SET 9
PRIMARY LEAF:
CONTINUOUS HINGE
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
RIM EXIT DEVICE WITH EXTERIOR LEVER NIGHT LATCH FUNCTION
FULL HEIGHT EXTERIOR PULL
ALUMINUM ADA THRESHOLD
WEATHERSTRIP SET HEAD, JAMB AND SWEEP

SECONDARY LEAF:
CONTINUOUS HINGE
SURFACE MOUNTED SLIDE BOLTS TOP & BOTTOM (INTERIOR)
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
ALUMINUM ADA THRESHOLD
WEATHERSTRIP SET HEAD, JAMB AND SWEEP

HW SET 10
PRIMARY LEAF:
CONTINUOUS HINGE
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION
RIM EXIT DEVICE WITH EXTERIOR LEVER NIGHT LATCH FUNCTION
FULL HEIGHT EXTERIOR PULL

SECONDARY LEAF:
CONTINUOUS HINGE
SURFACE MOUNTED SLIDE BOLTS TOP & BOTTOM (INTERIOR)
SURFACE MOUNTED CLOSER WITH HOLD OPEN FUNCTION

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	KEYED NOTES
101	VESTIBULE	WALK OFF CARPET TILE	RESILIENT	GYPSUM WALLBOARD - PAINTED / GLASS STOREFRONT	ACOUSTICAL LAY-IN	
102	CORRIDOR	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED / GLASS STOREFRONT	ACOUSTICAL LAY-IN	2
103	CONFERENCE ROOM / ARTS AND CRAFTS	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
104	OPEN OFFICE	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
105	OFFICE	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
106	CONFERENCE ROOM	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
107	TV / PUZZLE / GAME	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
108	COMPUTER LAB	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
109	EXERCISE ROOM	RUBBER ATHLETIC	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
110	MULTIPURPOSE	LVP	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	2
111	WOMENS RESTROOM	RESINOUS	RESINOUS	CERAMIC TILE & GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	1
112	MENS RESTROOM	RESINOUS	RESINOUS	CERAMIC TILE & GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	1
113	STORAGE/MECH	VCT	RESILIENT	GYPSUM WALLBOARD - PAINTED	EXPOSED STRUCTURE	
114	IT ROOM	SDT	RESILIENT	3/4" FIRE RATED PLYWOOD	ACOUSTICAL LAY-IN	
115	STORAGE	VCT	RESILIENT	GYPSUM WALLBOARD - PAINTED	EXPOSED STRUCTURE	
116	FOOD PANTRY	VCT	RESILIENT	GYPSUM WALLBOARD - PAINTED	EXPOSED STRUCTURE	
117	VESTIBULE	WALK OFF CARPET TILE	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
118	ADULT CHANGING RESTROOM	RESINOUS	RESINOUS	CERAMIC TILE	ACOUSTICAL LAY-IN	1
119	UTILITY ROOM	SEALED CONCRETE	RESILIENT	CMU & GYPSUM WALLBOARD - PAINTED	EXPOSED STRUCTURE	
120	KITCHEN STORAGE	RESILIENT SHEET	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	
121	KITCHENETTE	RESILIENT SHEET	RESILIENT	GYPSUM WALLBOARD - PAINTED	ACOUSTICAL LAY-IN	1
122	JANITORS CLOSET	RESILIENT SHEET	RESILIENT	FRP- FULL HEIGHT	ACOUSTICAL LAY-IN	1, 3

NOTE:
CONTRACTOR TO SCRAPE EXISTING CONCRETE SUB FLOOR AND APPLY CEMENTITIOUS SELF-LEVELING COMPOUND TO ACHIEVE SUITABLE SUBSTRATE FOR INSTALLATION OF NEW FLOORING FINISHES.

NOTE:
CONTRACTOR TO PROVIDE AND INSTALL 48" TALL STAINLESS STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS OF WALLS FINISHED WITH GYPSUM WALLBOARD.

FINISH SCHEDULE KEYED NOTES:

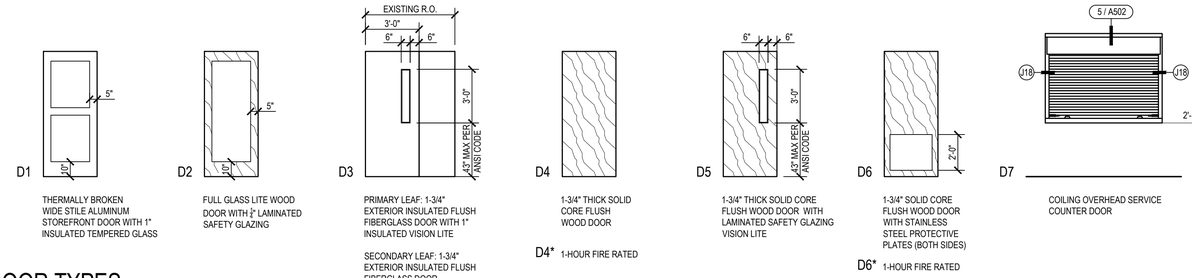
1. PROVIDE 5/8" WATER & MOLD RESISTANT GWB
2. PROVIDE STAINED WOOD PERIMETER CHAIR RAIL
3. PROVIDE STAINLESS STEEL BACKSPLASH AT WALLS BEHIND MOP SINK

INTERIOR FINISHES FOR WALLS AND CEILINGS SHALL MEET:
- CLASS B WITH A FLAME SPREAD RATE OF 75 OR LESS
- ASTM E84 AND IBC 2021 TABLE 803.13

ALL FLOOR FINISHES SHALL MEET:
- DOC FF-1 AND NFPA
- CLASS II REQUIREMENTS AND SECTION 804 OF IBC

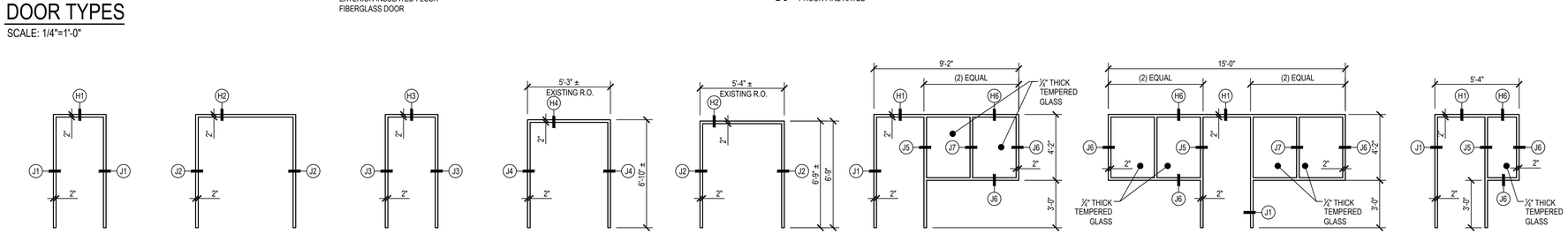
DOOR TYPES

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



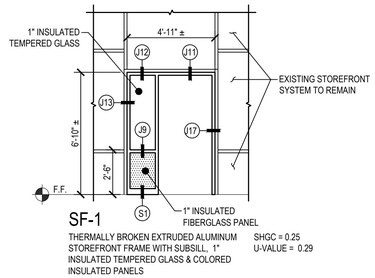
FRAME TYPES

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



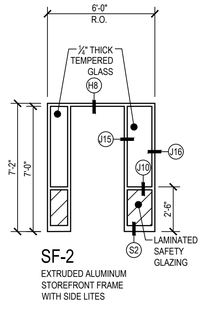
EXTERIOR STOREFRONT FRAME TYPES

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



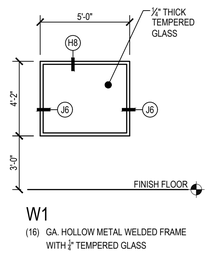
INTERIOR STOREFRONT FRAME TYPE

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



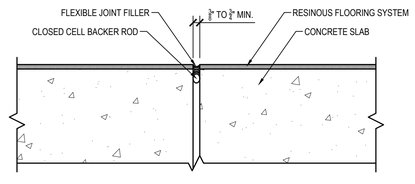
INTERIOR HOLLOW METAL FRAME TYPE

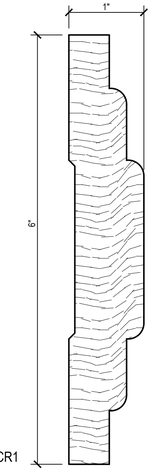
SCALE: 1/4"=1'-0"



RESINOUS FLOOR ISOLATION JOINT DETAIL (1)

SCALE: 3"=1'-0"





CHAIR RAIL PROFILE (2)

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

RRMM ARCHITECTS, PC
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227
(410) 234-8444

"PROFESSIONAL CERTIFICATION.
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 21386, EXPIRATION DATE 01/11/2027."

CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

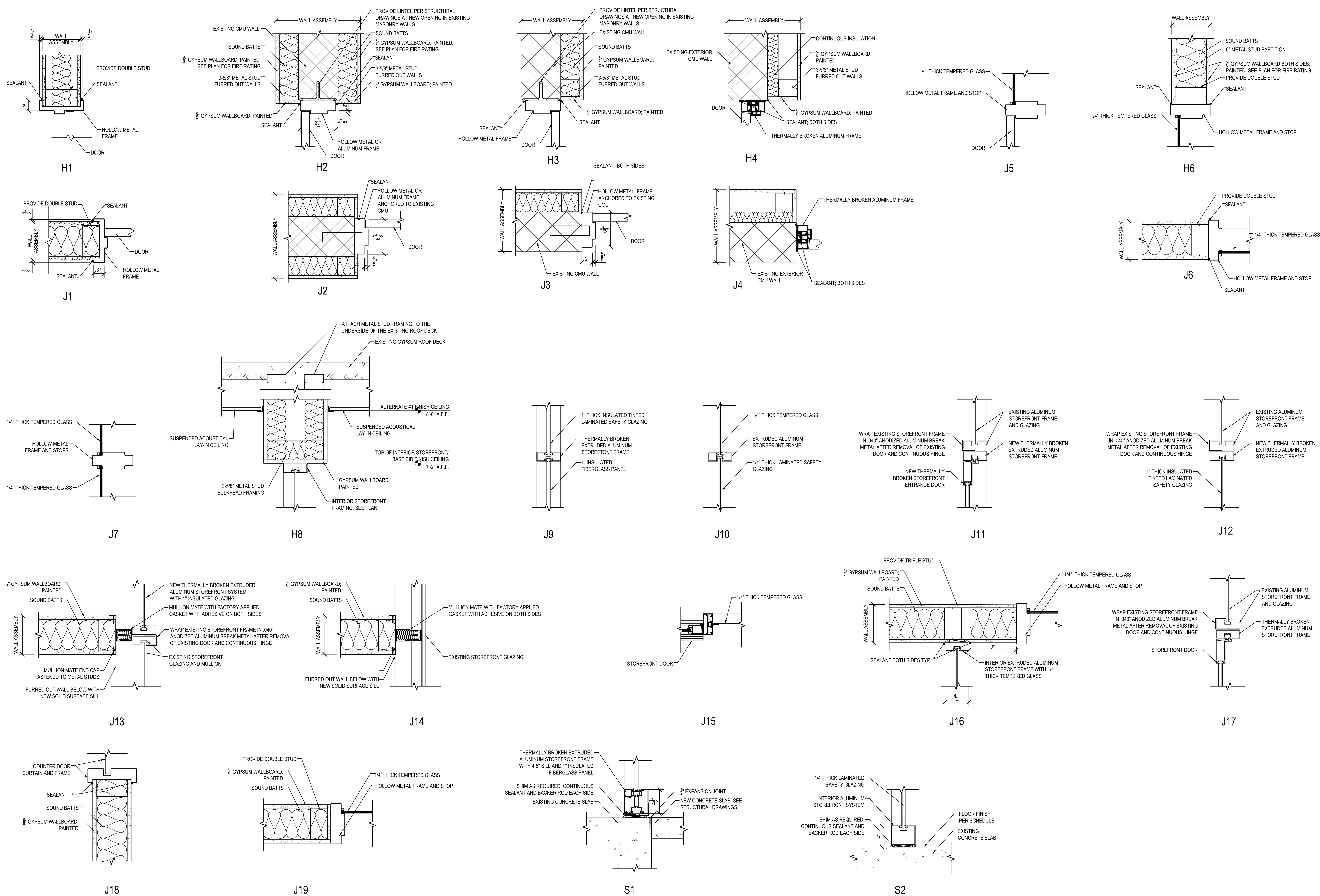
NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0000889

DOOR & FINISH SCHEDULES

3/12/26

SHEET A601



JAMB, HEAD & SILL DETAILS

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

RRMM®
ARCHITECTS, PC
3700 Koppers Street, Suite 300
Baltimore, Maryland 21227
(410) 234-8444

"PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 21386, EXPIRATION DATE 01/11/2027."

CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

HEAD, JAMB, & SILL DETAILS

3/12/26

SHEET
A602

DESIGN CRITERIA:

1. DEAD, LIVE, SNOW, WIND, AND SEISMIC DESIGN LOADS ARE IN ACCORDANCE WITH THE BALTIMORE COUNTY BUILDING CODE WHICH INCORPORATES THE INTERNATIONAL BUILDING CODE – IBC 2021.
2. DESIGN DEAD LOADS HAVE BEEN ACCOUNTED FOR BASED UPON THE ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION INCORPORATED INTO THE BUILDING, INCLUDING BUT NOT LIMITED TO FLOORS, ROOFS, WALLS, CEILINGS, FINISHES, CLADDING, AND OTHER SIMILARLY INCORPORATED ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS. SEE THE APPROPRIATE DISCIPLINES PLANS AND SECTIONS FOR ADDITIONAL INFORMATION. DESIGN LIVE LOADS ARE AS FOLLOWS:

AREA	LIVE LOAD
SLAB–ON–GRADE	100 PSF
ROOFS	30 PSF

3. SNOW LOADING IS BASED ON THE FOLLOWING, INCLUDING PROVISIONS FOR DRIFTING SNOW:

GROUND SNOW LOAD	30 PSF
FLAT–ROOF SNOW LOAD	21 PSF
RISK CATEGORY	II
SURFACE ROUGHNESS CATEGORY	B
EXPOSURE CATEGORY	B
EXPOSURE FACTOR	1.00
IMPORTANCE FACTOR	1.00
THERMAL FACTOR	1.00

4. WIND LOADING IS BASED ON THE FOLLOWING:

ULTIMATE DESIGN WIND SPEED	115 MPH
NOMINAL DESIGN WIND SPEED	90 MPH
RISK CATEGORY	II
SURFACE ROUGHNESS CATEGORY	B
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/–0.18
TOPOGRAPHIC FACTOR	1.00
DIRECTIONALITY FACTOR	0.85

COMPONENTS & CLADDING ULTIMATE DESIGN PRESSURES, (10 SQ FT TRIBUTARY AREA):

ROOF ZONE 1: +16/–38 PSF, WALL ZONE 4: +37/–37 PSF
ROOF ZONE 2: +16/–63 PSF, WALL ZONE 5: +37/–46 PSF
ROOF ZONE 3: +16/–95 PSF

[IT IS THE RESPONSIBILITY OF THE COMPONENT & CLADDING ENGINEER TO CALCULATE WIND LOADS FOR COMPONENTS AND CLADDING BASED ON EACH COMPONENT'S TRIBUTARY AREA AND LOCATION ON THE BUILDING.]

5. LATERAL EARTH PRESSURES ON RETAINING WALLS ARE BASED ON THE FOLLOWING:

EQUIVALENT AT–REST FLUID PRESSURE	60 PCF
EQUIVALENT ACTIVE FLUID PRESSURE	40 PCF
EQUIVALENT PASSIVE FLUID PRESSURE	360 PCF
LATERAL AT–REST EARTH PRESSURE COEFFICIENT, Ko	0.50
LATERAL ACTIVE EARTH PRESSURE COEFFICIENT, Ka	0.33
LATERAL PASSIVE EARTH PRESSURE COEFFICIENT, Kp	3.00
COEFFICIENT OF SLIDING FRICTION (CONC./SOIL)	0.35

6. SLABS–ON–GRADE HAVE BEEN DESIGNED USING A MODULUS OF SUBGRADE REACTION (k) OF 100 PCI.
7. DESIGN REACTIONS AND SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE MANUFACTURER INFORMATION. SUPPORT CONDITIONS MAY NEED TO BE REVISED BASED UPON ACTUAL SUPPLIED EQUIPMENT AND SUPPORT DETAILS. ANY MECHANICAL EQUIPMENT NOT SHOWN ON THE STRUCTURAL DRAWINGS AND HAVING A WEIGHT IN EXCESS OF 500 POUNDS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
8. CONSTRUCTION LOADS IMPOSED BY EQUIPMENT OR OTHER CONSTRUCTION ACTIVITY THAT EXCEED THE DESIGN LIVE LOAD SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
9. ALL MASONRY VENEER SHALL BE CONNECTED TO THE STRUCTURE WITH TIES AT A MAXIMUM SPACING OF 24" o/c HORIZONTALLY, AND 16" o/c VERTICALLY UNLESS OTHERWISE INDICATED. ALL VENEER ANCHORS SHALL BE SELECTED BASED ON ABOVE STATED LATERAL DESIGN CRITERIA AND ARCHITECTURAL REQUIREMENTS.

SUBMITTALS:

1. BEFORE SUBMISSION OF SHOP DRAWINGS, THE CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED ALL QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA AND SHALL HAVE COORDINATED EACH SHOP DRAWING WITH OTHER SHOP DRAWINGS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. PRIOR TO SUBMISSIONS, THE CONTRACTOR SHALL STAMP OR PROVIDE A SIMILAR WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED THE SUBMISSION AND IS SATISFIED THE CONTENTS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
3. REPRINTS OF THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.
4. NO DIMENSIONAL INFORMATION MAY BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
5. ELECTRONIC OR ADEQUATE NUMBER OF PAPER SETS SHALL BE SUBMITTED SO THAT THE ARCHITECT/ENGINEER CAN MAINTAIN ONE RECORD SET AT ALL TIMES.
6. ALL SUBMITTALS USED FOR CONSTRUCTION SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER AND SHALL BE MARKED "APPROVED" OR "APPROVED AS NOTED".

EXISTING CONSTRUCTION:

1. ALL MEMBER SIZES, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE MEMBER SIZES, DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.
2. FOR ADDITIONAL INFORMATION ON THE EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REFER TO DRAWINGS OF THE EXISTING STRUCTURES AND PROVIDE ADDITIONAL EXISTING BUILDING SURVEYS AS NECESSARY.
3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING AS REQUIRED TO SUPPORT THE EXISTING STRUCTURES. THE CONTRACTOR SHALL EXAMINE THE EXISTING STRUCTURES TO DETERMINE THE EXTENT OF TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING NECESSARY. THE CAPACITY AND METHOD USED FOR THE TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DEMOLITION NOTES:

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE PLANS, SECTIONS, AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ARCHITECT/STRUCTURAL ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDING DURING THE COURSE OF CONSTRUCTION AND IMMEDIATELY ADVISE THE ARCHITECT/ENGINEER OF ANY AREAS WHERE THE STRUCTURE EXHIBITS DISTRESS OR FAILURE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY EXISTING SYSTEMS IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH SYSTEMS OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

FOUNDATIONS:

1. ALL SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR CONTROLLED STRUCTURAL FILL, HAVING A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. ALL SPREAD FOOTINGS SHALL PROJECT AT LEAST 1'–0" INTO SOIL HAVING SUCH MINIMUM BEARING VALUE.
2. RETAIN THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER, APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER, TO VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE REDESIGN OR LOWERING OF FOOTINGS.
3. EXCAVATION, SUBGRADE PREPARATION, AND FOOTING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
4. ALL SUBGRADE PREPARATION, FILL, AND BACKFILL OPERATIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
5. ALL ORGANIC MATERIALS, UNSUITABLE FILL, AND CONSTRUCTION DEBRIS SHALL BE REMOVED IN REGIONS OF ALL FOUNDATIONS.
6. THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 2'–6" MINIMUM BELOW FINISHED GRADE.
7. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
8. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS, AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
9. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
10. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE AND/OR MASONRY GROUT HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILLING AGAINST BASEMENT WALLS SHALL NOT BE DONE UNTIL THE FLOOR SLABS AT TOP AND BOTTOM OF WALLS HAVE BEEN PLACED AND HAVE CURED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'–6" FROM OTHER SIDE.
12. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.

FOUNDATION CONCRETE:

1. ALL CONCRETE SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318–LATEST EDITION) AND ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS, (ACI 301–LATEST EDITION).
2. ALL FOUNDATION CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

STRUCTURAL ELEMENT	f'c@28 DAYS	DRY WEIGHT	MAX W/C	AGGREGATE SIZE	AIR CONTENT
A. SLAB–ON–GRADE	3,500 PSI	150 PCF	0.50	3/8" TO 1"	NA
B. FOOTINGS	3,500 PSI	150 PCF	0.50	3/8" TO 1"	4.5% +/–1.5%
C. WALLS & PILASTERS	4,000 PSI	150 PCF	0.45	3/8" TO 1"	6% +/–1.5%
D. PIERS	4,000 PSI	150 PCF	0.50	3/8" TO 1"	4.5% +/–1.5%

3. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN REVIEWED BY THE ARCHITECT/ENGINEER.
4. USE A WATER REDUCING ADMIXTURE IN ALL CONCRETE.
5. SLUMP AND MINIMUM CEMENTITIOUS MATERIALS CONTENT SHALL BE AS REQUIRED BY ACI 301–LATEST EDITION.
6. NO CALCIUM CHLORIDE IN ANY FORM WILL BE PERMITTED IN CONCRETE.
7. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION.
8. EXCAVATIONS SHALL BE KEPT FREE OF WATER. NO CONCRETE SHALL BE PLACED IN WATER.
9. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN OR AS REQUIRED BY VARIOUS TRADES.
10. RETAIN THE SERVICES OF AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER TO PERFORM TESTS OF CONCRETE FOR VERIFICATION OF MIX DESIGNS PER THE REQUIREMENTS OF ACI LATEST EDITION. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTING AT THE TIME OF EACH SAMPLING.
11. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH ACI 318 LATEST EDITION:
    A. AT LEAST ONE SAMPLE PER DAY
    B. AT LEAST ONE SAMPLE FOR EACH 150 YD^3
    C. AT LEAST ONE SAMPLE FOR EACH 5000 FT^2 OF SURFACE AREA FOR SLABS OR WALLS,
16. A MINIMUM OF (1) SET OF (3) 4x8 CYLINDER TESTS AT 28 DAYS IS REQUIRED FOR ACCEPTANCE OF EACH SAMPLE AS DESCRIBED IN NOTE 15. NO MORE THAN (1) CYLINDER PER TEST MAY BE LESS THEN 500 PSI UNDER STRENGTH.

REINFORCEMENT:

1. ALL DEVELOPMENT AND SPLICES OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318–LATEST EDITION). ALL REINFORCEMENT SPLICES SHALL BE TENSION LAP SPLICES, (TSL), UNLESS OTHERWISE NOTED.
2. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. WELDABLE DEFORMED BARS SHALL CONFORM TO ASTM A706. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
3. WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A1064 AND BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNO.
4. REINFORCING BAR SUPPORTS AND SPACERS SHALL CONFORM TO (ACI 315–LATEST EDITION) DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
5. MINIMUM REBAR COVER FOR CONCRETE SHALL BE AS SHOWN IN THE FOLLOWING TABLE, UNO:

EXPOSURE CONDITION	CONCRETE COVER	TOLERANCE (+/–)
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
B. EXPOSED TO EARTH OR WEATHER		
#5 AND SMALLER BARS AND WWF	1–1/2"	3/8"
#6 AND LARGER BARS	2"	3/8"
C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, & JOISTS	3/4"	1/4"
BEAMS & COLUMNS (PRIMARY REBAR, TIES, STIRRUPS, & SPIRALS)	1–1/2"	3/8"

6. ALL OTHER REINFORCEMENT TOLERANCES SHALL CONFORM TO THE PROVISIONS OF ACI STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, (ACI 117–LATEST EDITION).
7. SHEAR STUD RAIL ASSEMBLIES SHALL CONSIST OF HEADED STUDS WELDED TO A STEEL BASE RAIL IN ACCORDANCE WITH ACI 421.1R AND ASTM A1044. SHEAR STUD RAIL ASSEMBLIES SHALL BE OF SIZE, SPACING, AND ARRANGEMENT SHOWN ON THE DRAWINGS. SHEAR STUDS SHALL BE STUD WELDED TO THE RAILS IN COMPLIANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.1 STRUCTURAL WELDING CODE.
8. SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND NECESSARY SECTIONS AND DETAILS FOR THE PROPER POSITIONING SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT BEFORE FABRICATION OR PLACEMENT OF THE STEEL.

LIGHT GAUGE STEEL FRAMING (STRUCTURAL FRAMING DELEGATED DESIGN):

1. LIGHT GAUGE STEEL FRAMING SHALL CONFORM TO THE AISI (AMERICAN IRON AND STEEL INSTITUTE) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS AND CODE OF STANDARD PRACTICE FOR COLD–FORMED STEEL STRUCTURAL FRAMING.
2. SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW, PRIOR TO FABRICATION, COMPLETE DELEGATED DESIGN INCLUDING CALCULATIONS AND SHOP DRAWINGS OF ALL LIGHT GAUGE FRAMING ELEMENTS. SHOP DRAWINGS SHALL INCLUDE COMPLETE SECTION PROPERTIES OF MEMBERS, CONNECTION DETAILS, BRIDGING SIZE, TYPE, LOCATION, AND ERECTION PLANS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
3. LIGHT GAUGE ELEMENTS SHALL BE DESIGNED SUCH THAT THE MAXIMUM DEFLECTION UNDER FULL SERVICE LOAD DOES NOT EXCEED L/600 FOR ELEMENTS SUPPORTING MASONRY, AND L/360 IN ALL OTHER AREAS.
4. ALL LIGHT GAUGE FRAMING SHALL BE STRUCTURAL GRADE AT A MINIMUM OF 20 GAUGE WITH MAXIMUM SPACING OF 16"o/c, UNO, AND SHALL BE GALVANIZED TO A MINIMUM OF A G60 FINISH. WHERE LATERALLY SUPPORTING MASONRY VENEER, LIGHT GAUGE FRAMING SHALL BE 18 GAUGE MINIMUM.
5. LIGHT GAUGE FRAMING INSTALLATION SHALL BE INSPECTED IN THE FIELD BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER.

METAL FABRICATIONS (DELEGATED DESIGN):

1. CONTRACTOR SHALL DESIGN AND INCORPORATE ALL METAL COMPONENTS INDICATED TO SUPPORT THE FOLLOWING DESIGN LIVE LOADS:

STAIRS:
100 PSF UNIFORM OR 300 LBS CONCENTRATED LOAD AT CENTER TREAD OR AT ANY POINT ON LANDING.

HANDRAIL & GUARDRAIL SYSTEMS:
50 PLF OR 200 LB CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT AND IN ANY DIRECTION ON THE HANDRAIL OR TOP RAIL. A 50 LB CONCENTRATED HORIZONTAL LOAD APPLIED ON A ONE SF AREA AT ANY POINT FOR REMAINING INFILL COMPONENTS.

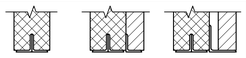
LADDERS:
DESIGN AND INCORPORATE ALL COMPONENTS OF LADDER FRAMING INCLUDING RAILS, CONNECTIONS, RUNGS TO SUPPORT LOADS AS REQUIRED BY OSHA 1926 LATEST EDITION.

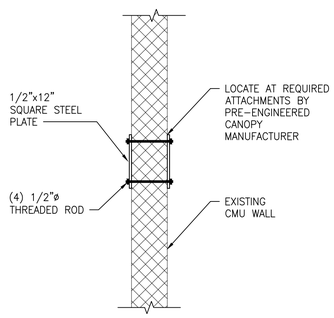
LADDERS EXCEEDING 24 FEET IN CLIMB HEIGHT:
LADDERS SHALL BE EQUIPPED WITH A FALL ARREST SAFETY SYSTEM ACCORDING TO THE REQUIREMENTS OF OSHA 1926 LATEST EDITION. FALL ARRESTS SYSTEMS AND THE SUPPORTING LADDER SHALL BE CAPABLE OF SUPPORTING A 3000 LB IMPACT LOAD.

PRE–ENGINEERED CANOPIES
SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW, PRIOR TO FABRICATION, COMPLETE DELEGATED DESIGN INCLUDING CALCULATIONS AND SHOP DRAWINGS OF PRE–FAB CANOPY AND CONNECTION TO SUPPORTING STRUCTURE. SHOP DRAWINGS SHALL INCLUDE COMPLETE SECTION PROPERTIES OF MEMBERS, CONNECTION DETAILS, TYPE, LOCATION, AND ERECTION PLANS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

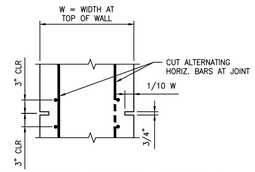
2. SUBMIT COMPLETE SHOP DRAWINGS, ERECTION DRAWINGS, AND DESIGN CALCULATIONS FOR REVIEW PRIOR TO FABRICATION OR ERECTION OF ALL COMPONENTS INDICATED. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTORS ENGINEER.
3. WHERE STEEL BEARS ON CONCRETE MASONRY WALL, STAIR SUPPLIER SHALL PROVIDE BEARING PLATES THAT DO NOT EXCEED 200 PSI BEARING PRESSURE.
4. PROVIDE HANGERS, CLIP ANGLES, ETC. AS REQUIRED FOR SUSPENSION OF STAIR FRAMING FROM STRUCTURAL FRAME.

LINTEL SCHEDULE

MARK	SIZE	COMMENTS	DETAILS
L–1	L4 X 3 1/2 X 5/16 LLV FOR EACH 4" OF WALL THICKNESS. UP TO 6'–0" OPENINGS	FOR CAVITY WALLS, USE (1) L6 X 6 X 5/16 LLV FOR VENEER.	
L–2	L6 X 3 1/2 X 5/16 LLV FOR EACH 4" OF WALL THICKNESS. 6'–1" TO 8'–0" OPENINGS	FOR CAVITY WALLS, USE (1) L6 X 6 X 5/16 LLV FOR VENEER.	
L–3	(1) 4 X 8 PRECAST LINTEL WITH (1) #4 BAR FOR EACH 4" OF WALL THICKNESS. UP TO 2'–8" OPENINGS.	FOR CAVITY WALLS, USE (1) L6 X 6 X 5/16 LLV FOR VENEER.	
L–4	(1) 4 X 8 PRECAST LINTEL WITH (1) #3 TOP & (1) #4 BOTTOM BAR FOR EACH 4" OF WALL THICKNESS. 2'–9" TO 6'–8" OPENINGS.	FOR CAVITY WALLS, USE (1) L6 X 6 X 5/16 LLV FOR VENEER.	
L–5	LIGHT GAUGE STEEL BOX STUD LINTEL AND JAMBS TO BE DESIGNER BY LIGHT GAUGER MANUFACTURER, SEE GENERAL NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.	COORDINATE LIGHT GAUGE SUPPORTS WITH OVERHEAD ROLLING DOORS REQUIREMENTS, SEE ARCH.	



TYPICAL CANOPY ATTACHMENT AT CMU (A / S001)
SCALE: NOT TO SCALE



CONCRETE WALL CONTROL JOINT (B / S001)

NOTES:
1. PROVIDE CONTROL JOINTS AT LOCATIONS SHOWN ON ARCHITECTURAL DRAWING. WHEN NOT SHOWN PROVIDE JOINTS AT MAXIMUM SPACING OF 30'–0" o/c OR 2X WALL HEIGHT, WHICHEVER IS SMALLER
2. JOINTS SHALL BE LOCATE 4'–0" MINIMUM FROM CORNERS, OPENINGS PILASTERS AND COLUMN OR BEAM BEARING, UNO..

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DEPARTMENT OF GENERAL SERVICES
CAPITAL PROJECTS DIVISION

CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423 PHONE

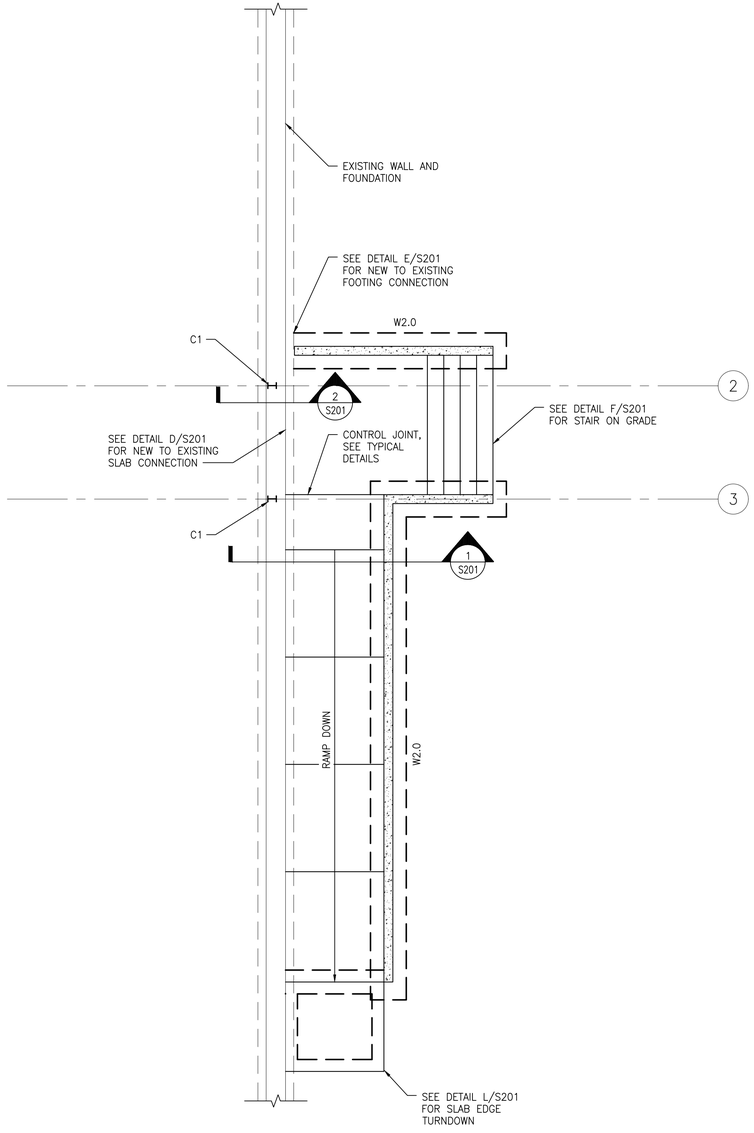
NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

NOTES, SCHEDULES AND DETAILS

3/12/26

SHEET S001

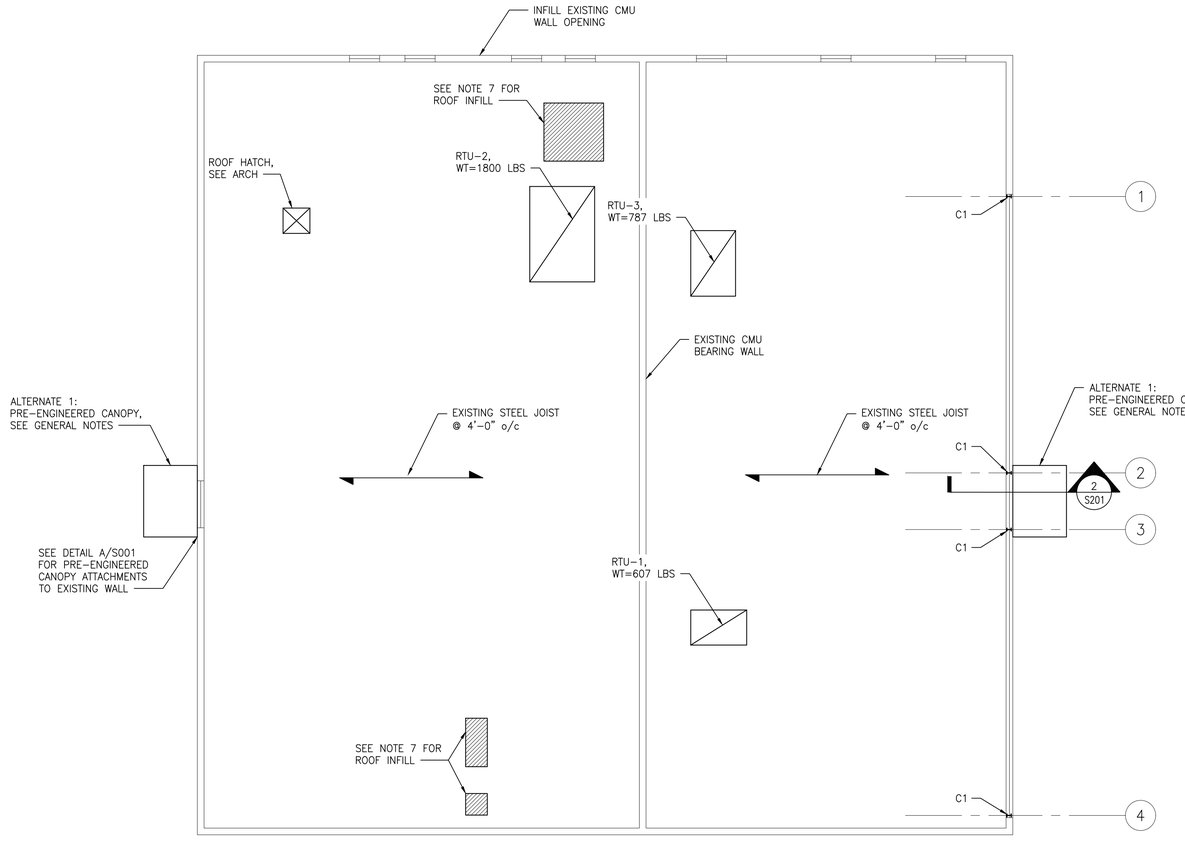


FOUNDATION PARTIAL PLAN

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

FOUNDATION PLAN NOTES:

1. SLAB ON GRADE SHALL CONSIST OF 4" CONCRETE SLAB REINFORCED W/ 6"x6"-W2.1xW2.1 WWF OVER 15 MIL VAPOR RETARDER AND 6" MINIMUM COMPACTED STONE BASE.
2. TOP OF NEW SLAB-ON-GRADE ELEVATION = 265.95 U.N.O. AND IS THE REFERENCE DATUM (0'-0") FOR THIS PROJECT
3. WALL FOOTING SIZES SHOWN THUS: WX.0, CONTINUOUS WALL FOOTINGS SHOWN THUS WX.X, SEE SCHEDULE. TOP OF EXTERIOR FOOTINGS SHALL BE AT -4'-0" U.N.O.
4. CONCRETE SITE WALLS SHALL BE 6" THICK W/ #4 @12" o/c EW.
5. SLAB-ON-GRADE CONTROL JOINTS SHALL BE SAWCUT AFTER CONCRETE HAS TAKEN INITIAL SET AND BEFORE CONCRETE SHRINKAGE STRESSES OCCUR.
6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLAB EDGES, OPENINGS, PENETRATIONS, SLOPES, RAISED OR DEPRESSED AREAS, CURBS, ETC., WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, UNO.
7. THE CONTRACTOR SHALL COORDINATE ALL UNDERSLAB UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. LOWER OR STEP TOP OF FOOTING ELEVATIONS AS REQUIRED TO MAINTAIN 2H:1V SLOPE FROM BOTTOM OF FOOTINGS TO BOTTOM OF UTILITY EXCAVATIONS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
8. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
9. DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING COLUMN LINES AND ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND CONSTRUCTION.
10. COLUMN SIZES SHOWN THUS: CX. SEE SCHEDULE FOR SIZE AND BASEPLATE INFORMATION.



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OPENINGS, PENETRATIONS, MECHANICAL UNITS, DUCTWORK, CONDUITS, LINTELS, ETC. WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
2. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
3. DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING COLUMN LINES AND ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. COLUMN SIZES SHOWN THUS: CX. SEE SCHEDULE FOR SIZE AND BASEPLATE INFORMATION.
5. SEE LINTEL SCHEDULE ON S-001 FOR CMU OPENINGS NOT SHOWN ON PLAN.
6. SEE L-5 ON LINTEL SCHEDULE FOR INTERIOR LIGHT GAUGE FRAMING AT OVERHEAD ROLLING DOORS, SEE ARCH FOR MORE INFORMATION.
7. INFILL EXISTING OPENINGS WITH 1 1/2"x20 GA, TYPE B, METAL DECK. ATTACH TO SUPPORTS WITH #12 TEK SCREWS @ 12"o/c, USING DETAIL J/S201 VERIFY EXISTING CONDITIONS IN FIELD.

ALTERNATE 1: COLUMN SCHEDULE

MARK	COLUMN	BASEPLATE	COMMENTS
C1	W6x9	3/4" x 5" x 7" w/ (4) 1/2"ø ANCHOR BOLTS w/ HILTI HIT-HY 200 ADHESIVE (6" EMBED)	CHIP EXISTING CONCRETE SLAB 2" TO ALLOW RECESSED BASEPLATE.

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PROJECT NO. PRJ0000889

FOUNDATION AND ROOF FRAMING PLAN

3/12/26

SHEET
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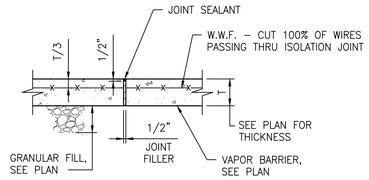
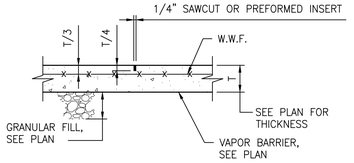


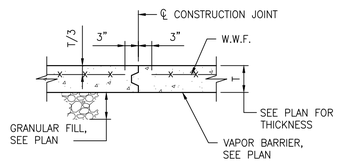
ISOLATION JOINT (A)
SCALE: 3/4" = 1'–0" (S201)

NOTE:
1. ISOLATION JOINT SHALL CARRY THROUGH FULL DEPTH OF BASE SLAB AND TOPPING SLAB (IF REQUIRED).



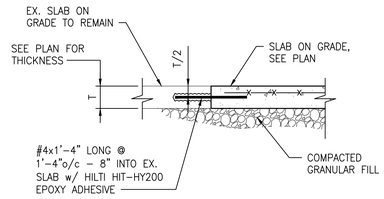
CONTROL JOINT (B)
SCALE: 3/4" = 1'–0" (S201)

NOTES:
1. CUT ALTERNATE WIRES CROSSING JOINT.
2. SAW–CUT CONTROL JOINTS ARE LOCATED ON PLAN.
3. SAW–CUTTING SHALL BE STARTED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE BEING DISLODGED BY THE SAW AND WHEN THE EDGES OF THE CUT DO NOT RAVEL.

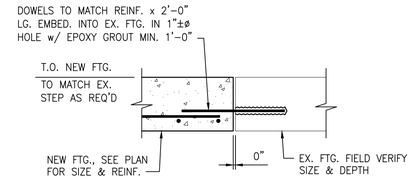


CONSTRUCTION JOINT (C)
SCALE: 3/4" = 1'–0" (S201)

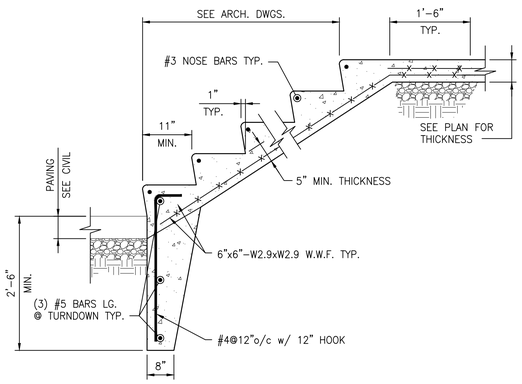
NOTE:
1. CONSTRUCTION JOINT AS NEEDED TO BE LOCATED IN LIEU OF CONTROL JOINTS AS INDICATED ON PLAN.



INFILL AT EXISTING SLAB (D)
SCALE: 3/4" = 1'–0" (S201)

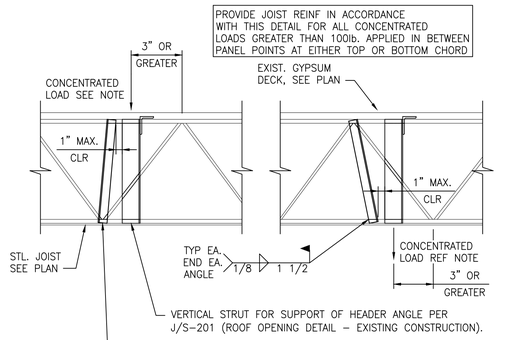


NEW–TO–EXISTING FOOTING DOWELS (E)
SCALE: 3/4" = 1'–0" (S201)



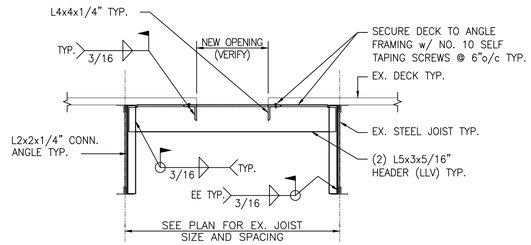
STAIR ON GRADE WITH TURNDOWN (F)
SCALE: 3/4" = 1'–0" (S201)

NOTES:
1. PROVIDE 8" MINIMUM CONCRETE TURN DOWN OR MASONRY SIDE WALLS AS REQUIRED WITH #4@12"/16"o/c. SHORE WALLS AS REQUIRED UNTIL STAIRS HAVE CURED 7 DAYS. REFER TO TYPICAL DETAIL AND GENERAL NOTES FOR FOOTING REQUIREMENTS AT MASONRY SIDE WALLS.
2. KEY SLAB INTO SIDE WALLS 2" MINIMUM. SECURE SLAB TO SIDE WALLS WITH #4 DOWELS BY 2'–0" LONG WITH STANDARD HOOKS AT 12"/16"o/c (SIMILAR CONDITION AT RAMPS).



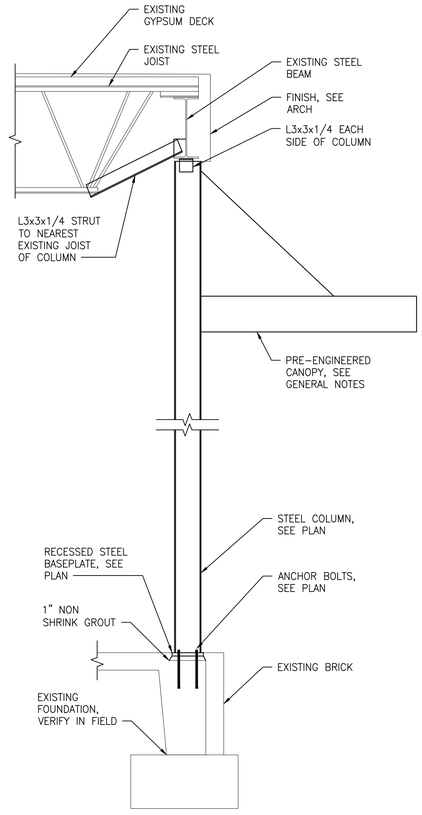
TYPICAL EXISTING JOIST REINFORCING (H)
SCALE: 3/4" = 1'–0" (S201)

NOTES:
1. PROVIDE JOIST REINFORCING IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS APPLIED IN BETWEEN PANEL POINTS AT EITHER TOP OR BOTTOM CHORDS.
2. PRIOR TO WELDING NEW STEEL TO EXISTING JOIST, FINISHED PAINT ON JOIST SHALL BE REMOVED TO BARE METAL.



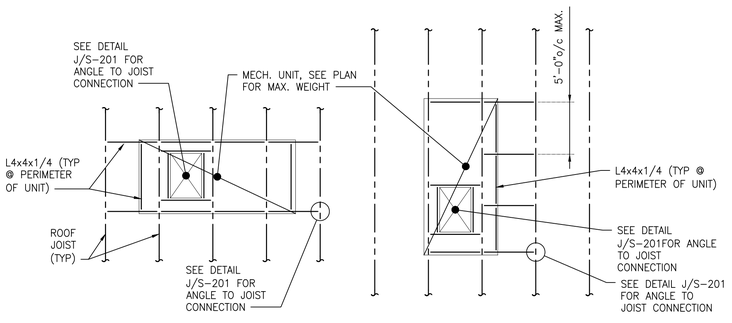
ROOF OPENING DETAIL – EXISTING CONSTRUCTION (J)
SCALE: 3/4" = 1'–0" (S201)

NOTES:
1. PROVIDE ANGLE FRAMES UNDER ALL 4 SIDES OF ANY ROOF TOP EQUIPMENT SUPPORTED BY PREFABRICATED CURBS.
2. PROVIDE ADDITIONAL STRUT ANGLES AT JOIST CONCENTRATED LOADS PER H/S–201(TYPICAL JOIST REINFORCEMENT).
3. PRIOR TO WELDING NEW STEEL TO EXISTING STEEL, FINISHED PAINT ON JOIST SHALL BE REMOVED TO BARE METAL.



SECTION (2)
3/4" = 1'–0" (S201)

NOTE: EXISTING STRUCTURE TO BE DOCUMENTED AFTER DEMO FOR ANY DISCREPANCIES AND TO BE COORDINATED WITH NEW COLUMN INSTALL.

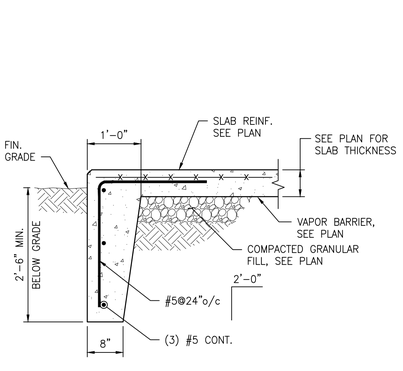


UNIT PERPENDICULAR TO JOIST

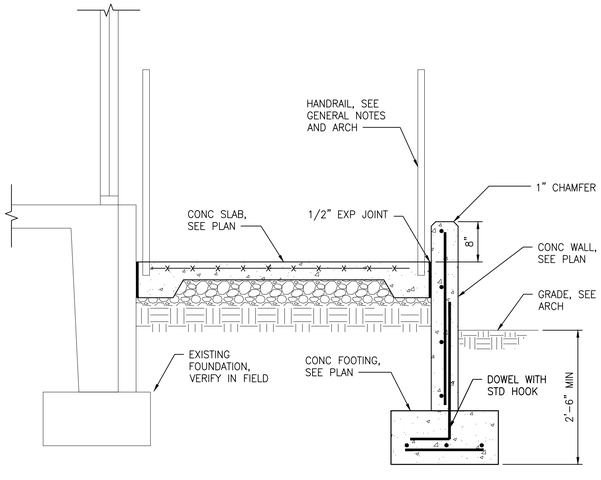
UNIT PARALELL TO JOIST

TYPICAL ROOF TOP EQUIPMENT SUPPORT (K)
SCALE: NOT TO SCALE (S–201)

NOTES:
1. ALL EQUIPMENT TO BE CURB MOUNTED FOR CONTINUOUS SUPPORT.
2. COORDINATE LOCATION AND SIZE OF EQUIPMENT WITH MECHANICAL DRAWINGS.



TURN–DOWN SLAB (L)
SCALE: 3/4" = 1'–0" (S201)



SECTION (1)
3/4" = 1'–0" (S201)

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4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

TYPICAL DETAILS

3/12/26

SHEET S201

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MECHANICAL SPECIFICATIONS

1. ALL NEW DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE MOST RECENT SMACNA. STANDARDS. RIGIDITY CLASS, DIMENSIONS OF TRANSVERSE JOINTS AND INTERMEDIATE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE PHYSICAL SPACE LIMITATIONS OF PROJECT. THE ENTIRE AIR DISTRIBUTION SYSTEM INCLUDING ALL BRANCH DUCTWORK AND DIFFUSER CONNECTIONS SHALL BE SEALED AS REQUIRED TO PREVENT AIR LEAKAGE IN EXCESS OF 5 %. DUCT SEALANT HAVE A FIRE HAZARD RATING NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED. ALL SQUARE THROAT 90 ELBOWS SHALL HAVE TURNING VANES. FIBERGLASS DUCTWORK WILL NOT BE ACCEPTABLE.
2. ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. DUCTWORK SIZES SHOWN DO NOT ACCOUNT FOR DUCTWORK LINER OR INSULATION WRAP THICKNESS.
3. RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK FIBERGLASS DUCT LINER WITH FIRE-RESISTANT COATING ON THE SURFACE FACING THE AIR STREAM. DUCT LINER SHALL BE 2-LB DENSITY WITH A MAXIMUM THERMAL CONDUCTIVITY (K) OF 0.26 AT 75 DEGREES F. ALL SUPPLY AND EXHUAST DUCTWORK SHALL BE EXTERNALLY INSULATED WITH A FIBERGLASS FLEXIBLE BLANKET TYPE OF INSULATION 0.6 LB DENSITY, 1-1/2" THICK WITH VAPOR BARRIER FACING, UNLESS OTHERWISE NOTED ON PLANS.
4. ALL NEW FLEXIBLE DUCT SHALL BE INSULATED WITH FIBERGLASS VAPOR JACKET HAVING A MAXIMUM THERMAL CONDUCTIVITY (K) OF 0.23 AT 75 DEGREES F. NEW FLEXIBLE DUCT SHALL BE WOUND SPIRAL ALUMINUM HELIX OR REINFORCED ALUMINUM FOIL FABRIC LOCKED INTO A SPIRAL ALUMINUM HELIX SUITABLE FOR A POSITIVE WORKING PRESSURE OF AT LEAST 3" W.C. NEW FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 3, TYPE 5, TYPE 8 OR APPROVED EQUAL.
5. ALL LINER AND INSULATION SHALL HAVE A COMPOSITE (INSULATION, JACKET OR FACING, AND ADHESIVE) FIRE HAZARD RATING NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED AS DETERMINED BY THE APPLICABLE UL OR ASTM STANDARD. ACCESSORIES SUCH AS COATINGS, TAPES, AND ADHESIVES SHALL HAVE THE SAME COMPONENT RATINGS. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN RECOMMENDATIONS.
6. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0". WHERE A LENGTH GREATER THAN 8'-0" OCCURS, CONTRACTOR SHALL EXTEND THE DUCTWORK WITH EXTERNALLY INSULATED ROUND SHEET METAL OF THE SAME SIZE AS THE FLEXIBLE DUCT.
7. FLEXIBLE DUCTWORK SHALL NOT EXTEND THROUGH FULL HEIGHT PARTITIONS. CONTRACTOR SHALL EXTEND RIGID ROUND DUCTWORK THROUGH FULL HEIGHT PARTITIONS BEFORE CONNECTING FLEXIBLE DUCTWORK.
8. PROVIDE SPIN COLLAR BRANCH FITTINGS, CONSTRUCTED OF GALVANIZED STEEL, WITH VOLUME DAMPER AT ALL NEW ROUND BRANCH TAPS SERVING ALL SUPPLY AIR CEILING DIFFUSERS AND EXHAUST AIR CEILING GRILLES OR REGISTERS. WHERE THE DEPTH OF THE DUCTWORK WILL NOT PERMIT A SPIN COLLAR FITTING, PROVIDE AN EQUIVALENT FLAT OVAL CONNECTION WITH MANUAL VOLUME DAMPER AND AN OVAL TO ROUND TRANSITION FOR EACH DIFFUSER TAP.
9. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL DUCTWORK SHALL BE INSTALLED AS CLOSE TO THE BOTTOM OF THE STRUCTURE AS POSSIBLE. ALL DUCTWORK SHALL BE INSTALLED TO MAXIMIZE CLEARANCE BETWEEN THE BOTTOM OF DUCTWORK AND THE TOP OF CEILING CONSTRUCTION. DUCTWORK SHALL BE CONFIGURED, POSITIONED, AND INSTALLED TO PERMIT THE INSTALLATION OF LIGHT FIXTURES. PROVIDE ALL NECESSARY RISES, DROPS, OFFSETS, AND OTHER FITTINGS AS REQUIRED TO ACCOMMODATE THIS CRITERIA. ANY DUCTWORK WHICH MUST TRANSITION AND DROP BELOW PIPING OR OTHER DUCTWORK SHALL TRANSITION BACK TO THE BOTTOM OF THE STRUCTURE IMMEDIATELY.
10. PROVIDE FLEXIBLE CONNECTION AT INLETS AND OUTLETS OF ALL UNITS, AND FANS. MATERIAL SHALL BE VENT-FABRICS, INC., "METALEDGE VENTGLAS" OR APPROVED EQUAL. ENDS OF FABRIC MUST BE OVERLAPPED 2" AND GLUED WITH R- H PRODUCTS COMPANY, INC., NUMBER XL8 CONTACT GLUE. SEWING OR STAPLING MAY BE USED IN CONJUNCTION WITH GLUING. AT LEAST ONE INCH SLACK SHALL BE ALLOWED IN ALL FLEXIBLE CONNECTION INSTALLATIONS TO INSURE THAT NO VIBRATION IS TRANSMITTED.
11. ALL NEW SUPPLY AIR DIFFUSERS AND EXHAUST OR RETURN AIR GRILLES AND REGISTERS SHALL BE AS INDICATED ON THE DIFFUSER SCHEDULE OR ON THE DRAWINGS. DIFFUSERS SHALL BE SUITABLE FOR INSTALLATION IN THE CEILING TYPE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. NECK SIZE OF DIFFUSER SHALL BE THE SAME AS THE FLEXIBLE SUPPLY DUCT UNLESS OTHERWISE INDICATED. AIR VOLUME SHALL BE AS INDICATED ON THE DRAWINGS. PROVIDE AIR THROW WITH 4-WAY ADJUSTABLE DISCHARGE PATTERN UNLESS OTHERWISE INDICATED.
12. THE INSTALLATION OF ALL VIBRATION ISOLATION DEVICES AND SYSTEMS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS AND PROCEDURES OF THE VIBRATION ISOLATOR MANUFACTURER. IT SHALL BE THE RESPONSIBILITY OF THE VIBRATION ISOLATION MANUFACTURER TO COORDINATE THE SELECTION OF PIPING SUPPORTS WITH EQUIPMENT SUPPORTS TO PROVIDE FOR A CAREFULLY ENGINEERED SYSTEM DESIGNED TO ACCOMMODATE FOR EXPANSION AND CONTRACTION WITHOUT CREATING EXCESSIVE STRESSES AT ANY EQUIPMENT CONNECTIONS OR IN ANY PORTION OF THE PIPING.
13. ALL NEW VIBRATION ISOLATORS SHALL BE FURNISHED WITH ZINC ELECTROPLATED HARDWARE TO PREVENT CORROSION AND BOLT FREEZE-UP AND TO MAINTAIN ATTRACTIVE APPEARANCE. TO PREVENT CORROSION, STEEL OR CAST IRON HOUSING SHALL BE TREATED BY PHOSPHATING AND PAINTING WHILE ALUMINUM HOUSING SHALL BE ETCHED IN CHROMI-COAT SOLUTION AND PAINTED. ISOLATORS EXPOSED TO WEATHER SHALL HAVE THE SPRING CADMIUM PLATED AND NEOPRENE COATED. HOUSINGS SHALL BE OF CAST ALUMINUM, HOT-DIPPED GALVANIZED STEEL, OR STEEL CADMIUM PLATED AFTER FABRICATION. ISOLATORS FOR EQUIPMENT SUBJECT TO WIND LOADING SHALL BE PROVIDED WITH UPLIFT RESTRAINTS.
14. PROVIDE TYPE M COPPER PIPING, WITH SOLDER JOINTS AND DRAINAGE-TYPE FITTINGS, FOR ALL CONDENSATE DRAIN PIPING. INSTALL CONDENSATE DRAIN PIPING WITH A SLOPE OF 1/8" PER LINEAR FOOT AND PROVIDE A TRAP AT EACH UNIT. GRAVITY DRAINAGE IS SHOWN ON THE PLANS. IF NOT POSSIBLE, INSTALL A PLENUM RATED CONDENSATE PUMP USING 1" TYPE M COPPER CONDENSATE LINES FOR CONDENSATE PUMP DISCHARGE PIPING. INSTALL A BACKWATER VALVE AT THE DISCHARGE OF ALL CONDENSATE PUMPS.
15. REFRIGERANT PIPING SHALL BE SOFT DRAWN TYPE ACR COPPER. MAXIMUM LENGTH OF REFRIGERANT PIPING SHALL BE AS PER MANUFACTURERS REQUIREMENTS.

INSULATION

16. INSULATE ALL SUPPLY AND "VENTILATION AIR" DUCTWORK "LOCATED INSIDE CONDITIONED SPACE" WHICH IS NOT SOUND LINED WITH (R-6) 1-1/2" THICK, 1-1/2 POUNDS PER CUBIC FOOT DENSITY FIBERGLASS INSULATION DUCT WRAP WITH AN INTEGRAL VAPOR BARRIER. MAINTAIN 3" CLEARANCE FROM THE DUCT INSULATION TO RECESSED LIGHTING FIXTURES.
17. INSULATE ALL CONDENSATE DRAIN PIPING WITH 1/2" THICK FLEXIBLE UNICELLULAR PIPING INSULATION.
18. INSULATE ALL REFRIGERANT PIPING WITH 1-1/2" (R-3) THICK FLEXIBLE UNICELLULAR PIPING INSULATION.
19. INSTALL ALL INSULATION IN ACCORDANCE WITH ASTM E84. PROVIDE INSULATION WITH A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DEVELOPED RATING OF LESS THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
20. MAINTAIN VAPOR BARRIER ON ALL INSULATION APPLIED TO ALL EQUIPMENT, PIPING, OR DUCTWORK WHICH CONVEYS LIQUID OR AIR AT A TEMPERATURE OF LESS THAN 70 DEGREES F.
21. PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.

MECHANICAL SPECIFICATIONS (CONT)

INSULATION (CONT.)

22. INSULATE ALL SUPPLY AND "OUTSIDE AIR" DUCTWORK LOCATED IN ATTIC SPACE WHICH IS NOT SOUND LINED WITH (R-8) 2" THICK, 1-1/2 POUNDS PER CUBIC FOOT DENSITY FIBERGLASS INSULATION DUCT WRAP WITH AN INTEGRAL VAPOR BARRIER. MAINTAIN 3" CLEARANCE FROM THE DUCT INSULATION TO RECESSED LIGHTING FIXTURES.
23. MECHANICAL PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F (41°C) OR BELOW 55°F (13°C) SHALL BE INSULATED TO A MINIMUM OF R-3.
24. INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK LOCATED IN UNCONDITIONED SPACES WHICH IS NOT SOUND LINED WITH (R-8) 2-1/2" THICK FIBERGLASS INSULATION DUCT WRAP WITH AN INTEGRAL VAPOR BARRIER. MAINTAIN 3" CLEARANCE FROM THE DUCT INSULATION TO RECESSED LIGHTING FIXTURES.

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL STATE CODE REQUIREMENTS, LOCAL AUTHORITIES, AND NFPA 90.
2. PRIOR TO BID, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DOCUMENTS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. FAILURE TO REVIEW ALL CONTRACT DRAWINGS AND EXISTING CONDITIONS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM ALL WORK REQUIRED. THE CONTRACTOR SHALL, UPON REVIEW OF THE DRAWINGS AND EXISTING CONDITIONS, ADVISE THE OWNER OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.
3. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO INDICATE FINISHED WORK THAT IS FULLY ADJUSTED, TESTED, AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE", UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL THE COMPLETE AND FUNCTIONAL SYSTEMS REQUIRED, INCLUDING EQUIPMENT, CONTROLS, DUCTWORK, PIPING, WIRING, VALVES, AND ALL OTHER APPURTENANCES AND HARDWARE FOR A COMPLETE SYSTEM.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR THE COMPLETE INSTALLATION OF THE EQUIPMENT AS REQUIRED BY CODE WITHOUT ADDITIONAL COST TO THE OWNER, REGARDLESS WHETHER THE ITEMS ARE INDICATED IN THE CONTRACT DRAWINGS OR SPECIFICATIONS. SUCH ITEMS COULD BE, BUT ARE NOT LIMITED TO, SUPPORTS, INSULATION, WIRING, LUBRICATION, MOTOR CONTROLLERS, REFRIGERANTS, START-UP AND SERVICE, ETC.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL A FIRST CLASS SYSTEM AND SHALL COMPLETELY COORDINATE WITH ALL OTHER TRADES.
7. ALL CONFLICTS WHICH MAY PREVENT THE COMPLETION OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT PROCEED WITH RELATED WORK UNTIL THE CONFLICT IS RESOLVED.
8. THE CONTRACTOR SHALL INSTALL ALL MECHANICAL AND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL COMPONENTS AND ACCESSORIES REQUIRED FOR THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL PROVIDE SUCH ITEMS TO COMPLETE THE ENTIRE SYSTEM AND PLACE IN PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODES, INDUSTRY STANDARDS, AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
10. LOCATIONS OF EQUIPMENT, PIPING, VALVES, ETC. ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS AND ESTABLISH EXACT DIMENSIONS ON THE JOB SITE AFTER STUDYING THE CONDITIONS.
11. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND ARRANGE FOR ALL INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ADDITIONAL FITTINGS AND REROUTING OF DUCTWORK AS REQUIRED TO ASSURE THE AIR DISTRIBUTION SYSTEMS ARE INSTALLED PROPERLY AND IN ACCORDANCE WITH SMACNA STANDARDS.
13. THE CONTRACTOR SHALL INSTALL ALL AIR DISTRIBUTION SYSTEMS SO AS TO NOT INTERFERE WITH THE PLUMBING, STRUCTURAL, ELECTRICAL, ARCHITECTURAL AND FIRE PROTECTION SYSTEMS. THE CONTRACTOR SHALL COORDINATE THIS PROJECT REQUIREMENT.
14. ALL NEW AIR SYSTEMS SHALL BE BALANCED AND TESTED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT. IT SHALL BE ESTABLISHED THAT ALL EQUIPMENT IS CAPABLE OF OPERATING AT THE DESIGN CAPACITY AND ALL CONTROLS ARE OPERATING TO THE SATISFACTION OF THE OWNER. ALL SYSTEMS SHALL BE CHECKED FOR EXCESSIVE NOISE OR VIBRATION AND ALL SUCH CONDITIONS BE CORRECTED BY THE CONTRACTOR. BALANCING CONTRACTOR SHALL BE NEBB OR AABC. THE CONTRACTOR SHALL SUBMIT A CERTIFIED BALANCING REPORT TO THE OWNER UPON COMPLETION OF THE PROJECT.
15. PROVIDE NFPA APPROVED FIRE STOPPING AT ALL PIPING AND CONDUIT PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND COMPONENTS.
16. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL MOTOR STARTERS FOR MECHANICAL EQUIPMENT AND THE EQUIPMENT SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
17. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS, EQUIPMENT, AND RELATED ITEMS FOR A PERIOD AFTER COMPLETION OF THE PROJECT AND REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, AND RELATED ITEMS WITHIN THE GUARANTEE PERIOD. THE PERIOD SHALL BE TWELVE MONTHS FROM THE COMPLETION OF THE PROJECT UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATIONS OR CONTRACT DOCUMENTS.
18. ALL CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION BY THE CONTRACTOR TO OBTAIN COMPLETE CONSTRUCTION INFORMATION AND PROVIDE A COMPLETE OPERABLE SYSTEM.
19. THE CONTRACTOR SHALL PROVIDE DIGITAL PDFS OF SUBMITTALS ON UNITS, FIXTURES, DIFFUSERS, AND FANS FOR ENGINEER REVIEW PRIOR TO PURCHASE. SUBMITTALS SHALL INCLUDE ALL INFORMATION NECESSARY TO INDICATE COMPLIANCE WITH THE SPECIFIED MATERIALS.
20. PROVIDE SUBMITTALS OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO THE FOLLOWING : (SUBMITTALS SHALL BE IN ACCORDANCE WITH PROJECT GENERAL CONDITIONS AND ARCHITECTURAL DIVISIONS):
    * SPLIT SYSTEM INDOOR & OUTDOOR UNITS
    * FANS
    * HEATERS
    * GAS FURNACES
    * PIPING MATERIAL
21. REFER TO SPECIFICATIONS ON THIS DRAWING FOR MORE INFORMATION.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL EQUIPMENT (INCLUDING OWNER SUPPLIED) WITH DUCT, PIPING AND CONDUITS SHOWN ON MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
23. DUCTWORK & EQUIPMENT SHOWN ARE SHOWN FOR DIAGRAMMATICAL PURPOSES. EQUIPMENT OR DUCTWORK MIGHT HAVE TO BE SHIFTED SOME DUE TO EXISTING ELECTRICAL CONDUIT, DUCTWORK, SPRINKLER PIPING & PLUMBING PIPING.
24. ALL THERMOSTAT SHALL BE A 7-DAY PROGRAMMABLE THERMOSTAT.
25. MECHANICAL CONTRACTOR SHALL COORDINATE EQUIPMENT WITH THE PLUMBING CONTRACTOR & THE ELECTRICAL CONTRACTOR PRIOR TO FINAL BID.
26. ALL AIR TRANSFER GRILLES SHALL BE AMERICAN LOUVER SIGHT GUARD GRILLE.
27. INSTALLED BACKDRAFT DAMPERS ON ALL INTAKE/EXHAUST PENETRATING EXTERIOR WALL.
28. ALL AIR HANDLERS SHALL HAVE A MANUFACTURER'S DESIGNATION FOR AN AIR LEAKAGE OF NO MORE THAN 2 PERCENT OF THE DESIGN AIR FLOW RATE WHEN TESTED IN ACCORDANCE WITH ASHRAE 193.
29. WHEN ELECTRIC HEATER IS BEING USED AN OUTDOOR AMBIENT THERMOSTAT ACCESSORY SHALL BE INSTALLED ON HEAT PUMP.

MECHANICAL GENERAL NOTES (CONT)

30. CONTRACTOR SHALL SUBMIT FINAL INSPECTION REPORT FOR A DUCT LEAKAGE TEST SHOWING A PASSING RATING OF <=8 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA AT A PRESSURE OF 25 PASCAL. A WRITTEN REPORT OF RESULTS OF THE TEST SHALL BE SIGNED BY PARTY CONDUCTING THE TEST AND PROVIDE TO CODE OFFICIAL.

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ABV	ABOVE
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BPD	BYPASS DAMPER
CD	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
DB, db	DRY BULB
DEG	DEGREES
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH/EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
(E)	EXISTING TO REMAIN
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
F	FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT^2	SQUARE FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR
HZ	HERTZ
IN WG	INCH WATER GAUGE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FOOT
LV	LEAVING
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTORIZED DAMPER
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
RX	REMOVE EXISTING
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SENS	SENSIBLE
SF	SQUARE FEET
SD	SMOKE DETECTOR
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
VD	VOLUME DAMPER
VEL	VELOCITY
W	WATTS
WB, wb	WET BULB
WG	WATER GAUGE
W/	WITH
Ø	ROUND
ZD	ZONE DAMPER

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	NEW DUCTWORK OR EQUIPMENT
	NEW DUCT SIZE TRANSITION FITTING
	RISE IN SUPPLY AIR DUCT
	RISE IN RETURN AIR DUCT
	NEW FLEXIBLE DUCTWORK
	NEW SUPPLY AIR CEILING DIFFUSER
	NEW RETURN AIR CEILING GRILLE
	NEW CEILING MOUNTED EXHAUST FAN
T	THERMOSTAT (WITH CONTROL WIRING/TUBING)
1	REFERENCED NEW WORK PLAN NOTE DESIGNATION
VD	MANUAL VOLUME DAMPER
	POINT OF CONNECTION (NEW TO EXISTING)
SM D	DUCT SMOKE DETECTOR
UC	MINIMUM 1" UNDERCUT DOOR
1 / M-1	PLAN OR DETAIL NUMBER DRAWING NUMBER WHERE PLAN OR DETAIL APPEARS
D-1 000	DIFFUSER/REGISTER/GRILLE DESIGNATION WITH CFM INDICATION
MOD	MOTORIZED DAMPER

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NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

MECHANICAL LEGEND ABBREVIATION

3/12/26

SHEET M000

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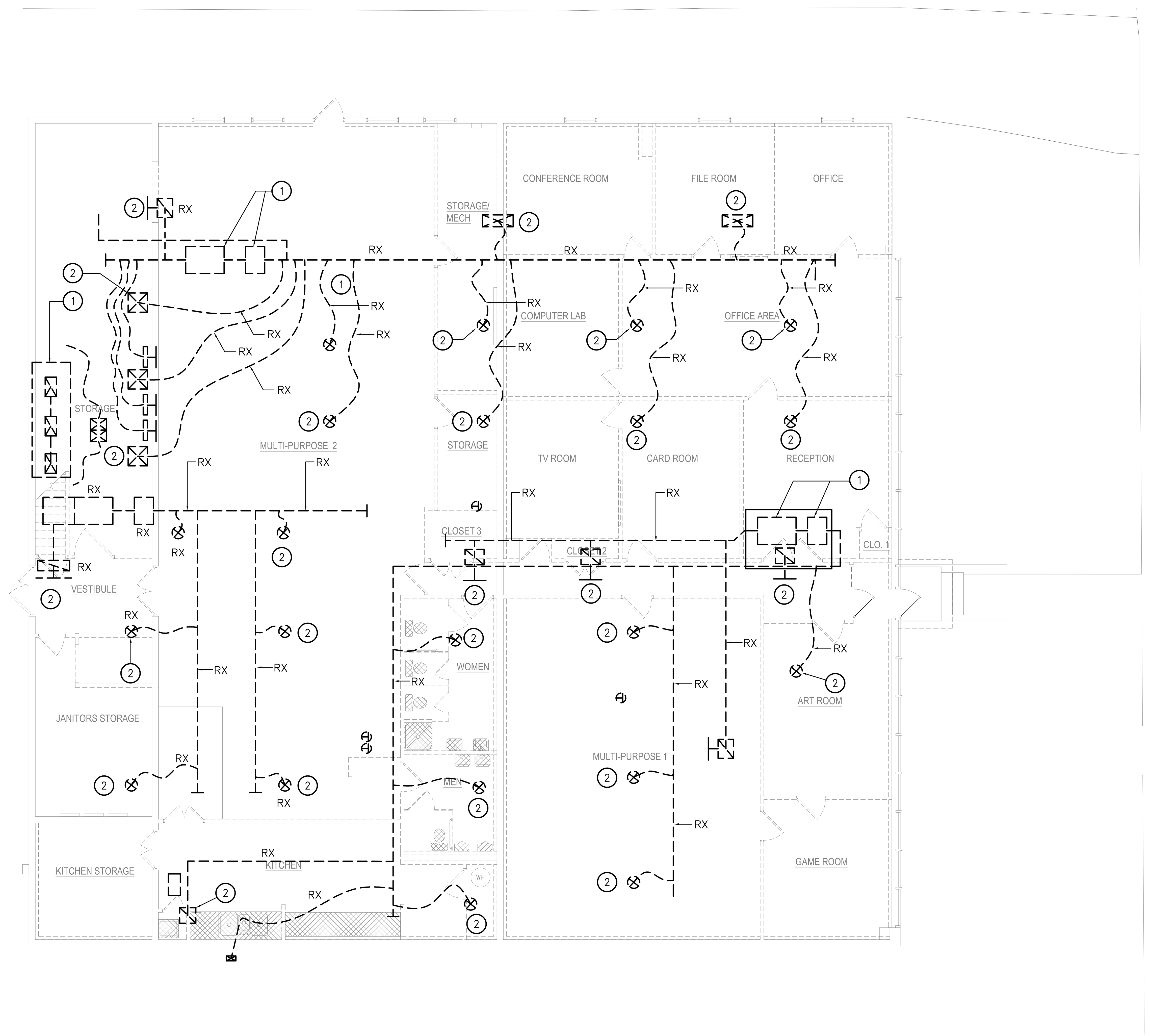

MECHANICAL FLOOR PLAN -DEMOLITION

SCALE: $\frac{1}{8}$"=1'–0"

GENERAL DEMOLTION NOTES

1. REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING, INSULATION, HANGERS, AND SUPPORTS.

DEMOLTION NOTES

(1) REMOVE EXISTING HVAC EQUIPMENT WITH ALL ASSOCIATED FITTINGS, CASING AND INSULATION. CONTRACTOR SHALL ALSO REMOVE ALL HANGERS AND SUPPORT SYSTEM IN IT'S ENTIRETY.

(2) REMOVE AIR DEVICES (DIFFUSER, REGISTER, GRILLE

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MECHANICAL DEMOLITION PLAN

3/12/26

SHEET MD100

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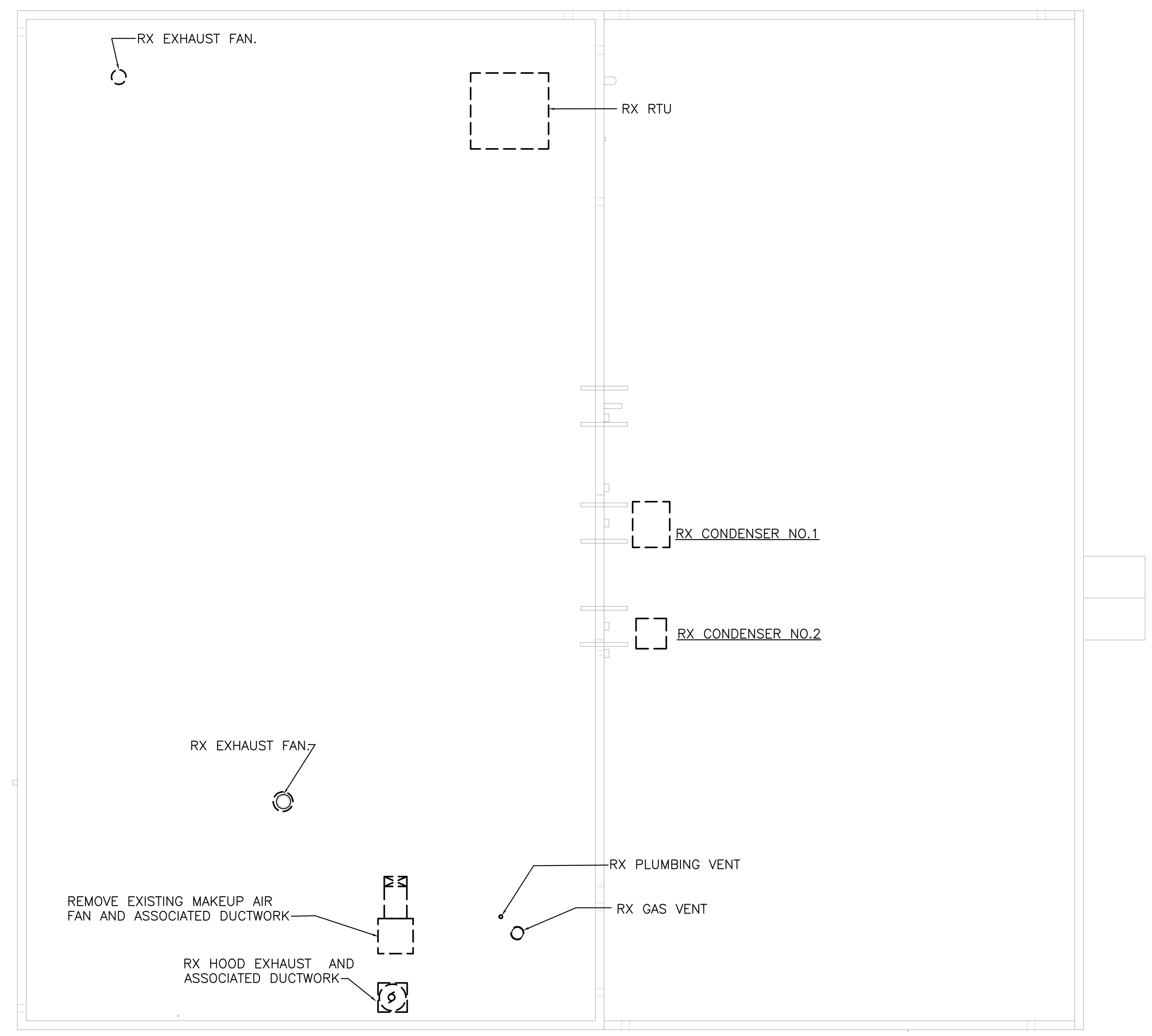

MECHANICAL ROOF PLAN - DEMOLITION

SCALE: 1/8"=1'-0"

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MECHANICAL
DEMOLITION
ROOF PLAN

3/12/26

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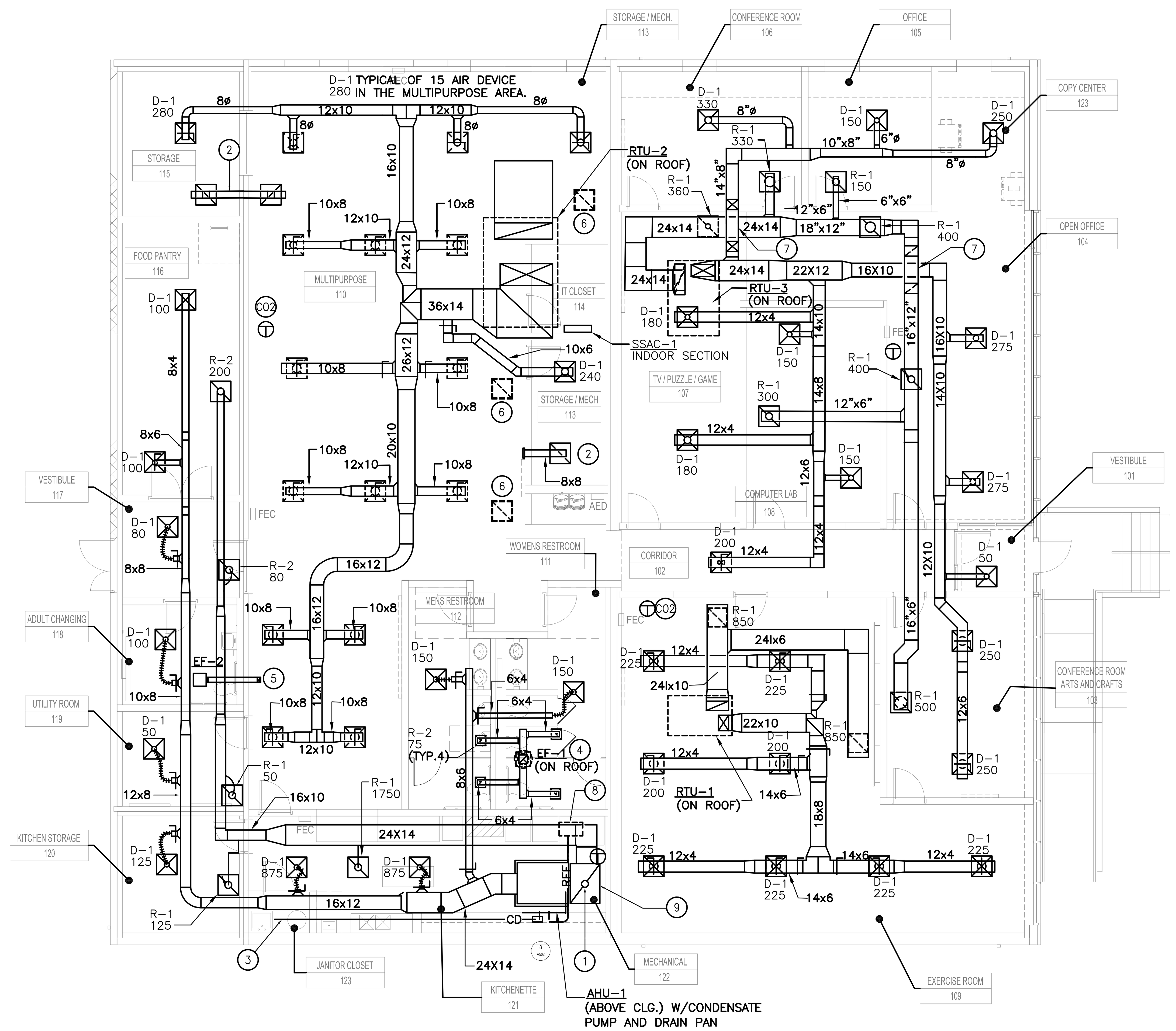

MECHANICAL FLOOR PLAN -NEW WORK

SCALE: 1/8"=1'-0"

GENERAL NOTES

THE MULTIPURPOSE ROOM HAS A RETURN AIR PLENUM CEILING. ALL DISCIPLINES SHALL BE ENSURED TO USE MATERIALS RATED FOR A PLENUM CEILING.

DRAWING NOTES

1. 6"ø OA DUCT UP TO ROOF. BALANCE OA TO 75 CFM. PROVIDE BACKDRAFT DAMPER AND GOOSENECK ABOVE ROOF. SEE DETAIL DWG M-300
2. TRANSFER AIR DUCT. SEE DETAIL DWG. M-400.
3. ROUTE 3/4" CONDENSATE PIPING TO MOP SINK AS INDICATED.
4. 10x10 EXHAUST DUCT UP THRU ROOF TO CONNECT TO EF-1.
5. 6x4 EXHAUST DUCT UP THRU ROOF TO GOOSENECK.SEE DETAIL DWG M-300
6. RETURN AIR PLENUM USE FOR THE MULTI PURPOSE ROOM
7. CROSSING OF DUCTWORK IS LOCATED BETWEEN THE JOIST STRUCTURE
8. HP-1 ON THE ROOF
9. RETURN AIR PLENUM

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MECHANICAL NEW WORK PLAN

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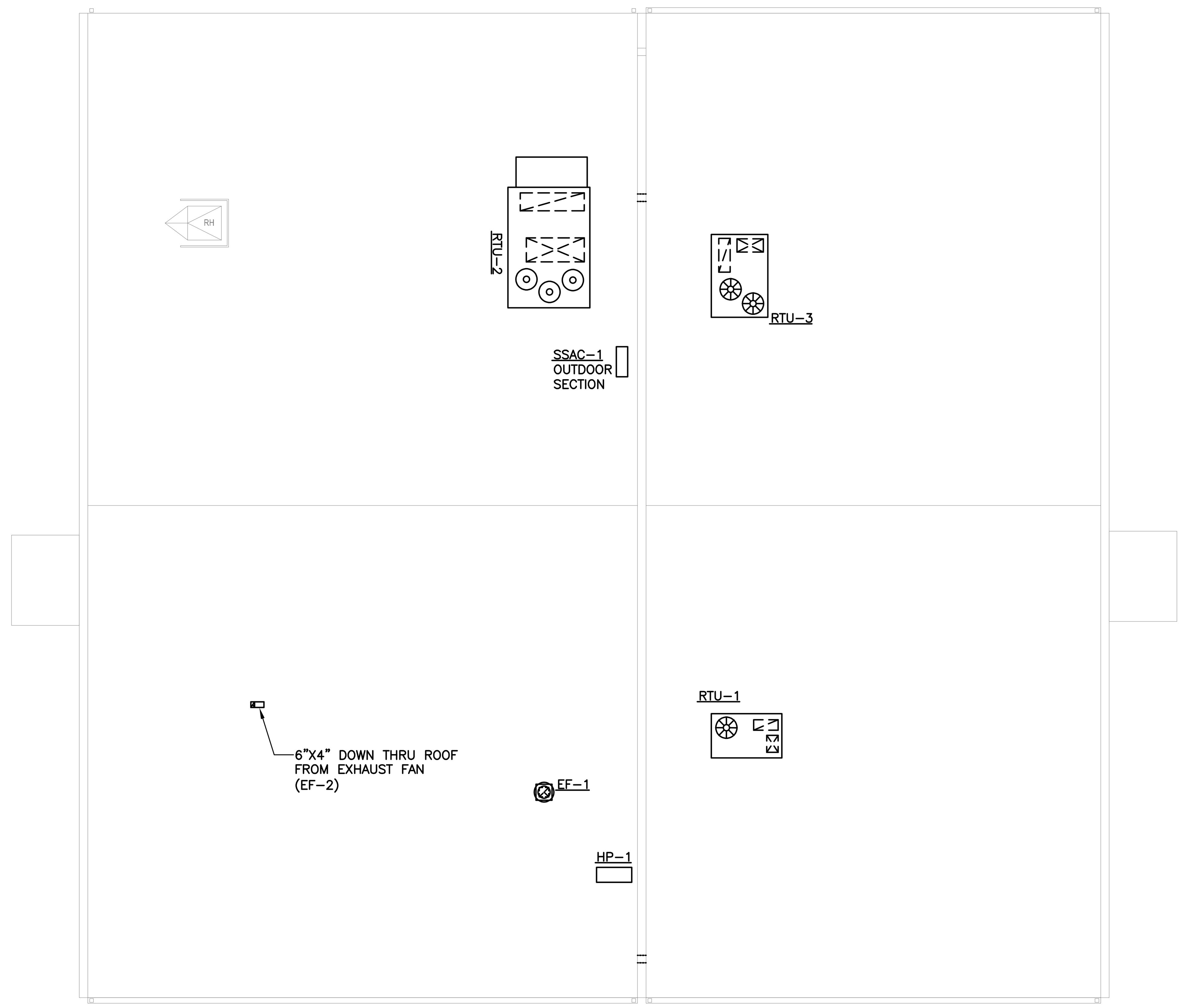

MECHANICAL ROOF PLAN -NEW WORK

SCALE: 1/8"=1'-0"

GENERAL NOTES (HVAC ROOF PLAN)

1. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE MANUFACTURERS RECOMMENDATION, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
2. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT ON ROOF TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
3. COORDINATE CONSTRUCTION AND INSTALLATION OF HVAC WITH ALL OTHER DISCIPLINES.
4. EQUIPMENT SPACING TO MEET THE MANUFACTURER'S CLEARANCE RECOMMENDATIONS.

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DESIGN AND CONSTRUCTION DIVISION

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Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER
RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

MECHANICAL NEW WORK ROOF PLAN

3/12/26

SHEET M101

JCE NO. 2017.36 PRINTED:01/24/2025

EXHAUST FAN SCHEDULE

FAN NO.	LOCATION	AREA OR SYSTEM SERVED	CFM	STATIC PRESS. (IN. WG.)	RPM	WATTS	FAN TYPE	DRIVE	HP	MANUF. AS STAND.	MODEL NO.
EF-1	ROOF	MEN'S AND WOMEN'S RM	300	.25	1350	75	ROOF DOWNBLAST	DIRECT	1/10	GREENHECK	G-080
EF-2	CEILING	ADULT CHANGING REST RM	75	.25	1500	75	CEILING	DIRECT	1/16	GREENHECK	SP-A90

SPLIT SYSTEM UNIT SCHEDULE

DESIGNATION INDOOR/OUTDOOR	SUPPLY AIR TOTAL CFM	MINIMUM OUTSIDE AIR CFM	ESP ("W.G.)	COOLING CAPACITY		HEATING OUTPUT (MBH)	AUXILIARY HEATER(KW)	SUPPLY FAN HP	FAN COIL UNIT ELECTRICAL DATA		CONDENSING UNIT ELECTRICAL DATA		MANUFACTURER AND MODEL NUMBER	
				SENS (MBH)	TOTAL (MBH)				MCA/ MOCP	VOLTS/ PHASE	MCA/ MOCP	VOLTS/ PHASE	FAN COIL UNIT	CONDENSING UNIT
AHU-1/HP-1	2900	310	.7	63.2	87.6	38.63	8	2.5	34/35	208/3	38/60	208/3	CARRIER 40RFQA08	CARRIER 38AUQM08
SSAC-1/SSAC-1	360	0	0	8.5	11.4	0.0	0.0	2.5	9/15	208/1	9/15	208/1	CARRIER 40HHOC12AA3	CARRIER 38HHOC12AA3

SCHEDULE NOTES:

1. COOLING DESIGN BASED ON 95'FDB/78'FWB AMBIENT OUTDOOR CONDITION, 45'F SUCTION TEMPERATURE, AND 75'F 50% RH SPACE CONDITION.
2. CONTRACTOR TO FURNISH AND INSTALL INSULATED REFRIGERANT PIPING BETWEEN AHU'S AND CONDENSING UNITS. REFER TO PIPING MANUAL PUBLICATION OF MANUFACTURER. SIZE AND CHARGE REFRIGERANT PER MANUFACTURER'S RECOMMENDATIONS FOR SUCH APPLICATION.
3. PROVIDE LIQUID LINE SOLENOID VALVES WITH OUTDOOR UNITS. PROVIDE ALL UNITS WITH FILTERS, LOW AMBIENT CONTROL TO 055DF.
4. HEAT PUMP UNITS ARE HYPER HEAT UNIT. HEATING VALUES SHOWN ARE AMBIENT TEMP OF 5'F.

PACKAGED ROOFTOP UNIT SCHEDULE

TAG	SERVING	NOM. TONS	O/A CFM	SUPPLY FAN DATA				EER	DX COOLING COIL DATA					HEATING CAPACITY				AIR FILTER		ELECTRICAL DATA			W.T. (LBS)	BASIS OF DESIGN /MODEL	REMARKS
				CFM	E.S.P. IN. WG	RPM	BHP		E.A.T. DB/WB	L.A.T. DB/WB	TOTAL MBH	SENS.MBH	REFGT. TYPE	HEAT TYPE	STG.S	INPUT MBH or KW	OUTPUT MBH	MERV RATING	DEPTH	VOLTS/ PH	MCA	MOCP			
RTU-1	EXERCISE	6.0	160	1670	0.5	2500	1.7	11.2	80/69	57/56	75.9	42.5	410A	GAS	2	67	54	13	4"	208/3	33	50	610	CARRIER 48FEDM07I2A5	1-7
RTU-2	MULTIPURPOSE	17.5	1730	4600	1.5	1800	2.0	10.8	82/70	56/55	220.6	127.8	410A	GAS	2	220	178	13	4"	208/3	101	125	1673	CARRIER 48FEDM20L2A5	1-7
RTU-3	OFFICES	6.0	510	2690	0.5	2834	1.5	11.2	78/67	59/58	78.6	5.59	410A	GAS	2	67	54	13	4"	208/3	34	50	610	CARRIER 48FEDM07L2A5	1-7

REMARKS NOTES:
1. PROVIDE POWER EXHAUST ACCESSORY.
2. PROVIDE WITH 16" HIGH ROOF CURB. COORDINATE WITH ARCHITECT
3. PROVIDE SUPPLY AND RETURN AIR DUCT SMOKE DETECTORS WITH AUXILIARY CONTACTS.
4. UNIT SHALL BE EQUIPPED WITH OUTSIDE AIR ECONOMIZER WITH POWER EXHAUST.
5. PROVIDE DISCONNECT.
6. PROVIDE HVAC SET-POINT AND VENTILATION CONTROL PER IGCC 701.4.3.10.3 & 701.4.3.10.4.
7. PROVIDE PROGRAMMABLE THERMOSTAT WITH CO2 SENSORS FOR VENTILATION CONTROL FROM MIN TO MAX OA CFM. RTU DAMPER SHALL OPEN TO MAXIMUM OPEN POSITION WHEN CO2 PPM EXCEEDS 1100. OA DAMPER POSITION SHALL RETURN TO MINIMUM POSITION WHEN COR LEVELS ARE 850 PPM OR BELOW.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

DESIGNATION	SERVICE	MOUNTING	FACE SIZE (IN.)	NECK SIZE (IN.)	LINEAR			CFM RANGE	MAX NC	REMARKS
					SLOT LENGTH (IN.)	SLOT WIDTH (IN.)	QTY OF SLOTS			
D-1	SUPPLY	SUSPENDED CEILING	24x24	6"ø	–	–	–	0-200	30	TITUS TMS, LOUVERED FACE. DUCT RUNOUT SAME SIZE AS DIFFUSER NECK.
				8"ø	–	–	–	201-350		
				10"ø	–	–	–	351-540		
				12"ø	–	–	–	541-650		
				14"ø	–	–	–	651-850		
				16"ø	–	–	–	851-980		
R-1	RETURN/ EXHAUST	SUSPENDED CEILING	24x24	6"ø	–	–	–	0-130	30	TITUS PAR, PERFORATED FACE, WITH DAMPER. DUCT RUNOUT SAME SIZE AS DIFFUSER NECK.
				8"ø	–	–	–	131-200		
				10"ø	–	–	–	201-300		
				12"ø	–	–	–	301-400		
				14"ø	–	–	–	401-530		
				16"ø	–	–	–	531-675		
				22x22	–	–	–	676-2500		
R-2(S,L)	RETURN/ EXHAUST	SURFACE MOUNTED	SAME AS NECK	SEE PLANS	–	–	–	SEE PLANS	30	TITUS 355R WITH DAMPER. 35' FIXED BLADE DEFLECTION, PARALLEL TO THE (S)-SHORT OR (L)-LONG DIMENSION. REFER TO PLANS FOR SIZES. DUCT RUNOUT SAME SIZE AS DIFFUSER NECK.

NOTES:
- ALL DIFFUSERS SHALL BE 4-WAY DIRECTIONAL BLOW UNLESS NOTED OTHERWISE.
- ALL DIFFUSERS SHALL BE STEEL UNLESS NOTED OTHERWISE.

Project Name: Harford Senior Center	RTU-2
Date:01082025	
Total Required Outdoor Air: 1650	Total HVAC Supply Air: 4600 cfm

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per VMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per VMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x Ft1000 (Pz)	H Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
			0	0	0	0	0	0	0	0,8	0
MULTIPURPOSE	DINING HALL	1825	0,18	329	70	128	7,5	960	1289	0,8	1612
STORAGE 113	STORAGE	180	0,06	11	0	0	0	0	11	0,8	14
STORAGE114	STORAGE	179	0,06	11	0	12	0	0	11	0,8	14
STORAGE 115	STORAGE	204	0,06	12	0	0	0	0	12	0,8	15
Totals		2386.6		363		140		960	1323		

Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction

Occupant Diversity D = Ps/∑all zones Pz: 1.000

Total Required Outdoor Air: 1654

System Population (Ps): Diversity → 140

Uncorrected O.A. Vou = D ∑all zones RpPz + ∑all zones RaAz: 1323

Percentage of Outdoor Air: 55%

Total Existing HVAC Tons: 7.5

Total Existing Supply CFM: 3000

Project Name: Harford Senior Center	AHU-1
Date:01082025	
Total Required Outdoor Air: 160	Total HVAC Supply Air:2900 cfm

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per VMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per VMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x Ft1000 (Pz)	H Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
ADULT CHANGING	RESTROOM	126	0,06	8	0	0	0	0	8	0,8	10
FOOD PANTRY	STORAGE	274	0,06	16	0	0	0	0	16	0,8	20
FOOD PANTRY OFFICE	OFFICE	103	0,06	6	5	1	5	5	11	0,8	14
JAN CLOSET	STORAGE	15	0,06	1	0	12	0	0	1	0,8	2
KITCHEN 121	OFFICE	296	0,06	18	5	12	5	60	78	0,8	98
KITCHEN STORAGE	STORAGE	156	0,06	9	0		0	0	9	0,8	12
MECHANICAL	STORAGE	102	0	0	0	0	0	0	0	0,8	0
NJ'S ROOM	STORAGE	193	0	0	0		0	0	0	0,8	0
UTILITY	STORAGE	133	0	0	0		0	0	0	0,8	0
VESTIBUL	STORAGE	99	0	0	0		0	0	0	0,8	0
WOMENS ROOM	STORAGE	258	0	0	0		0	0	0	0,8	0
			0	0			0	0	0	0,8	0
Totals		1755.7		58		25		65	123		156

Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction

Occupant Diversity D = Ps/∑all zones Pz: 1.000

Total Required Outdoor Air: 154

System Population (Ps): Diversity → 25

Uncorrected O.A. Vou = D ∑all zones RpPz + ∑all zones RaAz: 123

Percentage of Outdoor Air: 5%

Total Existing HVAC Tons: 7.5

Total Existing Supply CFM: 3000

Project Name: Harford Senior Center	RTU-1
Date:01082025	
Total Required Outdoor Air: 380	Total HVAC Supply Air:1670 cfm

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per VMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per VMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x Ft1000 (Pz)	H Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
EXERCISE	HEALTH CLUB	1057	0.12	127	40	43	0	0	127	0.8	159
Totals		1057		127		43		0	127		159

Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction

Occupant Diversity D = Ps/∑all zones Pz: 1.000

Total Required Outdoor Air: 159

System Population (Ps): Diversity → 67

Uncorrected O.A. Vou = D ∑all zones RpPz + ∑all zones RaAz: 303

Percentage of Outdoor Air: 13%

Total HVAC Tons: 7.5

Total Existing Supply CFM: 3000

Project Name: Harford Senior Center	RTU-3
Date:11/19/2025	
Total Required Outdoor Air: 1650	Total HVAC Supply Air: cfm

A Room Number	B Description	C Area (ft²) (Az)	D Area Outdoor Air Rate per VMC Table 403.3 (Ra)	E Area Outdoor Air (RaAz)	F Occupant Load Rate per VMC Table 403.3 (People/ 1000 ft2)	G Occupancy C x Ft1000 (Pz)	H Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	I Occupant Outdoor Air (RpPz)	J Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	K Zone Air Distribution Effectiveness (Ez)	L Zone Outdoor Air (Voz = Vbz / Ez)
COMPUTER LAB	OFFICE	1825	0,06	110	5	10	5	50	160	0,8	200
CONFERENCE	CONFERENCE	180	0,06	11	50	9	5	45	56	0,8	70
GAME ROOM	OFFICE	179	0,06	11	5	12	5	60	71	0,8	89
OFFICE	OFFICE	204	0,06	12	5	12	5	60	72	0,8	90
OPEN OFFICE	OFFICE	710	0,06	43	5	12	5	60	103	0,8	129
Totals		3096.6		187		55		275	462		578

Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction

Occupant Diversity D = Ps/∑all zones Pz: 1.000

Total Required Outdoor Air: 578

System Population (Ps): Diversity → 55

Uncorrected O.A. Vou = D ∑all zones RpPz + ∑all zones RaAz: 462

Percentage of Outdoor Air: 19%

Total Existing HVAC Tons: 7.5

Total Existing Supply CFM: 3000

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Department of General Services
CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
DESIGN AND CONSTRUCTION DIVISION

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I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

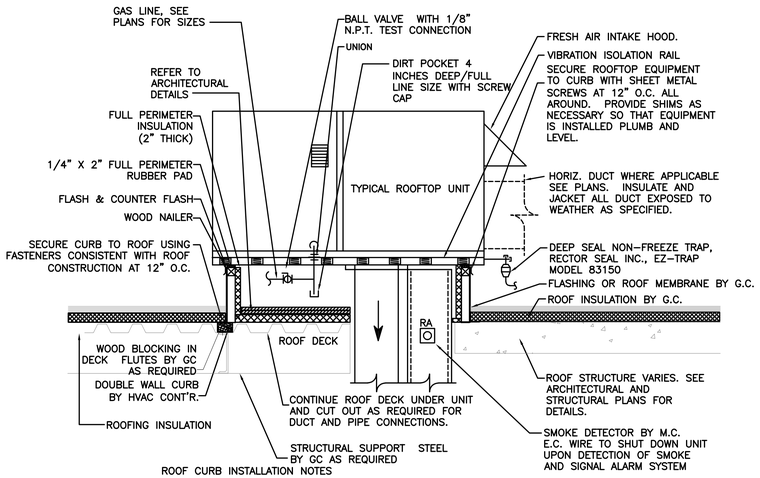
HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000089

MECHANICAL SCHEDULES

3/12/26

SHEET M200

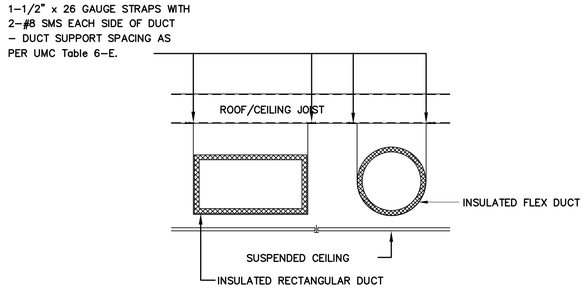
JCE NO. 2017.36 PRINTED:01/24/2025



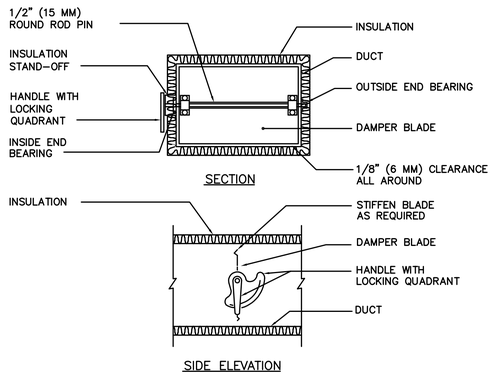
ROOF CURB INSTALLATION NOTES

1. THIS DETAIL IS DIAGRAMMATIC IN THAT IT ILLUSTRATES AN INSTALLATION ON A FLAT ROOF. ACTUAL CONSTRUCTION AND PITCH MAY VARY. CONTRACTORS SHALL SHIM CURB AS NECESSARY TO PROVIDE PLUMB AND LEVEL EQUIPMENT INSTALLATION.
2. ROOF CURBS SHALL BE INSTALLED SQUARE WITH BUILDING LINES.
3. CONTRACTOR SHALL SEAL, FLASH, AND COUNTER FLASH ROOF CURB TO PROVIDE A COMPLETE WEATHERTIGHT INSTALLATION.
4. COORDINATE THE FINAL LOCATION OF THE RTU WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS."'

TYPICAL ROOFTOP UNIT DETAIL
NO SCALE



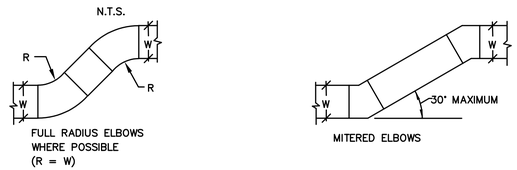
TYPICAL DUCT SUPPORT
NO SCALE



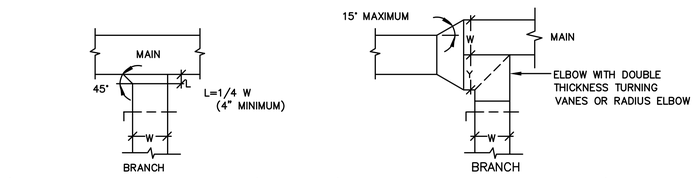
TYPICAL VOLUME DAMPER DETAIL
NOT TO SCALE

NOTES:

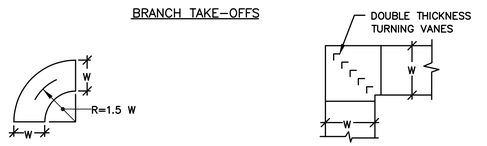
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.



DUCT OFFSETS



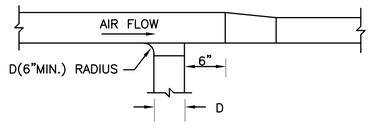
BRANCH TAKE-OFFS



LOW VELOCITY ELBOWS

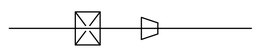
RECTANGULAR TO RECTANGULAR TRANSITIONS

TYPICAL DETAILS - RECTANGULAR DUCT FITTINGS
N.T.S.

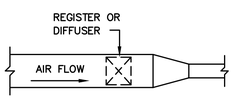


TYPICAL TAPOFF AND TRANSITION FROM SIDE OF DUCT

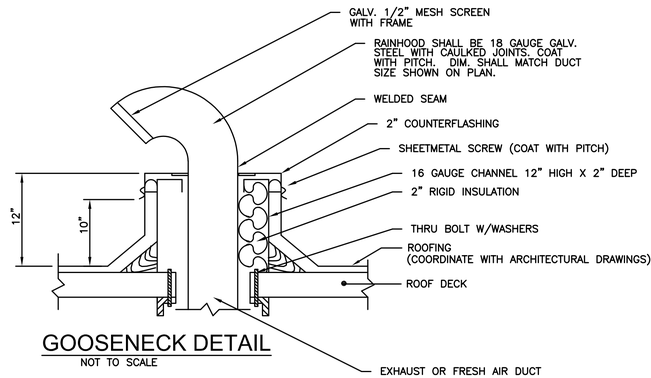
SEE SMACNA MANUAL FOR METHOD OF SECURING TAPOFF CONNECTION TO MAIN(SAME FOR EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED)



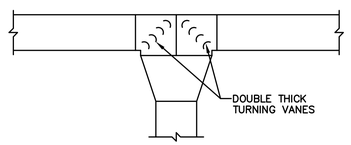
PLAN SYMBOL



DIFFUSER OR REGISTER TAPOFF AND TRANSITION
(SAME FOR EXHAUST DUCT EXCEPT FLOW IS REVERSED)



GOOSENECK DETAIL
NOT TO SCALE



TYPICAL SPLITS
NO SCALE

RRMM ARCHITECTS, PC
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(410) 234-8444

DGS Department of General Services
CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
DESIGN AND CONSTRUCTION DIVISION

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NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

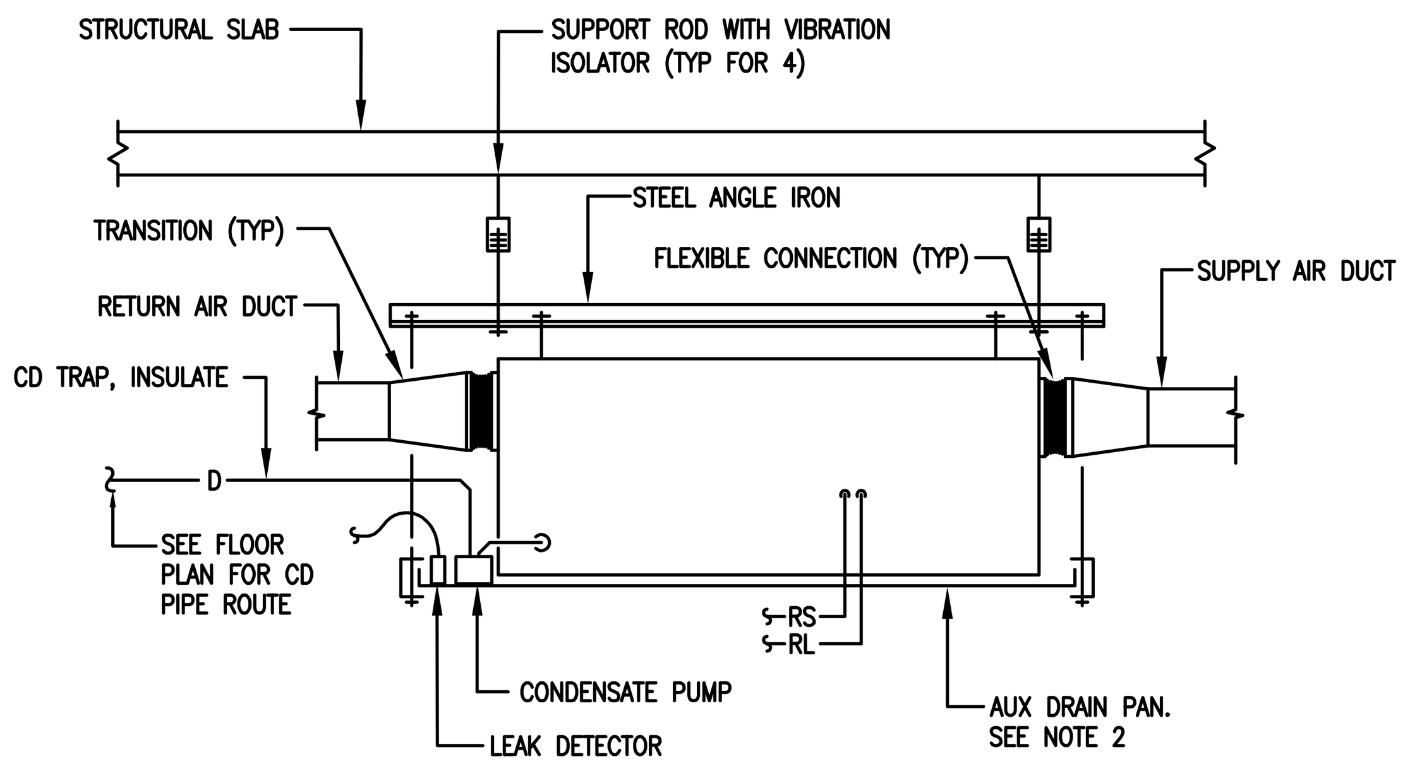
MECHANICAL DETAIL

3/12/26

SHEET M300

30 OF 51

JCE NO. 2017.36 PRINTED:01/24/2025

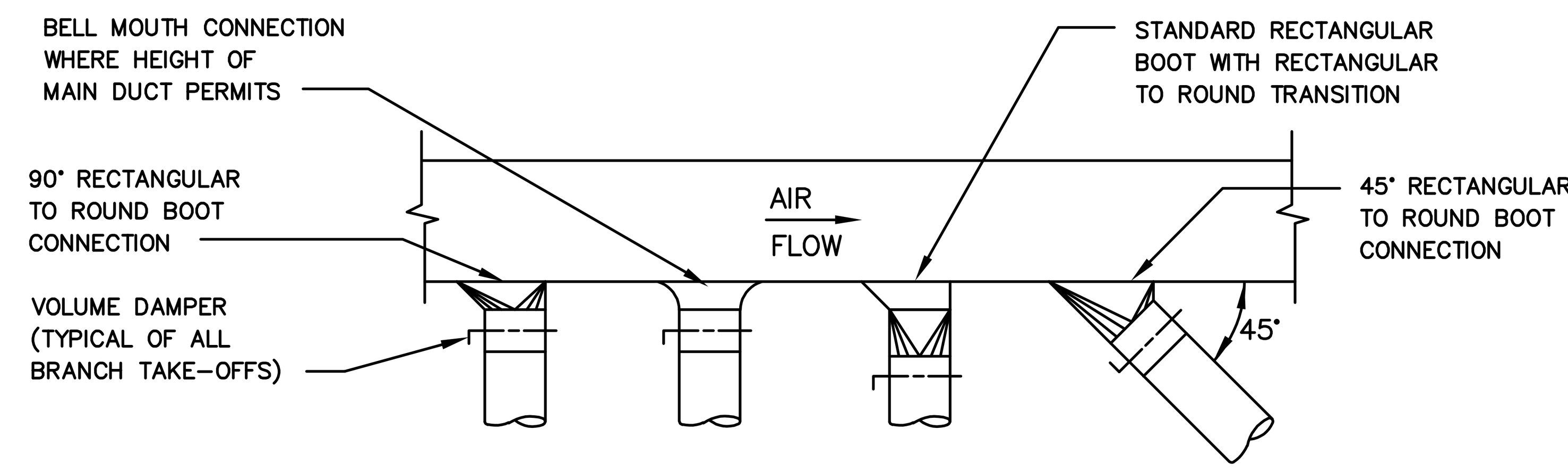


NOTES:

1. UPON SENSING OF WATER IN AUX DRAIN PAN, UNIT SHALL SHUT DOWN. SEE SEQUENCE OF OPERATION ON THIS DRAWING.
2. DRAIN PAN SHALL BE CONSTRUCTED OF 18 GAUGE GALVANIZED STEEL w/ SOLDERED JOINTS AND 2" HIGH ROLLED EDGE. EXTEND PAN MINIMUM OF 6" BEYOND UNIT.

UNIT MOUNTED FROM STRUCTURE ABOVE DETAIL - AHU-1)

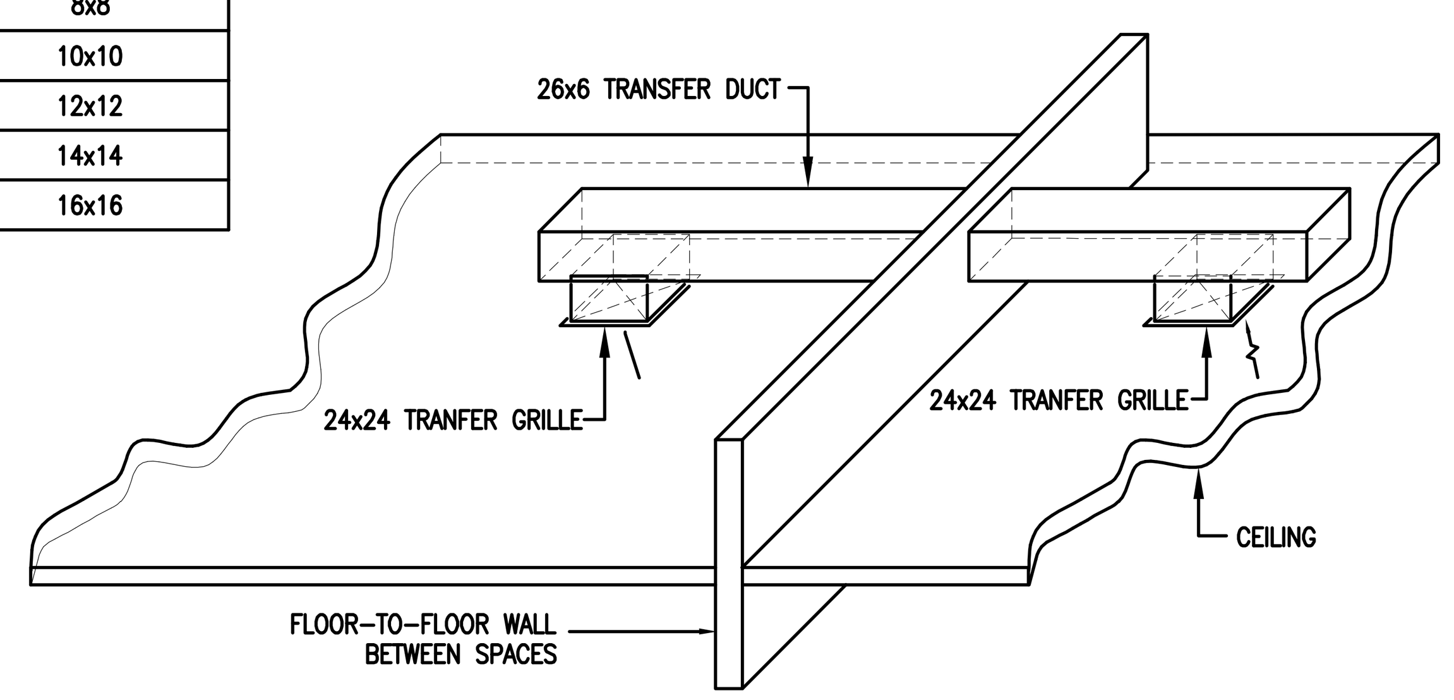
N.T.S.



ALTERNATE RECTANGULAR TO ROUND DUCT BRANCH CONNECTIONS

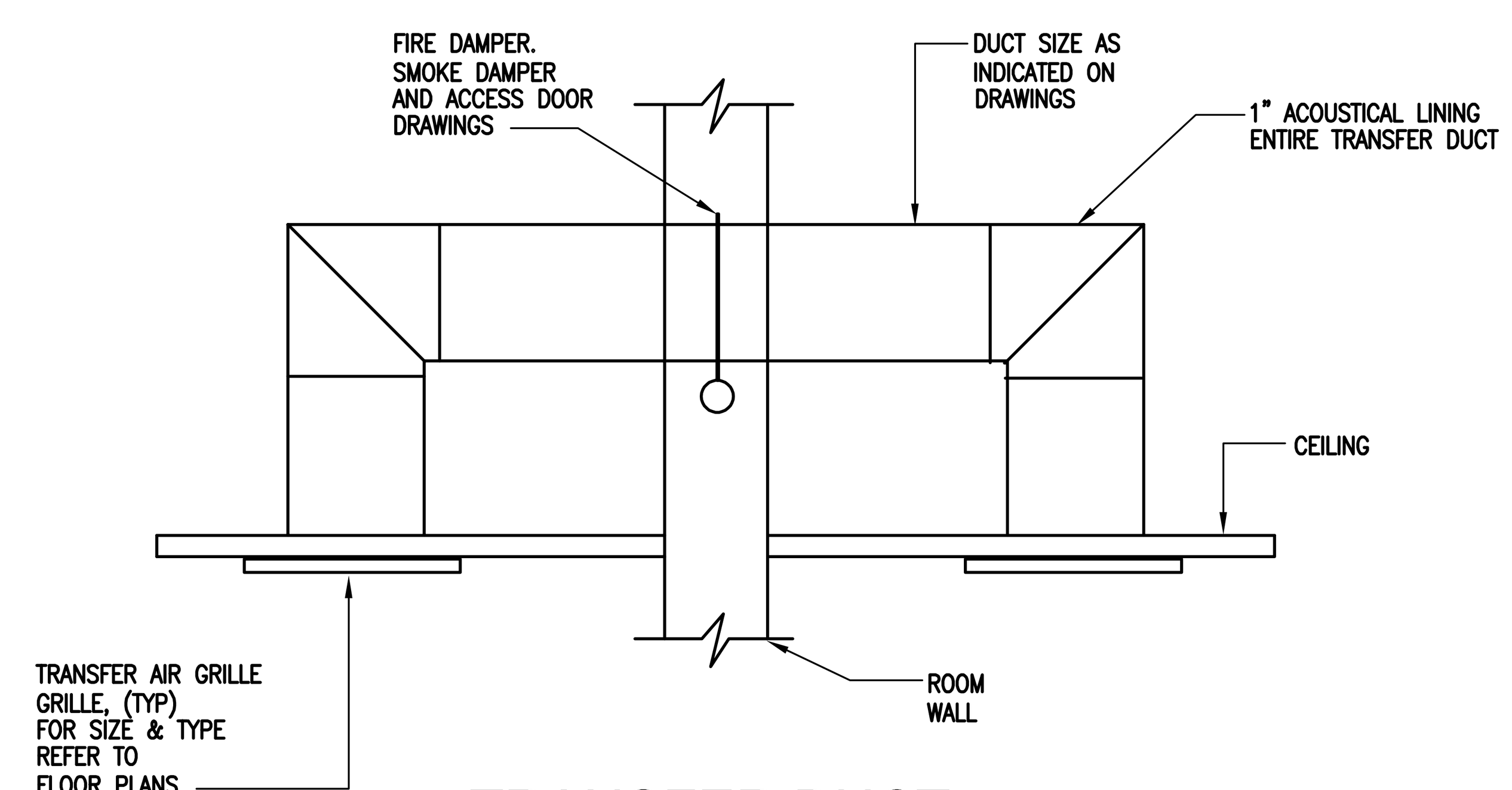
(BRANCH FLOW LESS THEN 25% OF MAIN FLOW)

DUCT SIZE SCHEDULE	
CFM RANGE	DUCT SIZE (DIMENSIONS FOR NET FREE AREA)
0-200	8x8
201-300	10x10
301-400	12x12
401-600	14x14
601-800	16x16



TRANSFER AIR DUCT WITH GRILLES DETAIL

N.T.S.



TRANSFER DUCT WITH FIRE DAMPER

RRMM ARCHITECTS, PC
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Baltimore, Maryland 21227
(410) 234-8444

DGS
Department of General Services
CITY OF BALTIMORE
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HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

MECHANICAL DETAILS II

3/12/26

SHEET M400

JCE NO. 2017.36 PRINTED:01/24/2025

GENERAL PLUMBING NOTES

1. ALL MATERIALS AND THEIR INSTALLATION WILL CONFORM TO THE MOST CURRENT JURISDICTION-APPROVED VERSION OF THE INTERNATIONAL PLUMBING CODE (IPC), NATIONAL STANDARD PLUMBING CODE (NSPC), OR WASHINGTON SUBURBAN SANITARY COMMISSION (WSSC) PLUMBING AND FUEL GAS CODE, ANY CITY/STATE VARIATIONS, PROVISIONS AND/OR AMENDMENTS, ALL RELEVANT ICC, NFPA, AWWA, UL, ASME, AND ASSE REQUIREMENTS, AND ANY LOCAL AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS AS REQUIRED BY THESE DESIGN DOCUMENTS.
3. EXCEPT WHERE EXPLICITLY INDICATED ON THE DRAWINGS. ALL PIPING SHOWN IS AS IT ACTUALLY OCCURS WITHIN THE BUILDING. PROPOSED PLUMBING WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS IN ORDER TO INSURE PROPER INSTALLATION.
4. ALL PIPING SHALL HAVE ITS SLOPE AND INVERTS ESTABLISHED PRIOR TO INSTALLATION OF ANY PIPING; SLOPES AS REQUIRED SHALL BE MAINTAINED. COORDINATE ALL PIPING WITH ALL OTHER TRADES PRIOR TO THE COMMENCEMENT OF WORK. REFER TO ARCHITECTURAL PLANS BEFORE BEGINNING ANY WORK.
5. THE WORK AREA WILL BE LEFT BROOM CLEAN AT THE END OF EACH WORK DAY AND ALL TRASH AND DEBRIS SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER; CONTRACTOR WILL CHECK WITH THE BUILDING OWNER AND/OR MANAGER TO DETERMINE IF THERE ARE ANY SPECIFIC DISPOSAL REQUIREMENTS FOR TRASH. DURING CONSTRUCTION.
6. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER. SHOULD IT BE DETERMINED THAT THE CONTRACTOR IS INSTALLING USED EQUIPMENT WITHOUT PERMISSION. THEN THEY WILL BE REMOVED FROM THE PROJECT. IN ADDITION, SUBMITTALS FOR ALL NEW EQUIPMENT AND MATERIALS WILL BE PROVIDED TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE AND INSTALLATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR RESEARCHING THE DRAWINGS TO DETERMINE THE QUANTITY OF ALL PLUMBING ITEMS REQUIRED. NOTE THAT THE SYMBOLS SHOWN ON THE SCHEDULES DEFINE THE TYPE OF EQUIPMENT PRESENT, NOT THE QUANTITY.
8. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL IN ORDER TO PROVIDE FOR THE PROPER INSTALLATION OF ALL PLUMBING EQUIPMENT. DISCREPANCIES AS TO WHAT IS REQUIRED AS TO WHAT IS INDICATED ON THE PLANS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK IN ORDER THAT THE ENGINEER MAY CLARIFY THE INTENTION OF THE DESIGN. THIS MUST BE DONE PRIOR TO THE SUBMISSION OF FINAL BIDS. IF THE CONTRACTOR DOES NOT BRING TO THE ENGINEER'S ATTENTION IMMEDIATELY ANY POTENTIAL DISCREPANCIES PRIOR TO THE SUBMISSION OF FINAL BIDS, THEN THE CONTRACTOR HAS ACCEPTED THE DRAWINGS AS SUFFICIENT AND ANY CHANGE ORDERS DURING THE CONSTRUCTION PHASE WILL NOT BE ACCEPTED.
9. ALL EQUIPMENT/MATERIAL INSTALLED WITHIN A RETURN AIR PLENUM WILL BE RATED FOR THIS TYPE OF INSTALLATION.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS FOR PLUMBING ITEMS AND ALL SHUT-OFF VALVES IN WALLS OR ABOVE CEILING WITHIN THE SCOPE OF THE CONTRACTOR'S WORK; ACCESS PANEL DIMENSIONS WILL ACCOMMODATE UNIT REMOVAL/REPAIR.
11. THE CONTRACTOR WILL PROVIDE ALL PUMP CONTROLLERS, DISCONNECTS, AND ANY OTHER ELECTRICAL DEVICES NEEDED FOR THE PROPER INSTALLATION OF ANY EQUIPMENT WITHIN THE SCOPE OF THESE DESIGN DOCUMENTS. ELECTRICAL CONTRACTOR WILL INSTALL DEVICES AND PROVIDE FINAL CONNECTIONS.
12. THE CONTRACTOR WILL INSTALL ALL PLUMBING EQUIPMENT IN A MANNER AS TO MAINTAIN THE FACTORY RECOMMENDED CLEARANCES ABOUT THE UNIT TO ALLOW FOR SERVICEABILITY. CONTACT THE ENGINEER IF IT IS DETERMINED THAT A UNIT INSTALLATION IS IMPEDING (OR BEING IMPEDED) FUTURE SERVICEABILITY SUCH THAT THE ITEM CAN BE RESOLVED.
13. CONTRACTOR TO CLEAN ALL EXISTING FLOOR DRAINS AND REPAIR OR REPLACE ANY DRAINS THAT ARE DAMAGED
14. CONTRACTOR SHALL IDENTIFY ANY ISSUES WITH THE SLOPING OF THE PLUMBING PIPING PROIR TO FINAL BID.

PLUMBING SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
F	SPRINKLER MAIN
	GAS PIPING
	SANITARY VENT PIPING
	SANITARY PIPING
CA	COMPRESSED AIR
FM	FORCED MAIN
PD	PUMP DISCHARGE
GW	GREASE WASTE
FD	FOUNDATION DRAINAGE PIPE
SP	SPRINKLER PIPE
	CONNECT TO EXISTING
	DEMOLITION
	GATE VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	GAS COCK
	BALANCING VALVE
	BACKFLOW PREVENTER
	PIPE UP
	PIPE DOWN
	PIPE TEE DOWN
	SHOCK ABSORBER
	BALANCE VALVE
	BALANCE VALVE ASSEMBLY
TP	DRAIN TRAP PRIMER
IE XXXXX	INVERT ELEVATION
	INDICATES TYPE, REFER TO SCHEDULE
FD-1	FLOOR DRAIN
	FLOOR SINK
CO CO	CLEANOUT
S / #	SANITARY RISER
F / #	FIRE STANDPIPE RISER
W / #	DOMESTIC WATER RISER
ST / #	STORMWATER RISER
SP / #	SPRINKLER PIPE RISER
G / #	GAS PIPE RISER
	CAPPED PIPE
	PIPE UNION
	THERMOMETER
	PRESSURE GAUGE
	BALL VALVE
	GAS COCK
	RELIEF VALVE
	MIXING VALVE
	OS&Y VALVE
	OS&Y VALVE W/TAMPER SWITCH
	SIAMESE CONNECTION VALVE
	THERMOMETER
M	UTILITY METER
	STRAINER

AFF	ABOVE FINISHED FLOOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATM	ATMOSPHERE
AUX	AUXILIARY
BHP	BRAKE HORSEPOWER
BM	BELL MOUTH
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONDUIT
CMXL	COMBINATION MAGNETIC ACROSS THE LINE STARTER
COND	CONDENSATE
CTR	CENTER
CU FT	CUBIC FEET
CU IN.	CUBIC INCH
CW	COLD WATER
CX	CONNECT TO EXISTING
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE(S)
DN	DOWN
DX	DIRECT EXPANSION
EX	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
FLEX	FLEXIBLE
FO	FLAT OVAL
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING
HW	HOT WATER
HWR	RECALCULATING HOT WATER
LAT	LEAVING AIR TEMPERATURE
LB	POUND(S)
LF	LINEAR FEET
LG	LENGTH
MH	MOUNTING HEIGHT
NTS	NOT TO SCALE
OA	OUTDOOR AIR
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH, ABSOLUTE
PSIG	POUNDS PER SQUARE INCH, GAUGE
QTY	QUANTITY
R	RISE
RA	RETURN AIR
RX	REMOVE EXISTING
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SMACNA	SHEET METAL AND AIR-CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SQ. FT	SQUARE FOOT
⌷	SQUARE FOOT
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VTR	VENT THROUGH ROOF
W	WATT(S)
W/	WITH
W/O	WITHOUT
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WH	WATER HEATER

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Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

PLUMBING GENERAL NOTES LEGEND

3/12/26

SHEET P-000

STATE OF MARYLAND ... No. 16001 PROFESSIONAL ENGINEER

JCE NO. 2017.36 PRINTED:01/24/2025

COLD WATER PIPING INSULATION

PIPE SIZE	PIPING LOCATION	FLUID OPERATING TEMPERATURE	INSULATION MATERIAL
1" OR SMALLER	INDOOR	40-60	1" THICK CELLULAR GLASS; 1/2" THICK FLEXIBLE ELASTOMETRIC; 1/2" MINERAL-FIBER, PREFORMED PIPE INSULATION;1" THICK PHENOLIC.
1-1/4" OR LARGER	INDOOR	40-60	1" THICK CELLULAR GLASS; 1" THICK FLEXIBLE ELASTOMETRIC; 1" MINERAL-FIBER, PREFORMED PIPE INSULATION;1" THICK PHENOLIC.
1" OR SMALLER	OUTDOOR	40-60	2" THICK CELLULAR GLASS; 2" THICK FLEXIBLE ELASTOMETRIC; 2" MINERAL-FIBER, PREFORMED PIPE INSULATION; 2" THICK PHENOLIC.
1-1/4" OR LARGER	OUTDOOR	40-60	2" THICK CELLULAR GLASS; 2" THICK FLEXIBLE ELASTOMETRIC; 2" MINERAL-FIBER, PREFORMED PIPE INSULATION; 2" THICK PHENOLIC.

PUMP SCHEDULE

DESIGNATION	DESCRIPTION	LOCATION	MAKE/MODEL	GPM	FRICTION LOSS FT. OF HD	HP	RPM	COMMENTS
RCP-1	CIRCULATION PUMP	-	TACO/OO3-BC4	0.75	2	0.025	3250	1

NOTES
1. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALLATION.

FLOOR DRAIN / SINK SCHEDULE

DESIGNATION	PIPE SIZE CONNECTION	DESCRIPTION	COMMENTS
FD-1	3"	CAST IRON FLOOR DRAIN TRAP PRIMER	FLOOR DRAIN SHALL BE ZURN MODEL Z507-VP.
FD-2	4"	CAST IRON FLOOR DRAIN TRAP PRIMER	FLOOR DRAIN SHALL BE ZURN MODEL Z453B
FS-1 (P-6)	4"	CAST IRON FLOOR SINK WITH ACID RESISTANT INTERIOR	FLOOR DRAIN SHALL BE ZURN MODEL Z1900

SEE SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER
+ FLOOR DRAIN (3") IS PROVIDED FOR FLOOR DRAINS FOR TOILET ROOMS
+ FLOOR DRAIN (4") IS PROVIDED FOR FLOOR DRAINS FOR KITCHEN AREA AND SHALL HAVE DEEP SEAL TRAP

HOT WATER & RECIRCULATING HOT WATER PIPING INSULATION

PIPE SIZE	PIPING LOCATION	FLUID OPERATING TEMPERATURE	INSULATION MATERIAL
1-1/4" OR SMALLER	INDOOR	105-120	1" THICK CELLULAR GLASS; 3/4" THICK FLEXIBLE ELASTOMETRIC; 1/2" MINERAL-FIBER, PREFORMED PIPE INSULATION;1" THICK PHENOLIC.
1-1/2" OR LARGER	INDOOR	105-120	1" THICK CELLULAR GLASS; 1" THICK FLEXIBLE ELASTOMETRIC; 1" MINERAL-FIBER, PREFORMED PIPE INSULATION;1" THICK PHENOLIC.
1" OR SMALLER	OUTDOOR	105-120	2" THICK CELLULAR GLASS; 2" THICK FLEXIBLE ELASTOMETRIC; 2" MINERAL-FIBER, PREFORMED PIPE INSULATION; 2" THICK PHENOLIC.
1-1/4" OR LARGER	OUTDOOR	105-120	2" THICK CELLULAR GLASS; 2" THICK FLEXIBLE ELASTOMETRIC; 2" MINERAL-FIBER, PREFORMED PIPE INSULATION; 2" THICK PHENOLIC.

EQUIPMENT SCHEDULE

DESIGNATION	DESCRIPTION	LOCATION	MAKE/MODEL	COMMENTS
MV-1	MIXING VALVE	LAVATORIES/ HAND SINK	LEONARD/270-LF	1
ET-1	EXPANSION TANK	JANITOR'S CLOSET	A.O. SMITH/PMC-10	1

NOTES
1. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALLATION.
2. MV-1 SHALL BE INSTALLED ON ALL LAVATORIES & HAND SINKS.
3. EXPANSION TANK TO BE INSTALLED ON NEW WATER HEATER.

WATER HEATER SCHEDULE

DESIG.	DESCRIPTION	GALLONS	FIRST HR RATING (GPH)	ELECTRICAL ELEMENT	ELECTRICAL POWER	MAKE/MODEL	COMMENTS
WH-1	NEW ELECTRIC WATER HEATER	40	50	6 KW	208V-1PH	BRADFORD WHITE RE340R6	1,2,3

NOTES
1. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALLATION.
2. INSTALL PER MANUFACTURERS REQUIREMETNS,.
3. EXPANSION TANK TO BE INSTALLED ON NEW WATER HEATER.

RPZ BACKFLOW PREVENTER

DESIG.	DESCRIPTION	MODEL SIZE	LENGTH	WEIGHT		MAKE/MODEL	COMMENTS
RPZ-1	BACKFLOW PREVENTER	1-1/2"	23"	16 LBS		ZURN MODEL 975XL3	

NOTES
LEAD FREE

UNDERGROUND SANITARY PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
4" OR SMALLER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS
5" OR LARGER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS

UNDERGOUND SANITARY PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2021 TABLES 702.2, 702.3 & 702.4

ABOVEGROUND DRAINAGE PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
4" OR SMALLER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS
	COPPER DWV TUBE	ASTM A74	COPPER DRAINAGE FITTINGS AND SOLDERED JOINTS.
5" OR LARGER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS

ABOVEGROUND SANITARY PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2018 TABLES 702.1, 702.3 & 702.4

ABOVEGROUND VENT PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
4" OR SMALLER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS
	COPPER DWV TUBE	ASTM A74	COPPER DRAINAGE FITTINGS AND SOLDERED JOINTS.
5" OR LARGER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS
	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS

ABOVEGROUND VENT PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2018 TABLES 702.1, 702.3 & 702.4

PLUMBING FIXTURE SCHEDULE

NO.	TYPE	CONNECTIONS							
		COLD WATER	HOT WATER	WASTE	VENT	FLOW RATE	MANUFACTURER/MODEL	FAUCET MANUFACTURER/MODEL	NOTES
P-1	WATER CLOSET FLOOR MTD.	1/2"	-	4"	2"	1.28 GPF	AMERICAN STANDARD/MADERA FLOWISE 2854.128	---	1,2,3,6
P-1A	WATER CLOSET FLOOR MTD. (ADA)	1/2"	-	4"	2"	1.28 GPF	AMERICAN STANDARD/MADERA FLOWISE 2854.128	---	1,2,3,6
P-2	LAVATORY (DROP IN SINK)	1/2"	1/2"	2"	1-1/4"	0.35 GPM	AMERICAN STANDARD MURRO WITH SHROUD	DELTA LEVER HANDLE MODEL 87T911	1,2,3,
P-2A	LAVATORY (WALL MOUNTED)	1/2"	1/2"	2"	1-1/4"	1.2 GPM	AMERICAN STANDARD/REGALYN MODEL4869.001	DELTA LEVER HANDLE MODEL 87T911	1,2,3,4,
P-3	URINAL	3/4"	--	2"	1-1/4"	0.5 GPF	AMERICAN STANDARD/WASHBROOK MODEL 6590.503	AMERICAN STANDARD MODEL: 6045.051	1,2
P-3A	URINAL ADA	3/4"	--	2"	1-1/4"	0.5 GPF	AMERICAN STANDARD PINTBROOK	AMERICAN STANDARD MODEL: 6045.051.002	1,2
P-4	WATER COOLER	1/2"	--	2"	1-1/2"	---	ELKAY MODEL: LVRCTL8WS	---	1,2,7
P-5	MOP SINK	1/2"	1/2"	3"	1/2"	1.5 GPM	FIAT MOLDED STONE MODEL MSB2424	FIAT MODEL 830-AA	1,2
P-6	2-COMPARTMENT SINK	1/2"	1/2"	(2)2" INDIRECT	2"	1.5 GPM	REGENCY MODEL: #600S217172G	MOEN MODEL 5923	1,2,8
P-7	KITCHEN HAND SINK	1/2"	1/2"	2"	2"	1.5 GPM	REGENCY MODEL: #600HS17SP		
HB-1	HOSE BIBB	3/4"	--	--	--	---	MURDOCK: M-33609QT	---	5

NOTES:
1. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE FIXTURE ROUGH-IN, IE. SUPPLIES, STOPS, TRAPS, CARRIERS, GRID DRAINS, TAILPIECES, ETC. NOT ALL REQUIRED COMPONENTS ARE SPECIFIED ABOVE.
2. SEE PLANS AND RISERS FOR VENT SIZING AND CONNECTIONS.
3. FIXTURES SHALL BE ADA COMPLIANT, PROVIDE WITH ADA COMPLIANT ACCESSORIES, MOUNT ADA COMPLIANT, SEE ARCHITECTURAL PLANS FOR ELEVATIONS.
4. PROVIDE PROFLO GUARD INSULATION DEVICES ON EXPOSED UNDERCOUNTER PLUMBING.
5. PROVIDE FREEZEPROOF HOSEBIBB WITH INTEGRAL VACUUM BREAKER, VANDAL RESISTENT CAP AND "T" HANDLE KEY,.
6. TOILETS SHALL BE PROVIDED WITH HEAVY DUTY OPEN FRONT SEATS WITHOUT COVER. AMERICAN STANDARD MODEL 5901.100
7. WATER COOLER SHALL BE VANDAL RESISTANT PUSH BUTTON ACTIVATIONS AND PROVIDED WITH A BOTTLE FILLING STATION.
8. PROVIDE STAINLESS STEEL SPLASH GUARDS ALONG WALL BEHIND FLOOR SINK

UNDERGROUND WATER PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
3" OR SMALLER	SOFT COPPER, COPPER TUBE	ASTM B88 TYPE K, WROUGH-COPPER B251	SOLDER-JOINT FITTINGS AND BRAZED JOINTS
4" OR LARGER	DUCTILE IRON	AWWA C151,A21.51; AWWA C115/A21.15	MECHANICAL JOINT, STANDARD PATTERN, AND MECHANICAL JOINT FITTINGS

WATER PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2021 TABLE 605.3, 605.4 & 605.5

ABOVEGROUND WATER PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
2" OR SMALLER FOR RESIDENTIAL UNITS	PEX TUBE	ASTM B88 TYPE L, CAST OR WROUGH-COPPER B251	NPS 1 AND SMALLER, FITTINGS FOR PEX TUBE; AND CRIMPED JOINTS
	PE-AL-PE TUBE		NPS 1 AND SMALLER; FITTINGS FOR PE-AL-PE TUBE AND CRIMPED JOINTS
	PEX-AL-PEX TUBE		NPS 1 AND SMALLER; FITTINGS FOR PEX-AL-PEX TUBE; AND CRIMPED
	HARD COPPER TUBE	ASTM B88 TYPE L	SOLDER-JOINT FITTINGS, SOLDERED JOINTS OR PRESSURE SEALED JOINTS
4" OR SMALLER	HARD COPPER, COPPER TUBE	ASTM B88 TYPE L, CAST OR WROUGH-COPPER B251	SOLDER-JOINT FITTINGS AND SOLDERED JOINTS
2-1/2" TO 4"	HARD COPPER TUBE	ASTM B88 TYPE L OR TYPE K	SOLDER-JOINT FITTINGS, BRAZED JOINTS
	HARD COPPER TUBE	ASTM B88 TYPE L OR TYPE K	GROOVED-JOINT, COPPER-TUBE APPURTENANCES; AND GROOVED JOINTS
5" TO 8"	HARD COPPER TUBE	ASTM B88 TYPE L OR TYPE K	GROOVED-JOINT, COPPER-TUBE APPURTENANCES; AND GROOVED JOINTS

WATER PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2020 TABLE 605.3, 605.4 & 605.5

ABOVEGROUND STORM WATER PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
6" OR SMALLER	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS
	SOILD WALL PVC	ASTM A74	PVC FITTINGS, AND SOLVENT CEMENTED JOINTS WILL BE ACCEPTABLE ONLY IN LOCATIONS THAT WILL NOT BE USED AS RETURN AIR PLENUMS.
8" OR LARGER	HUBLESS, CAST IRON PIPE	ASTM A888; CISPI 301	CAST IRON FITTINGS. CISPI HEAVY DUTY CAST IRON HUBLESS PIPING COUPLINGS; AND COUPLED JOINTS

STORM WATER PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2021 TABLE 1102.4, 1102.5 & 1102.6

UNDERGROUND STORM WATER PIPING

PIPE SIZE	MATERIAL	STANDARD	NOTES
4" OR SMALLER	DUCTILE IRON	AWWA C151,A21.51; AWWA C115/A21.15	MECHANICAL JOINT, STANDARD PATTERN, AND MECHANICAL JOINT FITTINGS
6" OR LARGER	SERVICE, CAST IRON PIPE	ASTM A74	GASKETS AND GASKET JOINTS

STORM WATER PIPING DESIGN REQUIREMENTS
BASED ON IPC. 2021 TABLE 1102.4, 1102.5 & 1102.6

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Department of General Services
CITY OF BALTIMORE
DEPARTMENT OF GENERAL SERVICES
DESIGN AND CONSTRUCTION DIVISION

Johnson Consulting Engineers, Inc.

Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ0008B9

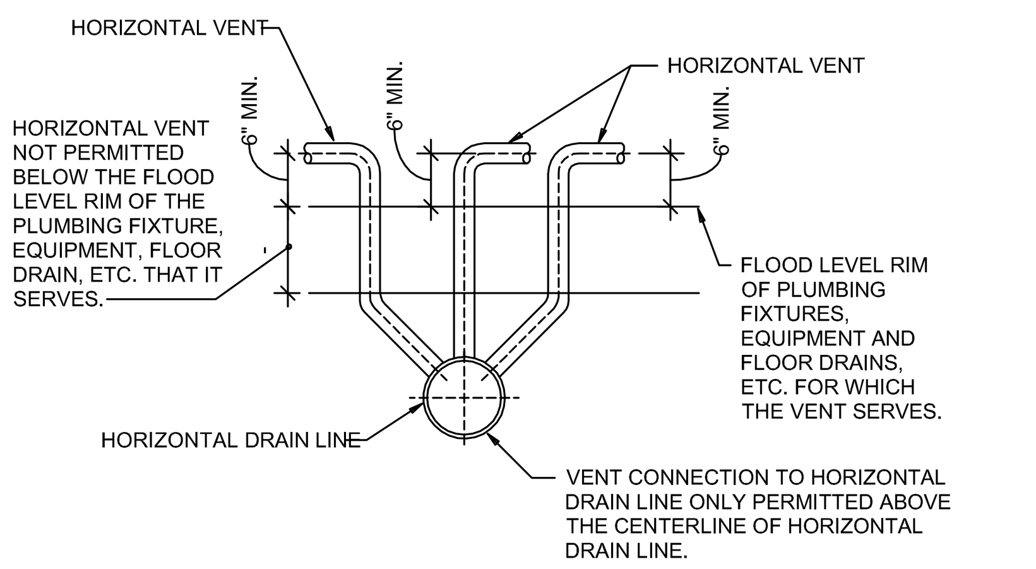
PLUMBING SCHEDULES

3/12/26

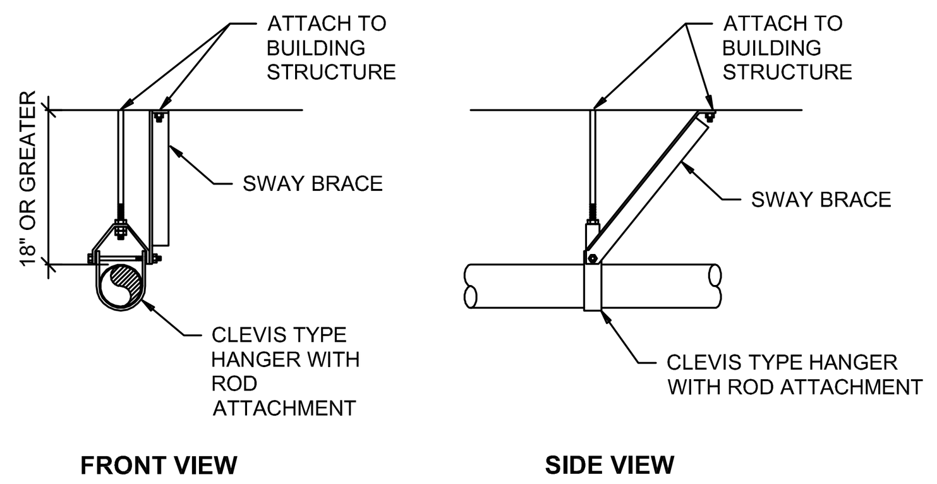
SHEET P001

330F 51

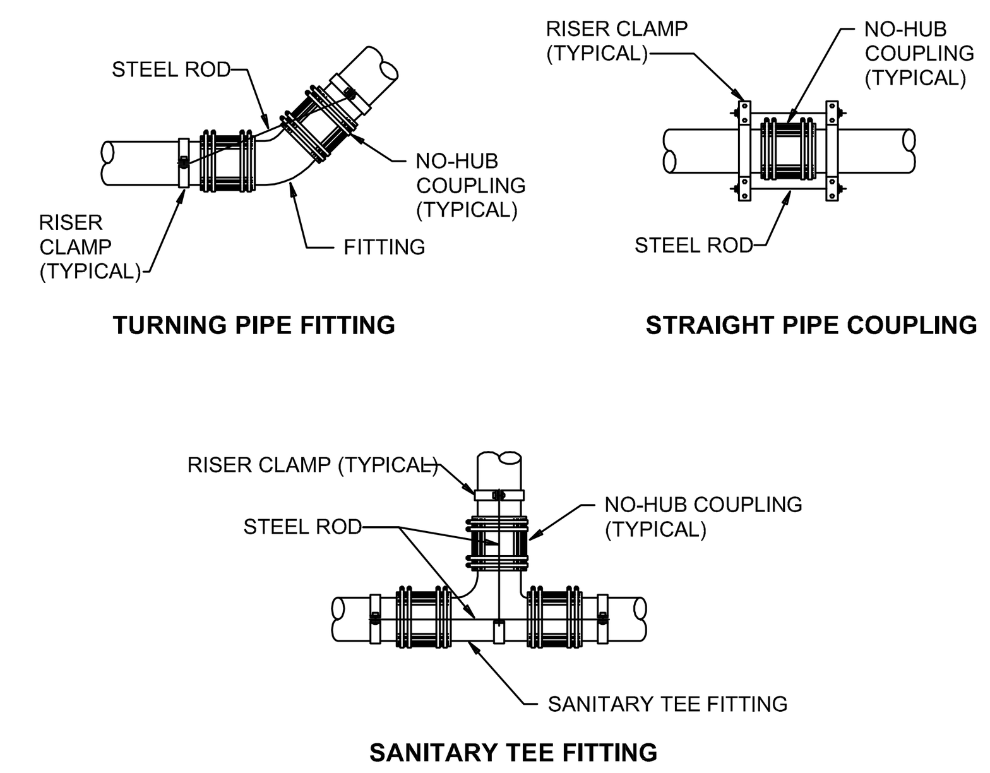
JCE NO. 2017.36 PRINTED:01/24/2025



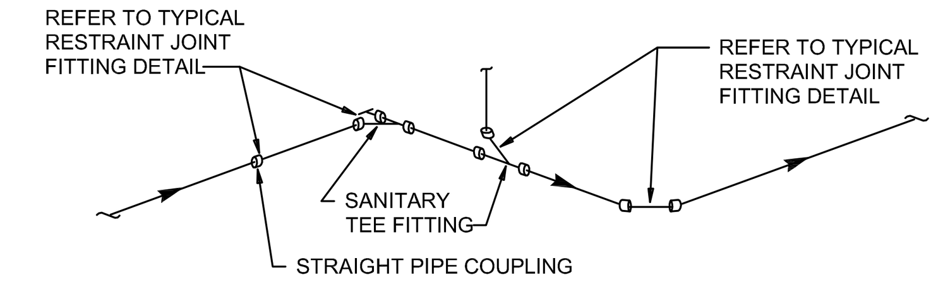
TYPICAL VENT CONNECTION TO HORIZONTAL DRAIN LINE DETAIL	SCALE: NONE	1



HORIZONTAL PIPE WITH SWAY BRACE DETAIL	SCALE: NONE	2

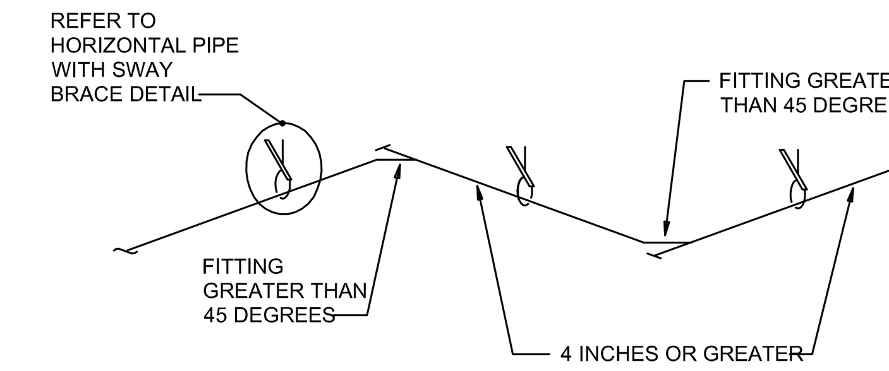


TYPICAL RESTRAINT JOINT FITTINGS DETAIL	SCALE: NONE	3



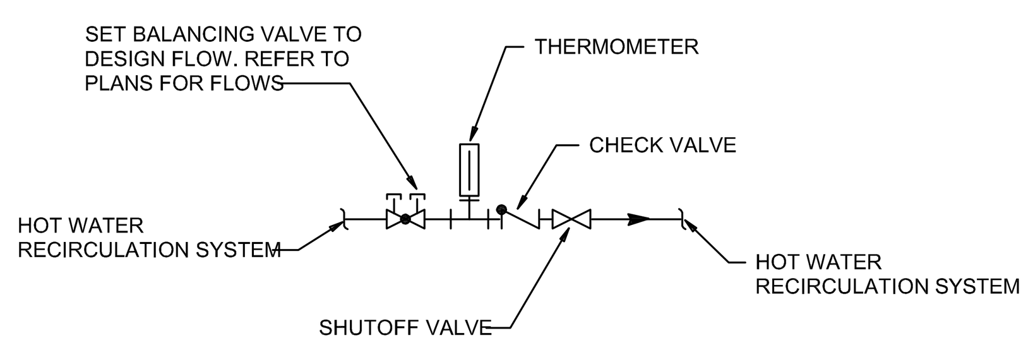
PROVIDE RESTRAINT JOINT BRACING ON ALL PIPE RUNS WITH NO-HUB COUPLING 4 INCHES OR GREATER

RESTRAINT JOINT BRACING DETAIL	SCALE: NONE	4



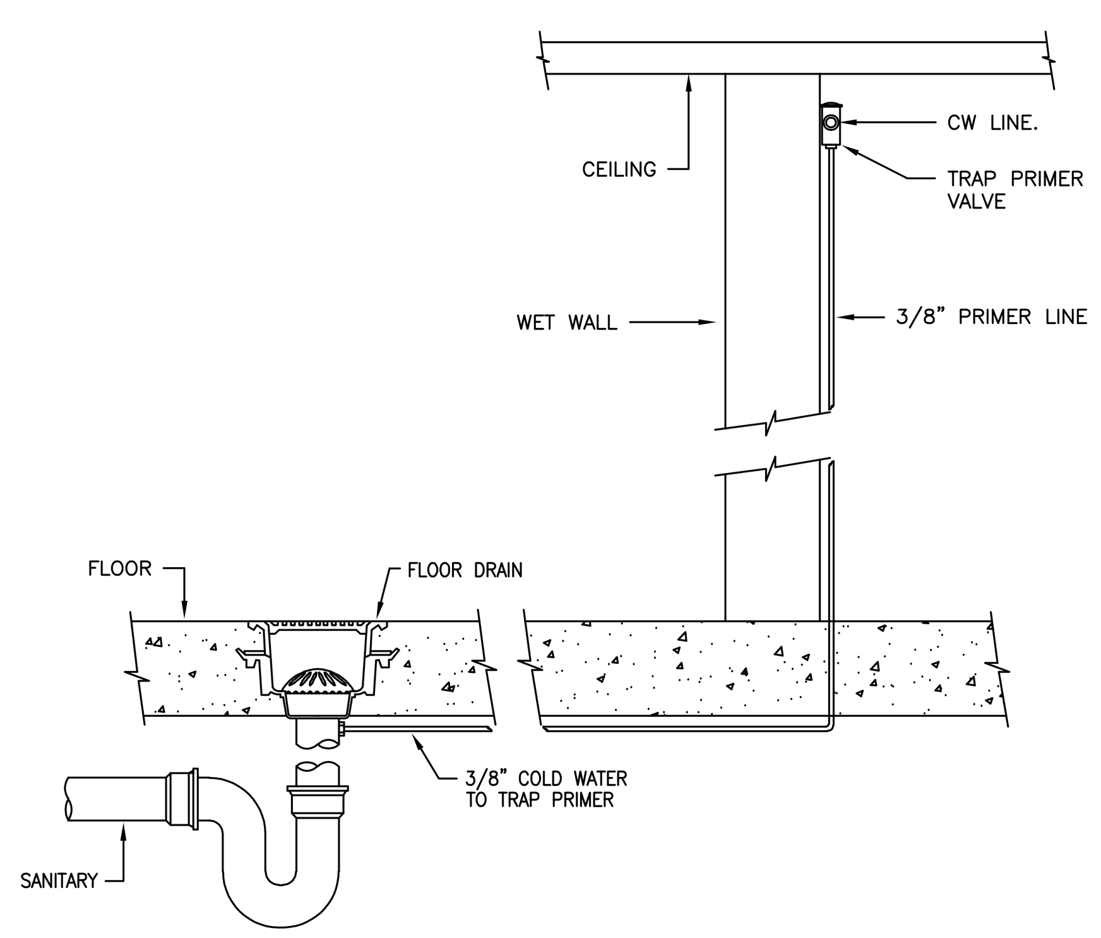
PROVIDE SWAY BRACING ON ALL PIPE RUNS 4 INCHES OR GREATER WHERE PIPING IS SUSPENDED 18 INCHES OR GREATER FROM BUILDING STRUCTURE OR WHERE PIPING CHANGE IN DIRECTION IS GREATER THAN 45 DEGREES.

RESTRAINT JOINT BRACING DETAIL	SCALE: NONE	5

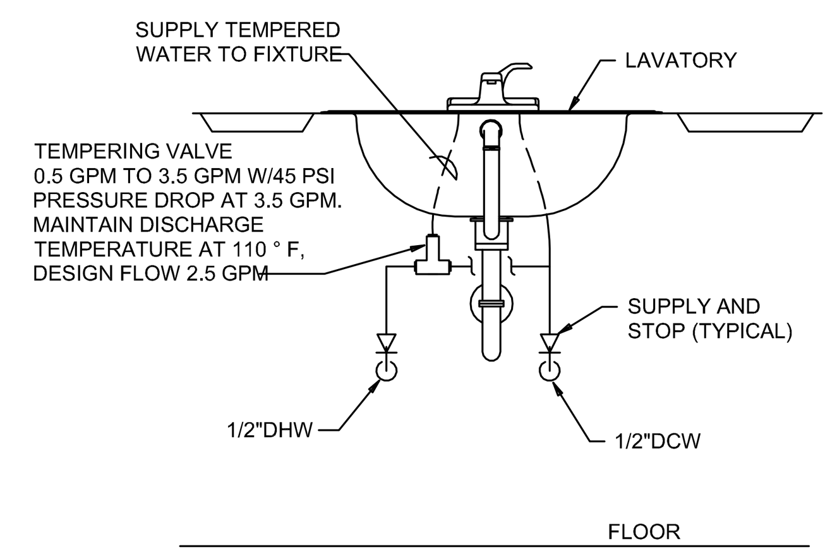


NOTES FOR BALANCING VALVE DETAIL:
1. CALEFFI THEROSETTER RECIRCULATING THERMAL BALANCING VALVE MODEL 116160AC001 UNIT IS INSTALLED WITH CHECK VALVE AND BALL VALVES ON THE INLET & OUTLET SIDE.

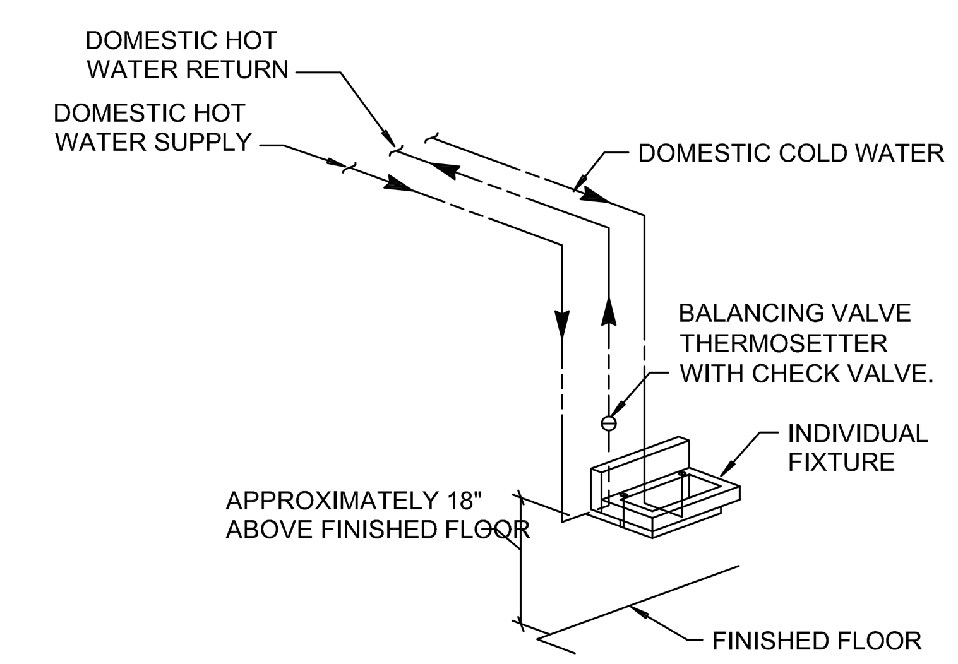
RECIRCULATING BALANCING VALVE DETAIL	SCALE: NONE	6



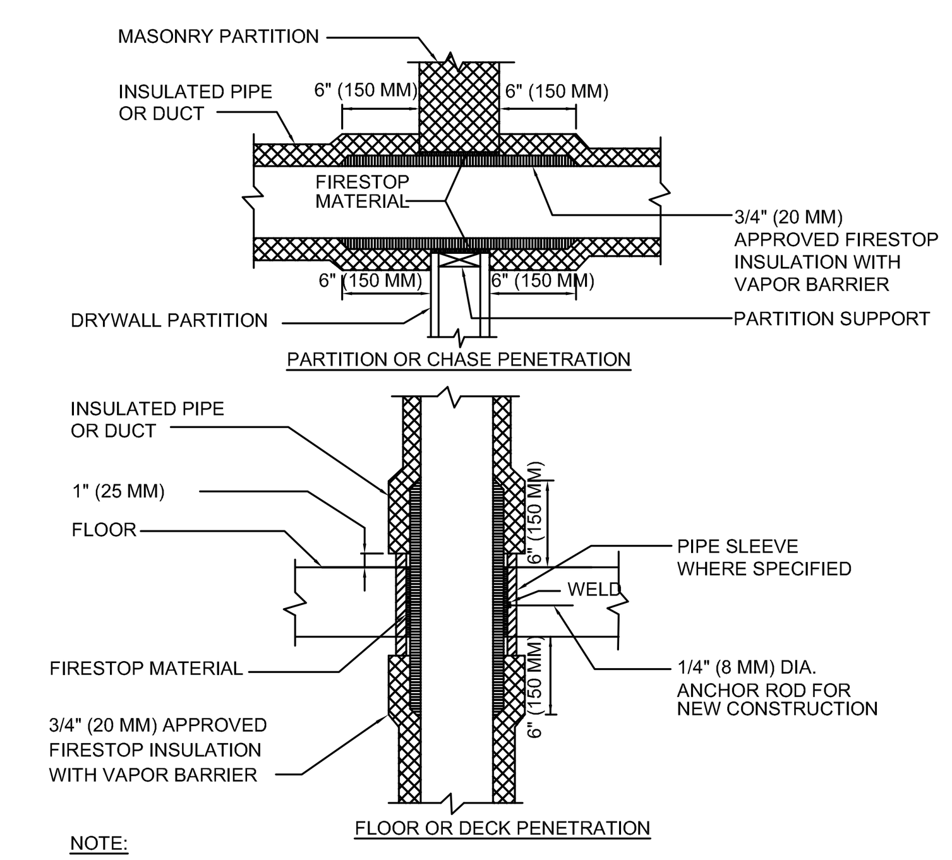
TRAP PRIMER DETAIL WITH TRAP PRIMER	SCALE: NONE	7



COMMON AREA LAVATORY TEMPERING VALVE DETAIL	SCALE: NONE	8

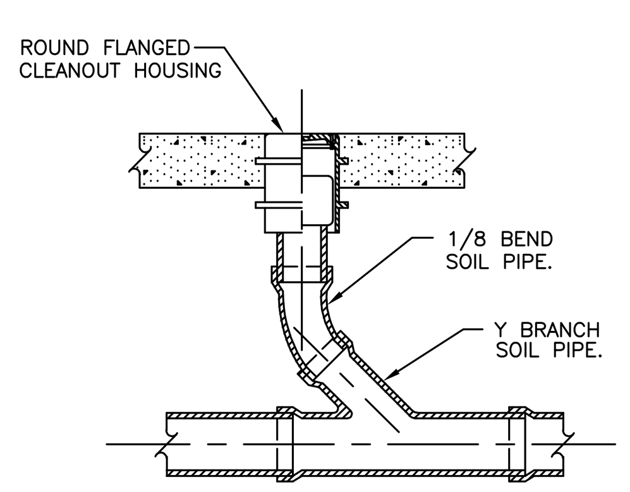


COMMON AREA INDIVIDUAL FIXTURE HOT WATER PIPING DETAIL	SCALE: NONE	9

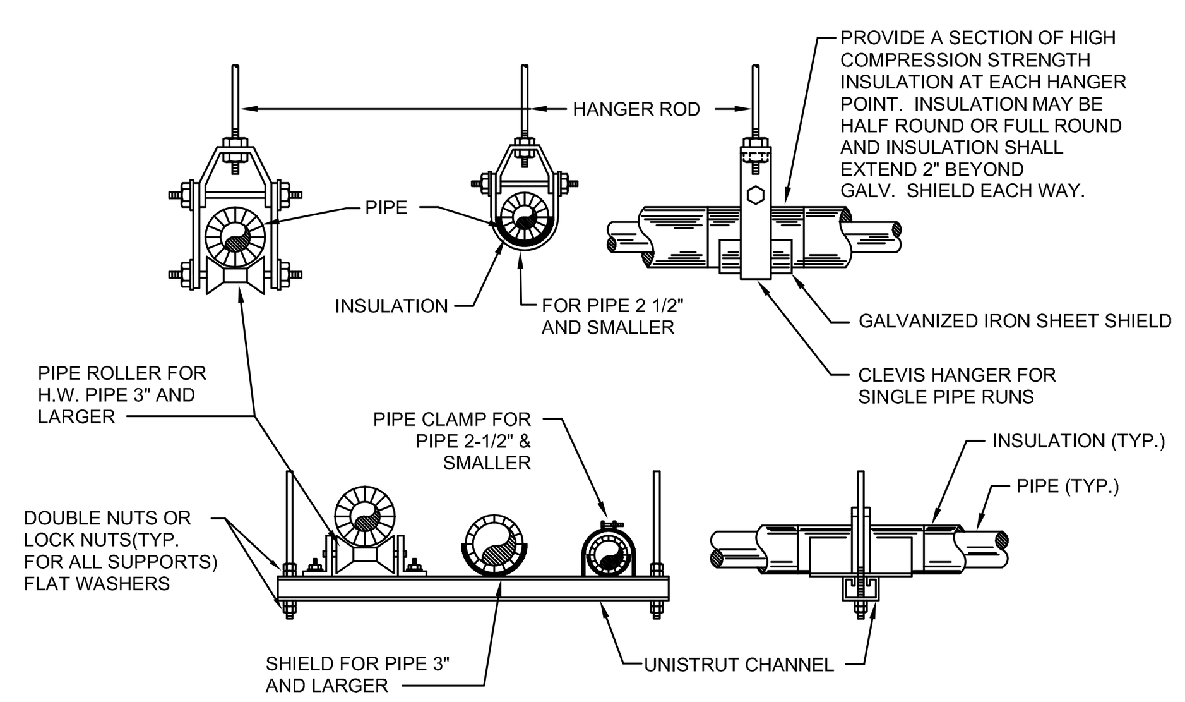


NOTE:
1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07270, FIRE STOPPING SYSTEMS.

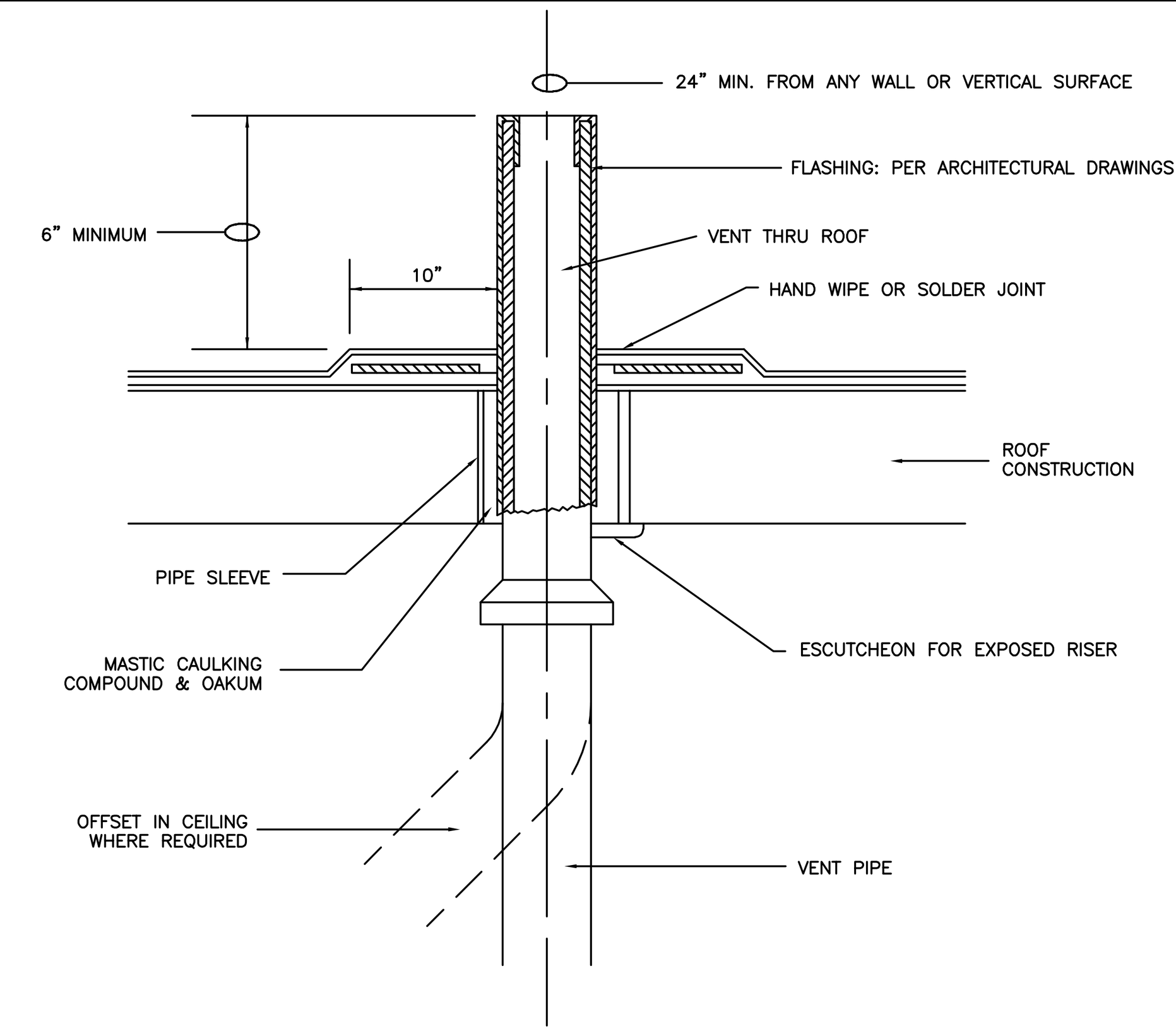
PIPE/DUCT PENETRATION OF FIRE/SMOKE BARRIERS	SCALE: NONE	10



SANITARY CLEANOUT FLOOR SLAB DETAIL	SCALE: NONE	12



WATER PIPING HANGER AND SUPPORTS DETAILS	SCALE: NONE	11



VENT THRU ROOF DETAIL	SCALE: NONE	13

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NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

PLUMBING DETAILS

3/12/26

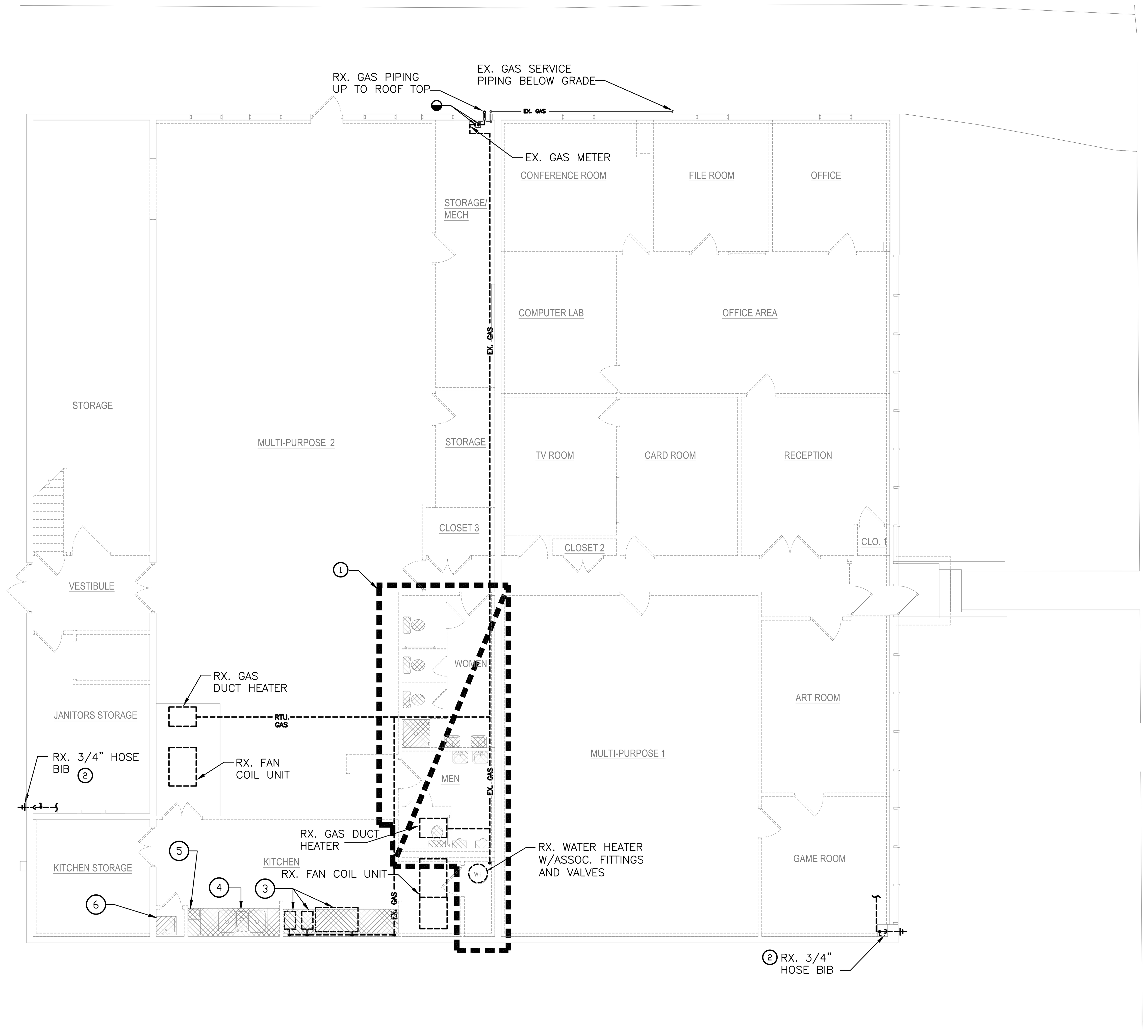
SHEET P002

GENERAL NOTES:

A. REFER TO DATA SHEET FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
B. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL SIZING OF UTILITIES AND PIPING.
C. FOR PLUMBING FIXTURES AND EQUIPMENT, REFER TO PLUMBING SCHEDULE SHEET.
D. DOMESTIC WATER PIPING IS LOCATED AT CEILING, UNLESS NOTED OTHERWISE.
E. SANITARY PIPING IS LOCATED BELOW FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE.
F. VENT PIPING IS LOCATED HIGH AND TIGHT TO THE UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.
G. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DOMESTIC WATER, GAS, VENTING AND SANITARY PIPING ROUTING BEFORE START OF DEMOLITION. CONTRACTOR SHALL VERIFY THE LOCATION AND FLOW DIRECTION OF THE EXISTING SANITARY PIPING.
H. CIVIL CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND FLOW DIRECTION OF THE EXISTING STORM WATER PIPING.

DEMOLITION DRAWING NOTES:

(1) REFER TO PARTIAL PLAN ON DRAWING PD-200 FOR DEMOLITION WORK IN THIS AREA.
(2) REMOVE EXISTING HOSE BIBB.
(3) REMOVE EXISTING GAS COOKING EQUIPMENT AND REMOVE EXISTING GAS PIPING BACK TO TERMINATION POINT.
(4) REMOVE EXISTING 3-COMPARTMENT SINK AND ASSOCIATED GREASE INTERCEPTOR. REMOVE EXISITNG HW AND CW CONNECTIONS AND CAP AT THE MAINS. REMOVE VENT PIPING AND SANITARY CONNECTIONS AND CAP AT MAINS.
(5) REMOVE EXISTING HAND SINK. PREPARE EXISTING WATER, SANITARY AND VENT CONNECTIONS TO SERVE THE NEW FIXTURE.
(6) REMOVE EXISTING MOP SINK. PREPARE EXISTING WATER, SANITARY AND VENT FIXTURE TO SERVE THE NEW FIXTURE.



FIRST FLOOR PLAN - PLUMBING DEMOLITION
SCALE:1/8"=1'-0"

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HARFORD SENIOR CENTER RENOVATIONS
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PROJECT NO. PRJ000889

PLUMBING FLOOR PLAN DEMOLITION

3/12/26

SHEET PD100

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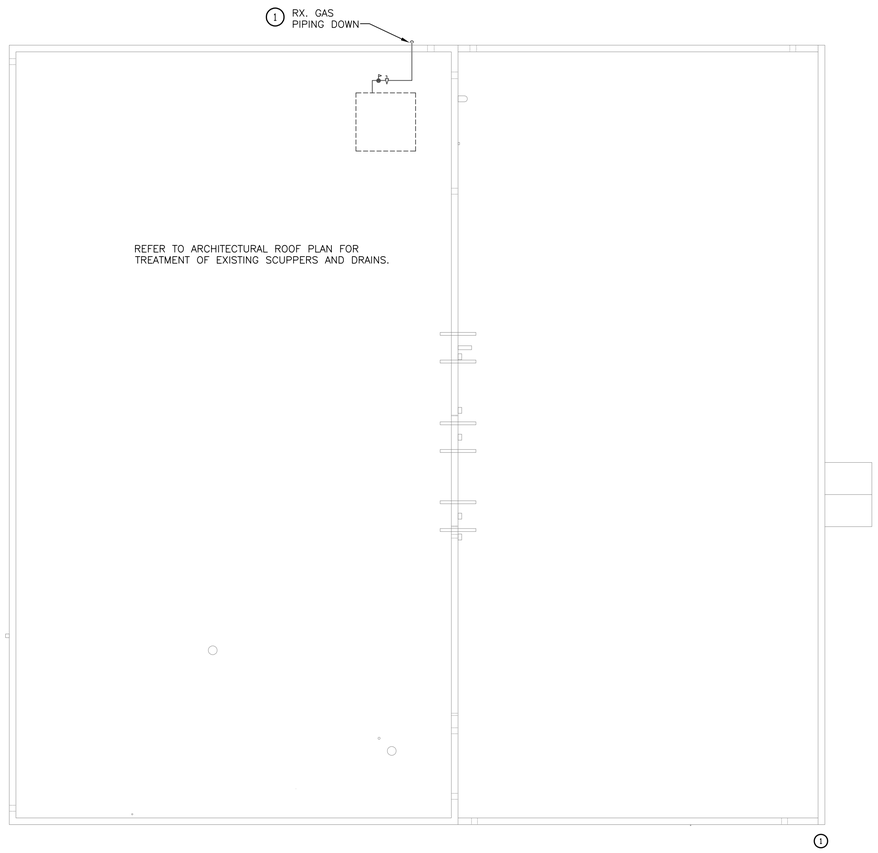
GENERAL NOTES:

A. REFER TO DATA SHEET FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
B. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL SIZING OF UTILITIES AND PIPING.
C. FOR PLUMBING FIXTURES AND EQUIPMENT, REFER TO PLUMBING SCHEDULE SHEET.
D. DOMESTIC WATER PIPING IS LOCATED ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
E. SANITARY PIPING IS LOCATED BELOW FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE.
F. VENT PIPING IS LOCATED HIGH AND TIGHT TO THE UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.

DEMOLITION DRAWING NOTE:

(1) REMOVE EXISTING GAS PIPING BACK TO THE METER



ROOF PLAN - PLUMBING DEMOLITION
SCALE: 1/8"=1'-0"

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HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

PLUMBING ROOF PLAN DEMOLITION

3/12/26

SHEET
PD101

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STATE OF MARYLAND
WILLIAM WASHINGTON
No. 16001
PROFESSIONAL ENGINEER

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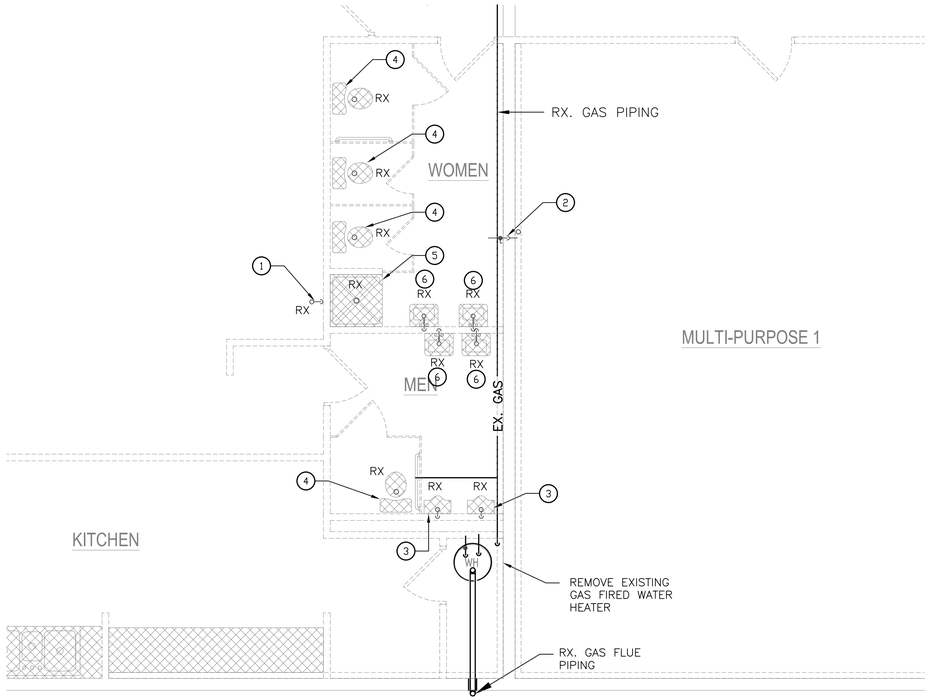

DEMOLITION DRAWING NOTES:

1. REMOVE EXISTING WALL MTD. WATER COOLER IN IT'S ENTIRETY TO INCLUDE DOMESTIC WATER SERVICE PIPING, SANITARY, WALL SUPPORTS AND VENT PIPING. CAP SANITARY PIPING AT TERMINATION POINT.
2. REMOVE EXISTING HOSE BIBB
3. REMOVE EXISTING WALL MTD. UNIRALS IN THEIR ENTIRETY TO INCLUDE DOMESTIC WATER SERVICE PIPING, SANITARY, WALL SUPPORTS AND VENT PIPING. CAP SANITARY PIPING AND DOMESTIC WATER AT TERMINATION POINT.
4. REMOVE EXISTING WATER CLOSET IN THEIR ENTIRETY TO INCLUDE DOMESTIC WATER SERVICE PIPING, SANITARY, AND VENT PIPING. CAP SANITARY PIPING BELOW FIN. FLOOR, REMOVE ALL DOMESTIC WATER BACK TO AT MAIN ABOVE CEILING.
5. REMOVE EXISTING SHOWER ENCLOSURE IN IT'S ENTIRETY TO INCLUDE DOMESTIC WATER SERVICE PIPING, SANITARY, AND VENT PIPING. CAP SANITARY PIPING BELOW FIN. FLOOR, REMOVE ALL DOMESTIC WATER BACK TO AT MAIN ABOVE CEILING.
6. REMOVE EXISTING LAVATORY IN IT'S ENTIRETY TO INCLUDE DOMESTIC WATER SERVICE PIPING, SANITARY, AND VENT PIPING. CAP SANITARY PIPING BELOW FIN. FLOOR, REMOVE ALL DOMESTIC WATER BACK TO AT MAIN ABOVE CEILING.

PLUMBING FLOOR PLAN - DEMOLITION PART PLAN

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

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HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

FIRST FLOOR-DEMOLITION PLUMBING PART PLAN

3/12/26

SHEET
PD200

37 OF 51

STATE OF MARYLAND
No. 16001
PROFESSIONAL ENGINEER

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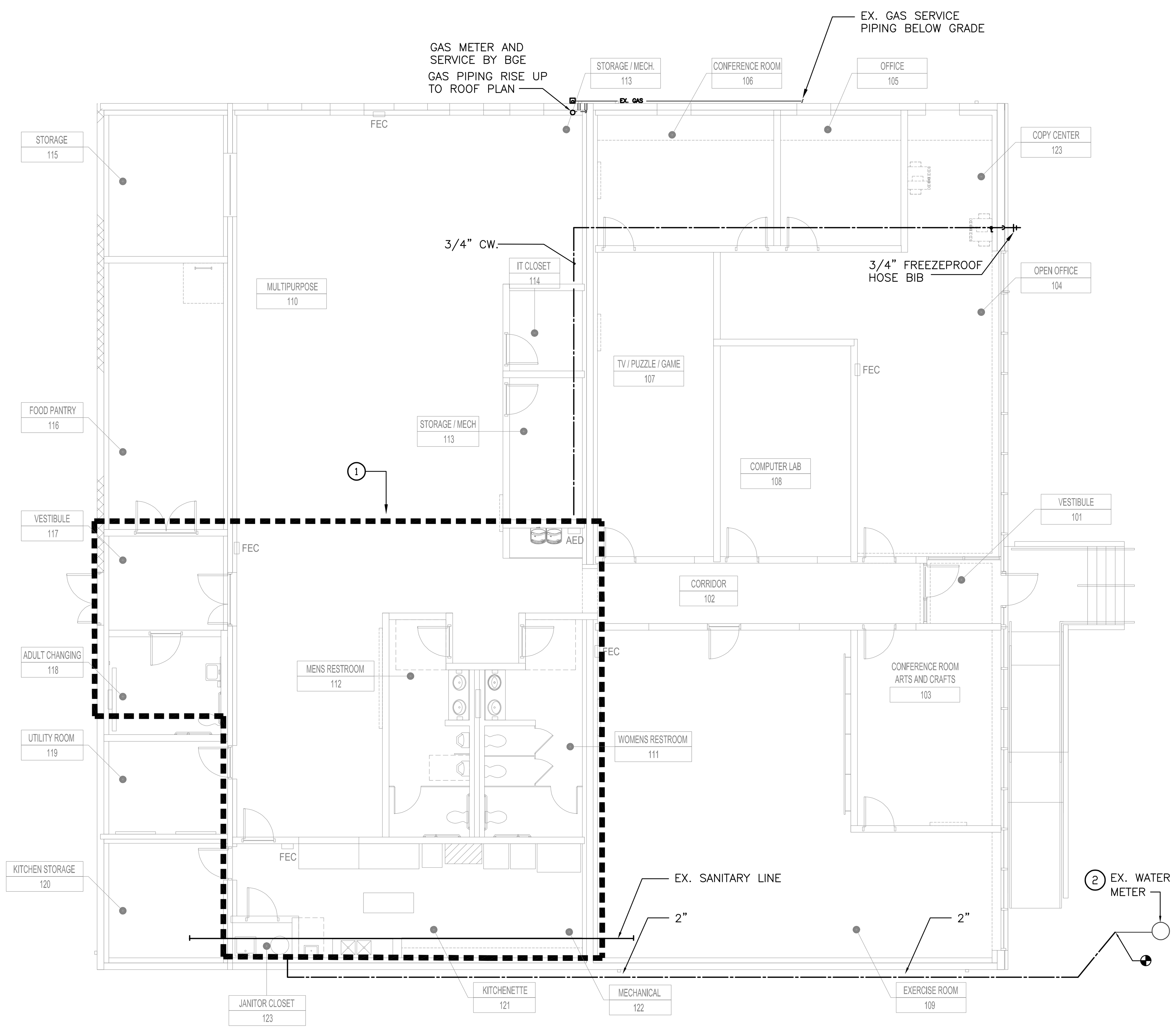

FIRST FLOOR PLAN - PLUMBING NEW WORK

SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO DATA SHEET FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
B. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL SIZING OF UTILITIES AND PIPING.
C. FOR PLUMBING FIXTURES AND EQUIPMENT, REFER TO PLUMBING SCHEDULE SHEET.
D. DOMESTIC WATER PIPING IS LOCATED ABOVE CEILING, UNLESS NOTED OTHERWISE.
E. SANITARY PIPING IS LOCATED BELOW FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE.
F. VENT PIPING IS LOCATED HIGH AND TIGHT TO THE UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.

DRAWING NOTE:

1. REFER TO PARTIAL PLAN DRAWING P-200 FOR NEW WORK TO THIS AREA.
2. CONTRACTOR TO FIELD VERIFY THE LOCATION OF THE WATER METER

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PROJECT NO. PRJ000889

PLUMBING FLOOR PLAN NEW WORK

3/12/26

SHEET P100

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GENERAL NOTES:

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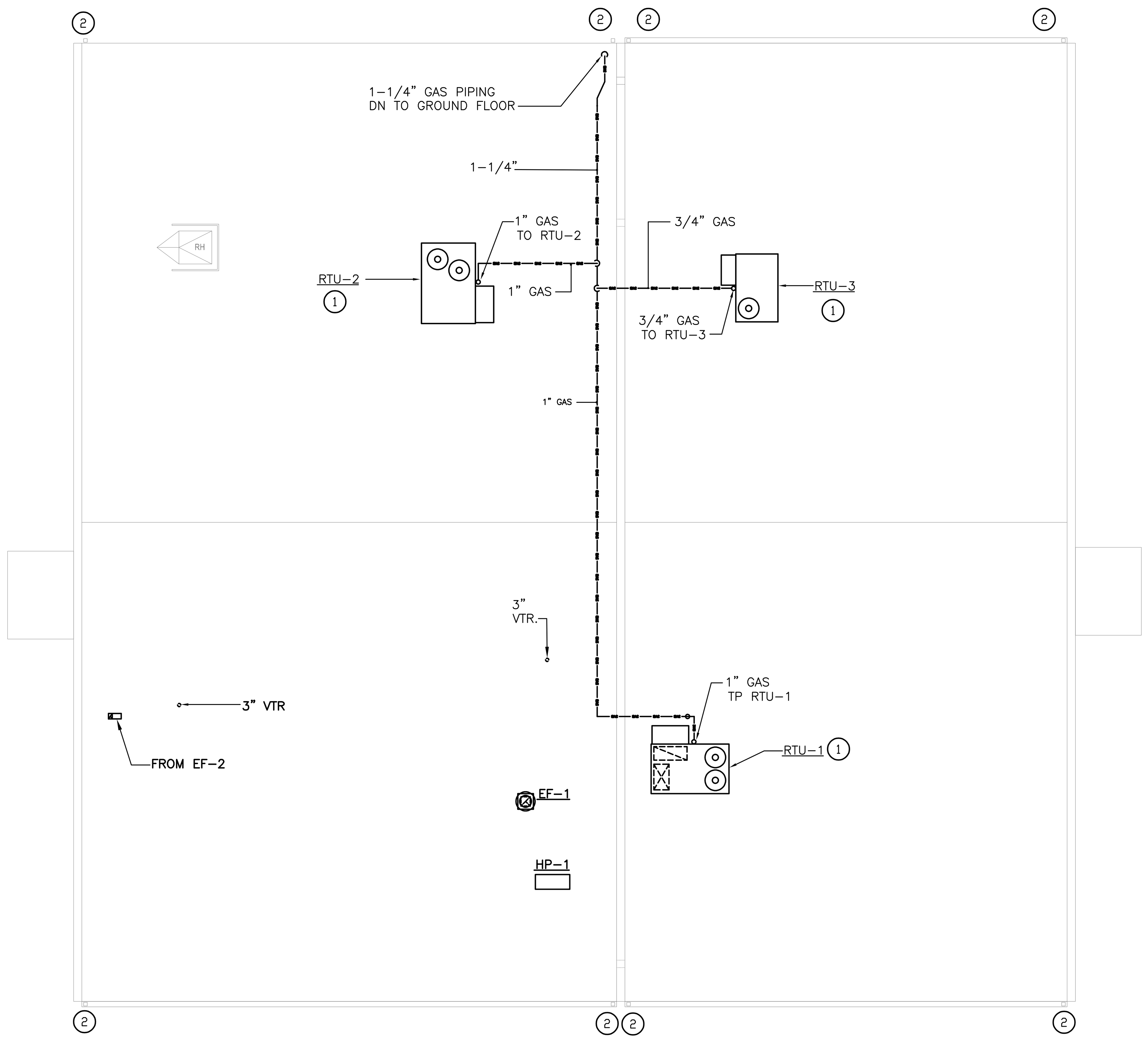
B. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL SIZING OF UTILITIES AND PIPING.
C. FOR PLUMBING FIXTURES AND EQUIPMENT, REFER TO PLUMBING SCHEDULE SHEET.
D. DOMESTIC WATER PIPING IS LOCATED AT CEILING, UNLESS NOTED OTHERWISE.
E. SANITARY PIPING IS LOCATED BELOW FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE.
F. VENT PIPING IS LOCATED HIGH AND TIGHT TO THE UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.

DRAWING NOTE:

(1) EXTEND CONDENSATE FROM ROOFTOP UNIT TO DISCHARGE OVER CONCRETE SPLASHBLOCK.

(2) NEW DOWNSPOUT CONNECTED TO EXISTING UNDERGROUND STORM WATER SYSTEM. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.



ROOF PLAN - PLUMBING NEW WORK

SCALE: 1/8"=1'-0"

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PROJECT NO. PRJ000889

PLUMBING
ROOF PLAN
NEW WORK

3/12/26

SHEET
P101

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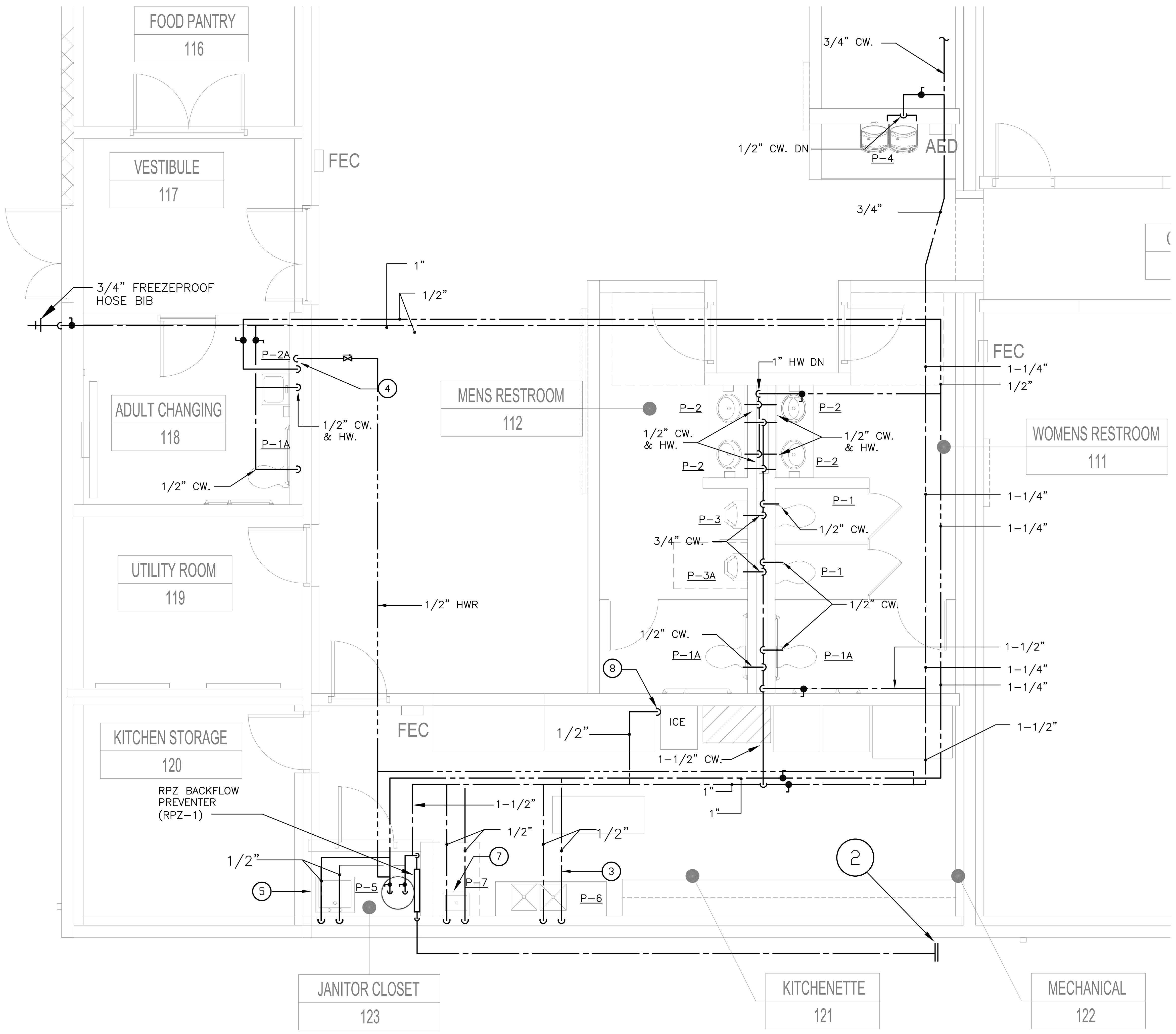
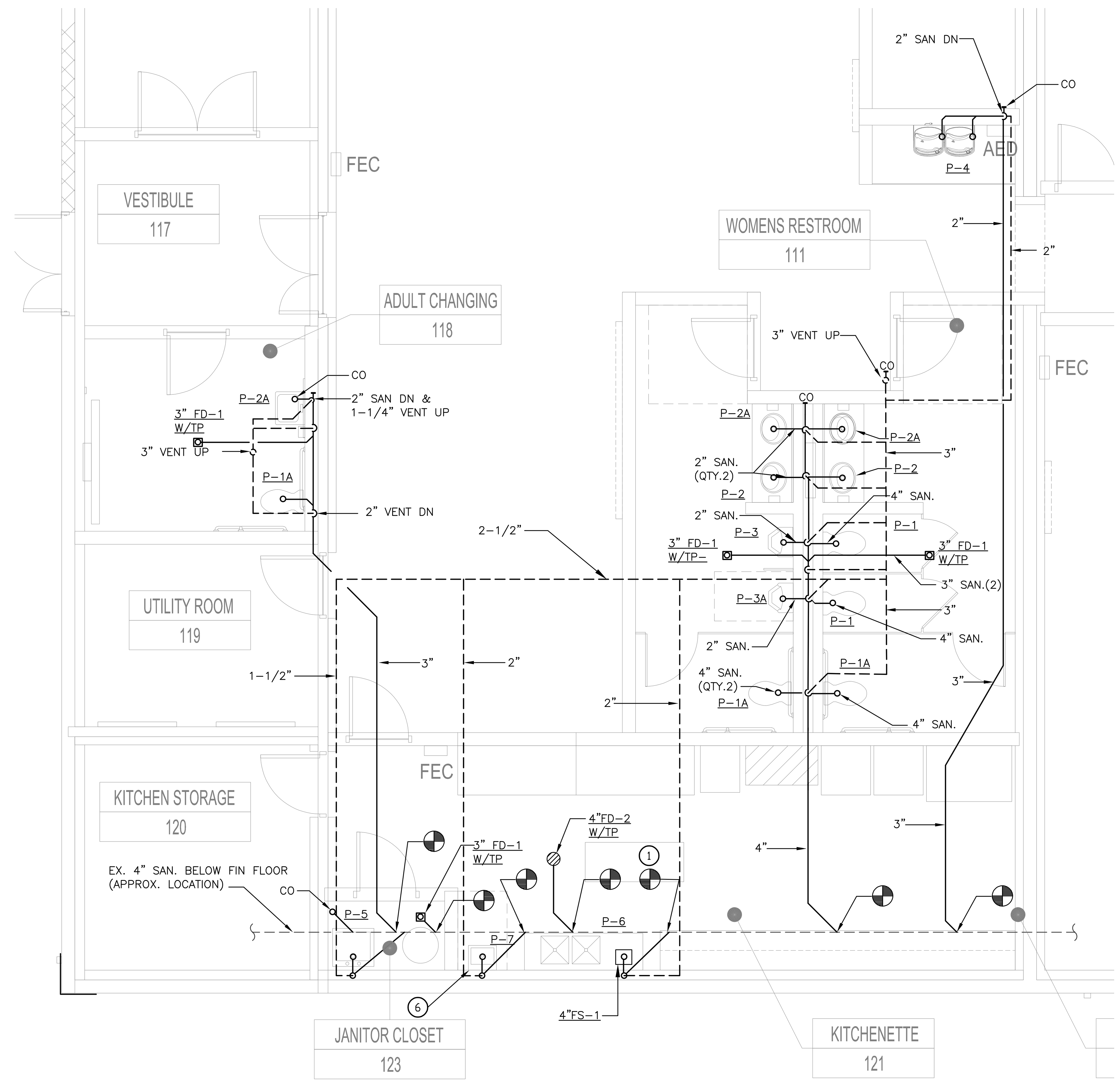


FIRST FLOOR PLAN - DOMESTIC WATER NEW WORK

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



FIRST FLOOR PLAN - SANITARY NEW WORK

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

GENERAL NOTES:

A. REFER TO DATA SHEET FOR PLUMBING SYMBOLS AND ABBREVIATIONS.
B. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL SIZING OF UTILITIES AND PIPING.
C. FOR PLUMBING FIXTURES AND EQUIPMENT, REFER TO PLUMBING SCHEDULE SHEET.
D. DOMESTIC WATER PIPING IS LOCATED ABOVE CEILING, UNLESS NOTED OTHERWISE.
E. SANITARY PIPING IS LOCATED BELOW FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE.
F. VENT PIPING IS LOCATED HIGH AND TIGHT TO THE UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.
G. DRAINS SHOWN ON FLOOR PLAN IS UNDERGROUND

NEW WORK DRAWING NOTES:

1. NEW DOUBLE COMPARTMENT SINK (P-6). EXTEND DRAIN FROM EACH BASIN TO DISCHARGE OVER NEW 4"FLOOR SINK (FS-1)
2. SEE SHEET P100 FOR CONTINUATION OF THE 2" WATER SERVICE
3. NEW DOUBLE COMPARTMENT SINK. CONNECT NEW 1/2" CW/HW PIPING
4. 1/2" HWR. DROP AND MAKE CONNECTION TO HW PIPING SERVING FIXTURE WITHIN 12" FROM FIXTURE.
5. JANITOR SINK (P-5). CONNECT NEW 1/2" CW/HW PIPING TO EXISTING SINK WATER CONNECTION POINTS.
6. JANITOR SINK (P-5). EXISTING SANITARY CONNECTIONS SHALL BE REUSED.
7. KITCHEN HAND SINK (P-7A). CONNECT NEW 1/2" CW/HW PIPING
8. NEW ICE MAKER. CONNECT NEW 1/2" CW PIPING
9. CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING METER

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HARFORD SENIOR CENTER RENOVATIONS

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PROJECT NO. PRJ000889

FIRST FLOOR- NEW WORK PLUMBING PART PLANS

3/12/26

SHEET P200

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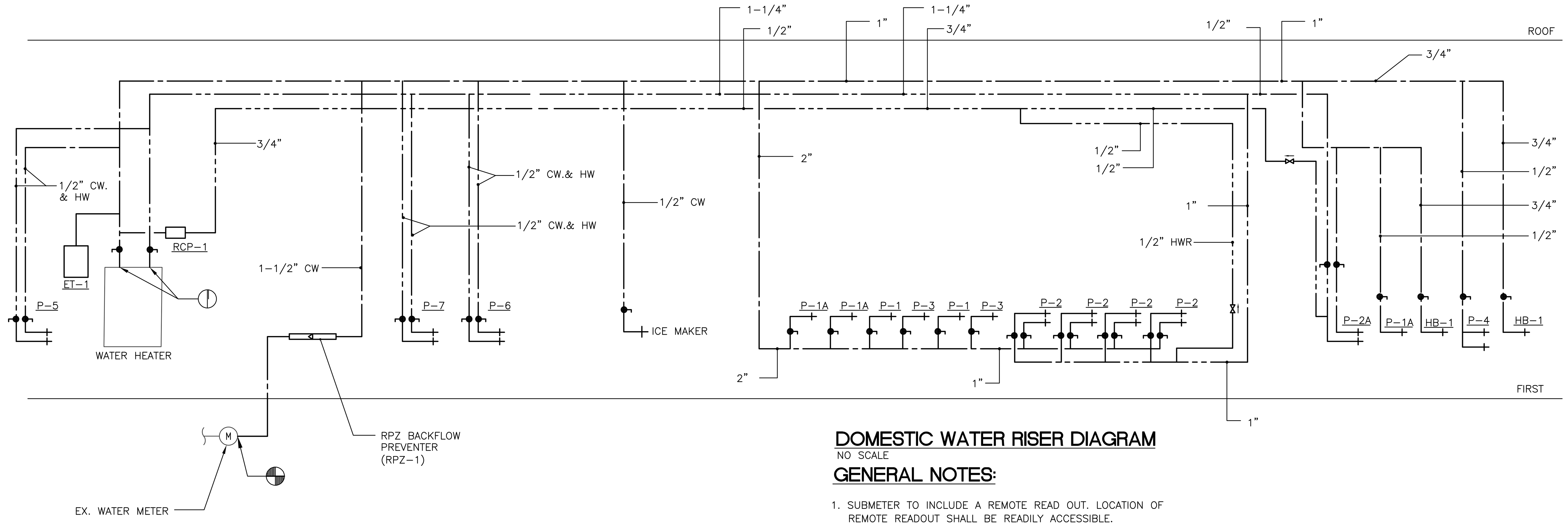
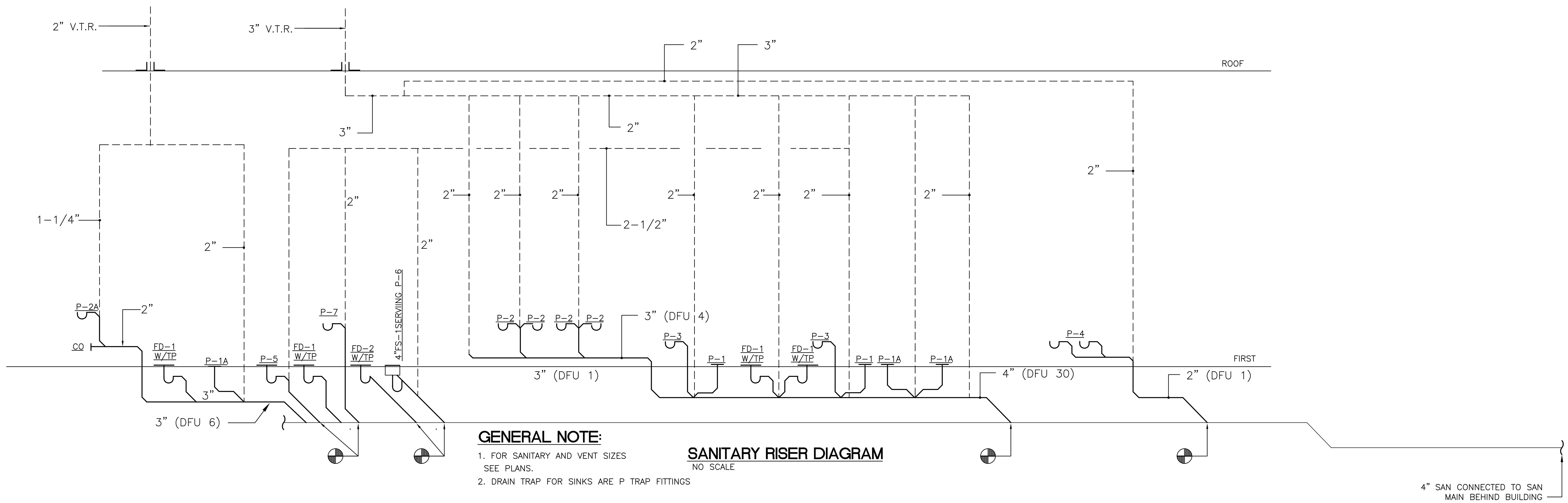


DOMESTIC WATER RISER DIAGRAM

NO SCALE

GENERAL NOTES:

1. SUBMETER TO INCLUDE A REMOTE READ OUT. LOCATION OF REMOTE READOUT SHALL BE READILY ACCESSIBLE.

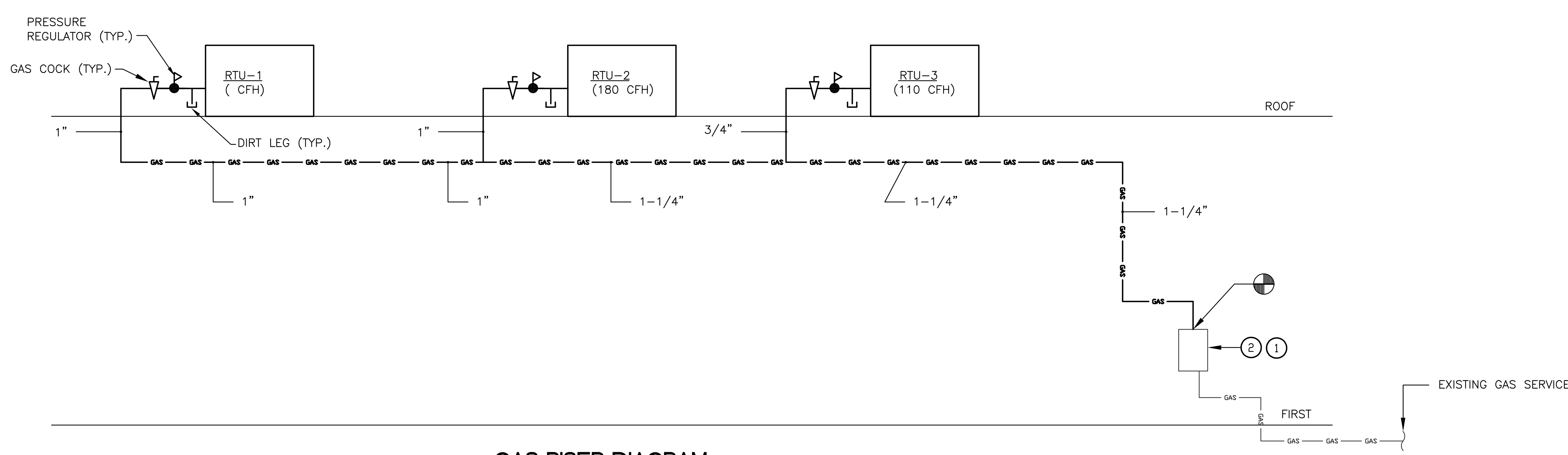


GENERAL NOTE:

1. FOR SANITARY AND VENT SIZES SEE PLANS.
2. DRAIN TRAP FOR SINKS ARE P TRAP FITTINGS

SANITARY RISER DIAGRAM

NO SCALE



GAS RISER DIAGRAM

NOT TO SCALE:

GAS SERVICE

GAS CALCULATIONS BASED ON (2018) INTERNATIONAL FUEL GAS CODE (IFGC) TABLE 402.4

ETR. INLET PRESSURE:	LESS THAN 2 PSI
PRESSURE DROP:	0.5 IN W.C.
SPECIFIC GRAVITY:	0.60
EQUIVALENT LENGTH:	115' PLUS OR MINUS
TOTAL LOAD	410 MBH

NOTES:

1. PRESSURE REGULATORS SHALL BE BASED ON EQUIPMENT MANUFACTURES REQUIREMENTS.

NEW WORK DRAWING NOTES:

1. OWNER SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS NEEDED TO GAS SERVICE BEFORE TENANT GAS METER.
2. EXISTING GAS METER.

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HARFORD SENIOR CENTER RENOVATIONS

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PROJECT NO. PRJ000889

PLUMBING RISER DIAGRAMS

3/12/26

SHEET P300

JCE NO. 2017.36 PRINTED:01/24/2025

ELECTRICAL LEGEND

X-1	HOMERUN TO DESIGNATED PANEL IN MINIMUM 3/4" CONDUIT WITH AN INSULATED GROUND WIRE. U.O.N. "X-1" INDICATES PANELBOARD AND CIRCUIT NO. RESPECTIVELY.
	CIRCUIT (IN MINIMUM 3/4"C, UON) CONCEALED IN WALL OR ABOVE CEILING WITH MINIMUM INSULATED GROUND WIRE (MINIMUM #12 AWG, UON) FOR EACH CONDUIT RUN #12 AWG WIRE. NO. OF HATCHES INDICATE NO. OF PHASE & NEUTRAL WIRES.
	20A, 125V, 2P, 3W GROUNDING TYPE COMBINATION DUPLEX RECEPTACLE WITH 2 USB POWER PORTS IN SUITABLE CONCEALED WALL MOUNTED BOX, MH 18" AFF, UON.
	20A, 125V, 2P, 3W GROUNDING TYPE COMBINATION DUPLEX RECEPTACLE WITH 2 USB POWER PORTS MOUNTED 8" ABOVE THE COUNTERTOP.
+	20A, 125V, 2P, 3W GROUNDING TYPE COMBINATION DUPLEX RECEPTACLE WITH 2 USB POWER PORTS IN SUITABLE CONCEALED WALL BOX MOUNTED 34" AFF.
	DOUBLE DUPLEX 20A, 125V, 2P, 3W GROUNDING TYPE COMBINATION RECEPTACLE WITH 2 USB POWER PORTS IN SUITABLE CONCEALED WALL MOUNTED BOX, MH 18" AFF, UON.
+	20A, 125V, 2P, 3W GFCI TYPE RECEPTACLE MH=18" AFF (+) INDICATE MH=6" COUNTER TOP OR 42"AFF (UNO)
	PROVIDE DATA OUTLET IN CONCEALED WALL BOX. MH=18" AFF., U.O.N. PROVIDE EMPTY 3/4" C WITH NYLON PULL LINE. FROM OUTLET BOX UP TO MINIMUM 12" ABOVE CEILING.
	TELEPHONE OUTLET IN CONCEALED WALL BOX, MH=18" AFF. PROVIDE EMPTY 3/4" C WITH NYLON PULL LINE. FROM OUTLET BOX UP TO MINIMUM 12" ABOVE CEILING. INDICATES TWO VOICE OUTLETS AND ONE DATA OUTLET.
2/40	DISCONNECT SWITCH IN NEMA TYPE-1 ENCLOSURE, NONFUSED, LOCKABLE HANDLE, AMP/VOLTAGE/POLE AS NOTED ON DRAWING. (2 POLE 60 SWITCH 40A FUSES)
	SINGLE SPECIAL RECEPTACLE. TYPE AS NOTED M.H.= 1'-6" AFF UNLESS NOTED OTHERWISE
	PANELBOARD 120/208V. WALL MOUNTED. TOP CB IN PANEL SHALL BE MAXIMUM 72" AFF.
M	WALL MOUNTED OCCUPANCY SENSOR, 20A,120-277V,1P MH = 48"AFF
$	20A,120-277V,1P TOGGLE SWITCH, MH = 48"AFF
$3	20A,1P,3WAY 120-277V TOGGLE SWITCH, MH = 48"AFF
$M	FRACTIONAL HORSE POWER MANUAL STARTER SWITCH MELTING ALLOY TYPE THERMAL OVERLOAD, 2 POLES, 125V WITH RED PILOT LIGHT IN NEMA 3R ENCLOSURE, WALL MOUNTED AT 48"AFF.
$D	20A,1P,3-WAY,120-277V DIMMER SWITCH, 1500 W, MH = 48" AFF.
	COMBINATION MAGNETIC MOTOR STARTER. FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL.
1	DENOTES DRAWING NOTES.
A	RECESSED LIGHTING FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE. CROSS HATCHING IN FIXTURE INDICATES A FIXTURE ON AN EMERGENCY CIRCUIT.
A	WALL MOUNTED LIGHTING FIXTURE. LETTER DESIGNATIONS CORRESPOND WITH LIGHTING FIXTURE SCHEDULE.
	UNIVERSAL MOUNTED EMERGENCY EXIT SIGN, CEILING MOUNTED, WALL MOUNTED.
A	2'X2' LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	2'X4' LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
J J	JUNCTION BOX - SURFACE OR CEILING MOUNTED - WALL MOUNTED (WEATHERPROOF WHERE USED OUTDOORS.
A	LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
X	4' LED FIXTURE. DIAGONAL LINE INDICATED FIXTURE WITH INTEGRAL BATTERY PACK. UPPER CASE LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	ELECTRICAL MOTOR
	EXHAUST FAN
B	RING CAMERA AND DOOR BELL SYSTEM
SD	SMOKE DETECTOR, CEILING MOUNTED.
HD	HEAT DETECTOR, CEILING MOUNTED.
M	ELECTRIC COMPANY METER.
	FIRE ALARM AUDIO/VISUAL DEVICE WALL MOUNTED MH=72"AFF.
F	COMBINATION FIRE ALARM PULL STATION WITH AUDIO/VISUAL DEVICE. PULL STATION MH=48"AFF, AUDIO/VISUAL DEVICE MH=72" AFF.
F	FIRE ALARM PULL STATION, MOUNTING HEIGHT = 48" AFF.
FAAP	FIRE ALARM GRAPHIC ANNUCIATOR PANEL MH = 72" TO TOP OF PANEL.
FACP	FIRE ALARM CONTROL PANEL, MH=72" TO TOP OF PANEL 8 ZONES, 120V.1ø, (EXPANDABLE TO 32 ZONES). ALL WIRING ACCESORIES SHALL BE PROVIDED PER MANUFACTURER'S INSTRUCTIONS. FACP SHALL BE SIMPLEX- MODEL #4005 OR EQUIVALENT. CONTRACTOR SHALL PROVIDE SHOP DRAWING WITH ALL WIRING & ACCESSORIES PER NFPA 72 FOR APPROVAL.
DD	DUCT SMOKE DETECTOR
	TELEPHONE BACKBOARD, 3/4"THK. X 48"W. X 48"H. U.O.N.
	20A, 125V, 2P, 3W GROUNDING TYPE COMBINATION DUPLEX RECEPTACLE WITH 2 USB POWER IN SUITABLE CONCEALED FLUSH FLOOR BOX OR DATA AND RECEPTACLE COMBINATION.
D D	DATA JUNCTION BOX - SURFACE OR CEILING MOUNTED - WALL MOUNTED (WEATHERPROOF WHERE USED OUTDOORS.
	EMERGENCY WALL PACK (DEMOLITION)
A	FLUORESCENT FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	CEILING MOUNTED CAMERA.
TC	TIME CLOCK.

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL BE IN CONFORMITY WITH THE APPLICABLE CURRENT STANDARDS, RULES, REGULATIONS, AND SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:
-NFPA 70 (NATIONAL ELECTRICAL CODE)
-NFPA 101 (LIFE SAFETY CODE)
-NBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
-ADA (AMERICANS WITH DISABILITIES ACT)
-NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
-IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
-ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE}
-ALL LOCAL AUTHORITIES HAVING JURISDICTION

2. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS AS REQUIRED TO MEET THE DESIGN INTENT OF THESE DOCUMENTS. COORDINATE WITH FIELD CONDITIONS AT THE JOB SITE AND ALL OTHER TRADES TO DETERMINE ALL ELECTRICAL CONNECTIONS THAT MAY BE REQUIRED. ALL ELECTRICAL MATERIAL AND WORK SHALL HAVE A MINIMUM ONE YEAR GUARANTEE PERIOD TO BEGIN AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION.

4. ALL WIRING INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE RATED FOR SUCH AN APPLICATION.

5. INSTALL CONDUIT AND JUNCTION BOXES CONCEALED IN FINISHED SPACES.

6. CONTRACTOR SHALL IDENTIFY SOURCE OF POWER FOR EACH PANEL PER NEC 2020, SECTION 408.4(B) SOURCE OF SUPPLY. ALL SWITCHBOARDS, SWITCHGEAR, AND PANEL BOARDS SUPPLIED BY A FEEDER(S) IN OTHER THAN ONE- OR TWO-FAMILY DWELLINGS UNITS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. THE LABEL SHALL BE PERMANENTLY AFFIXED, OF SUFFICIENT DURABLELITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN.(TYP. FOR ALL PANELS. PROVIDE-"FEED FROM". ALL EQUIPMENT SHALL BE UL LISTED AND LABELED.

7. ALL CONDUCTORS SHALL BE IDENTIFIED. ALL CONDUCTORS SHALL BE COPPER WITH 600V INSULATION. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOUD COPPER WITH TYPE THHN/THWN, 90*C INSULATION. ALL CONDUCTORS 8 AWG AND LARGER SHALL BE STRANDED COPPER WITH TYPE THHN/THWN INSULATION RATED AT 9CTC. AMPACITY OF CONDUCTORS SHALL BE AT 75*C RATING OR RATING OF TERMINATION, WHICHEVER IS LESS.

8. ELECTRICAL CONTRACTOR MAY UTILIZE TYPE MC CABLE IN LIEU OF CONDUIT AND WIRE IN INTERIOR. DRY, FURRED LOCATIONS WHEN PERMITTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

9. PROVIDE "HACR" CIRCUIT BREAKERS FOR HVAC EQUIPMENT.

10. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING FOR CORRECT PHASING WITHIN THE PANELS THEMSELVES. DO NOT INSTALL MORE THAN (3) SINGLE PHASE CIRCUITS WITHIN ANY ONE CONDUIT. AT COMPLETION OF WORK, ALL PANELS SHALL BE LOAD BALANCED UNDER NORMAL OPERATING CONDITIONS; PROVIDE TYPEWRITTEN PANEL DIRECTORY FOR ALL PANELBOARDS. DIRECTORY SHALL INCLUDE TYPE OF LOAD SERVED AND ROOM NUMBERS OF CIRCUIT LOCATION.

11. THE QUANTITY OF WIRES FOR CIRCUITS SHALL BE AS INDICATED AT THOSE AREAS WHERE CLARIFICATION IS REQUIRED IN ORDER TO INSURE THE PROPER OPERATION OF THE SYSTEM.

12. WIRING SHALL BE #12 AWG MINIMUM UNLESS OTHERWISE INDICATED; CONDUIT SHALL BE EMT WITH COMPRESSION FITTINGS, 3/4* MINIMUM SIZE UNLESS OTHERWISE INDICATED.

13. COORDINATE ALL LIGHT FIXTURE TYPES WITH THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE TWO, CONTACT THE ARCHITECT PRIOR TO THE PURCHASE OF ANY FIXTURES. VERIFY COMPATIBILITY WITH FINISHES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY.

14. THE ELECTRICAL PLANS ARE DIAGRAMMATIC IN NATURE; DIMENSIONS SHOWN ARE AT A MINIMUM. ALL WRITTEN DIMENSIONS ON THESE PLANS SHALL TAKE PRIORITY OVER SCALED DIMENSIONS. CONTACT ARCHITECT SHOULD THERE BE ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. SHOULD EXACT DIMENSIONS BE REQUIRED, REFER TO THE ARCHITECTURAL PLANS.

15. MOUNTING HEIGHTS OF DEVICES. UNLESS NOTED OTHERWISE, ARE TO THE CENTERLINE OF THE EQUIPMENT. THE EXCEPTION TO THIS IS LIGHTING FIXTURES; MOUNTING HEIGHTS INDICATED ARE TO THE BOTTOM OF THE FIXTURE. COORDINATE ALL MOUNTING HEIGHTS OF THE VARIOUS DEVICES IN ORDER TO PROVIDE FOR A FINAL INSTALLATION THAT IS CONSISTENT THROUGHOUT THE SPACE.

16. ANY CUTTING AND PATCHING SHALL BE PERFORMED IN A MANNER THAT IS ACCEPTABLE TO THE ARCHITECT AND SHALL MATCH THE SURROUNDING SURFACES.

17. VERIFY DOOR SWINGS PRIOR TO LIGHT SWITCH INSTALLATION. GENERALLY, INSTALL SWITCHES ON LATCH SIDE OF DOOR.

18. GANG MULTIPLE SWITCHES UNDER ONE COVER PLATE.

19. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL OUTLETS. SWITCHES, AND LIGHTING FIXTURES; DO NOT USE ENGINEERING PLANS FOR LOCATING DEVICES. SHOULD A CONTRACTOR PLACE A DEVICE BASED ON THE ENGINEER'S PLANS AND IT IS NOT LOCATED AS PER THE ARCHITECT'S PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS RELOCATION AT HER/HIS COST.

20. OUTLET BOXES SHALL BE INSTALLED SUCH THAT THEY ARE NOT BACK-TO-BACK; PROVIDE AN 8" MINIMUM OFFSET. ALL ELECTRICAL OUTLETS SHALL HAVE A TAG BEHIND THE COVERPLATE INDICATING THE PANELBQARD AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.

21. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT. IF APPROVED SUBMITTALS ARE FOR EQUIPMENT THAT DIFFERS WITH WHAT WAS SPECIFIED BY THE DESIGN ENGINEER, THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR INSURING THAT THIS EQUIPMENT IS EQUIVALENT TO THE ORIGINAL SPECIFIED EQUIPMENT AND ANY ADDITIONAL WORK OR COST AS A RESULT OF USING DIFFERING EQUIPMENT SHALL BE ABSORBED BY THE CONTRACTOR.

22. THE ELECTRICAL SYSTEM SHALL BE FULLY GROUNDED; PROVIDE SEPARATE GROUND WIRE IN FEEDER AND EACH BRANCH CIRCUIT WHETHER INDICATED ON THE PLANS OR NOT.

23. WIRING FOR 20A BRANCH CIRCUITS SHALL BE SIZED AS INDICATED BELOW.

120V		277V	
CIRCUIT LENGTH (FT.)	AWG	CIRCUIT LENGTH (FT.)	AWG
0-75	#12	0-150	#12
75-150	#10	151-300	#10
151-200	#8	301-400	#8

24. WORK AREA SHALL BE LEFT CLEAN AT THE END OF EACH BUSINESS DAY.

25. ALL PENETRATIONS OF FIRE RATED WALL ASSEMBLES SHALL BE PROTECTED WITH AN APPROVED FIRESTOP SYSTEM OR IN ACCORDANCE WITH IBC SECTION 712.3.1 WHERE APPLICABLE.

26. ALL PANELBOARD BUSSES AND GROUND BARS SHALL BE COPPER. BUS BAR SIZE SHALL BE BASED ON CURRENT DENSITY OF 1000A PER SQUARE INCH OF CROSS SECTIONAL AREA. PANELBOARDS SHALL BE FULLY RATED. CIRCUIT BREAKER SHALL BE BOLT ON TYPE. SUB-FEED CIRCUIT BREAKERS ARE NOT ACCEPTABLE.

27. ALL DISCONNECT SWITCH CURRENT CARRYING COMPONENTS SHALL BE COPPER.

28. THE CONTRACTOR SHALL VERIFY THAT ALL THE LIGHTING FIXTURES, RECEPTACLES, DEVICES, WIRING, EQUIPMENT, AND THEIR INSTALLATION COMPLY WITH ALL THE NEC AND LOCAL CODE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION AND OCCUPANCY REQUIREMENTS FOR THIS PROJECT. PROVIDE HANGERS AS REQUIRED BY CODE.

29. THE CONTRACTOR SHALL FURNISH AND INSTALL THE LIGHTING FIXTURES AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN. IF THERE IS NO ARCHITECTURAL REFLECTED PLAN, CONTRACTOR SHALL COORDINATE LOCATION OF FIXTURES SHOWN ON THE ELECTRICAL PLANS WITH ARCHITECT AND OTHER TRADES AND FIELD CONDITIONS.

30. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LAMPS REQUIRED (ALL LAMPS FOR SIMILAR FIXTURES SHALL MATCH). VERIFY MANUFACTURER AND MODEL OF BASE BUILDING FIXTURES WITH THE BUILDING OWNER'S REPRESENTATIVE.

31. THE FINAL LOCATION OF SWITCHES, OUTLETS AND OTHER DEVICES SHALL BE FIELD COORDINATED AND SHALL MEET ALL LOCAL CODE REQUIREMENTS (INCLUDING ALL HANDICAPPED CODES AND ADA REQUIREMENTS).

32. THE CONTRACTOR SHALL BE RESPONSIBLE£ FOR TESTING ALL CIRCUITS. LIGHTING FIXTURES, OUTLETS AND ALL OTHER DEVICES FOR THEIR PROPER OPERATION (INCLUDING ALL GROUNDING).

33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND PERFORMING ALL TEST AND INSPECTIONS REQUIRED BY THE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

34. THE CONTRACTOR SHALL REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL LIGHTING FIXTURES, RECEPTACLES, DEVICES AND EQUIPMENT, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE, PARTS, AND ACCESSORIES REQUIRED FOR THEIR PROPER INSTALLATION AND OPERATION (INCLUDING ALL PARTS, ACCESSORIES, AND SAFETY DEVICES REQUIRED BY CODE).

35. THE CONTRACTOR SHALL REFER TO ALL DRAWINGS, DETAILS, AND SPECIFICATIONS RELATED TO THIS PROJECT FOR ADDITIONAL REQUIREMENTS.

36. THE CONTRACTOR SHALL INSTALL ALL WIRING AND CONDUIT CONCEALED IN PARTITIONS AND ABOVE THE CEILING, UNLESS OTHERWISE INDICATED.

37. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH ALL FIELD CONDITIONS AT THE JOB-SITE AND ALL OTHER TRADES INVOLVED. PROVIDE POWER SOURCE IDENTIFICATION LABEL ON MECHANICAL EQUIPMENT. SEE NOTE 6 FOR DETAILS OF LABELS.

38. ALL WIRING, CONDUIT, AND JUNCTION BOXES SHALL BE COLOR CODED, IDENTIFIED, AND LABELED. ALL WORK AND INSTALLATION SHOWN ON THESE DRAWINGS SHALL BE DONE BY A LICENSED CONTRACTOR WITH EXPERIENCE IN THE TYPE OF WORK REQUIRED FOR THIS PROJECT.

39. THE CONTRACTOR SHALL COORDINATE THE MANUFACTURER, MODEL, COLOR AND FINISH FOR ALL NEW RECEPTACLES, OUTLETS AND COVERPLATES WITH THE ARCHITECT (UNLESS A SPECIFIC COLOR CODING IS REQUIRED BY CODE).

40. ALL PANELS AND CIRCUIT BREAKER CAPACITY RATINGS AND THEIR CONSTRUCTION SHALL MEET ALL LOCAL CODE REQUIREMENTS.

41. THE CONTRACTOR SHALL IDENTIFY AND LABEL ALL CIRCUITS.

42. COORDINATE THE LOCATION AND INSTALLATION OF EXIT SIGN LIGHTING FIXTURES AT THE JOB-SITE AS REQUIRED TO INDICATE THE EXIT PATH AS REQUIRED BY CODE AND TO ASSURE PROPER VISIBILITY.

43. PROVIDE CAST METAL JUNCTION BOXES AND CONDUIT FOR CIRCUITS BEING INSTALLED IN EXPOSED VISIBLE LOCATIONS.

45. PROVIDE CAST METAL JUNCTION BOXES AND CONDUIT WITH PULL STRING FOR TELEPHONE AND DATA CIRCUITS BEING INSTALLED IN EXPOSED VISIBLE AREAS.

ELECTRICAL ABBREVIATIONS

(ETR)	EXISTING TO REMAIN	KVA	KILOVOLT AMPS
(N)	NEW	KW	KILOWATT
(RX)	REMOVE	LTG	LIGHTING
(TBR)	EXISTING TO BE RELOCATED	MAX	MAXIMUM
(E)	RELOCATION POINT	MCB	MAIN CIRCUIT BREAKER
A, AMP	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ALTERNATING CURRENT	MECH	MECHANICAL
AF	AMP FRAME	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AT	AMP TRIP	N/A	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	N	NEUTRAL
BKR	BREAKER	NC	NORMALLY CLOSED
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
C, COND	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
CLG	CEILING	NF	NON-FUSABLE
DIA	DIAMETER	NFSS	NON-FUSED SAFETY SWITCH
DISC	DISCONNECT	NO	NORMALLY OPEN
DN	DOWN	NTS	NOT TO SCALE
DWG	DRAWING	ø	PHASE
EC	EMPTY CONDUIT	P	POLE
ECB	ENCLOSED CIRCUIT BREAKER	PNL	PANELBOARD
EG	EQUIPMENT GROUND	PRI	PRIMARY
ELEC	ELECTRICAL	QTY	QUANTITY
EMERG	EMERGENCY	REC, RECEPT	RECEPTACLE
EQUIP	EQUIPMENT	REQ'D	REQUIRED
ESB	ENERGY SAVING BALLAST	RM	ROOM
ETR	EXISTING TO REMAIN	RX	REMOVE EXISTING
EX	EXISTNG	SCHED	SCHEDULE
EWC	ELECTRIC WATER COOLER	SD	SMOKE DETECTOR
F/A, FA	FIRE ALARM	SP	SINGLE POLE
FAAP	FIRE ALARM ANNUCIATOR PANEL	SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	T, XFMR, T/F	TRANSFORMER
FLA	FULL LOAD AMPS	TEL	TELEPHONE
F/N	FULL NEUTRAL	TYP	TYPICAL
FSS	FUSED SAFETY SWITCH	UNF	UNFUSED
G, GND	GROUND	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLT, VOLTAGE
HP	HORSEPOWER	VA	VOLT AMP
HPF	HIGH POWER FACTOR	W	WATT, WIRE
IG	ISOLATOR GROUND	WP	WEATHERPROOF
INCAND	INCANDESCENT	W/	WITH
JB	JUNCTION BOX	#	NUMBER
KAIC	THOUSANDS OF AMPS INTERRUPTING CAPACITY		
KCMIL, MCM	THOUSANDS CIRCULAR MILS		
KV	KILOVOLT		

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LUMENS/WATTS	MANUFACTURER
A	2X2 RECESSED LED FIXTURE WITH CONCAVE, CLEAR, RIBBED REFRACTOR, WHITE FINISH AND 0-10V DIMMING DRIVER.	4300 LUMENS /32.2W	WILLIAMS LIGHTING PT-22-L43/840-RA-QS-DIM-UNV
A1	SAME AS FIXTURE TYPE 'A' EXCEPT WITH SELF CONTAINED EMERGENCY BATTERY.	4300 LUMENS /32.2W	WILLIAMS LIGHTING PT-22-L43/840-RA-QS-DIM-UNV/EM/12W
B	4" DIA. LED RECESSED DOWNLIGHT FIXTURE WITH WHITE BAFFLE TRIM AND FLANGE FINISH AND 0-10V DRIVER	1000 LUMENS /12.5W	WILLIAMS LIGHTING 4RCD-LS/9CS-WH-QS-DIM-UNV
B1	SAME AS FIXTURE TYPE 'B' EXCEPT WITH SELF CONTAINED EMERGENCY BATTERY.	1000 LUMENS /12.5W	WILLIAMS LIGHTING 4RCD-LS/9CS-WH-QS-DIM-UNV/EM
C	WALL MOUNTED LED VANDAL RESISTANT LIGHT FIXTURE WITH DARK BRONZE TEXTURED HOUSING & SELF CONTAINED BATTERY BACK UP. MOUNT LIGHT FIXTURE 12-14' AFG	2000 LUMENS 18W/120V	LITHONIA LIGHTING WDGE2 LED.P130K.80CR1 T3M.MVOLT.SRM.PBBW E20WC.PEDDBXD
D	1X4 CABLE HUNG LED STRIP FIXTURE WITH, WHITE RIBBED ACRYLIC SHIELD, FINISH AND 0-10V DIMMING DRIVER. HANG FIXTURES AT 10'-0"AFF	5200LUMENS /35.8W	WILLIAMS LIGHTING 76R-4-L52-9-40
D1	SAME AS FIXTURE TYPE 'D' EXCEPT WITH SELF CONTAINED EMERGENCY BATTERY.	5200LUMENS /35.8W	WILLIAMS LIGHTING 76R-4-L52-9-40-EM/10W
⊗	UNIVERSAL MOUNTED, SELF CONTAINED, EMERGENCY EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING, GREEN LETTERS, LED LAMPS, AND NICKEL-CADMIUM BATTERIES.	LED/120V/4.3W	LITHONIA LIGHTING LQMLED SERIES
F	EXTERIOR WALL MOUNTED LED LIGHT FIXTURE WITH DARK BRONZE FINISH, CLEAR GLASS LENS, AND 0-10V DRIVER. MOUNT LIGHT FIXTURE 18,-20'AFG	15028 LUMENS /123W	LITHONIA LIGHTING WDGE4 LEDP2-40K-80CRI-R4-MVOLT-SRM-PIRH-DDBXD
G	4.5" DIA. LED RECESSED DOWNLIGHT FIXTURE WITH WHITE FINISH, CLEAR GLASS LENS, AND 0-10V DRIVER	1000 LUMENS /13.5W	WILLIAMS LIGHTING 4DR-TL-L30-80CRI-40-OF-WH--WH-WET/CC

NOTES:

1. PROVIDE ALL REQUIRED MOUNTING HARDWARE IF SHOWN ON THE PLANS OR NOT TO PROPERLY INSTALL LIGHT FIXTURES.
2. CONTRACTOR SHALL COORDINATE ALL FIXTURE FINISHES WITH THE ARCHITECT PRIOR TO ORDERING.

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Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

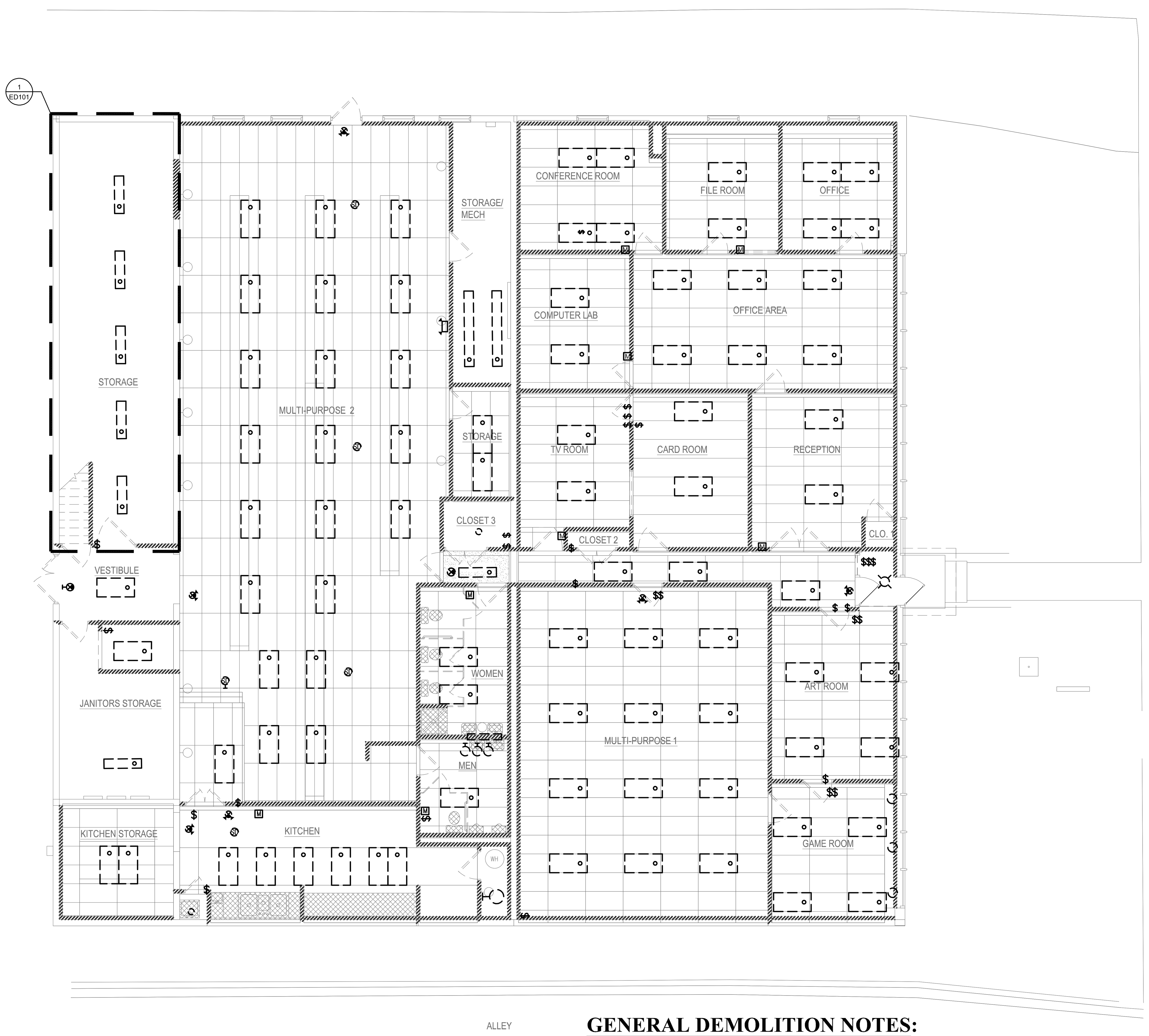
HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ELECTRICAL COVER SHEET

3/12/26

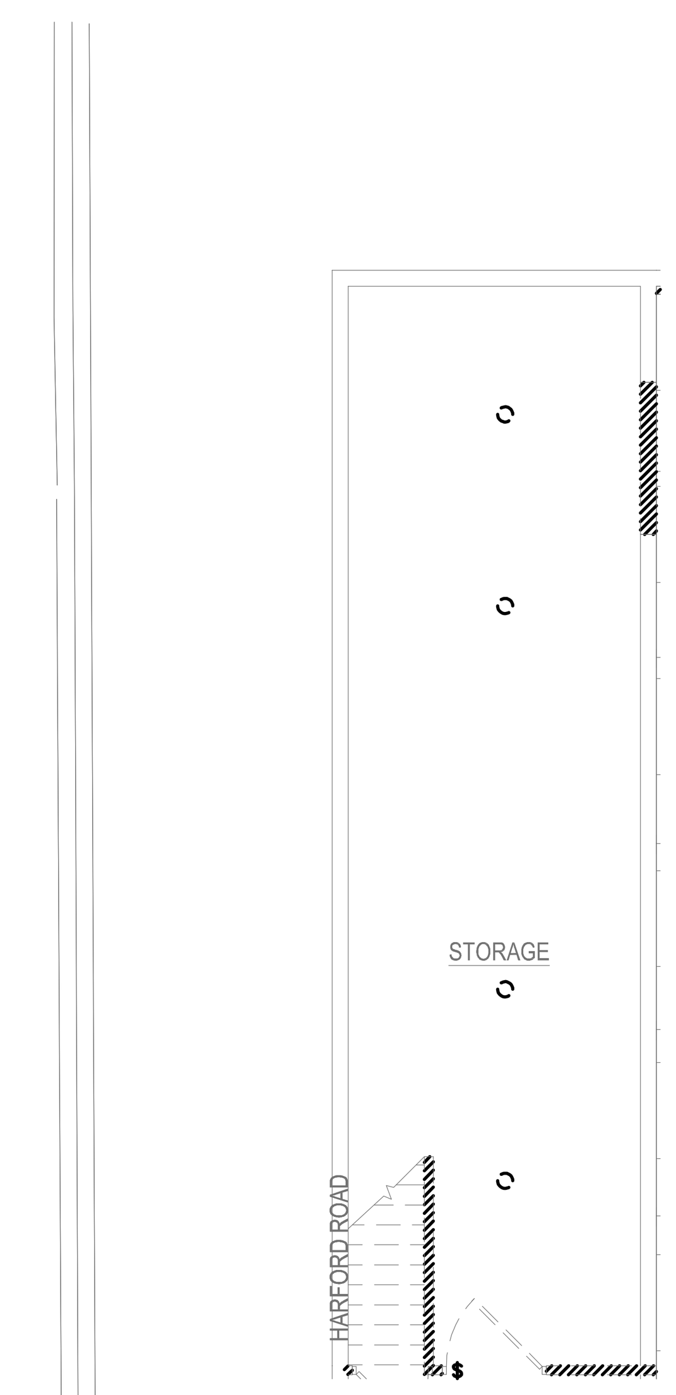
SHEET E-000

JCE NO. 2017.36 PRINTED:01/24/2025



LIGHTING PLAN - DEMOLITION

SCALE:1/8"=1'-0"



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ED101

LOFT STORAGE - DEMOLITION

SCALE:1/8"=1'-0"

GENERAL DEMOLITION NOTES:

1.) REMOVE ALL EXISTING LIGHT FIXTURES, SWITCHES AND ASSOCIATED BRANCH CIRCUIT WIRING.

2.) REMOVE ALL EXISTING FIRE ALARM SYSTEM CONTROL PANEL, ALARM DEVICES AND ASSOCIATED WIRING.

3.) REMOVE ALL EXISTING RECEPTACLES, OVER CURRENT PROTECTIVE DEVICES, PANELBOARD, METER WITH ASSOCIATED CONDUIT AND WIRING.

ELECTRICAL DEMOLITION LEGEND

	REMOVE EXISTING CEILING LIGHT FIXTURE SURFACRE OR RECESSED MOUNTED
	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE.
	REMOVE EXISTING UNIVERSAL MOUNTED EMERGENCY EXIT SIGN, CEILING MOUNTED, WALL MOUNTED.
	REMOVE EXISTING 2'X2' FLUORESCENT LIGHT FIXTURE.
	REMOVE EXISTING 2'X4' FLUORESCENT LIGHT FIXTURE.
	REMOVE EXISTING JUNCTION BOX – SURFACE OR CEILING MOUNTED – WALL MOUNTED
	LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	REMOVE EXISTING 1'X4' FLUORESCENT LIGHT FIXTURE.
M	WALL MOUNTED OCCUPANCY SENSOR, 20A,120–277V,1P MH = 48"AFF
$	REMOVE EXISTING WALL MOUNTED TOGGLE SWITCH 20A,120–277V,1P, MH = 48"AFF
SD SD	REMOVE EXISTING SMOKE DETECTOR CEILING WALL MOUNTED
	REMOVE EXISTING DUPLEX RECEPTACLE WALL MOUNTED
	REMOVE EXISTING MOTOR
	REMOVE EXISTING ELECTRICAL PANEL WALL MOUNTED
	REMOVE CEILING MOUNTED CAMERA.
	REMOVE DATA OUTLET IN CONCEALED WALL BOX. MH=18" AFF., U.O.N. PROVIDE EMPTY 3/4" C WITH NYLON PULL LINE. FROM OUTLET BOX UP TO MINIMUM 12" ABOVE CEILING.
	REMOVE FIRE ALARM AUDIO/VISUAL DEVICE WALL MOUNTED MH=72"AFF.
F	REMOVE PULL STATION MH=48"AFF, AUDIO/VISUAL DEVICE MH=72" AFF.

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NO	DATE	DESCRIPTION

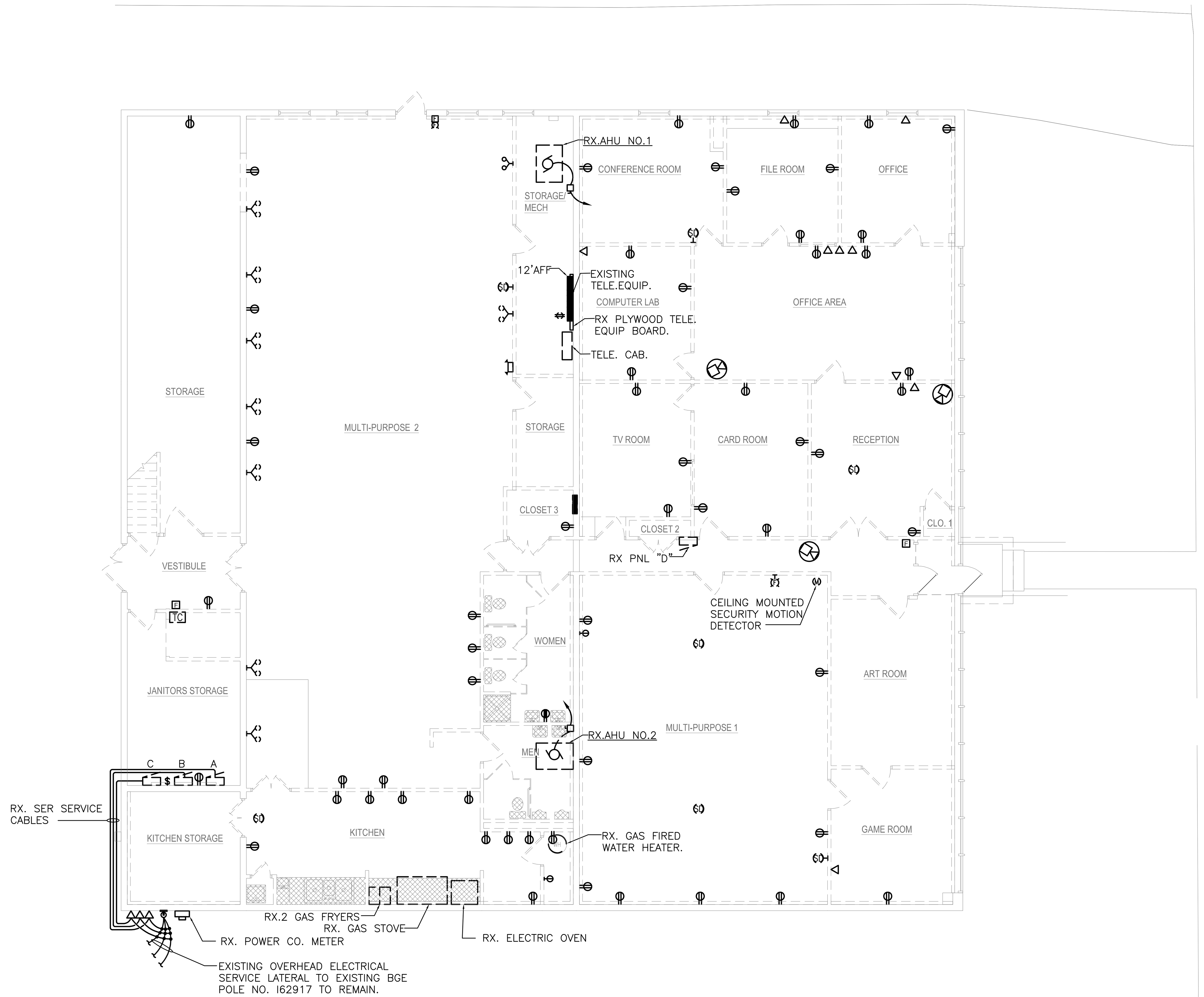
HARFORD SENIOR CENTER
RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

LIGHTING RCP PLAN DEMOLITION WORK

3/12/26

SHEET
ED-101

JCE NO. 2017.36 PRINTED:01/24/2025



POWER PLAN - DEMOLITION

SCALE: 1/8"=1'-0"

GENERAL DEMOLITION NOTES:

1.) REMOVE ALL EXISTING LIGHT FIXTURES, SWITCHES AND ASSOCIATED BRANCH CIRCUIT WIRING.

2.) REMOVE ALL EXISTING FIRE ALARM SYSTEM CONTROL PANEL, ALARM DEVICES AND ASSOCIATED WIRING.

3.) REMOVE ALL EXISTING RECEPTACLES, OVER CURRENT PROTECTIVE DEVICES, PANELBOARD, METER WITH ASSOCIATED CONDUIT AND WIRING.

ELECTRICAL DEMOLITION LEGEND

Symbol	Description
	REMOVE EXISTING CEILING LIGHT FIXTURE SURFACRE OR RECESSED MOUNTED
	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE.
	REMOVE EXISTING UNIVERSAL MOUNTED EMERGENCY EXIT SIGN, CEILING MOUNTED, WALL MOUNTED.
	REMOVE EXISTING 2'X2' FLUORESCENT LIGHT FIXTURE.
	REMOVE EXISTING 2'X4' FLUORESCENT LIGHT FIXTURE.
J	REMOVE EXISTING JUNCTION BOX – SURFACE OR CEILING MOUNTED – WALL MOUNTED
	LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	REMOVE EXISTING 1'X4' FLUORESCENT LIGHT FIXTURE.
M	WALL MOUNTED OCCUPANCY SENSOR, 20A,120–277V,1P MH = 48"AFF
$	REMOVE EXISTING WALL MOUNTED TOGGLE SWITCH 20A,120–277V,1P, MH = 48"AFF
SD	REMOVE EXISTING SMOKE DETECTOR CEILING WALL MOUNTED
	REMOVE EXISTING DUPLEX RECEPTACLE WALL MOUNTED
	REMOVE EXISTING MOTOR
	REMOVE EXISTING ELECTRICAL PANEL WALL MOUNTED
	REMOVE CEILING MOUNTED CAMERA.
▽	REMOVE DATA OUTLET IN CONCEALED WALL BOX. MH=18" AFF., U.O.N. PROVIDE EMPTY 3/4" C WITH NYLON PULL LINE. FROM OUTLET BOX UP TO MINIMUM 12" ABOVE CEILING.
F	REMOVE FIRE ALARM AUDIO/VISUAL DEVICE WALL MOUNTED MH=72"AFF.
F	REMOVE PULL STATION MH=48"AFF, AUDIO/VISUAL DEVICE MH=72" AFF.

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NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

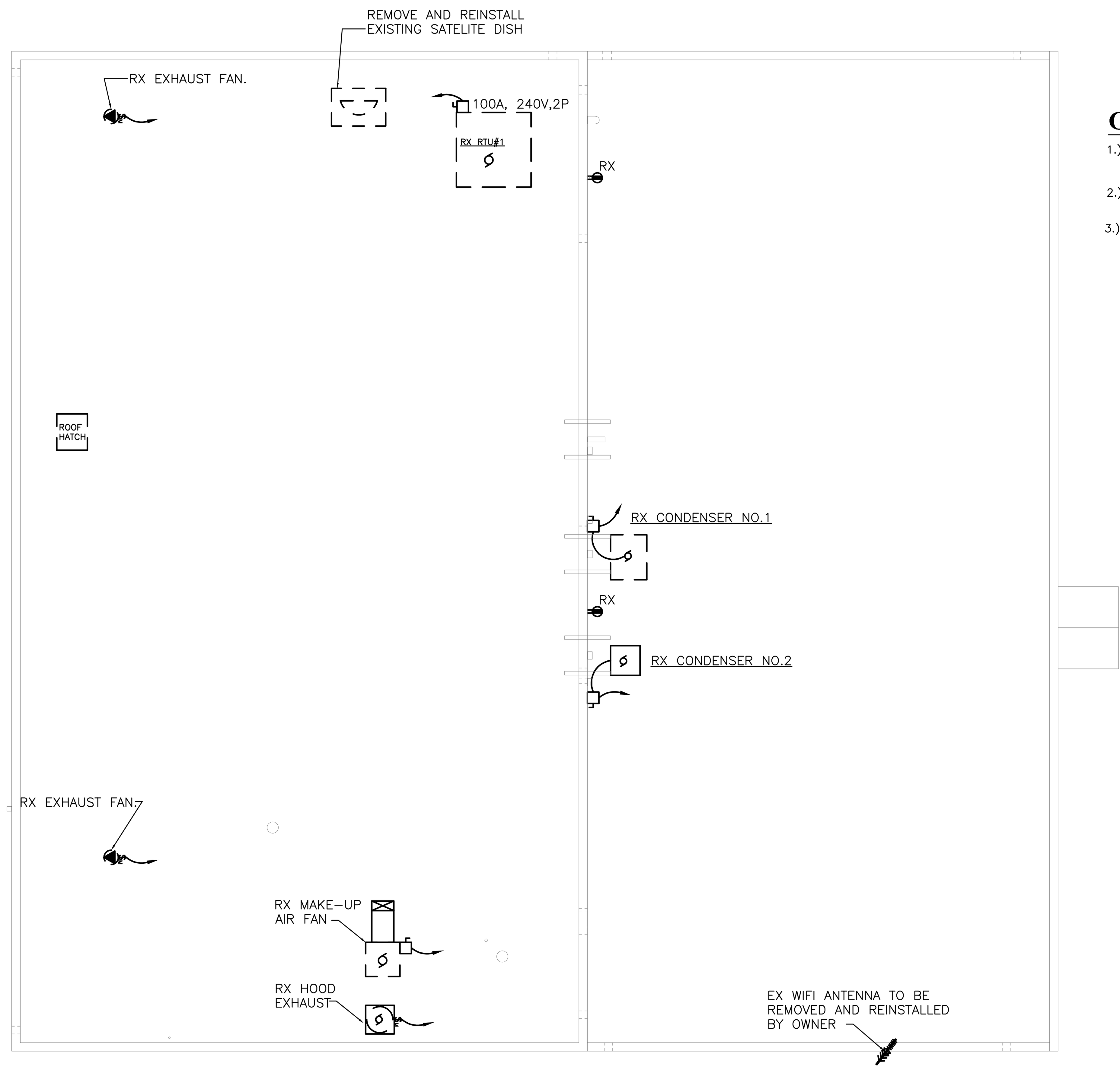
POWER FLOOR PLAN DEMOLITION

3/12/26

SHEET ED-102

STATE OF MARYLAND · PROFESSIONAL ENGINEER · No. 16001

JCE NO. 2017.36 PRINTED:01/24/2025



ELECTRICAL ROOF PLAN - DEMOLITION

SCALE:1/8"=1'-0"

GENERAL DEMOLITION NOTES:

1.) CONTRACTOR SHALL REMOVE EXISTING MECHANICAL EQUIPMENT ON THE ROOF INCLUDING ASSOCIATED SWITCHES DISCONNECTS, RECEPTACLES ,ECT FILED VERIFY EXISTING LOCATION.

2.) REMOVE ALL EXISTING FIRE ALARM SYSTEM CONTROL PANEL,ALARM DEVICES AND ASSOCIATED WIRING. FIELD VERIFY ALL LOCATIONS.

3.) REMOVE ALL EXISTING RECEPTACLES OVER CURRENT PROTECTIVE DEVICES PANELBOARD, METER WITH ASSOCIATED CONDUIT AND WIRING.FIELD VERIFY ALL LOCATIONS.

ELECTRICAL DEMOLITION LEGEND

	REMOVE EXISTING CEILING LIGHT FIXTURE SURFACRE OR RECESSED MOUNTED
	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE.
	REMOVE EXISTING UNIVERSAL MOUNTED EMERGENCY EXIT SIGN, CEILING MOUNTED, WALL MOUNTED.
	REMOVE EXISTING 2'X2' FLUORESCENT LIGHT FIXTURE.
	REMOVE EXISTING 2'X4' FLUORESCENT LIGHT FIXTURE.
J J	REMOVE EXISTING JUNCTION BOX – SURFACE OR CEILING MOUNTED – WALL MOUNTED
	LED FIXTURE. LETTER DESIGNATIONS CORRESPOND TO LIGHTING FIXTURE SCHEDULE.
	REMOVE EXISTING 1'X4' FLUORESCENT LIGHT FIXTURE.
M	WALL MOUNTED OCCUPANCY SENSOR, 20A,120–277V,1P MH = 48"AFF
$	REMOVE EXISTING WALL MOUNTED TOGGLE SWITCH 20A,120–277V,1P, MH = 48"AFF
SD SD	REMOVE EXISTING SMOKE DETECTOR CEILING WALL MOUNTED
	REMOVE EXISTING DUPLEX RECEPTACLE WALL MOUNTED
	REMOVE EXISTING MOTOR
	REMOVE EXISTING ELECTRICAL PANEL WALL MOUNTED
	REMOVE CEILING MOUNTED CAMERA.
▽	REMOVE DATA OUTLET IN CONCEALED WALL BOX. MH=18" AFF., U.O.N. PROVIDE EMPTY 3/4" C WITH NYLON PULL LINE. FROM OUTLET BOX UP TO MINIMUM 12" ABOVE CEILING.
	REMOVE FIRE ALARM AUDIO/VISUAL DEVICE WALL MOUNTED MH=72"AFF.
F	REMOVE PULL STATION MH=48"AFF, AUDIO/VISUAL DEVICE MH=72" AFF.

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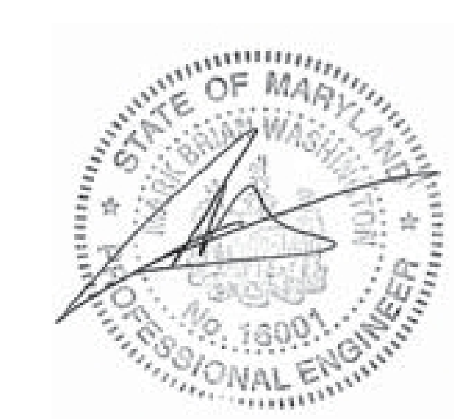
Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05–16001, expiration date 4–26–26.

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER
RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ROOF PLAN
DEMOLITION



3/12/26

SHEET
ED-103

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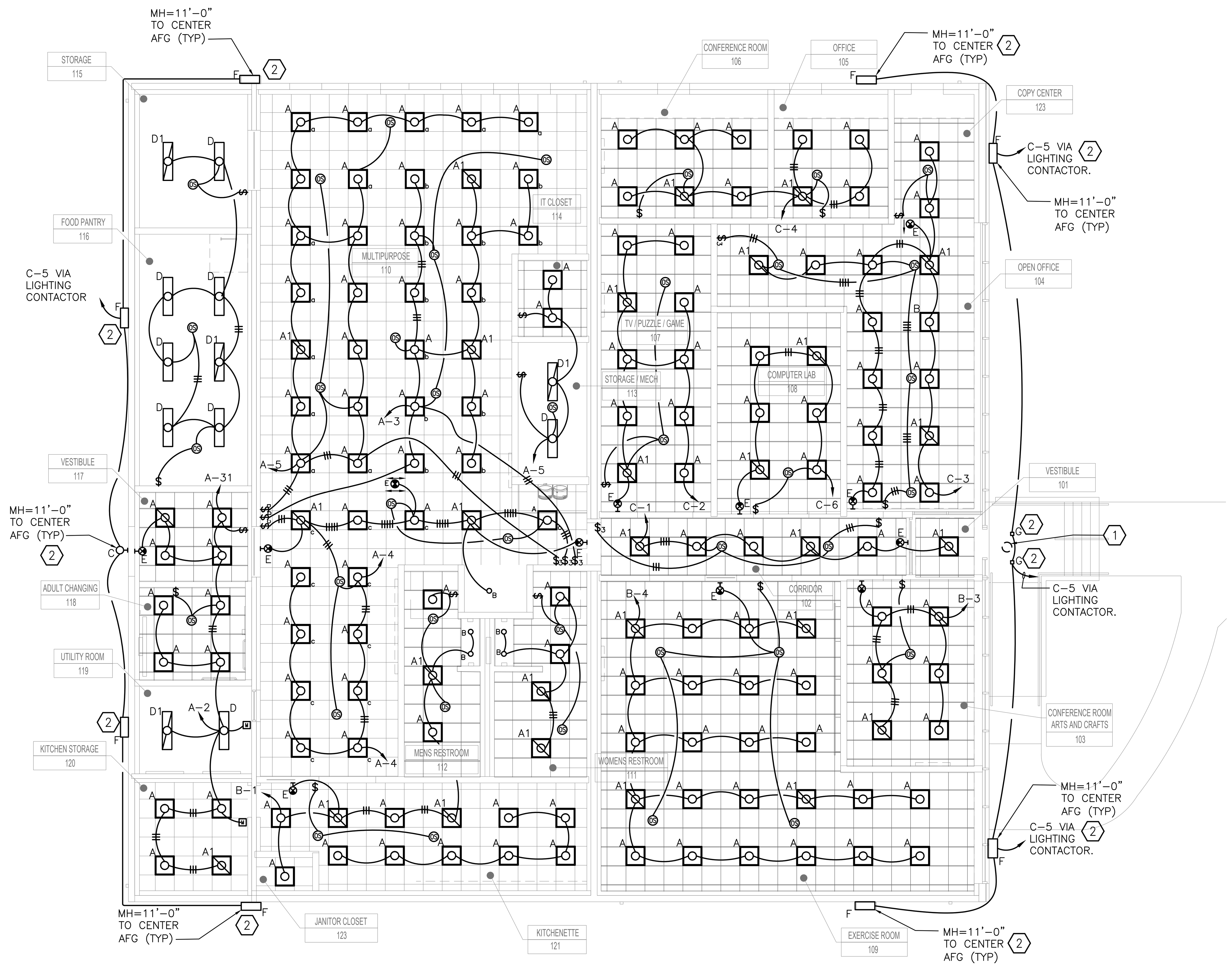


LIGHTING PLAN - NEW WORK

SCALE:1/8"=1'-0"

GENERAL NOTES:

1.) ALL EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCH.

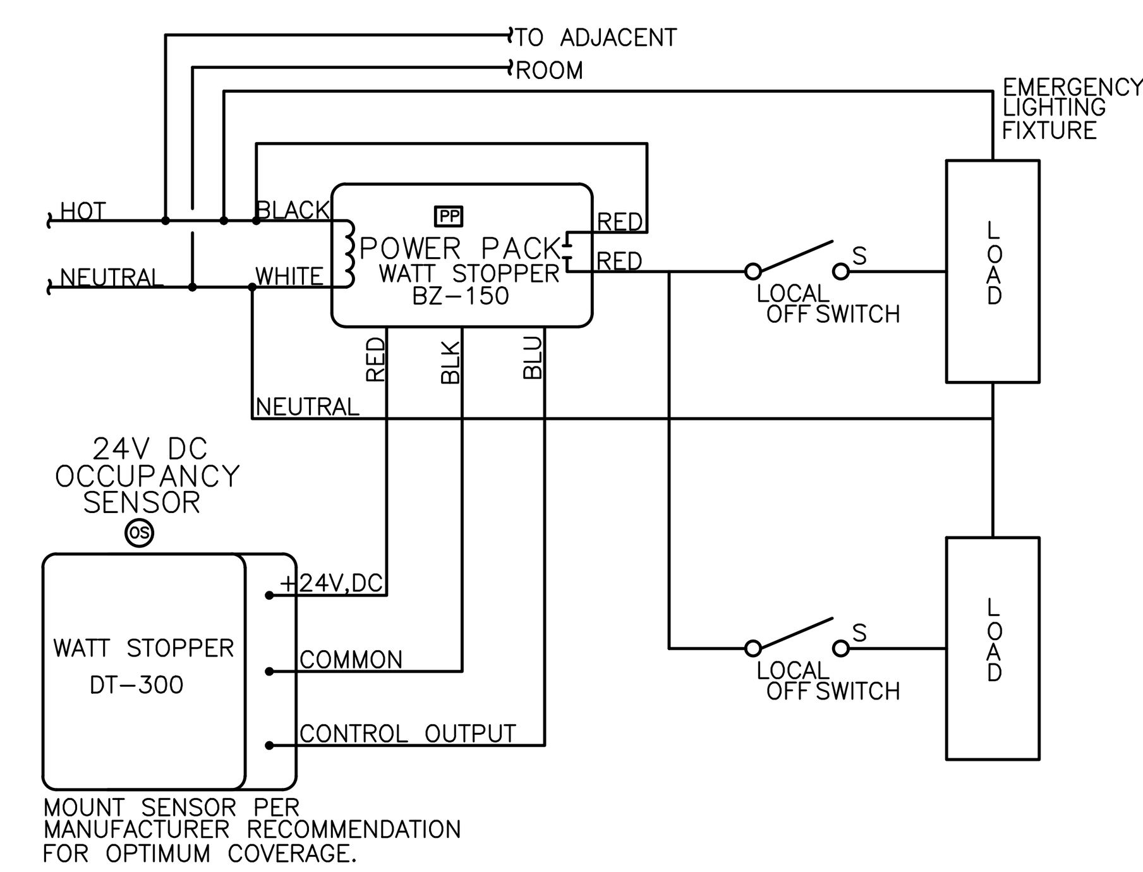
2.) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER QUANTITY OF CONDUCTORS.

3.) TYPE "G" LIGHT FIXTURES SHALL BE INSTALLED IN NEW CANOPIES UNDER ALTERNATE #1 ONLY (TYPICAL).

DRAWING NOTES:

1. CONTRACTOR SHALL REPLACE THE EXISTING RECESSED DOWN LIGHT IN THE EXISTING FRONT CANOPY WITH A NEW LITHONIA LED MODEL LDM6RV WITH 1000 LUMENS, 400K AND CONNECT TO THE EXTERIOR LIGHT CIRCUIT. ALTERNATE #1 CONTRACTOR SHALL INSTALL (2) TYPE 'G' FIXTURES AS INDICATED.

2. ALL EXTERIOR LIGHTS SHALL BE WIRED SUCH THAT THEY ARE PHOTOCELL ON AND TIME-CLOCK OFF. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR PROPER OPERATION.



OCCUPANCY SENSOR WIRING DIAGRAM-RESTROOMS

SCALE: NONE

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HARFORD SENIOR CENTER RENOVATIONS

4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ELECTRICAL LIGHTING NEW WORK PLAN

3/12/26

SHEET
E-101

46 OF 51

STATE OF MARYLAND
PROFESSIONAL ENGINEER
No. 16001

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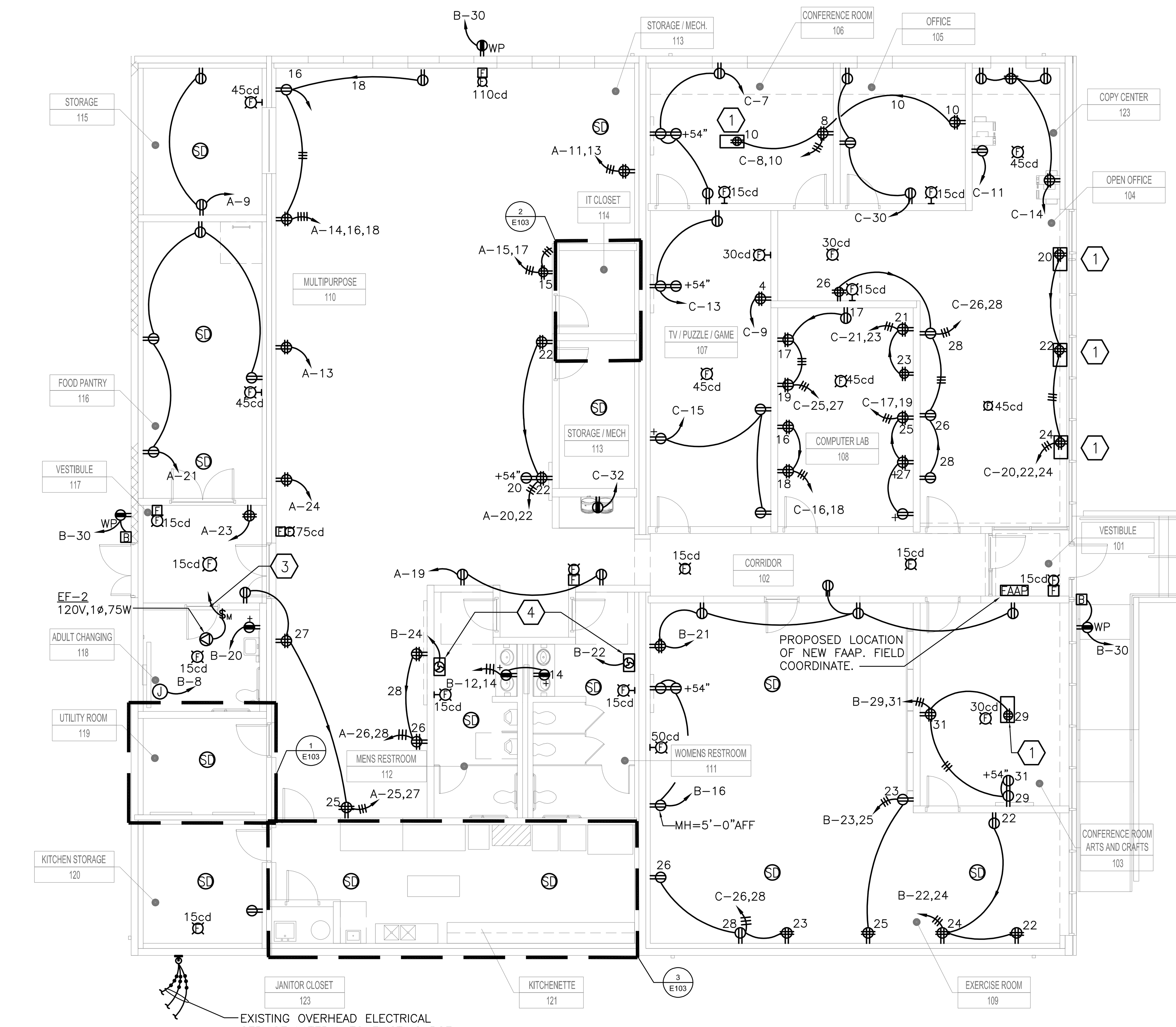
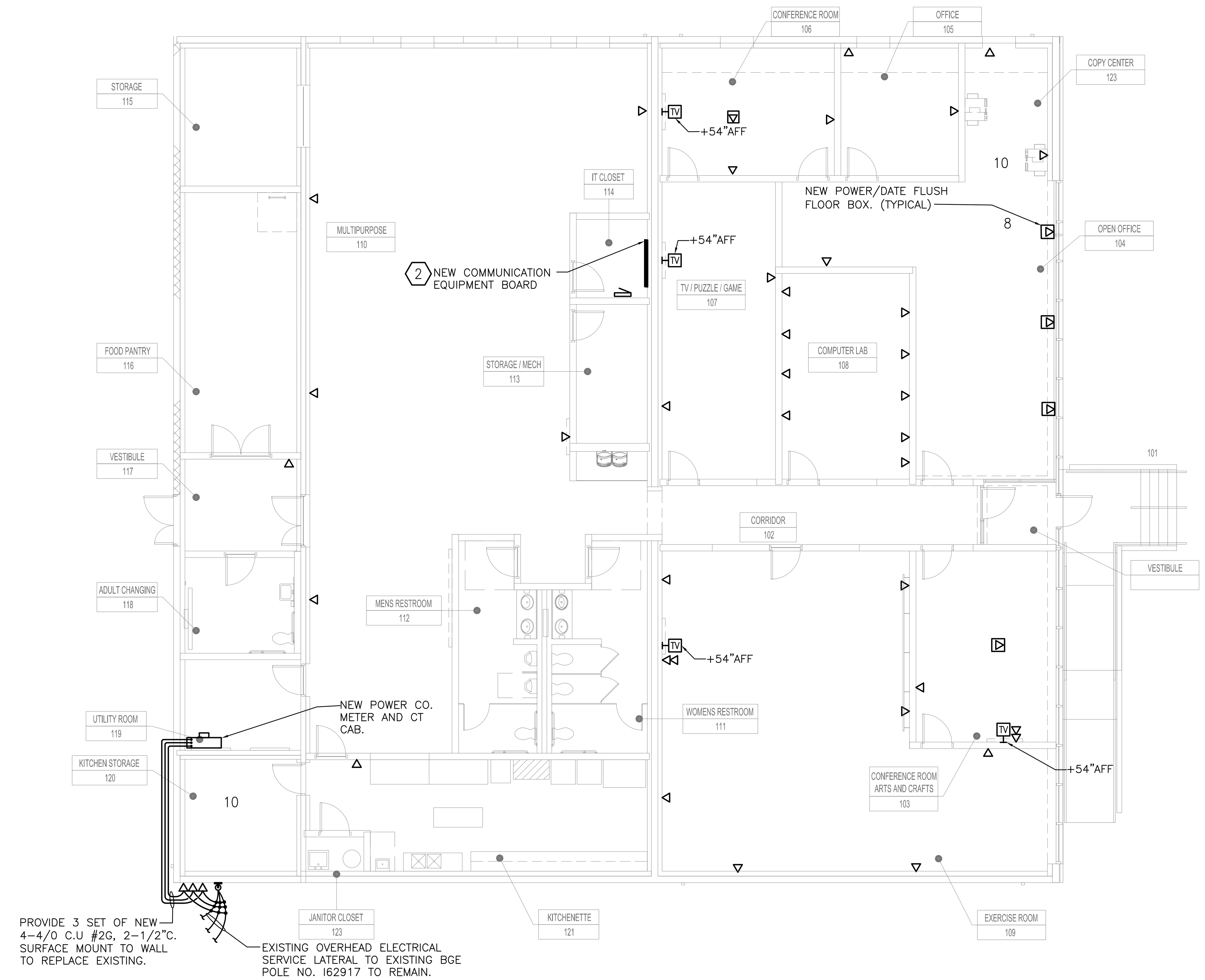


POWER FLOOR PLAN - NEW WORK

SCALE:1/8"=1'-0"



CCTV POWER & DATA FLOOR PLAN - NEW WORK

SCALE:1/8"=1'-0"

DRAWING NOTES:

1. PROVIDE FLUSH FLOOR JUNCTION BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET BY STEEL CITY OR EQUAL. FIELD COORDINATE ACTUAL LOCATION WITH EQUIPMENT FURNITURE
2. PROVIDE 4'X8'X 3/4" PLYWOOD TELEPHONE TERMINAL BOARD RELOCATE ALL EXISTING COMMUNICATION EQUIPMENT TO NEW BOARD AND CONNECT C.T DEVICES SHOWN ON PLAN.
3. CONNECT TOILET ROOM EXHAUST FAN TO LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH.
4. ELECTRIC HAND DRYER 1725W,120V,1Ø. FIELD COORDINATE MOUNTING HEIGHT.

GENERAL NOTES

1.) CONTRACTOR SHALL PROVIDE ALL REQUIRED FIRE ALARM DEVICES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

2.) CONTRACTOR SHALL PROVIDE SHOP DRAWING INDICATING FULL DESIGN OF THE FIRE ALARM SYSTEM IN COMPLIANCE WITH ALL REQUIRED CODE.

3.) CONTRACTOR SHALL FIELD VERIFY ALL DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

4.) CONTRACTOR SHALL FIELD COORDINATE MOUNTING HEIGHTS OF ALL TELE/DATA DEVICES AND POWER RECEPTACLES WITH FURNITURE EQUIPMENT.

5.) CONTRACTOR SHALL USE PLENUM RATED CABLES ABOVE CEILINGS.

LOW VOLTAGE SCOPE OF WORK -BY GENERAL CONTRACTOR

- GC SHALL REMOVE ALL LEGACY CABLE AND ABANDON CABLE.
- GC SHALL DRESS AND FINISH THE TELECOMMUNICATION ROOM WITH 3/4" THICK 4WX8'H SHEET OF FIRE-RETARDANT PLYWOOD ON THE 3 WALLS THAT DO NOT HAVE A DOOR PURSUANT TO TIA INDUSTRY STANDARDS. GC SHALL INSTALL ELECTRICAL WALL BOXES FLUSH WITH THE PLYWOOD SO THAT FACEPLATES CAN BE INSTALLED FLUSH WITH THE PLYWOOD.
- GC SHALL FURNISH AND INSTALL ALL WALL OUTLET BOXES, FLOOR BOXES, ELECTRICAL METALLIC TUBING (EMT) OR SURFACE MOUNTED RACEWAY, AS REQUIRED BY CODE AND SHOWN ON DRAWINGS.
- GC SHALL PROVIDE ONE 30-AMP DUPLEX OUTLET WITHIN THE TELECOMMUNICATIONS ROOM FOR A CITY PROVIDED UPS AT A LOCATION DESIGNATED ON THE DRAWINGS.
- GC SHALL PROVIDE DEDICATED SUPPLEMENTAL COOLING SERVING THE TELECOMMUNICATIONS ROOM AS INDICATED ON THE DRAWINGS.
- GC SHALL FURNISH AND INSTALL A2"X12"X1/4" COPPER BUSBAR THAT IS A DESIGNATED TELECOMMUNICATION MAIN GROUND BUS (TMGB), MOUNTED ON THE 3/4" FIRE RATED PLYWOOD BACKBOARD IN THE MDF ROOM AS SHOWN ON THE DRAWINGS
- GC SHALL PROVIDE ELECTRICAL GROUNDING FROM THE MDF MAIN DISTRIBUTION PANEL BOARD WITH THE ONE #1/0 AWG COPPER GROUND CONDUCTOR. IN CONDUIT OR INSULATED WIRE, FROM THE BUSBAR BACK TO THE BUILDING GROUND.
- GC SHALL FURNISH AND INSTALL CONDUIT,RING, AND STRING FROM THE MINIMUM POINT OF ENTRY (MPOE) TO THE CITY'S TELECOMMUNICATIONS CLOSETS.
- GC SHALL FURNISH AND INSTALL ROOF CONDUIT WITH ROOFTOP PIPE SUPPORT TO THE POINT OF ENTRY, AS SHOWN ON THE DRAWINGS FOR BDE ANTENNAE.
- GC SHALL FURNISH AND INSTALL ALL SLEEVES, CORES AND WALL PENETRATION REQUIRING SLEEVES TO BE CODE COMPLIANT.

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4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ELECTRICAL POWER NEW WORK PLAN

3/12/26

SHEET E-102

JCE NO. 2017.36 PRINTED:01/24/2025

GENERAL NOTES

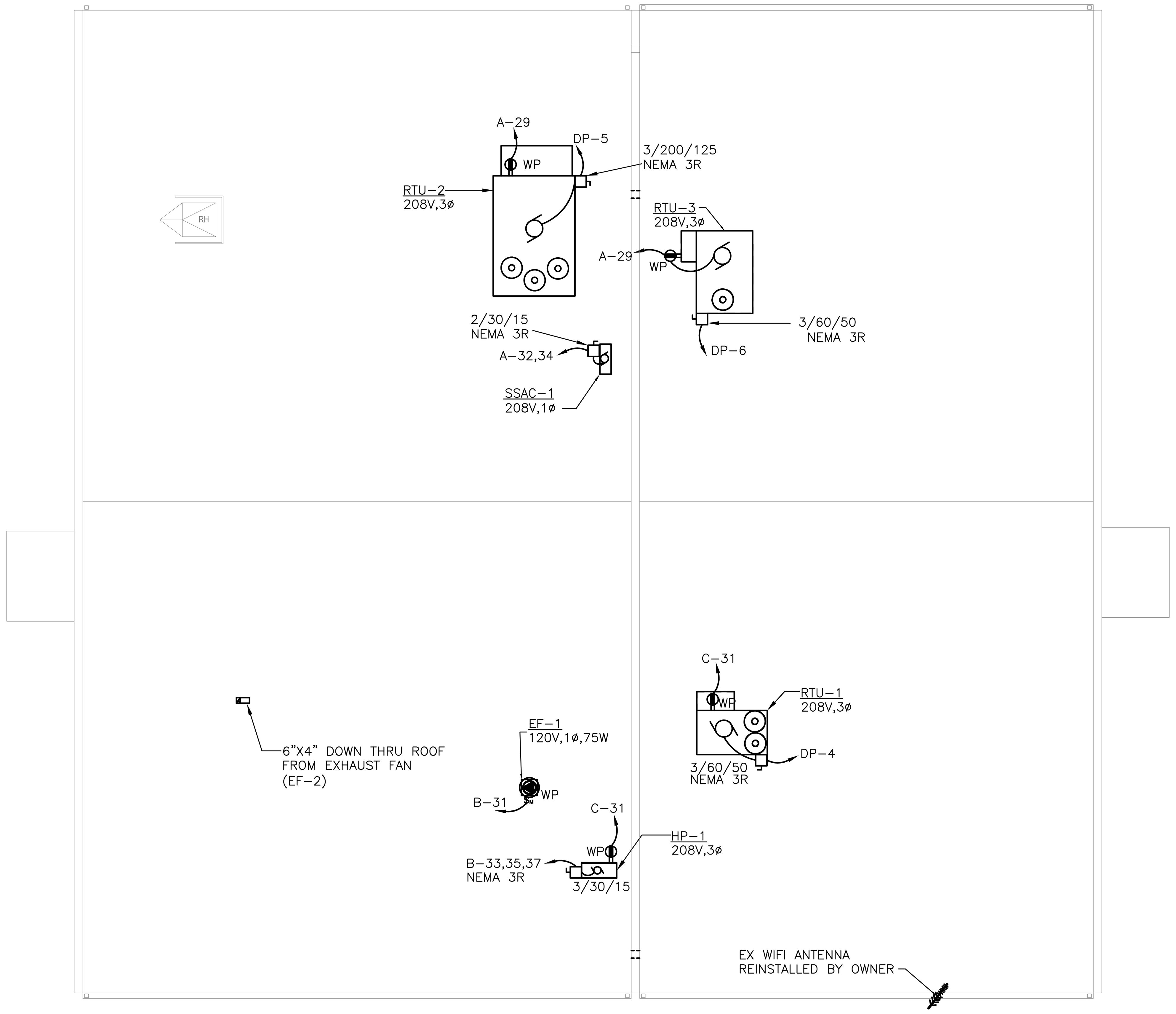
1.) ALL DISCONNECT SWITCHES, & RECEPTACLES USED OUT SIDE SHALL BE WEATHERPROOF SUITED FOR SUCH CONDITION.

2.) CONTRACTOR SHALL SEAL ALL ROOF PENETRATIONS. FIELD COORDINATE WITH ROOFING CONTRACTOR.

DRAWING NOTES

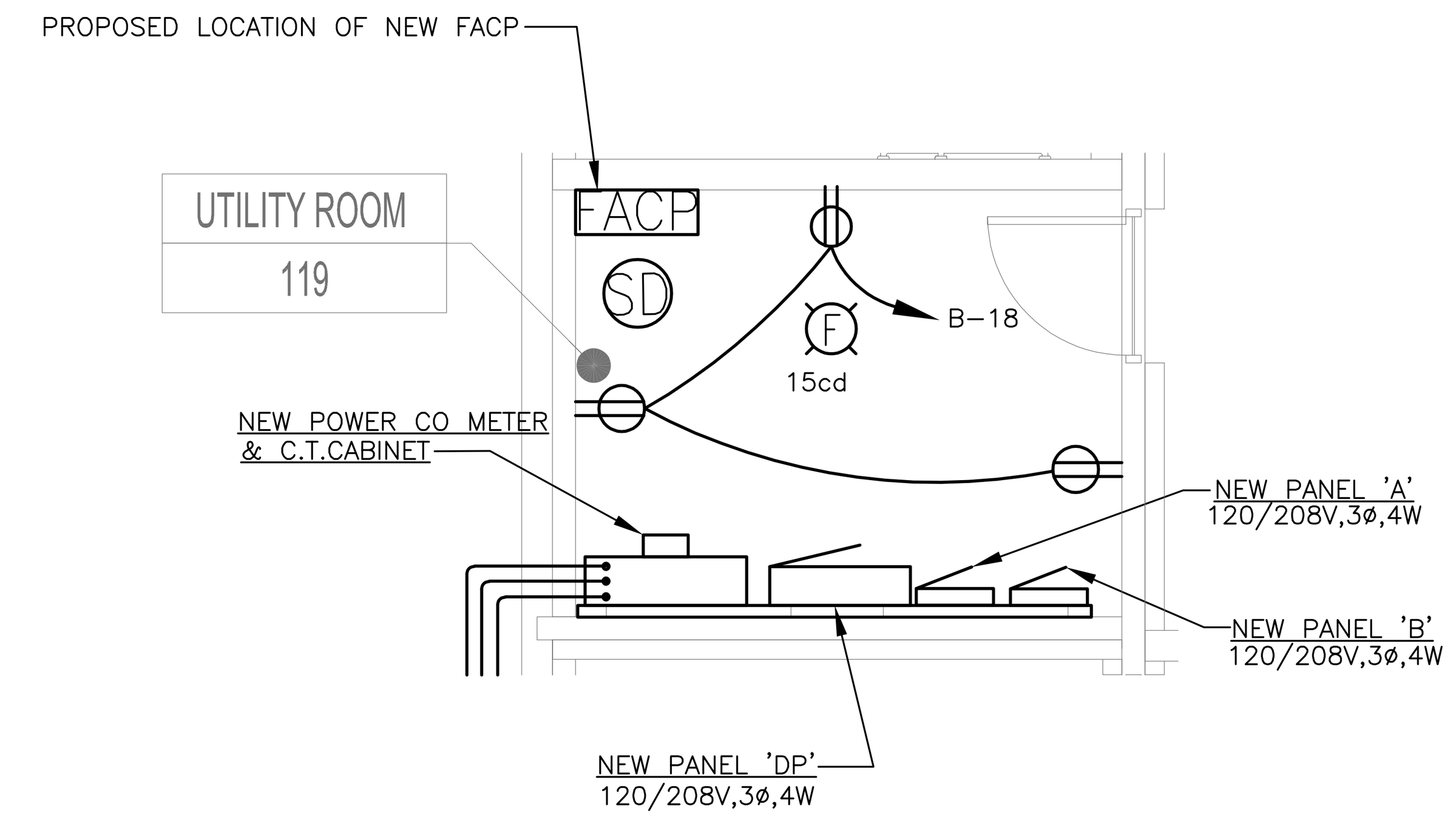
(1) CONNECT TO CONDENSING UNIT ON ROOF FOR POWER

(2) CONTRACTOR SHALL FIELD COORDINATE POWER REQUIREMENTS WITH OWNER SELECTED EQUIPMENT AND MOUNTING HEIGHT REQUIREMENTS.



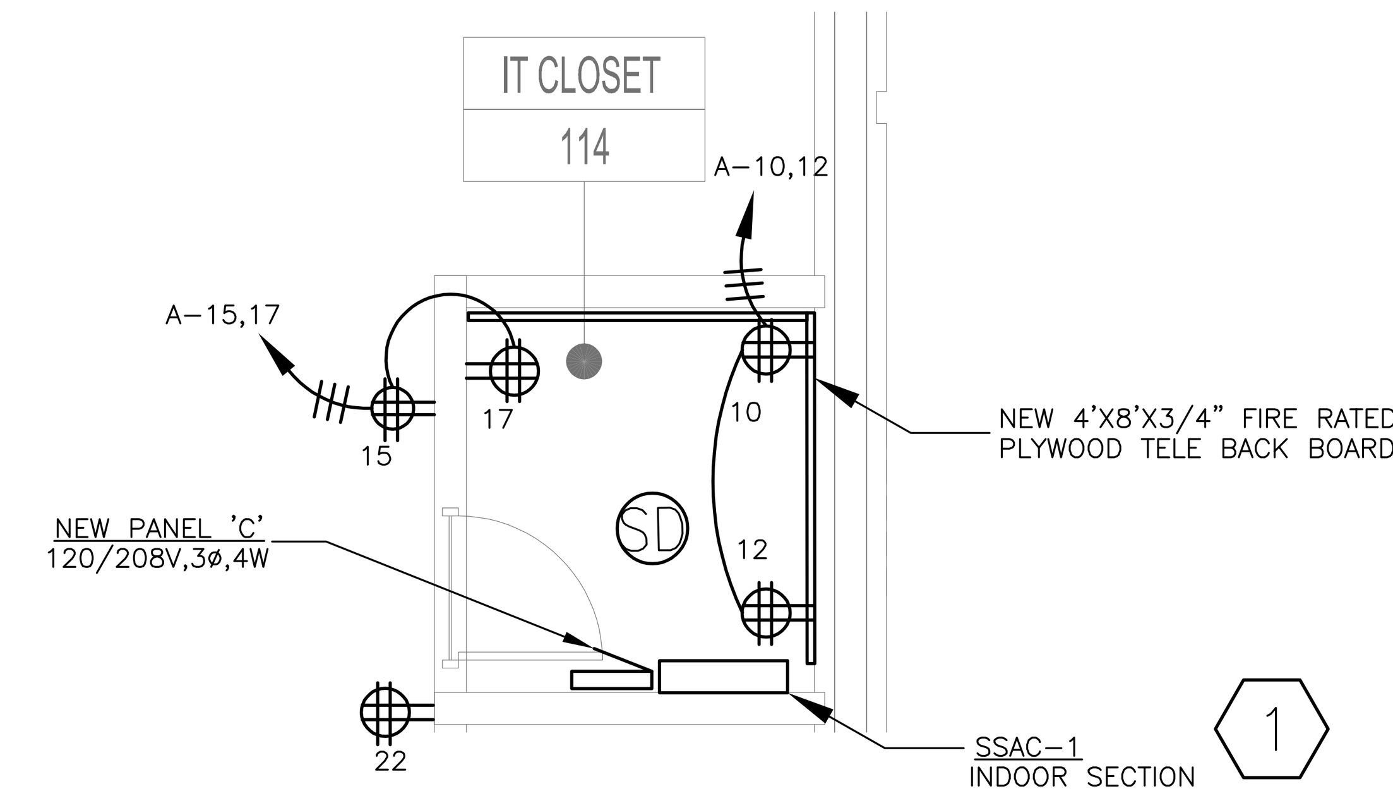
ELECTRICAL - ROOF PLAN - NEW WORK

SCALE:1/8"=1'-0"



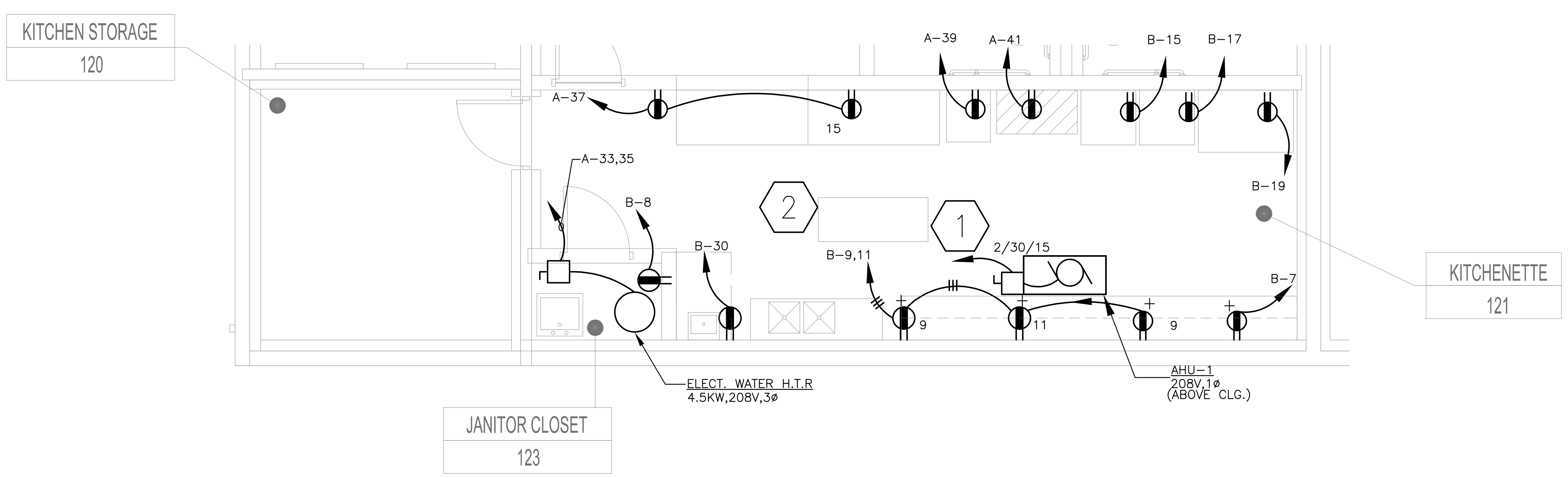
IT CLOSET PART PLAN - NEW WORK

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



IT CLOSET PART PLAN - NEW WORK

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



KITCHENETTE PART PLAN - NEW WORK

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

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PROJECT NO. PRJ000889

ELECTRICAL ROOF PLAN NEW WORK

3/12/26

SHEET E-103

DISTRIBUTION PANEL DP

VOLTAGE: 120 / 208   A.I.C.: 42 k
PHASE, WIRE: 3 , 4   600 AMP MAIN C/B   MOUNTED: SURFACE

		BREAKER			QTY	FEEDER SIZE PER SET			CONNECTED	
CKT	SERVING	POLE	FRAME	TRIP	SETS	WIRE	GND	CDT	LOAD (kVA)	COMMENTS
1	PANEL A	3	250	125	1	4 # 1	1 # 6	1 1/2"	31.0	
2	PANEL B	3	250	175	1	4 # 2/0	1 # 6	2"	48.0	
3	PANEL C	3	250	125	1	4 # 1	1 # 6	1 1/2"	25.0	
4	RTU-1	3	100	60	1	3 # 6	1 # 10	1"	15.0	
5	RTU-2	3	250	120	1	3 # 1	1 # 6	1 1/4"	16.2	
6	RTU-3	3	100	50	1	3 # 6	1 # 10	1"	11.2	
7	SPACE	3								
8	TVSS UNIT	3							1.5	

* SHUNT TRIP TYPE C/B - INTERFACE WITH FIRE ALARM SYSTEM FOR AUTOMATIC SHUT-OFF SEQUENCE.

NOTES:
1. PANEL C/B'S SHALL BE CURRENT LIMITING AND/OR U.L. SERIES RATED FOR USE OF 10k A.I.C. EQUIPMENT DOWNSTREAM.

TOTAL kVA = 147.9   DESIGN AMPS = **493**
SPARE = **20%**   MOCP = **600** AMPS

LOAD CODE	DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
AC	AIR CONDITIONING	42.4	100%	42.4
H	HEATING		0%	
R	RECEPTACLES		*	
PA	PANEL (EXC. HEAT, A/C, REC.)	104.0	100%	104.0
EQ	EQUIPMENT	1.5	100%	1.5
TOTAL		147.9		147.9

PANEL A

VOLTAGE: 120 / 208   A.I.C.: 10k
PHASE, WIRE: 3 PH , 4W   125 AMP MAIN C/B   MOUNTED: SURFACE

KVA			C/B		WIRE					WIRE		C/B				KVA
CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	CODE
L	1	LIGHTING	1	20	2	12	1.2	A	1.2	2	12	1	20	LIGHTING	2	L
L	3	LIGHTING	1	20	2	12	1.2	B	0.5	2	12	1	20	LIGHTING	4	L
L	5	LIGHTING	1	20	2	12	0.8	C	0.5	2	12	1	20	LIGHTING	6	L
L	7	LIGHTING	1	20	2	12	1.2	A	1.5	2	12	1	20	FACP	8	EQ
R	9	RECEPTACLES	1	20	2	12	0.4	B	0.5	2	12	1	20	RECEPTACLES	10	R
R	11	RECEPTACLES	1	20	2	12	0.5	C	0.5	2	12	1	20	RECEPTACLES	12	R
R	13	RECEPTACLES	1	20	2	12	0.4	A	0.4	2	12	1	20	RECEPTACLES	14	R
R	15	RECEPTACLES	1	20	2	12	0.4	B	0.4	2	12	1	20	RECEPTACLES	16	R
R	17	RECEPTACLES	1	20	2	12	0.4	C	0.4	2	12	1	20	RECEPTACLES	18	R
R	19	RECEPTACLES	1	20	2	12	0.6	A	0.2	2	12	1	20	RECEPTACLES	20	R
R	21	RECEPTACLES	1	20	2	12	0.6	B	1.2	2	12	1	20	WATER COOLER REC.	22	EQ
R	23	RECEPTACLES	1	20	2	12	0.4	C	0.4	2	12	1	20	RECEPTACLES	24	R
R	25	RECEPTACLES	1	20	2	12	0.4	A	0.4	2	12	1	20	RECEPTACLES	26	R
R	27	RECEPTACLES	1	20	2	12	0.4	B	0.4	2	12	1	20	RECEPTACLES	28	R
R	29	RECEPTACLES ROOF	1	20	2	12	0.4	C		2	12	1	20	RECEPT STORAGE	30	R
EQ	31	FAUCETS SENSORS	1	20	2	12	0.5	A				1	20	SPARE	32	
WH	33	ELEC WATER HEATER	2	30	2	10	2.3	B	1.2	2	12	2	20	SSAC-A	34	AC
WH	35						2.3	C	1.2						36	AC
R	37	RECEPTACLES	1	20	2.0	12	0.4	A				1	20	SPARE	38	
R	39	RECEPTACLES	1	20	2.0	12	0.4	B				1	20	SPARE	40	
R	41	RECEPTACLES	1	20	2	12	0.4	C				1	20	SPARE	42	

TOTAL DEMAND KVA (PER PHASE): A: 9.3   B: 10.3   C: 8.5   DESIGN KVA: 31   DESIGN AMPS: 54

NOTES:
* VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO RUNNING CIRCUIT.

		CONN. KVA			DEMAND	DEMAND KVA		
CD	DESCRIPTION	A	B	C	FACTOR	A	B	C
AC	AIR CONDITIONING		1.2	1.2	100%		1.2	1.2
H	HEATING							
R	RECEPTACLES	2.8	3.5	3.4	*	2.8	3.5	3.4
L	LIGHTING	3.6	1.7	1.3	125%	4.5	2.1	1.6
EQ	EQUIPMENT	2.0	1.2		100%	2.0	1.2	
WH	WATER HEATING		2.3	2.3	100%		2.3	2.3
	TOTAL					9.3	10.3	8.5

* FIRST 10 KVA AT 100%, REMAINDER AT 50% PER NEC 220-13

DESIGN KVA = 30.9 KVA
SPARE = 10%
DESIGN AMPS= 60 AMP
MOCP = 60 AMP

PANEL B

VOLTAGE: 120 / 208   A.I.C.: 10k
PHASE, WIRE: 3 PH , 4W   175 AMP MAIN C/B   MOUNTED: SURFACE

KVA			C/B		WIRE					WIRE		C/B				KVA
CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	CODE
L	1	LIGHTING	1	20	2	12	1.2	A	1.2	2	12	1	20	LIGHTING	2	L
L	3	LIGHTING	1	20	2	12	1.2	B	1.2	2	12	1	20	LIGHTING	4	L
L	5	LIGHTING	1	20	2	12	1.0	C	1.5	2	12	1	20	LIGHTING	6	L
R	7	RECEPTACLES	1	20	2	12	0.8	A	1.0	2	12	1	20	ADULT CHANGING TABLE	8	EQ
R	9	RECEPTACLES	1	20	2	12	0.4	B	1.0	2	12	1	20	RECEPTACLES	10	R
R	11	RECEPTACLES	1	20	2	12	0.8	C	0.6	2	12	1	20	RECEPTACLES	12	R
R	13	RECEPTACLES	1	20	2	12	0.8	A	0.8	2	12	1	20	RECEPTACLES	14	R
R	15	STEAM TABLE	1	30	2	10	2.0	B	0.8	2	12	1	20	RECEPTACLES	16	R
R	17	RECEPTACLES- REF	1	20	2	12	1.2	C	1.0	2	12	1	20	RECEPTACLES	18	R
R	19	RECEPTACLES- FREEZER	1	20	2	12	1.6	A	0.8	2	12	1	20	RECEPTACLES	20	R
R	21	RECEPTACLES	1	20	2	12	1.8	B	1.7	2	12	1	20	HAND DRYER	22	EQ
R	23	RECEPTACLES	1	20	2	12	0.6	C	1.7	2	12	1	20	HAND DRYER	24	EQ
R	25	RECEPTACLES	1	20	2	12	0.4	A	1.4	2	12	1	20	RECEPTACLES	26	R
R	27	RECEPTACLES	1	20	2	12	0.6	B	0.7	2	12	1	20	RECEPTACLES	28	R
R	29	RECEPTACLES	1	20	2	12	0.6	C	1.2	2	12	1	20	RECEPTACLES	30	R
F	31	EF-1 (ON ROOF)	1	20	2	12	0.2	A				2	30	SPARE	32	
AC	33	CONDENSING UNIT-1	3	60	3	6	4.6	B							34	
AC	35						4.6	C	2.0	2	10	1	30	ICE MACHINE	36	EQ
AC	37						4.6	A				1	20	SPARE	38	
	39	SPARE	1	20				B						SPARE	40	
	41	SPARE	1	20				C						SPARE	42	

TOTAL DEMAND KVA (PER PHASE): A: 13.8   B: 14.8   C: 15.9   DESIGN KVA: 48   DESIGN AMPS: 79

NOTES:

		CONN. KVA			DEMAND	DEMAND KVA		
CD	DESCRIPTION	A	B	C	FACTOR	A	B	C
AC	AIR CONDITIONING	4.6	4.6	4.6	100%	4.6	4.6	4.6
H	HEATING							
R	RECEPTACLES	6.6	7.3	6.0	*	5.0	5.5	4.5
L	LIGHTING	2.4	2.4	2.5	125%	3.0	3.0	3.1
F	FANS	0.2			100%	0.2		
EQ	EQUIPMENT	1.0	1.7	3.7	100%	1.0	1.7	3.7
	TOTAL					13.8	14.8	15.9

* FIRST 10 KVA AT 100%, REMAINDER AT 50% PER NEC 220-13

DESIGN KVA = 47.7 KVA
SPARE = 10%
DESIGN AMPS= 87 AMP
MOCP = 100 AMP

PANEL C

VOLTAGE: 120 / 208   A.I.C.: 10k
PHASE, WIRE: 3 PH , 4W   125 AMP MAIN C/B   MOUNTED: SURFACE

KVA			C/B		WIRE					WIRE		C/B				KVA
CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	CODE
L	1	LIGHTING	1	20	2	12	1.2	A	1.2	2	12	1	20	LIGHTING	2	L
L	3	LIGHTING	1	20	2	12	1.2	B	0.5	2	12	1	20	LIGHTING	4	L
L	5	EXTERIOR LIGHTING	1	20	2	12	0.8	C	0.5	2	12	1	20	LIGHTING	6	L
R	7	RECEPTACLES	1	20	2	12	1.2	A	0.4	2	12	1	20	RECEPTACLES	8	R
R	9	RECEPTACLES	1	20	2	12	0.8	B	0.4	2	12	1	20	RECEPTACLES	10	R
R	11	RECEPTACLES	1	20	2	12	1.5	C	0.4	2	12	1	20	RECEPTACLES	12	R
R	13	RECEPTACLES	1	20	2	12	1.2	A	0.4	2	12	1	20	RECEPTACLES	14	R
R	15	RECEPTACLES	1	20	2	12	1.0	B	0.4	2	12	1	20	RECEPTACLES	16	R
R	17	RECEPTACLES	1	20	2	12	0.6	C	0.4	2	12	1	20	RECEPTACLES	18	R
R	19	RECEPTACLES	1	20	2	12	0.8	A	0.4	2	12	1	20	RECEPTACLES	20	R
R	21	RECEPTACLES	1	20	2	12	1.2	B	0.4	2	12	1	20	RECEPTACLES	22	R
R	23	RECEPTACLES	1	20	2	12	1.2	C	0.4	2	12	1	20	RECEPTACLES	24	R
R	25	RECEPTACLES	1	20	2	12	0.8	A	0.4	2	12	1	20	RECEPTACLES	26	R
R	27	RECEPTACLES	1	20	2	12	0.8	B	0.4	2	12	1	20	RECEPTACLES	28	R
R	29	RECEPTACLES	1	20	2	12	0.8	C	0.8	2	12	1	20	RECEPTACLES	30	R
R	31	RECEPTACLES ROOF	1	20	2	12	0.4	A	1.2	2	12	1	20	DRINKING FOUNTAIN	32	EQ
EQ	33	CAMERAS	1	20	2	12	1.2	B	0.0	0	0	1	20	SPARE	34	0.0
EQ	35	CAMERAS	1	20	2	12	1.2	C	0.0	0	0	1	20	SPARE	36	0.0
EQ	37	CAMERAS	1	20	2	12	1.2	A	0.0	0	0	1	20	SPARE	38	0.0
EQ	39	CAMERAS	1	20	2	12	1.2	B	0.0	0	0	1	20	SPARE	40	0.0
EQ	41	CAMERAS	1	20	2	12	1.2	C	0.0	0	0	1	20	SPARE	42	0.0

TOTAL DEMAND KVA (PER PHASE): A: 8.3   B: 6.9   C: 6.9   DESIGN KVA: 25   DESIGN AMPS: 42

NOTES:

		CONN. KVA			DEMAND	DEMAND KVA		
CD	DESCRIPTION	A	B	C	FACTOR	A	B	C
AC	AIR CONDITIONING	0.0	0.0	0.0	0%	0.0	0.0	0.0
H	HEATING	0.0	0.0	0.0	0%	0.0	0.0	0.0
R	RECEPTACLES	4.8	4.2	5.3	*	4.1	3.6	4.5
L	LIGHTING	2.4	1.7	1.3	125%	3.0	2.1	1.6
	0	2.4	2.4	2.4	0%	0.0	0.0	0.0
EQ	EQUIPMENT	1.2	1.2	0.8	100%	1.2	1.2	0.8
0	0	0.0	0.0	0.0	0%	0.0	0.0	0.0
	TOTAL					8.3	6.9	6.9

* FIRST 10 KVA AT 100%, REMAINDER AT 50% PER NEC 220-13

DESIGN KVA = 24.9 KVA
SPARE = 10%
DESIGN AMPS= 46 AMP
MOCP = 60 AMP

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Professional Certification:

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland, license number 05-16001, expiration date 4-26-26.

NO	DATE	DESCRIPTION

HARFORD SENIOR CENTER RENOVATIONS
4920 HARFORD RD, BALTIMORE, MD 21214
PROJECT NO. PRJ000889

ELECTRICAL PANELS

STATE OF MARYLAND PROFESSIONAL ENGINEER No. 16001

3/12/26

SHEET E-200

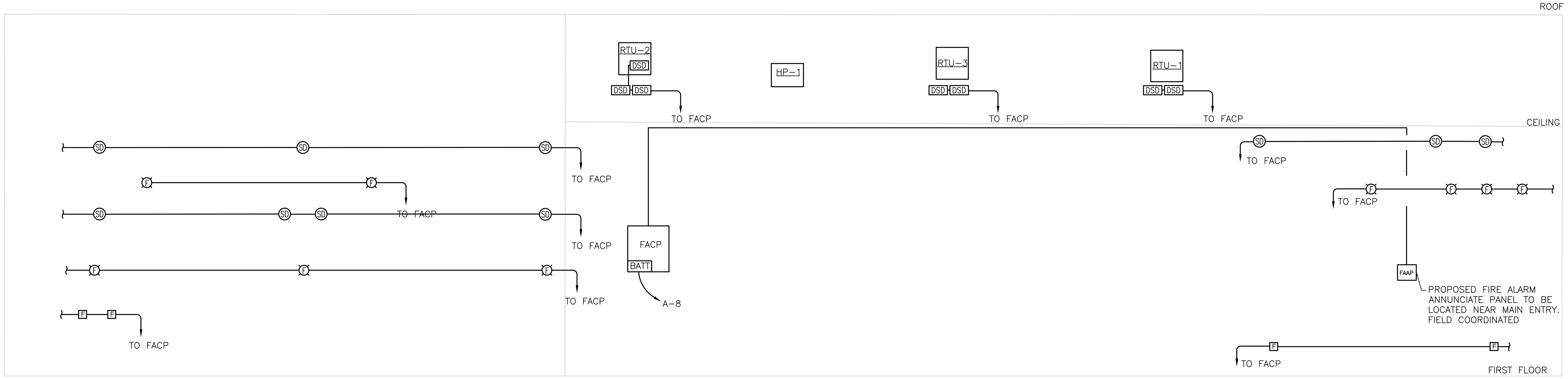
JCE NO. 2017.36 PRINTED:01/24/2025

GENERAL FIRE ALARM NOTES:

1.) REFER TO DRAWINGS FOR LOCATION,QUANTITIES AND CD RATINGS OF DEVICES.(ALSO SEE NOTE BELOW.)

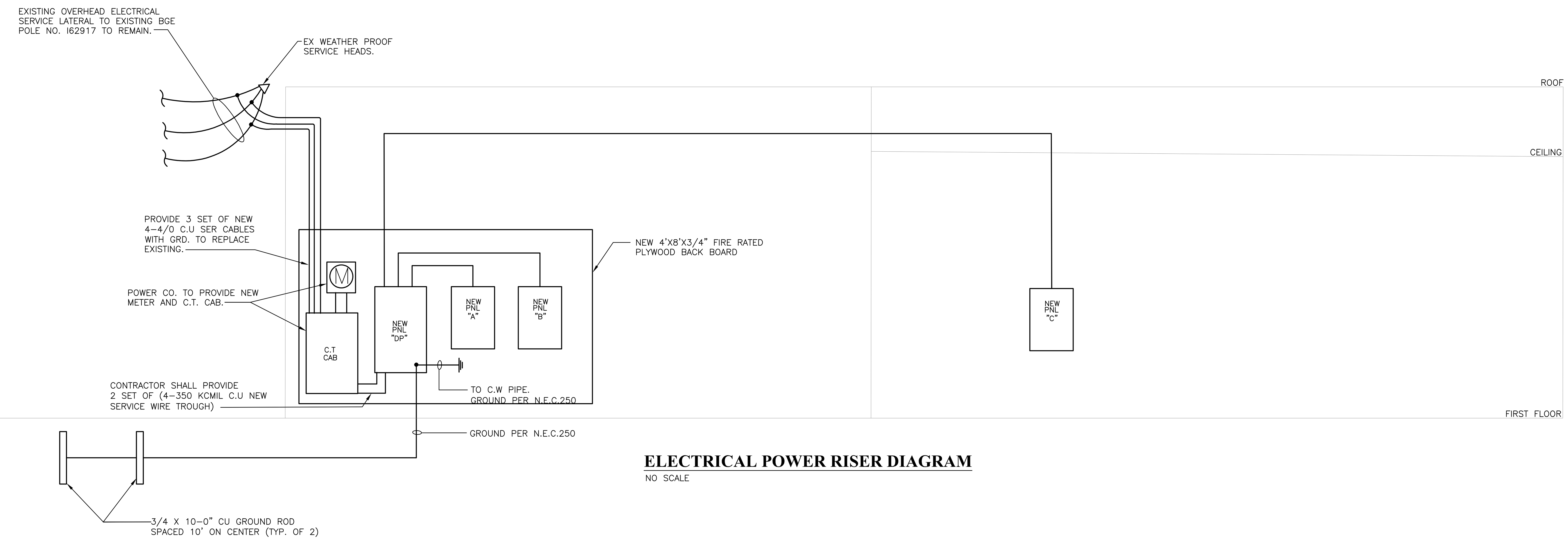
2.) CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR LOCATION OF DUCT SMOKE DETECTORS.

3.) FIRE ALARM SYSTEM AS SHOWN ON THESE PLANS ARE DIAGRAMMATIC IN DESIGN AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN INCLUDING ALL REQUIRED EQUIPMENT AND WIRING AS NECESSARY TO COMPLY WITH ALL APPLICABLE CODES. WHETHER SHOWN ON THE PLANS OR NOT.



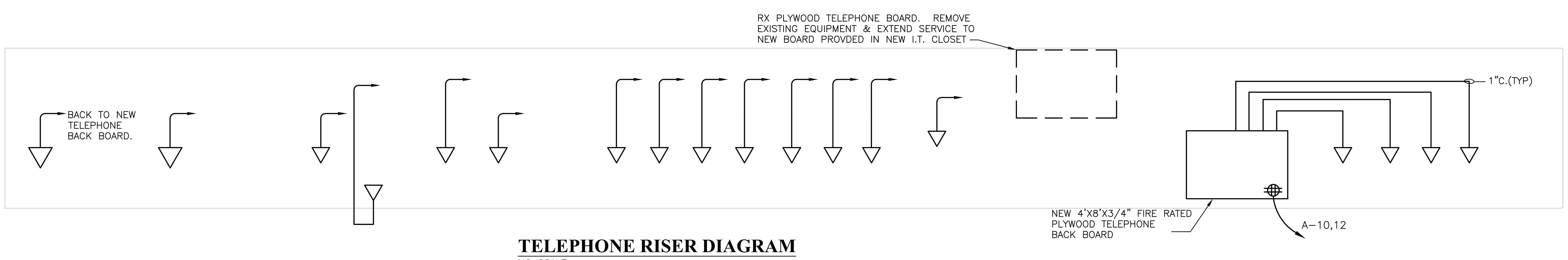
FIRE ALARM RISER DIAGRAM

NO SCALE



ELECTRICAL POWER RISER DIAGRAM

NO SCALE



TELEPHONE RISER DIAGRAM

NO SCALE

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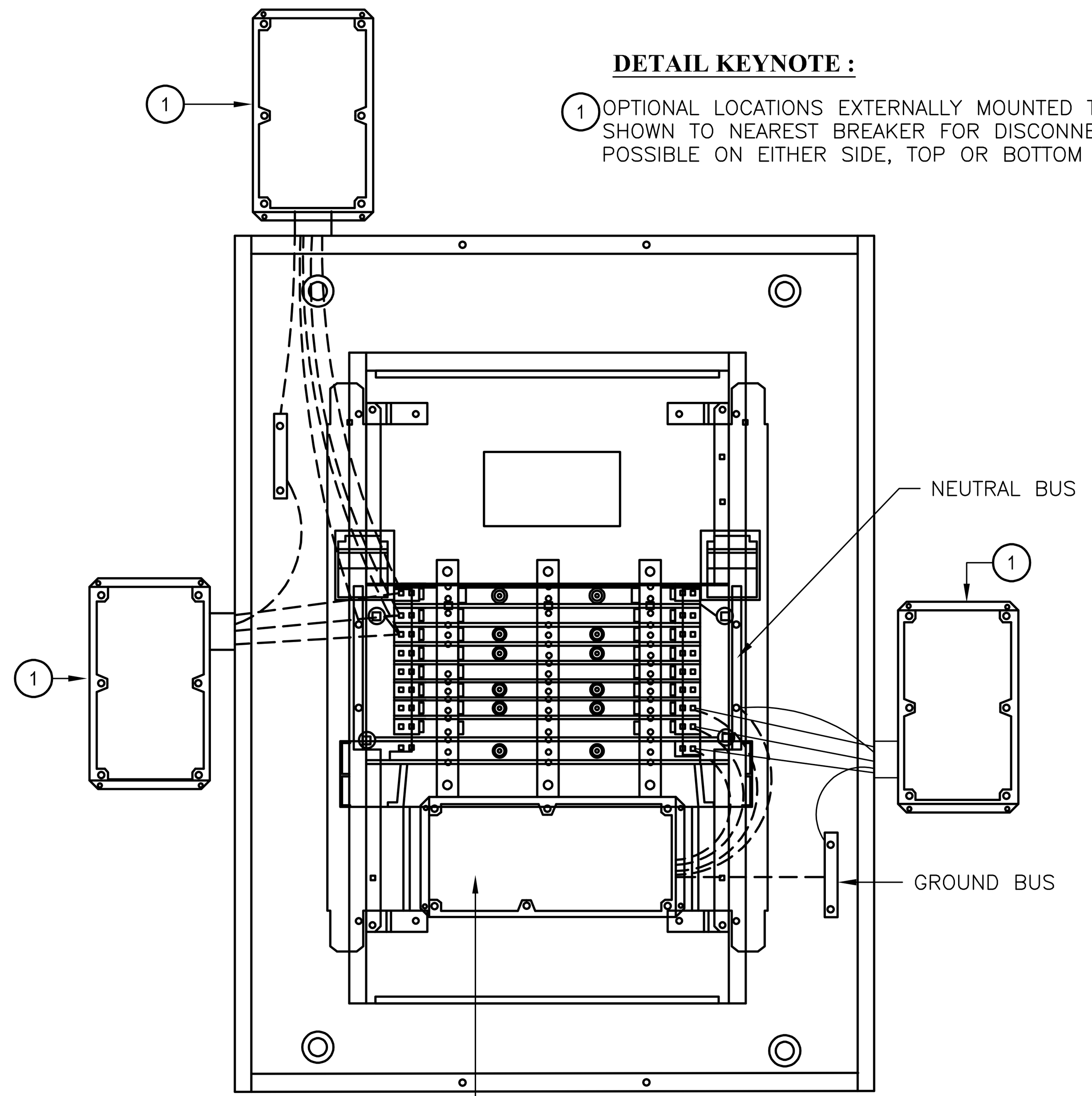
ELECTRICAL RISER DIAGRAM

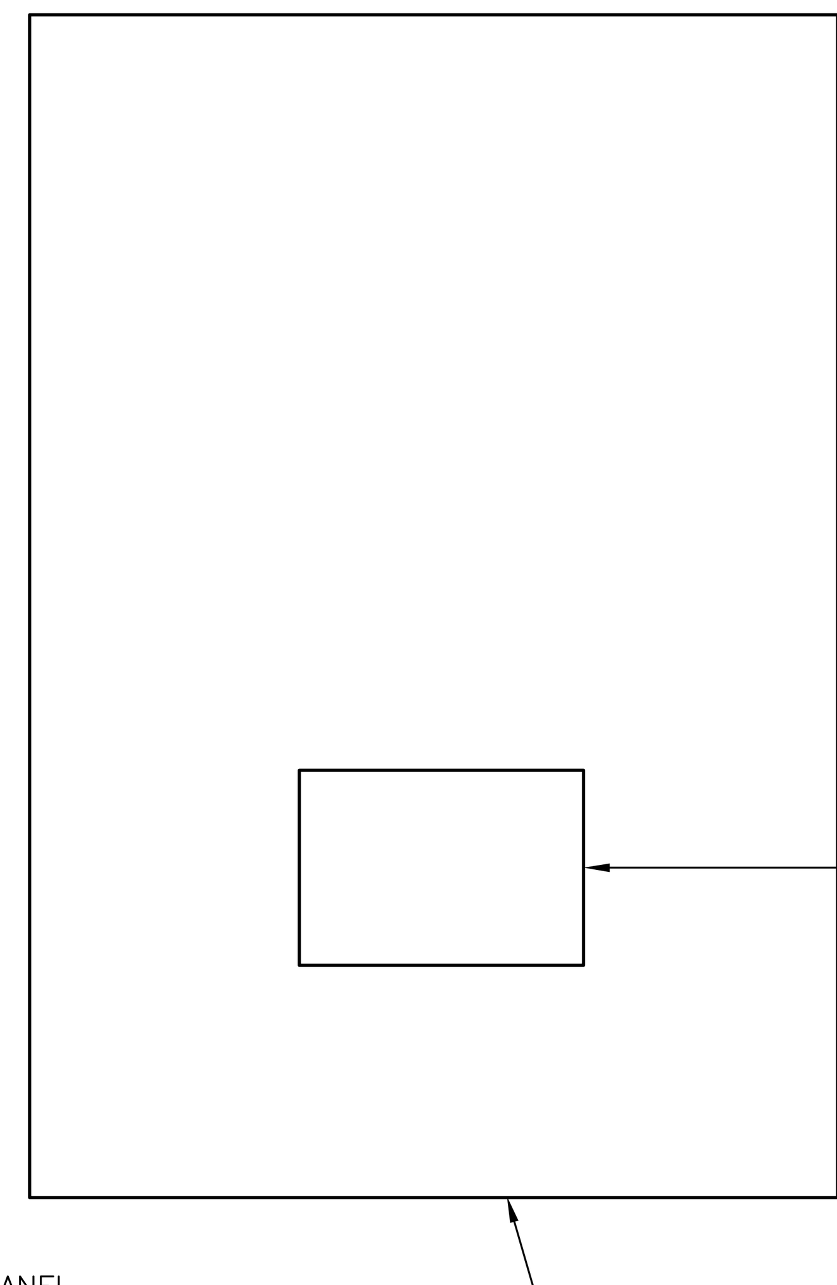
3/12/26

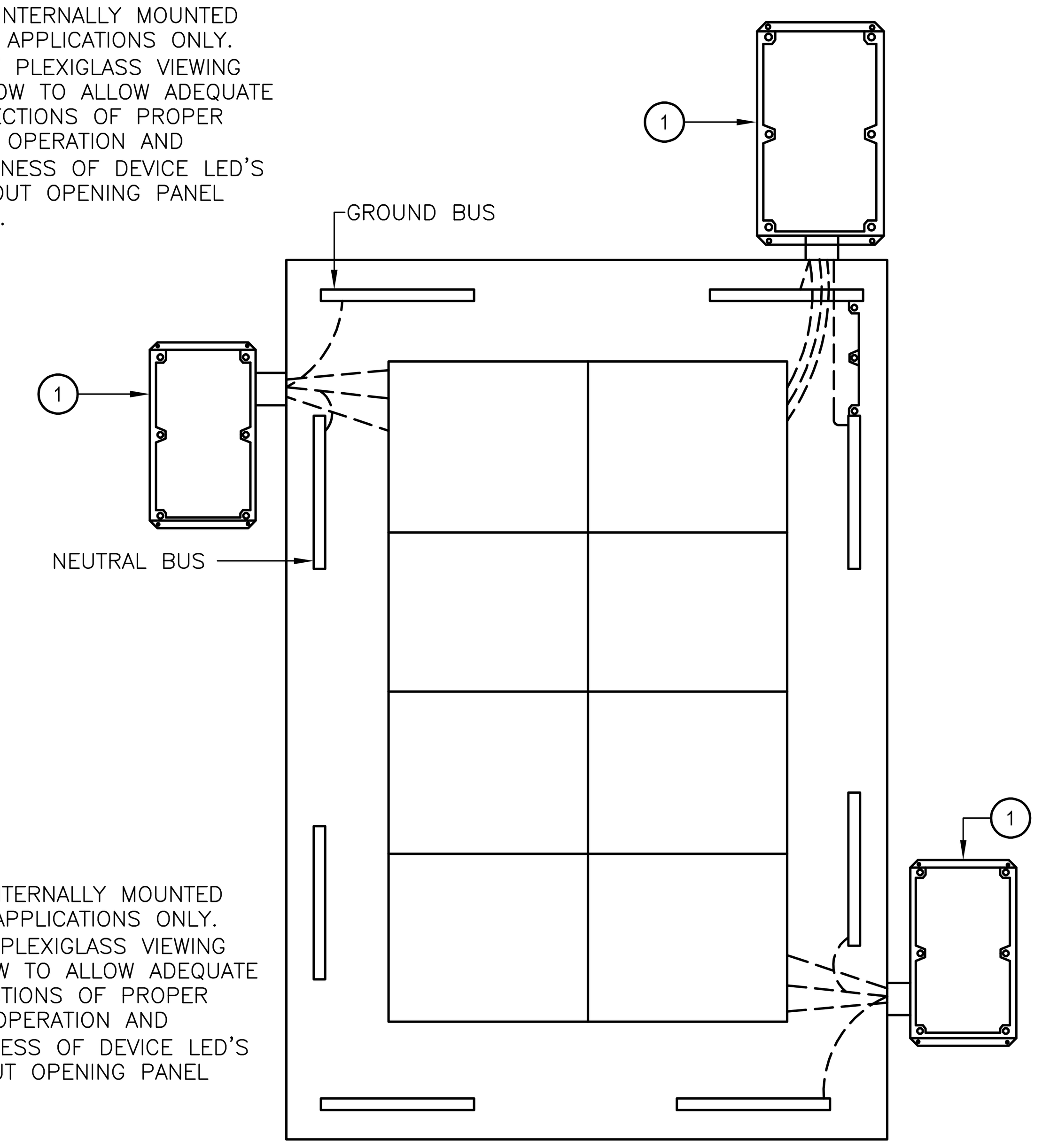
SHEET E-201

DETAIL KEYNOTE :

1. OPTIONAL LOCATIONS EXTERNALLY MOUNTED TVSS. WIRE CONNECTIONS SHOWN TO NEAREST BREAKER FOR DISCONNECT. INSTALLATION IS POSSIBLE ON EITHER SIDE, TOP OR BOTTOM OF THE PANEL.







GENERAL NOTES:

1. PROVIDE A MULTIPOLE, 30 AMP CIRCUIT BREAKER AS A DEDICATED DISCONNECT FOR SUPPRESSOR, IN PROPER COORDINATION WITH VOLTAGE CONFIGURATION OF PROTECTED EQUIPMENT.

2. INSTALL DEVICES FOR DISTRIBUTION PANELBOARDS, BRANCH PANELBOARDS AND ENCLOSED CIRCUIT BREAKERS WITH CONDUCTORS BETWEEN SUPPRESSOR AND POINTS OF ATTACHMENT AS SHORT AND STRAIGHT AS POSSIBLE. DO NOT EXCEED MANUFACTURER'S RECOMMENDED LEAD LENGTH. DO NOT BOND NEUTRAL AND GROUND.

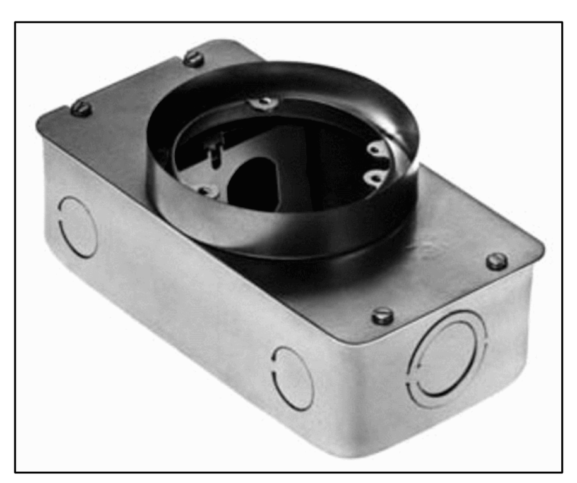
3. THE LOCATION OF THE TVSS SHALL BE CHOSEN TO MINIMIZE THE LEAD LENGTHS BETWEEN THE TVSS AND THE CIRCUIT BREAKER TO WHICH IT IS CONNECTED. TVSS DEVICE LEADS WHICH ARE MOUNTED EXTERNAL TO THE PANEL (ENCLOSED CIRCUIT BREAKERS), MUST BE ROUTED WITHIN A METAL CONDUIT WHEN NECESSARY (RIGID NIPPLE IF POSSIBLE), AND KEPT AS SHORT AND STRAIGHT AS POSSIBLE. WIRE SIZE FOR LEAD SHALL BE AS SPECIFIED BY MANUFACTURER, MINIMUM SIZE #10 AWG, MAXIMUM SIZE #4 AWG.

4. SURGE PROTECTIVE DEVICES SHALL BE INSTALLED NEATLY. BIND THE PHASE, NEUTRAL, AND GROUND CONDUCTORS TIGHTLY, OVER THE ENTIRE RUN, FROM THE SUPPRESSOR TO THE PANEL (ENCLOSED CIRCUIT BREAKER). AND ALWAYS USE THE SHORTEST LENGTH OF CONNECTING CABLE POSSIBLE.

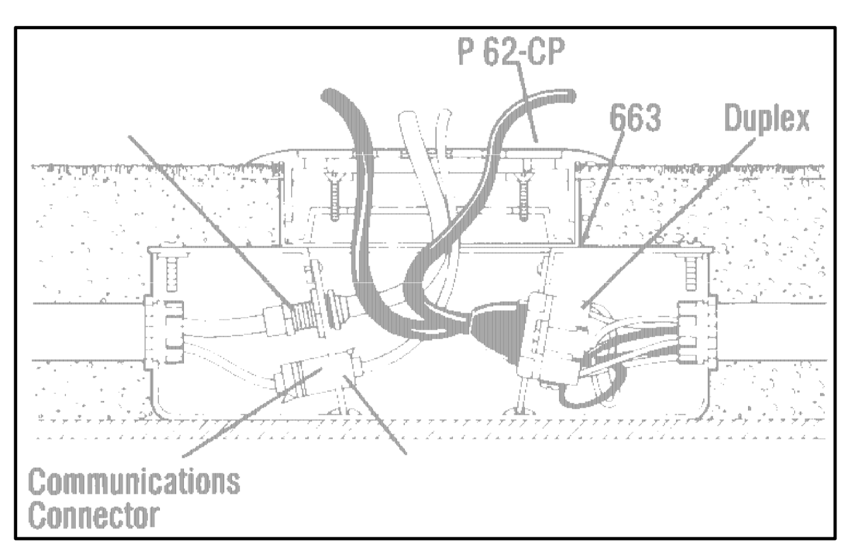
5. CONNECT SURGE PROTECTOR TO THE GROUNDING SYSTEM.

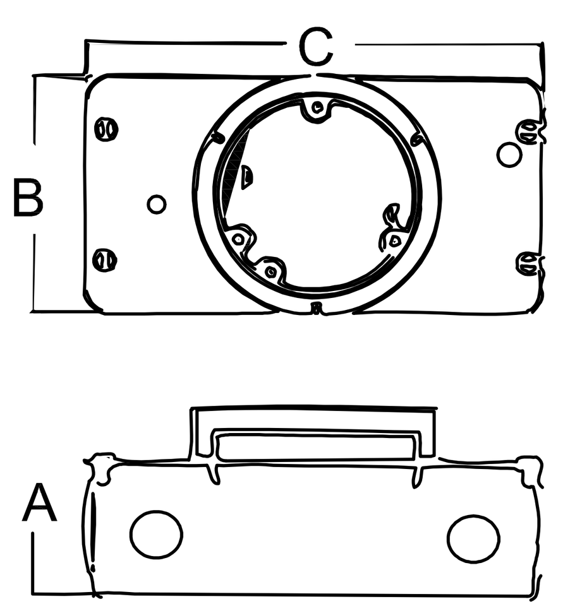
6. NEMA 4 RATED ENCLOSURE FOR INDOOR APPLICATIONS (WHERE FIRE SOPPRESSION SYSTEM MAY BE UTILIZED) AND NEMA 4X RATED ENCLOSURE FOR OUTDOOR APPLICATIONS.

A / E-300 TVSS-PANELBOARD INSTALLATION DETAIL
NO SCALE

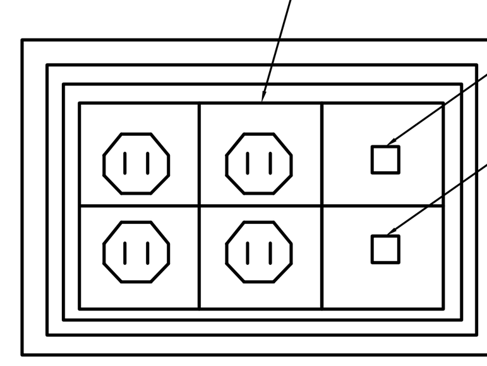


663-SC



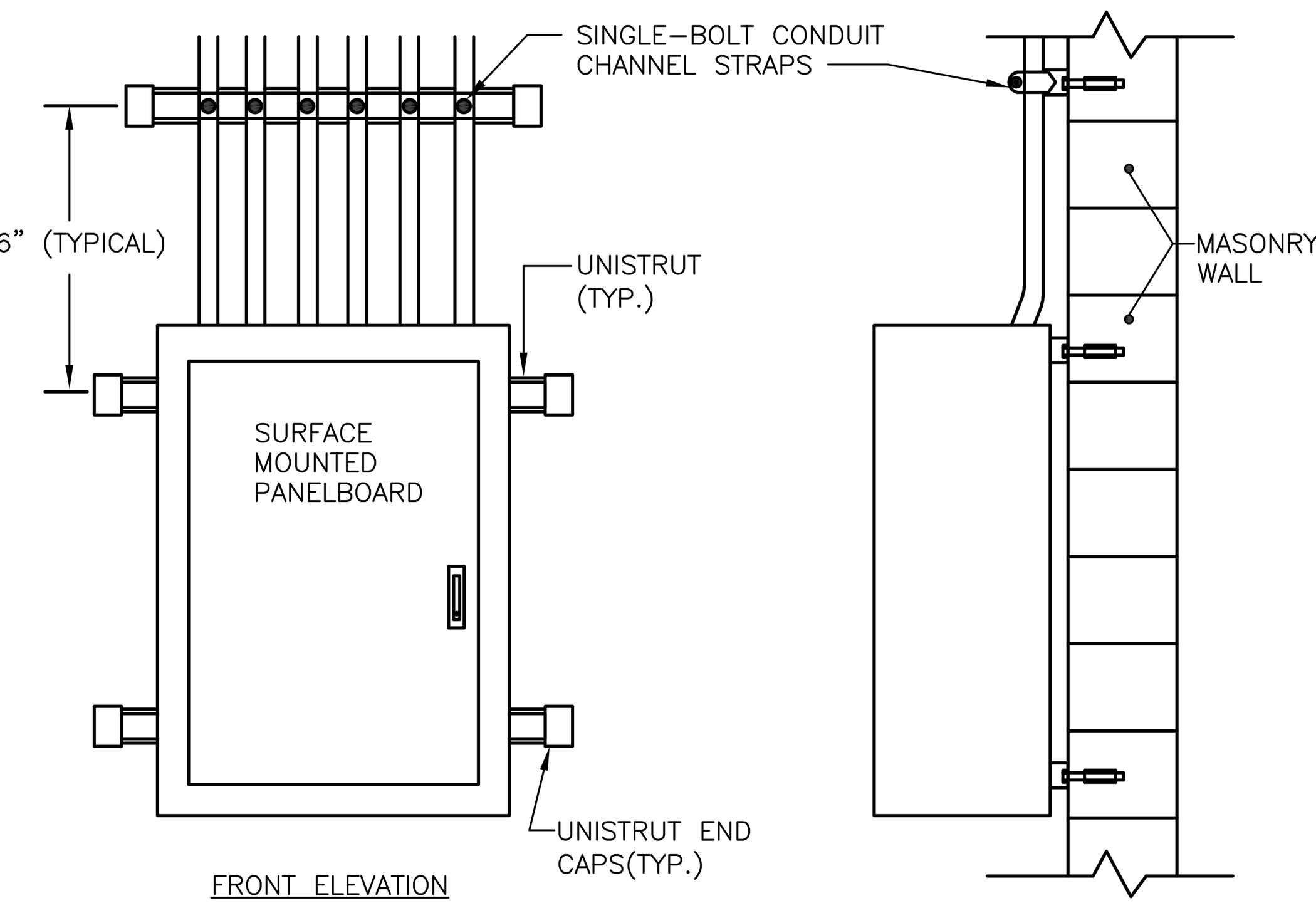


B / E-300 CONCEALED SERVICE FLOOR BOXES
NO SCALE

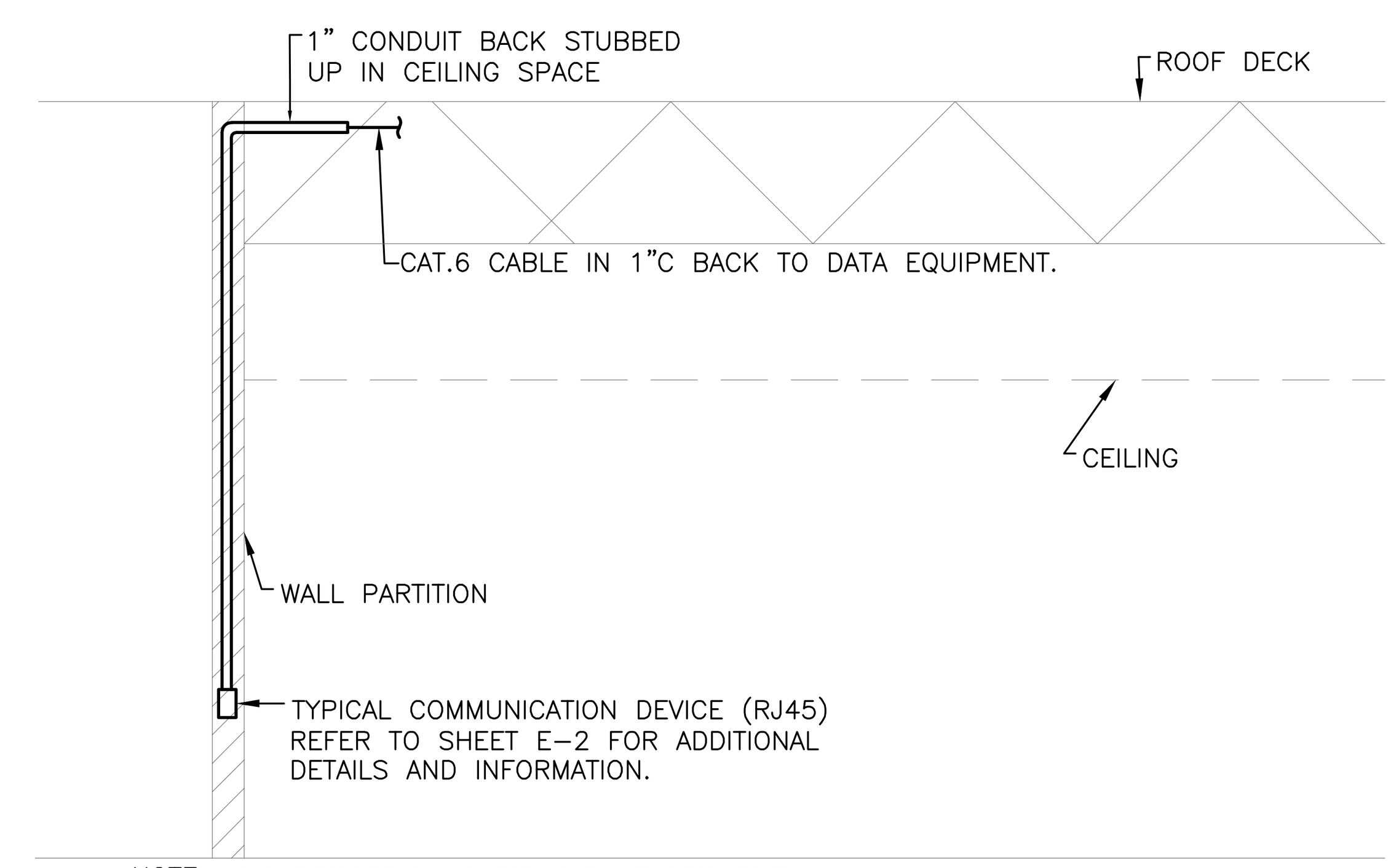


C / E-300 TYPICAL COMPUTER STATION DETAIL
NO SCALE

NOTES:
1. CONTRACTOR SHALL PROVIDE SINGLE GANG BOX WALL MOUNTED FOR POWER/TV DEVICES AND A SINGLE GANG BOX FOR DATA DEVICES.
2. CONTRACTOR SHALL PROVIDE RAPID RUN CABLING SYSTEM TYPE AT DEVICE SHOWN. COORDINATE WITH OWNER'S I.T SYSTEM PERSONEL DEVICE, PRIOR TO ROUGH-INS.
3. COORDINATE SYSTEM TYPE WITH OWNER'S I.T PERSONNEL, ALL REQUIREMENTS PRIOR TO ROUGH-INS.
4. PROVIDE SEPARATE JUNCTION BOXES FOR POWER AND DATA.



D / E-300 PANELBOARD MOUNTING DETAIL
NO SCALE



NOTE:FIELD COORDINATE LENGTH OF SLACK CABLE TO BE LEFT IN DATA ROOM.

E / E-300 DETAIL OF TYPICAL COMMUNICATION OUTLET
NO SCALE

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SHEET E-300

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