HEALTH TECHNOLOGY BUILDING RENOVATION

COLLEGE OF SOUTHERN MARYLAND

RRMM ARCHITECTS, PC

ARCHITECTURE / PLANNING / INTERIORS

1317 Executive Boulevard, Suite 200
Chesapeake, VA 23320
(757) 622-2828

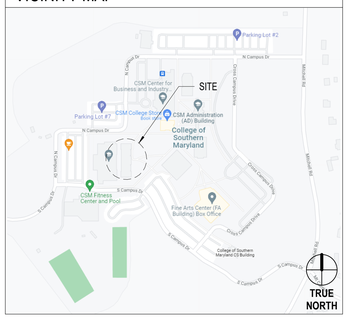
115 South 15th Street, Suite 202
Richmond, VA 23219
(804) 277-8987

2900 South Quincy Street, Suite 710
Arlington, VA 22206
(703) 998-0101

28 Church Avenue SW
Roanoke, VA 24011
(540) 344-1212

1 Research Court, Suite 450
Rockville, MD 20850
(240) 403-4101

VICINITY MAP



CONSULTANTS

COLLINSON OLIFF & ASSOCIATES, INC.
CIVIL ENGINEERING
110 MAIN ST.
PRINCE FREDERICK, MD 20678
(410) 535-3101

CENTURY ENGINEERING, INC.
MEP ENGINEERING
10710 GILROY ROAD
HUNT VALLEY, MD 21031
(443) 589-2400

WRIGHT ENGINEERING, LLC
TECHNOLOGY / SECURITY / AV
853 RIPPLE STREAM COURT
JOPPA, MD 21085
(410)-877-6297

COLUMBIA ENGINEERING
STRUCTURAL ENGINEERING
6210 OLD DOBBIN LANE SUITE 150
COLUMBIA. MD 21045
(410) 992-9970

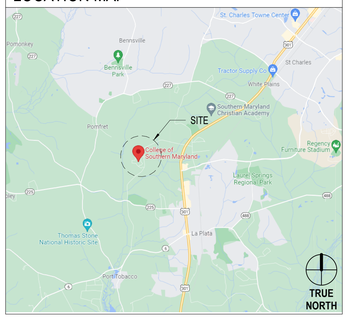
FLOURA TEETER LANDSCAPE ARCHITECTS
LANDSCAPE ARCHITECTURE
800 N CHARLES ST STE 300
BALTIMORE, MD 21201
(410) 528-8395

DOWNEY & SCOTT, LLC
COST CONSULTANT / VALUE ENGINEERING
6799 KENNEDY ROAD UNIT F
WARRENTON, VA 20187
(540) 347-5001

OWNER

COLLEGE OF SOUTHERN MARYLAND
JILL WATHEN, PROJECT MANAGER
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD, 20646-0910
P: (301) 934-2251
F: (301) 539-4786

LOCATION MAP



BUILDING CODE DESIGN SUPPORTING DATA

PROJECT BASIC DESCRIPTION
THE HEALTH AND TECHNOLOGY BUILDING (HT) IS LOCATED ON CAMPUS DRIVE AT THE LA PLATA CAMPUS OF THE COLLEGE OF SOUTHERN MARYLAND (CSM), CHARLES COUNTY. THE BUILDING WAS BUILT APPROXIMATELY IN 1989. THE MECHANICAL SYSTEMS OF THE BUILDING UNDERWENT A RENOVATION IN 2017.

THIS PROJECT IS A COMPLETE INTERIOR RENOVATION OF THE HT BUILDING TO CREATE A STUDENT RESOURCES CENTER (SRC) BUILDING. THIS RENOVATION INCLUDES THE INSTALLATION OF A SPRINKLER SYSTEM. ONE NEW VESTIBULE WILL BE ADDED TO THE NORTH BUILDING ENTRANCE.

A. APPLICABLE CODES
1. REFERENCED BUILDING CODES
   2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
   LEVEL 3 ALTERATION. NO CHANGE IN OCCUPANCY AS A RESULT FROM THIS RENOVATION.
   2018 INTERNATIONAL BUILDING CODE (IBC) AS REFERENCED IN THE IEBC
   2018 NFPA 101 LIFE SAFETY CODE AND NFPA 1 FIRE CODE (STATE FIRE PREVENTION CODE)
   2018 INTERNATIONAL ENERGY CONSERVATION CODE
   2018 INTERNATIONAL GREEN CONSTRUCTION CODE (IgCC)
2. ACCESSIBILITY CODE:
   2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN - SEPTEMBER 15, 2010

B. BUILDING GROUP USE CLASSIFICATION
1. PER IBC 302.1 BUILDING OCCUPANCY CLASSIFICATION
   BUSINESS B
   ASSEMBLY A-3
2. PER IBC 508.1 OCCUPANCY CLASSIFICATION: MIXED OCCUPANCY
3. PER IBC 508.3 NONSEPARATED OCCUPANCY

C. CONSTRUCTION TYPE
PER IBC 602.1 CONSTRUCTION TYPE:
TYPE IIIB UNPROTECTED (SPRINKLERED) IS ASSUMED FOR THIS ANALYSIS

D. BUILDING AREA AND HEIGHT LIMITATION
1. BUILDING HEIGHT AND NUMBER OF STORIES ALLOWABLE PER IBC 504
   75 FT. - 3 STORIES (A-3)
2. ALLOWABLE AREA FACTOR PER IBC 506
   38,000 SF. (A-3)

EXISTING HEIGHT AND AREA ARE ACCEPTABLE.
ONE NEW VESTIBULE ON THE NORTH BUILDING ENTRANCE WILL NOT INCREASE THE BUILDING HEIGHT

3. ACTUAL GROSS BUILDING AREAS

LOWER LEVEL EXISTING:	1,355 SF
FIRST LEVEL EXISTING:	17,644 SF
TOTAL BUILDING EXISTING:	18,999 SF
FIRST FLOOR NEW:	17,721 SF

E. FIRE PROTECTION SYSTEMS
1. ENTIRE BUILDING WILL BE SPRINKLERED THROUGHOUT PER IBC 903.1, THE INTERNATIONAL FIRE CODE AND NFPA 13 (PER IBC 903.3.1)
2. FIRE EXTINGUISHERS ARE PROVIDED THROUGHOUT PER 906.1
3. FIRE ALARM SYSTEM IS PROVIDED THROUGHOUT

F. FIRE RESISTANCE REQUIREMENTS
PER IBC TABLE 601

PRIMARY STRUCTURAL FRAME	0 HR.
EXTERIOR BEARING WALLS	2 HRS.
EXTERIOR NON-BEARING WALLS	PER TABLE 602
INTERIOR BEARING WALLS	0 HR.
INTERIOR NON-BEARING WALLS	0 HR.
FLOOR/CEILING CONSTRUCTION	0 HR.
ROOF/CEILING CONSTRUCTION	0 HR.

EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (PER IBC TABLE 602):

LESS THAN 30'	1 HR
GREATER OR EQUAL TO 30'	0 HR

IBC TABLE 1020.1 CORRIDOR FIRE RESISTANCE RATING
OCCUPANCY GROUPS A AND B WITH SPRINKLER SYSTEM 0 HR

G. AREA ALLOWANCE PER OCCUPANT (PER IBC TABLE 1004.5)
SEE OCCUPANCY PLAN AND CALCULATIONS ON SHEET LS-101

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS)	15	NET
BUSINESS AREAS	150	GROSS
BUSINESS - CONCENTRATED USE AREAS (SECTION 1004.8)	50	GROSS

H. MEANS OF EGRESS

IBC TABLE 1017.2 EXIST ACCESS TRAVEL DISTANCE
OCCUPANCY GROUP A 250' WITH SPRINKLER SYSTEM
OCCUPANCY GROUP B 300' FEET WITH SPRINKLER SYSTEM

IBC TABLE 1006.2.1 COMMON PATH OF TRAVEL
OCCUPANCY GROUP A 75' WITH SPRINKLER SYSTEM
OCCUPANCY GROUP B 100' WITH SPRINKLER SYSTEM

IBC 1020.4 DEAD ENDS
NO MORE THAN 20' - GROUP A
NO MORE THAN 50' - GROUP B (EXCP. 2)

IBC TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER FLOOR
2 EXITS MIN FOR 500 OCCUPANTS OR LESS
5 EXITS PROVIDED

EGRESS CAPACITY CALCULATION
PER IBC 1005.3.2 EGRESS WIDTH PER OCCUPANT (EXCP. 1 WITH SPRINKLER SYSTEM)

OTHER EGRESS COMPONENTS	0.15 INCH PER OCCUPANT
DESIGN OCCUPANCY	331 OCCUPANTS (SEE DRAWING LS-101)
EGRESS CAPACITY - REQUIRED	50 INCHES
PROVIDED	178 INCHES

I. INTERIOR FINISH REQUIREMENTS BY OCCUPANCY TABLE 803.13 (SPRINKLERED)

GROUP	EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
A-3	CLASS B	CLASS B	CLASS C
B	CLASS B	CLASS C	CLASS C

J. PLUMBING FIXTURE REQUIREMENTS
SEE SHEET LS-101 FOR PLUMBING FIXTURE DATA AND CALCULATIONS

2018 INTERNATIONAL ENERGY CONSERVATION CODE - NEW CONSTRUCTION (TABLE 301.1)
CLIMATE ZONE 4A - CHARLES COUNTY, MARYLAND

PER IEBC 907.1 ONLY THE ALTERATIONS SHALL CONFORM TO NEW CONSTRUCTION ENERGY REQUIREMENTS.

BUILDING ENVELOPE REQUIREMENTS - FENESTRATIONS
METAL FRAMING STOREFRONT
U-FACTOR 0.50
ENTRANCE DOOR
U-FACTOR 0.85
ALL OTHER (OPERABLE AND FIXED WINDOWS, NON-ENTRANCE DOORS
U-FACTOR 0.55
SHGC ALL FRAME TYPES

PROJECTION FACTOR <0.25	SHGC 0.40
PROJECTION FACTOR 0.25 <= PF < 0.5	NOT REQUIRED
PROJECTION FACTOR: >0.5	NOT REQUIRED

GLASS U-FACTOR 0.60; SHGC 0.40

LEAD MATERIALS DISCLOSURE STATEMENT

1. AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS NOT BEEN CONDUCTED BECAUSE THE BUILDING WAS CONSTRUCTED AFTER JANUARY 1, 1985 AND THE OWNER HAS NO KNOWLEDGE OF LEAD CONTAINING OR COATED BUILDING COMPONENTS IN THE BUILDING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL MARYLAND OCCUPATIONAL SAFETY AND HEALTH (MOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD. **ALL LEAD AND LEAD-COATED BUILDING COMPONENTS SHALL BE RECYCLED TO THE EXTENT POSSIBLE**

ASBESTOS DISCLOSURE STATEMENT

1. NO ASBESTOS CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT
2. AN ASBESTOS INSPECTION WAS NOT PERFORMED BECAUSE ALL PORTIONS OF THE EXISTING BUILDING THAT MAY BE AFFECTED BY THE WORK WERE ORIGINALLY CONSTRUCTED AFTER JANUARY 1, 1985

USING AGENCY APPROVAL
Name: Date:
Title:
DGS APPROVAL
Project Manager: Date:
Chief of PM&CD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REITH MCCARD No. 18837 ARCHITECT

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
TITLE SHEET

SHEET
G-001

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

2/14/2023 1:19:52 PM

SHEET INDEX

Sheet Number	Sheet Title
PROJECT TITLE SHEET	
G-001	TITLE SHEET
G-002	SHEET INDEX
LIFE SAFETY	
LS-101	LIFE SAFETY PLAN - FIRST FLOOR
LS-102	UL DESIGN ASSEMBLY
CIVIL	
C 1.0	COVER SHEET
C 2.0	GRADING & STORM DRAINAGE PLAN
C 2.1	STORMDRAIN PROFILE & DETAILS
C 3.0	PRE & POST DEVELOPMENT DRAINAGE AREA MAP
C 3.1	STORM WATER MANAGEMENT PLAN
C 3.2	STORM WATER MANAGEMENT DETAILS
C 4.0	SITE & LAYOUT PLAN
C 4.1	SITE & LAYOUT DETAILS
C 5.0	DEMOLITION PLAN
C 6.0	SEDIMENT & EROSION CONTROL PLAN
C 6.1	SEDIMENT & EROSION CONTROL DETAILS
LANDSCAPE ARCHITECTURE	
L-100	OVERALL HARDSCAPE AND LAYOUT PLAN
L-200	PLANTING PLAN
L-300	SITE DETAILS
L-400	PLANTING DETAILS
STRUCTURAL	
S-001	GENERAL NOTES
S-002	INSPECTION TABLES
S-101	FOUNDATION AND SLAB ON GRADE PLAN
S-102	ROOF FRAMING PLAN
S-301	TYPICAL DETAILS
S-302	TYPICAL DETAILS
S-401	SECTIONS
ARCHITECTURAL DEMOLITION	
AD-100	GENERAL DEMOLITION NOTES
AD-101	FIRST FLOOR - DEMOLITION PLAN
AD-102	FIRST FLOOR - DEMOLITION RCP
AD-103	ROOF - DEMOLITION PLAN
ARCHITECTURAL	
A-001	ARCHITECTURAL GENERAL INFORMATION
A-002	ARCHITECTURAL GENERAL INFORMATION
A-003	PARTITION TYPES, PARTITION TERMINATION DETAILS
A-100	ARCHITECTURAL SITE PLAN
A-101	OVERALL FLOOR PLANS
A-102	FIRST FLOOR PLAN - NORTH
A-103	FIRST FLOOR PLAN - SOUTH
A-104	FIRST FLOOR REFLECTED CEILING PLAN
A-105	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-202	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-302	BUILDING SECTIONS
A-303	WALL SECTIONS
A-304	WALL SECTIONS - DETAILS
A-305	WALL SECTIONS - DETAILS
A-401	ENLARGED TOILET PLANS AND ELEVATIONS
A-402	ENLARGED TOILET PLANS AND ELEVATIONS
A-405	INTERIOR ELEVATIONS
A-406	INTERIOR ELEVATIONS
A-407	INTERIOR ELEVATIONS
A-408	INTERIOR ELEVATIONS
A-409	INTERIOR ELEVATIONS
A-503	CEILING DETAILS
A-505	CANOPY NORTH - DETAILS
A-506	SUNSHADE EAST - DETAILS
A-507	VESTIBULE NORTH - DETAILS
A-508	VESTIBULE EAST - DETAILS
A-509	VESTIBULE SOUTH AND WEST - DETAILS
A-600	DOOR SCHEDULE, FRAMING TYPES AND NOTES
A-601	STOREFRONT AND DOOR OPENING DETAILS
A-602	CURTAIN WALL AND STOREFRONT SCHEDULES AND DETAILS
A-603	FINISH LEGEND, SCHEDULES AND NOTES
A-604	SIGNAGE LEGEND, SCHEDULE AND NOTES
A-701	FIRST FLOOR - FINISH PLAN
A-702	FIRST FLOOR SIGNAGE PLAN
A-801	CASEWORK ELEVATIONS
A-802	CASEWORK SECTIONS & DETAILS
A-901	FIRST FLOOR FURNITURE PLAN
PLUMBING	
P-001	SYMBOLS, NOTES AND ABBREVIATIONS
PD-100	LOWER FLOOR - DEMOLITION
PD-101	FIRST FLOOR - DEMOLITION
PD-102	ROOF - DEMOLITION
P-100	LOWER FLOOR - NEW WORK
P-101	FIRST FLOOR - NEW WORK
P-102	ROOF - NEW WORK

SHEET INDEX

Sheet Number	Sheet Title
P-501	PLUMBING DETAILS
P-601	RISER DIAGRAMS
P-602	RISER DIAGRAMS
P-701	PLUMBING SCHEDULE
MECHANICAL	
M-001	SYMBOLS, NOTES AND ABBREVIATIONS
MD-101	LOWER FLOOR - DEMOLITION
MD-102	FIRST FLOOR - DEMOLITION
MD-103	ROOF - DEMOLITION
M-101	LOWER FLOOR - NEW WORK
M-102	FIRST FLOOR - NEW WORK
M-103	ROOF - NEW WORK
M-201	MECHANICAL PIPING - NEW WORK
M-501	MECHANICAL DETAILS
M-601	AUTOMATIC TEMPERATURE CONTROLS
M-701	MECHANICAL SCHEDULE
M-702	MECHANICAL SCHEDULE
ELECTRICAL	
E-001	SYMBOLS, NOTES AND ABBREVIATIONS
ED-101	FLOOR PLANS - DEMOLITION
E-100	ELECTRICAL SITE PLAN
E-101	FLOOR PLANS - LIGHTING
E-102	FLOOR PLANS - POWER
E-103	FLOOR PLANS - FIRE ALARM
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL RAISER DIAGRAM
E-602	FIRE ALARM RISER DIAGRAMS AND DETAILS
E-701	EQUIPMENT SCHEDULES
E-702	PANEL SCHEDULES
E-703	PANEL SCHEDULES
TELECOM - AV	
T-001	SYMBOLS & LEGEND
T-100	TELECOM SITE PLAN
T-101	FIRST FLOOR PLAN - TELECOM
T-102	FIRST FLOOR PLAN - SECURITY
T-300	RISER DIAGRAMS
T-501	TELECOM DETAILS
T-502	TELECOM DETAILS
T-503	TELECOM DETAILS
T-504	TELECOM DETAILS
T-505	TELECOM DETAILS
T-506	TELECOM DETAILS
T-507	SECURITY DETAILS

USING AGENCY APPROVAL

Name: Date:

Title: DGS APPROVAL

Project Manager: Date:

Chief of P&M&D: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. KIMBRO
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

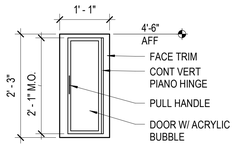
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

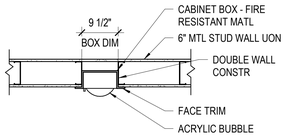
DRAWING
SHEET INDEX

SHEET
G-002

2/13/2023 4:07:56 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt



ELEVATION



IDENTIFY THE FIRE EXTINGUISHER AS REQUIRED PER THE SPECIFICATIONS. TYPICAL AT ALL LOCATIONS.

PROVIDE SEMI-RECESSED CABINET @ 3 5/8" MTL STUD PTNS. MATCH STYLE & FINISH OF FULLY RECESSED CABINET

FULLY RECESSED FIRE EXTINGUISHER CABINET

PLUMBING FIXTURE REQUIREMENTS (IPC-TABLE 403.1)

USE GROUP	WATER CLOSETS MALE	WATER CLOSET FEMALE	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK	TUBS/SHOWERS
A-3	1 PER 125	1 PER 65	1 PER 200	1 PER 500	1	0
B	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FRO THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1	0

PLUMBING FIXTURE COUNT

USE GROUP	OCCUPANT LOAD	MEN	MEN WATER CLOSET	MEN LAVATORIES	WOMEN	WOMEN WATER CLOSET	WOMEN LAVATORIES	REQUIRED WATER COSETS	REQUIRED LAVS	REQUIRED DF	REQUIRED SERVICE SINK
A-3	168	84	1	1	84	2	1	3	2	1	1
B	163	82	3	3	82	3	3	6	6	2	-
TOTAL	331							9	8	3	1

PROVIDED WATER COSETS	LAV	DF	SERVICE SINK
10 (2 UR)	8	3	1

EGRESS PATH TRAVEL DISTANCE

RRMM Egress Path Name	RRMM Path of Egress
ADMISSIONS OFFICE 110D	53' - 7"
ADVISING OFFICE 109J	38' - 5"
ADVISING OFFICE 109K	50' - 8"
COUNSELOR'S OFFICE	58' - 10"
MULTIPURPOSE STUDENT SPACE	48' - 0"
RESOURCES ROOM DSS	41' - 11"
STAFF KITCHEN	53' - 6"
TESTING CENTER DIRECTOR'S OFFICE	45' - 9"
TESTING ROOM 1	72' - 7"
TESTING ROOM 2	67' - 9"

FIRST FLOOR OCCUPANCY LOAD TABULATION (IBC - TABLE 1004.5)

Level	CLASSIFICATION & OCCUPANCY USE	FUNCTION OF SPACE	Area	OCCUPANT LOAD FACTOR	AREA NET/GROSS	AREA OCCUPANCY LOAD
FIRST FLOOR	ASSEMBLY A-3A	Assembly Unconcentrated (tables and chairs)	2482 SF	15 SF	NET	168
FIRST FLOOR	BUSINESS B	Accessory Storage Areas, Mechanical Equipment Room	448 SF	300 SF	GROSS	3
FIRST FLOOR	BUSINESS B	Business	10903 SF	150 SF	GROSS	74
FIRST FLOOR	BUSINESS B	Business Concentrated Business Use Aeas	3076 SF	0 SF	SEE SECTION 1004.8	86
			16909 SF			331

PLAN LEGEND

- 440 — EGRESS CAPACITY IN PERSONS FOR OPENING SHOWN
- 54 — CALCULATED OCCUPANCY LOAD AT EXIT LOCATION
- EWC - ELECTRIC WATER COOLER
- B — 90 MIN RATED DOOR AND FRAME ASSEMBLY
- ONE HOUR FIRE BARRIER
- TWO HOUR FIRE BARRIER
- NON-FIRE RATED PARTITION, REFER TO SHEET A-0.1 FOR PARTITION TYPES LEGEND.
- (-' - -") — APPROXIMATE MAXIMUM TRAVEL DISTANCE
- XXX / XXX SF — OCCUPANT LOAD
- FEC — RECESSED FIRE EXTINGUISHER & CABINET- REFER TO DETAILS, SHEET LS101 - AND SPECIFICATIONS
- X — HORIZONTAL EXIT WIDTH REQUIRED (TABLE 1005.1)
- X — HORIZONTAL EXIT WIDTH PROVIDED

OCCUPANCY AREAS

- Accessory Storage Areas, Mechanical Equipment Room
- Assembly Unconcentrated (tables and chairs)
- Business
- Business Concentrated Business Use Aeas

TRUE NORTH

1 LS-101 LIFE SAFETY PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of PM&CD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REINA VIOLA RAMAT ARCHITECT 18837 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
LIFE SAFETY PLAN - FIRST FLOOR

SHEET
LS-101

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
2/13/2023 4:09:55 PM

UL Product iQ®

BXUV.U905 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

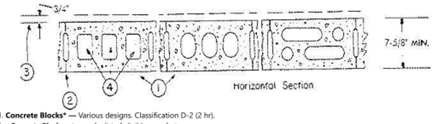
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U905**

February 6, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ CI Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XIP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

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

Last Updated on 2023-02-06

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product iQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product iQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."

UL DESIGN ASSEMBLY U905

SCALE: 12" = 1'-0"

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH W. RAMSEY
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
UL DESIGN ASSEMBLY

SHEET
LS-102

2/13/2023 4:10:14 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

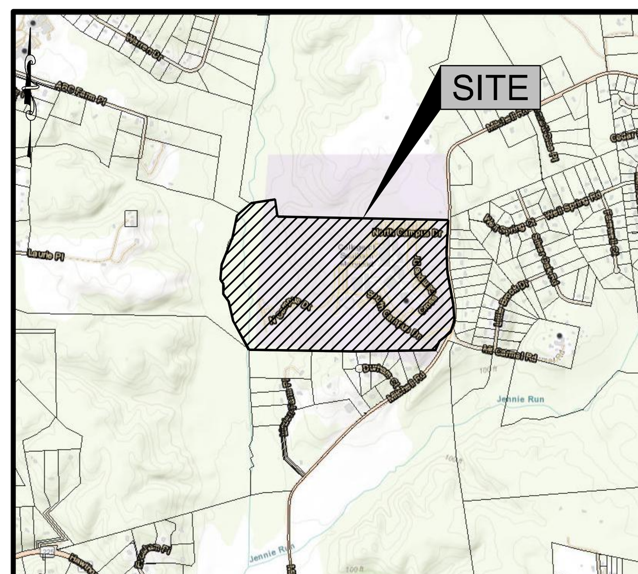
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

SITE WORK SPECIFICATIONS

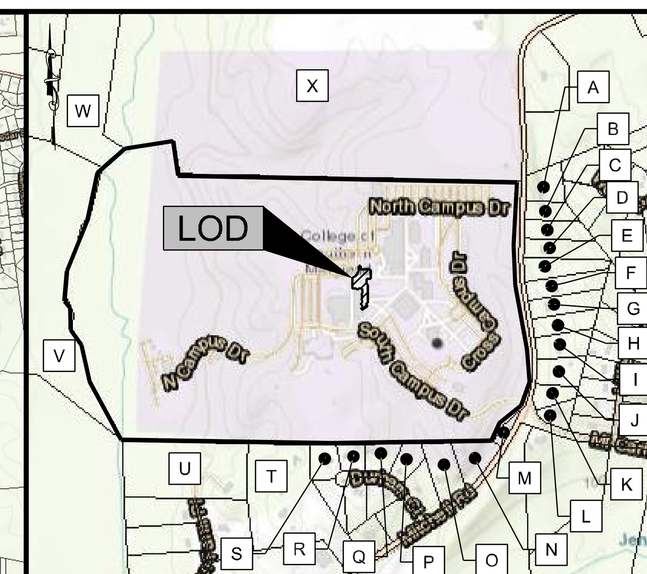
#	DESCRIPTION
1	ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST CHARLES COUNTY DEPARTMENT OF PLANNING AND GROWTH MANAGEMENT SPECIFICATION MANUAL, THE LATEST CHARLES COUNTY DETAIL MANUAL AND IN ACCORDANCE WITH ALL COUNTY ORDINANCES.
2	CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO ANY EXCAVATION WORK.
3	THE DEVELOPER IS RESPONSIBLE TO HOLD A "PRECONSTRUCTION" MEETING TO INCLUDE THE CONTRACTOR, CHARLES COUNTY INSPECTION PERSONNEL, PUBLIC UTILITIES, AND ANY LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
4	THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CHARLES COUNTY DEPARTMENT OF PLANNING AND GROWTH MANAGEMENT/CODES, PERMITS & INSPECTION SERVICES DIVISION 48 HOURS PRIOR TO THE START OF ALL CONSTRUCTION IN ACCORDANCE TO ALL PERMITS ISSUED @ 301-645-0700.
5	MAXIMUM SLOPES SHALL NOT BE GREATER THAN THE THREE (3) FEET HORIZONTAL TO (1) FOOT VERTICAL OUTSIDE THE ROAD RIGHT-OF-WAY. SLOPES WITHIN THE ROAD RIGHT-OF-WAY SHALL NOT BE GREATER THAN TWO (2) FEET HORIZONTAL TO ONE (1) FOOT VERTICAL, OR AS SPECIFIED IN THE COUNTY ROAD ORDINANCE AND IN THE CHARLES COUNTY DETAIL MANUAL.
6	CERTIFIED COMPACTION TESTS ARE REQUIRED FOR ALL TRENCH/FILL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATIONS MANUAL AND GRADING ORDINANCE. FINAL REPORTS AND CERTIFICATIONS SHALL BE PROVIDED PRIOR TO PRE-FINAL INSPECTIONS.
7	CERTIFIED COMPACTION TESTS AND GEOTECHNICAL REPORTS SHALL BE SUBMITTED ON A BI-WEEKLY BASIS THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED BY THE SPECIFICATIONS MANUAL.
8	A PROGRESS SET OF AS-BUILT PLANS SHALL BE SUBMITTED PRIOR TO "SUBSTANTIAL INSPECTIONS" FOR WATER AND SEWER CONSTRUCTION FOR THE PURPOSE OF OBTAINING AN APPROVAL FOR SUBSTANTIAL INSPECTION.
9	AS-BUILT PLANS SHALL BE SUBMITTED PRIOR TO PRE FINAL INSPECTIONS FOR ALL DISCIPLINES. CONTRACTOR SHALL PREPARE AS-BUILT SURVEY IN ACCORDANCE WITH CHARLES COUNTY PLAN PREPARATION PACKAGE ITEM R AND PROVIDE AUTOCAD COPY TO THE OWNERS.
10	FOR ALL STRUCTURES CATEGORIZED AS A "BRIDGE" ACCORDING TO THE DEFINITION CONTAINED IN SECTION GP.1 OF THE CHARLES COUNTY STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION MANUAL, BRIDGE INSPECTION REPORT AND CERTIFICATION REQUIREMENTS SHALL BE MET PRIOR TO THE ROAD PRE FINAL INSPECTION.
11	WITH APPROVAL FROM THE DEPARTMENT OF PLANNING & GROWTH MANAGEMENT AND EROSION & SEDIMENT CONTROL INSPECTOR, AND 95% GRASS COVER ON ALL DISTURBED AREAS, ALL EROSION AND SEDIMENT CONTROL STRUCTURES MUST BE REMOVED PRIOR TO THE RELEASE OF BONDS.
12	STREET LIGHTING IS NOT PERMITTED IN THE ROAD RIGHT-OF-WAY OUTSIDE OF THE URBAN ROAD STANDARDS DISTRICT.
13	ALL OUTFALLS SHALL BE INSPECTED AND APPROVED BY THE COUNTY PRIOR TO THE RELEASE OF BONDS.

SITE PLAN NOTES

#	DESCRIPTION
1	THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF: COLLINSON, OLIFF AND ASSOCIATES, INC.
2	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL OF THE REQUIREMENTS OF THE FEDERAL, STATE, AND LOCAL AUTHORITIES, HEALTH DEPARTMENT AND UTILITY COMPANIES, IN ADDITION TO THE INFORMATION STATED ON THESE PLANS.
3	IN CASE OF CONFLICT BETWEEN ANY PART OF THESE PLANS AND SPECIFICATIONS, OR IF ANY ERRORS OR OMISSIONS ARE DISCOVERED IN THE LINES, GRADES AND DIMENSIONS, THE CONTRACTOR SHALL NOTIFY THE SITE CONSULTANT IMMEDIATELY AND SHALL REQUEST A WRITTEN DETERMINATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED. IF THE WORK PROCEEDS WITH THE KNOWLEDGE OF THE ERROR OR OMISSION, AND WITHOUT A WRITTEN DETERMINATION, SUCH WORK WILL NOT BE CONSIDERED IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS.
4	PRIOR TO CONSTRUCTION, CONTACT: THE ENFORCEMENT DIVISION, DEPARTMENT OF THE ENVIRONMENT SEDIMENT AND STORMWATER MANAGEMENT ADMINISTRATION 1800 WASHINGTON BLVD. BALTIMORE, MARYLAND 21230 PHONE: (410) 537-3000
5	OWNER(S): BOARD OF TRUSTEES OF CHARLES COUNTY COMMUNITY COLLEGE C/O Jill Wathen P.O. BOX 910 LA PLATA MARYLAND 20646 PHONE: 301-643-8107
6	IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
7	AS CONSTRUCTION PROCEEDS, ADDITIONAL MEASURES MAY BE EMPLOYED WITH THE ENGINEER'S APPROVAL, IF CONDITIONS WARRANT, TO ENSURE EFFECTIVE STORMWATER DRAINAGE AND SEDIMENT CONTROL.
8	ALL ELEVATIONS SHOWN HEREON ARE IN REFERENCE TO BENCH MARKS AND MUST BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.
9	EXISTING ELEVATIONS SHOWN HEREON ARE FROM A FIELD RUN SURVEY BY C.O.A., INC. PERFORMED IN JULY 2022 AND SUPPLEMENTED WITH CHARLES COUNTY AERIAL TOPOGRAPHY. EXISTING UTILITIES SHOWN ARE TAKEN FROM FIELD INFORMATION AND THE BEST AVAILABLE PLANS OF THE EXISTING UTILITIES.
10	NO PROPERTY LINE SURVEY PERFORMED BY C.O.A., INC. FOR THE PREPARATION OF THESE PLANS.
11	THIS PLAT IS NOT A BOUNDARY SURVEY AND DOES NOT MEET THE MINIMUM STANDARDS FOR A BOUNDARY SURVEY AS DEFINED BY COMAR REGULATION.
12	NO NON-TIDAL WETLANDS DELINEATION PERFORMED FOR THE PREPARATION OF THESE PLANS.
13	BASED ON SITE INSPECTION AND THERE ARE NO FLOOD PLAINS, WETLANDS, OR ADJACENT STREAMS THAT IMPACT THIS SITE WITHIN THE LIMIT OF DISTURBANCE.



VICINITY MAP
ADC MAP 16 GRID K-1 SCALE: 1"=2000'



LOCATION MAP
SCALE: 1" = 1000'

ADJACENT PROPERTY INFORMATION

ABC	PARCEL #	OWNER(S)	DEED REF.	TAX ID #
A	169	COMBS DENIS F & JACQUELINE M	1309 / 304	06-061974
B	169	DOBSON PEGGY B TRS	10061 / 16	06-050077
C	169	DANIELS TENNILLE	12602 / 1	06-060145
D	169	VARGAS ANGELINA	7382 / 246	06-053076
E	169	WRIGHT THOMAS P ETAL WRIGHT JULIA ANNE	12100 / 297	06-041566
F	169	SCOTT ANDREW J MATTINGLY ANGELA LILLIAN	11525 / 301	06-024769
G	169	KNIGHT MARTHA L	10029 / 223	06-061753
H	169	PEFLEY CHARLES PEFLEY DAWN	11398 / 322	06-030963
I	169	SWANN JOANNA M	8883 / 37	06-047238
J	169	ANDRADE MARVIN F LAZO SANDRA XIOMARA	11859 / 345	06-062148
K	169	JARA CHACHA LUIS M	10002 / 206	06-052401
L	169	WYATT WILLIAM R & DOROTHY J	4651 / 409	06-063918
M	169	REYNOLDS JERRY R & ELAINE R	1542 / 437	06-096271
N	169	REYNOLDS JERRY R & ELAINE R	1542 / 437	06-086411
O	169	WHITNEY ROBERT J & LILLY A	3636 / 3	06-086403
P	169	KIRK BRUCE P & MARY J	655 / 187	06-086373
Q	169	QUICKER ROSE MARIE ETAL KIRSCHT JOHN BRIAN	11423 / 159	06-086365
R	169	MATTHEWS ADRIAN D	6403 / 521	06-086357
S	169	BOURNE HENRY C & EVELYN T	596 / 132	06-086349
T	161	ALTIERI BRIGGS C KAREN TRS	11234 / 384	06-111572
U	196	COLLINS CLAY COLLINS HEATHER	11529 / 35	06-134726
V	171	PAMA PROPERTIES LLC	11376 / 477	06-051804
W	178	BRD OF EDUCATION OF CHARLES CO MD	193 / 90	06-066488
X	165	THAINSTON LLC	4012 / 217	06-045715

SITE DATA BLOCK

TAX MAP	22	GRID	-	PARCEL	140	DEED	175 / 186	TAX ID#	06-066461
TAX MAP	-	GRID	-	PARCEL	-	DEED	-	TAX ID#	-

PARCEL AREA	173.69 AC ±				
ZONING	-				
LAND USE	EXISTING	COMMUNITY COLLEGE			
	PROPOSED	COMMUNITY COLLEGE			
BUILDING DATA (EXTERIOR INFO)	AREA SF±	17,352			
	HEIGHT FT±	>40			
	USE	COMMUNITY COLLEGE			
	# OF EMPLOYEES	TBD			
UTILITIES	WATER	PUBLIC WATER			
	SEWER	PUBLIC SEWER			
PREDOMINANT SOILS	SOIL SYMBOL - SOIL NAME (HSG)			HYDRIC	K VALUE
	UK 'D' - URBAN LAND			NO	-
	GmD 'A' - GROSSTOWN-MARR-HOGHOLE COMPLEX			NO	0.24
POWER	ELECTRIC				
WASTE	STANDARD REFUSE: ON-SITE TRASH ENCLOSURE				
LAND COVERAGE (LOD)	IMPERVIOUS	GREEN	FOREST	OTHER	TOTAL
EXISTING SITE AC ±	0.08	0.55	0.00		0.63
PROPOSED SITE AC ±	0.19	0.44	0.00		0.63

BENCHMARK INFORMATION ~ NAD 83 & NAD 88

BM#	DESCRIPTION	NORTHING	EASTING	ELEVATION
BM A	X CUT FIRE HYD BOLT	325,185.42	1,309,316.86	177.18
BM B	X CUT FIRE HYD BOLT	324,817.96	1,309,421.07	166.43
BM C	SQ CUT CORNER CONC	324,950.73	1,309,269.87	179.37

LIST OF ABBREVIATIONS

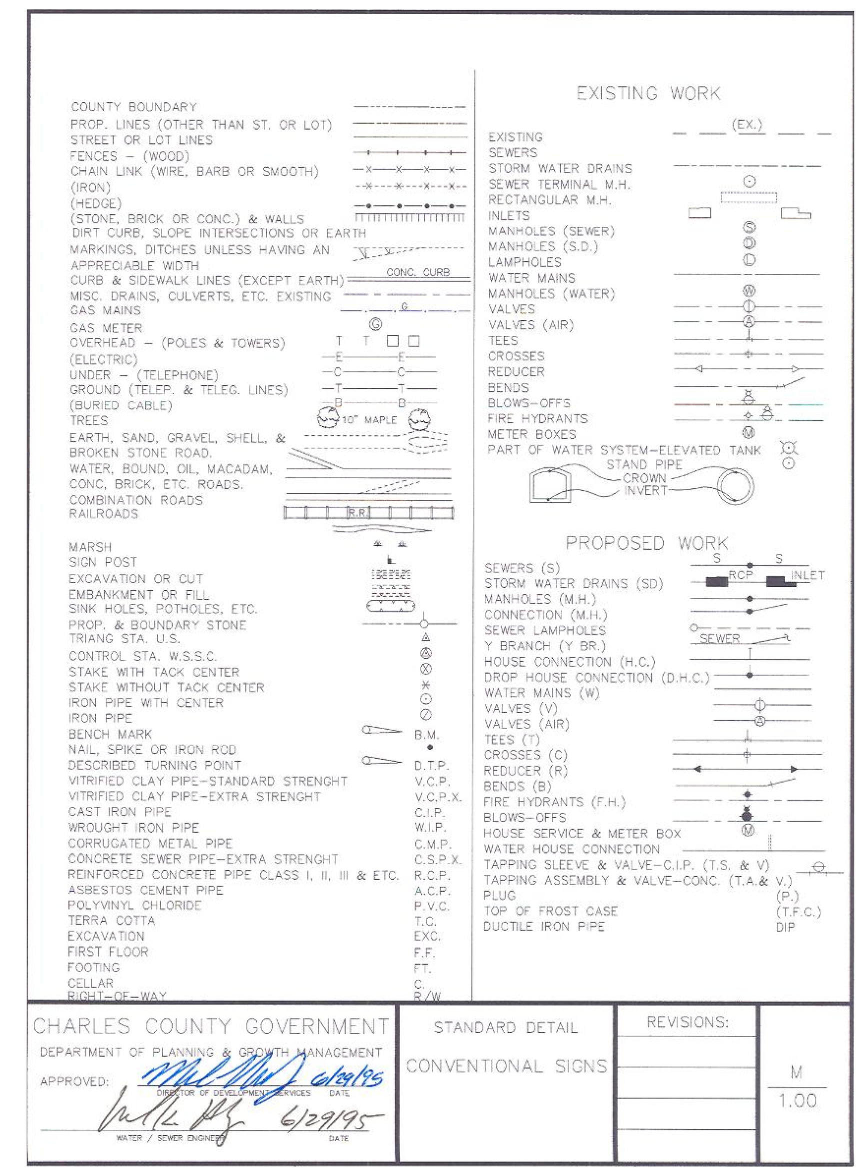
ASP-2	ALUMINIZED STEEL PIPE-TYPE 2
BC	BOTTOM OF CURB
BLD	BUILDING
BRL	BUILDING RESTRICTION LINE
BW	BOTTOM OF WALL
CONC	CONCRETE
COTG	CLEANOUT TO GRADE
EL	ELEVATION
ELEC	ELECTRIC
ES	END SECTION
EX	EXISTING
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
HB	HORIZONTAL BEND
HC	HANDICAP
I	INLET
L	LENGTH
LOD	LIMIT OF DISTURBANCE
MB	MICRO-BIORENTENTION
MH	MANHOLE
OAE	OR APPROVED EQUAL
PC	POINT OF CURVATURE
PRL	PARKING RESTRICTION LINE
PRO	PROPOSED
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
R/W	RIGHT-OF-WAY
S	SANITARY SEWER
SHC	SEWER HOUSE CONNECTION
STA	STATION
TBR	TO BE REMOVED
TC	TOP OF CURB
TRANS	TRANSFORMER
TS&V	TAPPING SLEEVE & VALVE
TW	TOP OF WALL
VHC	VAN HANDICAP
W	WATERLINE
WHC	WATER HOUSE CONNECTION
WM	WATER METER
WV	WATER VALVE
YC	YELLOW CURB

SITE ANALYSIS

TOTAL SITE AREA: 173.69 AC
TOTAL DISTURBED AREA: 0.6 AC
VOLUME OF EXCAVATION CUT/FILL: 240 / 10
VOLUME OF BORROW (SPOIL) MATERIAL: 230
OFF SITE WASTE AREA LOCATION: TBD

INDEX OF DRAWINGS

SHEET NAME	SHEET #	TOTAL #
COVER SHEET	C 1.0	11
GRADING & STORM DRAINAGE PLAN	C 2.0	11
STORMDRAIN PROFILES & DETAILS	C 2.1	11
PRE & POST DEVELOPMENT DRAINAGE AREA MAP	C 3.0	11
STORM WATER MANAGEMENT PLAN	C 3.1	11
STORM WATER MANAGEMENT DETAILS	C 3.2	11
SITE & LAYOUT PLAN	C 4.0	11
SITE & LAYOUT DETAILS	C 4.1	11
DEMOLITION PLAN	C 5.0	11
SEDIMENT & EROSION CONTROL PLAN	C 6.0	11
SEDIMENT & EROSION CONTROL DETAILS	C 6.1	11



COUNTY PLAN	PERMIT NUMBER	APPROVAL DATE	EXPIRATION DATE
CHARLES SOIL CONSERVATION PLAN	-	-	-
CONCEPT STORMWATER MANAGEMENT PLAN	CSWM-220026	-	-
SITE STORMWATER MANAGEMENT PLAN	-	-	-

CHARLES SOIL CONSERVATION DISTRICT APPROVAL

SEDIMENT AND EROSION CONTROL PLAN APPROVAL NUMBER SED #77 - 22

SMALL POND APPROVAL FOR N/A

SEDIMENT AND EROSION CONTROL PLAN APPROVAL AND SMALL POND APPROVAL (IF APPLICABLE) IS HEREBY GRANTED BY THE CHARLES SOIL CONSERVATION DISTRICT.

APPROVAL SIGNATURE/DATE ______

APPROVAL EXPIRATION DATE: ______

REQUESTS EXCLUSIVELY FOR EXTENSION OF THE APPROVAL EXPIRATION DATE NOTED ABOVE AND NOT INVOLVING ANY PLAN MODIFICATIONS TO THESE APPROVED PLAN SHEETS, MUST BE SUBMITTED TO THE CHARLES SOIL CONSERVATION DISTRICT IN WRITING. THE CHARLES SOIL CONSERVATION DISTRICT, AT ITS DISCRETION, MAY APPROVE THE EXPIRATION DATE EXTENSION TO THE APPROVED PLAN VIA SEPARATE APPROVAL LETTER.)

OWNER'S / DEVELOPER'S CERTIFICATE

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, VEGETATIVE STABILIZATION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE (*) AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT TO ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS, CHARLES COUNTY INSPECTORS, AND THE REPRESENTATIVES OF THE CHARLES SOIL CONSERVATION DISTRICT.

OWNER/DEVELOPER SIGNATURE & DATE ______

PRINTED NAME AND TITLE ______

TELEPHONE NUMBER ______

ADDRESS ______

PRINTED NAME AND CARD NUMBER (*) OF ON-SITE RESPONSIBLE PERSONNEL.

CHARLES COUNTY GOVERNMENT
DEPARTMENT OF PLANNING & GROWTH MANAGEMENT
DEVELOPMENT SERVICES DIVISION

APPROVED FOR:

	GRADING		CONSTRUCTION		AS-BUILTS
	ROADS		CONSTRUCTION		AS-BUILTS
	STORM DRAINAGE		CONSTRUCTION		AS-BUILTS
	STORMWATER MANAGEMENT		CONSTRUCTION		AS-BUILTS
	WATER		CONSTRUCTION		AS-BUILTS
	SEWER		CONSTRUCTION		AS-BUILTS
	OTHER		CONSTRUCTION		AS-BUILTS

SIGNED: SIGNED:

REMARKS OR CONDITIONS

THIS PERMIT EXPIRES ON:

DATE:

STANDARD STABILIZATION NOTE:

"FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN DAYS (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED."

CONSULTANT CERTIFICATION:

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF, AND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS."

MD P.E. LICENSE # #31181
MD LAND SURVEYOR LICENSE # N/A
MD LANDSCAPE ARCHITECT # N/A
NAME JOSEPH J. KADJESKI
FIRM NAME COLLINSON, OLIFF & ASSOCIATES, INC. (C.O.A.)
STREET ADDRESS 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678

SEAL

SIGNATURE
12/09/2022
DATE

LICENSED PROFESSIONAL'S CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THIS PLAN MEETS OR EXCEEDS THE REQUIREMENTS OF THE STORMWATER MANAGEMENT & STORM DRAINAGE ORDINANCE, FLOODPLAIN MANAGEMENT ORDINANCE, GRADING ORDINANCE, ROAD ORDINANCE, WATER & SEWER ORDINANCE, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II, ALL STATE AND FEDERAL CODES, THE CHARLES COUNTY STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION MANUAL, THE APPROVED SITE PLAN OR PRELIMINARY PLAN, OTHER PGM ORDINANCES AND REGULATIONS AND ANY CONDITIONS IMPOSED BY CHARLES COUNTY.

MARYLAND REGISTERED PROFESSIONAL ENGINEER
MARYLAND REGISTERED PROFESSIONAL LAND SURVEYOR
DATE 12/09/2022
LICENSE NUMBER #31181

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors · Engineers
Land Planners
P.O. BOX 2209 • 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678

JOSEPH J. KADJESKI MD PE #31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/13/23

FOLDER REFERENCE: TM 22 GRID 00 PARCEL 140
SCALE: AS SHOWN
DATE: DEC. 2022
JOB NO.: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO. PGM: PGM# SSWM-2200__

COVER SHEET
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 1.0

FILE #: B - _ - _ A

USING AGENCY APPROVAL
DGS APPROVAL

JOSEPH J. KADJESKI
MD PE # 31181
12/09/2022
DATE

DATE 12/09/2022
PROJECT 3-0466
DESIGNED JJK
DRAWN MAE / MJH
CHECKED JJK

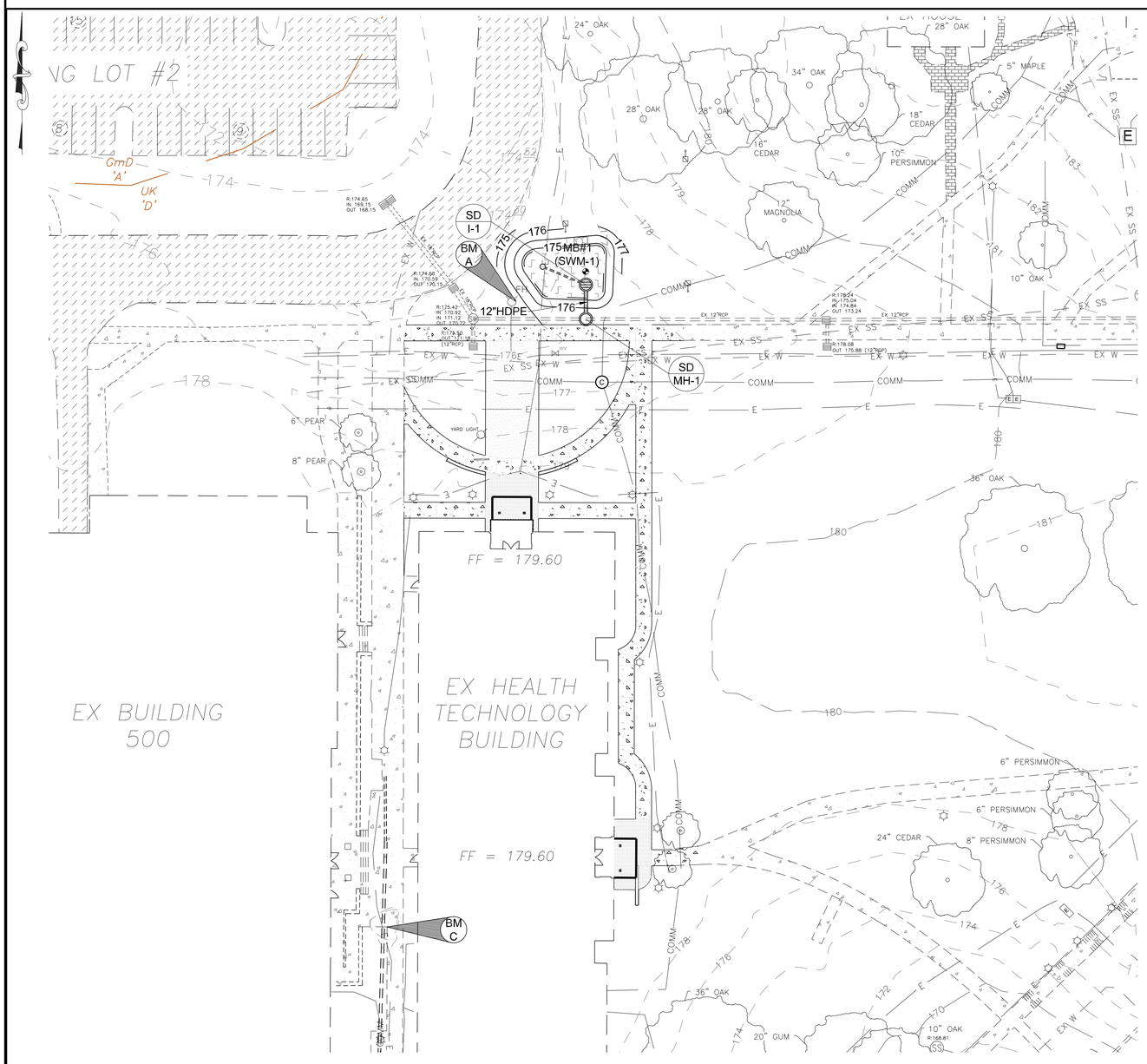
RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: COVER SHEET

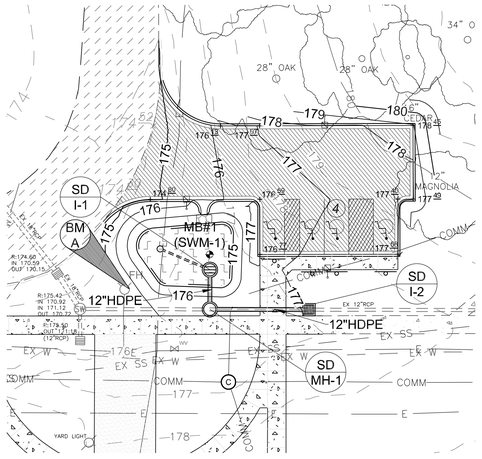
SHEET C 1.0

X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



GRADING PLAN NOTES

#	DESCRIPTION
1	ACCESS TO ALL EXISTING STRUCTURES SHALL BE MAINTAINED CONTINUOUSLY THROUGHOUT THE LIFE OF THE CONSTRUCTION.
2	CONTRACTOR SHALL BE AWARE THAT THERE MAY BE UNDERGROUND UTILITIES WITHIN THE LIMITS OF DISTURBANCE AND IMMEDIATE VICINITY. INFORMATION SHOWN ON THESE PLANS IS FROM THE BEST AVAILABLE SOURCES, HOWEVER THE CONTRACTOR MUST CONTACT MISS UTILITY AND PERFORM TEST PITS TO ACCURATELY LOCATE UTILITIES AND TO ENSURE NO DAMAGE TO UTILITIES WILL OCCUR. ANY DAMAGE TO THE VARIOUS UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
3	THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE GRADE AND DRAINAGE OVER ALL PAVED SURFACES. NO PONDING OR PUDDLING IS ALLOWABLE FOLLOWING PAVEMENT PLACEMENT.
4	EXISTING PAVED SURFACES WHICH ARE PROPOSED LANDSCAPE GREEN AREAS SHALL HAVE ALL PAVEMENT, GRAVEL, AND SUB-GRADE MATERIAL REMOVED AND REPLACED WITH TOPSOIL UNTIL SUITABLE SOILS FOR THE ESTABLISHMENT OF LANDSCAPE MATERIAL IS REACHED.
5	PROPOSED CURB ELEVATIONS SHOWN HEREON ARE BOTTOM OF CURB UNLESS OTHERWISE NOTED.
6	ALL SIDEWALKS SHALL MEET CURRENT ADA STANDARDS EXCEPT WHERE STEPS ARE PROPOSED.
7	ALL SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION MATTING AFTER FINAL GRADE IS ACHIEVED. SOLID SOD MAY BE REQUIRED IF SCOURING OCCURS DURING CONSTRUCTION AND PRIOR TO FULL VEGETATIVE RE-ESTABLISHMENT.
8	AREAS OF CURB & PAVEMENT TO BE REMOVED TO CONSTRUCT ENTRANCES & SITE IMPROVEMENTS SHALL BE SAWCUT TO FACILITATE REMOVAL AND INSTALLATION.



ACCESSIBLE PARKING ADD ALTERNATE #1
SCALE: 1"=20'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

BENCHMARK INFORMATION ~ NAD 83 & NAD 88

BM#	DESCRIPTION	NORTHING	EASTING	ELEVATION
BM A	X CUT FIRE HYD BOLT	325,185.42	1,309,316.86	177.18
BM B	X CUT FIRE HYD BOLT	324,817.96	1,309,421.07	166.43
BM C	SQ.CUT CORNER CONC	324,950.73	1,309,269.87	179.37

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 ~ 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 ~ 301-855-1259
FAX: 410-535-2103 ~ EMAIL: MYR@COANINC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 31181, EXPIRATION DATE: 01/19/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SCALE	AS SHOWN
DATE	DEC. 2022
PROJECT NO.	3-0466
DRAWN BY	MAE / MJH
APPROVED	JJK
CASE NO. PGM	PGM# SSWM-2200__

GRADING & STORM DRAINAGE PLAN
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 2.0

FILE #: B - _ - _ - B.1

PGM# SSWM-2200__

USING AGENCY APPROVAL
Name / Title / Date
DGS APPROVAL
Project Manager / Date
Chief of Admin(s) / Date

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/19/23.

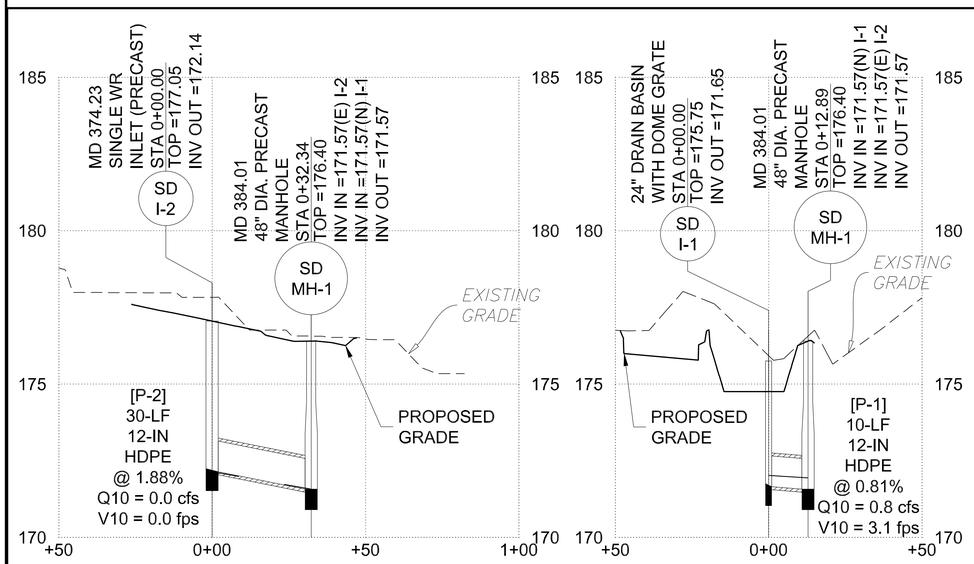
DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite
710 Arlington, Virginia 22206
(703)998-0101

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646
DRAWING
GRADING & STORM DRAINAGE PLAN

SHEET
C 2.0

X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



ADD ALTERNATE #1 STORM DRAIN PROFILE: I-2 TO MH-1

SCALE: H 1"=20' ~ V 1"=2'

STORM DRAIN PROFILE: I-1 TO MH-1

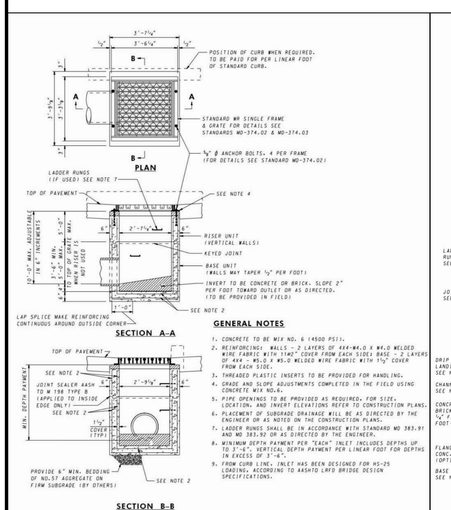
SCALE: H 1"=20' ~ V 1"=2'

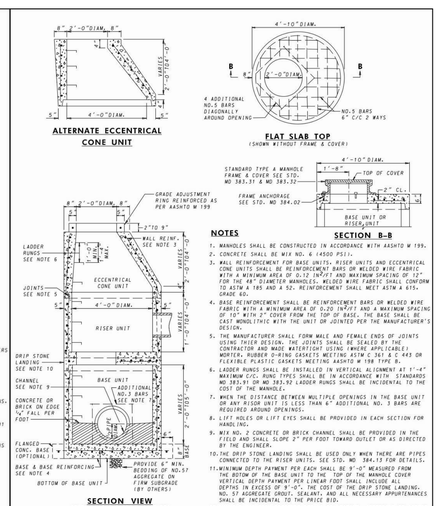
PROFILE LEGEND

- HGL,10 YEAR Storm
- EX. GRADE
- PROP'D GRADE

UTILITY PLAN NOTES

#	DESCRIPTION
1	SD COVERS SHALL BE STANDARD CHARLES COUNTY COVER AND CONTAIN THE WORDS "STORM DRAIN" AND EITHER "PUBLIC" OR "PRIVATE" PER ORDINANCE 8.1(C)(9)(n).
2	FOR MAINTENANCE PURPOSES, IN ADDITION TO FRAME AND COVERS, ALL INLETS AND JUNCTION BOXES (PRE-CAST OR POST-CAST) SHALL BE COVERED WITH REMOVABLE TOP LIDS.
3	A MINIMUM OF 12-INCHES VERTICAL CLEARANCE AND 5-FEET HORIZONTAL CLEARANCE TO ALL OTHER UTILITIES IS REQUIRED PER ORDINANCE 8.1(C)(6)(f).
4	THE DESIGN ENGINEER/CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT APPROVED SHOP DRAWINGS TO THE COUNTY PRIOR TO PLACEMENT OF PRECAST STRUCTURES.
5	THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING CERTIFIED BY A MARYLAND PROFESSIONAL ENGINEER FOR ANY STRUCTURES THAT ARE MODIFIED FROM A STANDARD DETAIL THAT WILL BE WITHIN AN EASEMENT OR RIGHT OF WAY DEDICATED TO THE COUNTY.
6	THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL TO INSPECT THE CONSTRUCTION OF ALL STORM DRAINAGE CONSTRUCTION. THE LICENSED PROFESSIONAL SHALL SUBMIT ROUTINE INSPECTION REPORTS WITH TEST RESULTS AT TIME INTERVALS ESTABLISHED BY THE COUNTY ENGINEER. THE LICENSED PROFESSIONAL SHALL NOT ACCEPT ANY WORK NOT IN COMPLIANCE WITH STATE OR COUNTY REQUIREMENTS AND SHALL NOTIFY THE COUNTY IMMEDIATELY WHEN WORK IS NOT IN COMPLIANCE.
7	ALL STORM DRAIN CONSTRUCTION WILL BE DONE ACCORDING TO THE PLAN PER ORDINANCE 8.4.D.14. HDPE STORM DRAIN TO BE ADS N-12 DUAL WALL (SMOOTH INTERIOR) PIPE OR APPROVED EQUAL. PVC STORM DRAIN TO BE SCHEDULE 40.
8	PRIOR TO BOND RELEASE ALL OUTFALLS SHALL BE INSPECTED AND APPROVED BY THE COUNTY.
9	FOR MAINTENANCE PURPOSES, IN ADDITION TO FRAME AND COVERS, ALL INLETS AND JUNCTION BOXES (PRE-CAST OR CAST IN PLACE) SHALL BE CONSTRUCTED WITH REMOVABLE TOP LIDS.
10	A MINIMUM OF 12-INCHES VERTICAL CLEARANCE AND 5-FEET TO ALL OTHER UTILITIES IS REQUIRED PER ORDINANCE 8.1(C)(6)(f).
11	THE DESIGN ENGINEER SHALL BE RESPONSIBLE TO SUBMIT APPROVED SHOP DRAWING TO THE COUNTY PRIOR TO THE PLACEMENT OF PRECAST STRUCTURES. PER ORDINANCE 8.5(H).
12	THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING CERTIFIED BY A MARYLAND PROFESSIONAL ENGINEER FOR ANY STRUCTURES THAT ARE MODIFIED FROM A STANDARD DETAIL THAT WILL BE WITHIN AN EASEMENT OR RIGHT-OF-WAY DEDICATED TO THE COUNTY.
13	THE DEVELOPER SHALL RETAIN A LICENSED PROFESSIONAL TO INSPECT THE CONSTRUCTION OF ALL STORM DRAINAGE CONSTRUCTION. THE LICENSED PROFESSIONAL SHALL SUBMIT ROUTINE INSPECTION REPORTS WITH TEST RESULTS AT TIME INTERVALS ESTABLISHED BY THE COUNTY ENGINEER. THE LICENSED PROFESSIONAL SHALL NOT ACCEPT ANY WORK NOT IN COMPLIANCE WITH STATE OR COUNTY REQUIREMENTS AND SHALL NOTIFY THE COUNTY IMMEDIATELY WHEN WORK IS NOT IN COMPLIANCE. PER ORDINANCE 8.5(K).
14	ALL STORM DRAIN CONSTRUCTION WILL BE DONE ACCORDING TO THE PLAN. PER ORDINANCE 8.4(D)(14).
15	PRIOR TO FINAL INSPECTION ALL OUTFALLS SHALL BE INSPECTED AND APPROVED BY THE COUNTY.
16	STORM DRAINS SHALL NOT BE INSTALLED WITHIN 10-FEET OF EXISTING HYDRANTS.





STORMDRAIN PIPE SCHEDULE

PIPE ID	US ID	DS ID	DIA (IN)	TYPE	L_O (FT)	S_O (%)
P-2	I-2	MH-1	12	HDPE	32	1.88
P-1	I-1	MH-1	12	HDPE	13	0.81

STORMDRAIN STRUCTURE SCHEDULE

STRUCT ID	TYPE	RIMGRATE ELEV	INVERT OUT	NORTH COORD	EAST COORD
I-2	MD 374.23 SINGLE WR INLET (PRECAST)	177.05	172.14	325,179	1,309,377
I-1	24" DRAIN BASIN WITH DOME GRATE	175.75	171.65	325,192	1,309,345
MH-1	MD 384.01 48" DIA. PRECAST MANHOLE	176.40	171.57	325,179	1,309,345

PIPE NETWORK STORM FREQUENCY: 10 YR

Upstream Node	Downstream Node	Drainage Area (Acres)	Runoff Coef.	CA (Increm.)	Total Area (Acres)	CA (Accum.)	Compound Tc (min)	Rainfall Intensity (in/hr)	Runoff (cfs)	Total Flow (cfs)	Diameter (in)	Pipe Material	Manning's n	Actual Slope (%)	Initial Velocity (fps)	Pipe Actual Length (ft)	Flow Travel Time (min)	Full Flow (cfs)	Friction Slope (%)	Downstream Flow Depth (in)	Upstream HGL (ft)	Downstream HGL (ft)
I-2	MH-1	0.0000	0.50	0.000	0.00	0.000	5.00	7.00	0.00	0.00	12	HDPE	0.013	1.9	0.00	30	0.00	5	0.00	0.00	172.14	171.57
I-1	MH-1	0.2577	0.45	0.116	0.26	0.116	5.00	7.00	0.81	0.81	12	HDPE	0.013	0.8	3.09	10	0.07	3	0.62	4.42	172.02	171.94

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 – 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 – 301-855-1909
FAX: 410-535-3103 – EMAIL: MYR@COANINC.COM
JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE
THE HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 31181, EXPIRATION DATE: 01/14/23

FOLDER REFERENCE	TM 22 GRID 00 PARCEL 140
SCALE	AS SHOWN
DATE	DEC. 2022
PROJECT NO.	3-0466
DRAWN BY	MAE / MJH
APPROVED	JJK
CASE NO. FGM	
PGM# SSWM-2200__	

DATE 12/09/2022
PROJECT 3-0466
DESIGNED JJK
DRAWN MAE / MJH
CHECKED JJK

STORMDRAIN PROFILES & DETAILS

COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 2.1

FILE #: B - _ - _ B.2

USING AGENCY APPROVAL
Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of Admin: Date:

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/13/23.

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite
710 Arlington, Virginia 22206
(703)998-0101

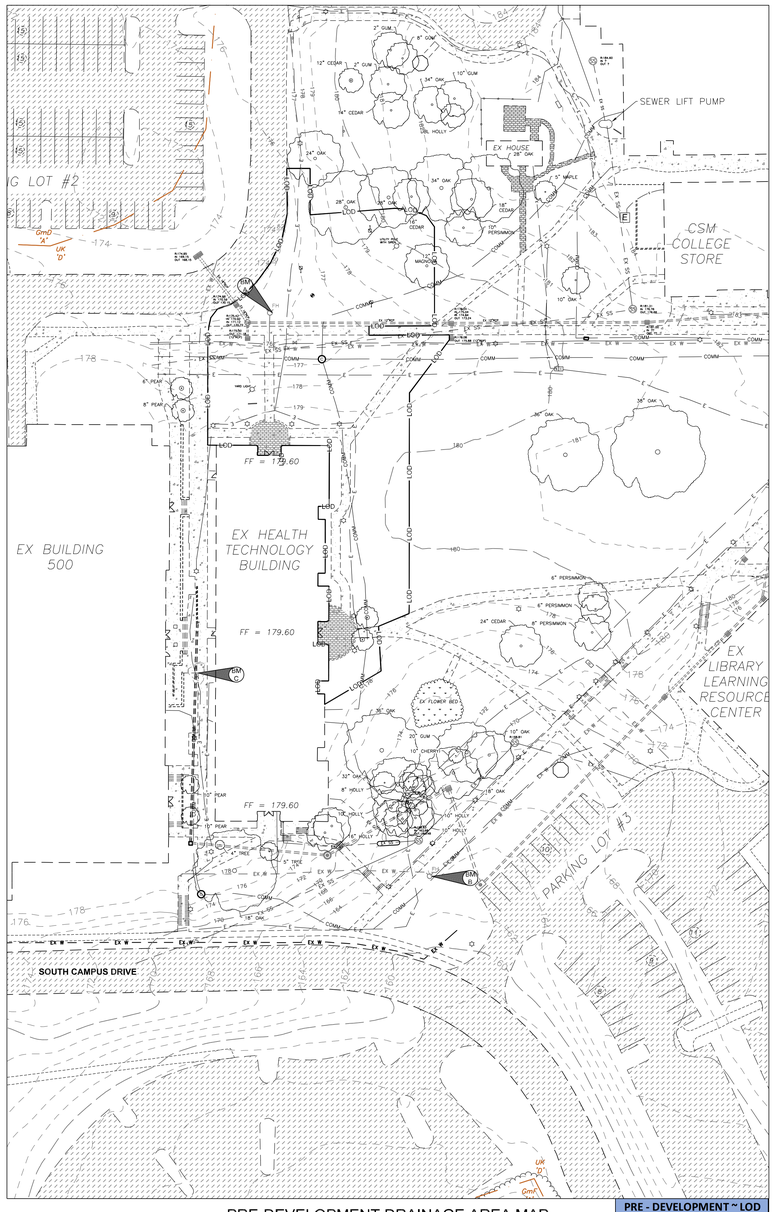
PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING STORMDRAIN PROFILE & DETAILS

SHEET C 2.1

PGM# SSWM-2200__

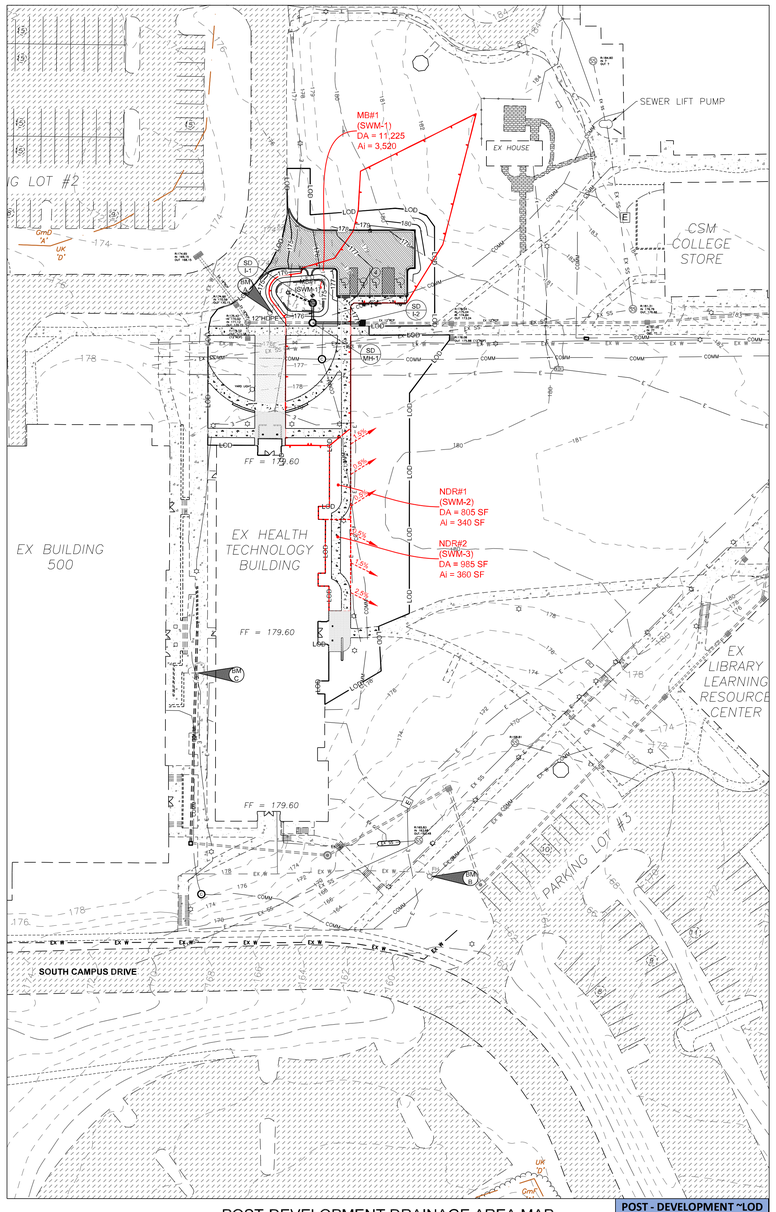
X13-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



PRE-DEVELOPMENT DRAINAGE AREA MAP

SCALE: 1" = 40'

PRE - DEVELOPMENT ~ LOD		
COVER DESCRIPTION	D SOIL SF±	SUM SF±
WOODS	0	0
OPEN	23,790	23,790
IMPERVIOUS	3,690	3,690
TOTAL	27,480	27,480



POST-DEVELOPMENT DRAINAGE AREA MAP

SCALE: 1" = 40'

POST - DEVELOPMENT ~LOD		
COVER DESCRIPTION	D SOIL SF±	SUM SF±
WOODS	0	0
OPEN	19,250	19,250
IMPERVIOUS	8,230	8,230
TOTAL	27,480	27,480

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

PGM# SSWM-2200__

COLLINSON, OLIFF & ASSOCIATES, INC.

Surveyors - Engineers
Land Planners
P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 - 301-855-1509
FAX: 410-535-2103 - EMAIL: MYE@COANINC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181; EXPIRATION DATE: 011/1/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SCALE: AS SHOWN
DATE: DEC. 2022
PROJECT: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO. PGM: PGM# SSWM-2200__

PRE & POST DEVELOPMENT DRAINAGE AREA MAP

COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 3.0

FILE #: B - _ - _ C.1

PGM# SSWM-2200__

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of Admin: Date:

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

Professional Certification: I hereby 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 31181, expiration date 01/1/23.

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

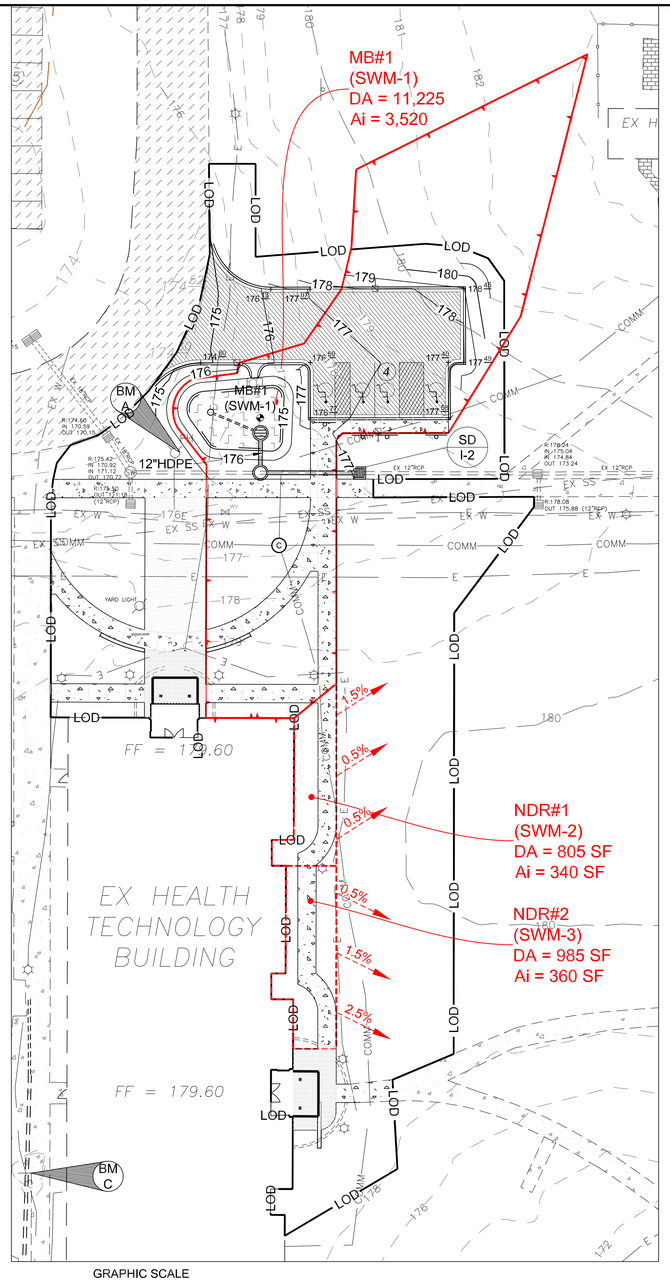
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
PRE & POST DEVELOPMENT DRAINAGE AREA MAP

SHEET
C 3.0

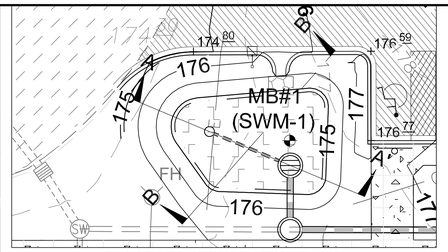
PGM# SSWM-2200__

X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



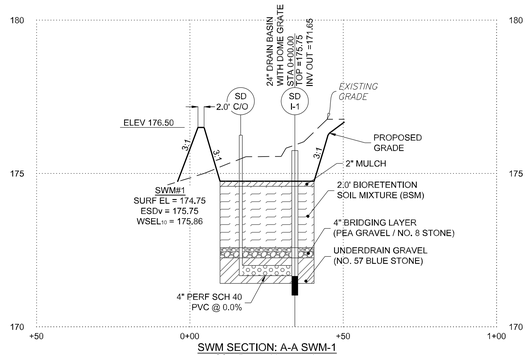
GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



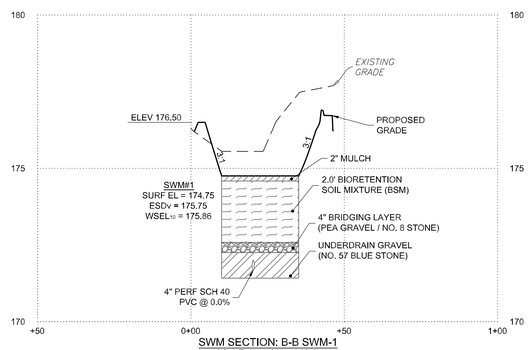
ENLARGED SWM GRADING PLAN:

SCALE: H 1"=10' ~ V 1"=1'



SWM SECTION: A-A SWM-1

SCALE: H 1"=30' ~ V 1"=3'



SWM SECTION: B-B SWM-1

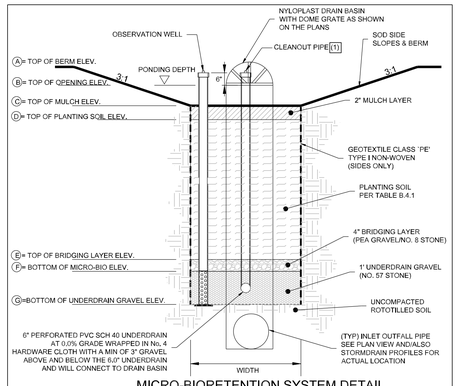
SCALE: H 1"=30' ~ V 1"=3'

SWM BMP SUMMARY												
		SITE INFORMATION				VOLUMES PROVIDED						
BMP DEVICE NAME	BMP TYPE	DRAINAGE AREA (sf)	Impervious Area (sf)	Rv	Target Pe	Target ESDv (cf)	Surface Area (sf)	Pe Credit	Rv	ESDv (cf)	Rev (cf)	CPv (cf)	MAX ESDv (cf)
MB #1 (SWM-1)	M-6	11,280	3,545	0.333	1.20	375	500	2.70	0.333	845	100		845
NRD #1 (SWM-2)	N-2	805	340	0.430	1.20	35		1.00	0.430	29			78
NRD #2 (SWM-3)	N-2	985	360	0.379	1.20	37		1.00	0.379	31			84
TOTAL MANAGED		13,070	4,245							905	100		

Stormwater Management Summary Table

Study Area ac / sf	Existing Impervious ac / sf	Proposed Impervious s.f.	I % Impervious	Rv	Qe	Target Pe	ESDv REQ ac-ft / cf	WQv REQ ac-ft / cf	Rev REQ ac-ft / cf	Target Cpv RCN	Qp/Qf ac-ft / cf
0.63	0.08	0.19	29.9%	0.32	0.38	1.20	0.02	0.02	0.00	77	N/A
27,480	3,690	8,230					878	732	44		N/A

DA ~ MB#1 (SWM-1)			DA ~ NRD#1 (SWM-2)			DA~NRD#2 (SWM-3)		
COVER DESCRIPTION	D SOIL SF±	SUM SF±	COVER DESCRIPTION	D SOIL SF±	SUM SF±	COVER DESCRIPTION	D SOIL SF±	SUM SF±
WOODS	0	0	WOODS	0	0	WOODS	0	0
OPEN	7,735	7,735	OPEN	465	465	OPEN	625	625
IMPERVIOUS	3,545	3,545	IMPERVIOUS	340	340	IMPERVIOUS	360	360
TOTAL	11,280	11,280	TOTAL	805	805	TOTAL	985	985



MICRO-BIORETENTION SYSTEM DETAIL

NTS

(1) NOTES:
- 6in SCH 40 PVC W/ REMOVABLE SCREW TOP LID
- TOP TO BE 6in ABOVE ESDv ELEVATION.
- PVC SHALL BE SOLID ABOVE PLANTING SOIL
- CLEANOUT PIPE TO BE SOLID PVC AND CONNECTS TO UPSTREAM END OF UNDERDRAIN
- OBSERVATION WELL IS A STAND ALONE DEVICE WITH A 18.0"x18.0" BLOCK FOOT PLATE AT THE BOTTOM OF THE FACILITY.

MICRO-BIORETENTION SUMMARY TABLE

	A	B	C	D	E	F	G	LENGTH	WIDTH	SURFACE AREA	10 YR WSEL	FREE BOARD	GROUNDWATER ELEV
SWM#1	176.50	175.75	174.75	174.58	172.58	172.25	171.25	*20.00'±	*28.00'±	500	175.86	0.64	
AS-BUILT													

*NOTE: DUE TO THE IRREGULAR SHAPE OF THE MICRO BIO'S THE ACTUAL LENGTH AND WIDTH MAY DIFFER AS LONG AS THE SURFACE AREA SQUARE FOOTAGE IS HELD.

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 ~ 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 ~ 301-855-1259
FAX: 410-535-2103 ~ EMAIL: MYS@COANNC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/11/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SCALE	AS SHOWN
DATE	DEC. 2022
PROJECT NO.	3-0466
DRAWN BY	MAE / MJH
APPROVED	JJK
CASE NO. FOM	
PGM# SSWM-2200__	

STORM WATER MANAGEMENT PLAN

COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 3.1

FILE #: B - _ - _ C.2

USING AGENCY APPROVAL
Name / Title / Date
DGS APPROVAL
Project Manager / Date
Chief of A&E(G) / Date

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/11/23.

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite
710 Arlington, Virginia 22206
(703)998-0101

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
STORM WATER MANAGEMENT PLAN

SHEET
C 3.1

PGM# SSWM-2200__
X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022

SWM CONSTRUCTION

ITEM	DESCRIPTION	EST. TIME DAYS
1	ONCE CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILIZED BEGIN CONSTRUCTION OF BIORETENTION AREA.	-
2	INSTALL STORMDRAIN OUTLET. EXCAVATE TO SUBGRADE PER PLANS. INSTALL PEA GRAVEL AND PERFORATED UNDERDRAIN PIPE AND GRAVEL.	10
3	INSTALL UPSTREAM SILT FENCE AS REQUIRED TO PROTECT FILTER MEDIA UNTIL UPSTREAM DRAINAGE AREA IS PERMANENTLY STABILIZED. INSTALL REMAINING FILTER MEDIA AND STABILIZATION PER DETAILS.	5
4	PREPARE AS-BUILT PLANS OF SWM DEVICES AND REQUEST PRE-FINAL INSPECTIONS. ADDRESS ANY DEFICIENCIES AND REQUEST FINAL INSPECTION.	10
	TOTAL ESTIMATED SWM CONSTRUCTION TIME:	25±

SPECIFICATIONS FOR MICRO-BIORETENTION & BIO-SWALES

1) MATERIAL SPECIFICATIONS

THE ALLOWABLE MATERIALS TO BE USED IN THE FACILITY AREA ARE DETAILED IN TABLE BELOW. FOR MATERIALS NOT LISTED AND CONSTRUCTION SPECIFICATIONS REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIAL PROVISIONS INSERT 316 - STORMWATER FILTRATION FACILITIES.

2) MISCELLANEOUS

THE FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

3) INSPECTION AND MAINTENANCE CRITERIA

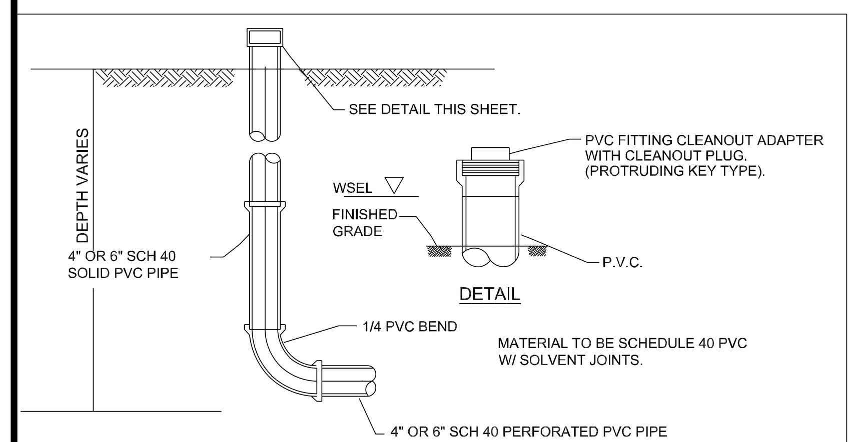
INSPECTIONS SHOULD BE PERFORMED ONCE A YEAR TO ASSESS SLOPE INTEGRITY, VEGETATIVE HEALTH, SOIL STABILITY, COMPACTION, EROSION, PONDING, AND SEDIMENTATION. PERIODIC REMOVAL OF SEDIMENT, LITTER OR OBSTRUCTIONS SHOULD BE DONE AS NEEDED. ERODED SIDE SLOPES AND FACILITY SURFACE AREAS SHOULD BE REPAIRED AND STABILIZED AS NEEDED. THE OUTLET STRUCTURE SHALL BE INSPECTED BI-ANNUALLY AT A MINIMUM AND ALL DEBRIS REMOVED FROM THE STRUCTURE.

A) MICRO-BIORETENTION
WHEN FILTERING CAPACITY OF THE BIORETENTION FILTER EXCEEDS 48 HOURS PONDING TIME, THE MULCH LATER IS TO BE REMOVED AND REPLACED WITH FRESH MATERIAL. REMOVED MULCH SHALL BE DISPOSED IN A LICENSED LANDFILL.

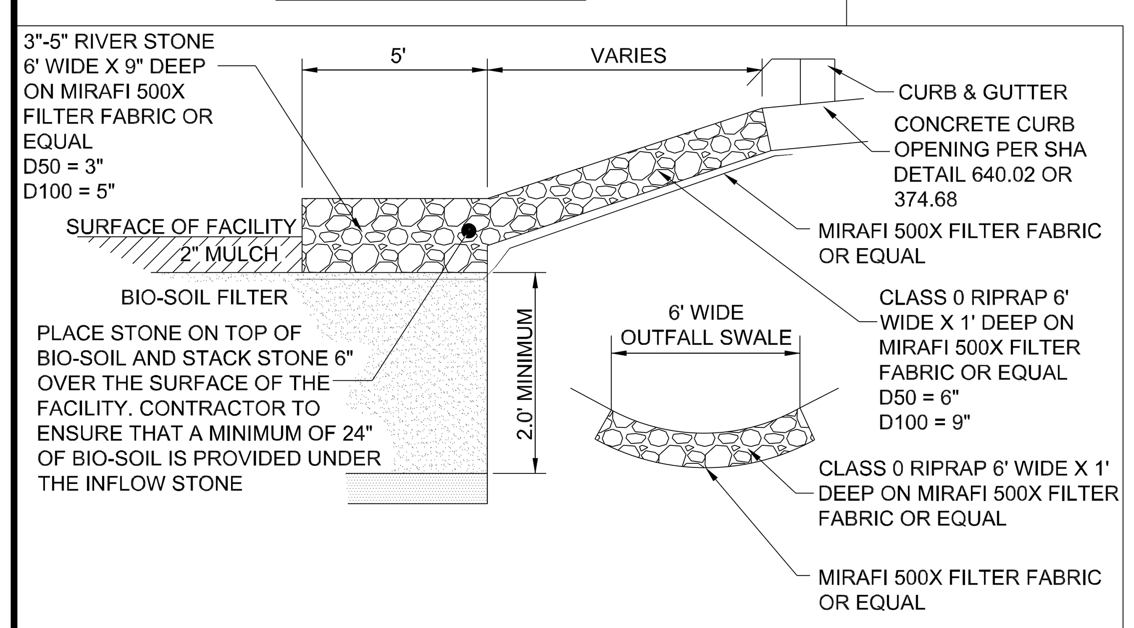
PLANT MATERIAL SHALL BE INSPECTED BI-ANNUALLY AT A MINIMUM AND DEAD OR DISEASED PLANT MATERIAL SHALL BE BE REMOVED AND REPLACED. AREAS DEVOID OF MULCH SHALL BE REMULCHED ON AN ANNUAL BASIS.

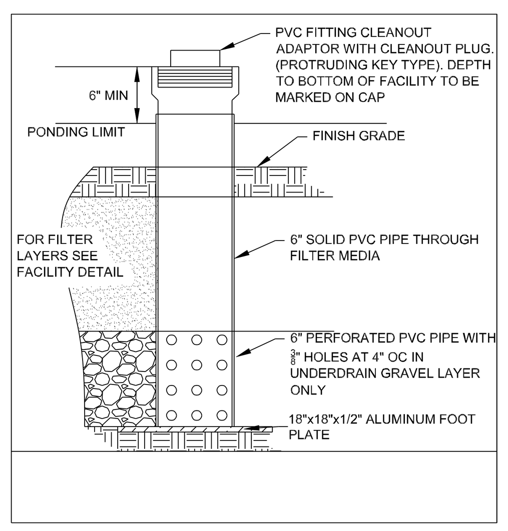
Table B.4.1 MATERIALS SPECS FOR MICRO-BIORETENTION & BIO-SWALES

MATERIAL	SPECIFICATIONS	SIZE	NOTES
PLANTINGS	SEE APPENDIX A, TABLE A.4	N/A	REFER TO LANDSCAPE SCHEDULES
PLANTING SOIL	LOAMY SANDS (60-65%) & COMPOST (35-50%) OR SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	USDA SOIL TYPES OR SANDY LOAM; CLAY CONTENT LESS THAN 5%
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM D 2974)		
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
PEA GRAVEL	PEA GRAVEL: ASTM-D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
ORNAMENTAL STONE	RIVER STONE: WASHED COBBLES	3" TO 5"	
GEOTEXTILE	PE TYPE III NON-WOVEN	N/A	FOR USE AS NECCESSARY
GRAVEL (UNDERDRAINS)	AASHTO M-43	No. 57 OR No. 6 BLUE STONE AGGREGATE (3/8" TO 3/4")	
UNDERDRAIN PIPING	AASHTO M-278, TYPE PS 28 OR AASHTO M-278	4" TO 6" RIGID SCH 40 PVC OR SDR 35	SLOTTED OR PERFORATED PIPE; 3/8" PERF, @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECCESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MIX NO. 3; F'C = 3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED; REINFORCING TO MEET ASTM-615-60	N/A	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.
SAND	AASHTO-M-6 OR ASTM-C-33	0.02" to 0.04"	NO RECYCLED CONCRETE SUBSTITUTION IS ACCEPTABLE

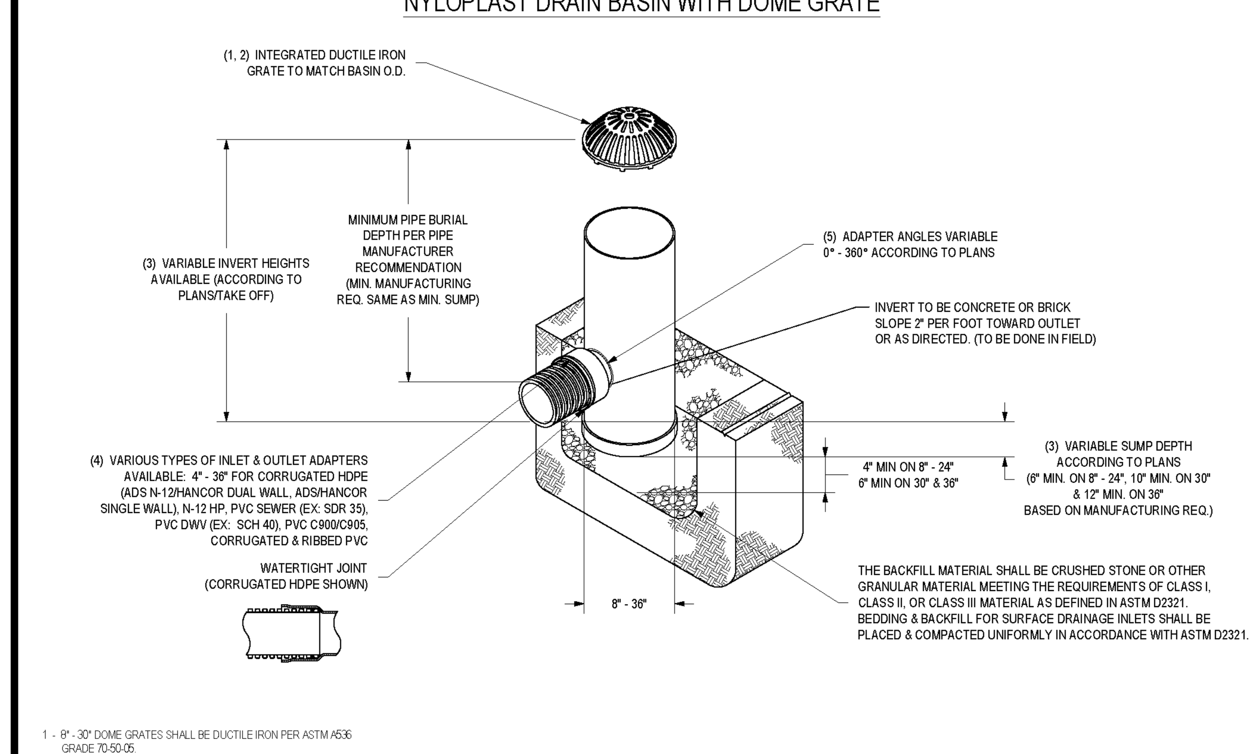


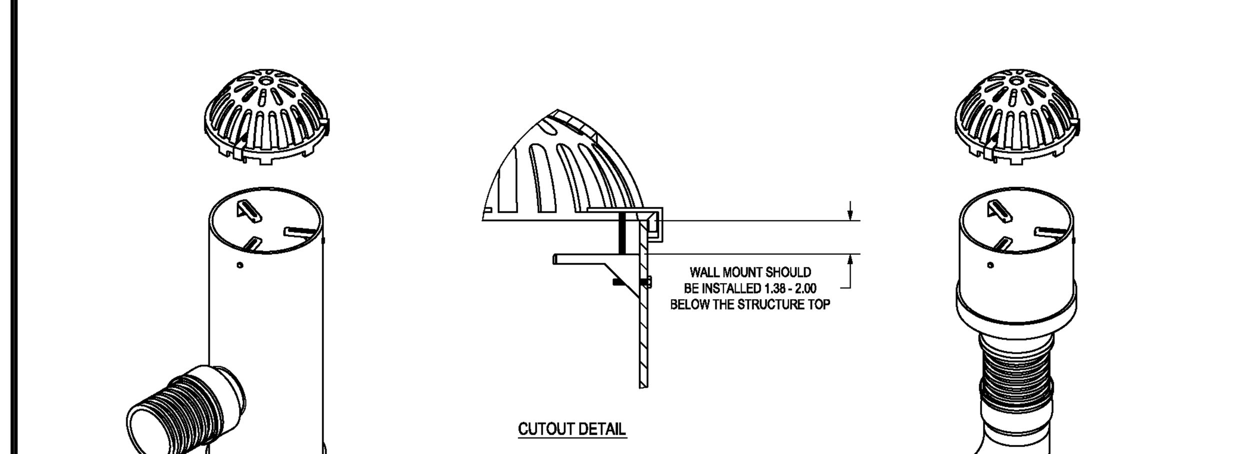
CLEANOUT DETAIL

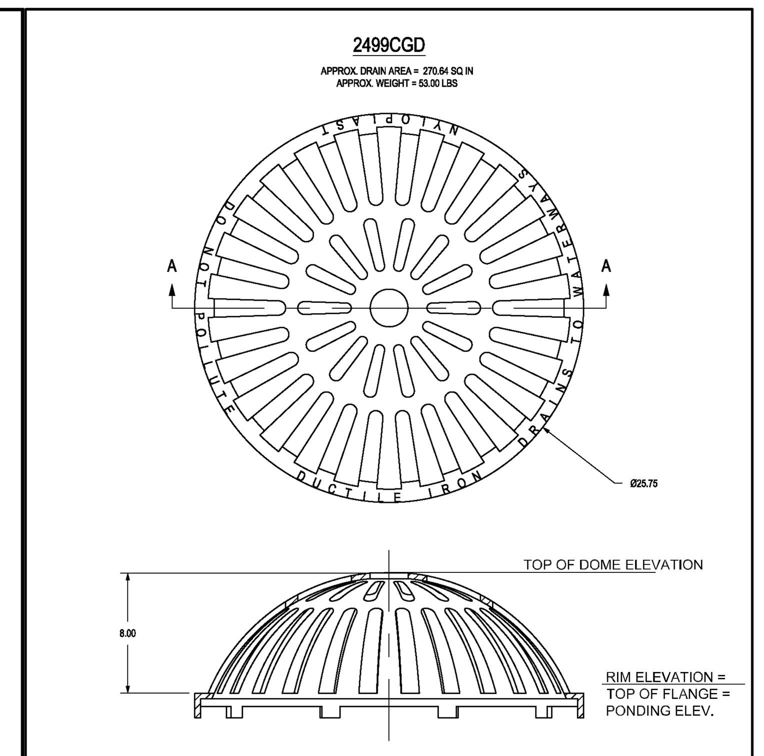




NYLOPLAST DRAIN BASIN WITH DOME GRATE







COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 • 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 • 301-855-1599
FAX: 410-535-3103 • EMAIL: INFO@COAINC.COM

JOSEPH J. KADJESKI MD PE # 31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/13/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140
DATE | REVISION

STORM WATER MANAGEMENT DETAILS
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

SCALE AS SHOWN
DATE DEC. 2022
JOB NO. 3-0466
DRAWN BY MAE / MJH
APPROVED JJK
CASE NO. PGM
PGM# SSWM-2200__

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 3.2
FILE #: B - _ - _ C.3

USING AGENCY APPROVAL
DGS APPROVAL

JOSEPH J. KADJESKI
MD PE # 31181
12/09/2022
DATE

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

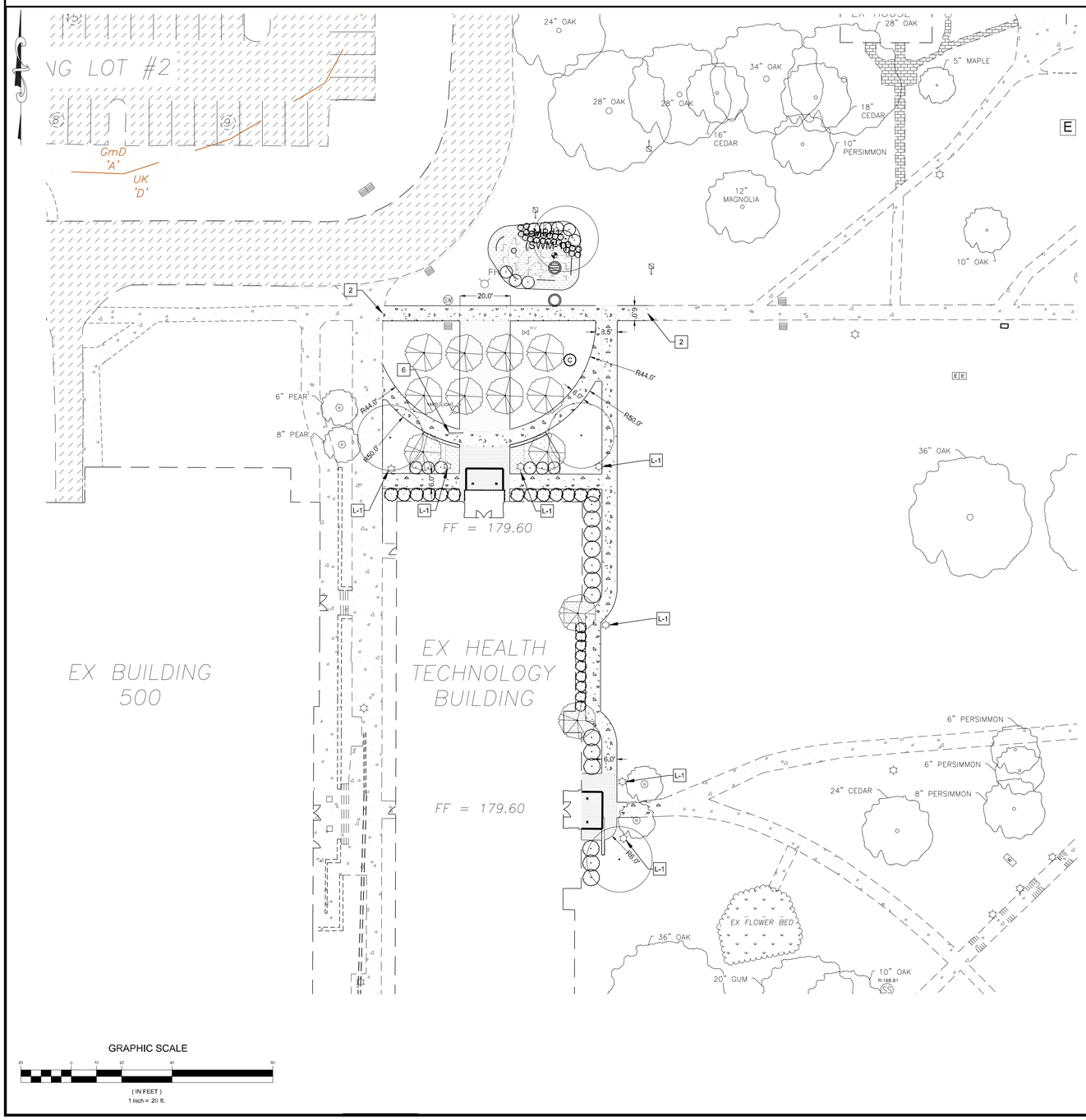
RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

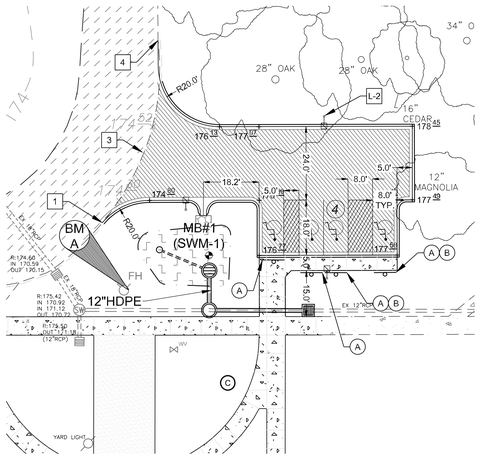
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
STORM WATER MANAGEMENT DETAILS

SHEET
C 3.2

PGM# SSWM-2200__





ACCESSIBLE PARKING ADD ALTERNATE #1
SCALE: 1"=20'

SITE PLAN NOTES

#	DESCRIPTION
1	ALL CURB AND GUTTER SHALL BE 6" CURB & BUTTER PER PGM STANDARD DETAIL R2.22 UNLESS OTHERSIE NOTED AND ALL CURB RADII ARE TO BE 3FT UNLESS OTHERWISE NOTED.
2	HANDICAP PARKING SPACE, RAMP, AND ACCESS TO BUILDING SHALL BE HARD SMOOTH SURFACE (ASPHALT, CONCRETE, OR OTHER PAVEMENT) ALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
3	ALL EXISTING FEATURES ARE TO REMAIN UNLESS NOTED OTHERWISE.
4	PROPOSED PLANTINGS, HARDSCAPE AND SIDEWALKS SHOWN HEREON FOR COORDINATION ONLY. REFER TO LANDSCAPE PLANS FOR LAYOUT, SPECIES AND DETAILS.

SITE PLAN KEYED NOTES

#	
1	PROPOSED CURB AND GUTTER TO MEET EXISTING CURB AND GUTTER. PROVIDE 5' TRANSITION BETWEEN VARYING CURB HEIGHTS AND GUTTER PAN WIDTHS.
2	PROPOSED CONCRETE SIDEWALK TO MEET EXISTING CONCRETE SIDEWALK. EXISTING SIDEWALK TO BE REMOVED AND REPLACED TO NEAREST CONSTRUCTION JOINT.
3	PROPOSED PAVEMENT TO MEET EXISTING PAVEMENT. SAWCUT EXISTING PAVEMENT AT GUTTER PAN TO PROVIDE CLEAN CONSTRUCTION JOINT.
4	PROPOSED NOSE DOWN CURB PER PGM STANDARD DETAIL R2.25
5	PROPOSED FLUSH CURB AND GUTTER ALONG HANDICAP PARKING SPACES.
6	EXISTING SIGN TO BE RELOCATED. PROPOSED LOCATION TO BE DETERMINED BY OWNER.

SIGN LEGEND

#	QUANTITY	DESCRIPTION OR TEXT ON SIGN	MUTCD STD NUMBER
A	4	HANDICAP "RESERVED PARKING"	R7-8
B	2	"VAN ACCESSIBLE"	R87-8P

LIGHTING SCHEDULE

SYMBOL	QUANTITY	LABEL	DISCRIPTION
	6	L-1	EXISTING PEDESTRIAN LIGHT TO REMAIN
	3	L-2	PROPOSED PARKING LOT LIGHTING

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 - 301-855-1509
FAX: 410-535-3103 - EMAIL: INFO@COANC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/13/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SCALE: AS SHOWN
DATE: DEC. 2022
PROJ. NO.: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO.: PGM
PGM# SSWM-2200__

SITE & LAYOUT PLAN
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 4.0

FILE #: B - _ - _ D.1

USING AGENCY APPROVAL
Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of Activity: Date:

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/13/23.

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

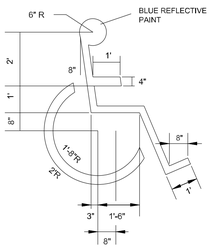
RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite
710 Arlington, Virginia 22206
(703)998-0101

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
SITE & LAYOUT PLAN

SHEET
C 4.0

PGM# SSWM-2200__
X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



NOTE: SYMBOL TO BE PAINTED ON SMOOTH PAVEMENT WHERE PROVIDED.

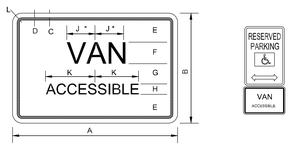
INTERNATIONAL HANDICAP SYMBOL

NTS

MOUNTED ON 4" x 4" TREATED TIMBER (O.A.E.), WITH BOTTOM OF SIGN AT LEAST 7 FT ABOVE GROUND. A MINIMUM 2 FT OF TIMBER SHALL BE EMBEDDED INTO THE GROUND. IF MOUNTED ON THE BUILDING, THE BOTTOM OF SIGN SHALL BE AT LEAST 6 FT ABOVE GRADE.

HANDICAP PARKING SIGN DETAIL

NTS



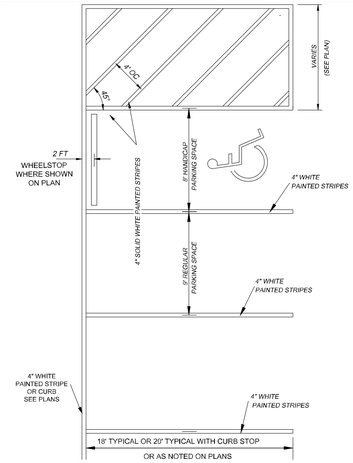
* INCREASE SPACING 50%

SIGN	DIMENSION (INCHES)											
	A	B	C	D	E	F	G	H	I	J	K	L
MIN.	12	6	3/8	3/8	1-1/2 D	1-1/2 D	1/2	1 D		2-1/2	4	1-1/2
STD.	18	9	3/8	5/8	2-1/4	2 D	1	1-1/2 D		2-3/4	7	1

COLORS:
REGULATORY (COLORS MAY BE REVERSED)
LEGEND: GREEN OR BLACK
BACKGROUND: WHITE (RETROREFLECTIVE)

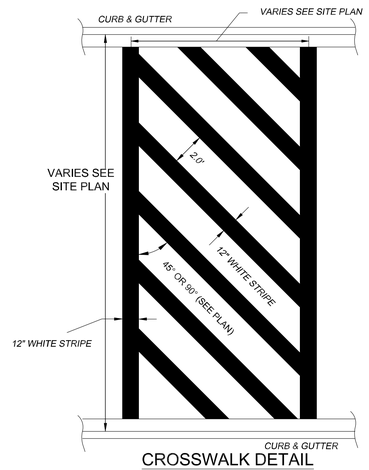
(REQUIRED BELOW THE RESERVED PARKING SIGN)

VAN ACCESSIBLE PARKING SPACE SIGN



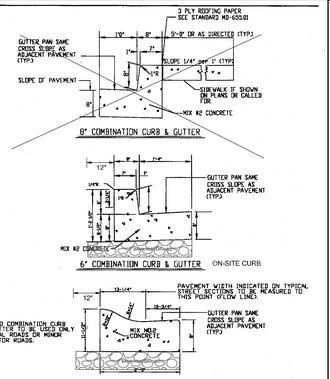
STRIPING DETAIL

NTS



CROSSWALK DETAIL

NTS



NOTE:
MODIFIED COMBINATION CURB AND GUTTER TO BE USED ONLY ON LOCAL ROADS OR MINOR COLLECTOR ROADS.

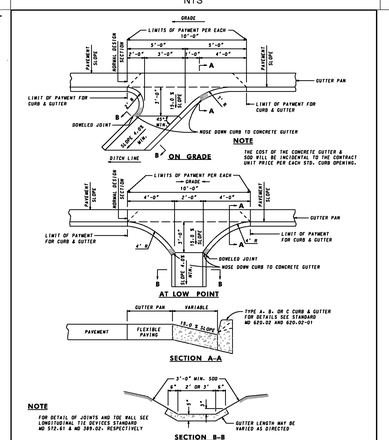
NOTES:
1. MAX JOINT SPACING FOR CONCRETE CURB AND COMBINATION CURB & GUTTER - 10'
2. SEE SPECIFICATIONS FOR LOCATION AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED.
3. 6" AND MODIFIED COMBINATION CURB AND GUTTER TO BE USED ONLY ON LOCAL ROADS OR MINOR COLLECTOR ROADS.

CHARLES COUNTY GOVERNMENT
DEPARTMENT OF PLANNING & GROWTH MANAGEMENT
APPROVED: DIRECTOR OF DEVELOPMENT REVIEW DATE
11/14/99
HONORE DUBOIS DATE

STANDARD DETAIL
COMBINATION CURB & GUTTER

REVISIONS:

R
2.22



SPECIFICATION 602 | CATEGORY CODE ITEMS

APPROVED: CHIEF, OFFICE OF HIGHWAY ADMINISTRATION

APPROVAL DATE	9-1-93	APPROVAL DATE	10-1-93
REVISED	9-1-97	REVISED	9-1-98
REVISED	10-1-01	REVISED	
REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STANDARD CURB OPENING DETAILS FOR COMBINATION CURB & GUTTER
STANDARD NO. MD 640.02

PAVEMENT SECTION

NOTE:
FINAL SITE PAVEMENT DESIGN SUBJECT TO GEOTECHNICAL ENGINEER ON-SITE TESTING AND RECOMMENDATIONS

PAVEMENT SECTIONS

NTS

ACCESSIBLE PARKING ADD ALTERNATE #1

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 - 301-855-1259
FAX: 410-535-3103 EMAIL: MYF@COANINC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 31181, EXPIRATION DATE: 01/10/23

SCALE	AS SHOWN
DATE	DEC. 2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN BY	MAE / MJH
APPROVED	JJK
CASE NO. PGM	PGM# SSWM-2200__

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SITE & LAYOUT DETAILS

COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 4.1

FILE #: B - _ - _ D.2

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of Maint(s) Date

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/10/23.

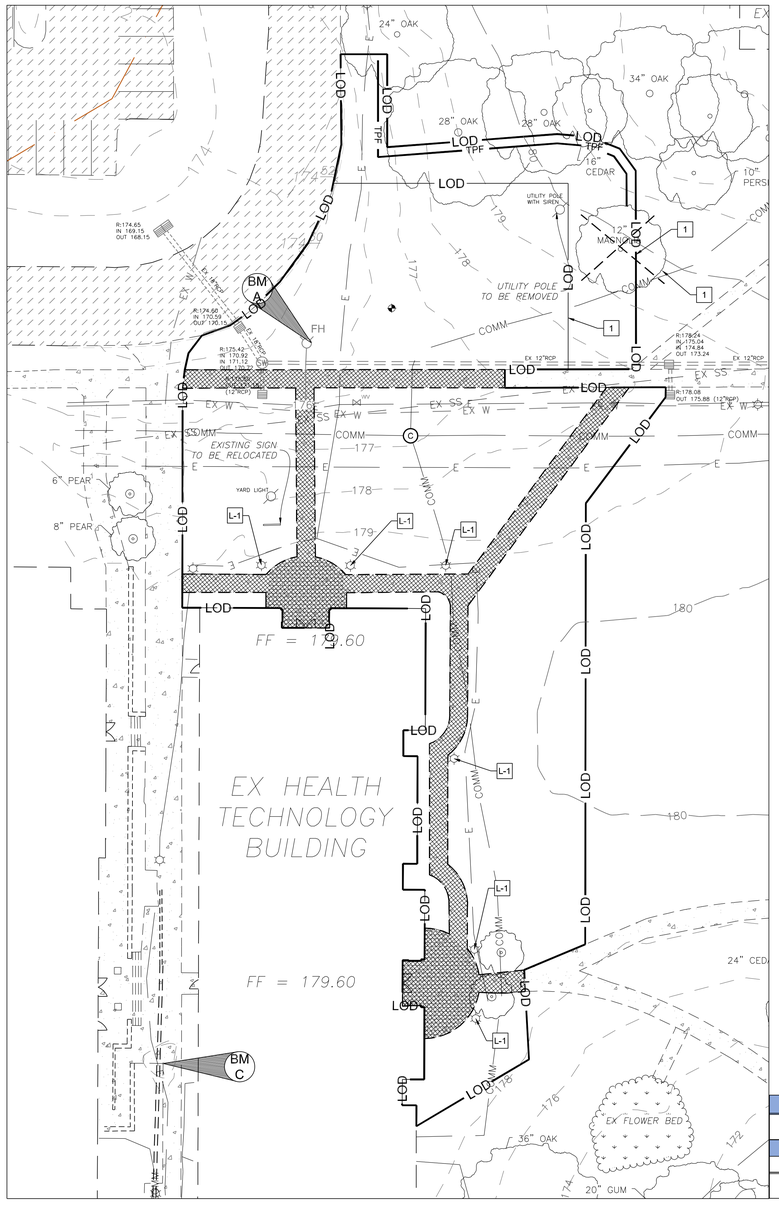
DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
SITE & LAYOUT DETAILS

SHEET
C 4.1



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

#	DEMOLITION KEYED NOTES
1	EXPANDED LOD, TPF AND TREE REMOVAL ARE PART OF ACCESSIBLE PARKING ADD ALTERNATE #1

LIGHTING SCHEDULE

SYMBOL	QUANTITY	LABEL	DISCRIPTION
☼	6	L-1	EXISTING PEDESTRIAN LIGHT TO REMAIN

LEGEND

ITEMS TO BE DEMOLISHED

COLLINSON, OLIFF & ASSOCIATES, INC.

Surveyors - Engineers
Land Planners

P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 - 301-855-1509
FAX: 410-535-2103 - EMAIL: MYR@COANINC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 31181, EXPIRATION DATE: 01/10/23

FOLDER REFERENCE
TM 22 GRID 00 PARCEL 140

DATE	REVISION

SCALE: AS SHOWN
DATE: DEC. 2022
PROJECT: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO: PGM: PGM# SSWM-2200__

DEMOLITION PLAN

COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646

FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 5.0

FILE #: B - _ - _ - E.1

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of Admin(s): Date:

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/10/23.

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

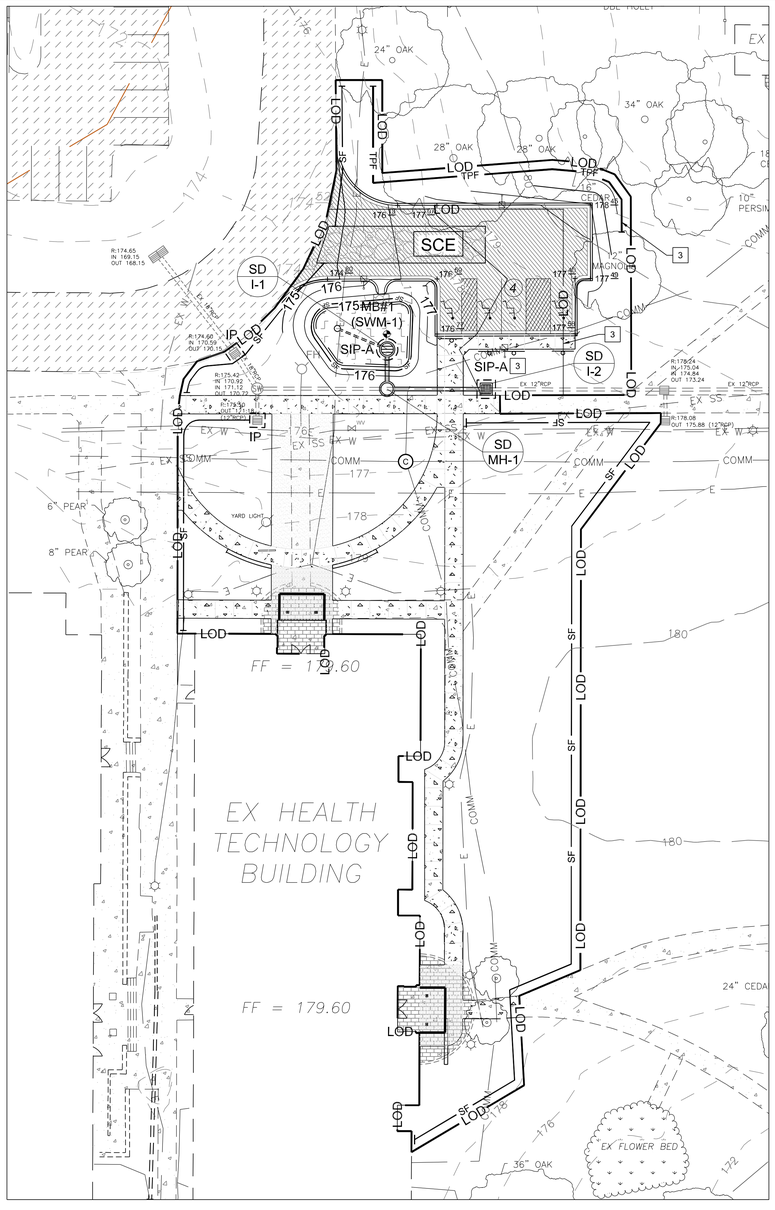
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
DEMOLITION PLAN

SHEET
C 5.0

PGM# SSWM-2200__

X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022



SEDIMENT & EROSION CONTROL

DESCRIPTION	SYMBOL	UNITS	QUANTITY
LIMIT OF DISTURBANCE (LOD)	LOD	AC ±	0.63
CLEARED AREA		AC ±	0.00
VEGETATED AREA		AC ±	0.10
STABILIZATION MATTING		SY ±	-
STABILIZED CONSTRUCTION ENTRANCE	SCE	EACH	1
SILT FENCE	SF	LF ±	630
SUPER SILT FENCE	SSF	LF ±	-
TEMPORARY CONSTRUCTION FENCE	TCF	LF ±	-
TREE PRTECTION FENCE	TPF	LF ±	130
TEMPORARY SWALE		LF ±	-
INLET PROTECTION	IP	EACH	3
STONE / GABION OUTLET STRUCTURE		EACH	-
EARTH DIKE		LF ±	-
MOUNTABLE BERM		EACH	-
EARTHWORK CUT		CY ±	240
EARTHWORK FILL		CY ±	10

NOTE: QUANTITIES ARE FOR OBTAINING PERMITS ONLY. QUANTITIES TO BE VERIFIED BY CONTRACTOR

SEQUENCE OF SITE CONSTRUCTION

A	CONTRACTOR/APPLICANT TO NOTIFY THE CHARLES COUNTY DEPARTMENT OF PLANNING AND GROWTH MANAGEMENT SEDIMENT CONTROL INSPECTORS (301) 645-0700 AT LEAST 5 DAYS PRIOR TO CONSTRUCTION AND THE COMPLIANCE PROGRAM, WATER MANAGEMENT ADMINISTRATION, MARYLAND DEPARTMENT OF THE ENVIRONMENT (410) 537-3510, 5 DAYS PRIOR TO COMMENCING WORK.
B	ALL SEDIMENT CONTROLS SHALL BE REGULARLY INSPECTED AND MAINTAINED IN ACCORDANCE WITH MDE 2011 REGULATIONS. INSPECTIONS SHALL OCCUR AT A MINIMUM WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT THE LIFE OF THIS CONSTRUCTION. ANY NEEDED MAINTENANCE SHALL BE PERFORMED IMMEDIATELY.
C	FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREAT THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED. SAME DAY STABILIZATION SHALL OCCUR IN AREAS WHERE SEDIMENT AND EROSION CONTROLS HAVE BEEN REMOVED.
E	ALL TRENCHES OR HOLES CREATED FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH OR HOLE. NO TRENCH/HOLE SHALL BE OPEN MORE THAN CAN BE STABILIZED THE SAME DAY. IF AN AREA MUST BE LEFT UNSTABILIZED OVERNIGHT, SILT FENCE WILL BE PLACED IMMEDIATELY DOWNHILL OF ALL DISTURBED AREAS AND STOCKPILES AND APPROPRIATE SAFETY MEASURES WILL BE INSTALLED AS REQUIRED.

ITEM	DESCRIPTION	ESTIMATED TIME DAYS
-	NOTE INTERIOR RENOVATIONS TO EXISTING BUILDING MAY OCCUR PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES	-
1	DISTURB ONLY WHERE NEEDED TO INSTALL REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES.	1
2	INSTALL EROSION AND SEDIMENT CONTROL PRACTICES WHERE INDICATED ON THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN. INCLUDING TEMPORARY PROTECTION FENCE (IN LOCATION DETERMINED BY OWNER).	3
3	OBTAIN THE APPROVAL OF THE CHARLES COUNTY EROSION AND SEDIMENT CONTROL INSPECTOR (301-645-0700). THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR IS REQUIRED UPON INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE.	-
4	SEDIMENT CONTROL PRACTICES WILL BE MAINTAINED ACCORDING TO THE MARYLAND 2011 STANDARDS AND COUNTY REGULATIONS, UNTIL THE ENTIRE SITE IS STABILIZED, INSPECTED AND FINAL APPROVAL IS GIVEN BY THE APPROPRIATE STATE/COUNTY AGENCY.	-
5	PERFORM DEMOLITION ACTIVITIES TO REMOVED EXISTING SITE IMPROVEMENTS INCLUDING CURBS, SIDEWALKS AND MISCELLANEOUS SITE FEATURES.	10
6*	STRIP AND STOCKPILE EXISTING TOPSOIL. BEGIN TO ROUGH GRADE THE SITE TO THE LIMITS AND GRADES SHOWN ON THE APPROVED PLAN. INSTALL SITE CURB & GUTTER AND PAVEMENT/SIDEWALK SUBBASE.	30
7*	INSTALL UTILITIES (STORM DRAIN) IN ACCORDANCE WITH THE APPROVED PLANS. STORMWATER MANAGEMENT FACILITIES ARE NOT TO BE INSTALLED UNTIL UPSTREAM DRAINAGE AREAS ARE STABILIZED &/OR PERIMETER CONTROLS PROTECTING FILTER MEDIA IS INSTALLED.	5
8*	ONCE CONTRIBUTING DRAINAGE AREA IS STABILIZED, BEING CONSTRUCTION OF BIORETETION AREA BY EXCAVATING TO GRADES PER PLANS. INSTALL PERIMETER SILT FENCE TO PROTECT THE FILTER MEDIA UNTIL UPLAND DRAINAGE AREAS ARE PERMANENTLY STABILIZED.	5
9*	COMPLETE SITE PAVING, CONCRETE FLAT WORK AND HARDSCAPE INSTALLATION.	5
10	COMPLETE FINE GRADING AND PERMANENTLY STABILIZE ALL DISTURBED AREAS AS THEY ARE BROUGHT TO FINISHED GRADE WITH TOPSOIL, SEED & MULCH OR SOD WHERE SHOWN AS PER CHALRES COUNTY SOIL CONSERVATION DISTRICT DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT.	5
11	INSTALL LANDSCAPING AND STORMWATER MANAGEMENT PLANTINGS. INSTALL SIGNAGE AND STRIPING AS INDICATED ON PLANS.	5
12	ONCE ALL AREAS ARE ADEQUATELY STABILIZED, REQUEST THE EROSION AND SEDIMENT CONTROL INSPECTOR'S APPROVAL FOR REMOVAL OF THE EROSION AND SEDIMENT CONTROL PRACTICES AND DEVICES. SEDIMENT AND EROSION CONTROLS CANNOT BE REMOVED UNTIL THE SIDE HAS ADEQUATE STABILIZATION. ONCE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUND COVER TO BE CONSIDERED ADEQUATELY STABILIZED PRIOR TO SEDIMENT CONTROL REMOVAL.	1
13	REMOVE EROSION AND SEDIMENT CONTROL PRACTICES WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR AND PERMANENTLY STABILIZE AREA AFFECTED BY REMOVAL OF DEVICES WITH TOPSOIL, SEED & MULCH AS PER CHARLES COUNTY SOIL CONSERVATION DISTRICT STANDARDS.	1
	TOTAL ESTIMATED SITE WORK CONSTRUCTION TIME:	71

* ITEMS WHICH MAY BE DONE CONCURRENTLY

SEDIMENT & EROSION CONTROL KEYED NOTES

1	ALL TRENCHES OR HOLES CREATED FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH OR HOLE. NO TRENCH/HOLE SHALL BE OPEN MORE THAN CAN BE STABILIZED THE SAME DAY. IF AN AREA MUST BE LEFT UNSTABILIZED OVERNIGHT, SILT FENCE WILL BE PLACED IMMEDIATELY DOWNHILL OF ALL DISTURBED AREAS AND STOCKPILES AND APPROPRIATE SAFETY MEASURES WILL BE INSTALLED AS REQUIRED.
2	WITH APPROVAL FROM CODES, PERMITS, & INSPECTIONS SERVICES DIVISION, ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE REMOVED PRIOR TO RELEASE OF BONDS.
3	EXPANDED LOD, TPF AND IP ARE PART OF ACCESSIBLE PARKING ADD ALTERNATE #1

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors - Engineers
Land Planners
P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3161 - 301-855-1209
FAX: 410-535-2103 - EMAIL: WPS@COANNC.COM

JOSEPH J. KADJESKI MD PE #:31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/14/23

FOLDER REFERENCE: TM-22 GRID 00 PARCEL 140

DATE	REVISION

SCALE: AS SHOWN
DATE: DEC. 2022
DESIGNED: JJK
JOB NO: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO. PGM: PGM# SSWM-2200__

SEDIMENT & EROSION CONTROL PLAN
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 6.0

FILE #: B - _ - _ F.1

USING AGENCY APPROVAL
Name / Title / Date
DGS APPROVAL
Project Manager / Date
Chief of A&E(E) / Date

JOSEPH J. KADJESKI
MD PE #:31181
12/09/2022
DATE

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 31181, expiration date 01/14/23.

DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

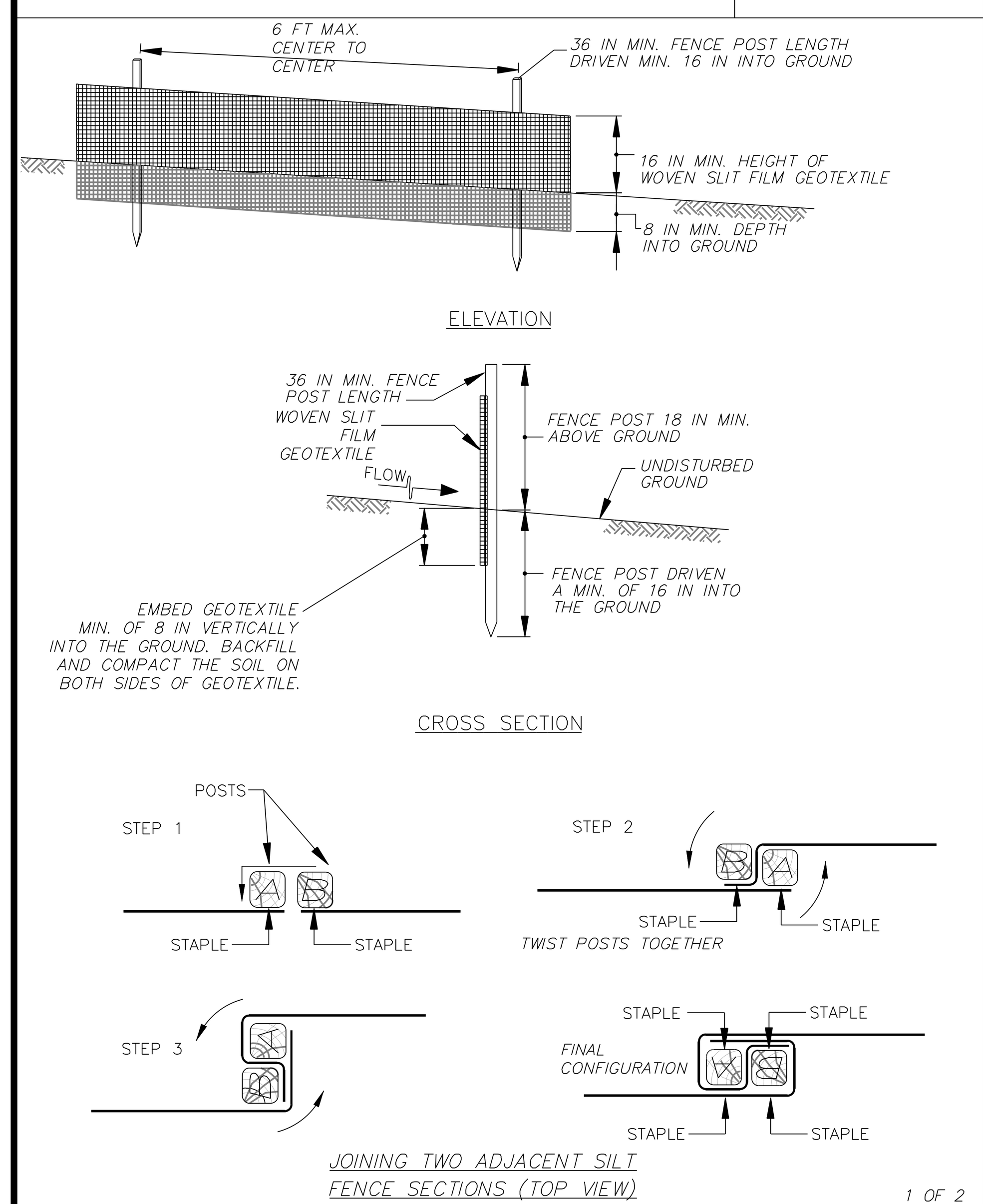
DRAWING: SEDIMENT & EROSION CONTROL PLAN

SHEET
C 6.0

PGM# SSWM-2200__
X:\3-0400 SERIES\3-0466 CSM HT\05-DRAWING FILES\SITE_22.DWG DATE PLOTTED: 12/8/2022

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL: SF

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H−1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID−SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H−1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

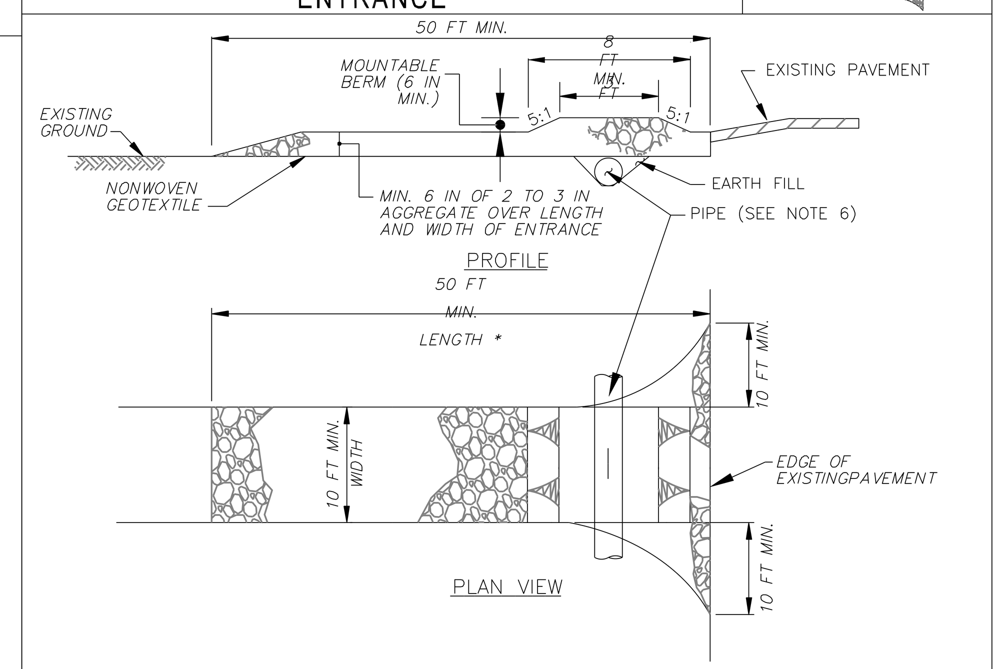
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H−1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

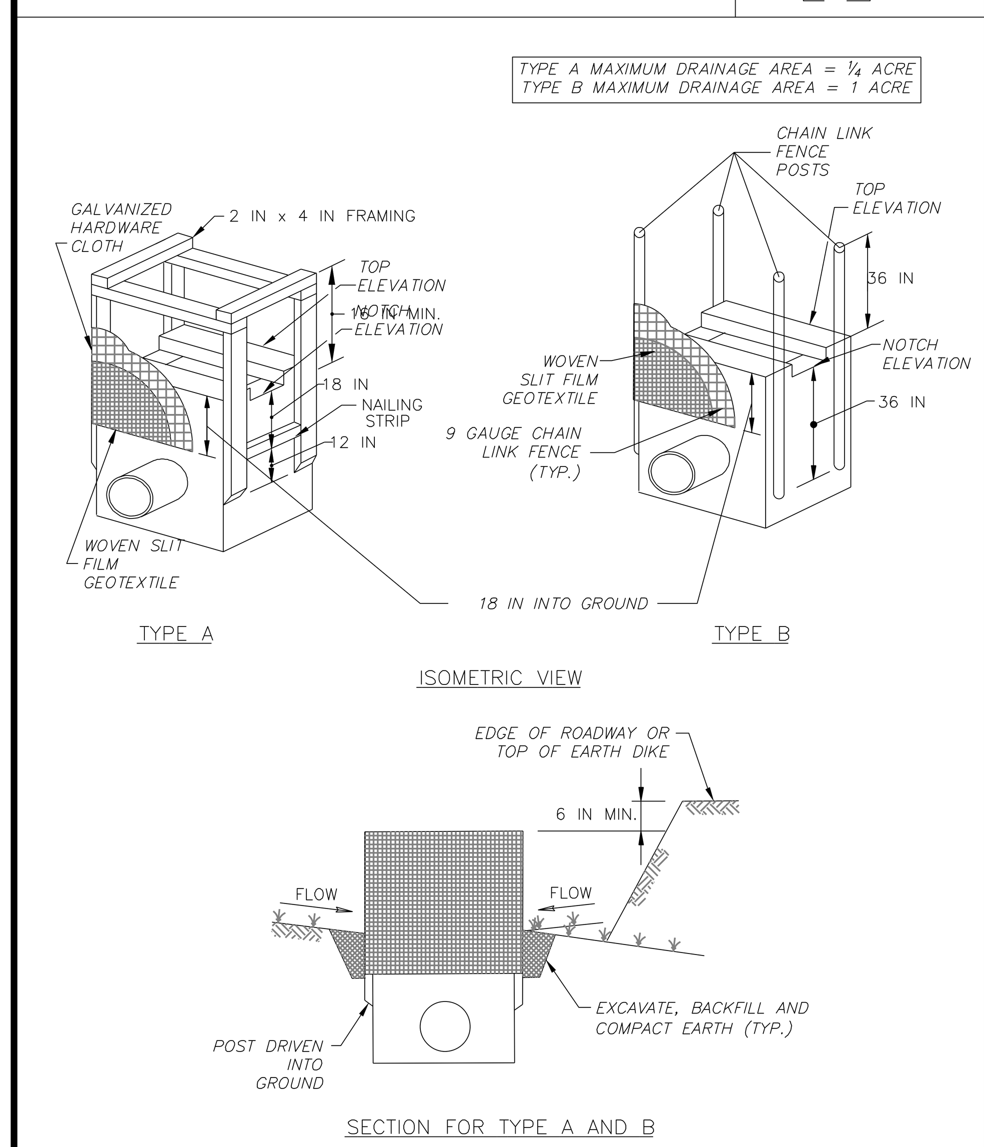
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

TYPE A MAXIMUM DRAINAGE AREA = ¼ ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL: SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H−1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ½ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

   FOR TYPE B, USE 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CHARLES SOIL CONSERVATION DISTRICT DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT

1. PERMANENT SEEDING:

A. SOIL TESTS: Lime and fertilizer will be applied per soil tests results for sites greater than 5 acres. Soil tests will be done at completion of initial rough grading or as recommended by the sediment control inspector. Rates and analyses will be provided to the grading inspector as well as the contractor.

The minimum soil conditions required for permanent vegetative establishment are:

a. Soil pH shall be between 6.0 and 7.0.
b. Soluble salts shall be less than 500 parts per million (ppm).
c. The soil shall contain less than 40% clay but enough fine grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedeza is to be planted, then a sandy soil (< 30% silt plus clay) would be acceptable.
d. Soil shall contain 1.5% minimum organic matter by weight.
e. Soil must contain sufficient pore space to permit adequate root penetration.
f. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section B-4-2 titled Standards and

Specifications for Soil Preparation, Topsoil, and Soil Amendments as found in the 2011 Maryland Standards and Specifications for Erosion and Sediment Control.

B. SEEDBED PREPARATION: Area to be seeded shall be loose and friable to a depth of at least 3 to 5 inches. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. For sites less than 5 acres, apply 100 pounds dolomitic limestone, hydrated or burnt lime may be substituted except when hydro seeding, and 10 pounds of 10-20-20 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3 to 5 inches on slopes flatter than 3:1.

C. SEEDING: Apply 5-6 pounds per 1,000 square feet of tall fescue between February 15 and April 30 or between August 15 and October 31. Apply seed uniformly on a moist firm seedbed with a cyclone seeder, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only). Maximum seed depth should be ¼ inch in clayey soils and ½ inch in sandy soils when using other than the hydroseeder method. Irrigate where necessary to support adequate growth until vegetation is firmly established. If other seed mixes are to be used, said selections must meet the 2011 Standards and Specifications for Soil Erosion and Sediment Control.

D. MULCHING: Mulch shall be applied to all seeded areas immediately after seeding as per Section B-4-3 entitled Standards and Specifications for Seeding and Mulching as found in the 2011 Standards and Specifications for Soil Erosion and Sediment Control. During the time periods when seeding is not permitted, mulch shall be applied Immediately after grading and maintained until seeding can be performed.

Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 square feet (2 bales). If a mulch-anchoring tool is used, apply 2.5 tons per acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically or by hand, to a depth of 1-2 inches.

E. SECURING STRAW MULCH: Straw mulch shall be secured immediately following mulch application to minimize movement by wind or water. The following methods are permitted:

(i) Use a mulch-anchoring tool which is designed to punch and anchor mulch into the soil surface to a minimum depth of 2 inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely. If a mulch-anchoring tool is used, apply 2.5 tons per acre.

(ii) Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. If mixed with water, use

50 pounds of wood cellulose fiber per 100 gallons of water.

(iii) Liquid binders may be used. Apply at higher rates at the edges where wind catches mulch, such as in valleys and on crests of slopes. The remainder of the area should appear uniform after binder application. Binders listed in the 2011 Standards and Specifications for Soil Erosion and Sediment Control or approved equal shall be applied at rates recommended by the manufacturers.

(iv) Lightweight plastic netting may be used to secure mulch. The netting will be stapled to the ground according to manufacturer's recommendations.

F. IRRIGATION: In the absence of adequate rainfall, irrigation should be performed to ensure adequate vegetative establishment.

2. TEMPORARY SEEDING:

LIME:	100 pounds of dolomitic limestone per 1,000 square feet.
FERTILIZER:	10 pounds of 10-20-20 per 1,000 square feet.
SEED:	Annual Ryegrass - 1 pound per 1,000 square feet (February 15 through April 30 or August 15 through November 30). Millet - 1 pound per 1,000 square feet (May 1 through August 15).
MULCH:	Same as 1 D and E above.

3. No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All fill in roadways and parking areas are to be classified as per Charles County requirements. Any fill within the building area is to be compacted to a minimum of 95% density. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

4. PERMANENT SOD:

Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted in section (B) above. Permanent sod is to be tall fescue, state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod.

5. MINING OPERATIONS:

Sediment control plans for mining operations must include the following seeding dates and mixtures:

For seeding dates of February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and sericea lespedeza at the minimum rate of 0.5 pounds per 1,000 square feet.

6. Topsoil shall be applied as per the Standard and Specifications for Topsoil from the current 2011 Maryland Standards and Specifications for Erosion and Sediment Control.

NOTE: Use of this information does not preclude meeting all of the requirements of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

COLLINSON, OLIFF & ASSOCIATES, INC.
Surveyors · Engineers
Land Planners
P.O. BOX 2209 - 110 MAIN STREET
PRINCE FREDERICK, MARYLAND 20678
410-535-3101 · 301-855-1599
FAX: 410-535-3103 · EMAIL: INFO@COAINC.COM

JOSEPH J. KADJESKI MD PE # 31181
12/09/2022
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31181, EXPIRATION DATE: 01/13/23

FOLDER REFERENCE: TM 22 GRID 00 PARCEL 140

SCALE: AS SHOWN
DATE: DEC. 2022
JOB NO.: 3-0466
DRAWN BY: MAE / MJH
APPROVED: JJK
CASE NO. PGM: PGM# SSWM-2200__

SEDIMENT AND EROSION CONTROL DETAILS
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD
SIXTH DISTRICT, CHARLES COUNTY
LA PLATA, MARYLAND 20646
FOR: RRMM ARCHITECTS

THIS STAMP IN RED COLOR INDICATES ORIGINAL

C 6.1

FILE #: B - _ - _ F.2

USING AGENCY APPROVAL

DGS APPROVAL

JOSEPH J. KADJESKI
MD PE # 31181
12/09/2022
DATE

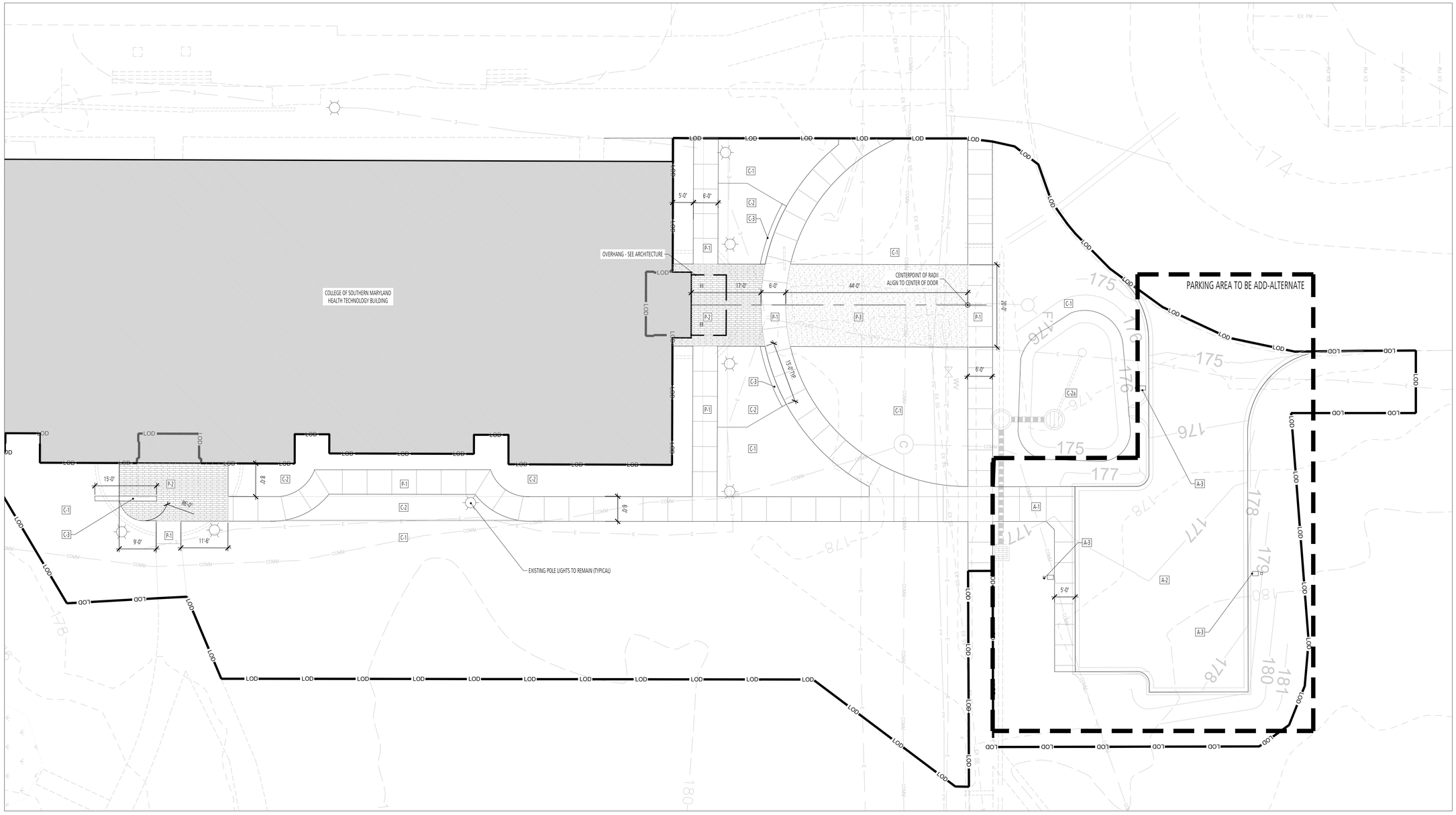
DATE	12/09/2022
PROJECT	3-0466
DESIGNED	JJK
DRAWN	MAE / MJH
CHECKED	JJK

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710 Arlington, Virginia 22206
(703)998-0101

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: SEDIMENT AND EROSION CONTROL DETAILS

SHEET: C 6.1



1 OVERALL HARDSCAPE PLAN
PLAN

SCALE: 1" = 10'-0"

0' 2.5' 5' 10' 20'

KEY NOTES:

CONSTRUCTION NOTES			
SYMBOL	ITEM TYPE	NOTES	REFERENCE
C-1	LAWN/TURF	SEED TYP.	6/L-400
C-2	PLANTING BED		5/L-400
C-2a	STORMWATER PLANTING BED	SEE CIVIL DRAWINGS	
C-3	SEAT WALL		4/L-300
PAVEMENT NOTES			
SYMBOL	**PAVEMENT TYPE**	**NOTES**	**REFERENCE**
P-1	SCORED CONCRETE	SCORING PATTERN AS SHOWN	1/L-300
P-2	SPECIAL PAVERS		2/L-300
P-3	BONDED AGGREGATE		3/L-300

ADD ALTERNATE KEY NOTES:

ADD ALTERNATE NOTES			
SYMBOL	PAVEMENT TYPE	NOTES	REFERENCE
A-1	SCORED CONCRETE	SCORING PATTERN AS SHOWN	1/L-300
A-2	ASPHALT PARKING	SEE CIVIL DRAWINGS	
A-3	LIGHT POLE	SEE ELECTRICAL PLANS	

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBLITY TO FIELD VERIFY SITE CONDITIONS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCY FOUND SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY UPON FINDING ANY UNFORESEEN CONDITIONS.
3. MAINTAIN POSITIVE DRAINAGE FROM BUILDINGS THROUGHOUT CONSTRUCTION.
4. ALL ELEVATIONS PROVIDED ARE FOR DESIGN INTENT ONLY.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ANY WASTE FROM THE SITE.
6. PROVIDE MOCK UPS OF CONCRETE FINISHES, PAVING ASSEMBLIES, AND CONCRETE WALL PRIOR TO COMPLETE INSTALLATION. APPROVED MOCK UPS MAY BE USED IN COMPLETED PROJECT IF UNDAMAGED THROUGHOUT CONSTRUCTION.
7. EXISTING CONCRETE TO ABUT PROPOSED CONCRETE SHALL BE SAW-CUT TO A SMOOTH EDGE AND GROUND FLUSH.
8. PROVIDE EXPANSION JOINT WHERE EXISTING HARDSCAPE ABUTS PROPOSED.

HARDSCAPE LEGEND:

CONCRETE

SPECIAL PAVING

BONDED AGGREGATE

USING AGENCY APPROVAL

Name Date

Title DGS APPROVAL

Project Manager Date

Chief of FM/M/D Date

MARK	DATE	BY	DESCR
REVISIONS			

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 ... expiration date

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JG
DRAWN	JG
CHECKED	JF

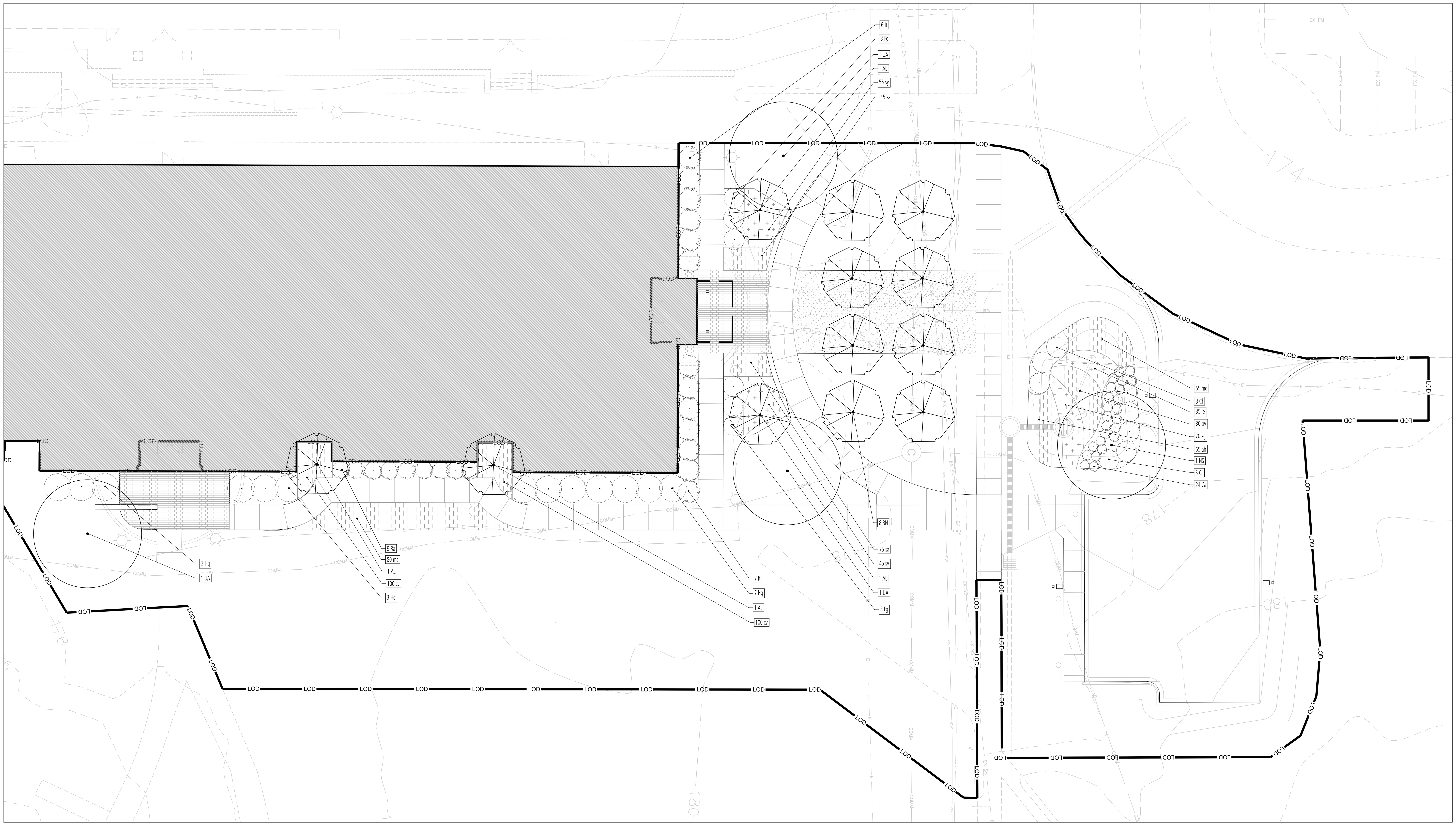
RRMM®
ARCHITECTS, PC
2900 South Quincy Street, S
Arlington, Virginia 22206
(703)998-0101

LANDSCAPE ARCHITECT
ANA ANDREA FLORESCU
No. 3000
STATE OF MARYLAND

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
OVERALL HARDSCAPE AND LAYOUT PLAN

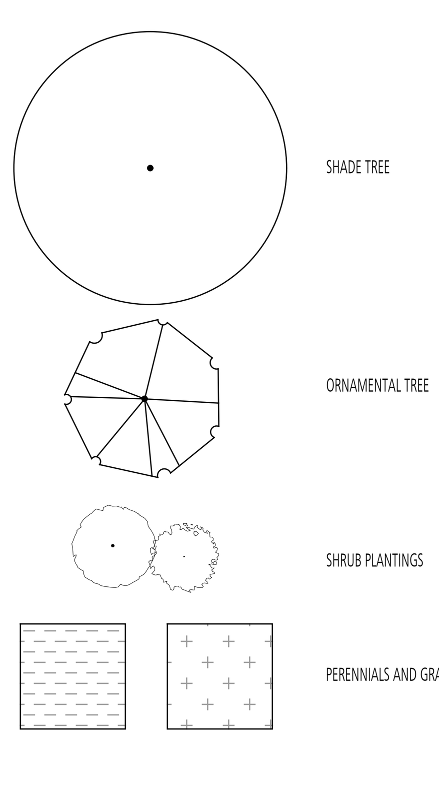
SHEET
L-100



1 PLANTING PLAN
PLAN

SCALE: 1" = 10'-0"

PLANTING LEGEND:



GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY SITE CONDITIONS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCY FOUND SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY UPON FINDING ANY UNFORESEEN CONDITIONS.
3. MAINTAIN POSITIVE DRAINAGE FROM BUILDINGS THROUGHOUT CONSTRUCTION.
4. ALL ELEVATIONS PROVIDED ARE FOR DESIGN INTENT ONLY.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ANY WASTE FROM THE SITE.
6. PROVIDE MOCK UPS OF CONCRETE FINISHES, PAVING ASSEMBLIES, AND CONCRETE WALL PRIOR TO COMPLETE INSTALLATION. APPROVED MOCK UPS MAY BE USED IN COMPLETED PROJECT IF UNDAMAGED THROUGHOUT CONSTRUCTION.
7. EXISTING CONCRETE TO ABUT PROPOSED CONCRETE SHALL BE SAW-CUT TO A SMOOTH EDGE AND GROUND FLUSH.
8. PROVIDE EXPANSION JOINT WHERE EXISTING HARDSCAPE ABUTS PROPOSED.

PLANTING NOTES:

1. ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT SCHEDULE AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK, ANSI260.1-2004" LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 230 SOUTHERN BUILDING, WASHINGTON, D.C. 20005.

2. CONTRACTOR MUST VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION. THE CONTRACTOR SHALL CALL MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND REQUIREMENTS FOR CONSTRUCTION.

3. ALL PLANT BEDS SHALL BE MULCHED WITH A 2" LAYER OF MULCH WITHIN TWO DAYS AFTER PLANTING. THIS SHALL BE SHREDDED HARDWOOD BARK, AND SHALL COVER ENTIRELY THE PLANTING BED.

4. ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWO FULL YEARS AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN, WITHIN THE SPECIFICATIONS, AND ON THE DRAWINGS.

5. EXISTING SOIL IN PLANTING BED AREAS SHALL BE AMENDED TO A MINIMUM DEPTH OF 12" PER THE SOIL PLACEMENT SPECIFICATIONS.

6. PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.

7. WHERE THE CONDITION EXISTS THAT THE BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, THE WIRE BASKETS SHALL BE REMOVED ENTIRELY. NO PORTION OF THE WIRE BASKET SHALL REMAIN INTACT AROUND THE SIDES OF THE ROOTBALL OR EXTEND ABOVE FINISHED GRADE.

8. ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURBS, WALLS, VEGETATION AND ANY OTHER EXISTING FEATURES NOT DESIGNATED FOR REMOVAL ON THESE PLANS, SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT THE HIS OR HER EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SODDED PER THE PLANS AND SPECIFICATION UNLESS OTHERWISE NOTED.

9. ALL PLANTING SELECTIONS SHALL BE MARYLAND NATIVE PLANTS. NO NON-NATIVES WILL BE ACCEPTED AS SUBSTITUTIONS.

PLANTING SCHEDULE:

Symbol	Quantity	Botanical Name	Common Name	Size	Note
Major Trees					
NS	1	*Nyssa sylvatica*	Blackgum	3" Cal.	B&B
UA	3	*Ulmus americana 'Princeton'*	Princeton Elm	3" Cal.	B&B
Minor Trees					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
AL	4	*Amelanchier laevis 'Autumn Brilliance'*	Autumn Brilliance Serviceberry	8' ht.	CG / B&B 3-5 Stems
BN	8	*Betula nigra 'Dura Heat'*	River Birch	12' Ht.	3-5 Stems
Deciduous & Coniferous Shrubs					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
Ca	24	*Clethra alnifolia 'Hummingbird'*	Hummingbird Pepperbush	2' Spr.	CG/B&B
Cf	8	*Cornus sericea 'Arctic Fire'*	Arctic Fire Red Twig Dogwood	3' ht.	CG / B&B
Fg	6	*Fothergilla gardenii*	Dwarf Fothergilla	3' ht.	CG / B&B
Hq	13	*Hydrangea quercifolia*	Oakleaf Hydrangea	36" Ht.	CG / B&B
It	13	*Itea virginica*	Virginia Sweetspire	2' ht.	CG / B&B
Ra	9	*Rhus aromatica 'gro-low'*	Gro-low Sumac	2' Spr.	CG/B&B
Grasses and Perennials					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
ah	65	*Ascelpias incarnata*	Swamp Milkweed	1 Qt.	18" OC
cv	200	*Chrysogonum virginianum*	Green and Gold	1 Qt.	12" OC
je	35	*juncus effusus*	Soft Rush	1 Qt.	18" OC
mc	80	*Muhlenbergia capillaris 'lenca'*	Regal Mist Muhly Grass	1 Gal.	24" OC
md	65	*Monarda didyma*	Bee Balm	1 Qt.	18" OC
pv	30	*Panicum virgatum 'Shenandoah'*	Switchgrass	1 Gal.	24" OC
sa	90	*Sedum 'Autumn Joy'*	Autumn Stonecrop	1 Qt.	15" OC
sy	110	*Symphyotrichum novae-angliae*	New England Aster	1 Gal.	18" OC
sg	70	*Solidago graminifolia*	Grass-leaved Goldenrod	1 Qt.	15" OC

USING AGENCY APPROVAL

DGS APPROVAL

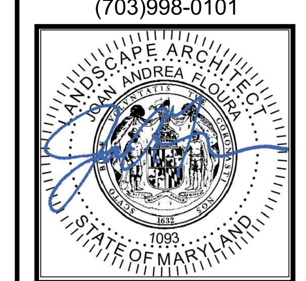
MARK | DATE | BY | DESCR

REVISIONS

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 , expiration date .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED JG
DRAWN JG
CHECKED JF

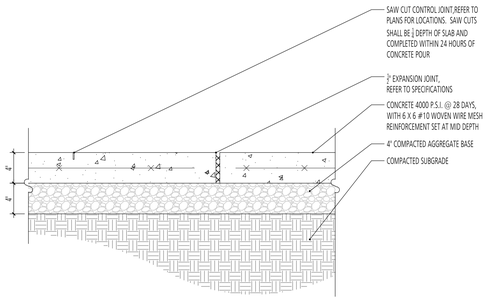
RRMM® ARCHITECTS, PC
2900 South Quincy Street, S 710
Arlington, Virginia 22206
(703)998-0101



PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

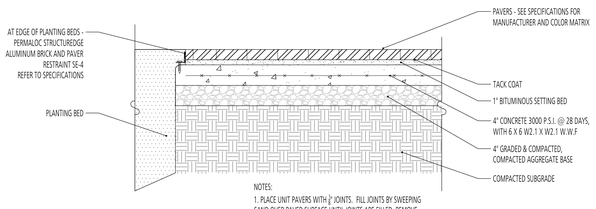
DRAWING
PLANTING PLAN

SHEET
L-200



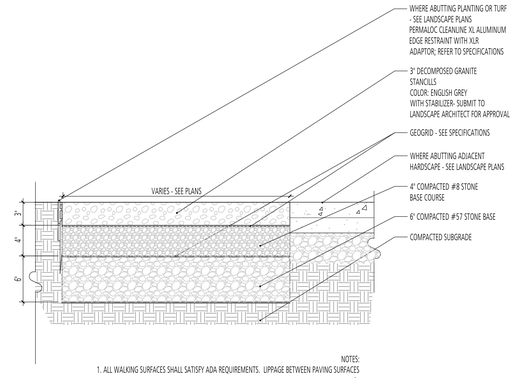
NOTE: EXPANSION JOINTS SHALL BE PLACED EVERY 15' - 20' OC, REFER TO HARDSCAPE PLANS FOR EXPANSION JOINT LOCATIONS.

1 CONCRETE WALK WITH EXPANSION JOINT
SECTION
SCALE: 1-1/2"=1'-0"



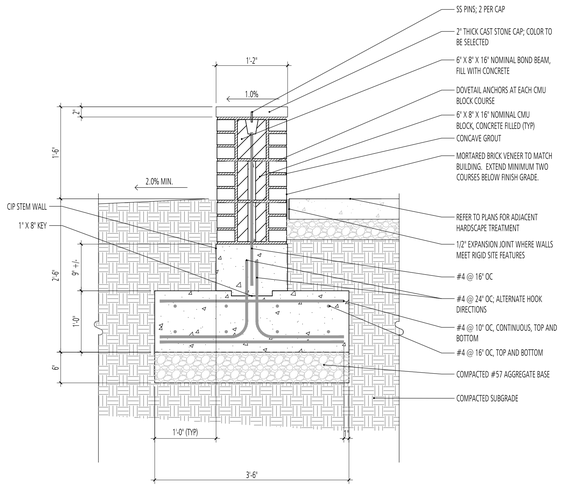
NOTES:
1. PLACE UNIT PAVERS WITH ¼" JOINTS. FILL JOINTS BY SWEEPING SAND OVER PAVED SURFACE UNTIL JOINTS ARE FILLED. REMOVE EXCESS SAND AFTER JOINTS ARE FILLED.
2. ALL WALKING SURFACES SHALL SATISFY ADA REQUIREMENTS. LIPPAGE BETWEEN PAVERS SHALL NOT EXCEED ¼".

2 PEDESTRIAN PAVER INSTALLATION
SECTION
d-paver.dwg
SCALE: 1"=1'-0"

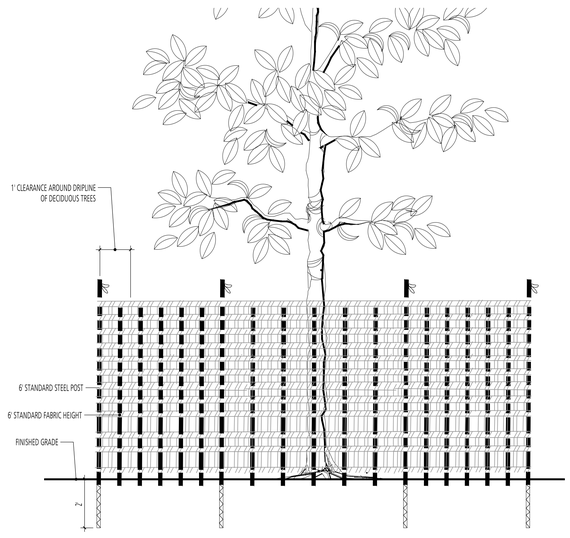


NOTES:
1. ALL WALKING SURFACES SHALL SATISFY ADA REQUIREMENTS. LIPPAGE BETWEEN PAVING SURFACES SHALL NOT EXCEED ¼".

3 BONDED AGGREGATE AND EDGING
SECTION
SCALE: 1-1/2"=1'-0"



4 BRICK SEATWALL
SECTION
d-seatwall.dwg
SCALE: 1"=1'-0"



5 DRIPLINE TREE PROTECTION
SECTION
d-tree_planting.dwg
SCALE: 1/2" = 1'-0"

USING AGENCY APPROVAL

Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM(AE) Date

MARK	DATE	BY	DESCR

REVISIONS

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 ... expiration date

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JG
DRAWN	JG
CHECKED	JF

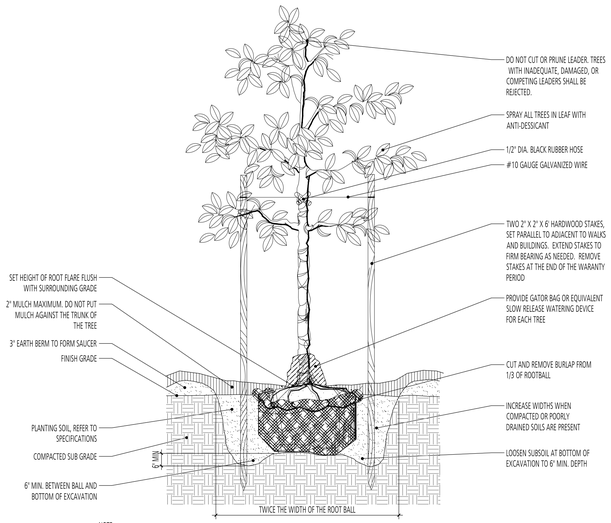
RRMM®
ARCHITECTS, PC
2900 South Quincy Street, S
Arlington, Virginia 22206
(703)998-0101

LANDSCAPE ARCHITECT ANA ANDREA FLORES 3000 STATE OF MARYLAND

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

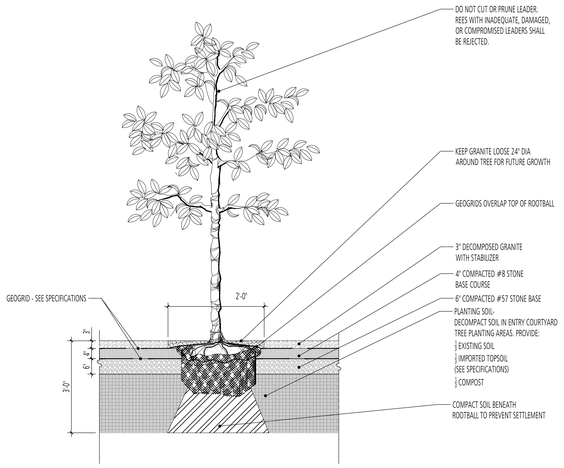
DRAWING
SITE DETAILS

SHEET
L-300

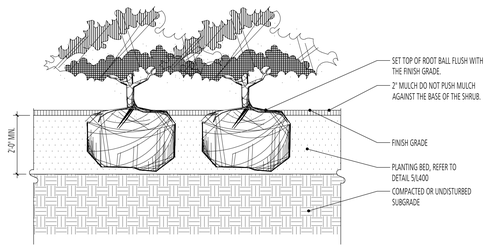


NOTE:
1. REMOVE ANY BROKEN OR DAMAGED BRANCHES WITH CLEAN CUTS.
2. ALL TREES GREATER THAN 3" CALIPER SHOULD BE GUYED, RATHER THAN STAKED.
3. IF TREE COMES IN A BASKET, REMOVE ENTIRELY. CUT BURLAP AWAY FROM THE TRUNK AND FOLD DOWN INTO HOLE AFTER LOCATION AND DEPTH HAVE BEEN APPROVED BY THE LANDSCAPE ARCHITECT.

1 TREE PLANTING DETAIL
SECTION — d-tree_planting.dwg — SCALE: 1/2" = 1'-0"

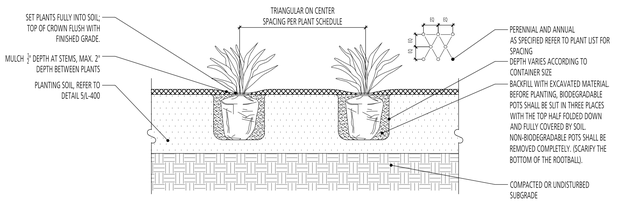


2 TREE PLANTING IN STABILIZED DECOMPOSED GRANITE
SECTION — d-street_tree_pit.dwg — SCALE: 1/2" = 1'-0"

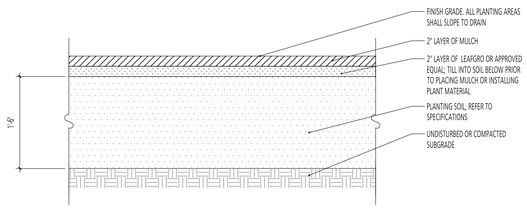


NOTES:
1. COMPLETELY REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL.
2. FOR B&B, CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.
3. PROVIDE CONTINUOUS PLANTING SOIL DEPTH FOR SHRUB BEDS.
4. SHRUBS IN PLANTING BEDS SHALL BE CONTINUALLY MULCHED WITHIN A BED WITH CLEAN SPADED EDGE.

3 SHRUB PLANTING
SECTION — d-shrub_planting.dwg — SCALE: 1/2" = 1'-0"

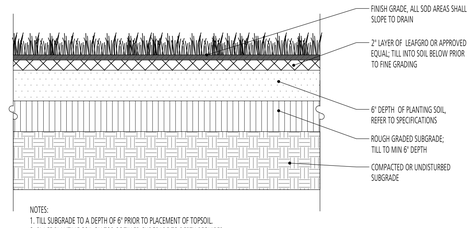


4 PERENNIAL PLANTING
SECTION — d-grndcover_planting.dwg — SCALE: 1/2" = 1'-0"



NOTES:
1. PLACE PLANTING SOIL IN 6" LIFTS TO DEPTH REQUIRED.
2. COMPACT EACH LIFT TO PREVENT SETTLEMENT.
3. FINE GRADE FINISHED PLANTING BED AREA PRIOR TO PLANTING OR MULCHING.
4. PLANT AS PER DETAILS, NOTES, AND SPECIFICATIONS.
5. PLANTING BEDS SHALL BE ENTIRELY MULCHED WITH A CLEAN SPADED EDGE UNLESS OTHERWISE NOTED.
6. PROTECT PREPARED PLANTING BEDS FROM SUBSEQUENT CONSTRUCTION ACTIVITY.

5 PLANTING BED PREPARATION
SECTION — d-soil_prep.dwg — SCALE: 1"=1'-0"



NOTES:
1. TILL SUBGRADE TO A DEPTH OF 6" PRIOR TO PLACEMENT OF TOPSOIL.
2. PLACE PLANTING SOIL ON TOP OF TILLED SUBGRADE TO DEPTH REQUIRED.
3. FINE GRADE SOD AREA PRIOR TO PLACING SOD. FINISHED ELEVATION SHALL BE FLUSH WITH SURROUNDING GRADE.
4. PROTECT AREAS FROM SUBSEQUENT CONSTRUCTION ACTIVITY AFTER PLACING SOD.

6 SOD INSTALLATION
SECTION — d-lawn detail sod.dwg — SCALE: 1"=1'-0"

USING AGENCY APPROVAL
Name — Date
Title — DGS APPROVAL
Project Manager — Date
Chief of PM(DGS) — Date

MARK	DATE	BY	DESCR

REVISIONS

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 ... expiration date

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JG
DRAWN	JG
CHECKED	JF

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, S
Arlington, Virginia 22206
(703)998-0101

LANDSCAPE ARCHITECT — ANA ANDREA FLOREZ — 1093 — STATE OF MARYLAND

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
PLANTING DETAILS

SHEET
L-400

FOUNDATION AND SLAB ON GRADE:

NOTE: 1
FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 2500 PSF. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL 1'-0" BELOW ORIGINAL GRADE OR ON STRUCTURALLY COMPACTED FILL. BOTTOM OF EXTERIOR FOOTINGS SHALL BE 2'-6" BELOW FINISHED GRADE. A GEOTECHNICAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHALL VERIFY THE SOIL BEARING CAPACITY IN THE FIELD. IF FOUND TO BE LESS THAN THE REQUIRED BEARING PRESSURE, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

NOTE: 2
ALL FILL UNDER SLABS-ON-GRADE SHALL BE COARSE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. SLABS-ON-GRADE SHALL BE POURED IN ACCORDANCE WITH ACI 302.1R, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (LATEST LOCAL APPROVED EDITION). SAW CUT CONTROL JOINTS SUCH THAT TOTAL AREA BOUNDED BY SAW CUTS AND FORMED EDGES DOES NOT EXCEED XXX FT^2 AND LONG SIDE TO SHORT SIDE DOES NOT EXCEED A 1.5:1 RATIO. PROVIDE #4 x3'-0" LONG BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINT CORNERS THAT DO NOT HAVE A CONTROL/CONSTRUCTION JOINT TERMINATING.

CONCRETE:

NOTE: 1
ALL CONCRETE, EXCEPT AS NOTED, SHALL BE f'_c=3000 PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE f'_c=5000 PSI NORMAL WEIGHT CONCRETE AND SHALL BE AIR ENTRAINED FOR EXPOSURE CLASS F3 PER ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI SP-66, "ACI DETAILING MANUAL" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) EXCEPT AS OTHERWISE NOTED.

NOTE: 4
WELDED WIRE FABRIC (W.W.F.) SHALL HAVE ENDS LAPPED ONE FULL MESH AND SHALL BE ADEQUATELY SUPPORTED BY CHAIRS OR BOLSTERS. WELDED WIRE FABRIC SHALL BE PLACED WITHIN THE UPPER THIRD OF THE SLAB ON GRADE AND 3/4" CLEAR FRO THE TOPS OF THE SLABS ON METAL DECK.

NOTE: 5
WALL FOOTING REINFORCING SHALL EXTEND 2'-0" INTO ADJACENT COLUMN FOOTING, UNLESS OTHERWISE NOTED.

NOTE: 6
UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH = 3"
EXPOSED TO EARTH OR WEATHER:
NO. 6 AND LARGER BARS = 2"
NO. 5 AND SMALLER BARS = 1 1/2"
NOT EXPOSED TO EARTH OR WEATHER:
SLABS AND WALLS = 3/4"

NOTE: 7
NO OPENINGS SHALL BE MADE THROUGH EXISTING CONCRETE PLANK FLOORS UNLESS THESE ARE SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR ON THE APPROVED STRUCTURAL SHOP DRAWINGS.

NOTE: 8
THE CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI 318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT, WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

NOTE: 9
ALL CONCRETE WORK SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF THE FOLLOWING ACI AND ASTM DOCUMENTS:
- ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE
- ACI-318 CODE
- ACI-214 COMPRESSIVE TEST
- ACI-306 COLD WEATHER
- ACI SP-66 DETAILING
- ACI-347 FORMWORK
- ACI-305 HOT WEATHER
- ACI-211 PROPORTIONS OF CONCRETE
- ACI-304 PLACING CONCRETE
- ASTM C-94 READY-MIX CONCRETE

NOTE: 10
ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF ASTM:
- ASTM C-31 FIELD CYLINDER SPECIMENS
- ASTM C-143 SLUMP TEST
- ASTM C-231 AIR CONTENT (WHEN REQUIRED)
- ASTM C-39 LAB TESTING CYLINDERS
- ASTM C-172 SAMPLING FRESH CONCRETE
- ASTM C-42 HARDENED CORES (WHEN REQUIRED)

TEST RESULTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

MASONRY:

NOTE: 1
CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION C90. CONCRETE MASONRY SHALL BE SAMPLED AND TESTED BY THE MASONRY SUPPLIER ACCORDING TO ASTM C140. ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) AND TMS 602, "SPECIFICATION FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
UNLESS OTHERWISE NOTED, CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA. ALL BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3350 PSI ON THE NET AREA.

NOTE: 3
ALL MORTAR SHALL CONFORM TO ASTM C270. MORTAR TO BE USED SHALL BE SAMPLED AND TESTED BY THE BRICK AND MASONRY SUPPLIERS ACCORDING TO ASTM C780 AND RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. MORTAR SHALL BE PORTLAND CEMENT/LIME MORTAR TYPE "S" AS A MINIMUM.

NOTE: 4
UNLESS NOTED OTHERWISE, PROVIDE 8" MINIMUM OF BRICK OR 100% SOLID MASONRY CONTINUOUS BELOW ALL JOISTS OR SLAB BEARING LINES. PROVIDE 16" MINIMUM BRICK OR 100% SOLID MASONRY BELOW ALL LINTELS AND/OR MINOR WALL BEARING BEAMS.

NOTE: 5
LOOSE LINTELS FOR OPENINGS IN MASONRY BEARING WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:
- 0'-0" TO 3'-0"........................3 1/2 "x3 1/2"x5/16"ANGLE
- 3'-1" TO 5'-0"........................4"x3 1/2"x5/16" ANGLE
- 5'-1" TO 6'-0"........................5"x3 1/2"x3/8" ANGLE
- 6'-1" TO 8'-0"........................6"x3 1/2"x3/8" ANGLE

ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.

NOTE: 6
LINTELS OVER OPENINGS 10'-0" WIDE OR LESS IN INTERIOR NON-BEARING MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST LIGHTWEIGHT CONCRETE LINTELS REINFORCED WITH 1-#5 BAR TOP AND BOTTOM FOR EACH 4" WIDTH.

NOTE: 7
ALL SOLID CMU SHALL BE 100% SOLID BLOCK OR HOLLOW BLOCK WITH CELLS FILLED 100% SOLID WITH f 'c=3000 PSI COARSE AGGREGATE GROUT CONFORMING TO ASTM C476. GROUT SHALL BE PLACED IN POUR HEIGHTS NOT TO EXCEED 4'-0" AS CMU CONSTRUCTION PROGRESSES. THE WEBS OF THE MASONRY UNITS SHALL BE FULLY MORTARED AROUND ALL GROUTED CELLS.

NOTE: 8
ALL REINFORCED CELLS IN HOLLOW BLOCK SHALL BE GROUTED 100% SOLID PER NOTE ABOVE.

NOTE: 9
ALL SPLICES IN REINFORCING STEEL FOR MASONRY WALLS SHALL AS FOLLOWS UNLESS NOTED OTHERWISE:
- #4 BAR ----- 2'-8"
- #5 BAR ----- 3'-4"
- #6 BAR ----- 4'-0"

NOTE: 10
ALL CMU WALLS 8" OR WIDER SHALL HAVE THE FOLLOWING MINIMUM REINFORCING UNLESS NOTED OTHERWISE:
- INTERIOR WALLS ....#5 AT 48" o.c.
- EXTERIOR WALLS..........#5 AT 48" o.c.

NOTE: 11
IN ADDITION TO REINFORCING STEEL NOTED ON PLANS, SCHEDULES AND SECTIONS, PROVIDE VERTICAL BARS OF SAME SIZE WITHIN 8"OF EACH SIDE OF WALL CONTROL JOINTS, WITHIN 8" OF THE ENDS OF WALLS, WITHIN 16" OF EACH SIDE OF OPENINGS AND AT ALL CORNERS.

NOTE: 12
REINFORCING BAR POSITIONERS SHALL BE USED TO HOLD BARS IN PROPER LOCATION. POSITIONERS SHALL BE PLACED AT A MAXIMUM VERTICAL SPACING OF 48"o.c.

NOTE: 13
ALL 6" CMU NON-BEARING WALLS SHALL BE DOWELED TO THE SUPPORTING SLAB WITH #4 AT 48"o.c. UNLESS NOTED OTHERWISE.

NOTE: 14
ALL MASONRY ANCHORS SHALL BE INSTALLED IN MASONRY THAT HAS BEEN GROUTED SOLID A MINIMUM OF 8" ABOVE AND BELOW THE ANCHOR AND A MINIMUM OF 8" EACH SIDE OF THE ANCHOR.

NOTE: 15
MASONRY CONSTRUCTION SHALL BE INSPECTED PER TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) REQUIRED QUALITY ASSURANCE LEVEL:
RISK CATEGORY 2 ----- LEVEL 2

NOTE: 16
CONDUIT PLACED IN MASONRY SHALL CONFORM TO TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION). A SINGLE VERTICAL CONDUIT WITH A MAXIMUM DIAMETER OF 1" IS PERMITTED IN MASONRY PIERS. CONDUIT SHALL BE PLACED A MINIMUM 1" CLEAR FROM ALL VERTICAL REINFORCEMENT. LARGER CONDUIT AND/OR GREATER QUANTITIES ARE NOT PERMITTED IN MASONRY PIERS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD. NO CONDUIT SHALL BE PLACED IN BOND BEAMS.

NOTE: 17
TYPICAL INFILLING, REMOVAL AND REPAIR OF EXISTING MASONRY

INFILLING:
WHERE NEW MASONRY IS TO BE ADDED, THE MASONRY SHALL BE TOOTHED AND MORTARED (SEE GUIDELINES FOR "REPAIR"). THE NEW MASONRY SHALL BEAR ON NEW CONCRETE FOUNDATIONS OR ON THE EXISTING MASONRY. IN THE LATER CASE, THE EXISTING MASONRY SHALL BE REMOVED TO GOOD, SOLID MATERIAL. THE DRAWINGS INDICATE THE APPROXIMATE EXTENT OF THE REQUIRED MASONRY INFILL. THIS IS A GUIDE ONLY AND THE EXACT EXTENT SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. WHEN THE RESULTING MASONRY WOULD BE PART NEW AND PART EXISTING AND WOULD FORM A PIER OR OTHERWISE SMALL ELEMENT, REMOVE ALL THE EXISTING MASONRY AND MAKE A NEW PIER OR WALL.

REMOVING:
IN THOSE AREAS WHERE NEW OPENINGS MUST BE MADE THROUGH EXISTING MASONRY WALLS, THE EXISTING MASONRY SHALL BE CAREFULLY REMOVED AFTER THE WALL THAT REMAINS ABOVE THE PROPOSED OPENING HAS BEEN TEMPORARILY SUPPORTED OR AFTER THE LINTELS HAVE BEEN PUT IN PLACE. ANY REQUIRED CUTTING BEYOND THE MASONRY OPENING SHALL BE PATCHED WITH MASONRY AND MORTAR (SEE GUIDELINES FOR "REPAIR"). WHEN THE MASONRY THAT REMAINS AFTER REMOVAL WOULD RESULT IN A PIER OR OTHERWISE SMALL ELEMENT, THE EXISTING MASONRY SHALL BE REMOVED AND A NEW PIER OR WALL SHALL BE CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHOWING THE SUPPORT OF THE WALLS PRIOR TO AND DURING THE INSTALLATION OF LINTELS REQUIRED TO SUPPORT THE MASONRY ABOVE THE NEW OPENING.

REPAIR:
IN THOSE AREAS WHERE THE EXISTING MASONRY HAS DETERIORATED, SAGGED OR CRACKED, THE MASONRY SHALL BE REMOVED AND REPLACED. EXISTING BRICKS MAY BE RE-USED PROVIDED THAT THEY ARE IN GOOD CONDITION. THE NEW MORTAR USED TO REPLACE THE EXISTING MORTAR SHALL MATCH SOUND EXISTING MORTAR IN STIFFNESS AND CONSISTENCY. IF NEW BRICKS ARE REQUIRED, THEY ALSO SHALL MATCH EXISTING BRICKS IN GOOD CONDITION. THE NEW MASONRY SHALL BE TOOTHED INTO THE EXISTING WALL. THE ARCHITECT SHALL APPROVE ALL NEW MASONRY WORK.

STEEL:

NOTE: 1
STRUCTURAL STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992. STRUCTURAL STEEL FOR HSS MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A500 GRADE C. STRUCTURAL STEEL FOR PIPES SHALL CONFORM TO ASTM SPECIFICATION A53 TYPE E, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM SPECIFICATION A36. MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE. ALL CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL DEVELOP THE ALLOWABLE UNIFORM LOAD OF THE BEAM. CONNECTIONS FOR COMPOSITE BEAMS SHALL DEVELOP THE REACTION NOTED ON THE PLANS. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS UNLESS OTHERWISE NOTED AND SHOP CONNECTIONS SHALL BE WELDED.

NOTE: 2
BOLTS, EXCEPT AS NOTED, NEED ONLY BE INSTALLED TO THE "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS." BOLTS IN BEAM TO COLUMN CONNECTIONS THAT HAVE SLOTTED HOLES, BOLTS NOTED AS SLIP CRITICAL, AND BOLTS SUBJECT TO DIRECT TENSION SHALL BE FULLY PRE-TENSIONED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.

NOTE: 4
ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE, SINGLE ANGLE, SINGLE PLATE, OR THRU PLATE CONNECTIONS PER THE TYPICAL DETAILS OF THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE SELECTED BY THE STEEL DETAILER BASED ON THE CONNECTION TABLES PROVIDED IN THE TYPICAL DETAILS. LOADS SHOWN IN THE DRAWINGS ARE ASD LOADS UNLESS OTHERWISE NOTED.

NOTE: 5
ALL GROOVE WELDS SHALL BE FULL PENETRATION GROOVE WELDS IN ACCORDANCE WITH ANSI/AWS D1.1, "STRUCTURAL WELDING CODE" (LATEST LOCAL APPROVED EDITION). THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE "STRUCTURAL WELDING CODE." ACCEPTANCE SHALL BE SUBJECT TO THE INSPECTION AND REVIEW OF AN INDEPENDENT INSPECTION AGENCY. ALL FULL PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED.

NOTE: 6
HOLES AND OPENINGS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

NOTE: 7
FIELD MODIFICATION OF THE STRUCTURAL STEEL IS NOT ALLOWED WITHOUT PRIOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

NOTE: 8
WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS MINIMIZED AND UNDUE DISTORTION IS AVOIDED.

NOTE: 9
ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. ALL EXPOSED STEEL AND LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED. REFER TO ARCHITECTURAL DRAWINGS FOR GALVANIZED STEEL THAT SHALL RECEIVE A PAINTED FINISH COAT.

METAL DECK:

NOTE: 1
FABRICATION AND ERECTION OF ALL METAL DECK SHALL CONFORM TO THE LATEST EDITION OF STEEL DECK INSTITUTE SPECIFICATIONS.

NOTE: 2
ROOF DECK SHALL BE MADE OF STEEL CONFORMING TO ASTM A653 SS GRADE 50. GALVANIZED DECK SHALL HAVE COATING DESIGNATION G60.

NOTE: 3
DECK SHALL BE WELDED TO SUPPORTING STEEL AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS AT 12"o.c., AND AS NOTED ON PLANS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SIDE LAPS SHALL BE WELDED OR SCREWED AT MID SPAN AND AS NOTED ON PLANS.

NOTE: 4
PROVIDE RIDGE AND VALLEY PLATES, REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS SHOWN ON THE DRAWINGS OR AS REQUIRED.

NOTE: 5
DO NOT HANG ANY EQUIPMENT, LIGHTS, DUCTS, PIPES, ETC., FROM METAL ROOF DECK.

SUPPORT FOR DUCTWORK, PIPING AND MECHANICAL UNITS:

NOTE: 1
NO MECHANICAL UNITS SHALL BE PLACED ON OR HUNG FROM JOISTS WITHOUT THE APPROVAL OF THE ENGINEER. NO UNITS SHALL BE SUPPORTED FROM THE BOTTOM CHORD OF THE JOIST.

NOTE: 2
DUCTWORK AND PIPING SHALL ONLY BE HUNG FROM THE STEEL FRAMING. AT JOISTS, HANGERS SHALL BE SUPPORTED FROM THE TOP CHORD PANEL POINT AND THE LOAD ON INDIVIDUAL HANGERS SHALL NOT EXCEED 300 POUNDS.

NOTE: 3
PIPE RISERS SHALL BE SUPPORTED FROM THE FLOOR SLAB BELOW WITH A CLAMP OR STANCHION.

NOTE: 4
JOISTS AND TRUSSES HAVE BEEN EVALUATED FOR A UNIFORM HANGING SPRINKLER LOAD OF 3 PSF. THE SPRINKLER CONTRACTOR SHALL SPACE THE SPRINKLERS SO THAT THE UNIFORM HANGING SPRINKLER LOAD IS NOT EXCEEDED. SPRINKLER LINES 4" AND LARGER THAT RUN PARALLEL WITH THE JOISTS/TRUSSES SHALL BE PLACED EVENLY BETWEEN TWO JOISTS/TRUSSES. SPRINKLER PIPES SHALL BE HUNG FROM THE TOP CHORD PANEL POINT OF THE STEEL JOISTS. THE LOAD ON EACH INDIVIDUAL HANGER SHALL NOT EXCEED 300 POUNDS.

NOTE: 5
THE MAXIMUM TOTAL HUNG LOAD ON ANY SINGLE JOIST OR TRUSS FROM MULTIPLE HANGERS SHALL NOT EXCEED THE LOAD IN THE TABLE BELOW.

ALLOWABLE HANGER LOAD SCHEDULE - SPRINKLER SYSTEM

JOIST	ALLOWABLE MAXIMUM ADDITIONAL LOAD
28" JOIST	760 LB
12" JOIST	324 LB
WOOD TRUSS	220 LB

NOTES:
1. LOADS IN TABLE APPLY TO SPRINKLER LOADS ONLY

POST-INSTALLED ANCHORS AND REINFORCING:

NOTE: 1
ANCHORS SHALL BE THE FOLLOWING TYPES MANUFACTURED BY HILTI, INC.:
a. ADHESIVE ANCHORS IN CONCRETE: HILTI HIT-HY200 ANCHORING SYSTEM PER ICC ESR-3187 WITH HILTI HIT-Z THREADED ROD.
b. ADHESIVE ANCHORS IN SOLID GROUTED MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-4143/ESR-4144 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD.
c. ADHESIVE ANCHORS IN HOLLOW AND MULTI-WYTHE MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-2682 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD AND APPROPRIATE SIZE SCREEN TUBE.
d. MECHANICAL ANCHORS IN CONCRETE: HILTI KWIK BOLT TZ2 EXPANSION ANCHOR PER ICC ESR-4266
e. MECHANICAL ANCHORS IN SOLID GROUTED MASONRY: HILTI KWIK BOLT TZ2 EXPANSION ANCHOR PER ICC ESR-4561

ALTERNATE MANUFACTURERS OR ANCHORS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO USE. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS DEMONSTRATING THAT THE PROPOSED SUBSTITUTIONS, BASED ON THEIR SPECIFIC ICC-ES EVALUATION REPORTS, ARE CAPABLE OF ACHIEVING THE PERFORMANCE VALUES EQUAL TO OR GREATER THAN THOSE OF THE ANCHORS SPECIFIED.

NOTE: 2
ADHESIVE ANCHORS AND REINFORCING SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS BEEN ALLOWED TO CURE FOR 21 DAYS AND HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 3
MECHANICAL ANCHORS SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 4
ALL POST INSTALLED ANCHORS AND REINFORCING SHALL BE INSTALLED IN DRY HOLES THAT HAVE BEEN DRILLED, CLEANED AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND THE RESPECTIVE ICC ES EVALUATION REPORTS.

NOTE: 5
THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE ANCHORING PRODUCTS SPECIFIED IN THE DRAWINGS. PRIOR TO INSTALLATION OF ANY ANCHORS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT DOCUMENTED CONFIRMATION FROM THE MANUFACTURER'S REPRESENTATIVE THAT THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL THE ANCHORS HAVE BEEN PROPERLY TRAINED FOR THE SPECIFIED ANCHORS.

NOTE: 6
IN ADDITION TO TRAINING BY THE MANUFACTURER'S REPRESENTATIVE, THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL ADHESIVE ANCHORS IN CONCRETE SHALL BE CERTIFIED BY AN ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

NOTE: 7
ALL ANCHORS AND REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE ARCHITECT PRIOR TO INSTALLING THE ANCHORS IF THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS CANNOT BE ACHIEVED. IF THIS IS THE CASE, RE-DESIGN MIGHT BE REQUIRED AND THE ANCHORS SHOULD NOT BE INSTALLED UNTIL APPROVAL HAS BEEN PROVIDED BY COLUMBIA ENGINEERING, INC.

NOTE: 8
MECHANICAL ANCHORS INSTALLED IN GROUTED MASONRY SHALL BE LOCATED A MINIMUM 1 1/2" FROM VERTICAL MORTAR JOINTS.

NOTE: 9
DO NOT CUT ANY REINFORCING UNLESS IT IS SPECIFICALLY INDICATED IN THE DRAWINGS OR IS APPROVED BY COLUMBIA ENGINEERING INC.

NOTE: 10
POST INSTALLED ANCHORS AND REINFORCING SHALL ONLY BE USED WHERE SPECIFIED IN THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM COLUMBIA ENGINEERING INC. PRIOR TO INSTALLING POST INSTALLED ANCHORS WHERE CAST IN PLACE ANCHORS ARE MISSING, MISPLACED OR DAMAGED.

NOTE: 11
POST INSTALLED ANCHORS AND REINFORCING SHALL BE PERIODICALLY INSPECTED PER IBC 2018 SECTION 1705 EXCEPT ADHESIVE ANCHORS AND REINFORCING INSTALLED IN A VERTICAL OR OVERHEAD SURFACE SHALL BE CONTINUOUSLY INSPECTED.

RIGGING, HOISTING AND SCAFFOLDING REQUIREMENTS:

NOTE: 1
THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT FOR REVIEW A SITE SPECIFIC RIGGING AND HOISTING PLAN FOR ALL MAJOR EQUIPMENT THAT WILL BE TRANSPORTED THROUGH OR HOISTED FROM THE BUILDING. THE PLAN SHALL INCLUDE THE SEQUENCE OF ERECTION, THE DESCRIPTION OF THE RIGGING, HOISTING AND TRANSPORTATION EQUIPMENT AND THE SITE PREPARATIONS THAT WILL BE NEEDED TO COMPLETE THE INSTALLATION.

NOTE: 2
THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT FOR REVIEW A SITE SPECIFIC PLAN FOR ALL SCAFFOLDING THAT WILL BE INSTALLED ON FRAMED FLOORS AND ROOFS.

NOTE: 3
THE PROPOSED RIGGING, HOISTING OR SCAFFOLDING PLAN SHALL BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. THE PROFESSIONAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED CERTIFICATION STATING THAT THE PROPOSED PLAN WILL NOT DAMAGE OR OVERSTRESS THE STRUCTURE.

NOTE: 4
IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE LOADS SUPERIMPOSED BY THE RIGGING, HOISTING OR SCAFFOLDING SYSTEMS WILL NOT EXCEED THE FOLLOWING LOADS:
- FRAMED FLOORS = 100 PSF
- ROOFS = 30 PSF

NOTE: 5
THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL FINISHES.

EXISTING CONSTRUCTION:

NOTE: 1
COLUMBIA ENGINEERING INC. PREPARED THESE PLANS BASED ON A LIMITED AMOUNT OF FIELD EXPLORATION AND ON THE STRUCTURAL INFORMATION SHOWN IN DRAWINGS S-1 THROUGH S-4 PREPARED BY STRUCTURAL ENGINEERING CORPORATION DATED 2-10-1989. THE EXISTING MEMBER SIZES ARE NOTED (E) AND ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING MEMBERS SHOWN IN THE PLANS MATCH EXISTING AS BUILT CONDITIONS PRIOR TO PREPARING SHOP DRAWINGS. IF THE AS BUILT CONDITIONS DO NOT CONFORM TO THE INFORMATION SHOWN IN THE PLANS, OR IF ANY STRUCTURAL MEMBER IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR SHALL INFORM COLUMBIA ENGINEERING INC. OF THE ACTUAL SIZES AND/OR CONDITION. RE-DESIGN AND ADDITIONAL FRAMING MAY BE REQUIRED IN THAT CASE.

NOTE: 2
ALL NEW PENETRATIONS THROUGH THE EXISTING FRAMED FLOORS, ROOFS AND WALLS SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS SHOWING ALL PROPOSED OPENINGS AND SHALL SUBMIT THESE FOR REVIEW AND APPROVAL PRIOR TO CUTTING ANY OPENINGS.

NOTE: 3
NEW PENETRATIONS SHOWN IN THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, MEP AND TELECOMMUNICATION DRAWINGS FOR ALL PENETRATIONS.

NOTE: 4
ALL NEW PIPE AND DUCT PENETRATIONS SHALL BE LOCATED BY THE CONTRACTOR TO AVOID CONCRETE SLAB REINFORCEMENT AND SUPPORTING MEMBERS UNDER THE SLAB OR ROOF. IF CUTTING OF ANY REINFORCEMENT OR EXISTING SUPPORTING MEMBER CANNOT BE AVOIDED, THEN PRIOR TO CUTTING, THE CONTRACTOR SHALL PREPARE A DETAILED DRAWING SHOWING THE PROPOSED PENETRATION AND ALL THE AFFECTED REINFORCEMENT AND SUPPORTING MEMBERS AND SHALL SUBMIT THE DRAWING TO COLUMBIA ENGINEERING INC. FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT CUT ANY REINFORCEMENT OR MEMBER WITHOUT THE PRIOR APPROVAL OF COLUMBIA ENGINEERING, INC.

MISCELLANEOUS:

NOTE: 1
ITEMS AND CONDITIONS NOTED OR IDENTIFIED IN SECTIONS AND DETAILS APPLY TO AREAS SIMILAR IN CONDITION TO THOSE DENOTED BY THE SECTION CUT OR DETAIL MARK.

NOTE: 2
THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION.

NOTE: 3
SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS MUST BE SUBMITTED BY THE CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM COLUMBIA ENGINEERING, INC., WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND/OR THE DESIGN OF THE PROJECT.

NOTE: 4
REPRODUCTION OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

NOTE: 5
SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER REVIEW:
a. CONCRETE/GROUT MIX DESIGNS
b. CONCRETE/MASONRY REINFORCING STEEL
c. CONSTRUCTION/CONTROL JOINT LAYOUT FOR SLABS ON GRADE
d. STRUCTURAL STEEL
e. METAL DECK
SEE SPECIFICATIONS FOR ADDITIONAL REQUIRED SUBMITTALS.

NOTE: 6
THE FOLLOWING ITEMS SHALL BE DESIGNED FOR LOADS INDICATED IN THE DRAWINGS AND IN THE LOCAL BUILDING CODE:
a. CURTAINWALL SYSTEMS
b. HANDRAILS AND GUARDRAILS
c. LADDERS
d. CANOPIES
SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND SUBMITTED FOR REVIEW.

NOTE: 7
ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER, AND SHALL BE MARKED "REVIEWED" OR "REVIEWED AS NOTED."

NOTE: 8
THE BUILDING FRAME IS NOT SELF-SUPPORTING UNTIL THE ENTIRE STRUCTURAL SYSTEM HAS BEEN INSTALLED. TEMPORARY BRACING MUST BE PROVIDED BY THE CONTRACTOR TO SUPPORT THE FRAME UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.

NOTE: 9
LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE. A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOADS FOR 28 DAYS, UNLESS THE DESIGN STRENGTH IS ACHIEVED EARLIER BASED ON FIELD CURED CYLINDERS.

NOTE: 10
THE CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS. CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., AS PART OF THE CONTRACTOR'S WORK, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 11
ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 (EXCEPTIONS NOTED SHALL NOT BE PERMITTED) AND ALL LOCAL ORDINANCES. INSPECTIONS REQUIRED SHALL BE PER THE STATEMENT OF SPECIAL INSPECTIONS NOTED ON THIS SHEET. THE OWNER SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF HIS DESIGN SERVICE. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS.

NOTE: 12
THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE IN THE CONSTRUCTION OF WORK SIMILAR IN NATURE TO THIS PROJECT.

NOTE: 13
LEGAL USE OF DOCUMENTS
THE PLANS, SPECIFICATIONS AND OTHER INFORMATION CONTAINED IN THESE DRAWINGS (COLLECTIVELY THE "DRAWINGS") WERE PREPARED BY COLUMBIA ENGINEERING, INC. AND ARE INSTRUMENTS OF PROFESSIONAL SERVICES RENDERED AND DELIVERED PURSUANT TO THE TERMS AND CONDITIONS OF A WRITTEN AGREEMENT (THE "AGREEMENT") ONLY TO THE RECIPIENT NAMED THEREIN. ANY USE OF THE DRAWINGS BY ANY PARTY WHICH IS INCONSISTENT WITH THE TERMS AND CONDITIONS OF THE AGREEMENT IS EXPRESSLY PROHIBITED. COLUMBIA ENGINEERING, INC. EXPRESSLY RESERVES ITS COPYRIGHT AND ALL INTELLECTUAL PROPERTY AND OTHER RIGHTS IN THE DRAWINGS. NO PORTION OF THE DRAWINGS ARE TO BE REPRODUCED, CHANGED OR OTHERWISE USED IN ANY FORM OR MANNER WHATSOEVER WHICH IS INCONSISTENT WITH EITHER THE AGREEMENT OR THE PURPOSES FOR WHICH THEY WERE ORIGINALLY PREPARED, NOR ARE THEY TO BE DEEMED ASSIGNED TO ANY PERSON OR ENTITY WITHOUT OBTAINING THE EXPRESS PRIOR WRITTEN PERMISSION AND CONSENT OF COLUMBIA ENGINEERING, INC. THE RECIPIENT OF THE DRAWINGS AGREES TO INDEMNIFY AND HOLD HARMLESS COLUMBIA ENGINEERING, INC., ITS EMPLOYEES, OFFICERS, DIRECTORS AND AGENTS, FROM AND AGAINST ANY AND ALL DAMAGES WHICH ARISE OUT OF OR IN CONNECTION WITH ANY VIOLATION OF THE FOREGOING.

DESIGN CODES:

INTERNATIONAL BUILDING CODE:
IBC 2018

INTERNATIONAL EXISTING BUILDING CODE:
IEBC 2018

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:
ACI 318-14

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES:
TMS 402/602-16

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS:
AISC 15TH EDITION 360-16

DESIGN LOADS:
IBC RISK CATEGORY 2

FLOOR LIVE LOADS:
1. SLAB ON GRADE ----- 100 PSF
2. FIRST FLOOR ---------- 100 PSF

ROOF LOADS:
LIVE LOAD = 30 PSF
GROUND SNOW LOAD, p_g = 25 PSF
FLAT ROOF SNOW LOAD, p_f = 18 PSF
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
THERMAL FACTOR, C_t = 1.0

WIND LOADS:
DESIGN WIND SPEED:
V_{ult} = 115 MPH (3 SECOND GUST)
V_{asd} = 93 MPH (3 SECOND GUST)

WIND EXPOSURE B
INTERNAL PRESSURE COEFFICIENT, GC_{pi} = +/-0.18

EFFECTIVE WIND AREA	COMPONENTS & CLADDING: ULTIMATE WIND PRESSURE				
	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
10 FT^2	-30.8 PSF 16.0 PSF	-40.7 PSF 16.0 PSF	-55.4 PSF 16.0 PSF	-21.0 PSF 19.4 PSF	-25.9 PSF 19.4 PSF
50 FT^2	-26.1 PSF 16.0 PSF	-34.6 PSF 16.0 PSF	-43.3 PSF 16.0 PSF	-19.0 PSF 17.3 PSF	-21.9 PSF 17.3 PSF
100 FT^2	-24.1 PSF 16.0 PSF	-32.0 PSF 16.0 PSF	-38.1 PSF 16.0 PSF	-18.1 PSF 16.5 PSF	-20.1 PSF 16.5 PSF
200 FT^2	-22.0 PSF 16.0 PSF	-29.4 PSF 16.0 PSF	-32.8 PSF 16.0 PSF	-17.2 PSF 16.0 PSF	-18.4 PSF 16.0 PSF
500 FT^2	-19.4 PSF 16.0 PSF	-25.9 PSF 16.0 PSF	-25.9 PSF 16.0 PSF	-16.1 PSF 16.0 PSF	-16.1 PSF 16.0 PSF

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
410.992.9970 Tel
410.992.0627 Fax
© Columbia Engineering Inc. 2022

STATE OF MARYLAND CHERYL ZARON 34693 PROFESSIONAL ENGINEER

USING AGENCY APPROVAL
Name | Date
Title
DGS APPROVAL
Project Manager | Date
Chief of PMM&D | Date

MARK | DATE | BY | DESCR
REVISIONS

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 34693, expiration date 07/08/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
GENERAL NOTES

SHEET
S-001

INSPECTION TABLES

STATEMENT OF SPECIAL INSPECTIONS:

NOTE 1:
INSPECTION OR TESTING SHALL BE PROVIDED FOR ALL MATERIAL, COMPONENTS AND WORK LISTED IN THE TABLES BELOW.

NOTE 2:
DEFINITIONS:
a. CONTINUOUS INSPECTION: INDICATES SPECIAL INSPECTOR SHALL BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK.
b. PERIODIC INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING OF ALL WORK INDICATED, BUT THAT SPECIAL INSPECTOR IS NOT REQUIRED TO BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK. PERIODIC INSPECTION DOES NOT MEAN RANDOM INSPECTION IS ALLOWED.
c. RANDOM INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING, AS NEEDED, TO INSURE PROPER PERFORMANCE OF THE TASK BY THE CONTRACTOR.

SOILS

INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

CONCRETE

INSPECTION TASK	TYPE OF INSPECTION
1. INSPECTION OF REINFORCING STEEL FOR SIZE, QUANTITY AND PLACEMENT.	PERIODIC
2. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC
3. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (FOLLOW MANUFACTURERS WRITTEN INSTALLATION REQUIREMENTS). a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS b. ALL OTHER CONDITIONS	a. CONTINUOUS b. PERIODIC
4. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. FOR LIGHTWEIGHT CONCRETE, PERFORM UNIT WEIGHT TESTS.	CONTINUOUS
6. INSPECTION OF CONCRETE PLACEMENT.	CONTINUOUS
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
8. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED AND FOR CONFORMANCE WITH FORMWORK DESIGN.	PERIODIC
10. MEASURE F (F) AND F (L) TOLERANCE FOR FLOORS.	PERIODIC

MASONRY

INSPECTION TASK	TYPE OF INSPECTION BY QUALITY ASSURANCE LEVEL	
	LEVEL 2	LEVEL 3
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC	PERIODIC
2. VERIFICATION OF f'_m a. PRIOR TO CONSTRUCTION b. DURING CONSTRUCTION EVERY 5,000 SQUARE FEET	a. PERIODIC b. N/A	a. PERIODIC b. PERIODIC
3. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS c. SAMPLE PANEL CONSTRUCTION	a. PERIODIC b. PERIODIC c. PERIODIC	a. PERIODIC b. PERIODIC c. CONTINUOUS
4. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS c. PROPORTIONS OF SITE-PREPARED GROUT	a. PERIODIC b. PERIODIC c. PERIODIC	a. CONTINUOUS b. CONTINUOUS c. PERIODIC
5. VERIFY COMPLIANCE DURING CONSTRUCTION: a. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION b. SIZE AND LOCATION OF STRUCTURAL MEMBERS c. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F) e. PLACEMENT OF GROUT f. SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO PROJECT SITE g. PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	a. PERIODIC b. PERIODIC c. PERIODIC d. PERIODIC e. CONTINUOUS f. PERIODIC g. N/A	a. PERIODIC b. PERIODIC c. CONTINUOUS d. PERIODIC e. CONTINUOUS f. PERIODIC g. PERIODIC
6. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	PERIODIC	CONTINUOUS
7. INSTALLATION OF POST INSTALLED ANCHORS.	CONTINUOUS	CONTINUOUS
8. INSTALLATION OF UL DESIGN ASSEMBLY U905 FOR INTERIOR LOAD BEARING WALLS	PERIODIC	PERIODIC

1

STEEL - PRIOR TO WELDING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	PERIODIC	PERIODIC
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PERIODIC	PERIODIC
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	RANDOM	RANDOM
4. WELDER IDENTIFICATION SYSTEM	RANDOM	RANDOM
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOF FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	RANDOM	PERIODIC
6. CONFIGURATION AND FINISH OF ACCESS HOLES	RANDOM	PERIODIC
7. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	RANDOM	RANDOM
8. CHECK WELDING EQUIPMENT	RANDOM	NONE

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - DURING WELDING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. USE OF QUALIFIED WELDERS	RANDOM	RANDOM
2. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	RANDOM	RANDOM
3. NO WELDING OVER CRACKED TACK WELDS	RANDOM	RANDOM
4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITH LIMITS • PRECIPITATION AND TEMPERATURE	RANDOM	RANDOM
5. WPS FOLLOWED FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYP/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM/MAXIMUM) • PROPER POSITION (F,V,H, OH)	RANDOM	CONTINUOUS
6. WPS FOLLOWED FOR SINGLE - PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYP/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM/MAXIMUM) • PROPER POSITION (F,V,H, OH)	RANDOM	RANDOM
7. WELDING TECHNIQUES FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	CONTINUOUS
8. WELDING TECHNIQUES FOR SINGLE-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - AFTER WELDING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. WELDS CLEANED	PERIODIC	PERIODIC
2. SIZE, LENGTH AND LOCATION OF WELDS	PERIODIC	PERIODIC
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD / BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	PERIODIC	PERIODIC
4. ULTRASONICALLY TEST FULL PENETRATION GROOVE WELDS	PERIODIC	PERIODIC
5. ARC STRIKES	PERIODIC	PERIODIC
6. K - AREA (1*)	PERIODIC	PERIODIC
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	PERIODIC	PERIODIC
8. REPAIR ACTIVITIES	PERIODIC	PERIODIC
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERIODIC	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR
(1*) - DENOTES WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN THREE INCHES OF THE WELD.

STEEL - PRIOR TO BOLTING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	RANDOM	PERIODIC
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	RANDOM	RANDOM
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	RANDOM	RANDOM
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	RANDOM	RANDOM
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	RANDOM	RANDOM
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	CONTINUOUS	RANDOM
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - DURING BOLTING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	PERIODIC	PERIODIC
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	RANDOM	RANDOM
3. PRETENSIONED AND SLIP-CRITICAL JOINTS INSTALLED USING ONE OF THE FOLLOWING METHODS: • DIRECT-TENSION-INDICATOR WASHER METHOD • TWIST-OFF TYPE TENSION CONTROL BOLT METHOD	PERIODIC	PERIODIC
4. FASTENERS COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	RANDOM	RANDOM
5. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	RANDOM	RANDOM

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - AFTER BOLTING

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERIODIC	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL - OTHER

INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. COMPLIANCE OF THE FABRICATED STEEL WITH THE SHOP DRAWINGS	PERIODIC	NONE
2. SETTING OF ANCHOR BOLTS, BEARING PLATES AND EMBEDDED ITEMS PRIOR TO PLACEMENT OF CONCRETE	RANDOM	PERIODIC
3. STRUCTURAL MEMBERS FOR PLUMBNESS, ELEVATION AND ALIGNMENT	RANDOM	PERIODIC
4. COMPLIANCE OF THE ERECTED STEEL FRAME WITH ERECTION DRAWINGS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	PERIODIC	NONE
5. COMPLIANCE OF THE ERECTED STEEL FRAME WITH CONTRACT DOCUMENTS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	NONE	PERIODIC

NOTES:
QC - DENOTES QUALITY CONTROL PERSONNEL
SI - DENOTES SPECIAL INSPECTOR

STEEL DECK

INSPECTION TASK	TYPE OF INSPECTION
1. MATERIAL VERIFICATION: a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. b. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC
2. VERIFY WELDING CONSUMABLES AND FASTENERS TO BE USED.	PERIODIC
3. VERIFY DECK ALIGNMENT AND SUPPORT	PERIODIC
4. VERIFY FLOOR AND ROOF DECK ATTACHMENT: a. WELDS TO SUPPORTING MEMBERS b. SIDE LAP SCREWS AND WELDS	PERIODIC
5. VERIFY TOUCH-UP GALVANIZATION APPLIED TO WELDS.	PERIODIC

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
410.992.9970 Tel
410.992.0627 Fax
© Columbia Engineering Inc. 2022

USING AGENCY APPROVAL
Name | Date
Title
DGS APPROVAL
Project Manager | Date
Chief of PMM&D | Date

PERMIT REVISIONS
02.14.2023
MARK | DATE | BY | DESCR
REVISIONS

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 34693, expiration date 07/08/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND CHERYL ZARON 34693 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
INSPECTION TABLES

SHEET
S-002

CEI No. 21-154 / REVIT 2021

BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt
2/13/2023 2:28:50 PM

SPREAD FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCEMENT
F4080	4'-0"x8'-0"	1'-0"	4-#7 LONG WAY BOTTOM, 9-#7 SHORT WAY BOTTOM WITH HOOKED ENDS

WALL FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCEMENT
WF20	2'-0" CONTINUOUS	1'-0"	2-#5 CONTINUOUS BOTTOM

COLUMN SCHEDULE

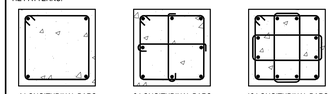
MARK	SIZE	BASE PLATE	ANCHOR BOLTS
C1	HSS 9"x9"x3/8"	15"x15"x3/4"	(4) 3/4" DIAMETER ASTM F1554, SEE A / S-401
C2	(2) HSS 8"X4"x3/8"	16"x14"x3/4"	(4) 3/4" DIAMETER ASTM F1554, SEE B / S-401

NOTES:
1. ALL HSS COLUMNS SHALL RECEIVE A 5/8" THICK CAP PLATE UNLESS NOTED OTHERWISE.

CONCRETE PIER SCHEDULE

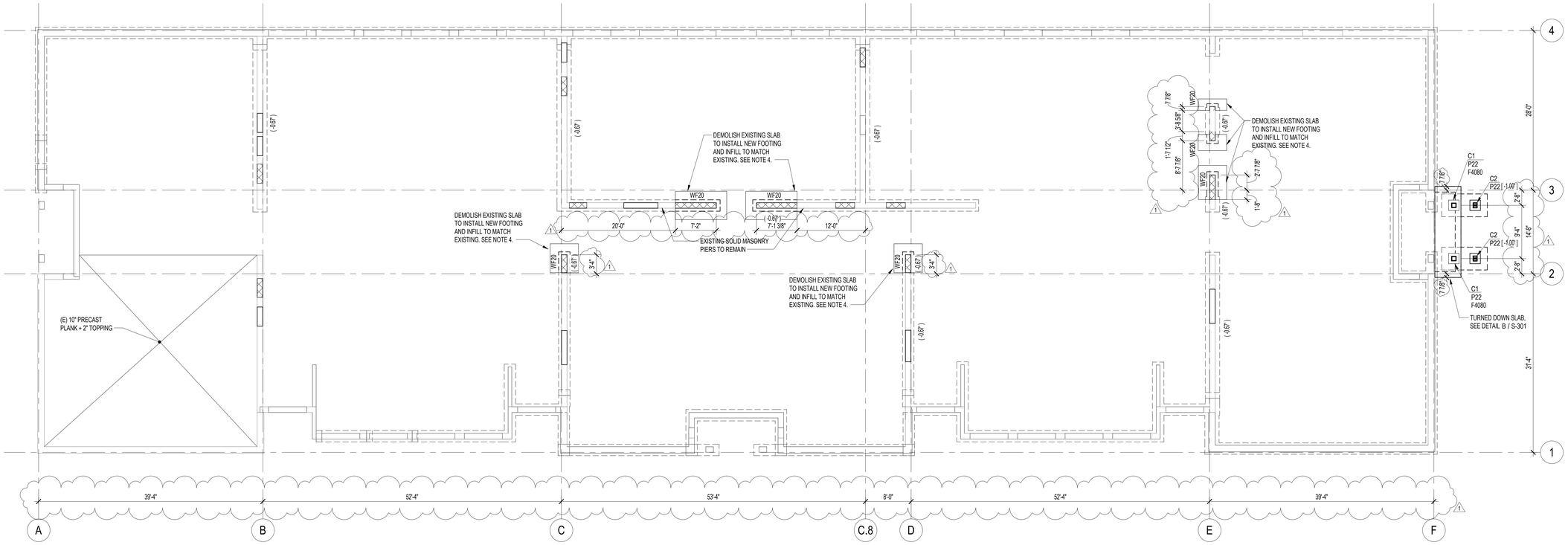
MARK	SIZE	VERTICAL REINFORCEMENT	REMARKS
P22	22"x22"	8-#5	

TIE PATTERNS:



4 LONGITUDINAL BARS | 8 LONGITUDINAL BARS | 12 LONGITUDINAL BARS

NOTES:
1. ALTERNATE THE 180 DEGREE HOOKED END OF ALL SINGLE-LEG TIES.
2. ALL TIES SHALL BE PLACED WITH 1 1/2" CONCRETE COVER UNLESS NOTED OTHERWISE.



FOUNDATION AND SLAB ON GRADE - NEW WORK

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

FOUNDATION AND SLAB ON GRADE NOTES:
1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN BOLD.
3. EXISTING TOP OF SLAB ON GRADE ELEVATION IS AT ELEVATION 197.60' WHICH CORRESPONDS TO DATUM 0'-0".
4. EXISTING SLAB ON GRADE IS 4" THICK CONCRETE REINFORCED WITH 6"x6", W1.4xW1.4 W.W.F.
5. TOP OF CONCRETE PIER ELEVATIONS SHALL BE 8" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE THUS [....] ON PLAN.
6. TOP OF FOOTINGS SHALL BE 2'-0" BELOW DATUM ELEVATION UNLESS NOTED OTHERWISE THUS (....) ON PLAN. FEILD VERIFY EXISTING FOOTING ELEVATIONS. PLACE BOTTOM OF NEW FOOTINGS TO MATCH ADJACENT EXISTING FOOTINGS
7. EXISTING FOUNDATIONS AND TOP OF FOOTING ELEVATIONS SHOWN ARE BASED ON EXISTING STRUCTURAL DRAWINGS AND MAY DIFFER FROM WHAT IS FOUND DURING CONSTRUCTION. IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT THAN WHAT IS SHOWN HERE, CONTRACTOR IS TO REPORT DISCREPANCIES TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
8. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR NEW UNDERSLAB PIPING. REFER TO TYPICAL DETAIL A / S-301 FOR SLAB REMOVAL AND REPAIR. LOCATIONS NOT SHOWN ON STRUCTURAL PLANS.
9. INFILL/PATCH EXISTING CONCRETE SLABS WHERE FLOORING WAS REMOVED (UP TO 2.5" DEEP) WITH SIKA LEVEL-225 OR EQUIVALENT. INFILL CONCRETE AREAS UP TO 4" DEEP WITH SIKACRETE-211 OR EQUIVALENT AND PLACE 6"x6",W2.1xW2.1 W.W.F AT MID DEPTH. FOLLOW ALL MANUFACTURER'S SPECIFICATIONS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. NEW SLAB ON GRADE SHALL BE 5" THICK NORMAL WEIGHT CONCRETE (145 PCF, f'c=4000 PSI) REINFORCED WITH 6"x6", W2.1 x W2.1 W.W.F. ON 15 MIL VAPOR BARRIER OVER 4" LAYER OF WASHED GRAVEL.
11. ALL DIMENSIONS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane 410.992.9070 Tel
Suite 150 410.992.8627 Fax
Columbia, MD 21045

© Columbia Engineering Inc. 2022

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM/A/ED Date

PERMIT REVISIONS

MARK	DATE	BY	DESCR
REVISIONS	02.14.2023		

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 34693, expiration date 01/06/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND CHERYL TADDEO 34693 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING FOUNDATION AND SLAB ON GRADE PLAN

SHEET
S-101

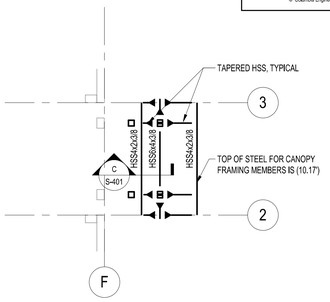
CEI No. 21-154 / REVIT 2021

BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt
2/13/2023 2:28:50 PM

LINTEL SCHEDULE

MARK	SIZE	BEARING PLATE	REMARKS
L1	W8x21 WITH BOTTOM PLATE	6"x6"x1/2"	

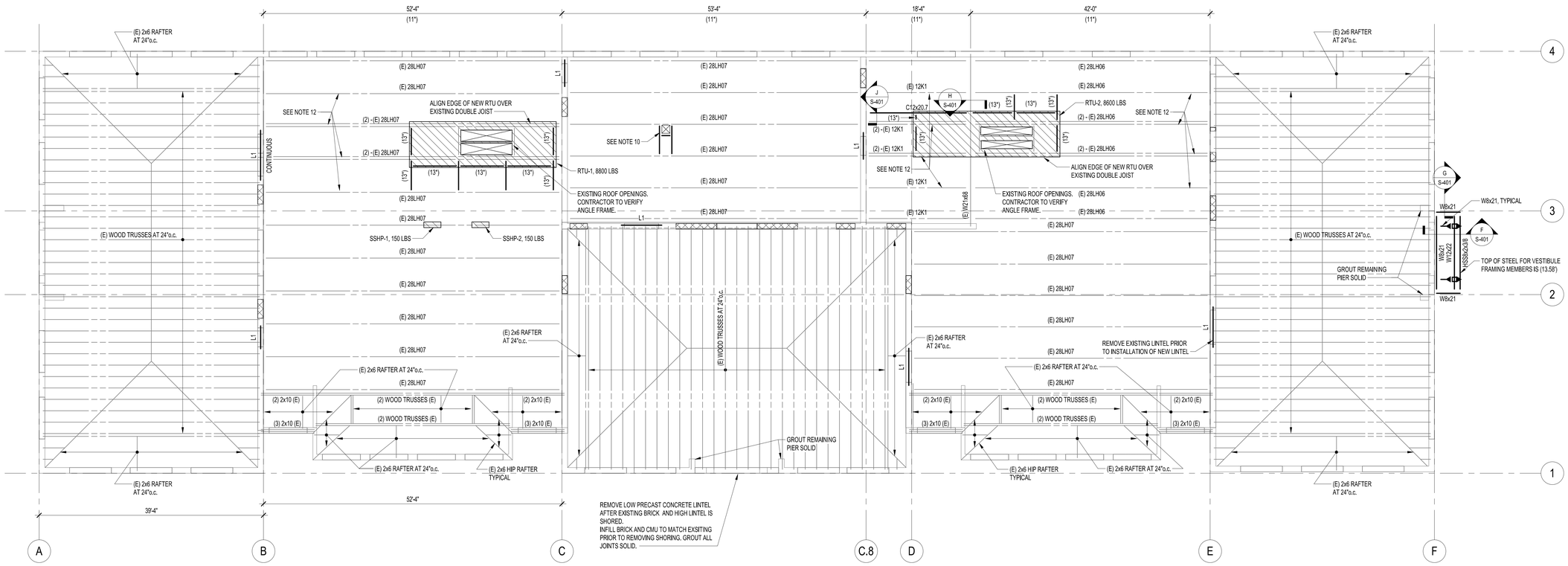
NOTES:
1. REFER TO MASONRY NOTES ON SHEET S-001 FOR LINTELS NOT REFERENCED ON PLANS.
2. INSTALL LOOSE ANGLE LINTELS OVER ALL MECHANICAL DUCT OPENINGS THROUGH MASONRY WALLS. REFER TO MASONRY NOTES ON SHEET S-001 FOR SIZE.
3. BEARING PLATE SIZE APPLIES TO EACH END UNLESS NOTED OTHERWISE.
4. REFER TO SHEET S-301 FOR LINTEL CONFIGURATIONS AND BEAM BEARING DETAILS.
5. FIRST COURSE OF CMU ABOVE STEEL BEAM SHALL BE GROUTED SOLID.
6. LINTELS WITH HUNG PLATE SHALL HAVE BOTTOM OF BEAM LOCATED 8" ABOVE OPENING UNLESS NOTED OTHERWISE.
7. LINTELS WITH CLEAR SPANS GREATER THAN 6'-4" SHALL HAVE 1/2" DIAMETER x 4" LONG HEADED STUDS WELDED TO THE TOP FLANGE AT 24"o.c.
8. LINTELS SHALL BE POSITIONED AT THE CENTERLINE OF THE CMU WALL UNLESS NOTED OTHERWISE.



ROOF FRAMING PLAN - VESTIBULE CANOPY

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

ROOF FRAMING PLAN NOTES:
1. SEE NOTES ON MAIN PLAN BELOW.



ROOF FRAMING PLAN - NEW WORK

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

ROOF FRAMING PLAN NOTES:
1. (E) DENOTES EXISTING.
2. NEW WORK SHOWN BOLD.
3. EXISTING ROOF STRUCTURE IS AS NOTED BELOW:
   a. FLAT ROOF AREAS - 22 GAGE, 1 1/2" METAL ROOF DECK SUPPORTED BY LONG SPAN BAR JOISTS, STRUCTURAL STEEL, AND BEARING WALLS.
   b. SLOPED ROOF AREAS - 1/2" THICK (MINIMUM) PLYWOOD, 24/16 SPAN RATED FOR EXTERIOR EXPOSURE SUPPORTED BY WOOD TRUSSES, STRUCTURAL STEEL AND WOOD, AND BEARING WALLS.
4. ▶—— DENOTES MOMENT CONNECTION.
5. EXISTING FRAMING SHOWN IS BASED ON EXISTING STRUCTURAL DRAWINGS AND MAY DIFFER FROM WHAT IS FOUND DURING CONSTRUCTION. IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT THAN WHAT IS SHOWN HERE, CONTRACTOR IS TO REPORT TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF DISCREPENCIES PRIOR TO COMMENCING WORK.
6. TOP OF STEEL (UNDERSIDE OF METAL DECK) ELEVATION IS NOTED ON PLAN AS (...). MEASURED FROM DATUM ELEVATION (0.00').
7. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF MASONRY WALL REMOVAL AND INFILL.
8. INSTALL TEMPORARY SHORING AS REQUIRED AT NEW OPENINGS IN EXISTING MASONRY WALLS. TEMPORARY SHORING SYSTEM AND BRACING OF EXISTING STRUCTURE REQUIRED DUE TO SHORING SYSTEMS SHALL BE DESIGNED BY CONTRACTOR, PROVIDE SIGNED AND SEALED COMPUTATIONS AND DRAWINGS FOR REVIEW.
9. NEW ROOF AT VESTIBULE SHALL BE 1 1/2", 20 GAGE , TYPE "B" GALVANIZED METAIL DECK. ATTACH DECK TO SUPPORTING ROOF STRUCTURE WITH 3/4" PUDDLE WELDS, 36/6 CONNECTION PATTERN AND #10 SIDELAP SCREWS AT 36" o.c.
10. PROVIDE ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0" PER TYPICAL ROOF OPENING DETAIL. DO NOT CUT EXISTING JOISTS OR BEAMS TO CREATE NEW OPENINGS.
11. (11") DENOTES DIMENSION THAT MUST BE FIELD VERIFIED PRIOR TO ORDERING STEEL
12. CONTRACTOR TO CONFIRM LOCATION OF EXISTING STEEL JOISTS PRIOR TO PREPARING STEEL SHOP DRAWINGS. CONTACT CEI IF LOCATIONS ARE DIFFERENT FROM SHOWN
13. (13") DENOTES 6"x4"x3/8" ANGLE (LLV) BELOW NEW RTU CURB. PROVIDE BLOCKING AS REQUIRED BETWEEN UNIT AND SUPPORTING STEEL. SUPPORT AT EXISTING JOISTS PER TYPICAL DETAIL L / S-302. PROVIDE JOISTS STRUCTS PER TYPICAL DETAIL H / S-302 .
14. ▨ DENOTES CMU INFILL

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 190
Columbia, MD 21045
410.992.9070 Tel
410.992.8027 Fax

© Columbia Engineering Inc. 2022

STATE OF MARYLAND — CHRISTOPHER J. ZIMMER — 34693 — PROFESSIONAL ENGINEER

USING AGENCY APPROVAL
Name | Date
Title
DGS APPROVAL
Project Manager | Date
Chief of FM/MED | Date

MARK	DATE	BY	DESCR

REVISIONS

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: 34693, expiration date 01/06/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

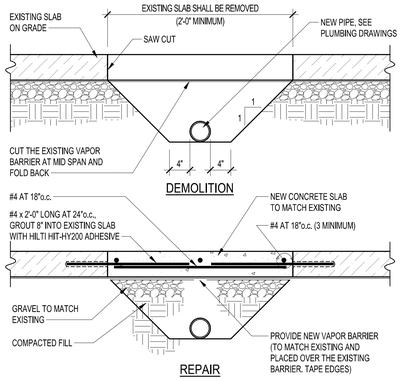
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ROOF FRAMING PLAN

SHEET
S-102

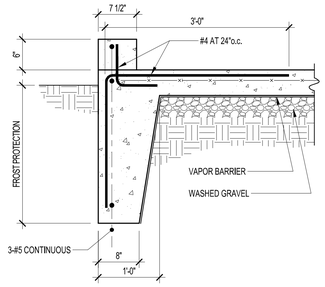
CEI No. 21-154 | REVIT 2021

BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt
12/6/2022 1:33:34 PM



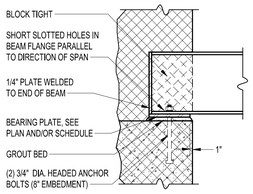
NEW PIPE UNDER SLAB

A S-301 TYPICAL DETAIL
NOT TO SCALE



TURNED DOWN SLAB

B S-301 TYPICAL DETAIL
NOT TO SCALE

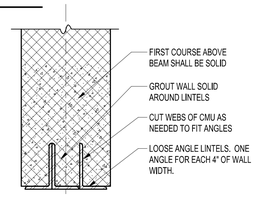


BEAM SPANNING PARALLEL TO WALL
(LINTEL BEARING)

NOTES:
1.) BEAMS SHALL BEAR FULL LENGTH ON BEARING PLATE.
2.) DETAIL SIMILAR FOR CHANNELS AND TUBE SHAPES.

BEAM BEARING ON MASONRY WALL

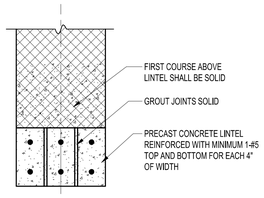
E S-301 TYPICAL DETAIL
NOT TO SCALE



LOOSE ANGLE LINTELS

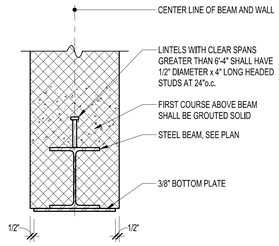
NOTES:
1. LOOSE ANGLES LINTELS SHALL BE INSTALLED OVER OPENINGS IIN THE FOLLOWING LOCATIONS UNLESS NOTED OTHERWISE:
   - EXTERIOR WALLS
   - INTERIOR BEARING WALLS
2. LOOSE LINTELS FOR OPENINGS IN MASONRY BEARING WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:
   0'-0" TO 3'-0"....3 1/2 "x3 1/2"x5/16" ANGLE
   3'-1" TO 5'-0"....4"x3 1/2"x5/16" ANGLE
   5'-1" TO 6'-0"....5"x3 1/2"x3/8" ANGLE
   6'-1" TO 8'-0"....6"x3 1/2"x3/8" ANGLE
3. ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.

F S-301 TYPICAL DETAIL
NOT TO SCALE



PRECAST LINTELS

NOTES:
1. PRECAST LINTELS SHALL BE INSTALLED OVER OPENINGS IN ALL INTERIOR NON-BEARING PARTITIONS UNLESS NOTED OTHERWISE.
2. PRECAST LINTELS SHALL NOT BE INSTALLED ABOVE OPENINGS WIDER THAN 10'-0" WITHOUT THE CONSENT OF THE ENGINEER OF RECORD.

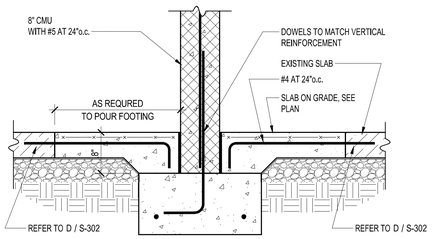


BEAM WITH BOTTOM PLATE

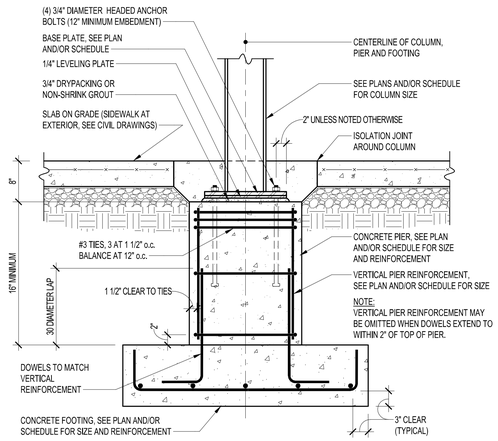
NOTES:
1. BEAMS DEEPER THAN 8" SHALL HAVE ADJUSTABLE MASONRY ANCHORS BOTH SIDES AT 16"o.c. HORIZONTAL.
2. BOTTOM PLATE SHALL STOP 1/2" SHORT OF OPENING AT EACH END.

STEEL BEAM LINTELS

G S-301 TYPICAL DETAIL
NOT TO SCALE

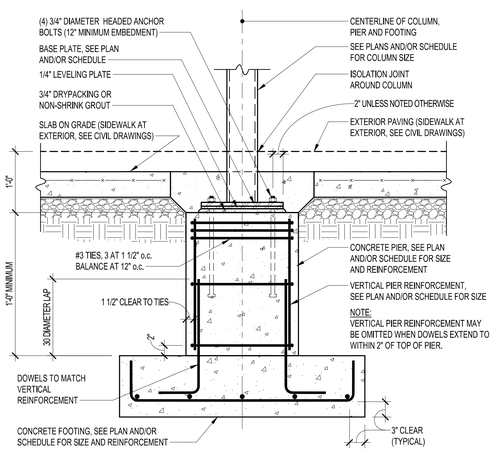


J S-301 TYPICAL DETAIL
NOT TO SCALE



INTERIOR COLUMN, FOOTING AND PIER

K S-301 TYPICAL DETAIL
SCALE: 1" = 1'-0"



EXTERIOR COLUMN, FOOTING AND PIER

L S-301 TYPICAL DETAIL
SCALE: 1" = 1'-0"

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
410.992.9070 Tel
410.992.8027 Fax

© Columbia Engineering Inc. 2022

STATE OF MARYLAND CERTIFICATE OF PROFESSIONAL ENGINEER 34693

USING AGENCY APPROVAL
Name | Date
Title: DGS APPROVAL
Project Manager | Date
Chief of ENGINEERING | Date

MARK	DATE	BY	DESCR

REVISIONS

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: 34693, expiration date 01/06/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

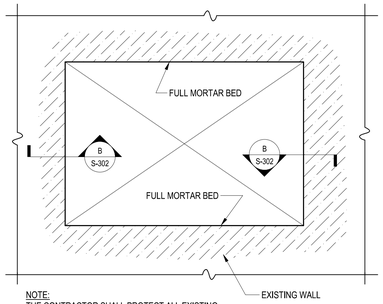
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
TYPICAL DETAILS

SHEET
S-301

CEI No. 21-154 / REVIT 2021

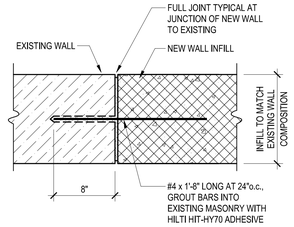
BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt
12/6/2022 1:33:35 PM



NOTE:
THE CONTRACTOR SHALL PROTECT ALL EXISTING EQUIPMENT, PIPING, ETC. DURING MASONRY WORK.

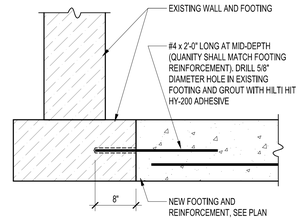
MASONRY WALL INFILL

A S-302 TYPICAL DETAIL
NOT TO SCALE



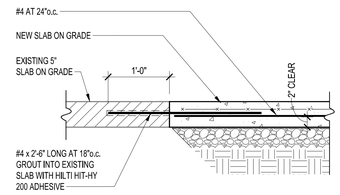
NOTES:
1. SECTION APPLIES AT SIDES OF OPENING TO BE INFILLED. ALTERNATIVELY, THE MASONRY MAY BE TOOTHED INTO THE EXISTING MASONRY PER THE MASONRY INFILL GENERAL NOTES ON S0.01.
2. PROVIDE FULL MORTAR JOINT BETWEEN EXISTING AND NEW WALL INFILL. TYPICAL AT SIDES, TOP AND BOTTOM.
3. IF REQUIRED, PROVIDE VERTICAL REINFORCEMENT PER A/S3.2 IF NEW LINTEL BEARS ON INFILL. PROVIDE #5 BARS AT 72" MINIMUM.

B S-302 TYPICAL DETAIL
NOT TO SCALE



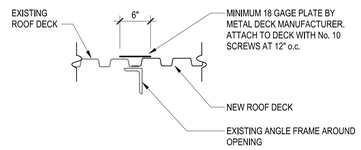
FOOTING AT EXISTING WALL

C S-302 TYPICAL DETAIL
NOT TO SCALE



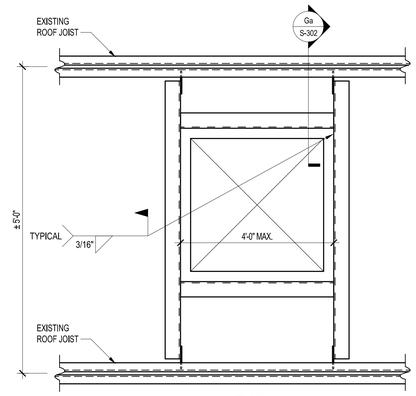
CONNECTION OF NEW SLAB TO EXISTING

D S-302 TYPICAL DETAIL
NOT TO SCALE



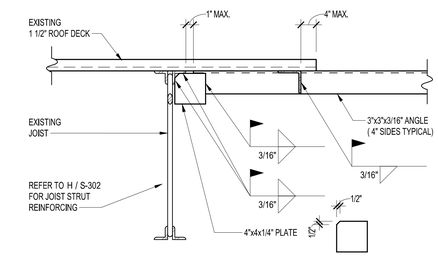
EXISTING ROOF INFILL

F S-302 TYPICAL DETAIL
NOT TO SCALE



PLAN

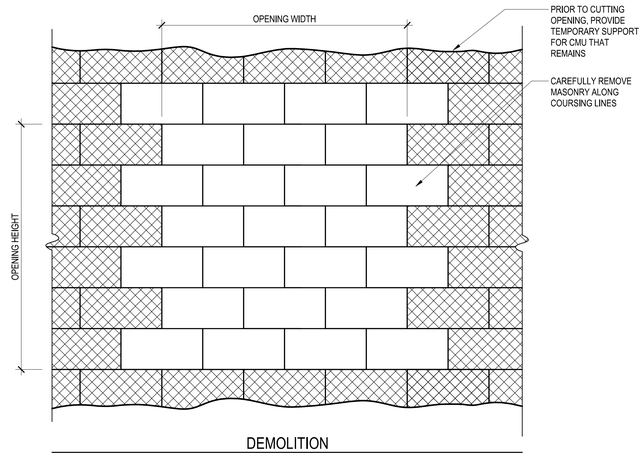
NOTES:
1. ACCURATELY LOCATE NEW OPENING ABOVE AND BELOW ROOF. INFORM ARCHITECT OF ANY OBSTRUCTIONS.
2. REMOVE SECTION OF ROOFING AS NEEDED. COORDINATE WITH MECHANICAL DRAWINGS.
3. PROVIDE TEMPORARY WATER TIGHT ENCLOSURE AS NEEDED.
4. CUT ROOF DECK.
5. INSTALL ANGLE FRAME.
6. PROVIDE JOIST REINFORCING PER C/S-1.
7. REPAIR ROOFING AS INDICATION IN ARCHITECTURAL DRAWINGS.
8. DETAIL APPLIES TO OPENINGS BETWEEN 10" AND 4'-0".
9. OPENINGS SMALLER THAN 10" ARE TO BE DRILLED AND REINFORCED WITH A 16 GAGE GALVANIZED PLATE 8" LARGER THAN THE OPENING. REINFORCING PLATE TO BE SCREWED TO FLUTES ADJACENT TO THE OPENING WITH #12 SCREWS AT 6"o.c.



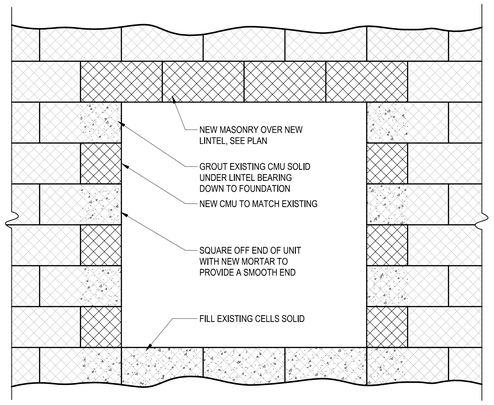
SECTION Ea/S-302

NEW OPENING AT EXISTING ROOF

G S-302 TYPICAL DETAIL
NOT TO SCALE



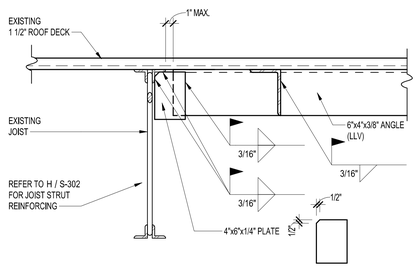
DEMOLITION



NEW WORK

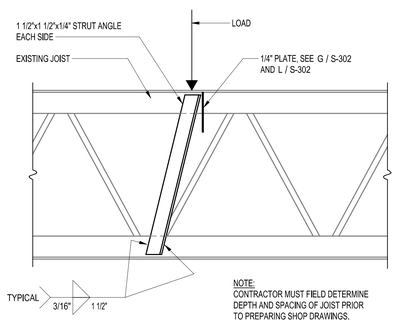
OPENING THROUGH EXISTING WALL

E S-302 TYPICAL DETAIL
NOT TO SCALE



SUPPORT BELOW NEW RTU

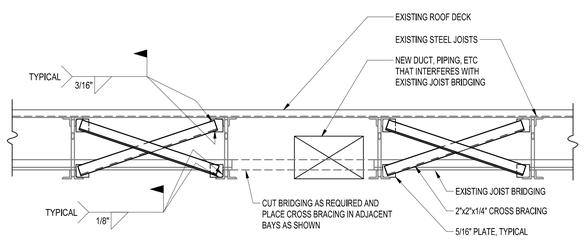
L S-302 TYPICAL DETAIL
NOT TO SCALE



NOTE:
CONTRACTOR MUST FIELD DETERMINE DEPTH AND SPACING OF JOIST PRIOR TO PREPARING SHOP DRAWINGS.

JOIST LOAD STRUT DETAIL

H S-302 TYPICAL DETAIL
NOT TO SCALE



NEW EQUIPMENT AT EXISTING JOIST BRIDGING

J S-302 TYPICAL DETAIL
NOT TO SCALE

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 150
Columbia, MD 21045
410.992.9070 Tel
410.992.8027 Fax

© Columbia Engineering Inc. 2022

STATE OF MARYLAND CARL A. ZIMMER 34693 PROFESSIONAL ENGINEER

USING AGENCY APPROVAL
Name | Date
Title | Date
DGS APPROVAL
Project Manager | Date
Chief of PM/MED

MARK	DATE	BY	DESCR
REVISIONS

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 34693, expiration date 01/06/2023.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	
DRAWN	
CHECKED	

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

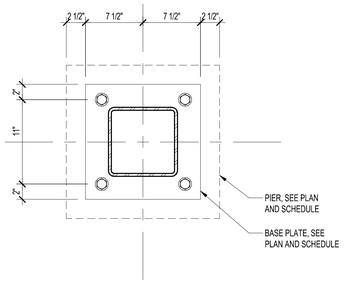
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
TYPICAL DETAILS

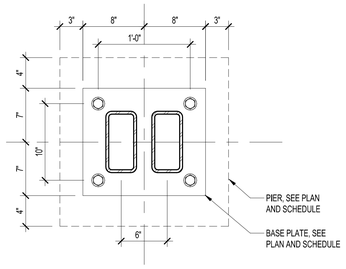
SHEET
S-302

CEI No. 21-154 / REVIT 2021

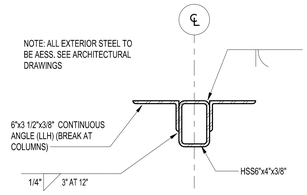
12/6/2022 1:33:35 PM BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt



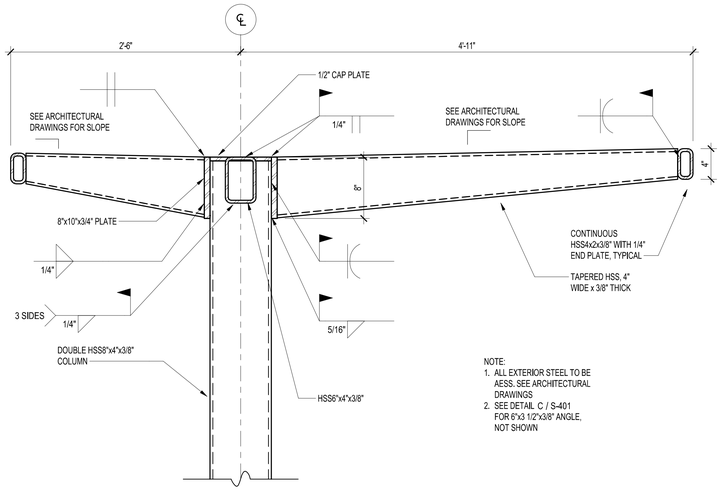
A S-401 SECTION
SCALE: 1 1/2" = 1'-0"



B S-401 SECTION
SCALE: 1 1/2" = 1'-0"

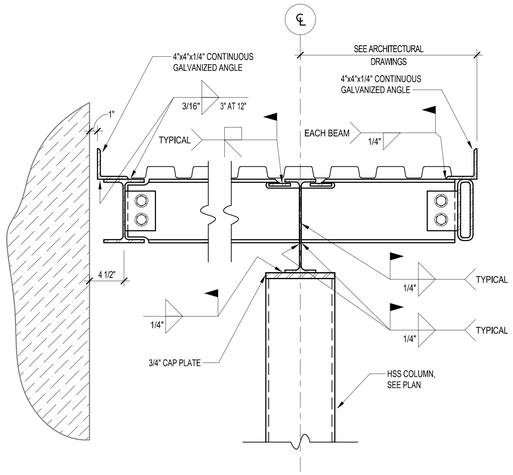


C S-401 SECTION
SCALE: 1 1/2" = 1'-0"

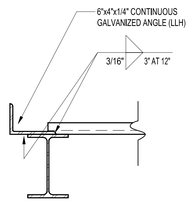


NOTE:
1. ALL EXTERIOR STEEL TO BE AESS, SEE ARCHITECTURAL DRAWINGS
2. SEE DETAIL C / S-401 FOR 6"x3 1/2"x3/8" ANGLE, NOT SHOWN

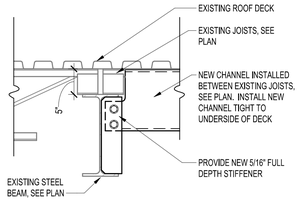
E S-401 SECTION
SCALE: 1 1/2" = 1'-0"



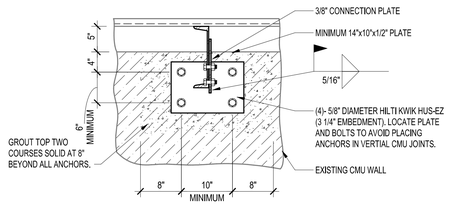
F S-401 SECTION
SCALE: 1 1/2" = 1'-0"



G S-401 SECTION
SCALE: 1 1/2" = 1'-0"



H S-401 SECTION
SCALE: 1" = 1'-0"



J S-401 SECTION
SCALE: 1" = 1'-0"

COLUMBIA ENGINEERING CEI INC
6210 Old Dobbin Lane
Suite 190
Columbia, MD 21045
410.992.9070 Tel
410.992.8027 Fax

© Columbia Engineering Inc. 2022

STATE OF MARYLAND CHRIS T. JOHNSON 34693 PROFESSIONAL ENGINEER

USING AGENCY APPROVAL
Name | Date
Title: DGS APPROVAL
Project Manager | Date
Chief of PM&AD | Date

MARK	DATE	BY	DESCR
REVISIONS			

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 34693, expiration date 01/06/2023.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
SECTIONS

SHEET
S-401

CEI No. 21-154 | REVIT 2021

12/6/2022 1:33:36 PM BIM 360://21248-00 CSM Health Technology Building/21-154-STRUCTURAL-Central-R21.rvt

GENERAL DEMOLITION AND REPAIR NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START AND FABRICATION OF ANY WORK.
2. ALL EXISTING DIMENSIONS ARE APPROXIMATE (+/-), UNLESS NOTED OTHERWISE. PLAN DIMENSIONS FOR EXISTING CONDITIONS ARE TO FACE OF MASONRY OR FINISH FACE OF STUD PARTITION, UNLESS OTHERWISE NOTED. ALL DIMENSIONS TO BE FIELD VERIFIED.
3. DO NOT REMOVE, REPAIR, OR RELOCATE ANY EXISTING STRUCTURAL ELEMENT UNLESS SPECIFICALLY APPROVED BY OWNER, ARCHITECT AND ENGINEER.
4. ALL DEMOLITION WORK NOTED ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THE CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING NEW WORK FLOOR PLANS AND DETAILS.
5. WHERE CEILINGS ARE TO BE DEMOLISHED, THE CONTRACTOR IS TO DEMOLISH ALL ASSOCIATED WORK, INCLUDING LIGHTS, REGISTERS, ACCESS PANELS, ETC. UNLESS OTHERWISE NOTED.
6. PROVIDE ADEQUATE SUPPORT TO THE MECHANICAL, ELECTRICAL, AND OTHER BUILDING ELEMENTS WHICH ARE NOT PLANNED TO BE REMOVED BUT ARE ATTACHED TO ITEMS BEING REMOVED.
7. THOUGH EVERY EFFORT WAS MADE, DEMOLITION DRAWINGS CANNOT SHOW ALL CONDITIONS. CONTRACTOR TO CONSIDER NEW WORK REQUIRED BY ALL CONSTRUCTION DOCUMENTS BEFORE PROCEEDING WITH DEMOLITION. CONTRACTOR TO COORDINATE WITH OWNER, ARCHITECT AND ENGINEER PRIOR TO REMOVAL OF ELEMENTS FOUND TO BE IN CONFLICT WITH NEW WORK.
8. REFER TO CIVIL, LANDSCAPE, PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND AV DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION FOR THOSE TRADES. CONTRACTOR TO COORDINATE EXTENT OF FIRE ALARM SYSTEM DEVICES AND COMPONENTS TO BE DEMOLISHED WITH ENGINEERING DRAWINGS.
9. IF TEMPORARY SHUT DOWN OF MECHANICAL, ELECTRICAL, OR PLUMBING SYSTEMS IS REQUIRED, SYSTEMS SHALL BE RETURNED TO OPERATIONAL CONDITION AS SOON AS POSSIBLE AND PRIOR TO THE CONTRACTOR LEAVING THE SITE EACH DAY. COORDINATE ALL REQUESTED SHUT DOWNS WITH THE OWNER.
10. MAINTAIN INTEGRITY OF ALL FIRE AND/ OR/OR SMOKE RATED CONSTRUCTION, EXIT ACCESS PASSAGES, AND EXITS. ALL EXISTING FIRE PROTECTION EQUIPMENT SHALL REMAIN OPERATIONAL AND COMPLETE DURING CONSTRUCTION.
11. MOST LOOSE FURNITURE, EQUIPMENT, SUPPLIES AND PERSONAL BELONGINGS LOCATED IN SPACES TO BE RENOVATED SHALL BE REMOVED AND RELOCATED BY OWNER (NIC).
12. LOOSE FURNITURE AND EQUIPMENT LEFT IN SPACES TO BE RENOVATED SHALL BECOME PART OF THE DEMOLITION AND PART OF THE CONTRACTOR'S RESPONSIBILITY.
13. ITEMS IDENTIFIED TO BE SALVAGED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR UNTIL NEEDED. ITEMS OWNER CHOOSES TO RETAIN SHALL BE RELOCATED FROM THE STORAGE AREA BY OWNER (NIC).
14. AT AREAS WHERE EXISTING STOREFRONT, WINDOW WALLS OR EXTERIOR DOORS ARE REMOVED, CONTRACTOR TO SECURE AND PROTECT OPENINGS WITH TEMPORARY PLYWOOD PARTITIONS AND PLASTIC SHEETING UNTIL NEW WORK IS COMPETED
15. MASONRY WORK IS ANTICIPATED FOR THIS PROJECT AS INDICATED ON DRAWINGS. IF OTHER MASONRY CONDITIONS ARE ENCOUNTERED, CONTACT OWNER AND ARCHITECT BEFORE PROCEEDING WITH WORK.
16. REMOVAL OF FLOORING IS ANTICIPATED FOR THIS PROJECT. PREPARE SLAB FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS IN CONCRETE W/SECTION 03300 REQUIREMENTS FOR CONCRETE REPAIRS AS WELL AS SPEC SECTIONS FOR APPLIED FINISHES.
17. ALL EXISTING WALLS, CEILINGS, FLOORS, SUBSTRATES AND OTHER SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK AND WHICH ARE MARRED OR DAMAGED BY DEMOLITION WORK OR ANY OTHER CONSTRUCTION WORK SHALL BE PATCHED AS REQUIRED TO MATCH THE ADJACENT SURFACE. SUCH SURFACES WHICH ARE COATED WITH EXISTING PAINT SHALL BE REPAINTED WITH SUFFICIENT COATS OF PAINT TO COMPLETELY HIDE THE PATCHING WORK.
18. THE DEMOLITION DWGS INDICATE MAJOR ITEMS TO BE DEMOLISHED. MISCELLANEOUS ABANDONED CONDUIT, WALL PENETRATIONS (IE, SCREWS, NAILS, MASONRY ANCHORS), WOOD BLKG AND OTHER VARIOUS ITEMS FASTENED TO EXISTING WALLS MAY NOT BE INDICATED ON THE DWGS, REMOVE SUCH ITEMS THAT ARE NOT USED IN, OR CONCEALED BY, NEW WORK, PATCH AND REPAIR DAMAGE TO THE WALLS WHERE SUCH ITEMS ARE REMOVED.
19. THE CONTRACTOR SHALL PROTECT ALL DATA EQUIPMENT AND PATCH PANELS FROM DAMAGE, CONSTRUCTION DUST, DEBRIS, AND WATER.
20. PREPARE WALLS FOR NEW FINISHES SCHEDULED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS FOR FINISH SUBSTRATE. FILL VOIDS AND CRACKS AS REQUIRED TO PROVED A SMOOTH AND MONOLITHIC SURFACE READY TO RECEIVE NEW FINISHES UPON COMPLETION OF DEMOLITION. PROVIDE MULTIPLE COATS (MIN. 2 COATS) OF PRIMER @ EXPOSED MASONRY/ CMU TO PROVIDE A MORE UNIFORM SURFACE W/ ADJACENT PAINTED SURFACES.
21. PREPARE EXISTING WALLS FOR INSTALLATION OF WALL MOUNTED CASEWORK, ELECTRICAL AND DATA RACEWAYS WHERE SCHEDULED. COORDINATE W/ NEW WORK REQUIREMENTS AND ELECTRICAL PLANS.
22. CONTRACTOR TO SUPPLY ALL MATERIALS REQUIRED TO PROTECT AL ELEMENTS TO REMAIN I ANY AREA OF THE BUILDING WHERE WORK IS CARRIED OUT AS PART OF THIS PROJECT. DAMAGED ELEMENTS ARE TO BE REPAIRED OR REPLACED IN KIND ON OWNER APPROVAL AT CONTRACTOR'S EXPENSE.
23. IF KNOWN OR SUSPECTED HAZARDOUS MATERIALS ARE DISCOVERED, IMMEDIATELY CEASE DEMOLITION AND NOTIFY OWNER. COORDINATE DEVELOPMENT OF A REMEDIATION PLAN WITH THE OWNER.
24. PROTECT PROJECT WORK SITE FROM BUILDING OCCUPANTS. OBTAIN OWNER'S PERMISSION TO ENTER OTHER SUITES AND OFFICES TO PERFORM THE WORK REQUIRED IN THESE DOCUMENTS. GIVE ADVANCED NOTICE AND ESTIMATED TIME TO OWNER FOR APPROVAL. COORDINATE AFTER-HOURS WORK IF NECESSARY. WORK HAT REQUIRES OR PRODUCES EXCESSIVE NOISE, SMELLS, OR VIBRATIONS SHALL BE CONSIDERED AFTER-HOURS WORK.
25. FIRE PROTECTION SYSTEMS ARE REQUIRED TO REMAIN OPERATIONAL DURING CONSTRUCTION. IF TEMPORARY SHUT DOWN IS NECESSARY, THE SYSTEM SHALL BE RETURNED TO OPERATIONAL CONDITION AS SOON AS POSSIBLE AND NO LATER THAN THE END OF EACH WORKING DAY PRIOR TO THE CONTRACTOR LEAVING THE JOB SITE. THE CONTRACTOR IS TO NOTIFY THE COLLEGE AND THE STATE FIRE MARSHAL PRIOR TO A NECESSARY SHUTDOWN. THE CONTRACTOR SHALL PROVIDE TEMPORARY UPRIGHT SPRINKLERS FOR EACH PHASE OF WORK THAT SHALL REMAIN IN PLACE UNTIL THE NEW SYSTEM IS INSTALLED, TESTED, AND APPROVED. A MANNED TEMPORARY FIRE WATCH WILL BE AN ACCEPTABLE ALTERNATIVE ONLY WHEN APPROVED BY THE OWNER.

USING AGENCY APPROVAL

Name Date

Title

DGS APPROVAL

Project Manager Date

Chief of PM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH D. MAYNARD
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

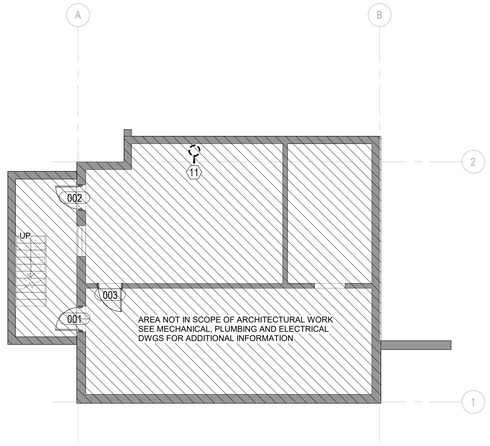
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
GENERAL DEMOLITION NOTES

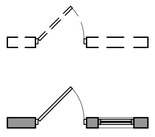
SHEET
AD-100

2/13/2023 4:28:44 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt



1 LOWER LEVEL - EXISTING
AD-101 SCALE: 1/8" = 1'-0"

NO ARCHITECTURAL DEMOLITION TO OCCUR AT THE LOWER LEVEL



DEMO/NEW LEGEND
SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES

SEE ALSO GENERAL DEMOLITION NOTES ON SHEET AD-100

1. DEMOLISH STUD AND GYP BD WALL WITH ASSOCIATED BRACE FRAMING (INCLUDING DOOR AND FRAME WITH PARTITION IF APPLICABLE). PATCH AND REPAIR WALL AND CONCRETE SLAB WHERE REMOVED. PREP AND CLEAN AREAS TO RECEIVE NEW WORK.

1A. DEMOLISH GYP BD WITH ASSOCIATED FINISH. PREP AND CLEAN AREAS TO RECEIVE NEW WORK.

2. SAWCUT AND REMOVE PORTION OF EXISTING CMU WALL FOR EXTENT AS INDICATED. LOCATE THE NEAREST MORTAR JOINT. COORDINATE WITH NEW WORK REQUIREMENTS AND STRUCTURAL DRAWINGS. PATCH AND REPAIR ADJACENT WALLS AND FLOORS TO REMAIN. PREPARE EXISTING SURFACES FOR NEW WORK. REF STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.

3. REMOVE STOREFRONT AND BRACE FRAMING COMPLETE. REMOVE EXISTING SEALANT PATCH AND REPAIR ADJACENT WALLS AND FLOORS TO REMAIN. PREPARE EXISTING SURFACES FOR NEW WORK.

4. DEMOLISH AND DISPOSE EXISTING ACCORDION WALL SYSTEM, INCLUDING WALL FRAME, CEILING TRACK AND HARDWARE. PATCH AND REPAIR ADJACENT WALLS AND FLOORS TO REMAIN. PREPARE EXISTING SURFACES FOR NEW WORK.

5. REMOVE EXISTING DOOR, FRAME AND HARDWARE COMPLETE. REMOVE DOOR SIDELITE AND FRAME WHERE IT APPLIES.

6. REMOVE EXISTING FLOORING DOWN TO CONCRETE SUBSTRATE AND MINIMIZE DAMAGE TO SLAB. PATCH AND REPAIR SLAB TO THE EXTENT REQUIRED, WITH AN APPROVED CEMENTITIOUS SELF-LEVELING UNDERLAYMENT OVER PRIMER. PREPARE EXISTING SLAB SUBSTRATE AND INSTALL ALL PRODUCTS IN STRICT ACCORDANCE WITH ALL WRITTEN MANUFACTURER'S RECOMMENDATIONS. PATCH AND REPAIR ADJACENT AREAS TO THE EXTENT REQUIRED.

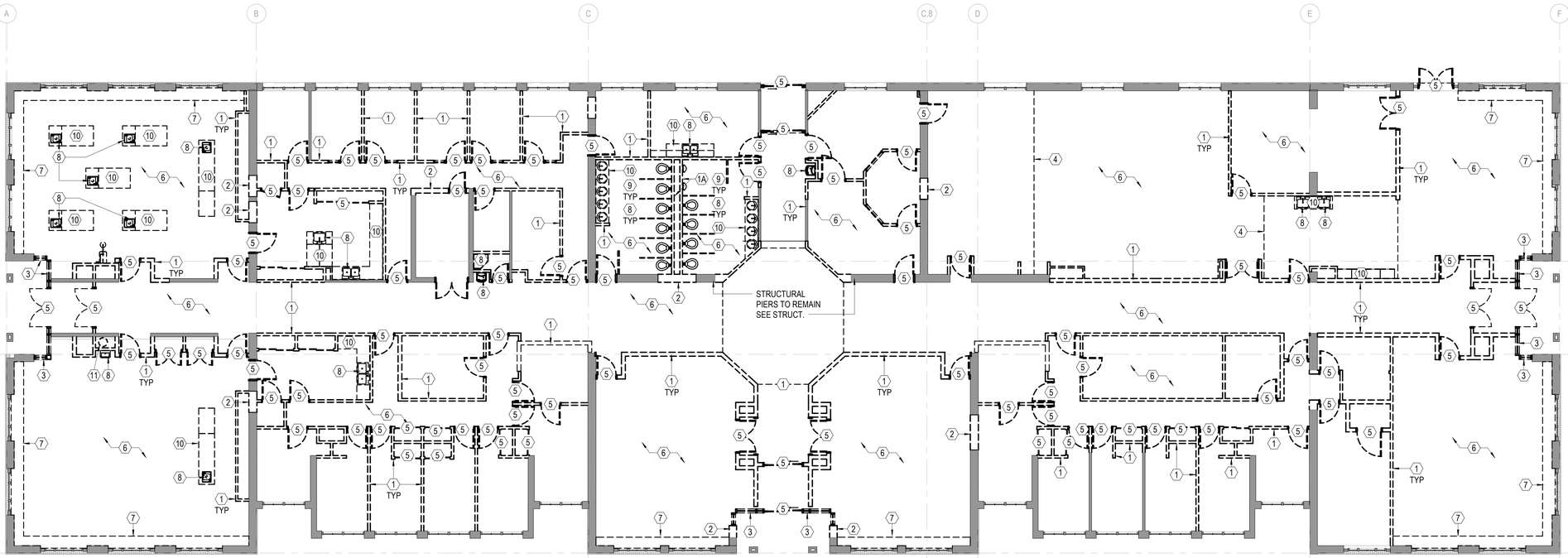
7. REMOVE CONVECTOR CABINET, INCLUDING PLUMBING AND MECHANICAL ACCESSORIES. REPAIR ADJACENT WALLS AND FLOORS TO REMAIN. PREPARE EXISTING SURFACES FOR NEW WORK. REFERENCE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL INFO.

8. REMOVE EXISTING PLUMBING FIXTURES AS INDICATED. REFERENCE PLUMBING DRAWINGS

9. REMOVE TOILET PARTITIONS, URINAL SCREENS AND ALL TOILET ACCESSORIES

10. REMOVE CASEWORK AND COUNTER COMPLETE

11. REMOVE EXISTING 16" I. D. METAL FLUE THAT EXTENDS FROM BOILER ROOM AT BASEMENT THROUGH ROOF. REMOVE ASSOCIATED BRACKETS. PATCH FLOOR, CEILINGS AND ROOF. REFERENCE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL INFO.



2 FIRST FLOOR - DEMOLITION
AD-101 SCALE: 1/8" = 1'-0"

TRUE NORTH

USING AGENCY APPROVAL
Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of P&A/AD: Date:

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH W. TABAT
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - DEMOLITION PLAN

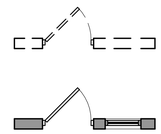
SHEET
AD-101

12/9/2022 12:26:37 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

DEMOLITION RCP KEY NOTES

SEE ALSO GENERAL DEMOLITION NOTES ON SHEET AD-100

1. REMOVE EXISTING SUSPENDED ACOUSTIC CEILING TILE AND CEILING GRID. REMOVE ALL CEILING DEVICES AND LIGHTING. COORDINATE WITH ALL TRADES BEFORE PROCEEDING WITH WORK. PATCH AND REPAIR ADJACENT AREAS AND PREPARE TO RECEIVE NEW WORK. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING GYP BD AND METAL FRAMING CEILING. REMOVE ALL CEILING DEVICES AND LIGHTING. COORDINATE WITH ALL TRADES BEFORE PROCEEDING WITH WORK. PATCH AND REPAIR ADJACENT AREAS AND PREPARE TO RECEIVE NEW WORK. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. UNINSTALL CEILING MOUNTED PROJECTOR AND PROJECTION SCREEN. TURN TO OWNER.

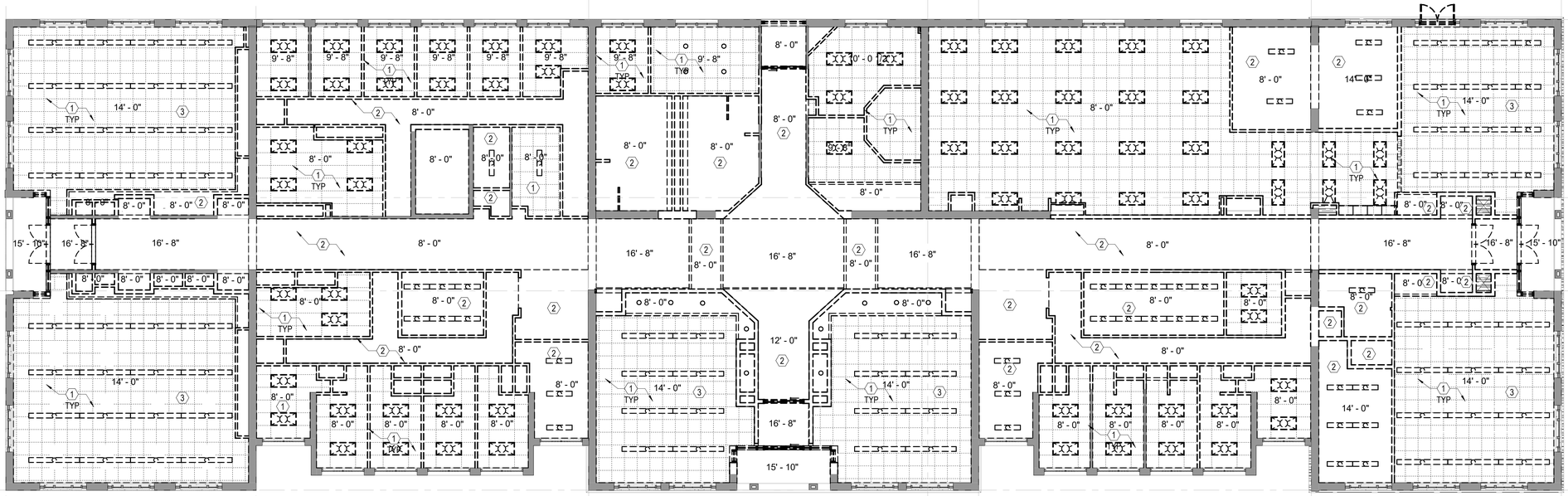


EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED

EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN

DEMO/NEW LEGEND

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



1 AD-102 FIRST FLOOR RCP

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

TRUE NORTH

USING AGENCY APPROVAL

Name: Date:

Title: DGS APPROVAL

Project Manager: Date:

Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH MCNEILL WARD No. 18837 ARCHITECT 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING FIRST FLOOR - DEMOLITION RCP

SHEET AD-102

BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt

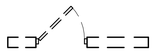
12/9/2022 12:26:39 PM

DEMOLITION ROOF KEY NOTES

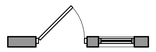
SEE ALSO GENERAL DEMOLITION NOTES ON SHEET AD-100

1. REMOVE EXISTING 16" I. D. METAL FLUE THAT EXTENDS FROM BOILER ROOM AT BASEMENT THROUGH ROOF. REMOVE ASSOCIATED BRACKETS. PATCH FLOOR, CEILINGS AND ROOF. REFERENCE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL INFO.

NOTES:
1. ROOF NOT IN SCOPE OF ARCHITECTURAL RENOVATION
2. SEE MEP DRAWINGS FOR SCOPE ON MEP ROOF TOP EQUIPMENT DEMOLITION



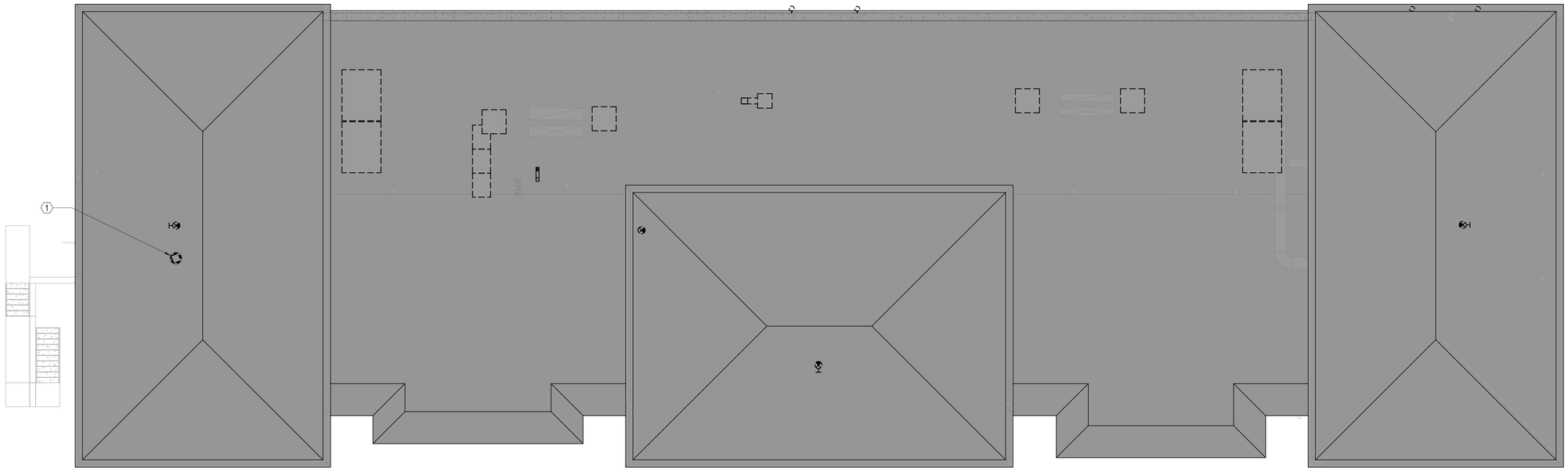
EXISTING WALL AND/OR DOOR TO BE DEMOLISHED OR REMOVED



EXISTING WALL, WINDOW, AND/OR DOOR TO REMAIN

DEMO/NEW LEGEND

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



1 ROOF DEMOLITION PLAN

AD-103 SCALE: 1/8" = 1'-0"

TRUE NORTH

USING AGENCY APPROVAL

Name: Date:

Title: DGS APPROVAL

Project Manager: Date:

Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED PROFESSIONAL ARCHITECT NO. 18837 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING ROOF - DEMOLITION PLAN

SHEET AD-103

12/9/2022 12:26:42 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

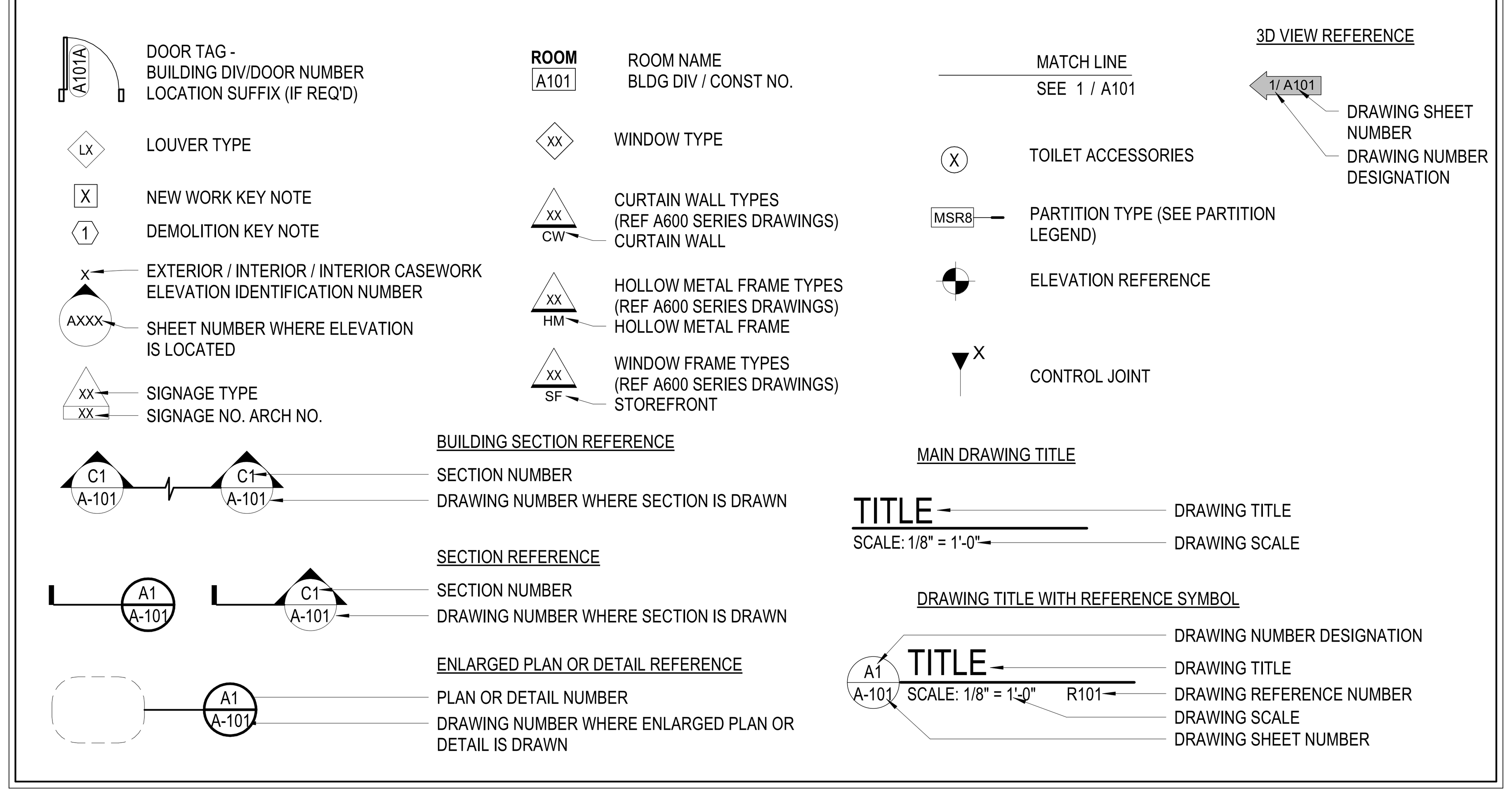
ABBREVIATIONS

#	NUMBER
&, +	AND
+/-	PLUS OR MINUS
@	AT
°	DEGREES
Ø	DIAMETER
Ω	ARC LENGTH
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABV	ABOVE
ACM	ASBESTOS CONTAINING MATERIAL
ACP	ACOUSTIC CEILING PANEL
ACT	ACOUSTIC CEILING TILE
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP, A	AMPERE
ANCH	ANCHOR, ANCHORAGE
ANOD	ANODIZED
AP	ACCESS POINT
APC	ARCHITECTURAL PRECAST CONCRETE
APPROX	APPROXIMATE
AR	ABUSE RESISTANT
ARCH	ARCHITECT, ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
ATTEN	ATTENUATION
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
BC	BOTTOM OF CURB
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BETW	BETWEEN
BIT	BITUMINOUS
BL	BLEACHER FINISH
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT, B	BOTTOM
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BTWN, B/W	BETWEEN
BUR	BUILT-UP ROOFING
BVL	BEVELED
C	CARPET
CAB	CABINET
CAP	CAPACITY
CB	CHALKBOARD
CC	CUBICAL CURTAIN
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CEM TOP	CEMENT TOPPING
CER	CERAMIC
CF	CUBIC FOOT
CFLSHG	COUNTER FLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CHAM	CHAMFER
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CK	CAULK, CAULKING
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CM	CENTIMETER, CENTIMETERS
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
COMM	COMMUNICATION
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT, CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CRS	COURSE. COURSES
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CU FT	CUBIC FEET
CU YD	CUBIC YARD
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWFP	CEMENTITIOUS WOOD FIBER PANELS
D	DEEP, DEPTH, DRAIN
DBL	DOUBLE
DEMO	DEMOLITION
DET / DTL	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DIV	DIVISION
DL	DEAD LOAD
DMT	DEMOUNTABLE
DN	DOWN
DPG	DAMPPROOFING
DPR	DISPENSER
DR	DOOR, DISPLAY RAIL
DS	DOWNSPOUT
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATION, ELEVATOR
EM	ENTRANCE MAT
EMER	EMERGENCY
ENCL	ENCLOSE, ENCLOSURE
EP	ELECTRICAL PANELBOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXCA	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED / EXPANSION
EXP C	EXPANSION CONSTRUCTION
EXT	EXTERIOR
FAB	FABRICATE
FAS	FASTEN, FASTENER
FB	FACE BRICK
FCVD	FLASH COVED
FD	FLOOR DRAIN, FIRE DAMPER
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEJ	FLOOR EXPANSION JOINT
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FIBER REINFORCED GYPSUM BOARD
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH, FINISHED
FIX	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLSHG	FLASHING
FLUOR	FLUORESCENT
FLUR	FLUORESCENT
FND	FEMININE NAPKIN DISPENSER
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIREPROOF
FPL	FIREPLACE
FR	FIRE RATED
FRG	(GLASS) FIBER REINFORCED GYPSUM
FRM	FRAME, FRAMED
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FUM	FUME HOOD
FUR	FURRED, FURRING
FURN	FURNITURE
FURR	FURRING
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT, CONTRACTOR
GCMU	GLAZED FIBER REINFORCED CONCRETE
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS, GLAZING
GPM	GALLONS PER MINUTE
GR	GRADE / GROUT
GSU	GLAZED STRUCTURAL UNIT
GWB	GYPSUM WALLBOARD
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
H/C	HANDICAPPED
HB	HOSE BIB
HC	HOLLOW CORE
HD	HAND
HDBD	HARDBOARD
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HTG	HEATING
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE, INCLUDED, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATE, INSULATED, INSULATION
INT	INTERIOR
INTRLK	INTERLOCK
INV	INVERT
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR CLOSET
JCT	JUNCTION
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
L	LENGTH, LONG, LOW
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LG	LAMINATED GLASS
LH	LEFT HAND
LIN	LINEAR
LK	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LTG	LIGHTING
LTL	LINTEL
LVR	LOUVER
LW	LIGHTWEIGHT
M	METER
M/S	MOP SINK
MACH	MACHINE
MAINT	MAINTENANCE
MANUF	MANUFACTURE, MANUFACTURER
MAR	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBR	MODIFIED BITUMEN ROOF
MECH	MECHANIC, MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOLDING
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODIFIED
MOV	MOVABLE
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED, MOUNTING
MTL	METAL
MULL	MULLION
MWP	MEMBRANE WATERPROOFING
N	NORTH
N/C	NO CHARGE
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
P	PLATE
PAR	PARALLEL
PART	PARTIAL
PC	PRE-CAST, PIECE
PED	PEDESTAL
PERF	PERFORATE (D)
PERM	PERIMETER
PIP	POURED IN PLACE
PL	PROPERTY LINE / PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POLY	POLYURETHANE
PORT	PORCELAIN TILE
PORTB	PORCELAIN TILE BASE
PPT	PRESERVATIVE PRESSURE TREATED
PR	PAIR
PREFAB	PREFABRICATE, PREFABRICATED
PREFIN	PRE-FINISHED
PRJ SC	PROJECTION SCREEN
PRT	PORCELAIN TILE
PS	PENCIL SHARPENER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE / PVC EDGE BAND
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RIDGE
R/W	RIGHT OF WAY
RA	RETURN AIR
RAD	RADIUS
RAS	RESILIENT ATHLETIC SURFACING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECP	RECEPTACLE
REF	REFERENCE
REFRIG	REFRIGERATOR
REINF	REINFORCE, REINFORCED, REINFORCING
REM	REMOVE
REQD	REQUIRED
REQMT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION, REVISIONS, REVISED
RFG	ROOFING
RFL	REFLECT, REFLECTED, REFLECTIVE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSHT	RESILIENT SHEET
RT	RUBBER TILE / RUBBER TREAD
RTU	ROOF TOP UNIT
S	SOUTH
S/S	STAINLESS STEEL, SERVICE SINK
SAB	SOUND ATTENUATION BLANKET
SAN	SANITARY SEWER
SAPC	SUSPENDED ACOUSTIC PANEL CEILING
SC	SOLID CORE, SEALED CONCRETE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SD	SOAP DISPENSER, STORM DRAIN
SEC	SECTION
SF	SQUARE FEET
SFGL	SAFETY GLASS
SHLVG	SHELVING
SHM	SECURITY HOLLOW METAL
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SLR	SEALER
SN	STAGE NOSE
SND	SANITARY NAPKIN DISPOSER
SOF	SPRAY-ON FIREPROOFING
SPEC	SPECIFICATION, SPECIFICATIONS
SPK	SPEAKER
SQ	SQUARE
SS	SOLID SURFACE
ST	STAIN, STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STFT	STOREFRONT
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUB	SUBSTITUTE
SUSP	SUSPENDED
SYM	SYMMETRICAL, SYMMETRY
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&B	TOP & BOTTOM
TB	TACK BOARD
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERED
TERR	TERRAZZO
TG	TONGUE & GROVE
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CURB
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TPT	TEXTURED PAINT
TRTD	TREATED
TSC	TEACHERS STORAGE CABINET
TTD	TOILET TISSUE DISPENSER
TV	TELEVISION
TW	TEACHERS WARDROBE
TYP	TYPICAL
UC	UNDERCUT
UG	UNDER GROUND
UH	UNIT HEATER
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
V	VOLT, VALLEY
VAC	VACUUM
VAR	VARNISH
VB	VENTED BASE
VCT	VINYL COMPOSITION TILE
VEN	VENEER
VERT	VERTICAL
VEST	VESTIBULE
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST, WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WAIN	WAINSCOT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD / WOOD FLOORING
WDB	WOOD BASE
WDW	WINDOW
WGL	WIRE GLASS
WH	WATER HEATER
WI	WROUGHT IRON
WMS	WIRE MANAGEMENT SLOT
WP	WATERPROOFING
WPT	WORKING POINT
WR	WASTE RECEPTACLE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

ARCHITECTURAL MATERIAL LEGEND

- CONTINUOUS WOOD BLOCKING
- CONCRETE MASONRY UNIT
- CAST-IN-PLACE CONCRETE
- STEEL
- EARTH / COMPACT FILL
- BATT INSULATION
- POROUS FILL / GRAVEL
- RIGID INSULATION
- GYPSUM BOARD
- RESILIENT FLOORING / PLASTIC LAMINATE
- ALUMINUM
- FINISHED WOOD
- WOOD BLOCKING
- BRICK
- GLASS
- ACOUSTICAL TILE
- PLYWOOD
- CERAMIC TILE - LARGE SCALE
- SAND / MORTAR / PLASTER
- GRAVEL

ARCHITECTURAL GRAPHIC SYMBOLS



USING AGENCY APPROVAL

DGS APPROVAL

MARK DATE BY DESCR

REVISIONS

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 18837, expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: ARCHITECTURAL GENERAL INFORMATION

SHEET
A-001

GENERAL ARCHITECTURAL NOTES

1. THE BUILDING PERMIT WILL BE SECURED BY THE COLLEGE OF SOUTHERN MARYLAND FOR THE CONTRACTOR. THE CONTRACTOR SHALL UTILIZE THE BUILDING PERMIT TO SECURE AND PAY FOR ALL TRADE PERMITS AND FEES. ALL FINAL INSPECTIONS SHALL BE APPROVED FOR APPLICATION OF OCCUPANCY PERMIT.
2. THE EXISTING CONDITIONS INFORMATION INDICATED IN THE CONTRACT DOCUMENTS IS BASED ON EXISTING DOCUMENTATION AND FIELD OBSERVATIONS, BUT IS NOT A WARRANTY OF EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION. ALL NEW CONSTRUCTION IS INDICATED RELATIVE TO THE EXISTING BUILDING AND SHALL BE COORDINATED WITH THE ACTUAL FIELD CONDITIONS FOUND. THE CONTRACTOR SHALL ASSUME FULL AND UNDIVIDED RESPONSIBILITY FOR THE ACCURACY, FIT AND STABILITY OF ALL PARTS OF THE WORK.
3. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL REPAIR OR RESTORE TO ITS ORIGINAL CONDITION ALL WORK AND ITEMS DAMAGED AS A RESULT OF DEMOLITION AND CONSTRUCTION OPERATIONS. ANY DISTURBANCE OR DAMAGE TO THE EXISTING FACILITY RESULTING EITHER DIRECTLY OR INDIRECTLY FROM THE OPERATION OF THIS CONTRACT SHALL BE PROMPTLY REPAIRED, RESTORED OR REPLACED AT NO ADDITIONAL COST.
5. ALL TRANSITIONS OF NEW WORK TO EXISTING CONSTRUCTION, INCLUDING AT FLOORS, WALLS, CEILINGS AND ROOFS, SHALL BE CAREFULLY EXECUTED. EXISTING CONSTRUCTION SHALL BE REPAIRED OR PATCHED AS NEEDED TO PROVIDE A SMOOTH TRANSITION.
6. ALL NEW AND EXISTING TO REMAIN SUBSTRATES SHALL BE PROPERLY PREPARED BEFORE APPLICATION OF FINISHES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR SUBSTRATE CONDITIONS WHERE FINISHES ARE APPLIED.
7. CONTRACTOR SHALL COORDINATE BETWEEN ALL DESIGN DISCIPLINES AND CONSTRUCTION TRADES.
8. THE WORD "PROVIDE" SHALL MEAN CONTRACTOR TO SUPPLY, FURNISH, AND INSTALL COMPLETE WITH ALL PARTS, ACCESSORIES AND/OR SERVICES TO BE READY FOR ITS INTENDED USE.
9. PROVIDE ALL WORK INDICATED IN ALL DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
10. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES. VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK.
11. UNLESS OTHERWISE NOTED, ALL FLOOR PLAN DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, OR FACE OF FOUNDATION WALL.
12. INSTALLATION OF ALL TRADES SHALL BE IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, WHETHER ENFORCED OR NOT.
13. OWNER SUPPLIED-EQUIPMENT AND MATERIALS: THE OWNER SHALL PROVIDE ALL COORDINATION FOR THE INSTALLATION OF OWNER SUPPLIED OR NON-SELECTED EQUIPMENT AND MATERIALS FOR WHICH CRITERIA GENERALLY DESCRIBING OPERATION CHARACTERISTICS, ELECTRICAL, PLUMBING, MECHANICAL AND PHYSICAL REQUIREMENTS HAVE NOT BEEN COMMUNICATED TO THE ARCHITECT IN WRITING PRIOR TO PUBLICATION OF CONSTRUCTION DOCUMENTS. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR APPROPRIATENESS OF THE OWNER-SUPPLIED MATERIALS AND EQUIPMENT.
14. INSTALL ALL TRADES IN CONFORMANCE WITH ICC/ANSI A117.1 (2017) AND ADA STANDARDS FOR ACCESSIBLE DESIGN (2010). INSTALL ALL REQUIRED BLOCKING FOR ALL HANDICAP TOILET FIXTURES AND ACCESSORIES. INSTALLATION FOR GRAB BARS TO MEET OR EXCEED A MINIMUM 250# FORCE HORIZONTALLY AND VERTICALLY.
15. WHERE REQUIRED BY CODE, PROVIDE NON-COMBUSTIBLE MATERIALS IN LIEU OF MATERIALS INDICATED ON THE DRAWINGS.
16. UNLESS OTHERWISE INDICATED, EACH NOTE, DETAIL, SECTION, OR FEATURE SHOWN FOR ONE CONDITION SHALL APPLY TO ALL SIMILAR CONDITIONS. WHERE A NOTE, DETAIL, SECTION, OR FEATURE IS NOT INDICATED, THE INTENT IS THAT THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH SIMILAR NOTES, DETAILS, SECTIONS, OR FEATURES THAT ARE INDICATED. REFER ANY CONDITIONS IN QUESTION TO THE ARCHITECT FOR INTERPRETATION.
17. LOCATE ALL SLOTS, CHASES, OPENINGS, AND RECESSES THROUGH FLOORS WALLS, CEILINGS, AND ROOFS REQUIRED FOR PROPER INSTALLATION OF THE WORK PRIOR TO CONSTRUCTION. PROVIDE MISCELLANEOUS BUILT-UP JAMBS, HEADERS, AND OTHER FRAMING AS SHOWN OR REASONABLY IMPLIED TO FRAME OPENINGS IN WALLS, FLOORS, CEILINGS, ROOFS AND SIMILAR ASSEMBLIES FOR MECHANICAL, ELECTRICAL OR OTHER EQUIPMENT AND ANY OTHER WORK WHICH PASSES THROUGH THE VARIOUS WALL, FLOOR, CEILING, ROOF, OR SIMILAR ASSEMBLIES.
18. THE CONTRACTOR SHALL MAINTAIN TWO (2) SETS OF "AS-BUILT" DRAWINGS, INDICATING REVISIONS TO THE WORK. THE AS-BUILT DRAWINGS WILL BE PROVIDED TO THE OWNER AT THE COMPLETION OF THE PROJECT AND PRIOR TO FINAL PAYMENT.
19. THE CONTRACTOR, AT ALL TIMES, SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THE CONTRACTOR'S OPERATIONS. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL SUCH WASTE MATERIAL AND RUBBISH FROM THE PREMISES AS WELL AS THE CONTRACTOR'S TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.
20. ALL ON SITE STORM DRAINAGE SHALL BE INSPECTED BY BOTH THE CIVIL ENGINEER OF RECORD AND THE CIVIL INSPECTOR FOR COMPLIANCE WITH THE REQUIREMENTS AS SHOWN ON THE APPROVED CIVIL DRAWINGS, SPECIFICATIONS, AND AS PER THE VIRGINIA PLUMBING CODE 2018, CHAPTER 11. THUS, THE CONTRACTOR SHALL REQUEST INSPECTION(S) FOR APPROVAL OF WORK PRIOR TO COVERING ANY STORM DRAINAGE INDICATED ON THE APPROVED SITE PLAN AND CIVIL DRAWINGS.
21. IN ADDITION TO COMPLIANCE WITH THE CONTRACT DOCUMENTS, ALL PLUMBING PIPING WITHIN THE BUILDING INCLUDING STORM, SANITARY, AND WATER DISTRIBUTION MUST BE TESTED AND APPROVED BY THE PLUMBING INSPECTOR AND MEET THE REQUIREMENTS OF VIRGINIA PLUMBING CODE, 2018. THE CONTRACTOR SHALL REQUEST INSPECTIONS BY COUNTY PLUMBING INSPECTOR PRIOR TO COVERING ANY INSTALLED WORK. CONTRACTOR MUST SECURE PERMIT PRIOR TO INSTALLATION.
22. ELECTRICAL RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24" APART OR PROTECTED BY OTHER MEANS AS REQUIRED BY SECTION 714.4.2 INTERNATIONAL BUILDING CODE, 2018.
23. PROVIDE APPROVED ELECTRICALLY ILLUMINATED EXIT SIGNS SHALL BE INSTALLED OVER ALL REQUIRED EXIT DOORS. WHERE NECESSARY, DIRECTIONAL SIGNS SHALL BE PROVIDED TO INDICATE THE DIRECTION AND WAY OF EGRESS; SECTION 1013 OF THE INTERNATIONAL BUILDING CODE, 2018. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
24. PROVIDE APPROVED EMERGENCY LIGHTING FOR ILLUMINATION OF ALL MEANS OF EGRESS. ACTUATION IS TO BE AUTOMATIC IN THE EVENT OF POWER FAILURE; SECTION 1008, INTERNATIONAL BUILDING CODE, 2018. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
25. THERE SHALL BE NO UNPROTECTED OPENINGS WITHIN FIRE RATED ASSEMBLIES. ALL DUCT PENETRATIONS SHALL BE PROTECTED WITH FIRE DAMPERS. EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE, WIRE, OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR UL 1479.
26. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN OCCUPANCIES AND LOCATION AS REQUIRED BY SECTION 906 OF THE INTERNATIONAL BUILDING CODE, 2018. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
27. AN APPROVED FIRE ALARM SYSTEM SHALL BE INSTALLED IN THIS BUILDING IN ACCORDANCE WITH SECTION 907, INTERNATIONAL BUILDING CODE, 2018. DETAILED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE COUNTY FIRE PROTECTION ENGINEER FOR REVIEW AND A PERMIT SECURED PRIOR TO INSTALLATION. FIRE ALARM SYSTEM DESIGN AND SUBMISSION FOR PERMIT APPROVAL BY OTHERS (PRIOR TO START OF THIS WORK.) REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
28. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL MECHANICAL CODE, 2018. DETAILED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE COUNTY MECHANICAL INSPECTOR FOR REVIEW AND A MECHANICAL PERMIT SECURED PRIOR TO INSTALLATION. REFERENCE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
29. ALL ELECTRICAL INSTALLATION SHALL CONFORM TO CHAPTER 27 OF THE INTERNATIONAL BUILDING CONSTRUCTION CODE, 2018 AND NATIONAL ELECTRICAL CODE, 2017. A PERMIT SHALL BE SECURED PRIOR TO COMMENCEMENT OF ANY WORK. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
30. WIRING METHODS SHALL NOT BE SECURED TO OR SUPPORTED BY THE CEILING ASSEMBLY, INCLUDING CEILING SUPPORT WIRES. WHEN SUCH WIRING METHODS ARE LOCATED ABOVE A FLOOR/CEILING OR ROOF/CEILING ASSEMBLY.
31. ALL POTABLE WATER OUTLETS SHALL BE PROTECTED FROM CROSS-CONNECTION AS REQUIRED UNDER SECTION 608. I INTERNATIONAL PLUMBING CODE, 2018. REFERENCE CIVIL AND PLUMBING DRAWINGS/SPECIFICATIONS FOR ADDITIONAL I FORMATION. THE PLUMBING INSPECTOR SHOULD BE GIVEN ANY INFORMATION ON TESTABLE BACKFLOW PREVENTERS (REDUCED PRESSURE, DOUBLE CHECK ASSEMBLY, OR PRESSURE VACUUM BREAKER TYPE.) TEST REQUIRED BY CERTIFIED TESTER PRIOR TO PLUMBING FINAL ON ANY TESTABLE BACKFLOW DEVICE.
32. ALL VERTICAL FIRE RESISTANT RATED ASSEMBLIES SHALL BE IDENTIFIED BY SIGNAGE LOCATED ON THE ASSEMBLY ABOVE THE CEILING. SUCH SIGNAGE SHALL HAVE LETTERS NO SMALLER THAN ONE INCH IN HEIGHT THAT STATE **"XX FIRE RATED BARRIER"** ("XX" EQUALS THE HOURLY RATING AND ADJUST "BARRIER" FOR THE PROPER RATED WALL ASSEMBLY). SIGNAGE SHALL BE PLACED AT HORIZONTAL INTERVALS OF 8 FEET.

USING AGENCY APPROVAL

DGS APPROVAL

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND · REGISTERED ARCHITECT · No. 18837
12/9/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

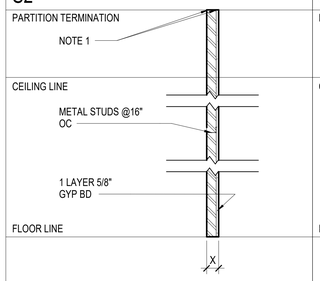
PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: ARCHITECTURAL GENERAL INFORMATION

SHEET A-002

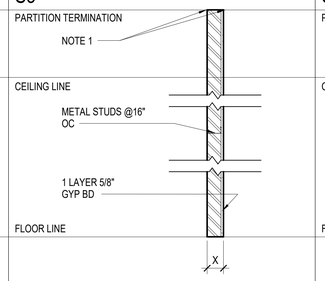
12/9/2022 12:25:02 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

S2



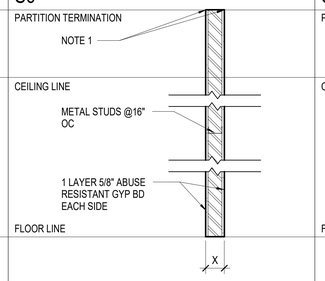
ACTUAL DIMENSION 'X'	3 1/8"
STUD SIZE	2 1/2"
CMU SIZE	-

S3



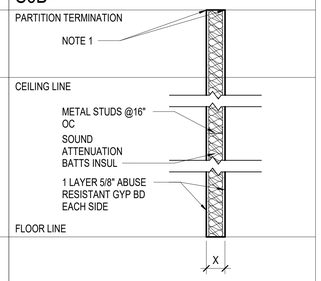
ACTUAL DIMENSION 'X'	4 1/4"
STUD SIZE	3 5/8"
CMU SIZE	-

S6



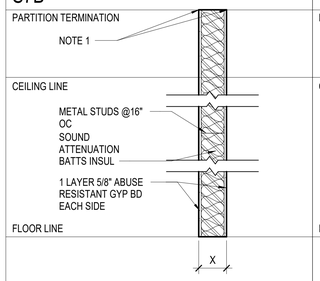
ACTUAL DIMENSION 'X'	4 7/8"
STUD SIZE	3 5/8"
CMU SIZE	-

S6B



ACTUAL DIMENSION 'X'	4 7/8"
STUD SIZE	3 5/8"
CMU SIZE	-

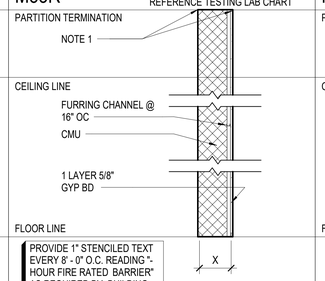
S7B



ACTUAL DIMENSION 'X'	7 1/4"
STUD SIZE	6"
CMU SIZE	-

M33R

FIRE RESISTANCE RATED PARTITION - REFERENCE TESTING LAB CHART

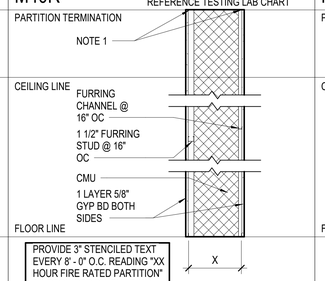


PROVIDE 1" STENCILED TEXT EVERY 8' - 0" O.C. READING "-HOUR FIRE RATED BARRIER" AS REQUIRED BY BUILDING CODE

ACTUAL DIMENSION 'X'	9 1/8"
STUD SIZE	7/8"
CMU SIZE	7 5/8"

M40R

FIRE RESISTANCE RATED PARTITION - REFERENCE TESTING LAB CHART

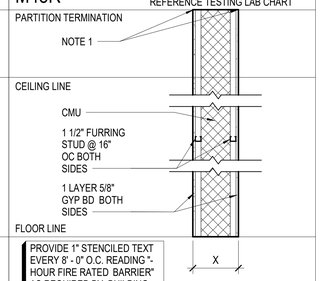


PROVIDE 3" STENCILED TEXT EVERY 8' - 0" O.C. READING "XX HOUR FIRE RATED PARTITION" AS REQUIRED BY BUILDING CODE

ACTUAL DIMENSION 'X'	1' - 1 3/4"
STUD SIZE	1 1/2"
CMU SIZE	11 5/8"

M48R

FIRE RESISTANCE RATED PARTITION - REFERENCE TESTING LAB CHART

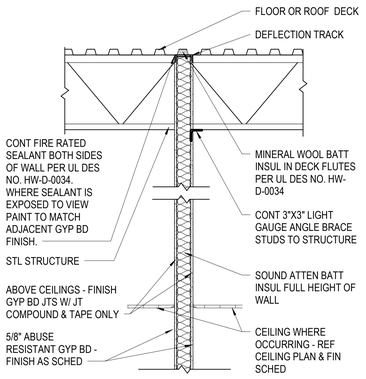


PROVIDE 1" STENCILED TEXT EVERY 8' - 0" O.C. READING "-HOUR FIRE RATED BARRIER" AS REQUIRED BY BUILDING CODE

ACTUAL DIMENSION 'X'	11 7/8"
STUD SIZE	1 1/2"
CMU SIZE	7 5/8"

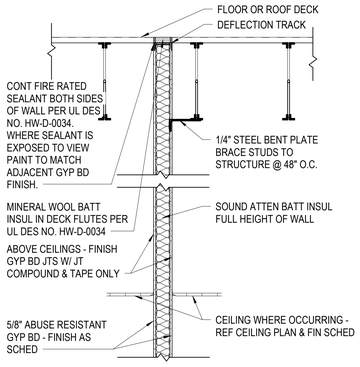
PARTITION TYPES

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



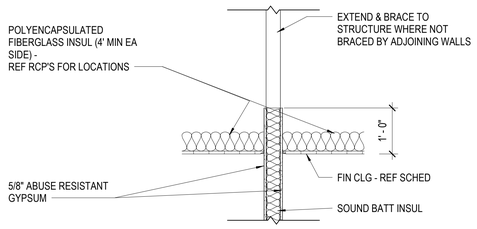
TYPICAL TERMINATION OF MTL STUD PARTITION REQUIRED TO EXTEND TO DECK ABOVE.

SHOWN ON REFLECTED CEILING PLANS SHADED SOLID



TYPICAL TERMINATION OF MTL STUD PARTITION REQUIRED TO EXTEND TO DECK ABOVE.

SHOWN ON REFLECTED CEILING PLANS SHADED SOLID



TYPICAL TERMINATION OF MTL STUD PARTITION **NOT** REQUIRED TO EXTEND TO DECK ABOVE

SHOWN ON REFLECTED CEILING PLANS THUS

METAL STUD PARTITION TERMINATION

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

PARTITION TYPE NOTES

1. PARTITION TERMINATION LOCATION & CONDITIONS MAY VARY. REFER TO REFLECTED CEILING PLANS FOR PARTITION TERMINATION LEGEND AND SHEET A-003 FOR TYPICAL TERMINATION DETAILS.
2. REFER TO LIFE SAFETY PLAN FOR LOCATIONS AND RATING OF FIRE RATED PARTITIONS. REFERENCE TESTING LAB CHART ON SHEET A-003 FOR UL ASSEMBLIES ASSOCIATED WITH FIRE RESISTANCE RATED PARTITIONS.
3. PARTITION TYPES DO NOT INCLUDE ALL APPLIED FINISHES. REFER TO FINISH SCHEDULE.
4. USE FIRE RATED GYPSUM BOARD AT FIRE RATED GYPSUM BOARD PARTITIONS.

TESTING LAB CHART

	PARTITIONS			
	PARTITION TYPE	1 HR RATING	2 HR RATING	LOCATION
E	M33R		#U905*	INTERIOR NON-BEARING
D	M40R		#U905*	INTERIOR/ EXTERIOR BEARING
C	M48R	#U905*		INTERIOR BEARING
	CEILINGS			
	CEILING TYPE	1 HR RATING		
	N/A	N/A		

* ASSEMBLY PROVIDES FOR 2 HR FIRE RATING BY CONSTRUCTION; 2 HR OR 0 HR FIRE RATING REQUIRED - REF LIFE SAFETY PLANS.

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED PROFESSIONAL ARCHITECT No. 18837 12/09/2022

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

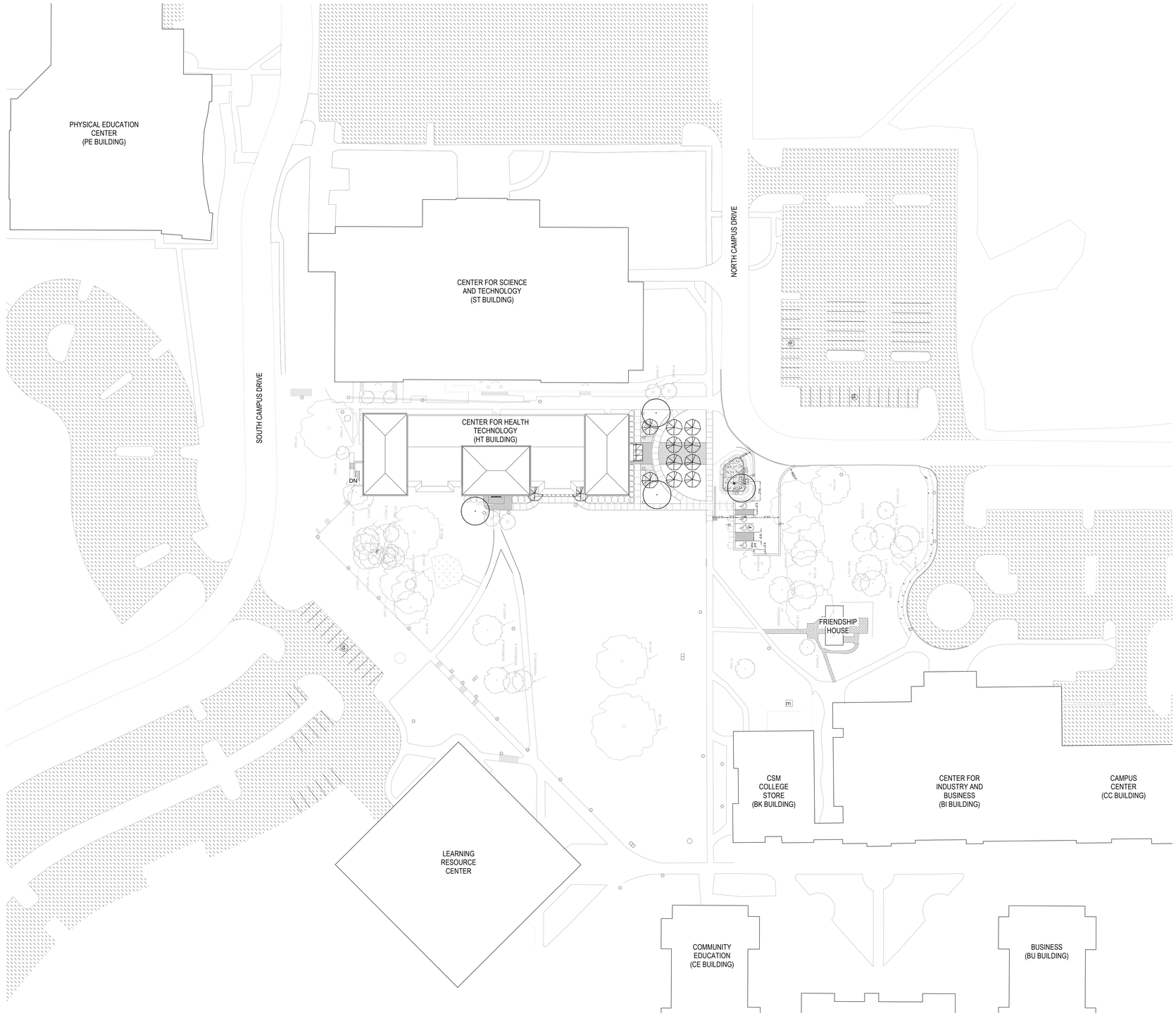
DRAWING
PARTITION TYPES, PARTITION TERMINATION DETAILS

MHEC PROJECT CC-09-473

SHEET
A-003

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

2/13/2023 4:33:42 PM



1 A-100 ARCHITECTURAL SITE PLAN
SCALE: 1" = 40'-0"

USING AGENCY APPROVAL

Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of PM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH L. MARSH No. 18837 ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

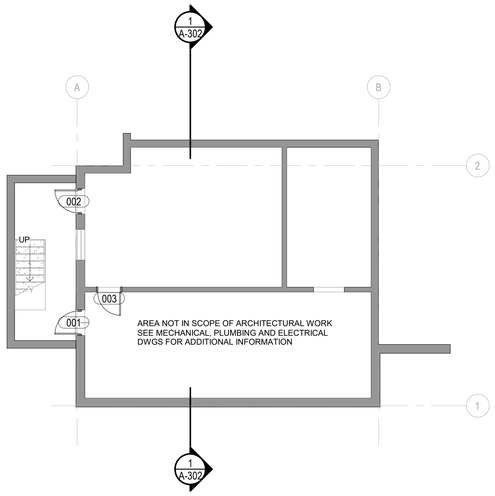
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ARCHITECTURAL SITE PLAN

SHEET
A-100

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
2/13/2023 5:21:29 PM



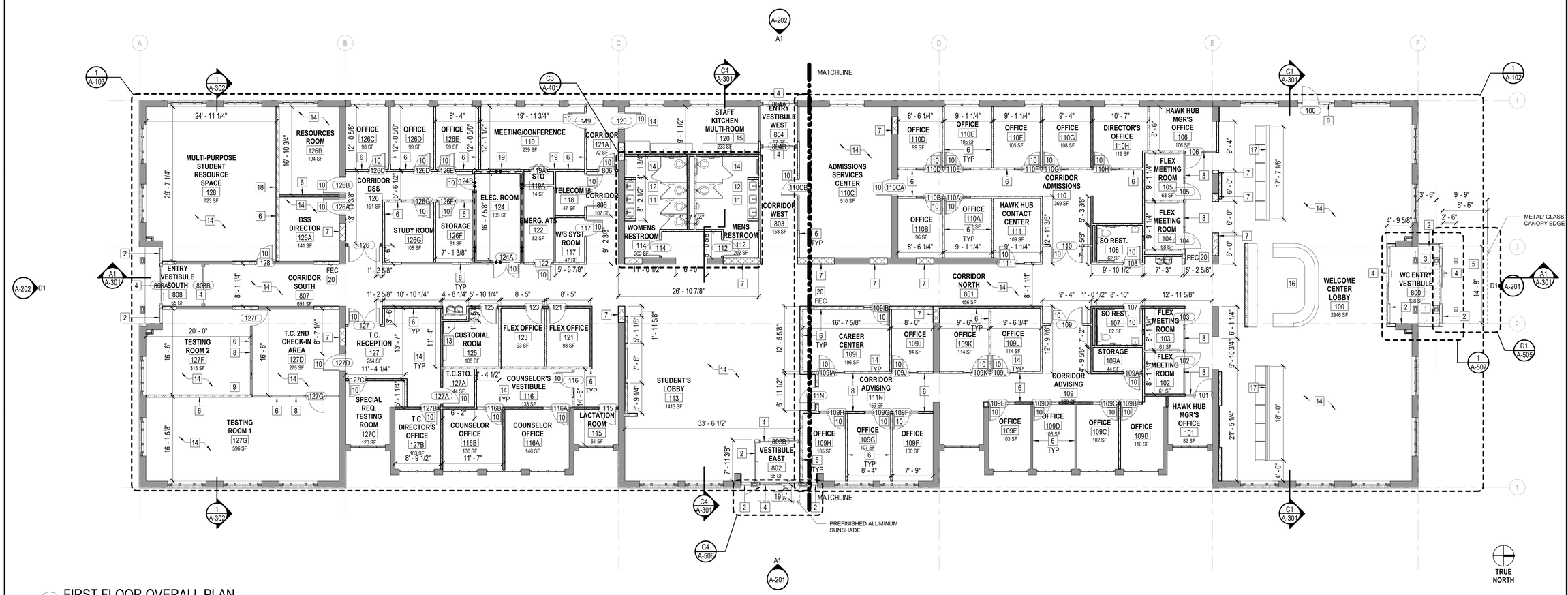
1 A-101 LOWER LEVEL PLAN
SCALE: 1/8" = 1'-0"

NEW WORK KEY NOTES (APPLIES TO SHEETS A-101, A-102 AND A-103)

1. NEW CONCRETE SLAB ON GRADE AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS FOR ADDITIONAL INFORMATION
2. NEW PREFINISHED ALUMINUM AND GLASS EXTERIOR CURTAIN WALL. REFER TO CURTAIN WALL SCHEDULE ON SHEET **A-602** FOR ADDITIONAL INFORMATION
3. NEW STEEL STRUCTURE AND ROOF AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS AND SHEETS **A-303** AND **A-304** FOR ADDITIONAL INFORMATION
4. NEW EXTERIOR AUTOMATIC SINGLE SLIDING DOORS FRAMED IN CURTAIN WALL. REFER TO DOOR SCHEDULE
5. NEW ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) W/ ALUMINUM MULLIONS AND LAMINATED GLASS CANOPY - REFER TO STRUCTURAL DWGS AND SHEETS **A-505** AND **A-506** FOR ADDITIONAL INFORMATION

5A. NEW PREFINISHED ALUMINUM SUNSHADE. REFER TO SHEET **A-506** FOR ADDITIONAL INFORMATION

6. NEW MTL. STUD AND GYP BD WALL. SEE WALL TYPE SCHEDULE FOR A DESCRIPTION OF THE WALL ASSEMBLIES. REFER TO FINISH SCHEDULE
7. CMU WALL INFILL - MATCH THICKNESS OF EXISTING CMU. INSTALL MTL FURRING AND GYP FURRING TO BE FLUSH WITH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO
8. NEW INTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
9. NEW EXTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
10. NEW DOOR, FRAME AND HARDWARE. REFER TO DOOR SCHEDULE
11. NEW SINK WITH FAUCET. REFER TO PLUMBING DRAWINGS
12. NEW PLUMBING FIXTURES AND TOILET ACCESSORIES. REFER TO PLUMBING DRAWINGS AND TOILET ACCESSORY SCHEDULE
13. NEW SERVICE SINK FOR WITH FAUCET, MOP HOLDER AND HOOKS. REFER TO PLUMBING DRAWINGS
14. NEW FLOORING. REFER TO FINISH SCHEDULE AND SHEET A-701 FOR ADDITIONAL INFORMATION
15. NEW BASE CABINETS, COUNTERTOP AND UPPER CABINETS INCLUDING HARDWARE
16. NEW RECEPTION DESK
17. NEW STUDENT TRANSACTION DESKS
18. MARKERBOARD - 120"L x 48"H, MOUNT BOTTOM AT 36"AFF
19. MARKERBOARD - 72"L x 48"H, MOUNT BOTTOM AT 36"AFF
20. NEW RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER



2 A-101 FIRST FLOOR OVERALL PLAN
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of PM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH M. TABAT ARCHITECT 12/09/2022

PERMIT SET SUBMISSION

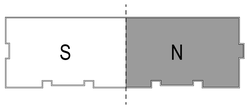
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
OVERALL FLOOR PLANS

SHEET
A-101

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:25:09 PM



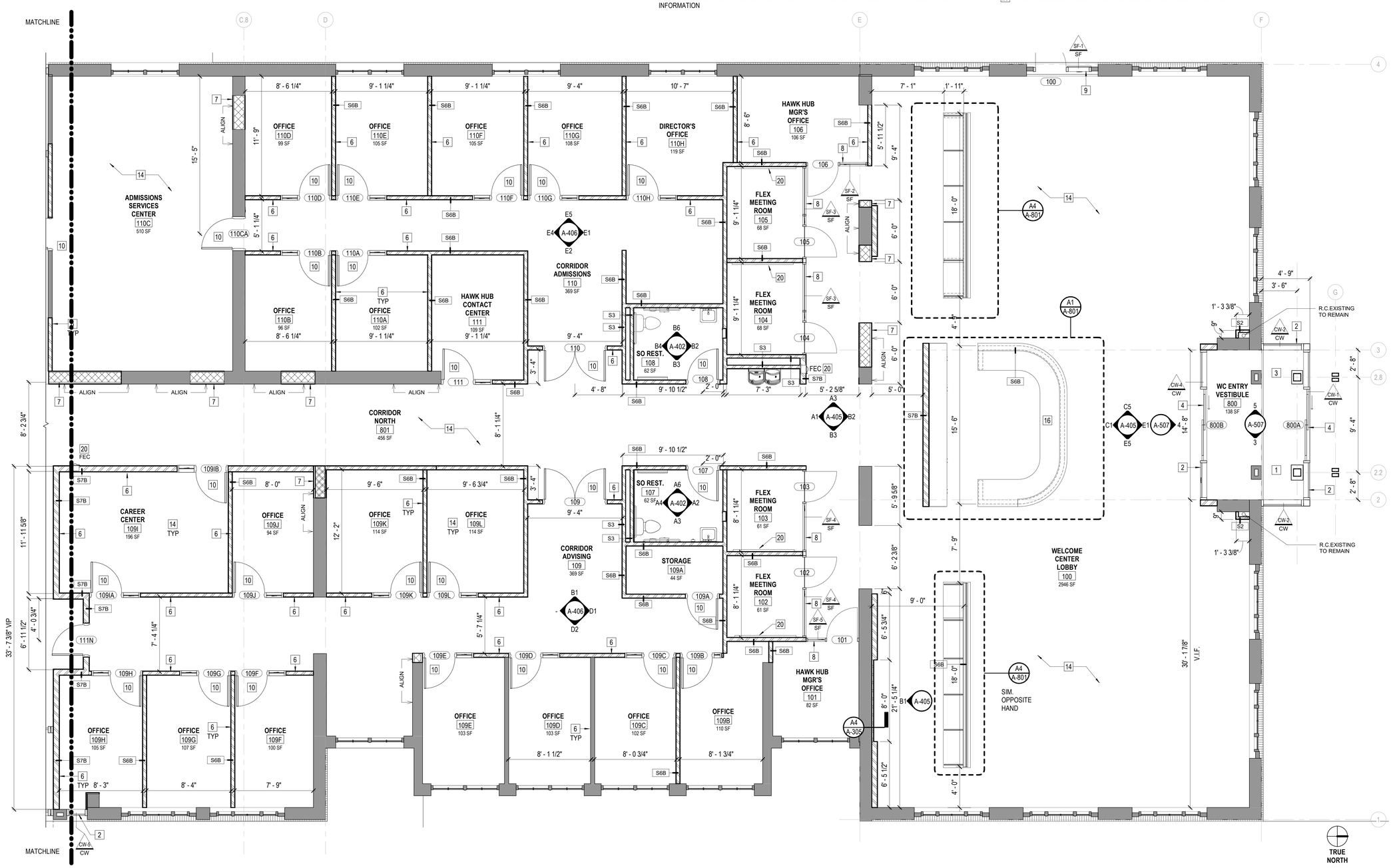
KEY PLAN - NORTH

NEW WORK KEY NOTES (APPLIES TO SHEETS A-101, A-102 AND A-103)

1. NEW CONCRETE SLAB ON GRADE AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS FOR ADDITIONAL INFORMATION
2. NEW PREFINISHED ALUMINUM AND GLASS EXTERIOR CURTAIN WALL. REFER TO CURTAIN WALL SCHEDULE ON SHEET **A-602** FOR ADDITIONAL INFORMATION
3. NEW STEEL STRUCTURE AND ROOF AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS AND SHEETS **A-303** AND **A-304** FOR ADDITIONAL INFORMATION
4. NEW EXTERIOR AUTOMATIC SINGLE SLIDING DOORS FRAMED IN CURTAIN WALL. REFER TO DOOR SCHEDULE
5. NEW ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) W/ ALUMINUM MULLIONS AND LAMINATED GLASS CANOPY - REFER TO STRUCTURAL DWGS AND SHEETS **A-505** AND **A-506** FOR ADDITIONAL INFORMATION

5A. NEW PREFINISHED ALUMINUM SUNSHADE. REFER TO SHEET **A-506** FOR ADDITIONAL INFORMATION

6. NEW MTL. STUD AND GYP BD WALL. SEE WALL TYPE SCHEDULE FOR A DESCRIPTION OF THE WALL ASSEMBLIES. REFER TO FINISH SCHEDULE
7. CMU WALL INFILL - MATCH THICKNESS OF EXISTING CMU. INSTALL MTL FURRING AND GYP FURRING TO BE FLUSH WITH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO
8. NEW INTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
9. NEW EXTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
10. NEW DOOR, FRAME AND HARDWARE. REFER TO DOOR SCHEDULE
11. NEW SINK WITH FAUCET. REFER TO PLUMBING DRAWINGS
12. NEW PLUMBING FIXTURES AND TOILET ACCESSORIES. REFER TO PLUMBING DRAWINGS AND TOILET ACCESSORY SCHEDULE
13. NEW SERVICE SINK FOR WITH FAUCET, MOP HOLDER AND HOOKS. REFER TO PLUMBING DRAWINGS
14. NEW FLOORING. REFER TO FINISH SCHEDULE AND SHEET A-701 FOR ADDITIONAL INFORMATION
15. NEW BASE CABINETS, COUNTERTOP AND UPPER CABINETS INCLUDING HARDWARE
16. NEW RECEPTION DESK
17. NEW STUDENT TRANSACTION DESKS
18. MARKERBOARD - 120"L x 48"H, MOUNT BOTTOM AT 36"AFF
19. MARKERBOARD - 72"L x 48"H, MOUNT BOTTOM AT 36"AFF
20. NEW RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER



1 A-102 ENLARGED PLAN - NORTH
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH M. MYERS No. 18837 ARCHITECT 12/09/2022

PERMIT SET SUBMISSION

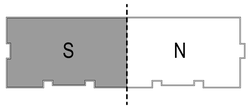
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR PLAN - NORTH

SHEET
A-102

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:35:13 PM



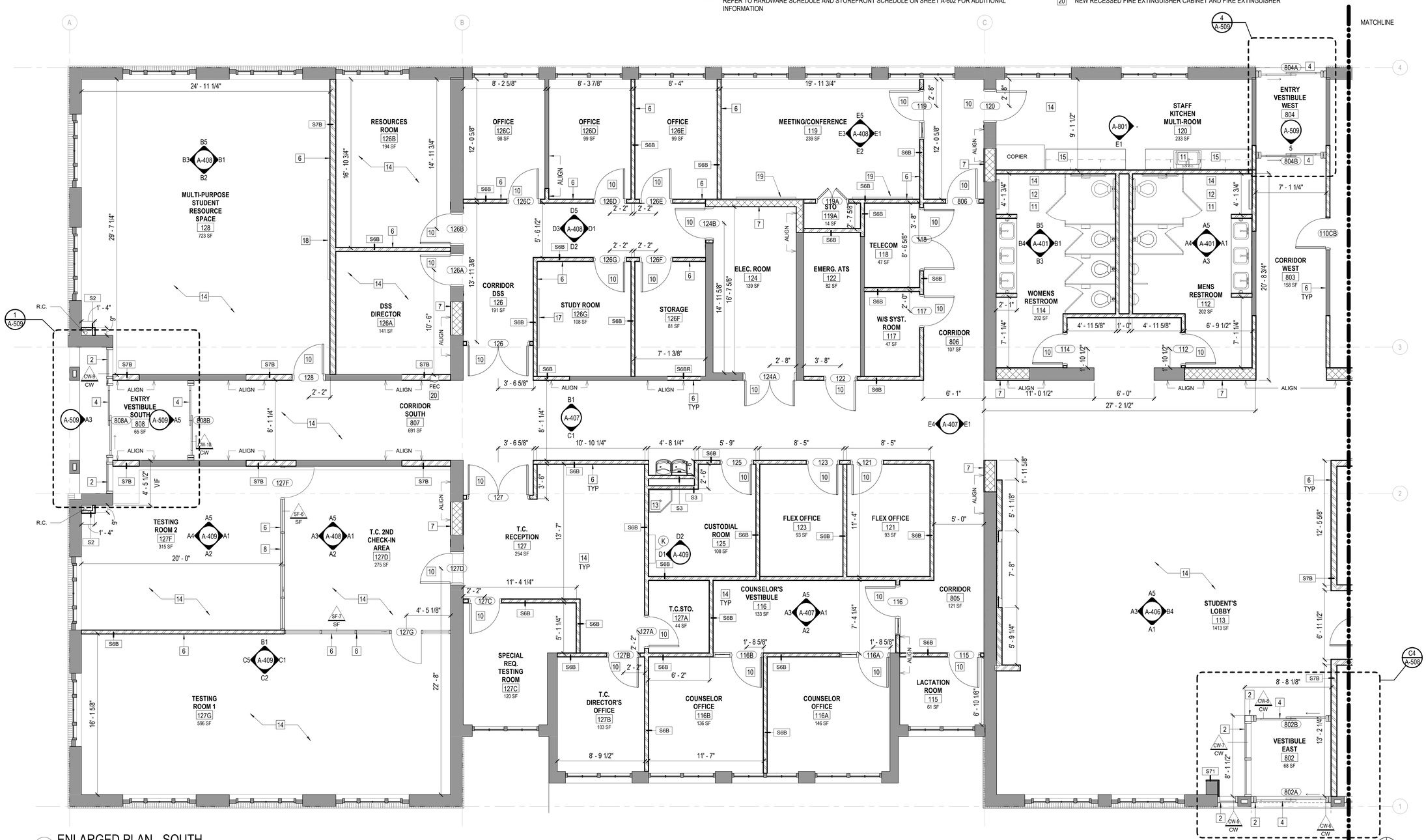
KEY PLAN - SOUTH

NEW WORK KEY NOTES (APPLIES TO SHEETS A-101, A-102 AND A-103)

1. NEW CONCRETE SLAB ON GRADE AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS FOR ADDITIONAL INFORMATION
2. NEW PREFINISHED ALUMINUM AND GLASS EXTERIOR CURTAIN WALL. REFER TO CURTAIN WALL SCHEDULE ON SHEET **A-602** FOR ADDITIONAL INFORMATION
3. NEW STEEL STRUCTURE AND ROOF AT NEW NORTH VESTIBULE. REFER TO STRUCTURAL DWGS AND SHEETS **A-303** AND **A-304** FOR ADDITIONAL INFORMATION
4. NEW EXTERIOR AUTOMATIC SINGLE SLIDING DOORS FRAMED IN CURTAIN WALL. REFER TO DOOR SCHEDULE
5. NEW ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) W/ ALUMINUM MULLIONS AND LAMINATED GLASS CANOPY - REFER TO STRUCTURAL DWGS AND SHEETS **A-505** AND **A-506** FOR ADDITIONAL INFORMATION

5A. NEW PREFINISHED ALUMINUM SUNSHADE. REFER TO SHEET **A-506** FOR ADDITIONAL INFORMATION

6. NEW MTL. STUD AND GYP BD WALL. SEE WALL TYPE SCHEDULE FOR A DESCRIPTION OF THE WALL ASSEMBLIES. REFER TO FINISH SCHEDULE
7. CMU WALL INFILL - MATCH THICKNESS OF EXISTING CMU. INSTALL MTL FURRING AND GYP FURRING TO BE FLUSH WITH EXISTING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFO
8. NEW INTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
9. NEW EXTERIOR PREFINISHED ALUMINUM AND GLASS STOREFRONT, DOOR AND HARDWARE. REFER TO HARDWARE SCHEDULE AND STOREFRONT SCHEDULE ON SHEET A-602 FOR ADDITIONAL INFORMATION
10. NEW DOOR, FRAME AND HARDWARE. REFER TO DOOR SCHEDULE
11. NEW SINK WITH FAUCET. REFER TO PLUMBING DRAWINGS
12. NEW PLUMBING FIXTURES AND TOILET ACCESSORIES. REFER TO PLUMBING DRAWINGS AND TOILET ACCESSORY SCHEDULE
13. NEW SERVICE SINK FOR WITH FAUCET, MOP HOLDER AND HOOKS. REFER TO PLUMBING DRAWINGS
14. NEW FLOORING. REFER TO FINISH SCHEDULE AND SHEET A-701 FOR ADDITIONAL INFORMATION
15. NEW BASE CABINETS, COUNTERTOP AND UPPER CABINETS INCLUDING HARDWARE
16. NEW RECEPTION DESK
17. NEW STUDENT TRANSACTION DESKS
18. MARKERBOARD - 120"L x 48"H, MOUNT BOTTOM AT 36"AFF
19. MARKERBOARD - 72"L x 48"H, MOUNT BOTTOM AT 36"AFF
20. NEW RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER



1 A-103 ENLARGED PLAN - SOUTH
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL

Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of PM&CD / Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT No. 18831

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR PLAN - SOUTH

SHEET
A-103

12/9/2022 12:25:16 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

REFLECTED CEILING PLAN LEGEND

GYPSUM BOARD CEILING OR BULKHEAD	DOWN LIGHT
2'-0" x 2'-0" LAY-IN ACOUSTICAL TILE CEILING IN SUSPENDED GRID	SUPPLY DIFFUSER
2'-0" x 4'-0" LAY-IN ACOUSTICAL TILE CEILING IN SUSPENDED GRID	RETURN AIR GRILLE
ACCOUSTICAL BATT INSULATION ON TOP OF DROP CEILING. KEEP INSULATION CLEAR OF ALL LIGHT FIXTURES	+X'-X" CEILING HEIGHT
LIGHT FIXTURES	WIRELESS ACCESS DEVICE - REF ELECTRICAL DWGS
	OCCUPANCY SENSOR - REF ELECTRICAL DWGS
	CEILING SPEAKER - REF ELECTRICAL DWGS
	EXIT LIGHT

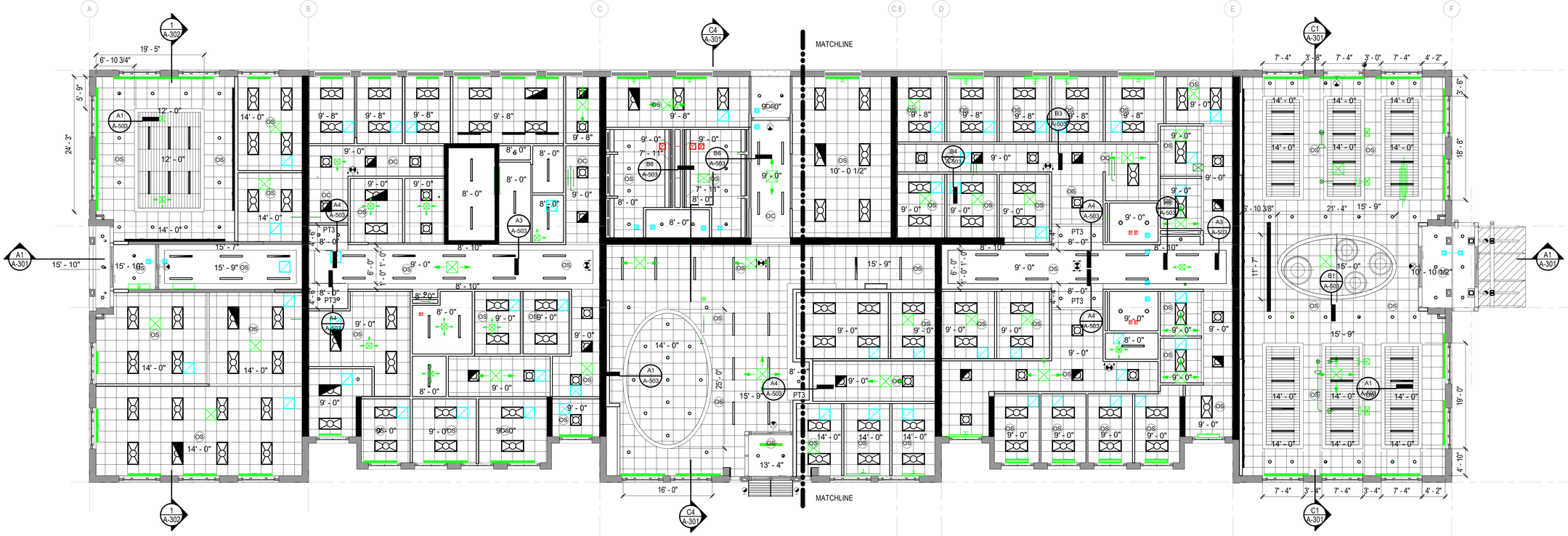
PARTITION TERMINATION LEGEND

PARTITION WHICH PENETRATES THE CLG & TERMINATES 4" ABV FINISHED CLG. UON

PARTITION WHICH CONTINUES THROUGH CLG TO BOTTOM OF ROOF DECK ABV (UNLESS NOTED OTHERWISE). AT GYP BD PARTITION PROVIDE BATT INSUL IN VOIDS IN DECK FOR SOUND TRANSMISSION BLOCKING OR CONT SEALANT. REF PARTITION TYPE LEGEND ON A-003 FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN LEGEND

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



1 A-104 FIRST FLOOR - RCP

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

TRUE NORTH

NOTES:
1. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE
2. SEE MECHANICAL DRAWINGS FOR AIR DEVICES

USING AGENCY APPROVAL

Name: Date:

Title: DGS APPROVAL

Project Manager: Date:

Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT NO. 18831

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

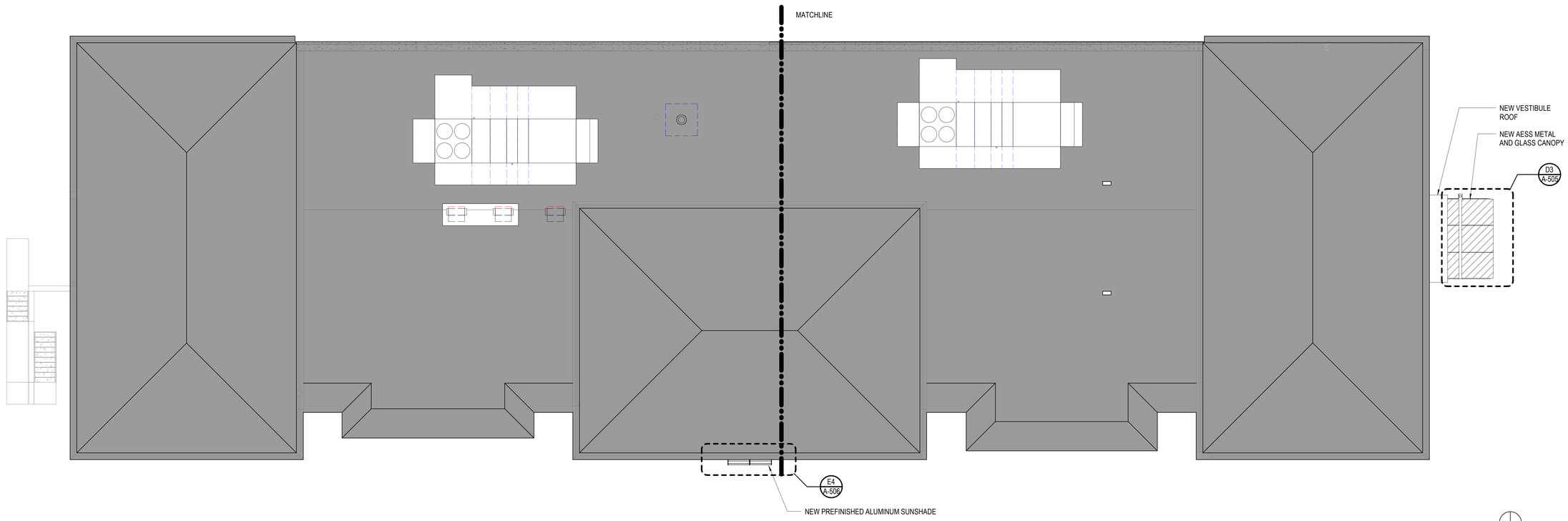
DRAWING FIRST FLOOR REFLECTED CEILING PLAN

SHEET A-104

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

2/13/2023 5:26:34 PM

NOTES:
1. BUILDING ROOF NOT IN SCOPE OF ARCHITECTURAL RENOVATION
2. SEE MECHANICAL DRAWINGS FOR SCOPE ON HVAC ROOF TOP UNITS REPLACEMENT



1 A-105 ROOF PLAN
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. LAMBERT
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

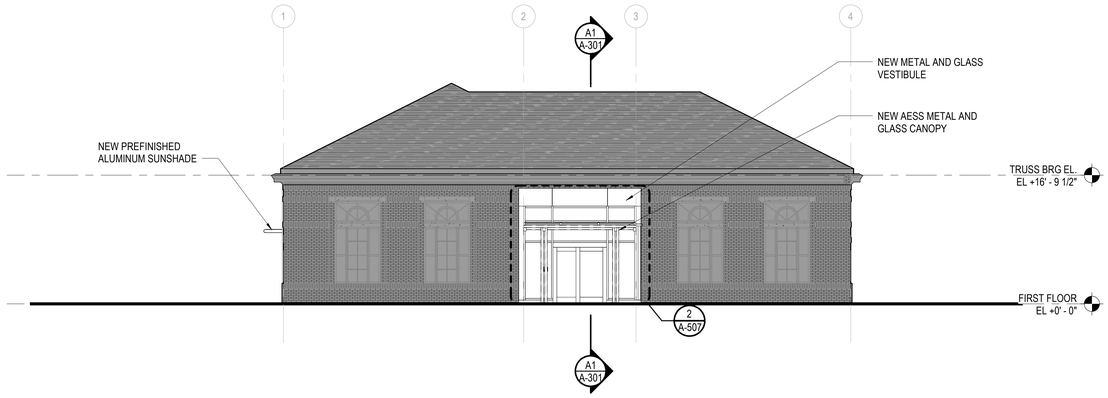
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

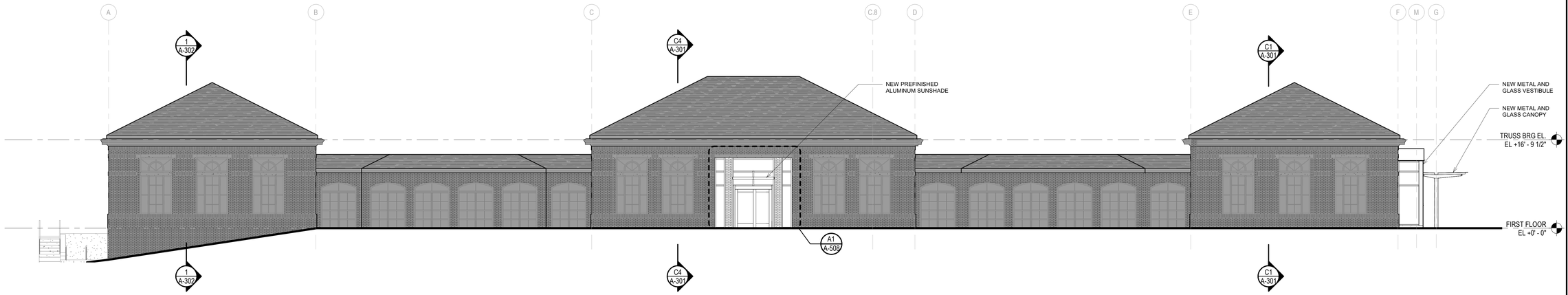
DRAWING
ROOF PLAN

SHEET
A-105

12/9/2022 12:25:22 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt



D1 A-201 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



A1 A-201 EAST ELEVATION
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. LEONARD
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

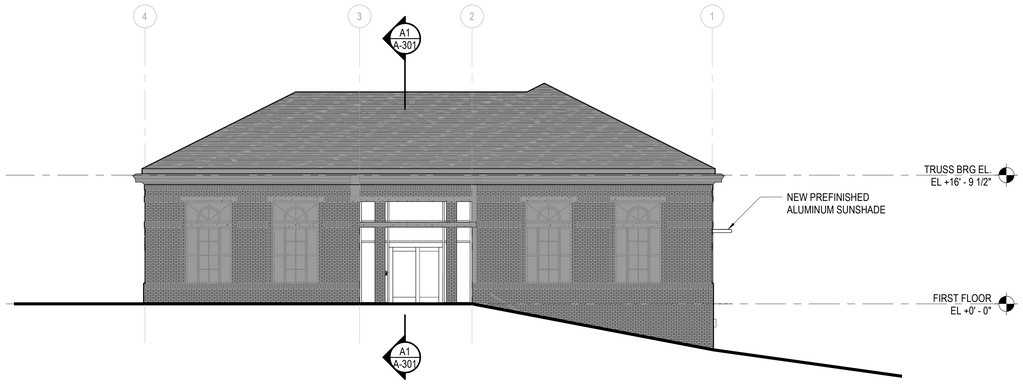
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

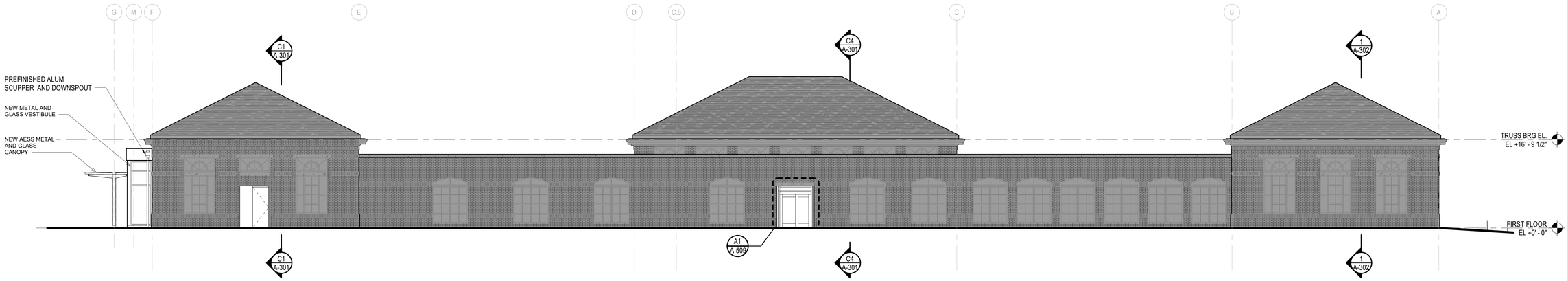
DRAWING
EXTERIOR ELEVATIONS

SHEET
A-201

12/9/2022 12:25:25 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt



D1 A-202 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



A1 A-202 WEST ELEVATION
SCALE: 1/8" = 1'-0"

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. BARRETT
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

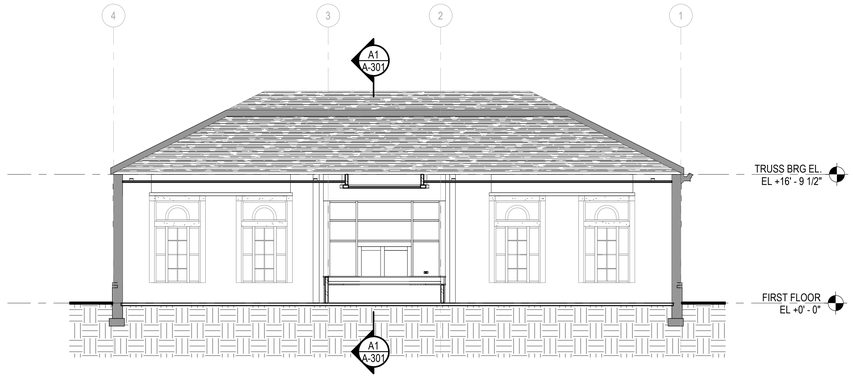
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

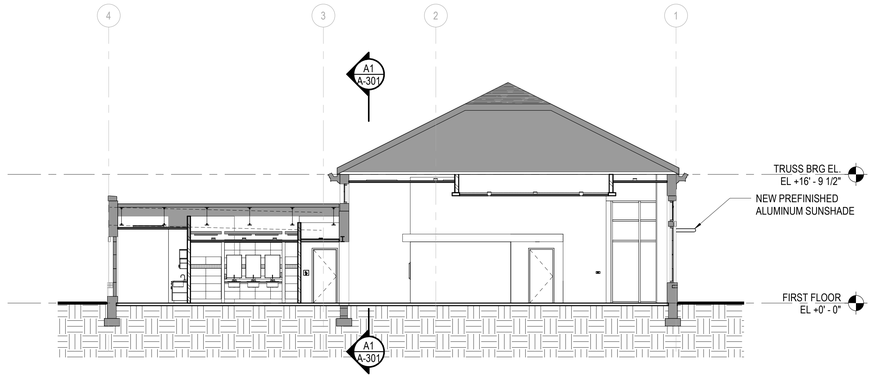
DRAWING
EXTERIOR ELEVATIONS

SHEET
A-202

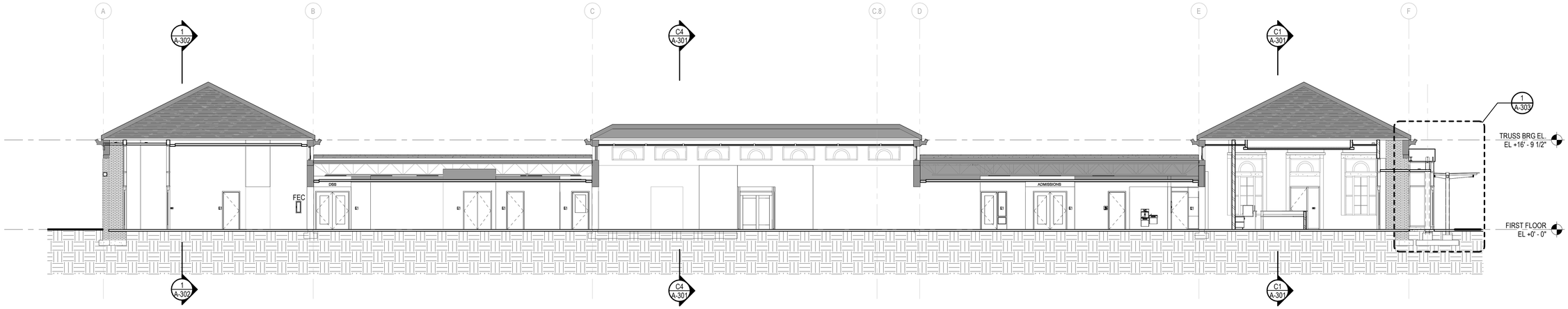
BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt
2/13/2023 5:30:45 PM



C1 A-301 BUILDING SECTION E-W AT WELCOME CENTER
SCALE: 1/8" = 1'-0"



C4 A-301 BUILDING SECTION E-W AT STUDENT LOBBY
SCALE: 1/8" = 1'-0"



A1 A-301 BUILDING SECTION N-S
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&CD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH D. LAYNARD
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

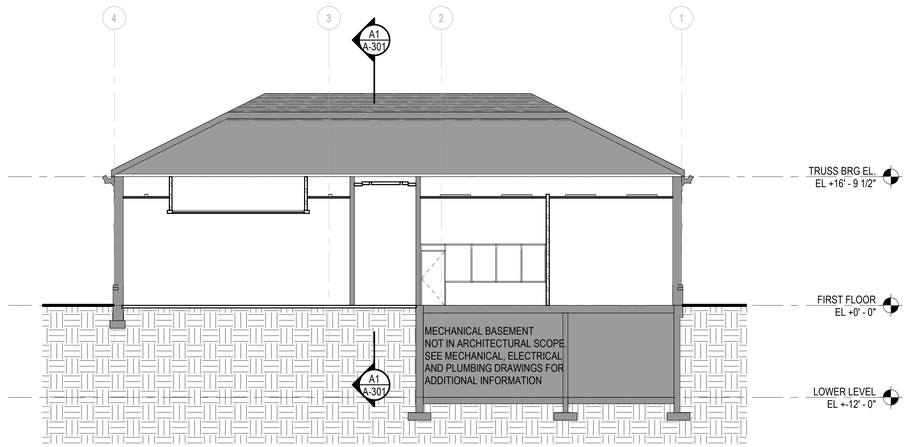
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
BUILDING SECTIONS

SHEET
A-301

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:25:30 PM



1 A-302 BUILDING SECTION E-W AT MULTI-PURPOSE STUDENT ROOM

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

USING AGENCY APPROVAL

Name: Date

Title: DGS APPROVAL

Project Manager: Date

Chief of FM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. WARD
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

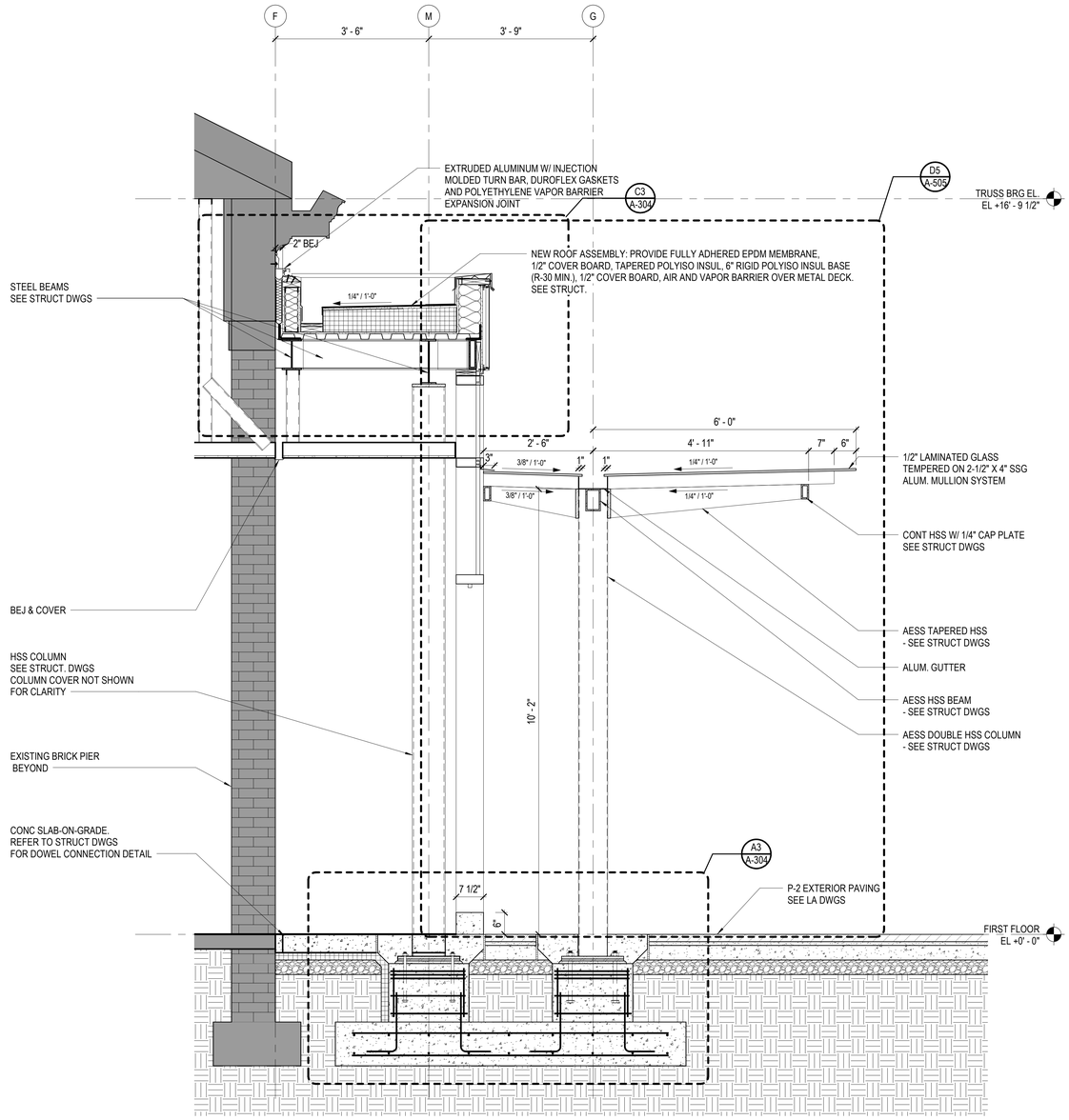
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
BUILDING SECTIONS

SHEET
A-302

BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt

12/9/2022 12:25:31 PM



1 A-303 WALL SECTION - VESTIBULE NORTH
SCALE: 3/4" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH A. MILLER
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

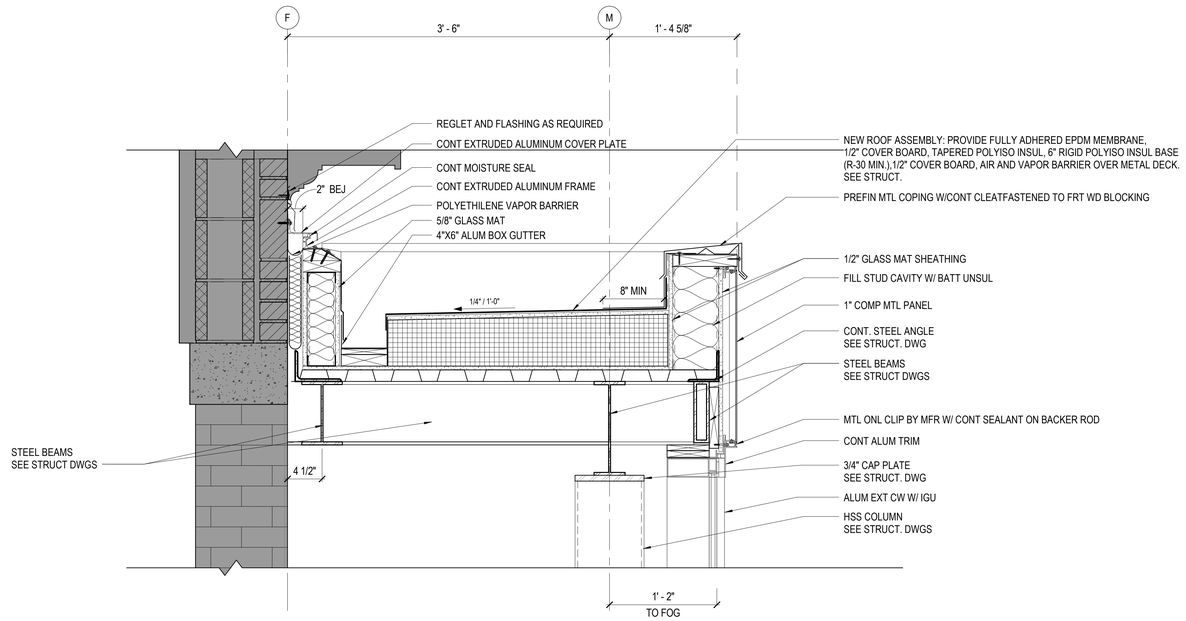
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

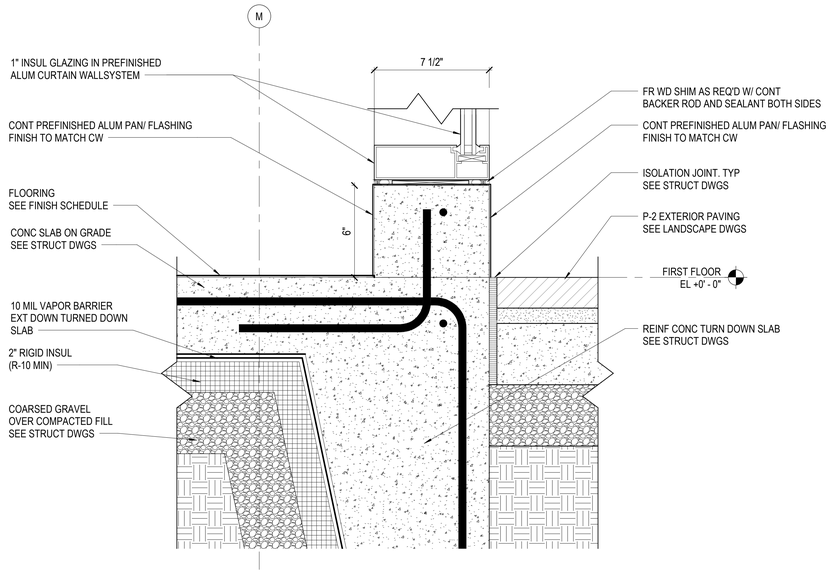
DRAWING
WALL SECTIONS

SHEET
A-303

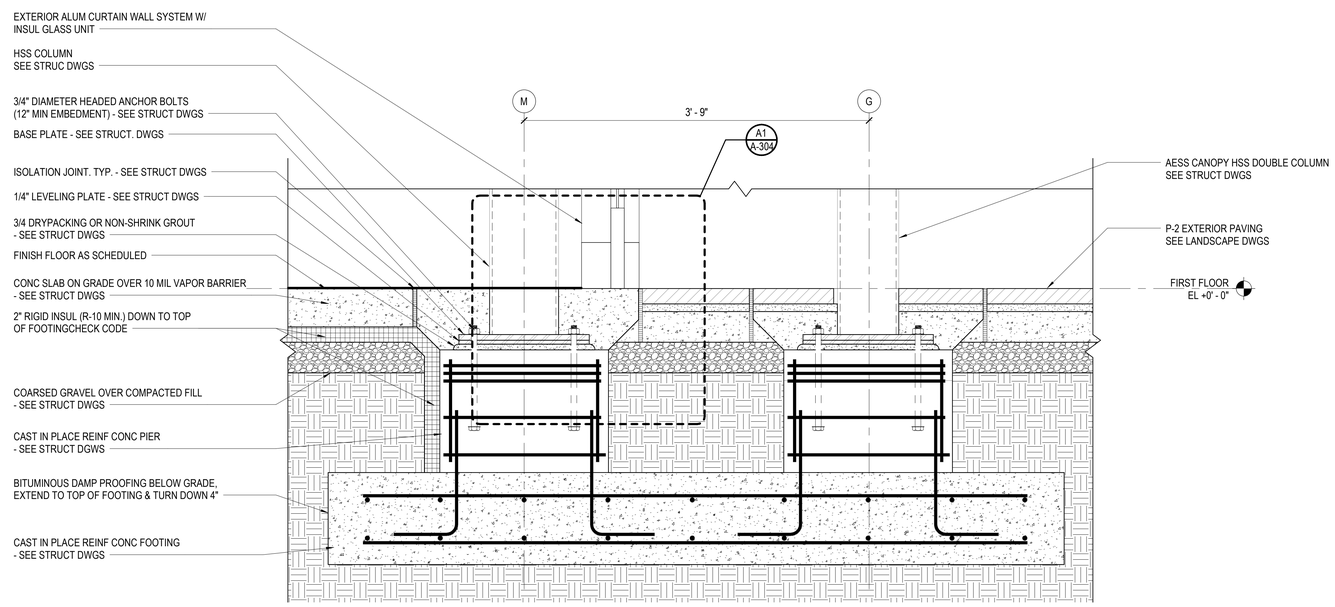
BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt
2/14/2023 12:17:06 PM



C3 / A-304 ENTRY VESTIBULE ROOF - SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



A1 / A-304 DETAIL AT CW SILL
SCALE: 3" = 1'-0"



A3 / A-304 WALL SECTION - VESTIBULE NORTH -PIERS
SCALE: 1 1/2" = 1'-0"

USING AGENCY APPROVAL

Name		Date
Title	DGS APPROVAL	
Project Manager		Date
Chief of FM&AD		Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT NO. 18831

PERMIT SET SUBMISSION

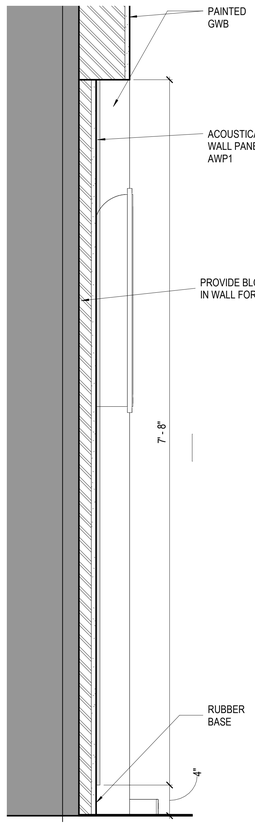
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

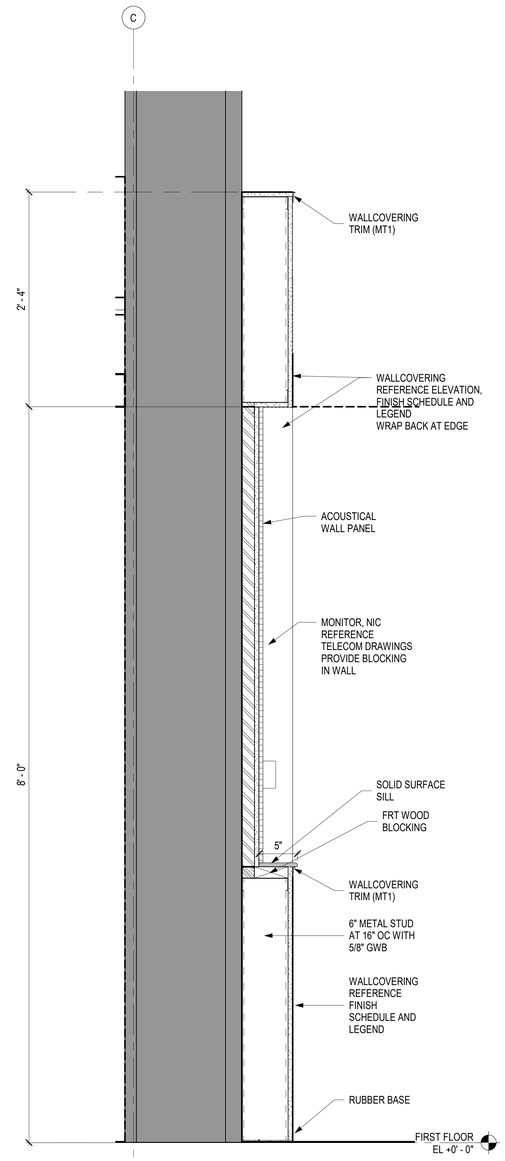
DRAWING
WALL SECTIONS - DETAILS

SHEET
A-304

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
2/14/2023 12:18:44 PM



A4 A-305 WC MONITOR WALL
SCALE: 1 1/2" = 1'-0"



A5 A-305 STUDENT LOBBY MONITOR WALL
SCALE: 1 1/2" = 1'-0"

USING AGENCY APPROVAL

Name	Date
Title: DGS APPROVAL	
Project Manager	Date
Chief of PM&AD	Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	
DRAWN	
CHECKED	

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT AD 18837
12/09/2022

PERMIT SET SUBMISSION

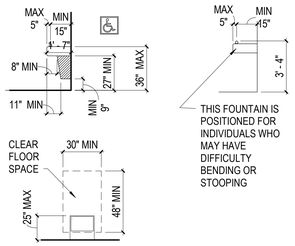
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

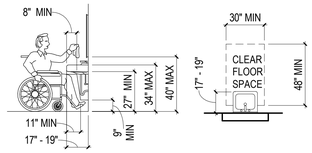
DRAWING
WALL SECTIONS - DETAILS

SHEET
A-305

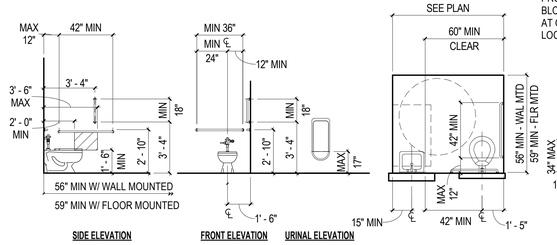
BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:25:34 PM



DRINKING FOUNTAINS AND WATER COOLERS

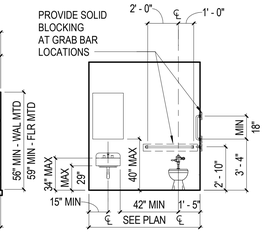


LAVATORY CLEARANCES

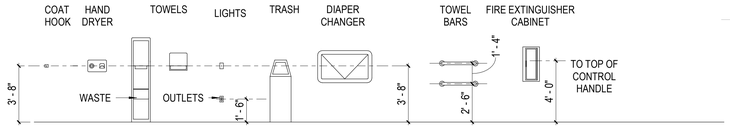


WATER CLOSET & TOILET ACCESSORIES

TYPICAL PLAN



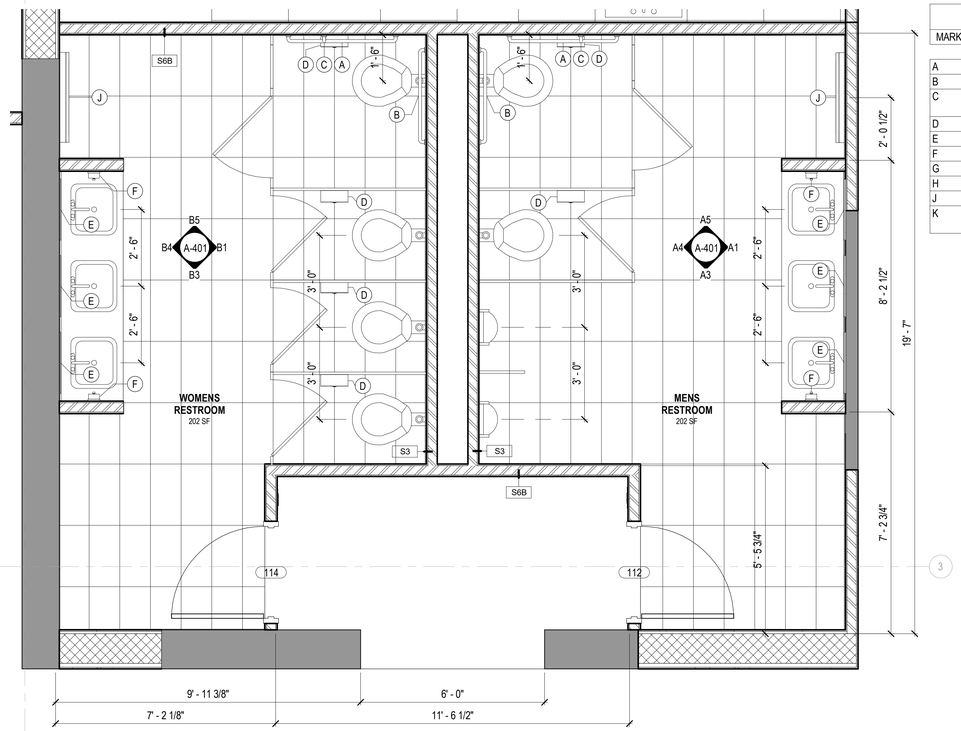
TYPICAL ELEVATION



MISCELLANEOUS FIXTURES AND ACCESSORIES

TYPICAL ACCESSIBILITY GUIDELINES

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



C3 A-401 RESTROOMS

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

TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MOUNTING HEIGHT	Model	REMARKS
A	42" GRAB BAR	CENTERLINE AT 2'-10" AFF	B-6806 X 42	1
B	36" GRAB BAR	CENTERLINE AT 2'-10" AFF	B-6806 X 36	2
C	18" VERTICAL GRAB BAR	BOTTOM OF RAIL AT 3" ABOVE HORIZONTAL GRAB BAR	B-6806 X 18	3
D	TOILET TISSUE DISPENSER		B-2890	
E	MIRROR 24" X 36"	BOTTOM OF REFLECTIVE SURFACE@ 40" AFF	B-290	
F	SOAP DISPENSER	BOTTOM OF DISPENSER AT 3'-8" AFF	B-2111	
G	PAPER TOWEL DISPENSER	BOTTOM OF DISPENSER AT 3'-8" AFF	B-359033	
H	SANITARY NAPKING DISPOSAL	TOP AT 2'-0" AFF	B-270	
J	BABY CHANGING STATION		KB200-05SS	
K	Bobrick B-239 Utility Shelf with Rag Hooks and Broom Holders		B-239	

GENERAL NOTES

A. TOILET ACCESSORY ITEMS ARE IDENTIFIED BY SYMBOL (X) ON PLANS, LETTERS CORRESPOND TO SCHEDULE ABOVE.

B. REFER TO CASEWORK SHEET Axxx FOR ADDITIONAL TOILET ACCESSORIES REQUIRED AS PART OF WORK.

C. GRAB BARS AND ACCESSORIES TO BE MOUNTED IN ACCORDANCE WITH ANSI, 2003.

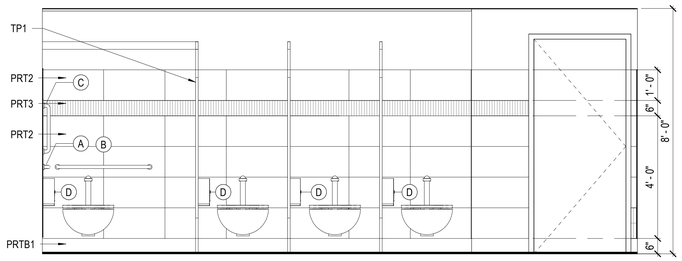
D. REFER TO SPEC SECTION 102800 FOR ALL ACCESSORY DESCRIPTIONS.

E. ACTUAL DIMENSIONS MAY VERY WITH APPROVED MANUFACTURER. COORDINATE ALL REVISIONS AS REQUIRED.

F. PROVIDE BLOCKING FOR TOILET ACCESSORIES.

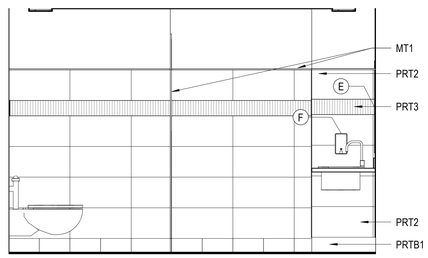
PLAN NOTES

1. MOUNT GRAB BAR ON WALL OR TOILET PARTITION AS INDICATED, 12" CLEAR OF WALL WHICH RUNS BEHIND WATER CLOSET.
2. MOUNT GRAB BAR CLEAR OF TANK/FLUSH VALVE. HEIGHT MY NEED TO BE DIFFERENT THAN INDICATED IN SCHEDULE. COORDINATE WITH PLUMBING
3. MOUNT BOTTOM OF VERTICAL GRAB BAR 3" ABOVE HORIZONTAL GRAB BAR.



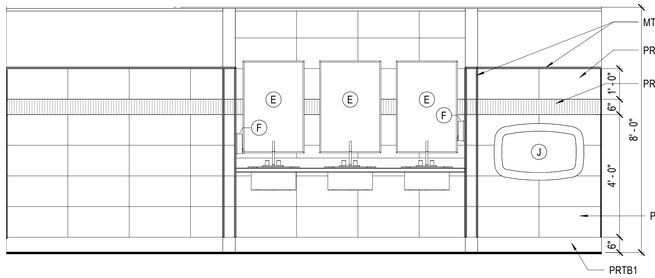
B1 A-401 WOMENS RESTROOM NORTH

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



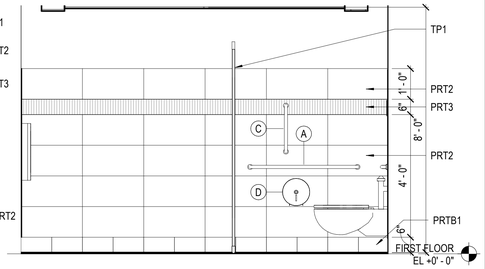
B3 A-401 WOMENS RESTROOM EAST

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



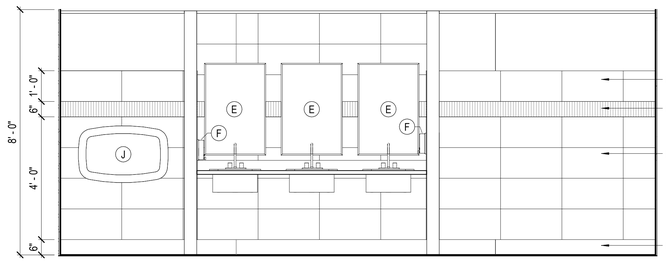
B4 A-401 WOMENS RESTROOM SOUTH

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



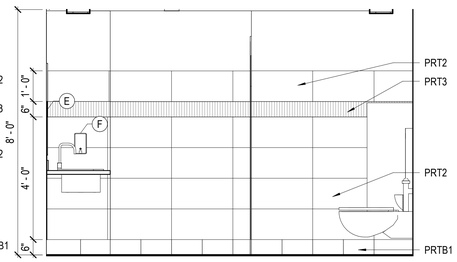
B5 A-401 WOMENS RESTROOM WEST

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



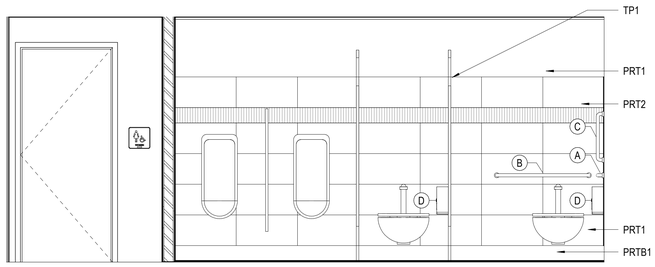
A1 A-401 MENS RESTROOM NORTH

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



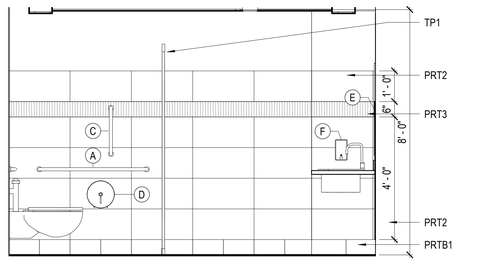
A3 A-401 MENS RESTROOM EAST

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



A4 A-401 MENS RESTROOM SOUTH

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



A5 A-401 MENS RESTROOM WEST

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

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&AD: Date:

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH M. CLAPP No. 18837 ARCHITECT 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

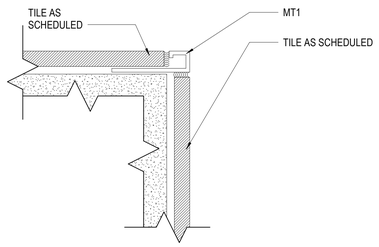
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ENLARGED TOILET PLANS AND ELEVATIONS

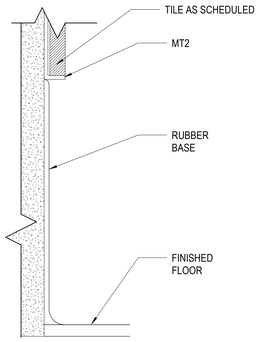
SHEET
A-401

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

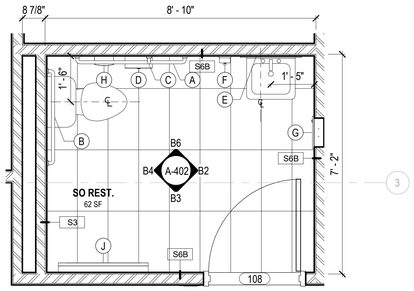
12/9/2022 12:25:37 PM



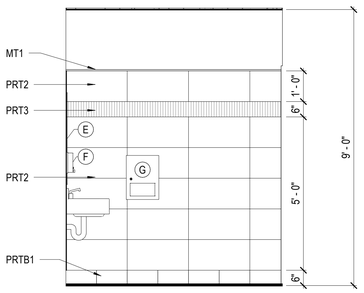
C1 A-402 TILE OUTSIDE CORNER DETAIL
SCALE: 12" = 1'-0"



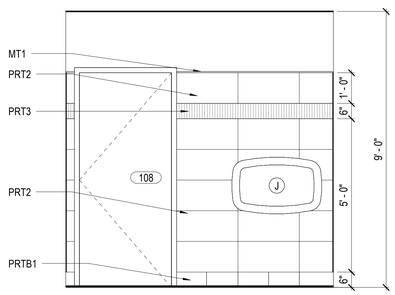
C2 A-402 TILE TO RUBBER BASE DETAIL
SCALE: 12" = 1'-0"



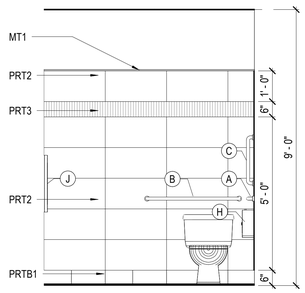
B1 A-402 ALL GENDER - WEST
SCALE: 1/2" = 1'-0"



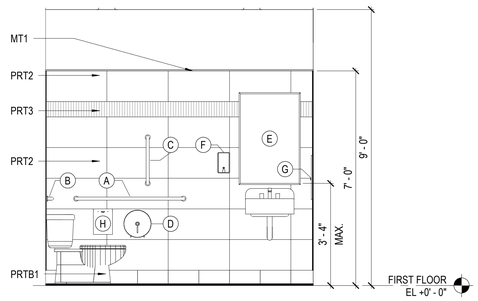
B2 A-402 ALL GENDER WEST - NORTH
SCALE: 1/2" = 1'-0"



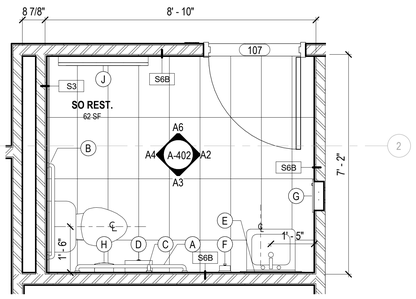
B3 A-402 ALL GENDER WEST - EAST
SCALE: 1/2" = 1'-0"



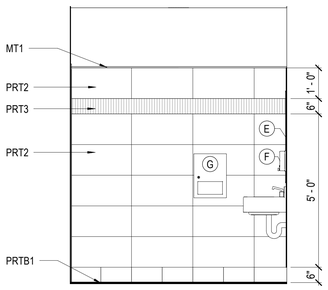
B4 A-402 ALL GENDER WEST - SOUTH
SCALE: 1/2" = 1'-0"



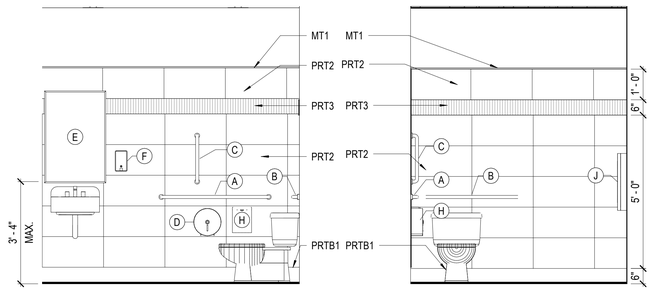
B6 A-402 ALL GENDER WEST - WEST
SCALE: 1/2" = 1'-0"



A1 A-402 ALL GENDER - EAST
SCALE: 1/2" = 1'-0"

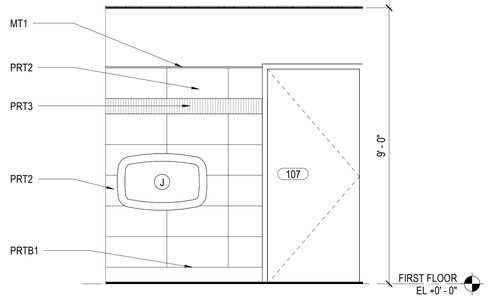


A2 A-402 ALL GENDER EAST - NORTH
SCALE: 1/2" = 1'-0"



A3 A-402 ALL GENDER EAST - EAST
SCALE: 1/2" = 1'-0"

A4 A-402 ALL GENDER EAST - SOUTH
SCALE: 1/2" = 1'-0"



A6 A-402 ALL GENDER EAST - WEST
SCALE: 1/2" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH W. RAYNER No. 18837 ARCHITECT 12/9/2022

PERMIT SET SUBMISSION

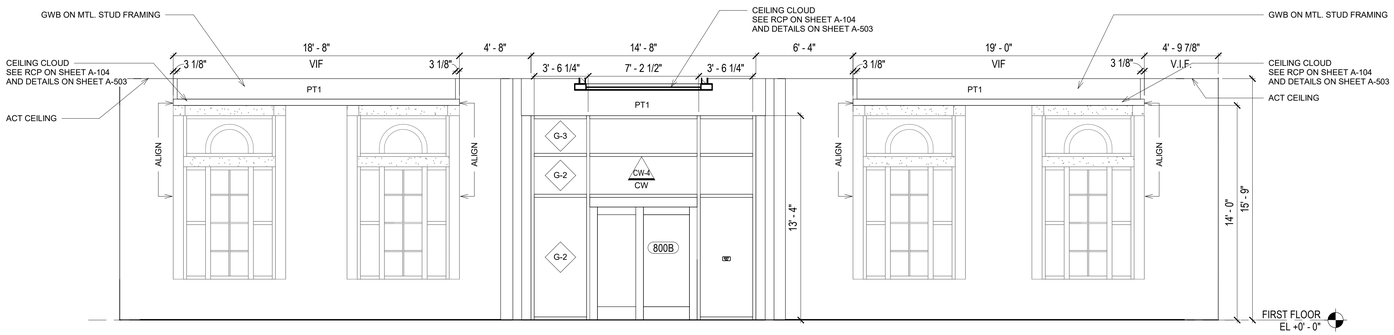
MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

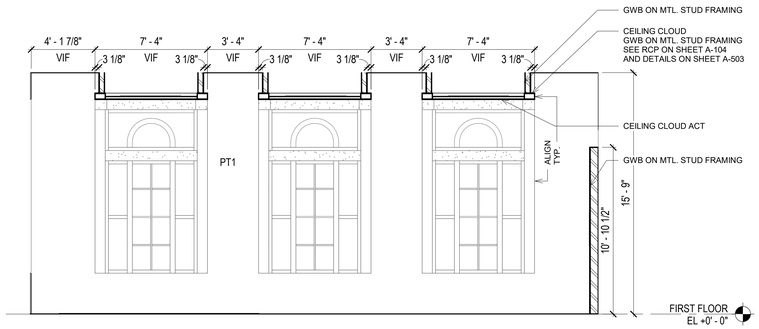
DRAWING ENLARGED TOILET PLANS AND ELEVATIONS

SHEET A-402

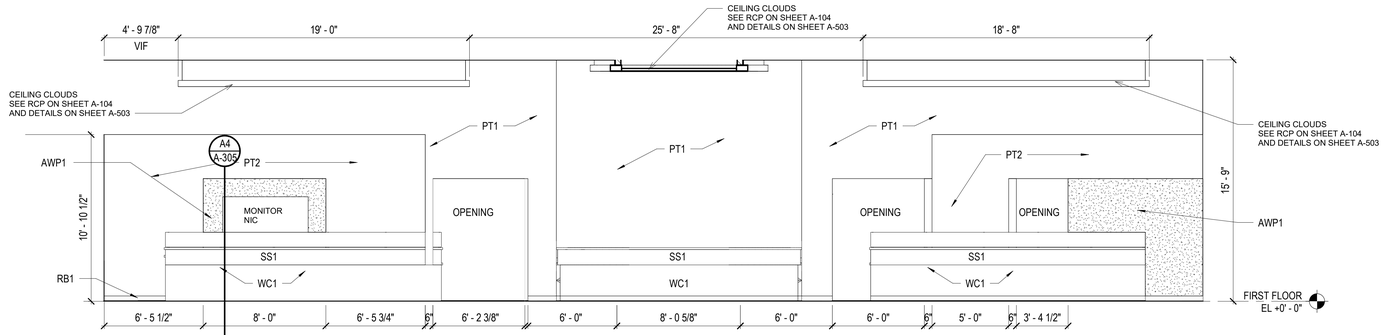
12/9/2022 12:25:41 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt



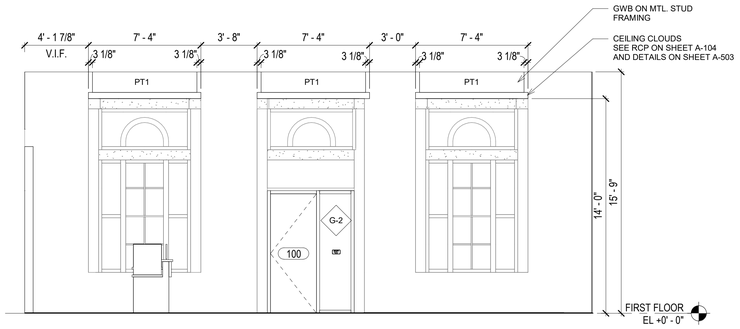
E1 A-405 WELCOME CENTER LOBBY - NORTH
SCALE: 1/4" = 1'-0"



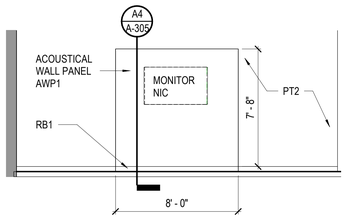
E5 A-405 WELCOME CENTER LOBBY - EAST
SCALE: 1/4" = 1'-0"



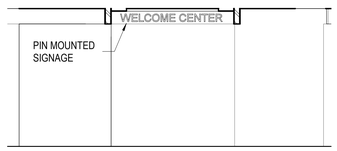
C1 A-405 WELCOME CENTER LOBBY - SOUTH
SCALE: 1/4" = 1'-0"



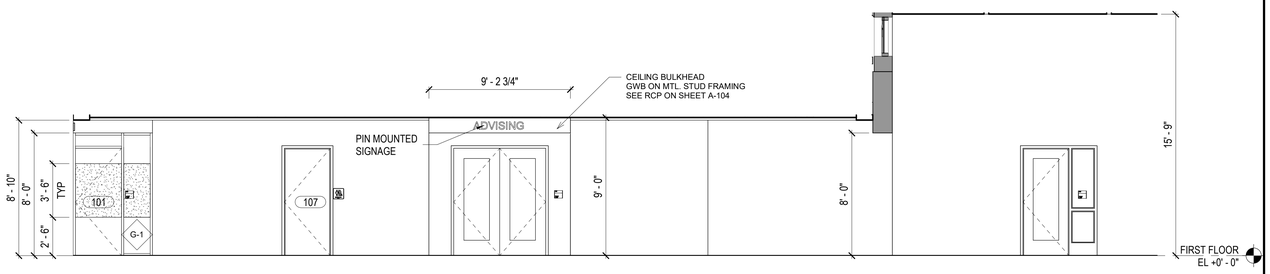
C5 A-405 WELCOME CENTER LOBBY - WEST
SCALE: 1/4" = 1'-0"



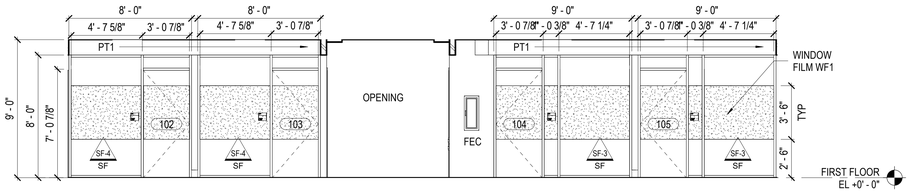
B1 A-405 MONITOR WALL - WELCOME CENTER
SCALE: 1/4" = 1'-0"



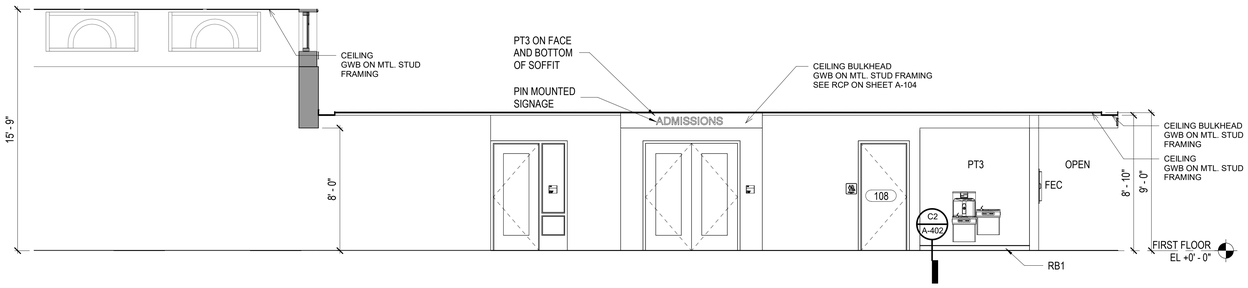
B2 A-405 FLEX MEETING ROOMS - NORTH
SCALE: 1/4" = 1'-0"



B3 A-405 FLEX MEETING ROOM - EAST
SCALE: 1/4" = 1'-0"



A1 A-405 FLEX MEETING ROOMS - SOUTH
SCALE: 1/4" = 1'-0"



A3 A-405 FLEX MEETING ROOMS - WEST
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL

Name | Date
Title | DGS APPROVAL | Date
Project Manager | Date
Chief of PM&AD

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
REGISTERED
MARYLAND
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

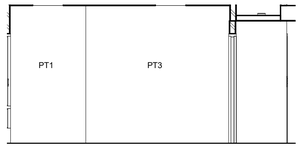
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
INTERIOR ELEVATIONS

SHEET
A-405

12/9/2022 12:25:44 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

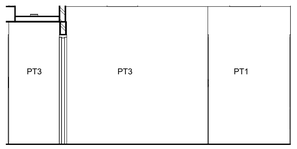


E1 A-406 ADMISSIONS SUITE - NORTH
SCALE: 1/4" = 1'-0"

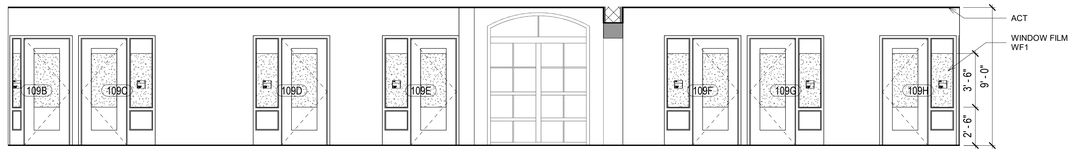
E2 A-406 ADMISSIONS SUITE - EAST
SCALE: 1/4" = 1'-0"

E4 A-406 ADMISIONS SUITE SOUTH
SCALE: 1/4" = 1'-0"

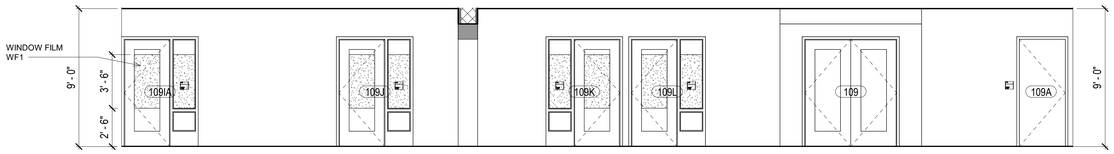
E5 A-406 ADMISSIONS SUITE - WEST
SCALE: 1/4" = 1'-0"



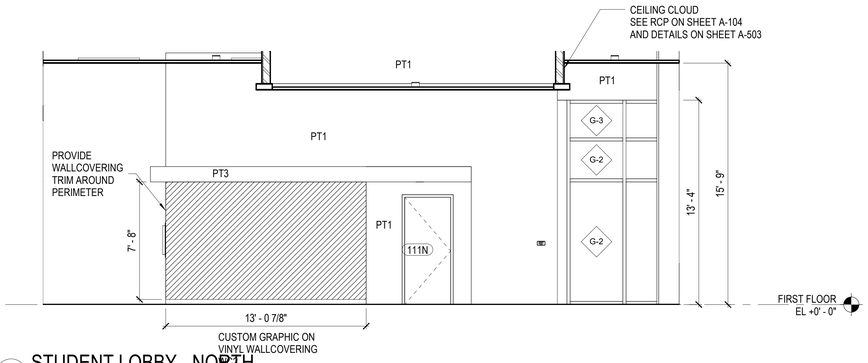
D1 A-406 ADVISING SUITE - NORTH
SCALE: 1/4" = 1'-0"



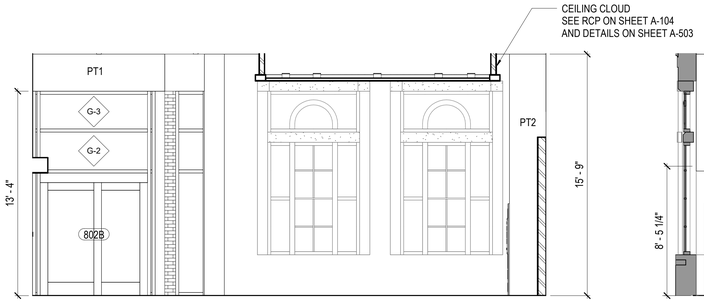
D2 A-406 ADVISING SUITE - EAST
SCALE: 1/4" = 1'-0"



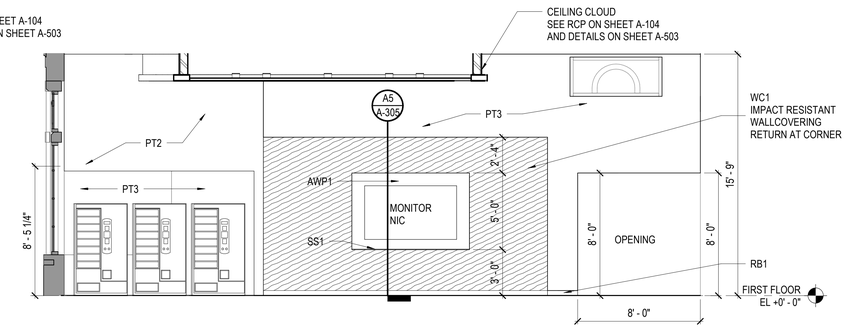
B1 A-406 ADVISING SUITE - WEST
SCALE: 1/4" = 1'-0"



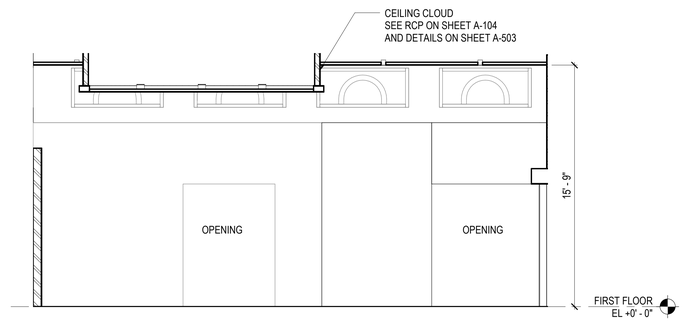
B4 A-406 STUDENT LOBBY - NORTH
SCALE: 1/4" = 1'-0"



A1 A-406 STUDENT LOBBY - EAST
SCALE: 1/4" = 1'-0"



A3 A-406 STUDENT LOBBY - SOUTH
SCALE: 1/4" = 1'-0"



A5 A-406 STUDENT LOBBY - WEST
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL
Name | Date
Title
DGS APPROVAL
Project Manager | Date
Chief of FM&AD | Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
MATTHEW H. MANARO
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

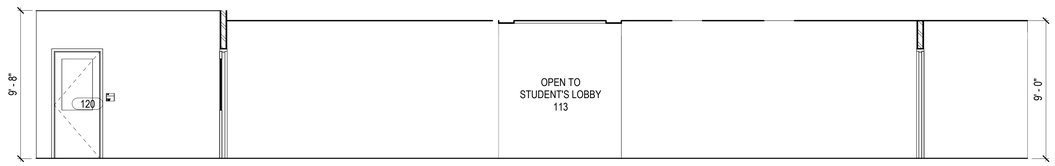
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

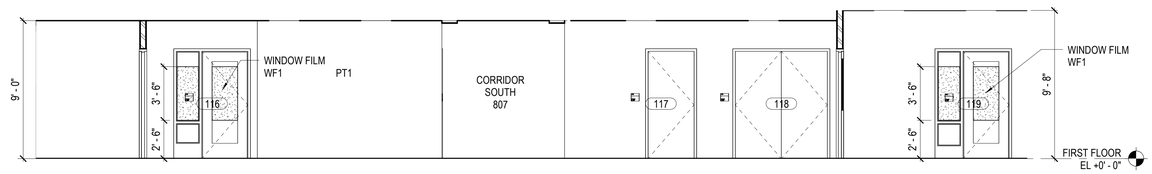
DRAWING
INTERIOR ELEVATIONS

SHEET
A-406

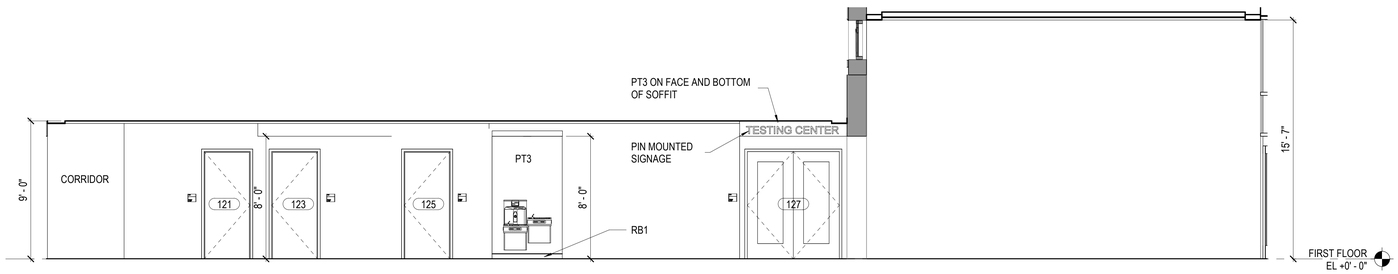
12/9/2022 12:25:46 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt



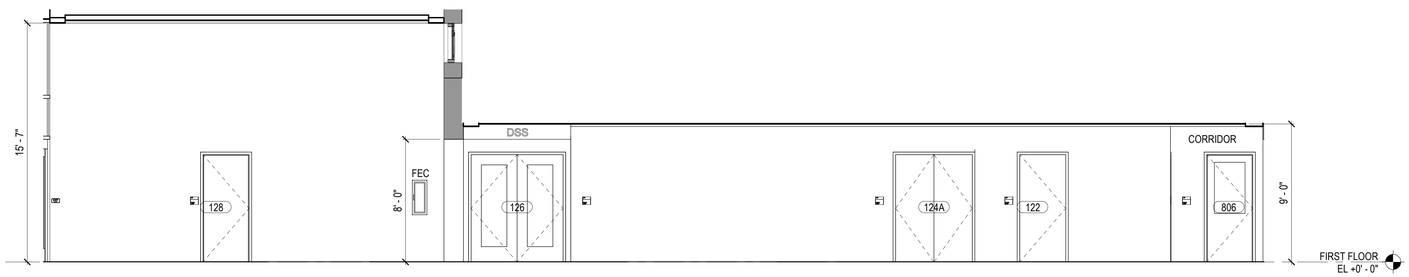
E1 A-407 CORRIDOR - NORTH
SCALE: 1/4" = 1'-0"



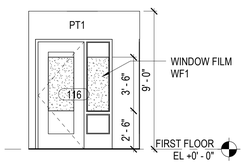
E4 A-407 CORRIDOR - SOUTH
SCALE: 1/4" = 1'-0"



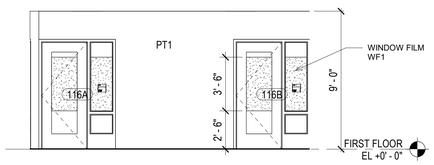
C1 A-407 CORRIDOR - EAST
SCALE: 1/4" = 1'-0"



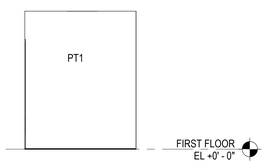
B1 A-407 CORRIDOR - WEST
SCALE: 1/4" = 1'-0"



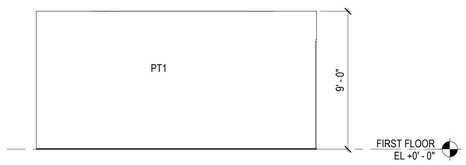
A1 A-407 COUNCELOR'S VESTIBULE - NORTH
SCALE: 1/4" = 1'-0"



A2 A-407 COUNSELOR'S VESTIBULE - EAST
SCALE: 1/4" = 1'-0"



A3 A-407 COUNSELOR'S VESTIBULE - SOUTH
SCALE: 1/4" = 1'-0"



A5 A-407 COUNSELOR'S VESTIBULE - WEST
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of P&A/ED Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH D. LAMBARD
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

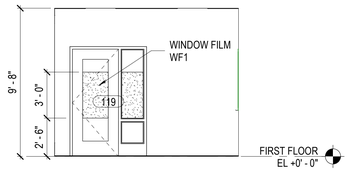
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

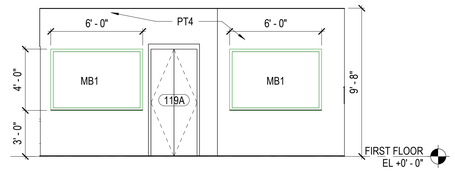
DRAWING
INTERIOR ELEVATIONS

SHEET
A-407

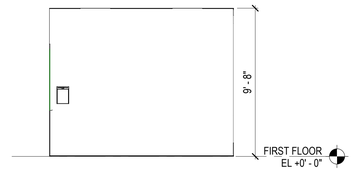
BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:25:49 PM



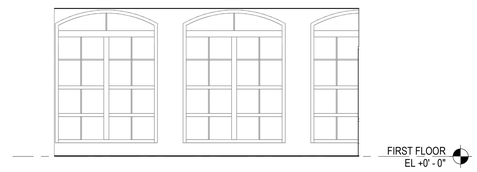
E1 A-408 MEETING/ CONFERENCE - NORTH
SCALE: 1/4" = 1'-0"



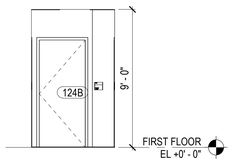
E2 A-408 MEETING/ CONFERENCE - EAST
SCALE: 1/4" = 1'-0"



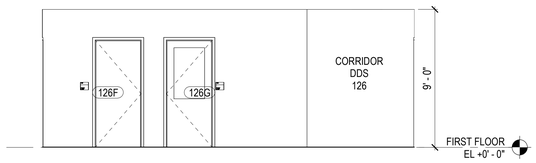
E3 A-408 MEETING/ CONFERENCE - SOUTH
SCALE: 1/4" = 1'-0"



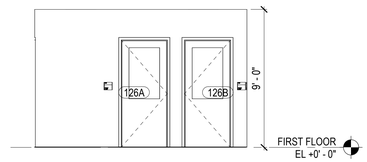
E5 A-408 MEETING/ CONFERENCE - WEST
SCALE: 1/4" = 1'-0"



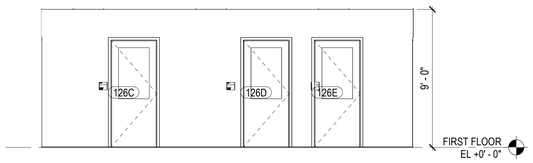
D1 A-408 DSS - NORTH
SCALE: 1/4" = 1'-0"



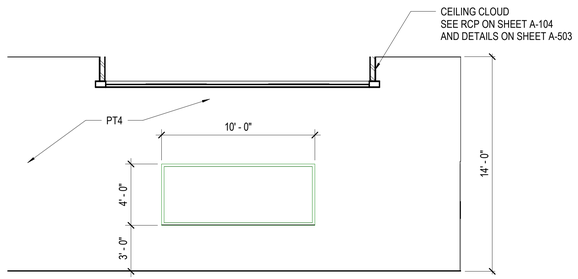
D2 A-408 DSS - EAST
SCALE: 1/4" = 1'-0"



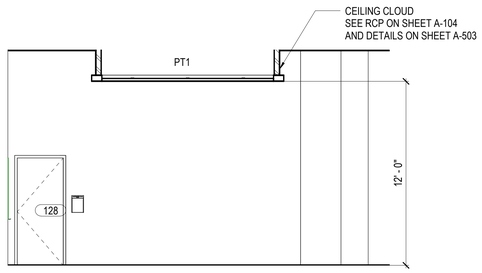
D3 A-408 DSS - SOUTH
SCALE: 1/4" = 1'-0"



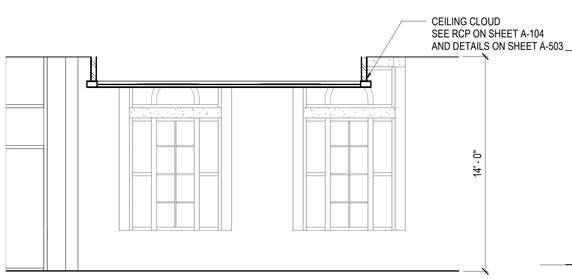
D5 A-408 DSS - WEST
SCALE: 1/4" = 1'-0"



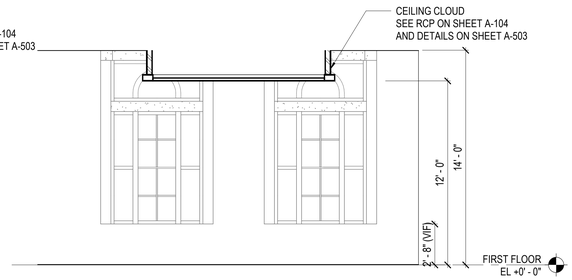
B1 A-408 MULTI-PURPOSE ROOM - NORTH
SCALE: 1/4" = 1'-0"



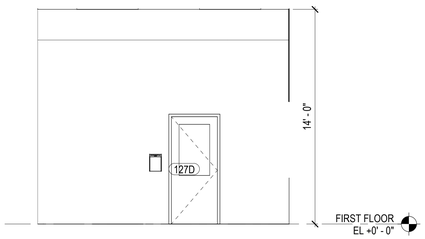
B2 A-408 MULTI-PURPOSE ROOM - EAST
SCALE: 1/4" = 1'-0"



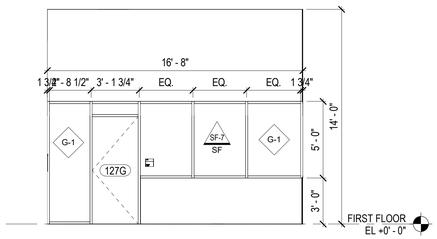
B3 A-408 MULTI-PURPOSE ROOM - SOUTH
SCALE: 1/4" = 1'-0"



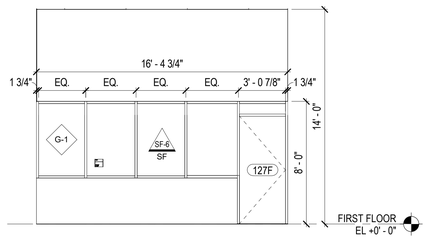
B5 A-408 MULTI-PURPOSE ROOM - WEST
SCALE: 1/4" = 1'-0"



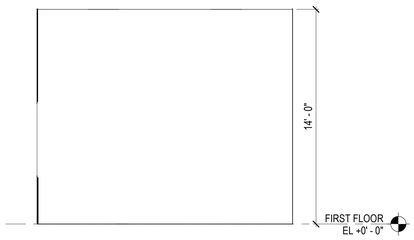
A1 A-408 TESTING CHECK IN - NORTH
SCALE: 1/4" = 1'-0"



A2 A-408 TESTING CHECK IN - EAST
SCALE: 1/4" = 1'-0"



A3 A-408 TESTING CHECK IN - SOUTH
SCALE: 1/4" = 1'-0"



A5 A-408 TESTING CHECK IN - WEST
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&CD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. RAST
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

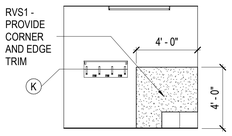
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

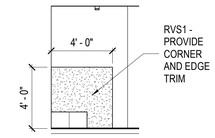
DRAWING
INTERIOR ELEVATIONS

SHEET
A-408

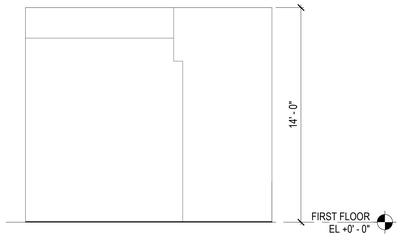
12/9/2022 12:25:51 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt



D1 A-409 ELEVATION - CUSTODIAL
SCALE: 1/4" = 1'-0"

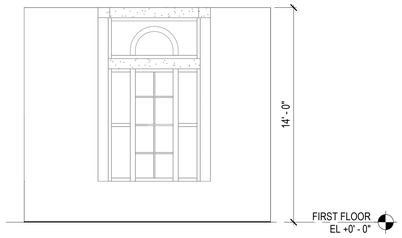


D2 A-409 ELEVATION - CUSTODIAL NORTH
SCALE: 1/4" = 1'-0"

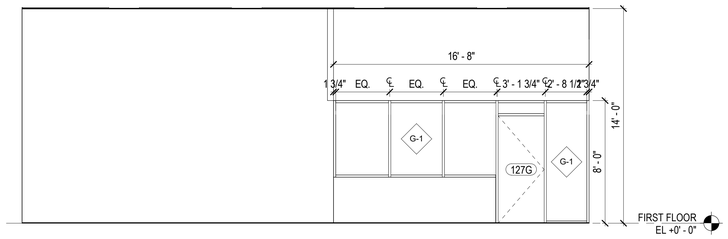


C1 A-409 TESTING ROOM 1 - NORTH
SCALE: 1/4" = 1'-0"

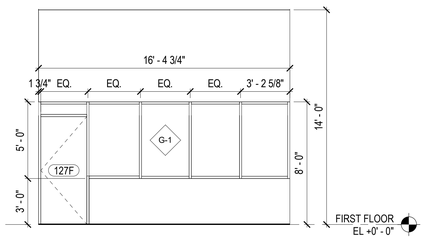
C2 A-409 TESTING ROOM 1 - EAST
SCALE: 1/4" = 1'-0"



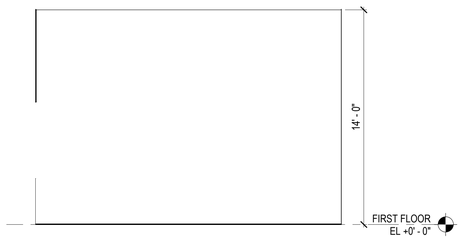
C5 A-409 TESTING ROOM 1 - SOUTH
SCALE: 1/4" = 1'-0"



B1 A-409 TESTING ROOM 1 - WEST
SCALE: 1/4" = 1'-0"



A1 A-409 TESTING ROOM 2 - NORTH
SCALE: 1/4" = 1'-0"



A2 A-409 TESTING ROOM 2 - EAST
SCALE: 1/4" = 1'-0"

A4 A-409 TESTING ROOM 2 - SOUTH
SCALE: 1/4" = 1'-0"

A5 A-409 TESTING ROOM 2 - WEST
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of P&A/ED: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. RAST
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

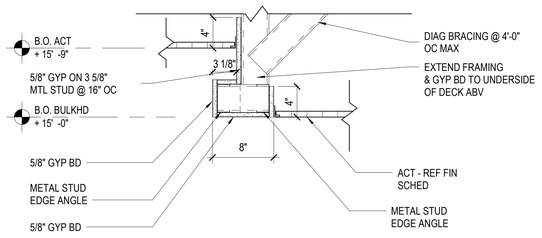
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

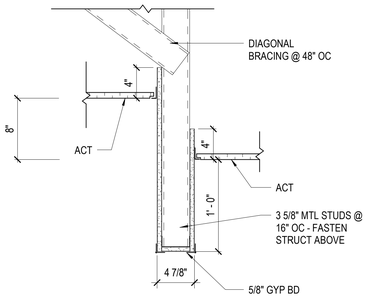
DRAWING
INTERIOR ELEVATIONS

SHEET
A-409

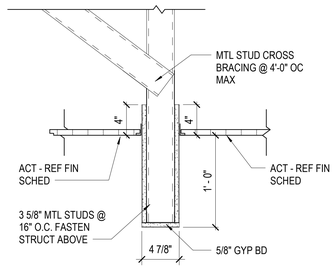
BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:25:53 PM



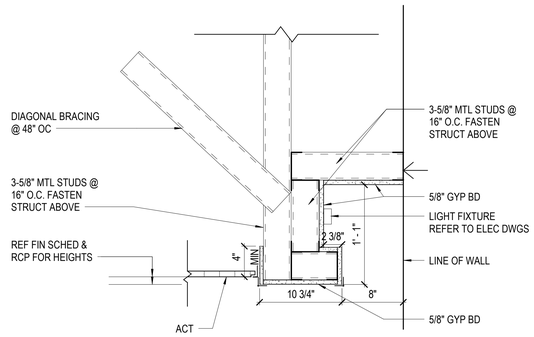
B1 A-503 CEILING DETAIL - DETAIL @ CEILING CLOUD WC ELLIPSE
SCALE: 1 1/2" = 1'-0"



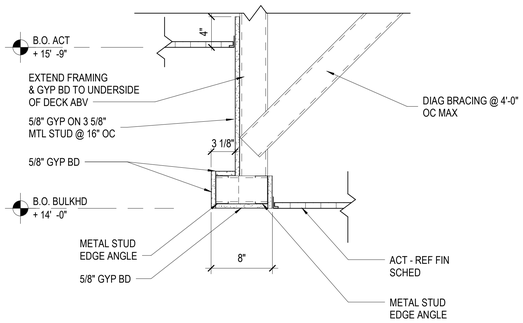
B3 A-503 CEILING DETAIL - ACT EA SIDE UNEVEN
SCALE: 1 1/2" = 1'-0"



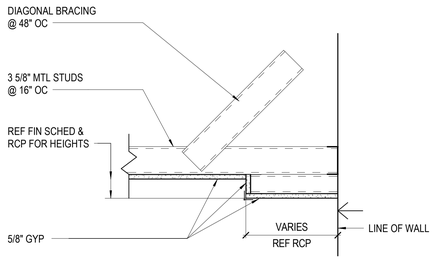
B4 A-503 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



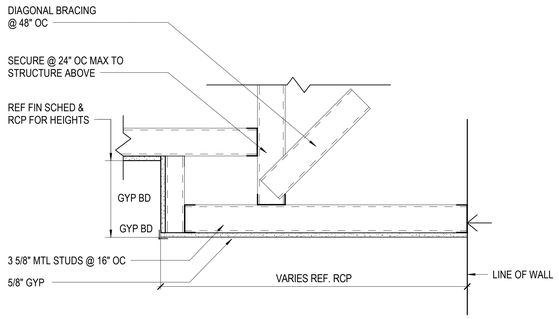
B6 A-503 CEILING DETAIL - COVE DETAIL - RESTROOMS
SCALE: 1 1/2" = 1'-0"



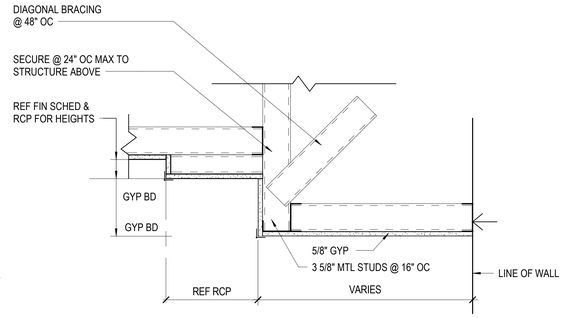
A1 A-503 CEILING DETAIL - DETAIL @ CEILING CLOUD
SCALE: 1 1/2" = 1'-0"



A3 A-503 CEILING DETAIL - TYP SOFFIT TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"



A4 A-503 CEILING DETAIL - SOFFIT TRANSITION DETAIL @ SUITES
SCALE: 1 1/2" = 1'-0"



A6 A-503 CEILING DETAIL - SOFFIT TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. WOLFE
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

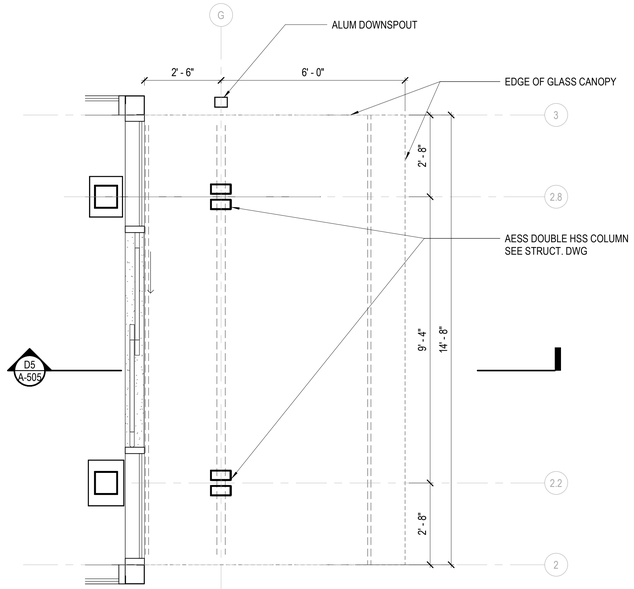
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

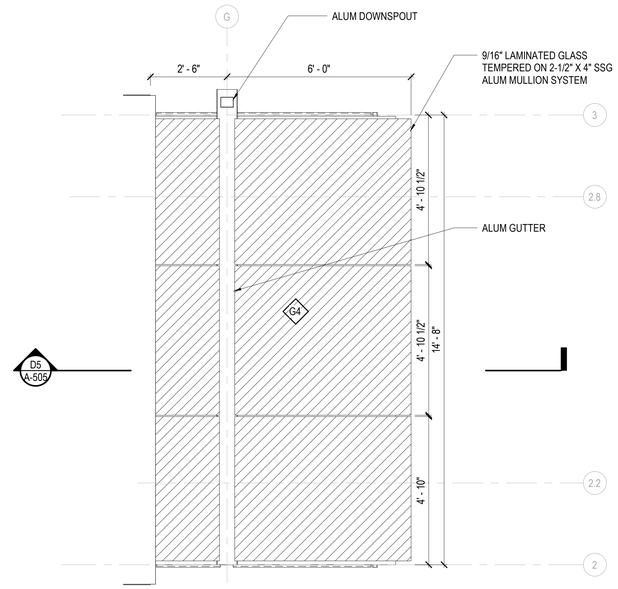
DRAWING
CEILING DETAILS

SHEET
A-503

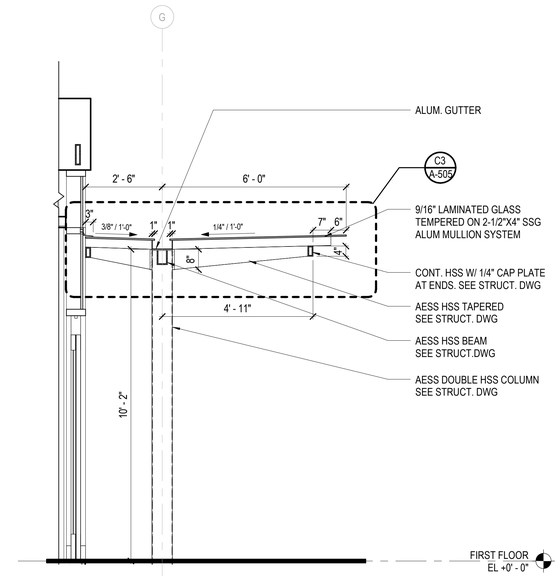
BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
2/14/2023 12:33:11 PM



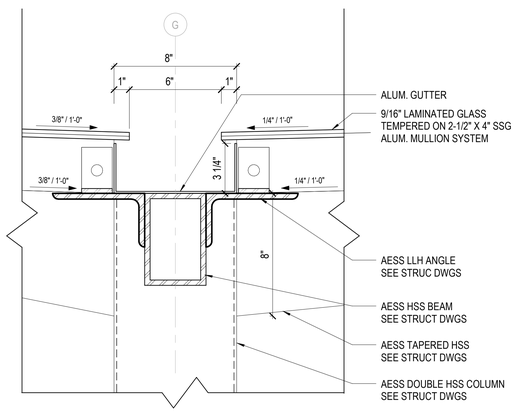
D1 A-505 CANOPY NORTH - PLAN
SCALE: 1/2" = 1'-0"



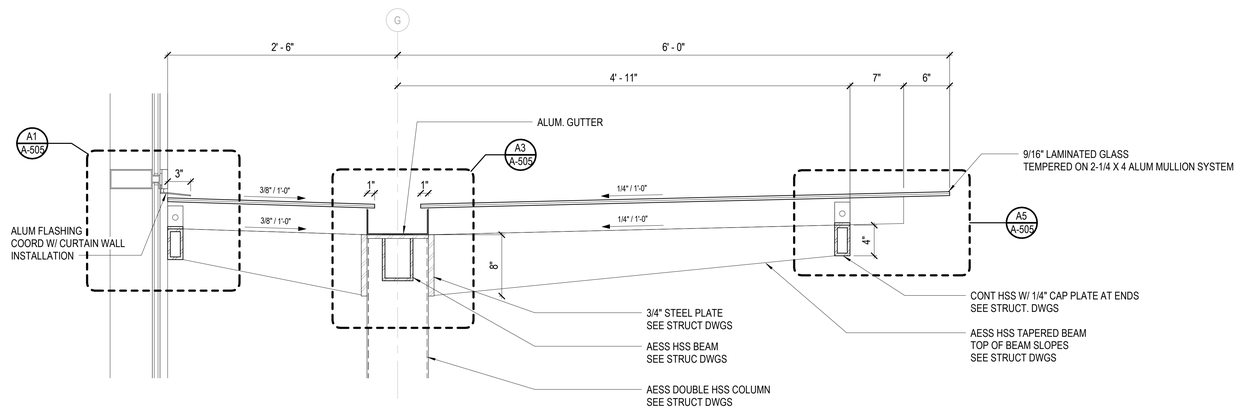
D3 A-505 CANOPY NORTH - ROOF PLAN
SCALE: 1/2" = 1'-0"



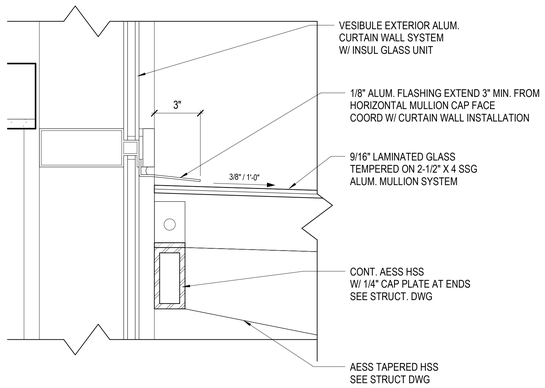
D5 A-505 GLASS CANOPY NORTH - SECTION
SCALE: 1/2" = 1'-0"



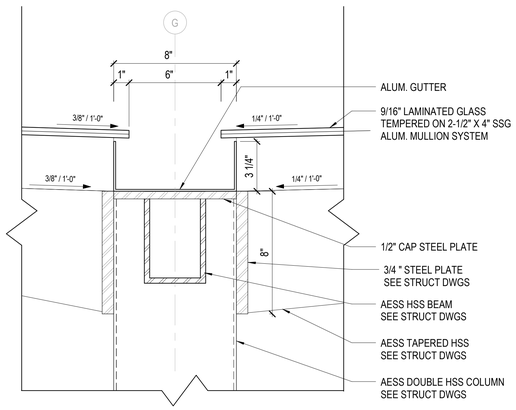
C1 A-505 CANOPY DETAIL AT GUTTER
SCALE: 3" = 1'-0"



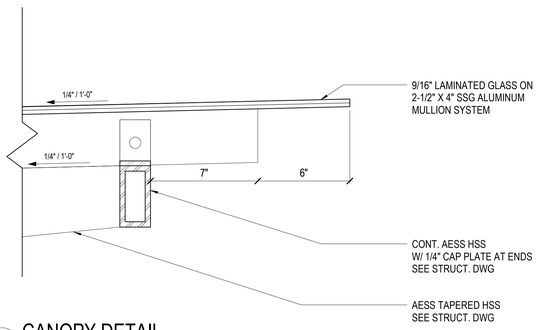
C3 A-505 CANOPY DETAIL - TOP
SCALE: 1 1/2" = 1'-0"



A1 A-505 CANOPY DETAIL
SCALE: 3" = 1'-0"



A3 A-505 CANOPY DETAIL AT GUTTER
SCALE: 3" = 1'-0"



A5 A-505 CANOPY DETAIL
SCALE: 3" = 1'-0"

USING AGENCY APPROVAL

Name	Date	Title	Date
		DGS APPROVAL	
		Project Manager	Date
		Chief of M&A/D	Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH M. WOLFE
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

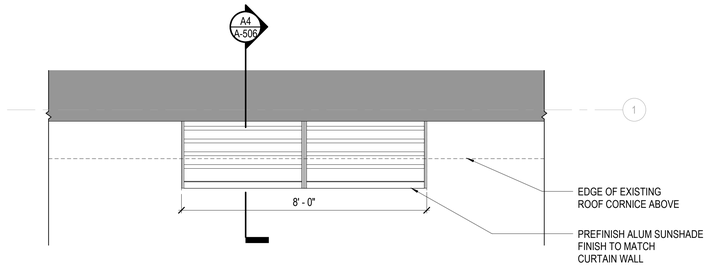
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

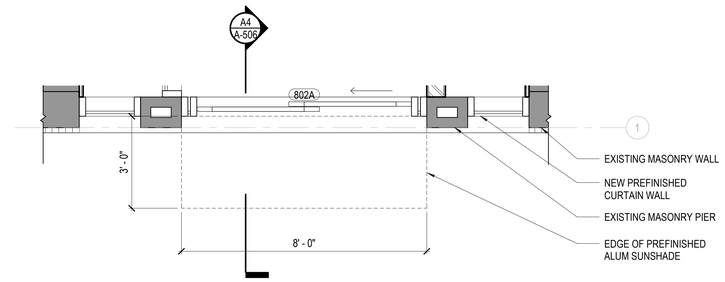
DRAWING
CANOPY NORTH - DETAILS

SHEET
A-505

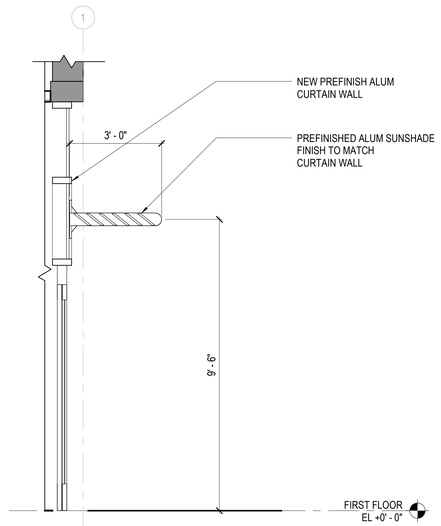
BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:35:58 PM



E4 A-506 SUNSHADE EAST - ROOF PLAN
SCALE: 1/2" = 1'-0"



C4 A-506 SUNSHADE EAST - PLAN
SCALE: 1/2" = 1'-0"



A4 A-506 GLASS CANOPY EAST - SECTION
SCALE: 1/2" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH D. LAMARD
No. 18837
ARCHITECT
12/09/2022

PERMIT SET SUBMISSION

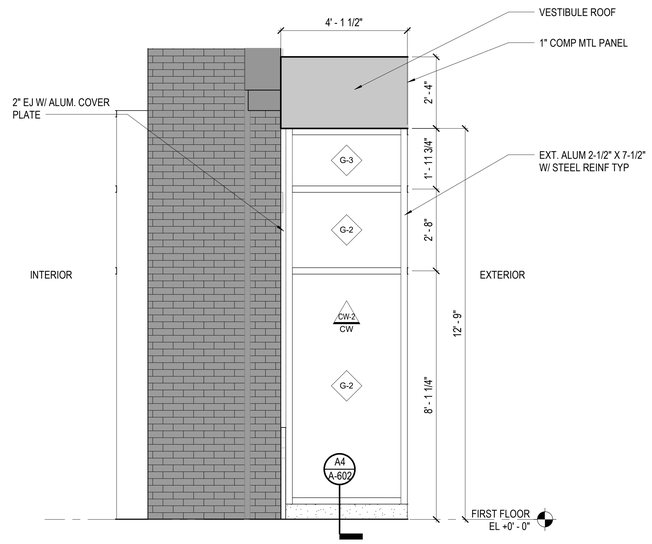
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
SUNSHADE EAST - DETAILS

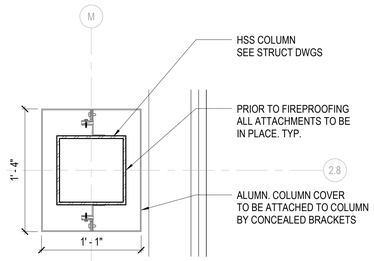
SHEET
A-506

12/9/2022 12:25:57 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

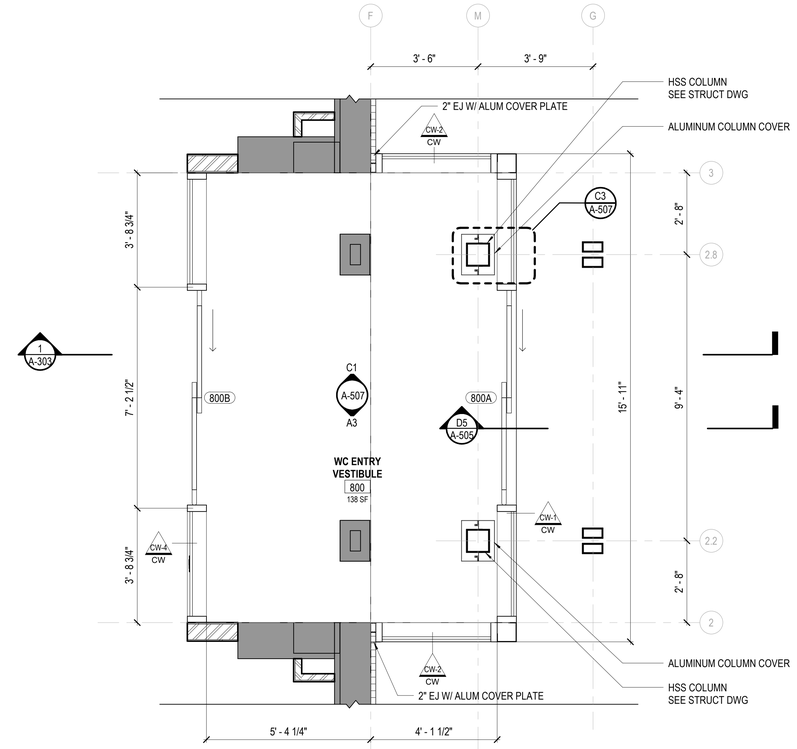


C1 A-507 VESTIBULE NORTH - WEST
SCALE: 1/2" = 1'-0"

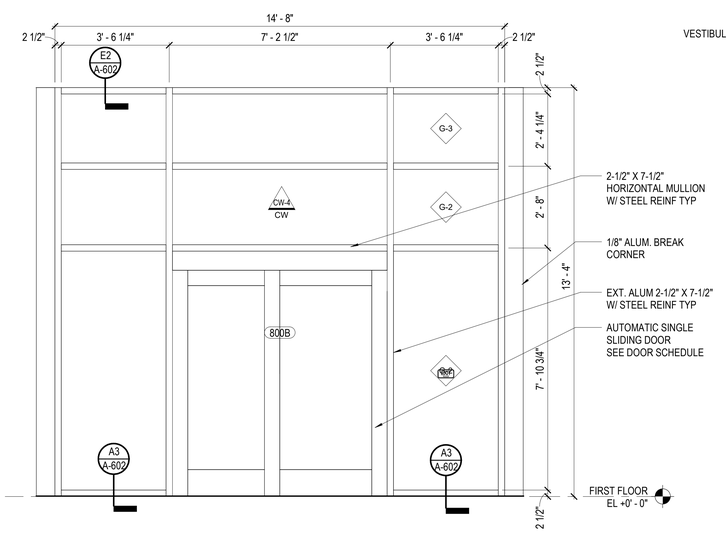
NOTE: VESTIBULE EXTERIOR COLUMN AND COLUMN COVER NOT SHOWN FOR CLARITY



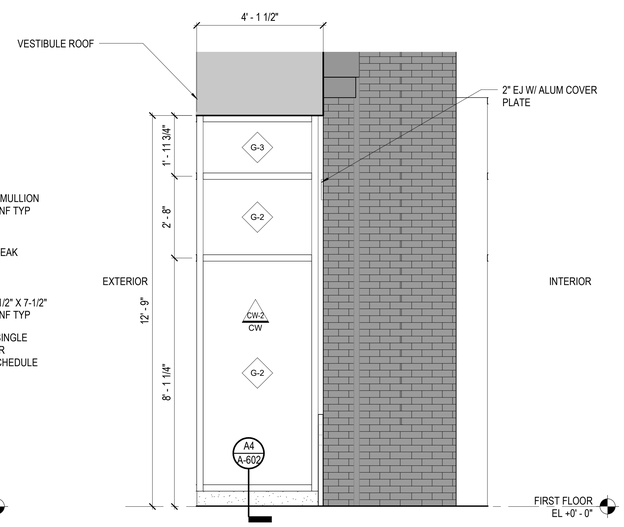
C3 A-507 COLUMN COVER - PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



C4 A-507 ENLARGED PLAN VESTIBULE NORTH
SCALE: 1/2" = 1'-0"

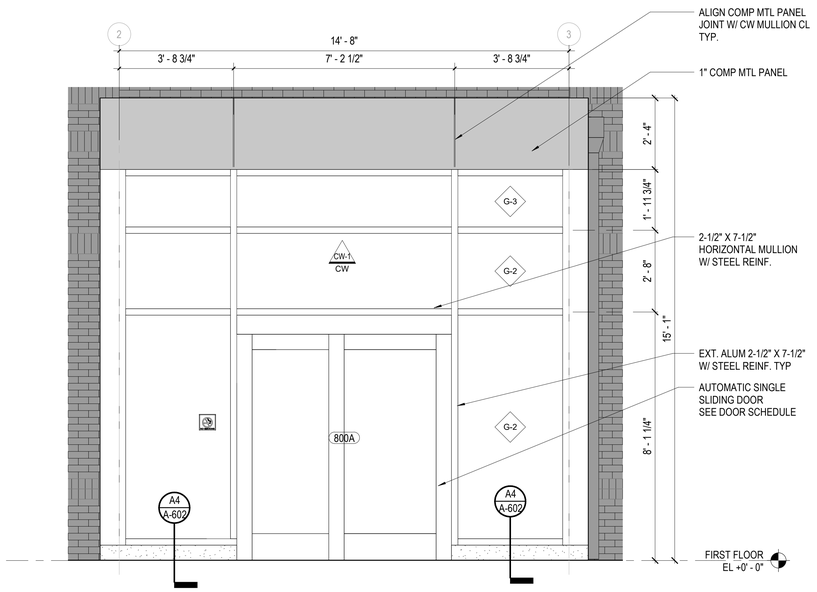


A1 A-507 VESTIBULE NORTH - SOUTH (INTERIOR)
SCALE: 1/2" = 1'-0"



A3 A-507 VESTIBULE NORTH - EAST
SCALE: 1/2" = 1'-0"

NOTE: VESTIBULE EXTERIOR COLUMN AND COLUMN COVER NOT SHOWN FOR CLARITY



A4 A-507 ELEVATION VESTIBULE - NORTH (EXTERIOR)
SCALE: 1/2" = 1'-0"

NOTE: CANOPY NOT SHOWN FOR CLARITY

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REINHARD MAYER No. 18837 ARCHITECT

PERMIT SET SUBMISSION

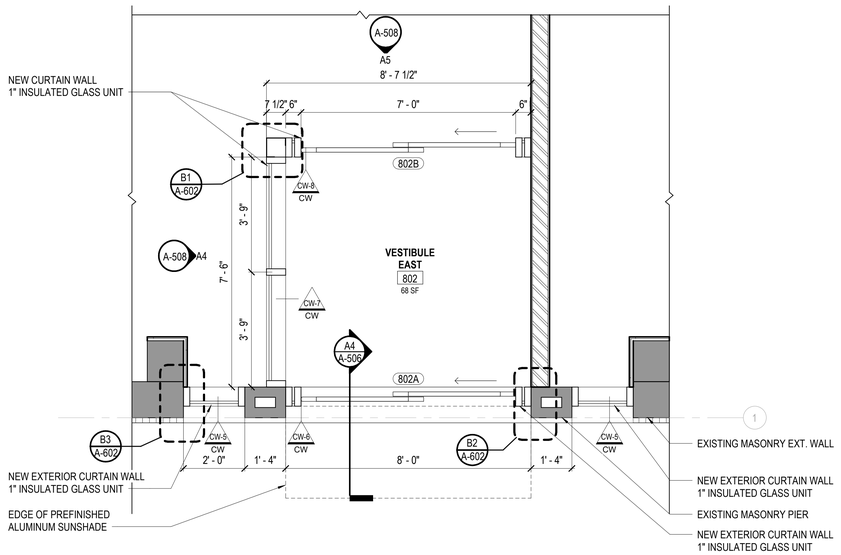
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

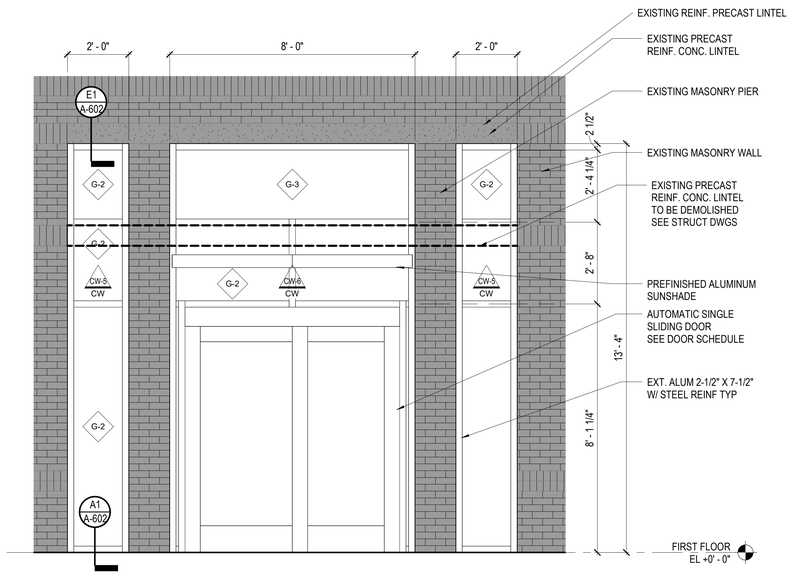
DRAWING
VESTIBULE NORTH - DETAILS

SHEET
A-507

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt
2/14/2023 12:43:57 PM

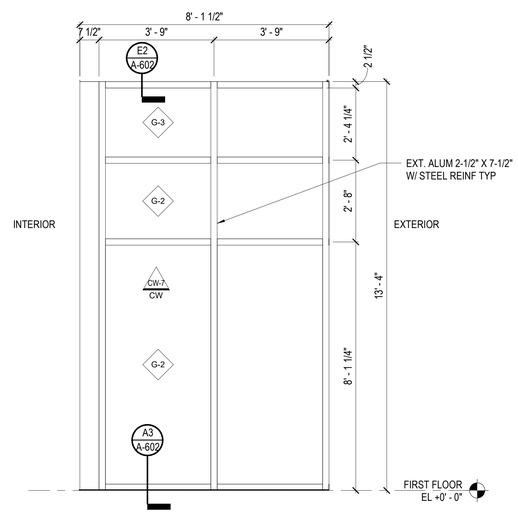


C4 A-508 ENLARGED PLAN VESTIBULE EAST
SCALE: 1/2" = 1'-0"

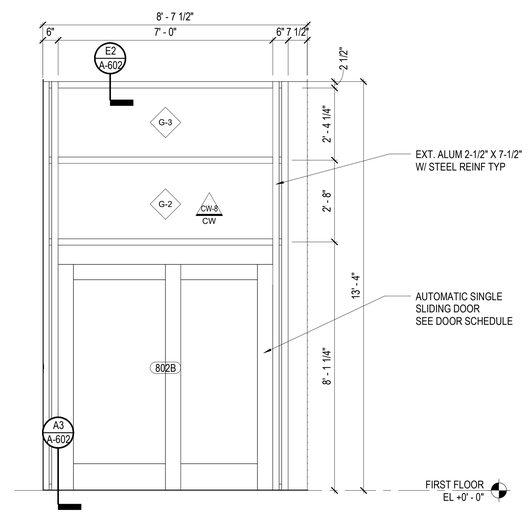


A1 A-508 ELEVATION VESTIBULE - EAST
SCALE: 1/2" = 1'-0"

NOTE: CANOPY NOT SHOWN FOR CLARITY



A4 A-508 VESTIBULE EAST - SOUTH
SCALE: 1/2" = 1'-0"



A5 A-508 VESTIBULE EAST - WEST
SCALE: 1/2" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT No. 18837

PERMIT SET SUBMISSION

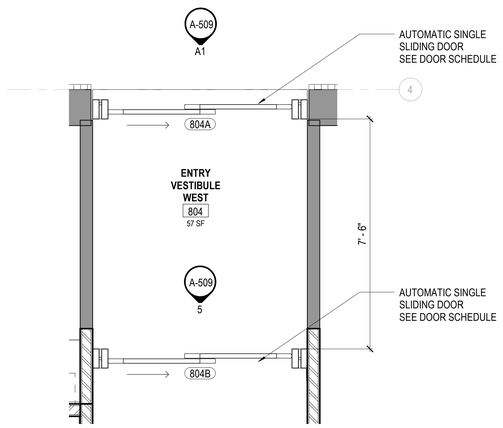
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

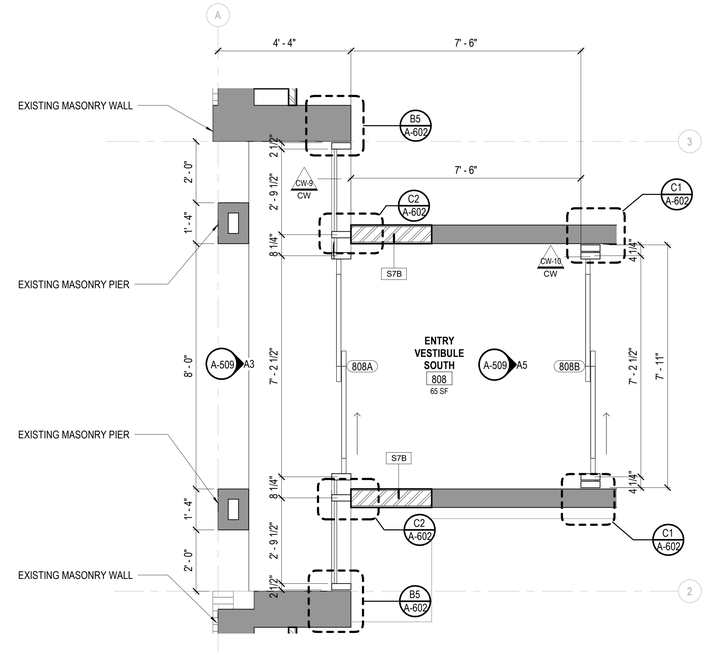
DRAWING
VESTIBULE EAST - DETAILS

SHEET
A-508

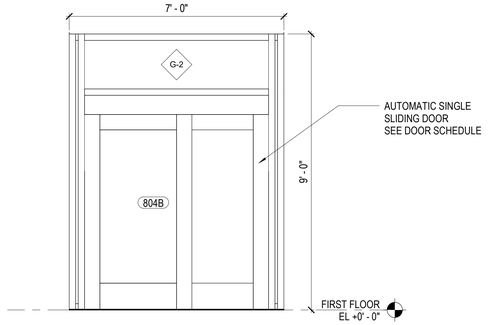
BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno -ARCH.rvt
2/14/2023 12:48:42 PM



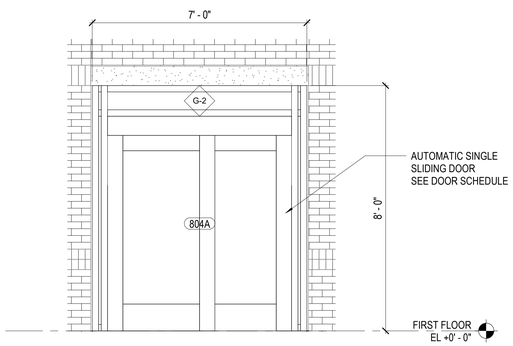
4 A-509 ENLARGED PLAN - VESTIBULE WEST
SCALE: 1/2" = 1'-0"



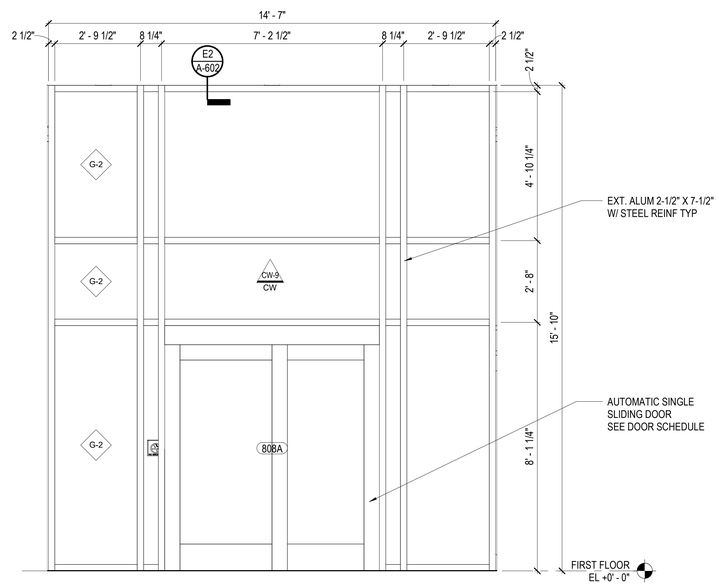
1 A-509 ENLARGED PLAN VESTIBULE SOUTH
SCALE: 1/2" = 1'-0"



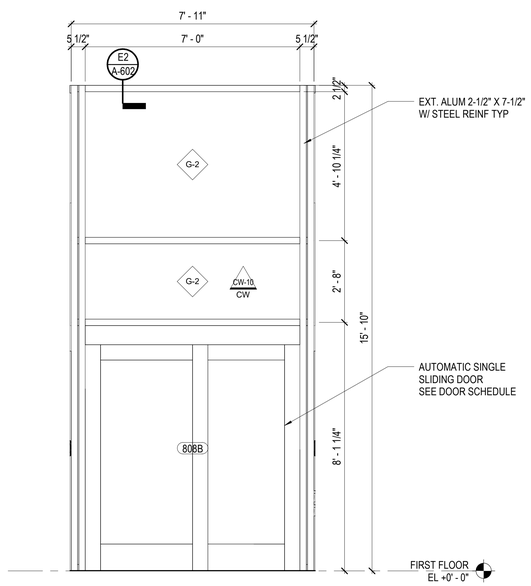
5 A-509 VESTIBULE WEST - EAST
SCALE: 1/2" = 1'-0"



A1 A-509 VESTIBULE WEST
SCALE: 1/2" = 1'-0"



A3 A-509 VESTIBULE SOUTH - SOUTH
SCALE: 1/2" = 1'-0"



A5 A-509 VESTIBULE SOUTH - NORTH
SCALE: 1/2" = 1'-0"

USING AGENCY APPROVAL

Name		Date
Title	DGS APPROVAL	
Project Manager		Date
Chief of FM&AD		Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH L. MARSH
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
VESTIBULE SOUTH AND WEST - DETAILS

SHEET
A-509

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
2/14/2023 12:51:38 PM

DOOR SCHEDULE

Level	DOOR						FRAME					RATING (MIN)	HDWR SET	NOTES
	NUMBER	TYPE	MAT'L	SIZE			TYPE	MAT	DETAILS					
				WIDTH	HEIGHT	THICKNESS			HEAD	JAMB	SILL			
FIRST FLOOR	100	G	ALUM / GLASS	3'-0"	7' - 9 1/2"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		3	3,4
FIRST FLOOR	101	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		4	
FIRST FLOOR	102	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		5	
FIRST FLOOR	103	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		5	
FIRST FLOOR	104	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		5	
FIRST FLOOR	105	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		5	
FIRST FLOOR	106	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		4	
FIRST FLOOR	107	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			6	
FIRST FLOOR	108	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			6	
FIRST FLOOR	109	G	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			7	
FIRST FLOOR	109A	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			8	
FIRST FLOOR	109B	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109C	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109D	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109E	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109F	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109G	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109H	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109IA	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109IB	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C2/A-601	B2/A-601			10	
FIRST FLOOR	109J	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109K	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	109L	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110	G	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			7	
FIRST FLOOR	110A	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110B	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110CA	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601			10	1
FIRST FLOOR	110CB	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			11	
FIRST FLOOR	110D	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110E	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110F	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110G	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	110H	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	111	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			4.1	
FIRST FLOOR	111N	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C2/A-601	B2/A-601			10.1	1
FIRST FLOOR	112	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			12	5
FIRST FLOOR	114	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			12	5
FIRST FLOOR	115	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			6	
FIRST FLOOR	116	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			4.1	

DOOR SCHEDULE

Level	DOOR						FRAME					RATING (MIN)	HDWR SET	NOTES
	NUMBER	TYPE	MAT'L	SIZE			TYPE	MAT	DETAILS					
				WIDTH	HEIGHT	THICKNESS			HEAD	JAMB	SILL			
FIRST FLOOR	116A	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	116B	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	117	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			13	6
FIRST FLOOR	118	A	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			14	6
FIRST FLOOR	119	G	SCWD	3'-0"	7' - 0"	1 3/4"	HM-4	HM	C4/A-601	B4/A-601			15	
FIRST FLOOR	119A	A	SCWD	PR 1'6"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			16	
FIRST FLOOR	120	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601			17	
FIRST FLOOR	121	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			4.1	
FIRST FLOOR	122	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			18	6
FIRST FLOOR	123	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			4.1	
FIRST FLOOR	124A	A	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601		90 MIN	19	2,6
FIRST FLOOR	124B	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601		90 MIN	20	6
FIRST FLOOR	125	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			8.1	6
FIRST FLOOR	126	G	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-3	HM	C4/A-601	B4/A-601			21	
FIRST FLOOR	126A	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601			9	
FIRST FLOOR	126B	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601			9	
FIRST FLOOR	126C	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	126D	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	126E	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	126F	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			8.1	
FIRST FLOOR	126G	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			15	
FIRST FLOOR	127	G	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-3	HM	C4/A-601	B4/A-601			21	
FIRST FLOOR	127A	A	SCWD	PR 3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			8.1	
FIRST FLOOR	127B	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			9	
FIRST FLOOR	127C	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			15	
FIRST FLOOR	127D	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	D4/A-601	D5/A-601			9	
FIRST FLOOR	127F	G	ALUM / GLASS	3'-0"	7' - 0 1/8"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		15.1	
FIRST FLOOR	127G	G	ALUM / GLASS	3'-0"	7' - 0"	1 3/4"	SF	ALMUN	D2/A-601	A4/A-601	A2/A-601		15	
FIRST FLOOR	128	A	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C2/A-601	B2/A-601			22	
FIRST FLOOR	800A	J	ALUM / GLASS	7'-0"	8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2	1
FIRST FLOOR	800B	J	ALUM / GLASS	7'-0"	8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2.1	
FIRST FLOOR	802A	J	ALUM / GLASS		8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2	1
FIRST FLOOR	802B	J	ALUM / GLASS	7'-0"	8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2.1	
FIRST FLOOR	804A	J	ALUM / GLASS	7'-0"	7' - 0"	1 3/4"	CW	ALMUN	CW	CW			2	1
FIRST FLOOR	804B	J	ALUM / GLASS	7'-0"	7' - 0"	1 3/4"	CW	ALMUN	CW	CW			2.1	
FIRST FLOOR	806	E	SCWD	3'-0"	7' - 0"	1 3/4"	HM-1	HM	C4/A-601	B4/A-601			10	1
FIRST FLOOR	808A	J	ALUM / GLASS	7'-0"	8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2	1
FIRST FLOOR	808B	J	ALUM / GLASS	7'-0"	8' - 0"	1 3/4"	CW	ALMUN	CW	CW			2.1	

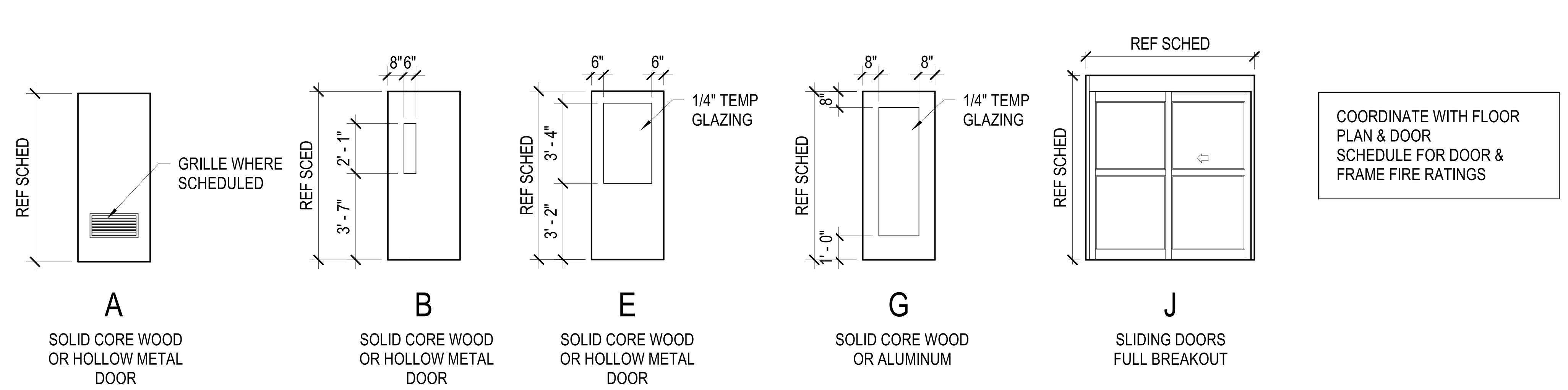
DOOR SCHEDULE NOTES

1. PROVIDE CARD READER
2. PROVIDE AIR TRANSFER LOUVER FOR DOORS INDICATED. PROVIDE RATED LOUVER WHERE REQUIRED FOR RATED DOORS ASSEMBLIES. (MIN. FREE AREA = 1.1 SF)
3. REQUIRES PANIC HARDWARE FOR EGRESS
4. EGRESS ONLY DOOR
5. PROVIDE ADA POWER ASSIST DOOR OPENER
6. EXTRA HEAVY DUTY DOOR

GLAZING SCHEDULE

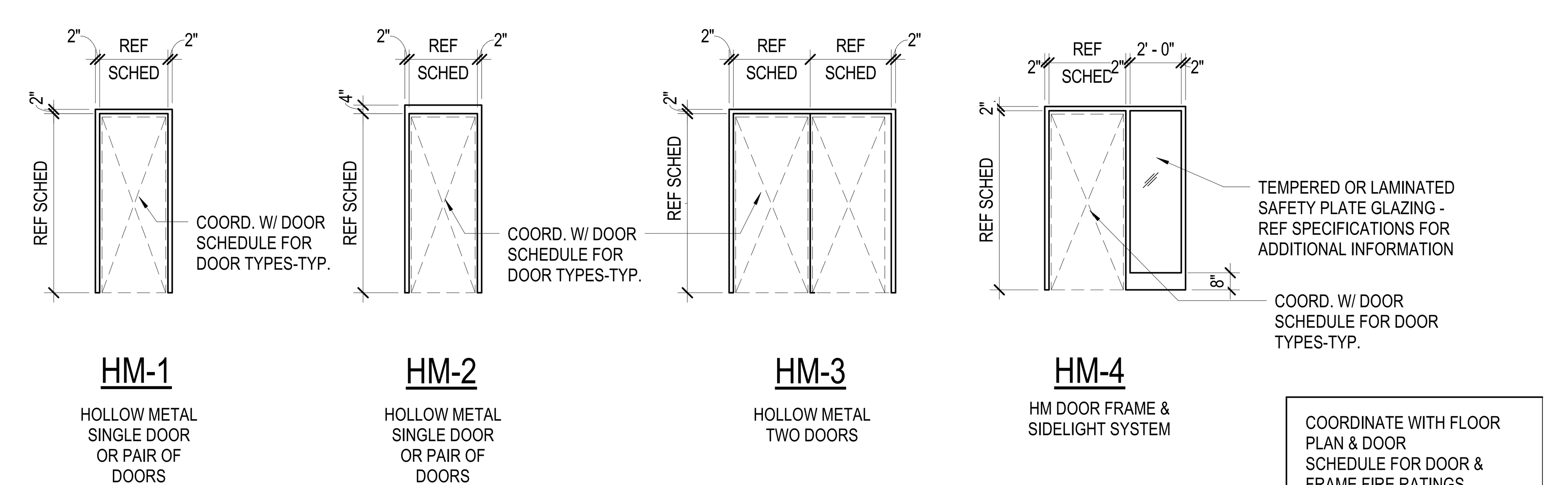
G1	1/4" INTERIOR GLAZING (INTERIOR STOREFRONT - INTERIOR DOORS)
G2	1" EXTERIOR INSULATED GLAZING - VISION
G3	1" EXTERIOR INSULATED GLAZING - SPANDREL
G4	9/16" LAMINATED GLASS

NOTES:
1. ALL GLAZING SHALL BE TEMPERED U.N.O.
2. REFER TO SPECIFICATION 088000 FOR ADDITIONAL GLAZING INFORMATION



TYPICAL DOOR TYPES

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



TYPICAL DOOR FRAME TYPES

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

USING AGENCY APPROVAL
Name | Date
Title | DGS APPROVAL
Project Manager | Date
Chief of PMM&D | Date

MARK | DATE | BY | DESCR
REVISIONS

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 18837, expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH D. LEONARD
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

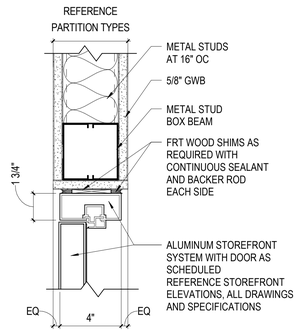
MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

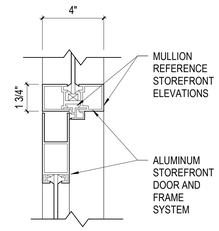
DRAWING: DOOR SCHEDULE, FRAMING TYPES AND NOTES

SHEET
A-600

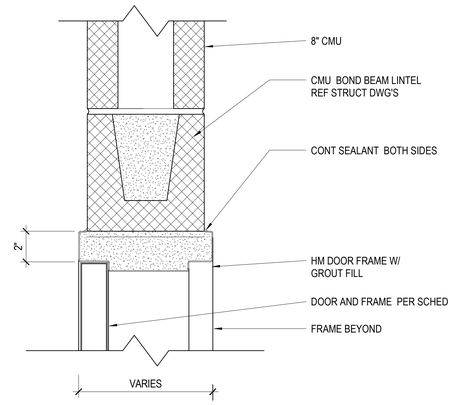
12/9/2022 12:26:05 PM
BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt



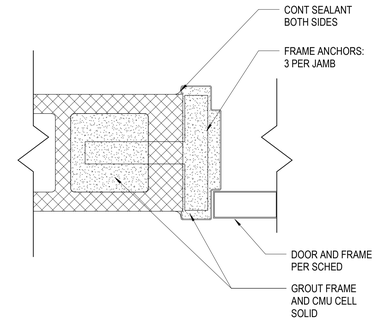
D1 A-601 SF DOOR HEAD DETAIL @ GWB
SCALE: 3" = 1'-0"



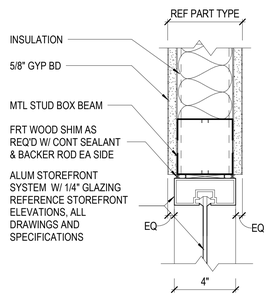
D2 A-601 SF DOOR HEAD DETAIL @ TRANSOM
SCALE: 3" = 1'-0"



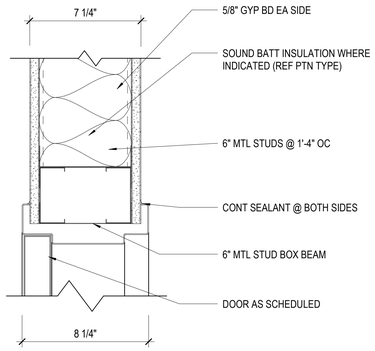
D4 A-601 HEAD DETAIL - INT HM FRAME - CMU
SCALE: 3" = 1'-0"



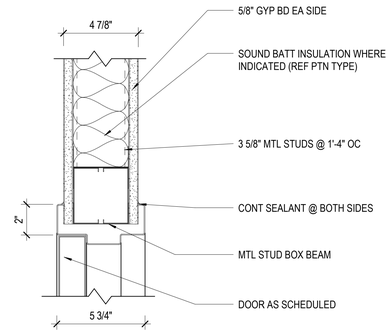
D5 A-601 JAMB DETAIL - INT HM FRAME - CMU
SCALE: 3" = 1'-0"



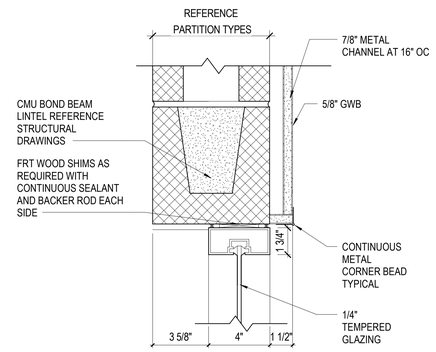
C1 A-601 SF DETAIL - HEAD - TYP
SCALE: 3" = 1'-0"



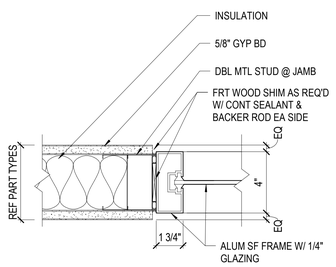
C2 A-601 HEAD DETAIL - INT HM FRAME - 6" MTL STUD W/ 5/8" GWB EACH SIDE
SCALE: 3" = 1'-0"



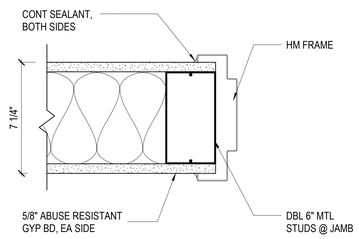
C4 A-601 HEAD DETAIL - INT HM FRAME - 3 5/8" MTL STUD W/ 5/8" GWB EACH SIDE
SCALE: 3" = 1'-0"



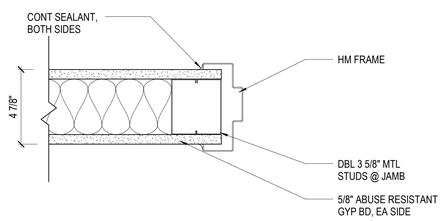
C5 A-601 HEAD DETAIL - SF CMU FUR
SCALE: 3" = 1'-0"



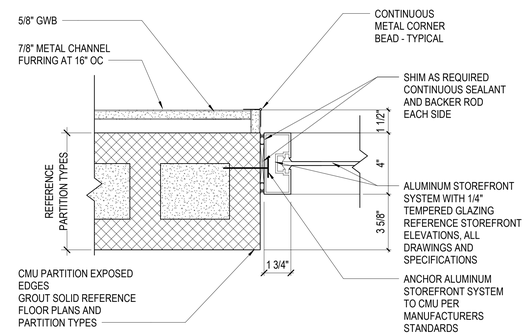
B1 A-601 SF DETAIL - JAMB TYP
SCALE: 3" = 1'-0"



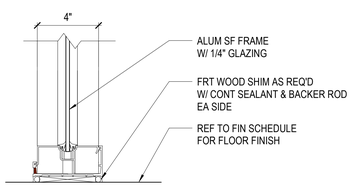
B2 A-601 JAMB DETAIL - INT HM FRAME - 6" MTL STUD W/ 5/8" GWB EACH SIDE
SCALE: 3" = 1'-0"



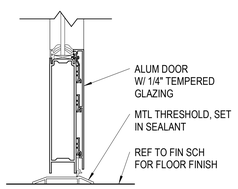
B4 A-601 JAMB DETAIL - INT HM FRAME - 3 5/8" MTL STUD W/ 5/8" GWB EACH SIDE
SCALE: 3" = 1'-0"



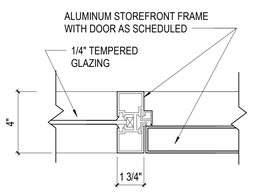
B5 A-601 DETAIL - JAMB
SCALE: 3" = 1'-0"



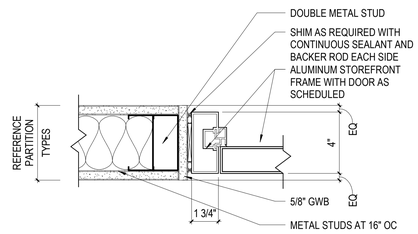
A1 A-601 SF DETAIL - SILL TYP
SCALE: 3" = 1'-0"



A2 A-601 SF SILL@ ALUM DOOR
SCALE: 3" = 1'-0"



A4 A-601 SF DOOR JAMB DETAIL @ INT MULLION
SCALE: 3" = 1'-0"



A5 A-601 SF DOOR JAMB DETAIL @ GWB
SCALE: 3" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT NO. 18837

PERMIT SET SUBMISSION

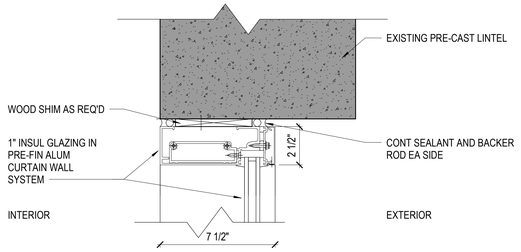
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

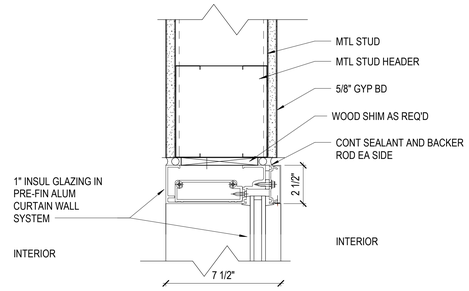
DRAWING
STOREFRONT AND DOOR OPENING DETAILS

SHEET
A-601

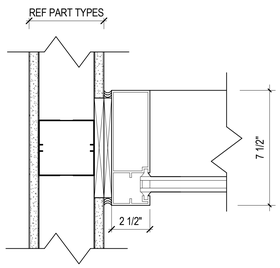
12/9/2022 12:26:07 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt



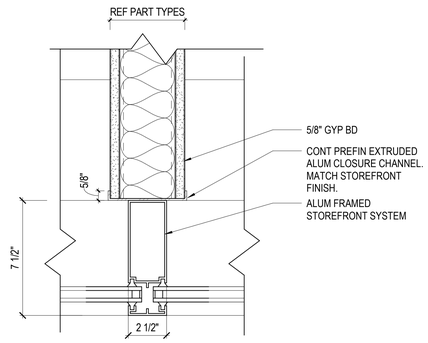
E1 A-602 CW HEAD @ PRE-CAST LINTEL
SCALE: 3" = 1'-0"



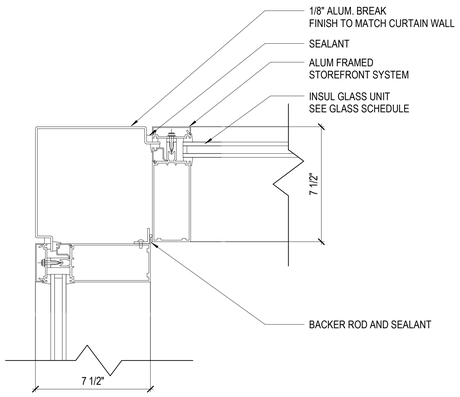
E2 A-602 CW HEAD @ GYP WALL
SCALE: 3" = 1'-0"



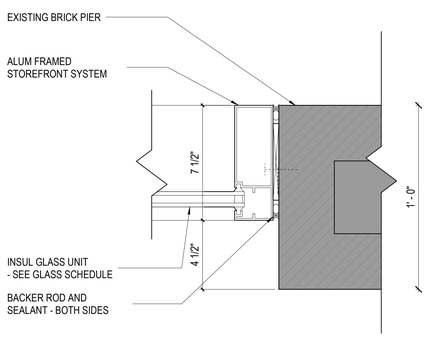
C1 A-602 CW JAMB DETAIL GYP WALL
SCALE: 3" = 1'-0"



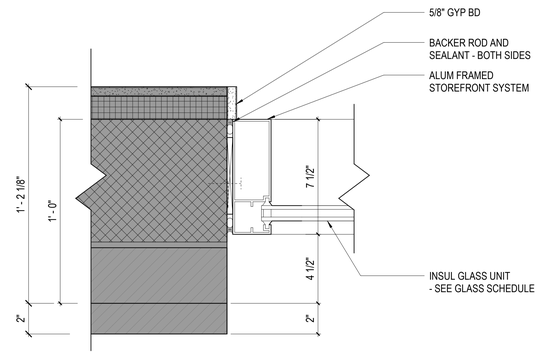
C2 A-602 JAMB DETAIL
SCALE: 3" = 1'-0"



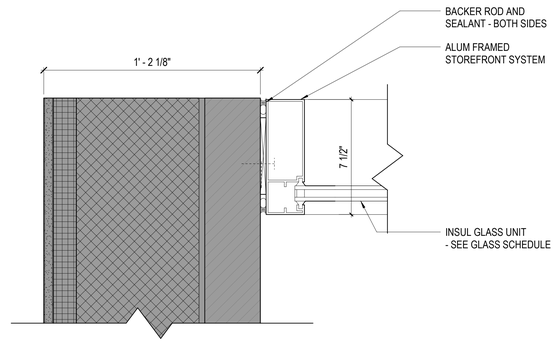
B1 A-602 CW JAMB @ 90 METAL BREAK CORNER
SCALE: 3" = 1'-0"



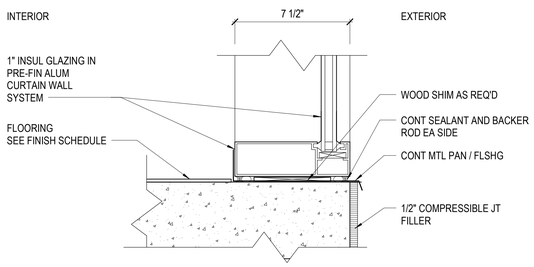
B2 A-602 JAMB DETAIL @ MASONRY PIER
SCALE: 3" = 1'-0"



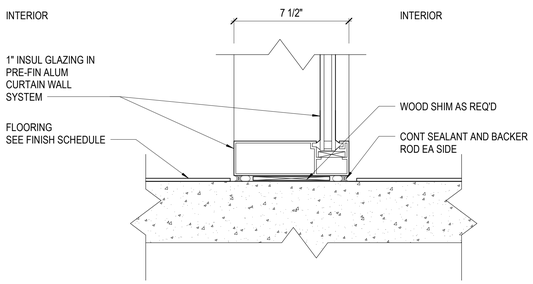
B3 A-602 CW JAMB DETAIL @ MASONRY CORNER
SCALE: 3" = 1'-0"



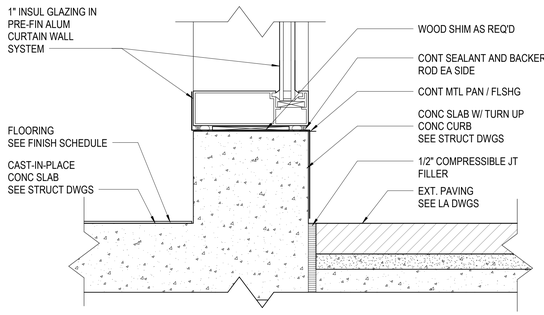
B5 A-602 CW JAMB DETAIL @ MASONRY WALL
SCALE: 3" = 1'-0"



A1 A-602 CW SILL @ SLAB ON GRADE
SCALE: 3" = 1'-0"



A3 A-602 CW SILL @ SLAB ON GRADE
SCALE: 3" = 1'-0"



A4 A-602 DETAIL - SILL
SCALE: 3" = 1'-0"

STOREFRONT SCHEDULE

Mark	Type	HEIGHT	LENGTH	Comments
SF-1	Storefront 2.5" x 5" mullions	8' - 0"	5' - 8"	
SF-2	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	6' - 0"	
SF-3	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	9' - 0"	
SF-4	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	8' - 0"	
SF-5	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	5' - 2"	
SF-6	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	16' - 4 3/4"	
SF-7	Storefront 1-3/4" x 4" mullions Kawneer TRIFAB 400	8' - 0"	16' - 8"	

CURTAIN WALL SCHEDULE

Mark	Type	HEIGHT	LENGTH	Comments
CW-1	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600 System 2 SSG	12' - 3"	14' - 8"	
CW-2	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	12' - 3"	4' - 1 1/2"	
CW-4	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	13' - 4"	14' - 8"	
CW-5	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	13' - 4"	2' - 0"	
CW-6	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	13' - 4"	8' - 0"	
CW-7	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	13' - 4"	7' - 6"	
CW-8	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	13' - 4"	8' - 0"	
CW-9	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	15' - 10"	14' - 7"	
CW-10	Exterior Curtain Wall 7-1/2" x 2-1/2" Kawneer 1600	15' - 10"	7' - 11"	

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&CD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED MWH
DRAWN HMB
CHECKED KDL

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ARTHUR L. RICARDO No. 18837 ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
CURTAIN WALL AND STOREFRONT SCHEDULES AND DETAILS

MHEC PROJECT CC-09-473

SHEET
A-602

BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:26:08 PM

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	WALL BASE	WALLS N	WALLS S	WALLS E	WALLS W	CEILING	CEILING HEIGHT	NOTES
100	WELCOME CENTER LOBBY	SVT1 / CPT2	RB1	PT1. 2. AWP1	PT1	PT1	PT1	ACT1 / ACC1		
101	HAWK HUB MGR'S OFFICE	CPT1	RB1	PT1	PT1	PT1	PT3	ACT1		1
102	FLEX MEETING ROOM	CPT2	RB1	PT1	PT1	WF1	PT4	ACT1		4
103	FLEX MEETING ROOM	CPT2	RB1	PT1	PT1	WF1	PT4	ACT1		4
104	FLEX MEETING ROOM	CPT2	RB1	PT1	PT1	WF1	PT4	ACT1		4
105	FLEX MEETING ROOM	CPT2	RB1	PT1	PT1	WF1	PT4	ACT1		4
106	HAWK HUB MGR'S OFFICE	CPT1	RB1	PT3	PT1	PT1	PT1	ACT1		1
107	SO REST.	PRT1	PRTB1	PRT2,3	PRT2,3	PRT2,3	PRT2,3	PT5		
108	SO REST.	PRT1	PRTB1	PRT2,3	PRT2,3	PRT2,3	PRT2,3	PT5		
109	CORRIDOR ADVISING	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
109A	STORAGE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
109B	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109C	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109D	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109E	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109F	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109G	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109H	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109I	CAREER CENTER	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109J	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109K	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
109L	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110	CORRIDOR ADMISSIONS	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
110A	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110B	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110C	ADMISSIONS SERVICES CENTER	CPT2	RB1	PT1	PT1	PT1	PT1	ACT1		
110D	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110E	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110F	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110G	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
110H	DIRECTOR'S OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
111	HAWK HUB CONTACT CENTER	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
111N	CORRIDOR ADVISING	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
112	MENS RESTROOM	PRT1	PRTB1	PRT2,3	PRT2,3	PRT2,3	PRT2,3	ACT1		
113	STUDENT'S LOBBY	SVT1,2	RB1	PT1	PT1	PT1, 3, WC2	PT2, 3, WC1 , AWP1	ACT1 / ACC1		
114	WOMENS RESTROOM	PRT1	PRTB1	PRT2,3	PRT2,3	PRT2,3	PRT2,3	ACT1		
114B	REST. VESTIBULE	SVT1	RB1	PT1	PT1	PT1	PT1	ACT1		
115	LACTATION ROOM	SVT1	RB1	PT1	PT1	PT3	PT1	ACT1		
116	COUNSELOR'S VESTIBULE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
116A	COUNSELOR OFFICE	CPT1	RB1	PT1	PT1	PT1	1	ACT1		1
116B	COUNSELOR OFFICE	CPT1	RB1	PT1	PT1	PT1	PT2	ACT1		1
117	W/S SYST. ROOM	SC	RB1	PT1	PT1	PT1	PT1	PT5		
118	TELECOM	SC	RB1	PT1	PT1	PT1	PT1	PT5		
119	MEETING/CONFERENCE	CPT2	RB1	PT1	PT4	PT1	PT1	ACT1		2
119A	STO	CPT2	RB1	PT1	PT1	PT1	PT1	PT5		
120	STAFF KITCHEN MULTI-ROOM	SVT1	RB1	PT1	PT4	PT1	PT1	ACT1		
121	FLEX OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
121A	CORRIDOR	SVT1	RB1	PT1	PT1	PT1	PT1	ACT1		
122	EMERG. ATS	SC	RB1	PT1	PT1	PT1	PT1	PT5		
123	FLEX OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
124	ELEC. ROOM	SC	RB1	PT1	PT1	PT1	PT1	PT5		
125	CUSTODIAL ROOM	SC	RB1	PT1 / RVS1	PT1	PT1 / RVS1	PT1	ACT1		5
126	CORRIDOR DSS	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
126A	DSS DIRECTOR	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
126B	RESOURCES ROOM	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
126C	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
126D	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
126E	OFFICE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
126F	STORAGE	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
126G	STUDY ROOM	CPT1	RB1	PT1	PT4	PT1	PT1	ACT1		
127	T.C. RECEPTION	CPT2	RB1	PT1	PT1	PT1	PT1	ACT1		
127A	T.C.STO.	CPT2	RB1	PT1	PT1	PT1	PT1	PT5		
127B	T.C. DIRECTOR'S OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACT1		1
127C	SPECIAL REQ. TESTING ROOM	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
127D	T.C. 2ND CHECK-IN AREA	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		
127F	TESTING ROOM 2	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
127G	TESTING ROOM 1	CPT1	RB1	PT1	PT1	PT1	PT1	ACT1		1
128	MULTI-PURPOSE STUDENT RESOURCE SPACE	CPT3	RB1	PT1	PT1	PT1	PT1	ACT1 / ACC1		2
800	WC ENTRY VESTIBULE	EM1	RB1	PT1	PT1	PT1	PT1	PT5		
801	CORRIDOR NORTH	SVT1	RB1	PT1, 3	PT1	PT1	PT1	PT5		
802	VESTIBULE EAST	EM1	RB1	PT1	PT1	PT1	PT1	PT5		
803	CORRIDOR WEST	SVT1	RB1	PT1, PT3	PT1	PT1	PT1	PT5		
804	ENTRY VESTIBULE WEST	EM1	RB1	PT1	PT1	PT1	PT1	PT5		
805	CORRIDOR	SVT1	RB1	PT1	--	PT1	PT1	ACT1		
806	CORRIDOR	SVT1	RB1	PT1	PT1	PT1	PT1	ACT1		
807	CORRIDOR SOUTH	SVT1	RB1	PT1, 3	PT1	PT1	PT1	PT5		
808	ENTRY VESTIBULE SOUTH	EM1	RB1	PT1	PT1	PT1	PT1	PT5		

FINISH LEGEND

SYMBOL	PRODUCT	MANUFACTURER	PRODUCT # / STYLE	COLOR	NOTES
FLOOR					
CPT1	CARPET	PATCRAFT	#I0555, INCLUSION	#00100, SANDSTONE	24" x 24" TILE, ASHLAR INSTALLATION
CPT2	CARPET	PATCRAFT	I0553, INCLUSION COLOR	#00100, TOPAZ	24" x 24" TILE, ASHLAR INSTALLATION
EM1	ENTRY MAT	PATCRAFT	WALK RIGHT IN #I0304	#00500 STERLING	24" x 24" TILE, QUARTER TURN INSTALLATION
PRT1	PORCELAIN TILE	ATLAS CONCORDE	FRAY	SAND	11-3/4" x 23-3/4" TILE
SC	SEALED CONCRETE	--	--	--	--
SVT1	SOLID VINYL TILE	PATCRAFT	ADMIX	CORAL	36" x 36" MONOLITHIC INSTALLATION
SVT2	SOLID VINYL TILE	PATCRAFT	ADMIX ENCORE	00305 ACIER	36" x 36" MONOLITHIC INSTALLATION
BASE					
PRTB1	PORCELAIN TILE BASE	ATLAS CONCORDE	FRAY	PEARL	6" x 12" COVE BASE
RB1	RESILIENT BASE	TARKETT	COLOR MATCH SERIES	48 GREY (WG)	4"H
WALLS					
PRT2	PORCELAIN TILE	ATLAS CONCORDE	FRAY	PEARL	11-3/4" x 23-3/4" TILE, STRAIGHT STACK
PRT3	PORCELAIN TILE	ATLAS CONCORDE	FRAY	TATAMI WARM	11-3/4" x 11-3/4" MOSAIC TILE (INSTALLED 1/2 SHEET VERTICALLY)
PT1	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7015 REPOSE GRAY	--
PT2	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7018 DOVETAIL	--
PT3	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6683 BEE	--
PT4	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW6510 LOYAL BLUE	--
RVS1	RIGID VINYL SHEET	INPRO	PALLADIUM RIGID SHEET	TBD	4' x 8' SHEET, PROVIDE FINISHING TRIM PIECES
WC1	IMPACT RESISTANT WALLCOVERING	WOLF GORDON	RAMPART/GRAIN	WHITE OAK	IMPACT RESISTANT VINYL
WC2	VINYL WALLCOVERING	NATIONAL WALLCOVERING	FIND YOUR LEVEL DIGITAL	CUSTOM	TYPE 11 VINYL WITH CUSTOM IMAGE, OWNER TO PROVIDE GRAPHIC
CEILINGS					
ACC1	ACOUSTICAL CEILING CLOUD	ARMSTRONG	CIRRUS SECOND LOOK #514	WHITE	24" x 48" x 3/4", 15/16" GRID
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA #1910	WHITE	24 x 24" TILE, 15/16" GRID
PT5	PAINT	SHERWIN WILLIAMS	REFER TO SPECIFICATION FOR PRODUCT TYPE PER SUBSTRATE	SW7007 CEILING BRIGHT WHITE	--
MISCELLANEOUS					
APS1	ACOUSTICAL PANEL SCREEN	KIREI	ECHOPANEL	124 (GOLD)	12MM, 47.24 in x 110.24 in
AWP1	ACOUSTICAL WALL PANEL	KIREI	ECHOPANEL	124 (GOLD)	12MM, 47.24 in x 110.24 in
GR1	GROUT	MAPEI	--	TBD	TO BE USED WITH FLOOR TILE
GR2	GROUT	MAPEI	--	TBD	TO BE USED WITH WALL TILE
MT1	METAL EDGE	SCHLUTER	QUADEC	ALUMINUM	
MT2	METAL EDGE	SCHLUTER	SCHIENE	ALUMINUM	BOTTOM OF TILE
MT3	WALLCOVERING TRIM	TBD	J-TRIM	TBD	J-TRIM FOR WALLCOVERING
PLAM1	PLASTIC LAMINATE	FORMICA	--	7738-58 CONGAC MAPLE	VERTICAL GRAIN DIRECTION
PLAM2	PLASTIC LAMINATE	PIONITE	--	AG730 YORKSHIRE TWEED	VERTICAL GRAIN DIRECTION
RS1	ROLLER SHADE	MECHOSHADE	MECHO 5	TBD	3% OPENNESS SHADE
RS2	ROLLER SHADE	MECHOSHADE	ELECTRO 1, IQ2DC	TBD	3% OPENNESS SHADE
SSM1	SOLID SURFACE MATERIAL	MEGANITE	SOLID SURFACE	630A ANTIQUE WHITE	1/2 MATERIAL
TP1	TOILET PARTITION	SCRANTON PRODUCTS	THRU COLOR PHENOLIC	TBD	** HANGING METHOD
WF1	WINDOW FILM			GOLD	OPACITY TO BE DETERMINED

GENERAL FINISH NOTES

A. THE FINISH SCHEDULE INDICATES ONLY THE BASIC OR PREDOMINANT SURFACE FINISHES OF EACH SPACE. REFER TO KEYNOTES, DETAILS, ELEVATIONS, RCP'S AND FINISH PLANS FOR THE FULL RANGE AND EXTENT OF FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.

B. FINISH SCHEDULE FOLLOWS PLAN NORTH

C. CONTRACTOR TO CHECK AND COORDINATE LEAD TIMES AND REQUIREMENTS FOR FINISHES REQUIRED TO COMPLETE THE WORK FOR EACH SPACE.

D. PAINT GWB WALLS IN EGGSHELL FINISH AND ALL DOOR FRAMES AND MISCELLANEOUS TRIM IN SEMI-GLOSS FINISH, U.O.N.

E. PAINT CMU WALLS IN SEMI-GLOSS FINISH, U.O.N.

F. PROVIDE EPOXY GROUT FOR FLOOR AND WALL TILE INSTALLATIONS.

G. FOR AREAS WITH CEILINGS NOTED AS 'EXP/PTX' PROVIDE FLAT FINISH PAINT IN COLOR AS INDICATED ON THE FINISH SCHEDULE, U.O.N.

H. REFER TO CASEWORK ELEVATIONS AND DETAILS FOR PLASTIC LAMINATE COLOR PLACEMENT.

J. MOUNT BOTTOM EDGE/RAIL OF ALL MARKERBOARDS, TACKBOARDS AND INTERACTIVE BOARDS AT 36" AFF U.O.N.

K. ALL HOLLOW METAL DOORS AND DOOR FRAMES TO BE PAINTED PT2

L. PAINT ALL GWB SOFFITS AND BULKHEADS PT1, U.O.N.

M. PROVIDE SOLID SURFACE WINDOW SILLS, (SS1) IN 1/2" WITH BULLNOSE FRONT EDGE

.

FINISH SCHEDULE NOTES:

1. PROVIDE RS1 AT EXTERIOR WINDOW
2. PROVIDE RS2 AT EXTERIOR WINDOW
3. NOT USED
4. PROVIDE WINDOW FILM WF1 AT STOREFRONT. REFER TO INTERIOR ELEVATION FOR EXTENTS
5. PROVIDE RIGID VINYL SHEET PANEL BEHIND MOP SINK. REFER TO INTERIOR ELEVATION FOR EXTENTS

USING AGENCY APPROVAL

DGS APPROVAL

MARK DATE BY DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH D. LEONARD No. 18837 ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

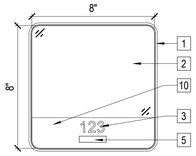
DRAWING FINISH LEGEND, SCHEDULES AND NOTES

SHEET A-603

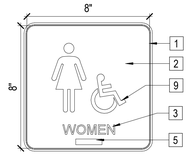
12/9/2022 12:26:10 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

ROOM SIGNAGE SCHEDULE

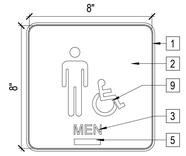
ROOM NUMBER	ROOM NAME	SIGNAGE INFORMATION			
		SIGN TYPE	SIGN TEXT	SIGN NUMBER	SIGN NOTES
100	WELCOME CENTER LOBBY	5	EXIT	--	
100	WELCOME CENTER LOBBY	5	EXIT		
101	HAWK HUB MGR'S OFFICE	1	HAWK HUB MGR'S OFFICE	101	
102	FLEX MEETING ROOM	1	FLEX MEETING ROOM	102	
103	FLEX MEETING ROOM	1	FLEX MEETING ROOM	103	
104	FLEX MEETING ROOM	1	FLEX MEETING ROOM	104	
105	FLEX MEETING ROOM	1	FLEX MEETING ROOM	105	
106	HAWK HUB MGR'S OFFICE	1	HAWK HUB MGR'S OFFICE	106	
107	SO REST.	4	RESTROOM	107	
108	SO REST.	4	RESTROOM	108	
109A	STORAGE	1	STORAGE	109A	
109B	OFFICE	1	OFFICE	109B	
109C	OFFICE	1	OFFICE	109C	
109D	OFFICE	1	OFFICE	109D	
109E	OFFICE	1	OFFICE	109E	
109F	OFFICE	1	OFFICE	109F	
109G	OFFICE	1	OFFICE	109G	
109H	OFFICE	1	OFFICE	109H	
109I	CAREER CENTER	1	CAREER CENTER	109I	1
109I	CAREER CENTER	1	CAREER CENTER	109I	
109J	OFFICE	1	OFFICE	109J	
109K	OFFICE	1	OFFICE	109K	
109L	OFFICE	1	OFFICE	109L	
110A	OFFICE	1	OFFICE	110A	
110B	OFFICE	1	OFFICE	110B	
110C	ADMISSIONS SERVICES CENTER	1	CALL CENTER	110C	
110D	OFFICE	1	OFFICE	110D	
110E	OFFICE	1	OFFICE	110E	
110F	OFFICE	1	OFFICE	110F	
110G	OFFICE	1	OFFICE	110G	
110H	DIRECTOR'S OFFICE	1	DIRECTOR'S OFFICE	110H	
111	HAWK HUB CONTACT CENTER	1	HAWK HUB CONTACT CENTER	111	
112	MENS RESTROOM	3	MEN	--	
113	STUDENT'S LOBBY	5	EXIT	--	
114	WOMENS RESTROOM	2	WOMEN	--	
115	LACTATION ROOM	8	LACTATION ROOM	115	
116	COUNSELOR'S VESTIBULE	1			
116A	COUNSELOR OFFICE	1	COUNSELOR OFFICE	116A	
116B	COUNSELOR OFFICE	1	COUNSELOR OFFICE	116B	
117	W/S SYST. ROOM	1	W/S SYST. ROOM	117	
118	TELECOM	1	TELECOM	118	
119	MEETING/CONFERENCE	7	EVACUATION PLAN	--	
119	MEETING/CONFERENCE	1	MEETING/CONFERENCE	119	
120	STAFF KITCHEN MULTI-ROOM	1	STAFF KITCHEN MULTI-ROOM	120	
121	FLEX OFFICE	1	COUNSELOR OFFICE	121	
121A	CORRIDOR	1	KITCHEN / CONFERENCE	121A	
122	EMERG. ATS	1	EMERG. ATS	122	
123	FLEX OFFICE	1	COUNSELOR OFFICE	123	
124	ELEC. ROOM	1	ELEC. ROOM	124	
124	ELEC. ROOM	1	ELEC. ROOM	124	
125	CUSTODIAL ROOM	1	CUSTODIAL ROOM	125	
126A	DSS DIRECTOR	1	DSS DIRECTOR	126A	
126B	RESOURCES ROOM	1	RESOURCES ROOM	126B	
126B	RESOURCES ROOM	7	EVACUATION PLAN	--	
126C	OFFICE	1	OFFICE	126C	
126D	OFFICE	1	OFFICE	126D	
126E	OFFICE	1	OFFICE	126E	
126F	STORAGE	1	STORAGE	126F	
126G	STUDY ROOM	1	STUDY ROOM	126G	
127A	T.C.STO.	1	T.C. STO.	127A	
127B	T.C. DIRECTOR'S OFFICE	1	T.C. DIRECTOR'S OFFICE	127B	
127C	SPECIAL REQ. TESTING ROOM	1	SPECIAL REQ. TESTING ROOM	127C	
127D	T.C. 2ND CHECK-IN AREA	1	T.C. 2ND CHECK-IN AREA	127D	
127D	T.C. 2ND CHECK-IN AREA	7	EVACUATION PLAN	--	
127F	TESTING ROOM 2	1	TESTING ROOM 2	127F	
127G	TESTING ROOM 1	1	TESTING ROOM 1	127G	
128	MULTI-PURPOSE STUDENT RESOURCE SPACE	1	MULTI-PURPOSE STUDENT RESOURCE SPACE	128	
128	MULTI-PURPOSE STUDENT RESOURCE SPACE	7	EVACUATION PLAN	--	
800	WC ENTRY VESTIBULE	6	NO SMOKING	--	
801	CORRIDOR NORTH	1	ADMISSIONS	110	1
801	CORRIDOR NORTH	1	ADVISING	109	1
803	CORRIDOR WEST	5	EXIT	--	
803	CORRIDOR WEST	1	CALL CENTER	803	
807	CORRIDOR SOUTH	5	EXIT	--	
807	CORRIDOR SOUTH	1	TESTING CENTER	127	1
807	CORRIDOR SOUTH	1	STAFF	126	1
808	ENTRY VESTIBULE SOUTH	6	NO SMOKING	--	



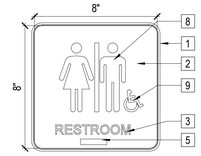
SIGN TYPE 1



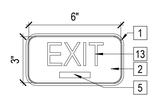
SIGN TYPE 2



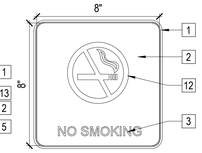
SIGN TYPE 3



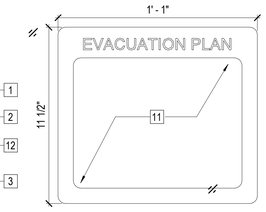
SIGN TYPE 4



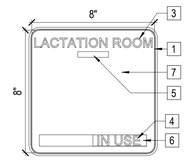
SIGN TYPE 5



SIGN TYPE 6



SIGN TYPE 7



SIGN TYPE 8

SIGNAGE KEY NOTES

1. APCO SIGN HOLDER IN PART CODE: RH-88 AND IN PART COLOR: A43 PUTTY
2. APCO 8" x 8" SIGN INSERT IN PART CODE RI-88-CL (CLEARLENS) WITH PAPER COLOR: A43 PUTTY LASER PRINTED GRAPHICS: BLANK
3. 5/8" x 1/32" DIRECT PRINT TACTILE GRAPHICS (DPT) RAISED HELVETICANEUE-ROMAN COPY TEXT IN COLOR: A02 BLACK
4. 3/8" x 1/32" FLATBED PRINTED GRAPHICS (FBP) RAISED HELVETICANEUE-ROMAN COPY TEXT IN COLOR: A02 BLACK
5. GRADE 2 BRAILLE, TO MATCH APCO SIGN HOLDER BACKGROUND IN PART COLOR: A43 PUTTY
6. APCO SPLIT INSERT IN PART CODE RI-68B IN COLOR: A43 PUTTY
7. APCO SLIDER INSERT IN PART CODE RI-88CSS-DPT (SLIDER) IN SLIDER COLOR: A43 PUTTY AND PAPER COLOR" A43 PUTTY
8. APCO 4" SYMBOL 13: (RESTROOM) FLATBED PRINTED GRAPHICS (FBP) FORMAT: TC, TM = 1-3/16" IN COLOR: A02 BLACK
9. APCO 2" SYMBOL 3: (ACCESSIBLE) FLATBED PRINTED GRAPHICS (FBP) FORMAT: TC, TM = 1-3/16" IN COLOR: A02 BLACK
10. 2" x 8" DIRECT PRINT TACTILE GRAPHICS (DPT) COLOR BAND IN COLOR: A43 PUTTY
11. APCO 8 1/2" x 11" SIGN INSERT IN PART CODE: RH-88-CL (CLEARLENS) WITH PAPER COLOR: A43 PUTTY LASER PRINTED GRAPHICS: BLANK
12. APCO SYMBOL : (NO SMOKING) FLATBED PRINTED GRAPHICS (FBP) FORMAT: TC, TM = 1-3/16" IN COLOR: A02 BLACK
13. 1 - 1/2" x 1/32" DIRECT PRINT TACTILE GRAPHICS (DPT) RAISED HELVETICANEUE-ROMAN COPY TEXT IN COLOR: A02 BLACK

GENERAL SIGNAGE NOTES

A. REFER TO TYPICAL SIGNAGE MOUNTING HEIGHT ELEVATION (THIS SHEET) FOR INSTALLATION LOCATION OF ROOM IDENTIFICATION SIGNS.

B. ALL SIGN COPY TEXT (ROOM NAME AND NUMBERS) TO BE APPROVED BY OWNER PRIOR TO FABRICATION.

C. WHERE MULTIPLE SIGN TYPES OCCUR, REFER TO SCHEDULE NOTES AND SIGNAGE PLANS FOR QUANTITIES AND LOCATIONS.

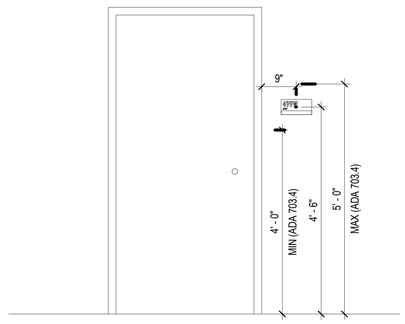
D. ALL SIGNAGE TO COMPLY WITH ADA STANDARDS.

E. CONTRACTOR TO PROVIDE PAPER INSERTS FOR WINDOW INSERT SIGNS

F. NO SMOKING SIGN TYPE 8 TO BE PROVIDED AT EACH ENTRY DOOR ON THE EXTERIOR. PLACEMENT TO BE DETERMINED ON SITE.

SIGNAGE SCHEDULE NOTES

1. PROVIDE 6" PAINTED ACRYLIC LETTERS AT ENTRANCE SOFFITS. REFER TO INTERIOR ELEVATIONS. COLOR TO BE SATIN SILVER.



TYPICAL SIGNAGE MOUNTING HEIGHT
SCALE: 3/4" = 1'-0"

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of PM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024.

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ASTRID M. HARD
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

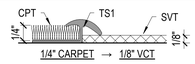
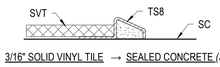
DRAWING
SIGNAGE LEGEND, SCHEDULE AND NOTES

SHEET
A-604

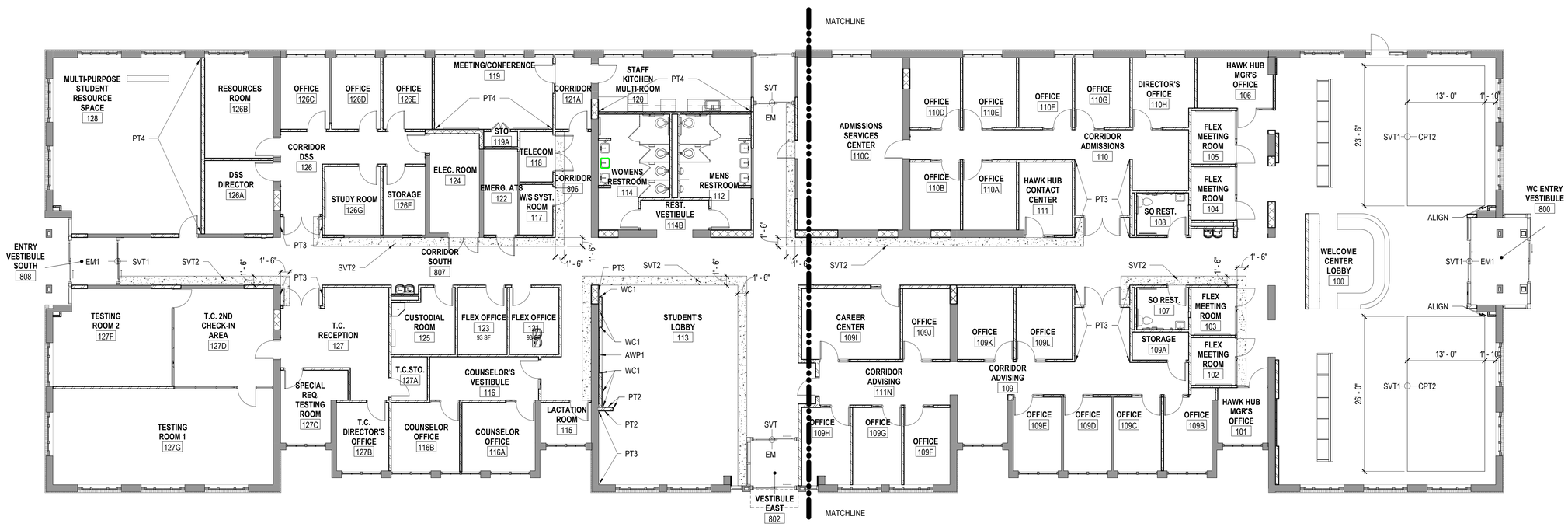
12/9/2022 12:26:12 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 v21 CSM Health Tech Building Reno - ARCH.rvt

TYPICAL TRANSITION STRIP DETAILS

NOTE: MANUFACTURER'S LISTED ARE BASIS OF DESIGN ONLY.

#	MAT	MANUF/ PRODUCT	DETAIL	NOTES
TS1	RESILIENT	JOHNSONITE, **CTA-XX-C** (OR EQ)		
TS2	STAINLESS STEEL	SCHLÜTER, **RENO-EU** (OR EQ)		

D1 / A-701 TYPICAL TRANSITION STRIP DETAILS
SCALE: 12" = 1'-0"



A1 / A-701 FIRST FLOOR - FLOOR PATTERN
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL
Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of PM&CD / Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH A. MAGNO No. 18837 ARCHITECT

PERMIT SET SUBMISSION

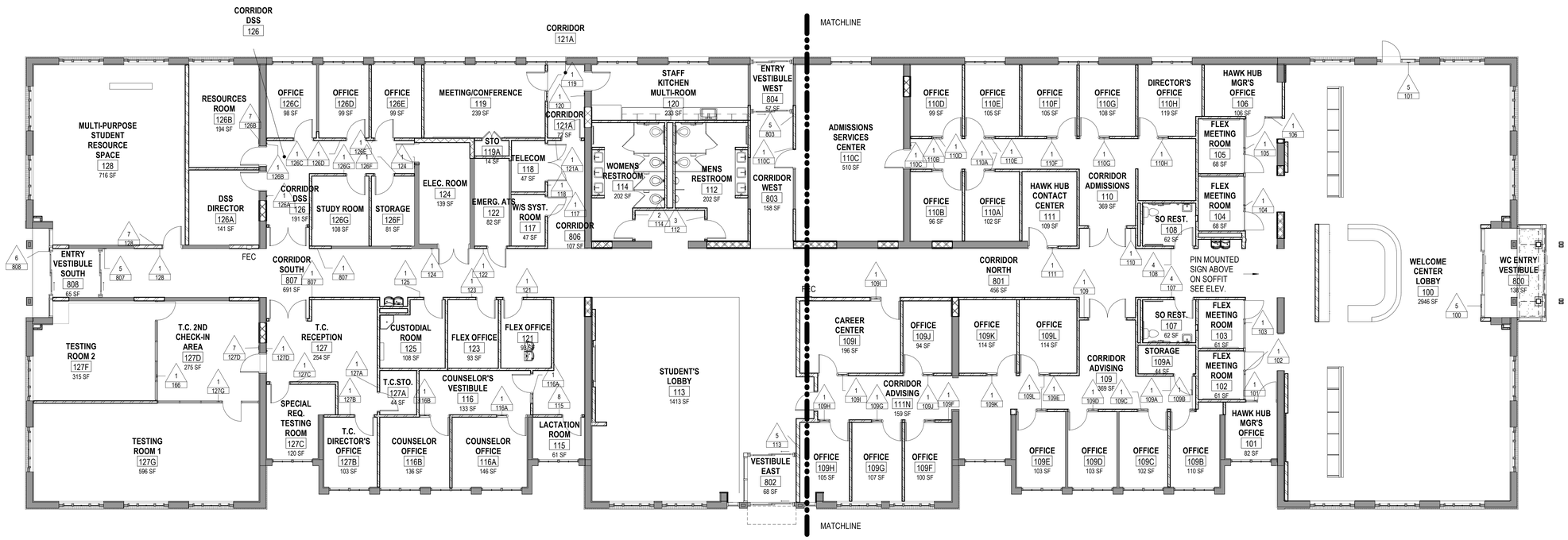
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - FINISH PLAN

SHEET
A-701

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Revs - ARCH.rvt
2/14/2023 12:56:41 PM



1 A-702 01-FIRST FLOOR SIGNAGE - new

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

TRUE NORTH

USING AGENCY APPROVAL

Name Date

Title DGS APPROVAL

Project Manager Date

Chief of P&A/ED Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022

PROJECT 21248-00

DESIGNED

DRAWN

CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ARCHITECT

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

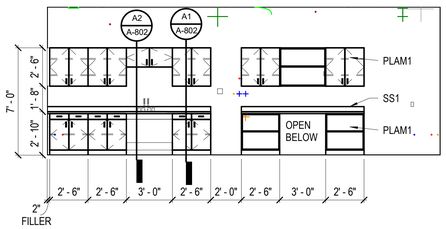
PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING FIRST FLOOR SIGNAGE PLAN

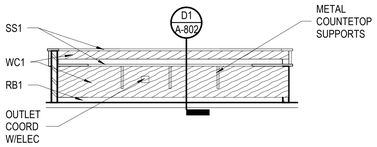
SHEET A-702

BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt

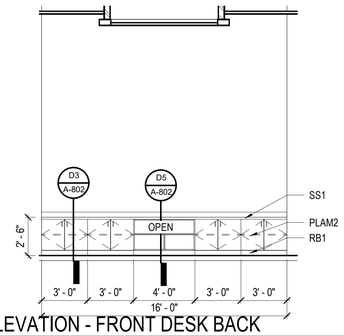
2/14/2023 1:00:29 PM



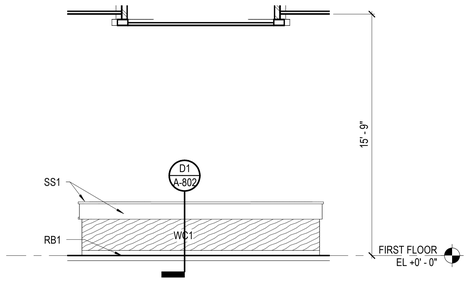
E1 A-801 KITCHEN EAST
SCALE: 1/4" = 1'-0"



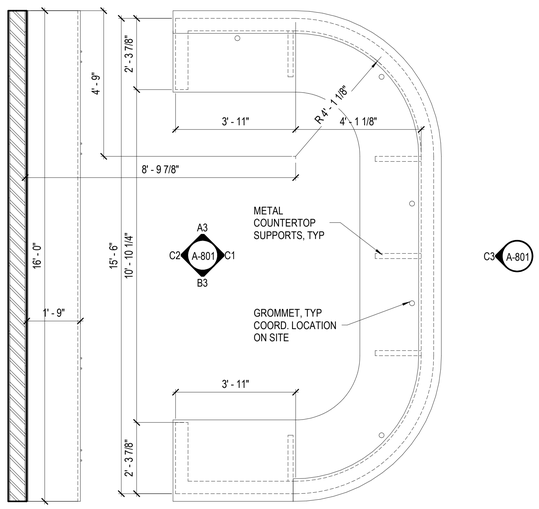
C1 A-801 ELEVATION - FRONT DESK FRONT
SCALE: 1/4" = 1'-0"



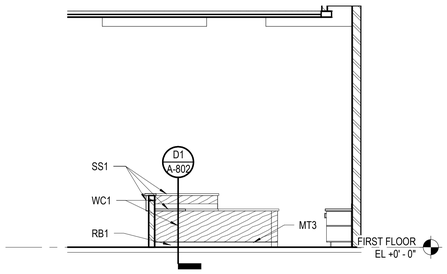
C2 A-801 ELEVATION - FRONT DESK BACK
SCALE: 1/4" = 1'-0"



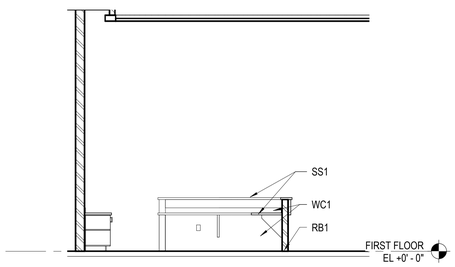
C3 A-801 ELEVATION - FRONT DESK
SCALE: 1/4" = 1'-0"



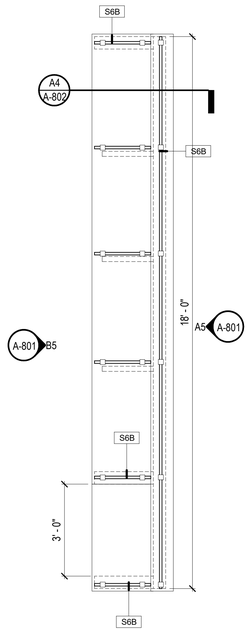
A1 A-801 ENLARGED PLAN - LOBBY FRONT DESK
SCALE: 1/2" = 1'-0"



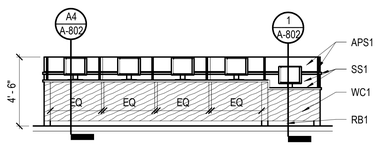
B3 A-801 ELEVATION - FRONT DESK INSIDE LEFT
SCALE: 1/4" = 1'-0"



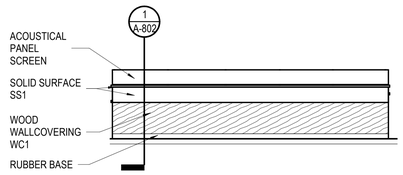
A3 A-801 ELEVATION - FRONT DESK RIGHT
SCALE: 1/4" = 1'-0"



A4 A-801 ENLARGED PLAN - COMPUTER STATIONS
SCALE: 1/2" = 1'-0"



B5 A-801 COMPUTER DESKS BACK
SCALE: 1/4" = 1'-0"



A5 A-801 COMPUTER DESK FRONT
SCALE: 1/4" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH W. MARVIN
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

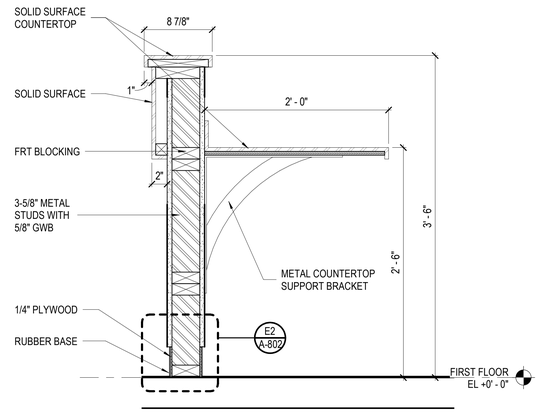
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

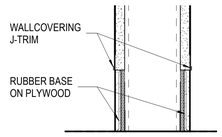
DRAWING
CASEWORK ELEVATIONS

SHEET
A-801

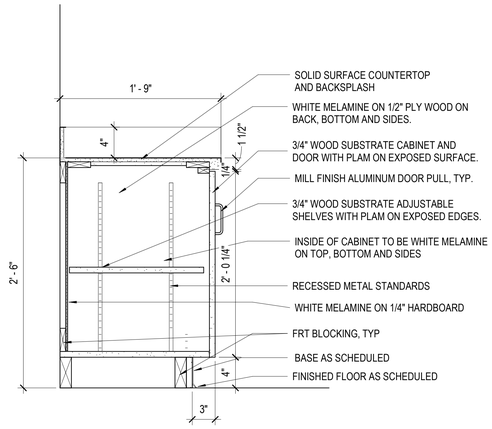
12/9/2022 12:26:24 PM BIM 360://21248-00 CSM Health Technology Building/21248-00 \21 CSM Health Tech Building Reno - ARCH.rvt



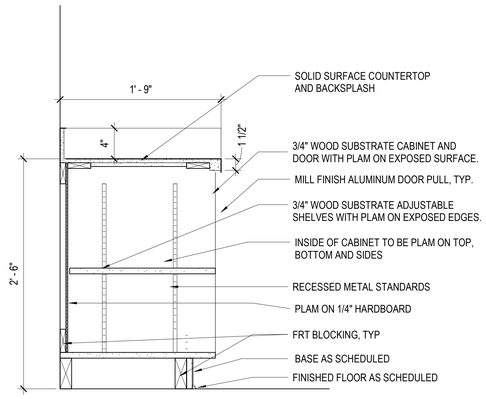
D1 A-802 SECTION @ DESK
SCALE: 1 1/2" = 1'-0"



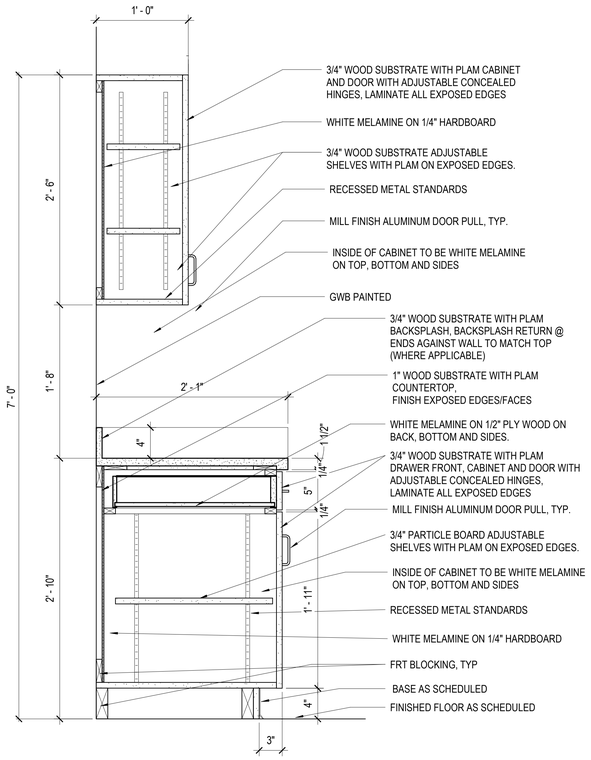
E2 A-802 DESK BASE
SCALE: 3" = 1'-0"



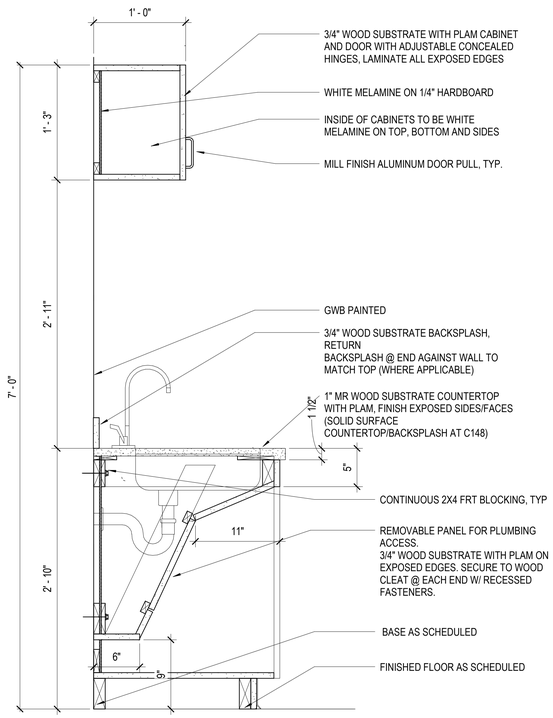
D3 A-802 BASE CABINET LOW
SCALE: 1 1/2" = 1'-0"



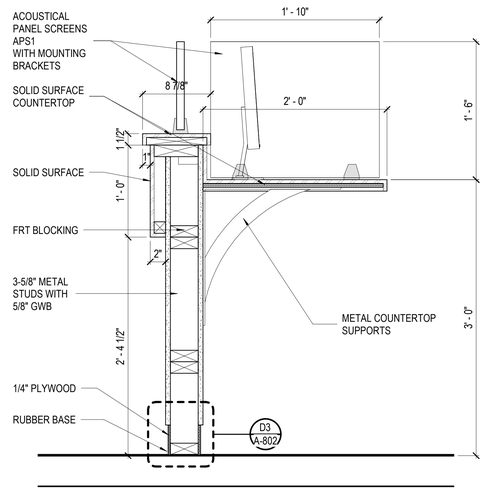
D5 A-802 OPEN SHELVES
SCALE: 1 1/2" = 1'-0"



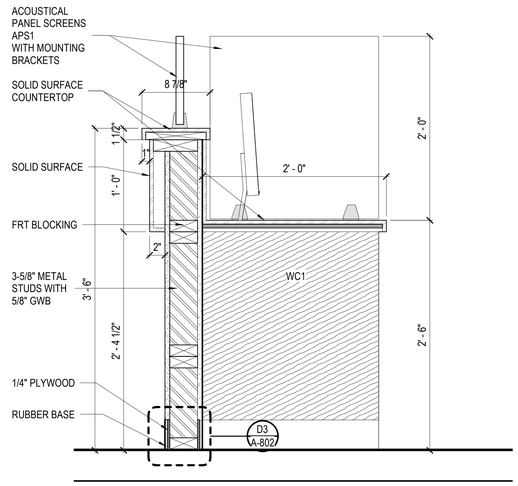
A1 A-802 WALL CABINET WITH BASE CABINET AND DRAWER
SCALE: 1 1/2" = 1'-0"



A2 A-802 WALL CABINET WITH SINK BELOW
SCALE: 1 1/2" = 1'-0"



A4 A-802 COMPUTER STATION
SCALE: 1 1/2" = 1'-0"



1 A-802 COMPUTER STATION LOW
SCALE: 1 1/2" = 1'-0"

USING AGENCY APPROVAL

Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of PM&AD: Date

MARK	DATE	BY	DESCR
REVISIONS			

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 18837 , expiration date 12/12/2024 .

DATE 12.09.2022
PROJECT 21248-00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
KEITH W. MARYLAND
No. 18837
ARCHITECT
12/9/2022

PERMIT SET SUBMISSION

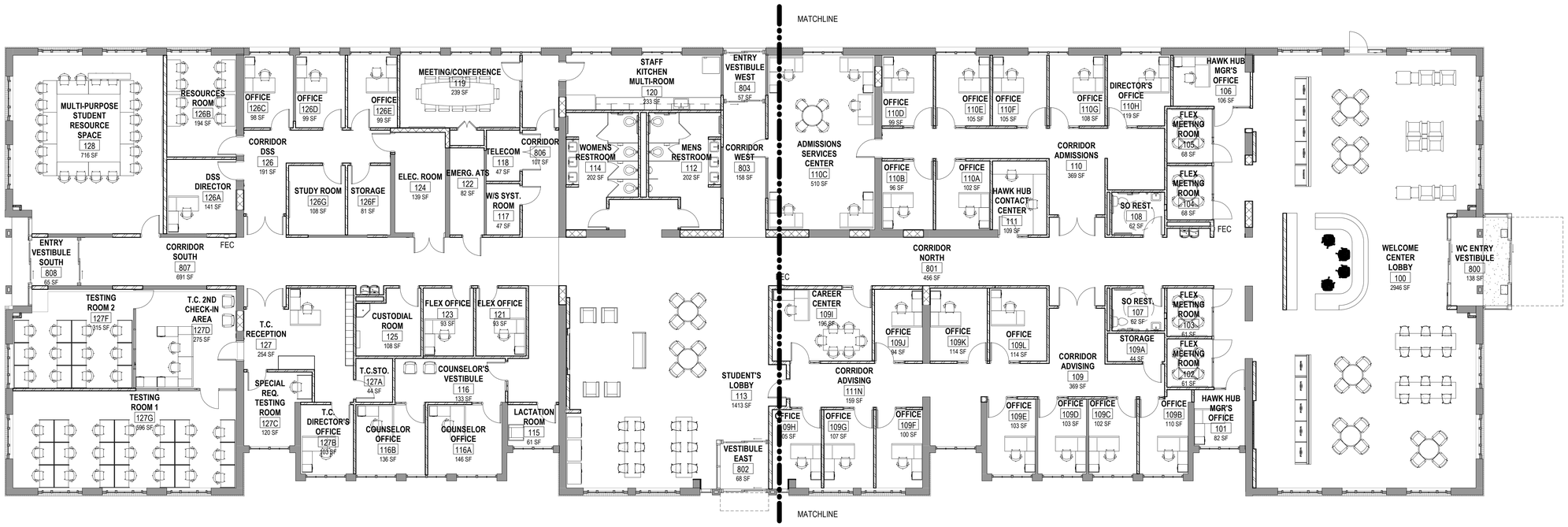
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
CASEWORK SECTIONS & DETAILS

SHEET
A-802

BIM 360://21248-00 CSM Health Technology Building/21248-00 / 21 CSM Health Tech Building Reno - ARCH.rvt
12/9/2022 12:26:35 PM



1 A-901 FIRST FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

FURNITURE IS NIC AND SHOWN FOR COORDINATION PURPOSES ONLY

TRUE NORTH

USING AGENCY APPROVAL

Name: Date:
Title:

DGS APPROVAL

Project Manager: Date:
Chief of PM&CD: Date:

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND KEITH M. WOLF No. 18837 ARCHITECT 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

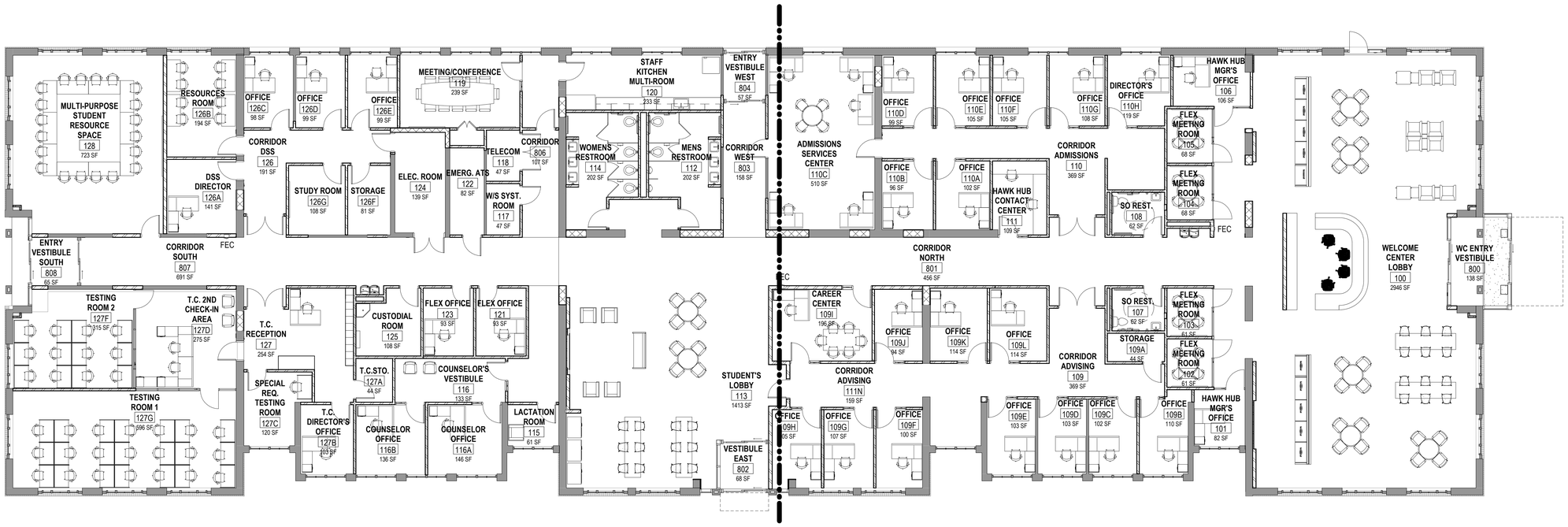
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR FURNITURE PLAN

SHEET
A-901

BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt

2/14/2023 1:02:19 PM



1 A-901 FIRST FLOOR FURNITURE PLAN

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

FURNITURE IS NIC AND SHOWN FOR COORDINATION PURPOSES ONLY

TRUE NORTH

USING AGENCY APPROVAL

Name Date

Title DGS APPROVAL

Project Manager Date

Chief of PM&CD Date

MARK	DATE	BY	DESCR

REVISIONS

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 18837 , expiration date 12/12/2024 .

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	MWH
DRAWN	HMB
CHECKED	KDL

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED ARCHITECT KIM TABAST 18837 12/09/2022

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING FIRST FLOOR FURNITURE PLAN

SHEET A-901

BIM 360://21248-00 CSM Health Technology Building/21248-00 /21 CSM Health Tech Building Reno - ARCH.rvt

12/9/2022 12:26:34 PM

GENERAL NOTES
(APPLY TO WORK PROVIDED UNDER DIV. 20):

1. PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE PLUMBING SYSTEMS AS SPECIFIED HEREIN AND INDICATED IN THE CONTRACT DOCUMENTS.OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS.
2. THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE CODE OF THE LOCAL AUTHORITY HAVING JURISDICTION.
3. "DRAWING NOTES" APPLY TO THE ENTIRE DRAWING ON WHICH THEY APPEAR, WHERE RELEVANT. "SPECIFIC NOTES" APPLY ONLY WHERE INDICATED WITH THE "SPECIFIC NOTE" SYMBOL.REFER TO LEGEND.
4. PROVIDE REQUIRED CLEARANCE FOR MAINTENANCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR AS REQUIRED BY CODE FOR MECHANICAL AND PLUMBING EQUIPMENT.
5. VERIFY THAT EXISTING EQUIPMENT THAT IS TO REMAIN IS FULLY FUNCTIONAL AND OPERATIONAL.
6. INCLUDE IN THE BID PRICE THE PAYMENT OF NECESSARY PERMITS. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE WORK MEETS THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
7. COORDINATE WITH THE OWNER FOR SCHEDULING OF WORK.
8. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
9. KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. PROPERLY AND LEGALLY DISPOSE OF MATERIALS.
10. JOB SITE SAFETY SHALL BE IN STRICT ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
11. VISIT THE SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS THAT MAY AFFECT THE BID.
12. EXISTING PLUMBING WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER PLUMBING ITEMS OR PLUMBING FIXTURES RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED.
13. WHERE EXISTING PLUMBING WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONNECTED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH NEW WORK AS INDICATED IN THE CONTRACT DOCUMENTS AND AS SPECIFIED.
14. DO NOT DISCONTINUE ANY PLUMBING SYSTEM SERVICE WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE USER AGENCY. THE PLUMBING SYSTEM OUTAGES SHALL BE KEPT TO A MINIMUM.
15. PROVIDE SUBMITTALS (SHOP DRAWINGS) FOR REVIEW FOR NEW MATERIALS AND EQUIPMENT. PRIOR TO SUBMITTING, REVIEW SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, CONFLICTS WITH OTHER TRADES, AND CONSTRUCTABILITY. IDENTIFY ANY DEVIATIONS IN SUBMITTALS FROM CONTRACT DOCUMENTS. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT INCLUDE REVIEW OF DIMENSIONS, DETAILS, OR QUANTITIES. REVIEW DOES NOT WAIVE ANY REQUIREMENTS OF CONTRACT DOCUMENTS, INCLUDING REQUIREMENT TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
16. WHEN MOUNTING PLUMBING WORK IN AREAS SUBJECT TO PEDESTRIAN TRAFFIC, MAINTAIN REQUIRED HEADROOM CLEARANCES.
17. PLUMBING MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS TO MAINTAIN THEIR RESPECTIVE UL RATING AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.
18. PLUMBING WORK SHALL BE CONCEALED IN FINISHED AREAS SHOWN ON THE ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE.
19. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS AND THE ELECTRICAL DRAWINGS FOR EXACT ELECTRICAL EQUIPMENT LOCATIONS. LOCATIONS PLUMBING EQUIPMENT AND PIPING ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN THE FIELD.
20. SEALING FITTINGS AND APPROVED SEALING COMPOUND SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE. SEAL AROUND PENETRATIONS OF FIRE-RATED WALLS WITH AN APPROVED SEALANT.
21. SANITARY AND DRAINAGE PIPING SHALL RUN MAXIMUM SLOPE EXISTING CONDITIONS ALLOW OR AT 1% SLOPE MINIMUM, UNLESS NOTED OTHERWISE. VERIFY INVERT OF EXISTING PIPING PRIOR TO BEGINNING WORK.
22. LOCATIONS OF DRAINS AND CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE COORDINATED WITH FLOOR PLANS, EQUIPMENT CUTS AND MECHANCIAL/ELECTRICAL/STRUCTURAL PLANS. NO WORK SHALL BE INSTALLED UNTIL LOCATIONS HAVE BEEN VERIFIED.
23. PLUMBING FIXTURES SHALL BE CAULKED TO THE ADJOINING FLOOR OR WALL SURFACE.
24. PROVIDE CLEANOUTS IN SANITARY AND DRAIN LINES EVERY 50 FEET UNLESS INDICATED AT CLOSER INTERVALS ON THE DRAWINGS AND AT CHANGES OF DIRECTION.
25. THE PLUMBING FIXTURE SCHEDULE AND SPECIFICATIONS SUPERCEDE THE SYMBOLS INDICATED ON THE FLOOR PLANS.
26. PIPE DROPS IN EXTERIOR WALLS SHALL BE INBOARD OF INSULATION.
27. EXTEND VENT PIPING FROM GAS PRESSURE REGULATORS TO DISCHARGE TO THE EXTERIOR.

COMPLETE SPECIFIC NOTES - PLUMBING NEW	
P1	MAKE CONNECTION TO EXISTING VENT PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P2	MAKE CONNECTION TO EXISTING DOMESTIC WATER PIPING TO BATHROOM/DRINKING FOUNTAIN.
P3	MAKE CONNECTION TO EXISTING SANITARY PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P4	CONTRACTOR TO VERIFY INVERT PRIOR TO BEGINNING WORK. 1.3' OF FALL IS REQUIRED TO MEET 2% SLOPE.
P5	CAP EXISTING PIPING BELOW SLAB AND PATCH TO MATCH EXISTING.
P6	MAKE CONNECTION FOR WH-1 TO EXISTING PIPING.
P7	MAKE CONNECTION FOR CP-1 TO NEW PIPING.
P8	PROVIDE NEW FIRE SERVICE TO THE BUILDING. DOUBLE CHECK DETECTOR ASSEMBLY AND ZONE VALVES SHALL BE LOCATED WITHIN THIS ROOM.

COMPLETE SPECIFIC NOTES - PLUMBING DEMO	
PD1	REMOVE EXISTING LAVATORIES WITHIN GANG BATHROOM.
PD2	REMOVE EXISTING WATER CLOSETS WITHIN GANG BATHROOM.
PD3	REMOVE EXISTING URINALS WITHIN GANG BATHROOM.
PD4	REMOVE EXISTING SINK.
PD5	REMOVE EXISTING CW, HW, AND V PIPING.CAP BACK TO MAIN WATER TIGHT.
PD6	REMOVE EXISTING LAB SINK WITHIN SCIENCE LABORATORY AND CAP PIPING BELOW FLOOR.PATCH FLOOR TO MATCH EXISTING.
PD7	REMOVE EXISTING SANITARY PIPING AND CAP PIPING BELOW FLOOR. PATCH FLOOR TO MATCH EXISTING.
PD8	REMOVE EXISTING DRINKING FOUNTAIN.
PD9	REMOVE EXISTING WATER HEATER AND PREPARE PLUMBING CONNECTIONS FOR RECONNECTION UNDER NEW WORK.
PD10	REMOVE EXISTING CIRCULATING PUMP AND PREPARE PLUMBING CONNECTIONS FOR RECONNECTION UNDER NEW WORK.

GENERAL DEMOLITION NOTES
(APPLY TO WORK PROVIDED UNDER DIV. 20):

1. DEMOLITION WORK IS GENERALLY INDICATED AS PART OF THESE NOTES AND THE NOTES INDICATED ON THE ARCHITECTURAL DEMOLITION PLANS.
2. VERIFY THAT EXISTING PIPING, EQUIPMENT, ETC. THAT IS CALLED FOR REMOVAL IS NO LONGER IN SERVICE BEFORE BEGINNING DEMOLITION.
3. THE DEMOLITION NOTES INDICATE THE MAIN COMPONENTS OF SYSTEMS AND EQUIPMENT THAT SHALL BE REMOVED UNDER THIS CONTRACT. IF SYSTEMS AND EQUIPMENT ARE FOUND DURING CONSTRUCTION THAT THE OWNER AUTHORIZES FOR REMOVAL BUT HAVE NOT BEEN SPECIFICALLY CALLED FOR DEMOLITION, REMOVE THE SYSTEMS AND EQUIPMENT.
4. WHEN THE WORK SPECIFIED HEREUNDER CONNECTS TO ANY EXISTING EQUIPMENT, PIPING, ETC., PERFORM NECESSARY ALTERATIONS, CUTTING, FITTING, ETC. OF THE EXISTING WORK AS MAY BE NECESSARY OR REQUIRED TO MAKE SATISFACTORY CONNECTIONS BETWEEN THE NEW AND EXISTING WORK AND LEAVE THE COMPLETE WORK IN A FINISHED AND WORKMANLIKE CONDITION.
5. WHEN THE WORK SPECIFIED UNDER OTHER DIVISIONS NECESSITATES RELOCATION OF EXISTING EQUIPMENT, PIPING, ETC. PERFORM WORK AND MAKE NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION.
6. REMOVE FROM THE PREMISES AND DISPOSE OF EXISTING PIPING, MATERIAL, FIXTURES, EQUIPMENT, ETC. NOT REQUIRED FOR RE- USE OR RE-INSTALLATION.
7. DELIVER ON THE PREMISES WHERE DIRECTED EXISTING MATERIAL AND EQUIPMENT WHICH IS REMOVED AND IS DESIRED BY THE OWNER OR IS INDICATED TO REMAIN THE PROPERTY OF THE OWNER.
8. OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
9. PIPING ABANDONED IN CONCRETE SLABS, WALLS, OR OTHER INACCESSIBLE LOCATIONS SHALL BE LEFT EMPTY.

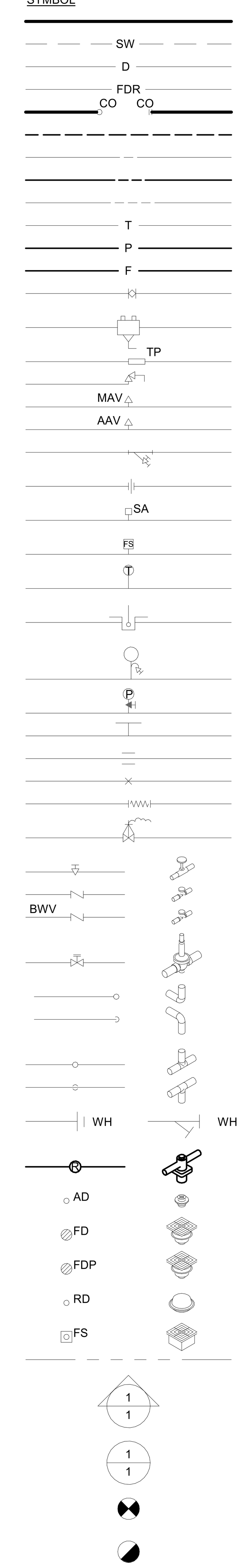
GENERAL NOTES : FIRE PROTECTION
(APPLY TO WORK PROVIDED UNDER DIV. 20):

1. THE GENERAL NOTES OF SECTION 20 APPLY TO WORK PERFORMED UNDER THIS SECTION.
2. DESIGN AND PROVIDE A COMPLETE FIRE SUPPRESSION SYSTEM. THIS SYSTEM SHALL INCLUDE THE NECESSARY DEVICES, APPURTENANCES, ETC., TO PROVIDE A FULLY FUNCTIONAL SYSTEM CONFORMING TO THE REQUIREMENTS OF THE APPLICABLE NFPA STANDARDS AND THE LOCAL OFFICE OF THE FIRE MARSHAL AND/OR THE AUTHORITY HAVING JURISDICTION (AHJ)
3. A SET OF FIRE SUPPRESSION SYSTEM SHOP DRAWINGS AS REQUIRED BY NFPA AND LOCAL JURISDICTION SHALL BE SUBMITTED TO THE ARCHITECT FOR GENERAL REVIEW. AFTER GOVERNMENTAL AND REGULATORY AGENCY APPROVALS HAVE BEEN OBTAINED, PROVIDE A COPY OF THE APPROVED SHOP DRAWINGS TO THE ARCHITECT FOR RECORD PURPOSES. THE SUBMITTAL SHALL INCLUDE MANUFACTURER'S DATA SHEETS AND HYDRAULIC CALCULATIONS. NO INSTALLATION OF THE SYSTEM SHALL BE MADE UNTIL APPROVAL FROM THE APPLICABLE AHJ IS OBTAINED. SYSTEM SHOWN ON THE CONTRACT DRAWINGS IS SCHEMATIC AND IS INTENDED FOR USE AS A GUIDE. DEPARTURES FROM THE SYSTEM INDICATED ON THE CD'S SHALL BE SPECIFICALLY CALLED OUT IN THE SHOP DRAWING SUBMITTALS.
4. SPRINKLER PIPING IN UNHEATED AREAS SHALL BE PROTECTED FROM FREEZING AS REQUIRED BY NFPA. DRY SIDEWALL HEADS MAY BE USED FROM THE WET SYSTEM FOR SMALL AREAS PROVIDED THE HEADS ARE ABLE TO MEET THE COVERAGE REQUIREMENTS OUTLINED IN NFPA AND THE BUILDING ARCHITECTURE CAN ACCOMMODATE THE ASSOCIATED PIPING. PROVIDE COMPLETE DRY SYSTEMS IN LARGE UNHEATED AREAS, SUCH AS ATTICS, LARGE COVERED PORCHES & BALCONIES, CARPORTS, GARAGES, ETC. “TENTING” OF INSULATION ABOVE WET PIPING IN AN UNHEATED SPACE IS NOT ACCEPTABLE. DETERMINE THE NUMBER AND SIZE OF DRY SYSTEMS TO COVER AREAS OF THE PROJECT AS REQUIRED BY NFPA.
5. HORIZONTAL PIPING MAY ONLY OCCUR ON THE TOP FLOOR IF IT IS CONTAINED WITHIN THE CONDITIONED BUILDING ENVELOPE, SUCH AS CONCEALED IN WALLS OR IN BULKHEADS DROPPED BELOW THE CEILING. INSULATING ABOVE WET PIPING IN AN UNHEATED SPACE IS NOT ACCEPTABLE.
6. AREAS SUCH AS VERTICAL SHAFTS, TRASH CHUTES, LAUNDRY CHUTES, ETC. SHALL BE PROTECTED AS OUTLINED IN NFPA. SPRINKLER HEADS SHALL BE PROVIDED FOR MECHANICAL CLOSETS.
7. ROUTING OF SPRINKLER LINES AND/OR SPRINKLERS HEADS THAT REQUIRE ADDITIONAL ARCHITECTURAL FEATURES LIKE BULKHEADS OR CHASES SHALL BE SPECIFICALLY IDENTIFIED IN THE SHOP DRAWING SUBMITTAL.
8. INFORMATION AVAILABLE TO BIDDERS: THIS ARTICLE AND THE FOLLOWING FLOW TEST DATA AND WATER SUPPLY CALCULATIONS ARE MADE AVAILABLE FOR THE BIDDER'S CONVENIENCE AND ARE NOT PART OF THE CONTRACT DOCUMENTS AND DO NOT RELIEVE THE BIDDERS FROM PERFORMING THEIR OWN INVESTIGATION TO DETERMINE THE ACCURACY OF THE INFORMATION.
   - a. FLOW TEST DATA
     - i. TEST DATE AND TIME:
     - ii. TEST CONDUCTED BY:
     - iii. FLOW HYDRANT LOCATION:
     - iv. TEST HYDRANT LOCATION:
     - v. TEST HYDRANT ELEVATION:
     - vi. STATIC PRESSURE:
     - vii. RESIDUAL PRESSURE:
     - viii. FLOW RATE:
   - b. WATER SUPPLY CALCULATIONS
     - i. STANDPIPE FLOW - 500 GPM FOR THE FIRST STANDPIPE, 250 GPM PER ADDITIONAL STANDPIPE UP TO 1000 GPM FOR FULLY SPRINKLERED BUILDINGS.
     - ii. DESIGN FOR DENSITY OF X.XX GPM PER REMOTE X,XXX SQUARE FEET. ALLOWING 50% FOR OVERAGE, DESIGN FLOW BECOMES (DESIGN DENSITY)*(REMOTE AREA) * 1.5 = XXX GPM. MAKING DESIGN FLOW RATE XXX GPM + 250 GPM HOSE STREAM ALLOWANCE = XXX GPM
   - c. PRESSURE LOSSES CALCULATIONS :

PRESSURE LOSS CALCULATIONS					
					PSI
AVAILABLE PRESSURE FROM FLOW TEST AT DESIGN FLOW RATE					0.0
A. PIPE LOSS SERVICE TO BUILDING	0	FT	0	Friction loss (ft/100 ft)	0.0
B. FLOW HYDRANT ELEVATION	0	FT			
WATER SERVICE ENTRANCE ELEVATION	0	FT			0.0
C. BACKFLOW PREVENTION DEVICE	FROM BOD AT DESIGN FLOW RATE				0.0
D. ELEVATION AT WATER SERVICE ENTRANCE	0	FT			
ELEVATION AT HIGHEST SPRINKLER HEAD	0	FT			0.0
- HIGH RISE (100 psi) AT TOP ?	0				0.0
E. SPRINKLER HEAD LOSS	FROM BOD SPRINKLER HEAD				0.0
F. INSIDE PIPING ALLOWANCE	0	FT	0	Friction loss (ft/100 ft)	0.0
H. SUBTOTAL					0.0
I. ADD 10% SAFETY					0.0
J. TOTAL PRESSURE DROP					0.0
K. AVAILABLE REMAINING DESIGN PRESSURE					0.0

9. BASED UPON THE CALCULATIONS SHOWN IN INFORMATION AVAILABLE TO BIDDERS, A FIRE PUMP [IS] [IS NOT] REQUIRED WITH THE INDICATED ALLOWANCE FOR PIPING LOSSES. VERIFY THESE CALCULATIONS. IF CALCULATIONS SHOW [A FIRE PUMP] [A LARGER PUMP] IS REQUIRED, THE COST OF THE [PUMP] [LARGER PUMP] AND RELATED WORK (INCLUDING, BUT NOT LIMITED TO, POWER SUPPLY, EMERGENCY POWER, FIRE ALARM SYSTEM, CONSTRUCTION OF THE PUMP ROOM AND CONCRETE PADS) SHALL BE PROVIDED AS A NEGOTIATED CHANGE. HOWEVER, THE COST OF THE LARGE PIPING AND LOW PRESSURE HEADS TO AVOID A PUMP OR LARGER PUMP SHALL BE INCLUDED IN THIS CONTRACT. THE OWNER WILL RETAIN THE OPTION TO REQUIRE LARGER PIPE SIZES IN LIEU OF A FIRE PUMP OR A LARGER FIRE PUMP.
10. HOSE CONNECTIONS ARE SHOWN AT THE INTERMEDIATE LANDINGS PER THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE COORDINATE LOCATION OF HOSE CONNECTIONS WITH AUTHORITY HAVING JURISDICTION, PRIOR TO THE GENERATION AND SUBMISSION OF SHOP DRAWINGS.

PLUMBING L LEGEND



ABBREV	DESCRIPTION
SP,SAN	SANITARY PIPE
SW	STORM WATER
D	DRAIN
FDR	FOUNDATIONDRAIN
CO	CLEANOUT
VP	VENTPIPE
CW	COLD WATER
HW	HOT WATER
HWC	HOT WATER CIRCULATING
T	TEMPERED WATER
P	LIQUID PROPANE
F	FIRE LINE
	FLOW METER FITTING
	REDUCED PRESSURE ZONE BACKFLOWPREVENTER
TP	TRAP PRIMER
	RELIEFVALVE
MAV	MANUAL AIR VALVE
AAV	AUTOMATIC AIR VALVE
	STRAINERW/VALVE
	UNION
SA	SHOCK ABSORBER
	FLOW SWITCH
	THERMOMETER
	THERMOMETER WELL
	PRESSURE GAUGE W/ SYPHON & NEEDLE VALVE
	PRESSURE GAUGE W/NEEDLE VALVE
PG	PRESSURE GAUGE TAPPING
	PIPE GUIDE
	ANCHOR
	FLEXIBLE PIPE CONNECTION
OS&Y	OS&Y VALVE W/ TAMPER SWITCH
	SHUTOFF VALVE
	CHECK VALVE
BWV	BACK WATER VALVE
PRV	PRESSURE REDUCING VALVE
	PIPE TURNING UP
	PIPE TURNING DOWN
	TEE TURNING UP
	TEE TURNING DOWN
WH	WALL HYDRANT
	GAS PRESSURE REGULATOR
AD	AREA DRAIN
FD	FLOOR DRAIN
FDP	FLOOR DRAIN WITH TRAP PRIMER
RD	ROOF DRAIN
FS	FLOORSINK
	MATCH LINE
	SECTION DESIGNATION
	CONNECT TO EXISTING
	DEMO TO THIS POINT
	DETAIL DESIGNATION
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CB	CATCH BASIN
CFH	CUBIC FEET HOUR
CFM	CUBIC FEET MINUTE
DIFF	DIFFUSER
EX	EXISTING
EXTR	EXISTING TO REMAIN
(FLOOR PLAN -M-1)	FOR CONTINUATION SEE FLOOR PLAN ON DRAWING M-1
GPM	GALLONS PER MINUTE
KW	KILOWATTS
MBH	THOUSAND BTU/HR
RX	REMOVE EXISTING
V-PH	VOLT-PHASE
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT

DRAWING LIST - PLUMBING	
SHEET NUMBER	SHEET NAME
P-001	SYMBOLS, NOTES AND ABBREVIATIONS
PD-100	LOWER FLOOR - DEMOLITION
PD-101	FIRST FLOOR - DEMOLITION
PD-102	ROOF - DEMOLITION
P-100	LOWER FLOOR - NEW WORK
P-101	FIRST FLOOR - NEW WORK
P-102	ROOF - NEW WORK
P-501	PLUMBING DETAILS
P-601	RISER DIAGRAMS
P-602	RISER DIAGRAMS
P-701	PLUMBING SCHEDULE

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL | Name | Date | Title
DGS APPROVAL | Project Manager | Date | Chief of PMM&D | Date

MARK | DATE | BY | DESCR
REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND · ANDREW H. JIN · 43951 · PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION
MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

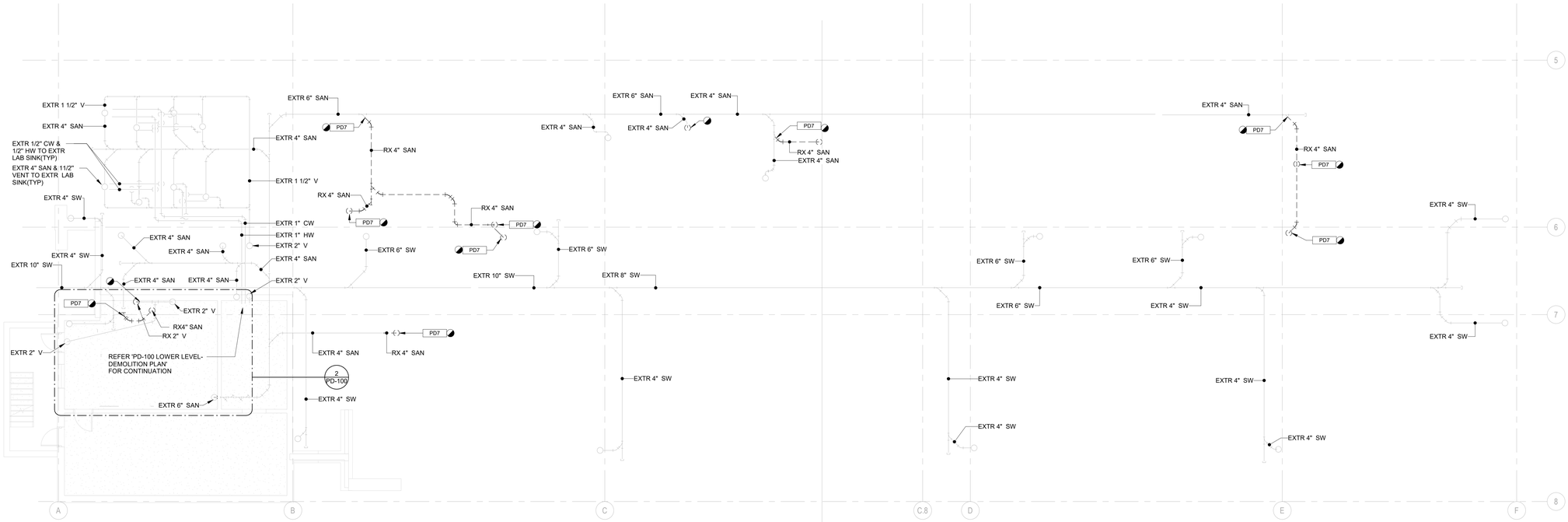
DRAWING: SYMBOLS, NOTES AND ABBREVIATIONS

SHEET
P-001

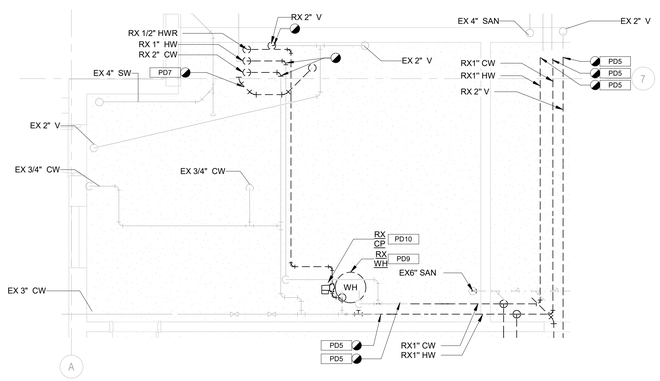
BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:52:53 PM

SPECIFIC NOTES - PLUMBING DEMO

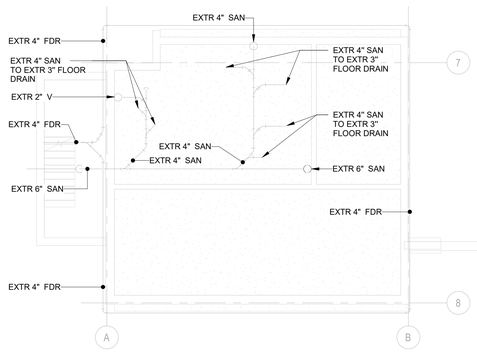
KEY VALUE	KEYNOTE TEXT
PD5	REMOVE EXISTING CW, HW, AND V PIPING.CAP BACK TO MAIN WATER TIGHT.
PD7	REMOVE EXISTING SANITARY PIPING AND CAP PIPING BELOW FLOOR. PATCH FLOOR TO MATCH EXISTING.
PD9	REMOVE EXISTING WATER HEATER AND PREPARE PLUMBING CONNECTIONS FOR RECONNECTION UNDER NEW WORK.
PD10	REMOVE EXISTING CIRCULATING PUMP AND PREPARE PLUMBING CONNECTIONS FOR RECONNECTION UNDER NEW WORK.



1 LOWER FLOOR - DEMOLITION PLUMBING
1/8" = 1'-0"



2 LOWER LEVEL - BOILER ROOM DEMOLITION-PLUMBING
1/4" = 1'-0"



3 FOUNDATION LEVEL - DEMOLITION-PLUMBING.
1/8" = 1'-0"

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

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of FM&AD / Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW W. HUNT 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

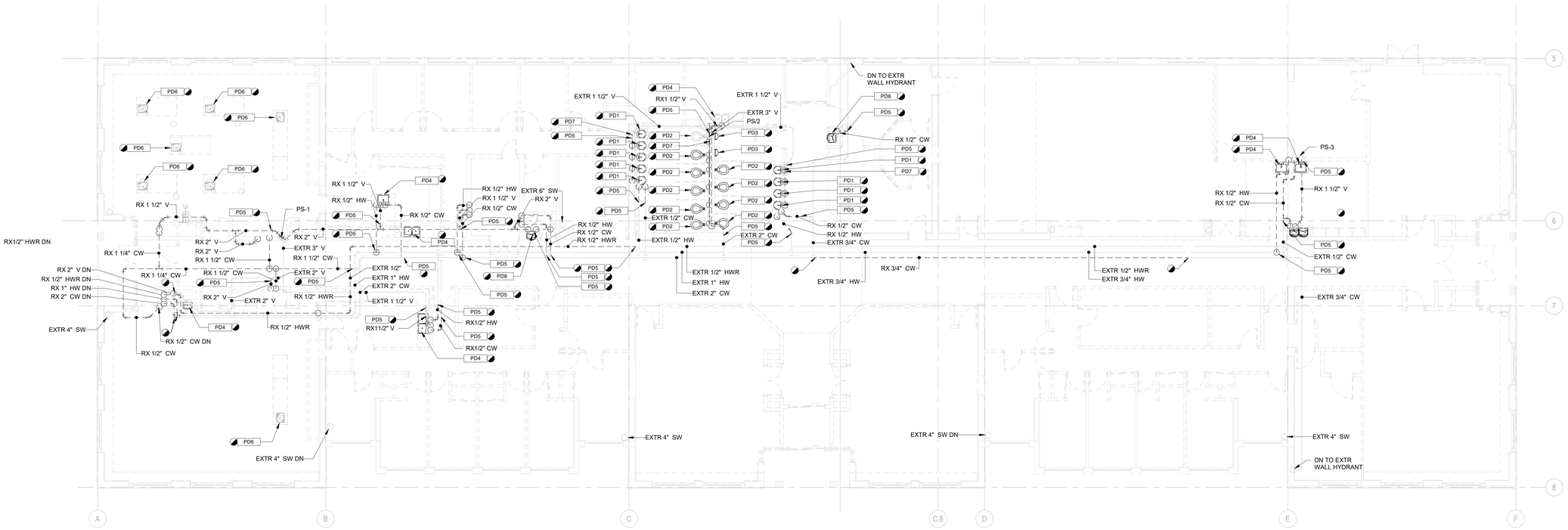
DRAWING
LOWER FLOOR - DEMOLITION

SHEET
PD-100

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:53:06 PM

SPECIFIC NOTES - PLUMBING DEMO

KEY VALUE	KEYNOTE TEXT
PD1	REMOVE EXISTING LAVATORIES WITHIN GANG BATHROOM.
PD2	REMOVE EXISTING WATER CLOSETS WITHIN GANG BATHROOM.
PD3	REMOVE EXISTING URINALS WITHIN GANG BATHROOM.
PD4	REMOVE EXISTING SINK.
PD5	REMOVE EXISTING CW, HW, AND V PIPING.CAP BACK TO MAIN WATER TIGHT.
PD6	REMOVE EXISTING LAB SINK WITHIN SCIENCE LABORATORY AND CAP PIPING BELOW FLOOR.PATCH FLOOR TO MATCH EXISTING.
PD7	REMOVE EXISTING SANITARY PIPING AND CAP PIPING BELOW FLOOR. PATCH FLOOR TO MATCH EXISTING.
PD8	REMOVE EXISTING DRINKING FOUNTAIN.



2 FIRST FLOOR - DEMOLITION PLUMBING
1/8" = 1'-0"

N

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

0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW M. VIDAL 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

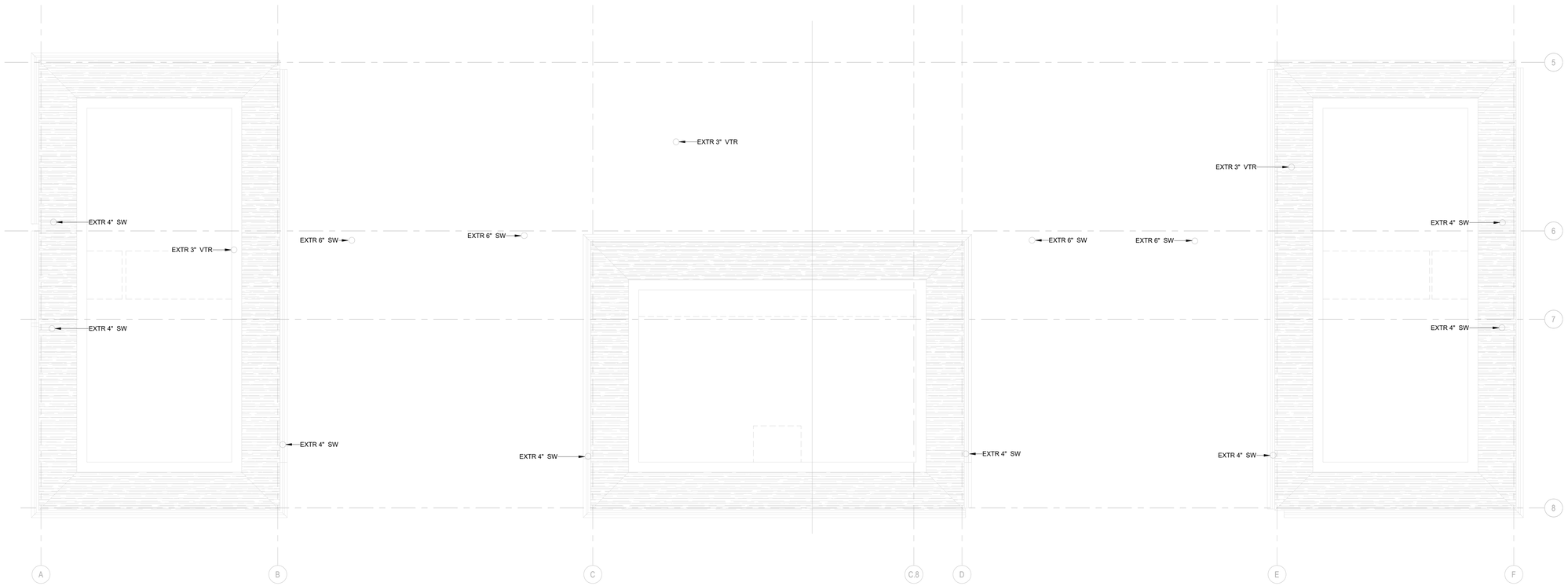
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - DEMOLITION

SHEET
PD-101

BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:53:08 PM

SPECIFIC NOTES - PLUMBING DEMO	
KEY VALUE	KEYNOTE TEXT



2 ROOF - DEMOLITION PLUMBING
1/8" = 1'-0"

N

GENERAL NOTE:
THERE IS NO PLUMBING DEMOLITION WORK TAKING PLACE ON THE ROOF. EXISTING CONDITIONS ARE SHOWN FOR INFORMATION ONLY.

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of P&A/ED Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW T. HUNT
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

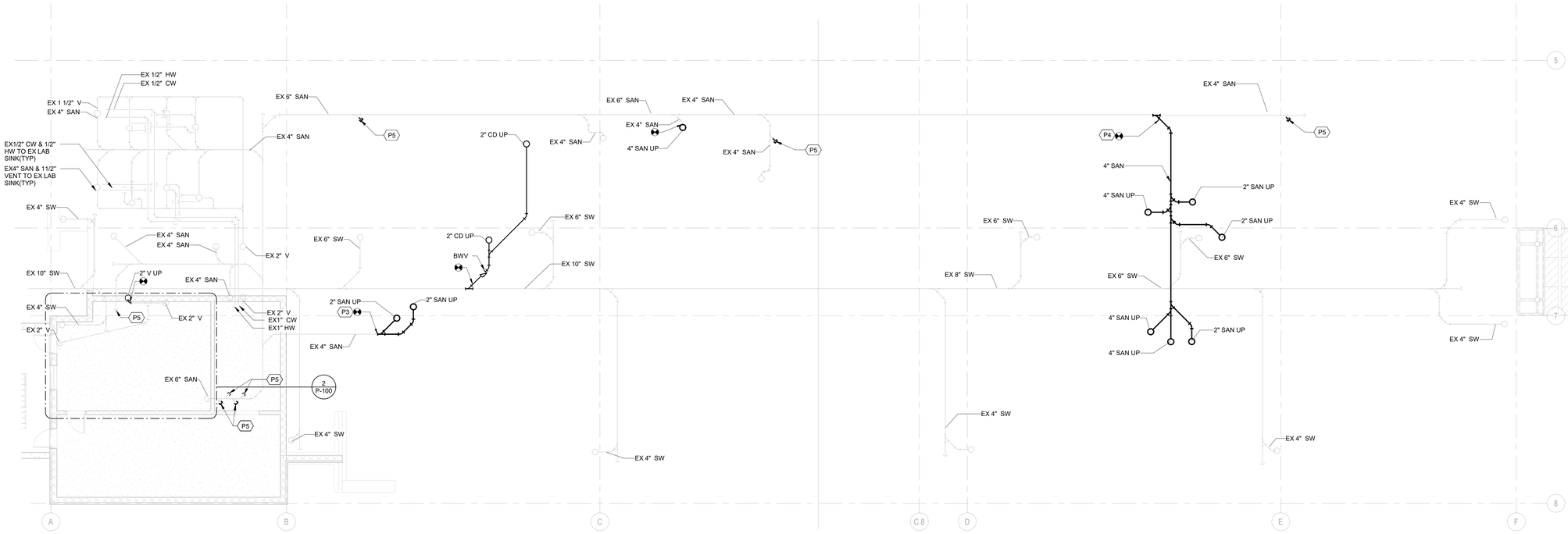
DRAWING
ROOF - DEMOLITION

SHEET
PD-102

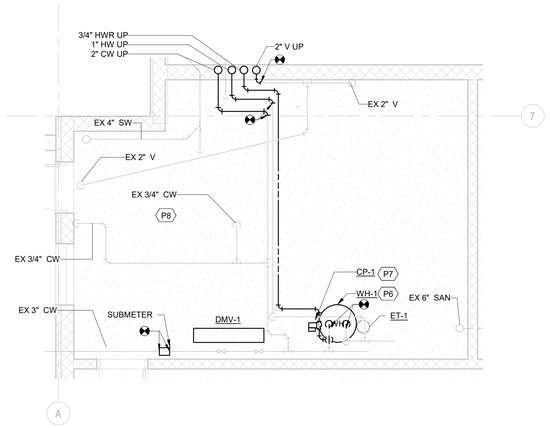
BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:53:08 PM

SPECIFIC NOTES - PLUMBING NEW

KEY VALUE	KEYNOTE TEXT
P3	MAKE CONNECTION TO EXISTING SANITARY PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P4	CONTRACTOR TO VERIFY INVERT PRIOR TO BEGINNING WORK. 1.3' OF FALL IS REQUIRED TO MEET 2% SLOPE.
P5	CAP EXISTING PIPING BELOW SLAB AND PATCH TO MATCH EXISTING.
P6	MAKE CONNECTION FOR WH-1 TO EXISTING PIPING.
P7	MAKE CONNECTION FOR CP-1 TO NEW PIPING.
P8	PROVIDE NEW FIRE SERVICE TO THE BUILDING. DOUBLE CHECK DETECTOR ASSEMBLY AND ZONE VALVES SHALL BE LOCATED WITHIN THIS ROOM.

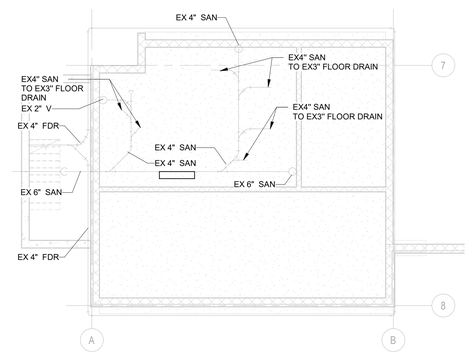


1 LOWER FLOOR - NEW WORK PLUMBING
1/8" = 1'-0"



2 LOWER LEVEL - BOILER ROOM NEW WORK-PLUMBING
1/4" = 1'-0"

1. SUBMETER BASIS OF DESIGN: DANIEL-L-JERMAN-CO, #DLJ250TC PROVIDE DRY CONTACT FOR BAS INTERFACE.



3 FOUNDATION LEVEL - NEW WORK-PLUMBING
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW W. RUDING 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

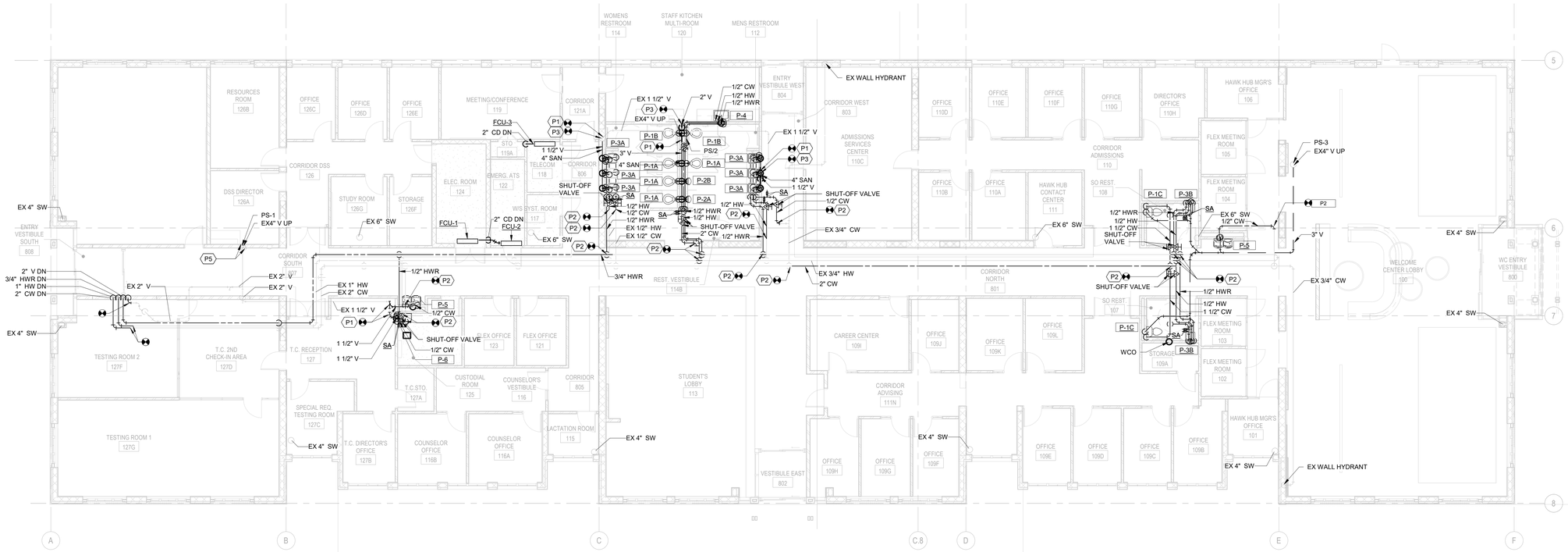
DRAWING
LOWER FLOOR - NEW WORK

SHEET
P-100

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:52:54 PM

SPECIFIC NOTES - PLUMBING NEW

KEY VALUE	KEYNOTE TEXT
P1	MAKE CONNECTION TO EXISTING VENT PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P2	MAKE CONNECTION TO EXISTING DOMESTIC WATER PIPING TO BATHROOM/DRINKING FOUNTAIN.
P3	MAKE CONNECTION TO EXISTING SANITARY PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P5	CAP EXISTING PIPING BELOW SLAB AND PATCH TO MATCH EXISTING.



2 FIRST FLOOR - NEW WORK PLUMBING
1/8" = 1'-0"

N

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW M. VIDAL 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

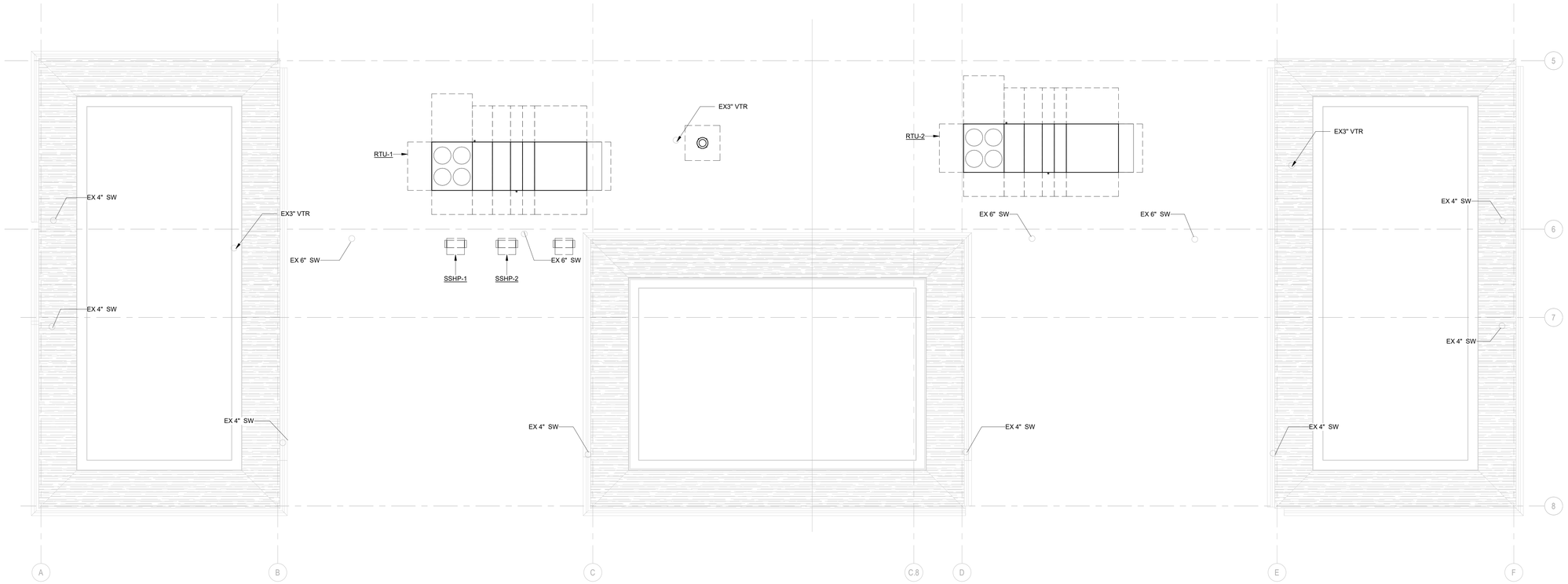
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - NEW WORK

SHEET
P-101

12/8/2022 5:52:58 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - PLUMBING NEW	
KEY VALUE	KEYNOTE TEXT



2 ROOF - NEW WORK PLUMBING
1/8" = 1'-0"

N

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW W. MUNN
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

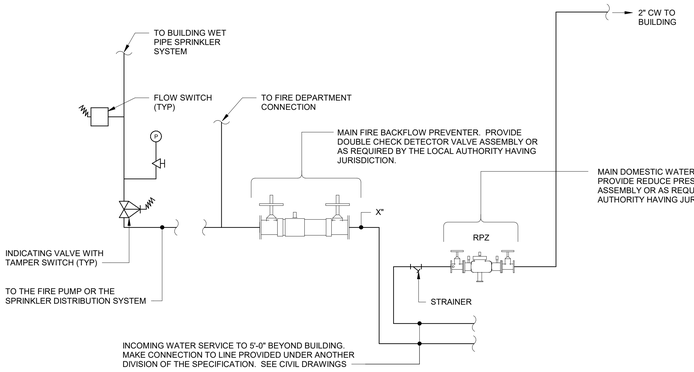
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ROOF - NEW WORK

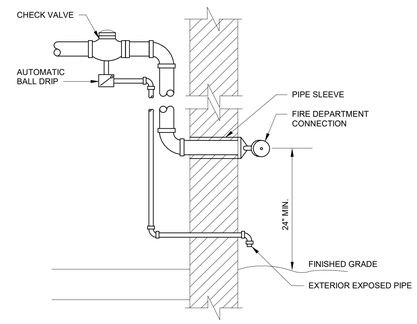
SHEET
P-102

BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:52:59 PM

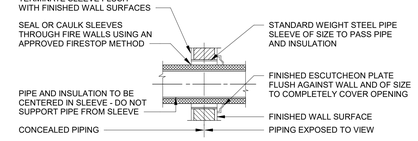


NOTE:
1. MAIN BACKFLOW PREVENTION DEVICE TO BE THE EQUIVALENT OF THE INCOMING PIPE SIZE

1 FIRE AND DOMESTIC WATER SERVICE DIAGRAM
NO SCALE

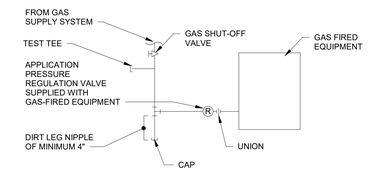


2 FIRE DEPARTMENT CONNECTION
12" = 1'-0"

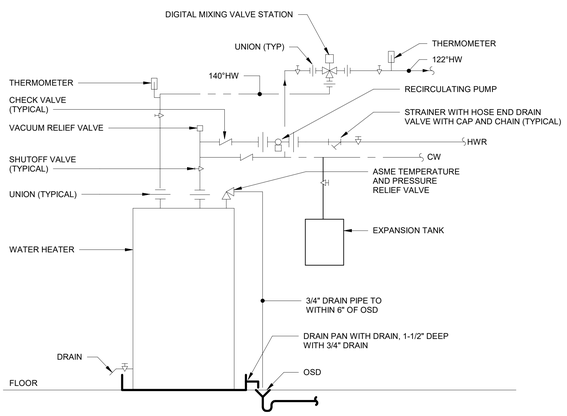


NOTES:
1. REFER TO ARCHITECTURAL DRAWING FOR TYPES OF WALLS & CONSTRUCTION.
2. PROVIDE SLEEVES @ RATED WALL PENETRATIONS.
3. PACK AND CAULK WALLS TO MEET THE WALLS SOUND (STC) RATING AND FIRE RATINGS.

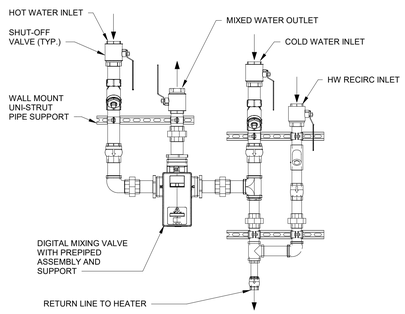
3 TYPICAL SLEEVE THROUGH INTERIOR WALL
NO SCALE



4 TYPICAL GAS CONNECTION DETAIL
NO SCALE

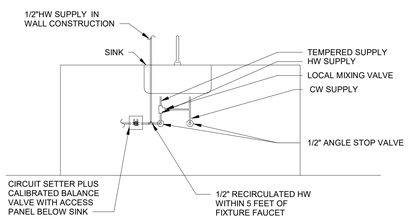


5 WATER HEATER PIPING DETAIL WITH RECIRCULATING PUMP
NO SCALE

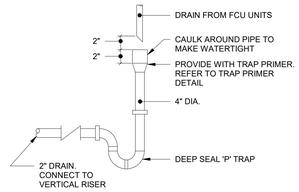


NOTES:
1. REFER TO PLAN FOR PIPE SIZES.
2. PREPIPED SYSTEM SHALL INCLUDE INLET CHECK VALVES AND STRAINERS.

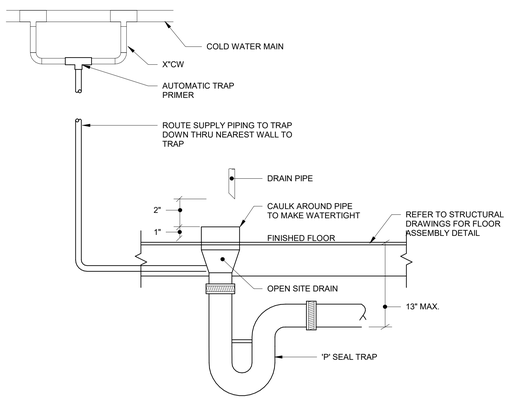
6 DIGITAL MIXING VALVE STATION DETAIL
NO SCALE



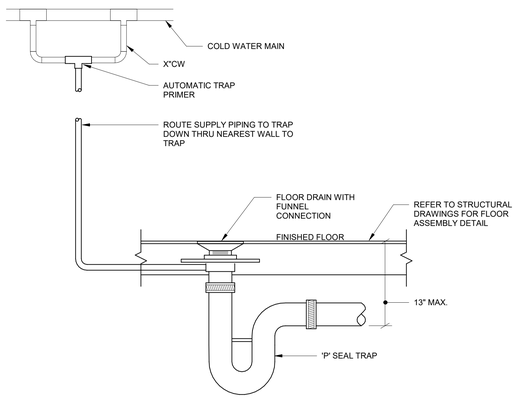
7 LAVATORY/SINK TEMPERING VALVE AND RECIRCULATION DETAIL
NO SCALE



8 TYPICAL OPEN SITE DRAIN DETAIL
12" = 1'-0"



9 TYPICAL OPEN SITE DRAIN WITH TRAP PRIMER
NO SCALE



10 FLOOR DRAIN WITH TRAP PRIMER
NO SCALE

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date
Title: DGS APPROVAL
Project Manager | Date
Chief of FM&AD | Date

MARK	DATE	BY	DESCR
REVISIONS			

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW R. UNK 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

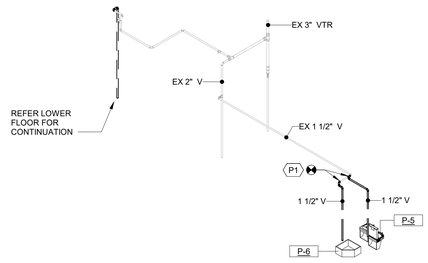
DRAWING
PLUMBING DETAILS

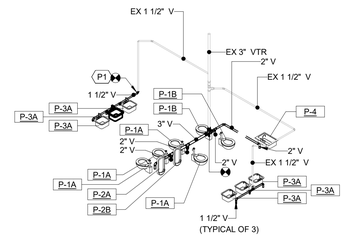
SHEET
P-501

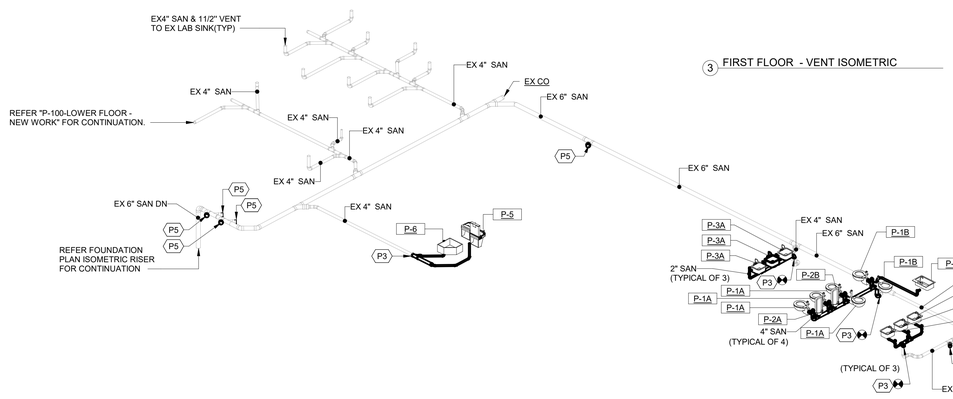
12/8/2022 5:52:59 PM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - PLUMBING NEW

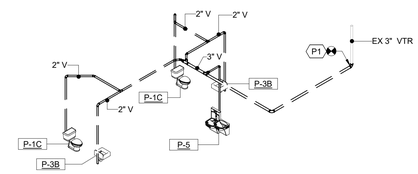
KEY VALUE	KEYNOTE TEXT
P1	MAKE CONNECTION TO EXISTING VENT PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P3	MAKE CONNECTION TO EXISTING SANITARY PIPING TO ROUTE TO BATHROOM/DRINKING FOUNTAIN.
P4	CONTRACTOR TO VERIFY INVERT PRIOR TO BEGINNING WORK. 1.3' OF FALL IS REQUIRED TO MEET 2% SLOPE.
P5	CAP EXISTING PIPING BELOW SLAB AND PATCH TO MATCH EXISTING.



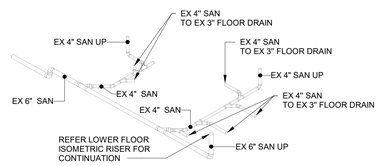




3 FIRST FLOOR - VENT ISOMETRIC



2 LOWER FLOOR - SANITARY ISOMETRIC



1 FOUNDATION PLAN - SANITARY ISOMETRIC

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of FM&AD / Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW M. RUBIN 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

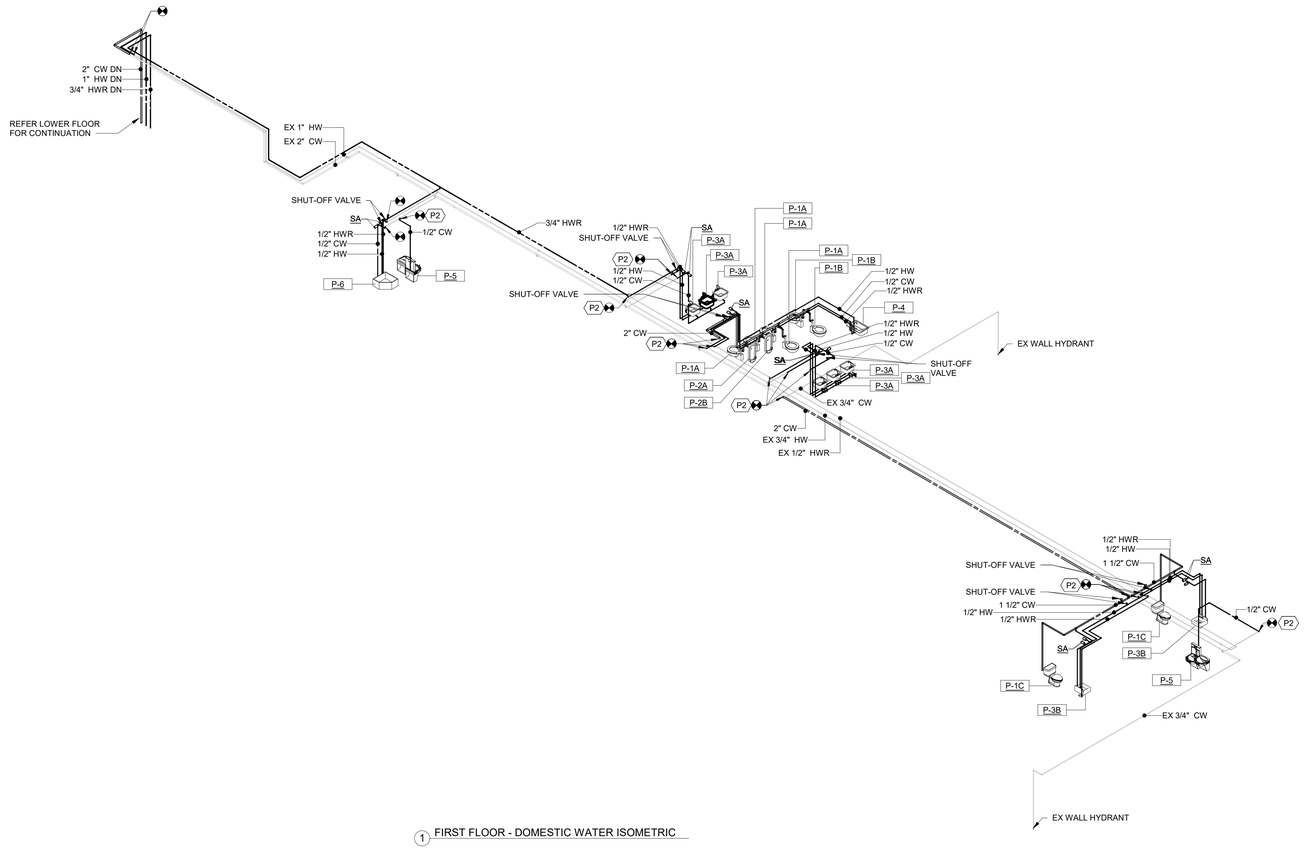
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
RISER DIAGRAMS

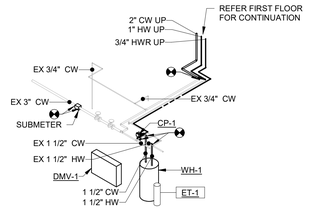
SHEET
P-601

BIM 360://212348-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:53:01 PM

SPECIFIC NOTES - PLUMBING NEW	
KEY VALUE	KEYNOTE TEXT
P2	MAKE CONNECTION TO EXISTING DOMESTIC WATER PIPING TO BATHROOM/DRINKING FOUNTAIN.



1 FIRST FLOOR - DOMESTIC WATER ISOMETRIC



2 LOWER FLOOR - DOMESTIC WATER ISOMETRIC

1. SUBMETER BASIS OF DESIGN: DANIEL-L-JERMAN-CO, #DLJ250TC PROVIDE DRY CONTACT FOR BAS INTERFACE.

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW M. RIDDLE 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646
DRAWING RISER DIAGRAMS

SHEET
P-602

12/8/2022 5:53:03 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

P - PLUMBING FIXTURE CONNECTION SCHEDULE

DESIG.	FIXTURE	CW SIZE	HW SIZE	WASTE	VENT
P-1A	WATER CLOSET	1 1/2"		4"	2"
P-1B	WATER CLOSET (ADA)	1 1/2"		4"	2"
P-1C	WATER CLOSET (ADA)	1 1/2"		4"	2"
P-2A	URINAL (ADA)	1 1/2"		2"	2"
P-2B	URINAL	1 1/2"		2"	2"
P-3A	LAVATORY	1/2"	1/2"	2"	2"
P-3B	LAVATORY	1/2"	1/2"	2"	2"
P-4	SINK	1/2"	1/2"	2"	2"
P-5	DRINKING FOUNTAIN	1/2"		2"	2"
P-6	MOP SINK	1/2"	1/2"	2"	2"

ELECTRICAL WATER HEATER SCHEDULE

DESIG	SERVING	RECOVERY RATE	STORAGE CAP. (GAL)	LOAD WATTAGE	ELECTRICAL		MANUFACTURER	SERIES
					VOLTAGE	PHASE		
WH-1	BUILDING	74 GPH	120	18.0 kW	208	3	AO SMITH	DRE-120

P - CIRCULATING PUMP SCHEDULE

DESIG.	SERVING	GPM	PUMP HEAD (FT)	MOTOR HP	MOTOR RPM	ELECTRICAL		MANUFACTURER	SERIES
						VOLTAGE	PHASE		
CP-1	BUILDING	5	25	1/6	3300	115	1	BELL & GOSSETT	PL-36B

EXPANSION TANK SCHEDULE

DESIG.	SERVING	TANK VOLUME	MAXIMUM ACCEPTANCE FACTOR	MANUFACTURER	SERIES ID
ET-1	BUILDING	10	1.0	AMTROL	ST-35CL

P - DIGITAL MIXING VALVE STATION

DESIG.	SERVING	GPM	PRESSURE DROP (PSIG)	ELECTRICAL		MANUFACTURER	SERIES
				VOLTAGE	PHASE		
DMV-1	HOT WATER SYSTEM	22	5	120	1	ARMSTRONG	DMC25

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW R. RUDY
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
PLUMBING SCHEDULE

SHEET
P-701

12/8/2022 5:53:04 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

GENERAL NOTES
(APPLY TO WORK PROVIDED UNDER DIV. 20):

1. PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS AS SPECIFIED HEREIN AND INDICATED IN THE CONTRACT DOCUMENTS. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS.
2. THE INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE CODE OF THE LOCAL AUTHORITY HAVING JURISDICTION.
3. "DRAWING NOTES" APPLY TO THE ENTIRE DRAWING ON WHICH THEY APPEAR, WHERE RELEVANT. "SPECIFIC NOTES" APPLY ONLY WHERE INDICATED WITH THE "SPECIFIC NOTE" SYMBOL. REFER TO LEGEND.
4. DUCTWORK TO BE SHEET METAL UNLESS NOTED OTHERWISE.
5. PROVIDE REQUIRED CLEARANCE FOR MAINTENANCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR AS REQUIRED BY CODE FOR MECHANICAL EQUIPMENT.
6. VERIFY THAT EXISTING EQUIPMENT THAT IS TO REMAIN IS FULLY FUNCTIONAL AND OPERATIONAL.
7. INCLUDE IN THE BID PRICE THE PAYMENT OF NECESSARY PERMITS. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE WORK MEETS THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
8. COORDINATE WITH THE OWNER FOR SCHEDULING OF WORK.
9. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
10. KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. PROPERLY AND LEGALLY DISPOSE OF MATERIALS.
11. JOB SITE SAFETY SHALL BE IN STRICT ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
12. VISIT THE SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS THAT MAY AFFECT THE BID.
13. EXISTING MECHANICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER MECHANICAL ITEMS RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED.
14. WHERE EXISTING MECHANICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONNECTED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH NEW WORK AS INDICATED IN THE CONTRACT DOCUMENTS AND AS SPECIFIED.
15. DO NOT DISCONTINUE ANY MECHANICAL SYSTEM SERVICE WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE USER AGENCY. THE MECHANICAL SYSTEM OUTAGES SHALL BE KEPT TO A MINIMUM.
16. PROVIDE SUBMITTALS (SHOP DRAWINGS) FOR REVIEW FOR NEW MATERIALS AND EQUIPMENT. PRIOR TO SUBMITTING, REVIEW SUBMITTALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, CONFLICTS WITH OTHER TRADES, AND CONSTRUCTABILITY. IDENTIFY ANY DEVIATIONS IN SUBMITTALS FROM CONTRACT DOCUMENTS. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT INCLUDE REVIEW OF DIMENSIONS, DETAILS, OR QUANTITIES. REVIEW DOES NOT WAIVE ANY REQUIREMENTS OF CONTRACT DOCUMENTS, INCLUDING REQUIREMENT TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
17. WHEN MOUNTING MECHANICAL WORK IN AREAS SUBJECT TO PEDESTRIAN TRAFFIC, MAINTAIN REQUIRED HEADROOM CLEARANCES.
18. MECHANICAL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS TO MAINTAIN THEIR RESPECTIVE UL RATING AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.
19. MECHANICAL WORK SHALL BE CONCEALED IN FINISHED AREAS SHOWN ON THE ARCHITECTURAL DRAWINGS UNLESS NOTED OTHERWISE.
20. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIFFUSER LOCATIONS AND THE ELECTRICAL DRAWINGS FOR EXACT ELECTRICAL EQUIPMENT LOCATIONS. LOCATIONS OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN THE FIELD.
21. WHERE NEW OR RELOCATED CONTROL DEVICES ARE SHOWN ON EXISTING WALLS, CUT WALL, INSTALL DEVICE AND CONDUIT, AND REPAIR WALL PROPERLY TO ITS ORIGINAL CONDITION.
22. SEALING FITTINGS AND APPROVED SEALING COMPOUND SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE. SEAL AROUND PENETRATIONS OF FIRE-RATED WALLS WITH AN APPROVED SEALANT.
23. LOCATIONS OF DUCTWORK, AIR DEVICES, TEMPERATURE CONTROLS, AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL LAYOUTS, EQUIPMENT CUTS AND PLUMBING/ELECTRICAL/STRUCTURAL PLANS. NO WORK SHALL BE INSTALLED UNTIL THE LOCATIONS HAVE BEEN VERIFIED. BRING ANY DISCREPANCY TO THE ARCHITECTS ATTENTION PRIOR TO MANUFACTURING OF DUCTWORK OR INSTALLATION.
24. NORTH ARROWS ON THESE DRAWINGS INDICATE PLAN NORTH ONLY.
25. INSTALL A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT THAT RUNS TO (1) AIR DEVICE.
26. PROVIDE PIPE SLEEVE FOR PIPING PENETRATIONS THROUGH RATED SLABS OR WALLS.
27. SEAMS IN DUCTWORK SHALL BE FLAT SLIP SEAMS UNLESS CONDITIONS CAN ACCOMMODATE STANDING SEAMS. DUCTS SHALL BE SEALED USING MASTIC THAT MEETS UL STANDARD 181A OR 181B.
28. DUCT JOINTS SHALL BE SEALED USING 3M MODEL 540 DUCT SEALER. EXCESS SEALER SHALL BE REMOVED FROM DUCTWORK AND JOINTS. PAINT SEALED JOINTS TO MATCH FINISH OF DUCTWORK.
29. IN AREAS WHERE WORK IS INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES OR WITHIN TRADES COVERED BY THIS DIVISION OF THE SPECIFICATIONS, PREPARE LARGER SCALE DRAWINGS CONSISTING OF PLANS AND SECTIONS TO SHOW HOW WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES.
30. EXISTING DUCTWORK SHALL BE EXTERNALLY AND INTERNALLY RESEALED. DUCTWORK SHALL BE PRESSURE TESTED PRIOR TO INSULATING OR TEST AND BALANCE WORK.
31. PROVIDE CHEMICAL FLUSH TO EXISTING PIPING PRIOR TO CONNECTING ANY EXISTING PIPING INFRASTRUCTURE TO NEW PIPING.
32. REFURBISH EXISTING BOILERS FOR REUSE. MANUFACTURER'S REPRESENTATIVE SHALL START-UP THE BOILERS.
33. EXISTING DRAWINGS SHALL BE INFORMATION AVAILABLE TO BIDDERS. REMOVE EXISTING VAV BOXES AND ASSOCIATED PRIMARY AIR AND LOW PRESSURE DUCTWORK AND AIR DEVICES. REMOVE EXISTING VRF INDOOR UNITS, CONDENSATE PIPING,

GENERAL DEMOLITION NOTES
(APPLY TO WORK PROVIDED UNDER DIV. 20):

1. DEMOLITION WORK IS GENERALLY INDICATED AS PART OF THESE NOTES AND THE NOTES INDICATED ON THE ARCHITECTURAL DEMOLITION PLANS.
2. VERIFY THAT EXISTING PIPING, EQUIPMENT, ETC. THAT IS CALLED FOR REMOVAL IS NO LONGER IN SERVICE BEFORE BEGINNING DEMOLITION.
3. THE DEMOLITION NOTES INDICATE THE MAIN COMPONENTS OF SYSTEMS AND EQUIPMENT THAT SHALL BE REMOVED UNDER THIS CONTRACT. IF SYSTEMS AND EQUIPMENT ARE FOUND DURING CONSTRUCTION THAT THE OWNER AUTHORIZES FOR REMOVAL BUT HAVE NOT BEEN SPECIFICALLY CALLED FOR DEMOLITION, REMOVE THE SYSTEMS AND EQUIPMENT.
4. WHEN THE WORK SPECIFIED HEREUNDER CONNECTS TO ANY EXISTING EQUIPMENT, PIPING, ETC., PERFORM NECESSARY ALTERATIONS, CUTTING, FITTING, ETC. OF THE EXISTING WORK AS MAY BE NECESSARY OR REQUIRED TO MAKE SATISFACTORY CONNECTIONS BETWEEN THE NEW AND EXISTING WORK AND LEAVE THE COMPLETE WORK IN A FINISHED AND WORKMANLIKE CONDITION.
5. WHEN THE WORK SPECIFIED UNDER OTHER DIVISIONS NECESSITATES RELOCATION OF EXISTING EQUIPMENT, PIPING, ETC. PERFORM WORK AND MAKE NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION.
6. REMOVE FROM THE PREMISES AND DISPOSE OF EXISTING PIPING, MATERIAL, FIXTURES, EQUIPMENT, ETC. NOT REQUIRED FOR RE- USE OR RE-INSTALLATION.
7. DELIVER ON THE PREMISES WHERE DIRECTED EXISTING MATERIAL AND EQUIPMENT WHICH IS REMOVED AND IS DESIRED BY THE OWNER OR IS INDICATED TO REMAIN THE PROPERTY OF THE OWNER.
8. OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
9. PIPING ABANDONED IN CONCRETE SLABS, WALLS, OR OTHER INACCESSIBLE LOCATIONS SHALL BE LEFT EMPTY.

MECHANICAL LEGEND

ABBREV	DESCRIPTION
H	HEATING WATER SUPPLY
HR	HEATING WATER RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	FLOW METER FITTING
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
TP	TRAP PRIMER
	RELIEF VALVE
MAV	MANUAL AIR VALVE
AAV	AUTOMATIC AIR VALVE
	STRAINERW/VALVE
	UNION
SA	SHOCK ABSORBER
	FLOW SWITCH
	THERMOMETER
	THERMOMETER WELL
	PRESSURE GAUGE W/ SYPHON & NEEDLE VALVE
	PRESSURE GAUGE W/NEEDLE VALVE
PG	PRESSURE GAUGE TAPPING
	PIPE GUIDE
	ANCHOR
TCV	TEMPERATURE CONTROL VALVE (2-WAY)
TCV	TEMPERATURE CONTROL VALVE (3-WAY)
	DRIP POINT
	FLEXIBLE PIPE CONNECTION
	OS&Y VALVE W/ TAMPER SWITCH
	SHUTOFF VALVE
	CHECK VALVE
BWV	BACK WATER VALVE
PRV	PRESSURE REDUCING VALVE
	PIPE TURNING UP
	PIPE TURNING DOWN
	TEE TURNING UP
	TEE TURNING DOWN
	THERMOSTAT
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	SUPPLY DUCT TURNED UP
	SUPPLY DUCT TURNED DOWN
	RETURN OR OUTSIDE AIR DUCT TURNEDUP
	RETURN OR OUTSIDE AIR DUCT TURNEDDOWN
	EXHAUST AIR DUCT TURNED UP
	EXHAUST AIR DUCT TURNED DOWN
	FLEXIBLE DUCT CONNECTION
DD	DUCT SMOKE DETECTOR
MVD	MANUAL VOLUMEDAMPER
MOD	MOTOR OPERATED DAMPER
SD	SMOKE DAMPER
FD	FIRE DAMPER
BDD	BACKDRAFT DAMPER
WBD	WEIGHTED BAROMETRIC RELIEF DAMPER
OBD	OPPOSED BLADE DAMPER
	INCLINED DUCT RISE
	INCLINED DUCT DOWN
	MATCH LINE
	SECTION DESIGNATION
	DETAIL DESIGNATION
	CONNECT TO EXISTING
	DEMO TO THIS POINT

ABBREV	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CB	CATCHBASIN
CFH	CUBIC FEET HOUR
CFM	CUBIC FEET MINUTE
DIFF	DIFFUSER
DB	DRY BULB
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EX	EXISTING
EXH	EXHAUST
EXTR	EXISTING TO REMAIN
(FLOOR PLAN-M-1)	FOR CONTINUATION SEE FLOOR PLAN ON DRAWING M-1
GR	GRILLE
GPM	GALLONS PER MINUTE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU/HR
OA	OUTSIDEAIR
PD	PRESSURE DROP
RA	RETURN AIR
REG	REGISTER
RX	REMOVE EXISTING
SA	SUPPLY AIR
TSP	TOTAL STATIC PRESSURE
V-PH	VOLT-PHASE
VTR	VENT THROUGH ROOF

COMPLETE SPECIFIC NOTES - HVAC

KEY VALUE	KEYNOTE TEXT
M1	MAKE CONNECTION TO EXISTING SUPPLY AIR AND RETURN AIR DUCTWORK.
M2	EXISTING BOILERS SHALL BE REFURBISHED FOR REUSE. START-UP SHALL BE BY THE MANUFACTURER'S REPRESENTATIVE. PROVIDE ADD ALTERNATE FOR REPLACEMENT IN KIND.
M3	MAKE CONNECTION TO EXISTING PIPING FOR AIR SEPARATOR.
M4	MAKE CONNECTION TO EXISTING PIPING FOR EXPANSION TANK.
M5	MAKE CONNECTION TO EXISTING PIPING FOR PUMPS.
M6	EXISTING DUCT TO BE CAPPED.

COMPLETE SPECIFIC NOTES - HVAC DEMO

KEY VALUE	KEYNOTE TEXT
MD1	REMOVE EXISTING 16" DUCT BACK TO DUCT MAIN.
MD2	REMOVE EXISTING 18x26 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD3	REMOVE EXISTING VAV BOX LOCATED IN THIS AREA.
MD4	REMOVE EXISTING 14" DUCT BACK TO POINT INDICATED.
MD5	REMOVE EXISTING 8" DUCT BACK TO POINT INDICATED.
MD6	REMOVE EXISTING 10" DUCT BACK TO POINT INDICATED.
MD7	REMOVE EXISTING SUPPLY AND RETURN DUCTWORK AND AIR DEVICES THROUGHOUT UNLESS NOTED OTHERWISE.
MD8	REMOVE EXISTING CONTROL WIRING AND THERMOSTAT THROUGHOUT UNLESS NOTED OTHERWISE.
MD9	REMOVE EXISTING 12x20 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD10	REMOVE EXISTING 12" DUCT BACK TO POINT INDICATED.
MD11	REMOVE EXISTING 12x22 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD12	REMOVE EXISTING 6x6 EXHAUST DUCT UP TO EXISTING TO REMAIN EXHAUST FAN.
MD13	REMOVE EXISTING EXHAUST DUCTWORK AND ASSOCIATED AIR DEVICE(S).
MD14	REMOVE EXISTING 12x12 EXHAUST DUCT UP TO EXHAUST FAN.
MD15	REMOVE EXISTING TRANSFER AIR DUCTWORK THROUGHOUT UNLESS NOTED OTHERWISE.
MD16	REMOVE EXISTING VRF EQUIPMENT, ASSOCIATED PIPING, DUCTWORK, AND AIR DEVICES. TURN OVER VRF CONDENSING UNITS TO THE OWNER.
MD17	REMOVE EXISTING VRF ROOTOP EQUIPMENT, PIPING, AND EQUIPMENT SUPPORTS. PATCH AND SEAL ROOF PENETRATIONS AIR TIGHT.
MD18	EXISTING BOILERS SHALL BE REFURBISHED FOR REUSE. START-UP SHALL BE BY THE MANUFACTURER'S REPRESENTATIVE. PROVIDE ADD ALTERNATE FOR REPLACEMENT IN KIND.
MD19	REMOVE EXISTING AIR SEPARATOR AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.
MD20	REMOVE EXISTING EXPANSION TANK AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.
MD21	REMOVE EXISTING PUMPS AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.
MD22	REMOVE EXISTING ROOFTOP EXHAUST FAN.

DRAWING LIST - MECHANICAL

SHEET NUMBER	SHEET NAME
M-001	SYMBOLS, NOTES AND ABBREVIATIONS
MD-101	LOWER FLOOR - DEMOLITION
MD-102	FIRST FLOOR - DEMOLITION
MD-103	ROOF - DEMOLITION
M-101	LOWER FLOOR- NEW WORK
M-102	FIRST FLOOR - NEW WORK
M-103	ROOF - NEW WORK
M-201	MECHANICAL PIPING - NEW WORK
M-501	MECHANICAL DETAILS
M-601	AUTOMATIC TEMPERATURE CONTROLS
M-701	MECHANICAL SCHEDULE
M-702	MECHANICAL SCHEDULE

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL — Name / Date — Title
DGS APPROVAL — Project Manager / Date — Chief of PMM&D / Date

REVISIONS — MARK — DATE — BY — DESCR

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION
MHEC PROJECT CC-09-473

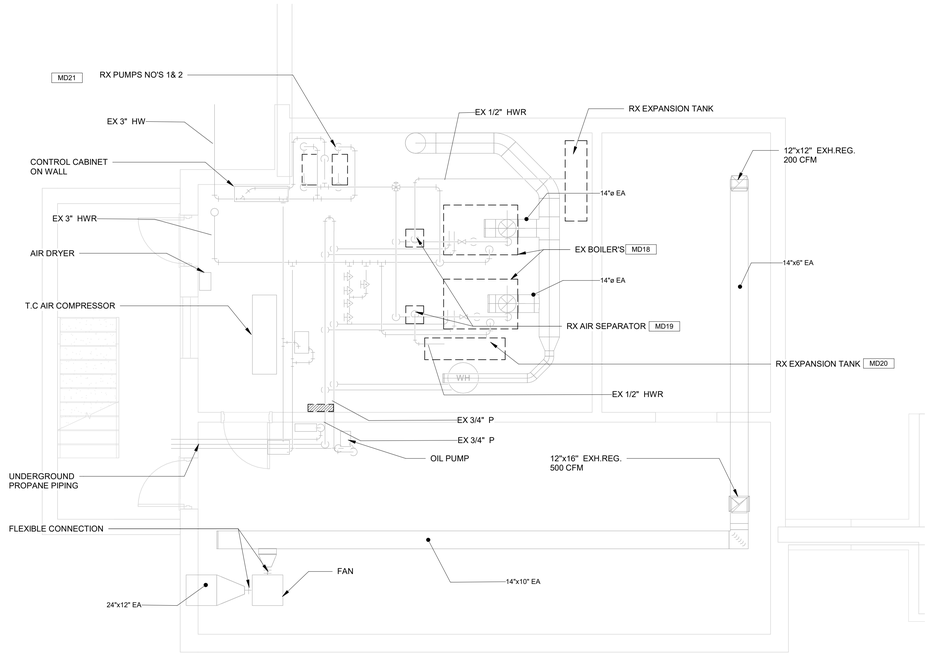
PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: SYMBOLS, NOTES AND ABBREVIATIONS

SHEET M-001

SPECIFIC NOTES - HVAC DEMO

KEY VALUE	KEYNOTE TEXT
MD18	EXISTING BOILERS SHALL BE REFURBISHED FOR REUSE. START-UP SHALL BE BY THE MANUFACTURER'S REPRESENTATIVE. PROVIDE ADD ALTERNATE FOR REPLACEMENT IN KIND.
MD19	REMOVE EXISTING AIR SEPARATOR AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.
MD20	REMOVE EXISTING EXPANSION TANK AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.
MD21	REMOVE EXISTING PUMPS AND PREPARE PIPING FOR RECONNECTION UNDER NEW WORK.



1 LOWER FLOOR - DEMOLITION
1/4" = 1'-0"

N

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW W. RIZZUTI
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

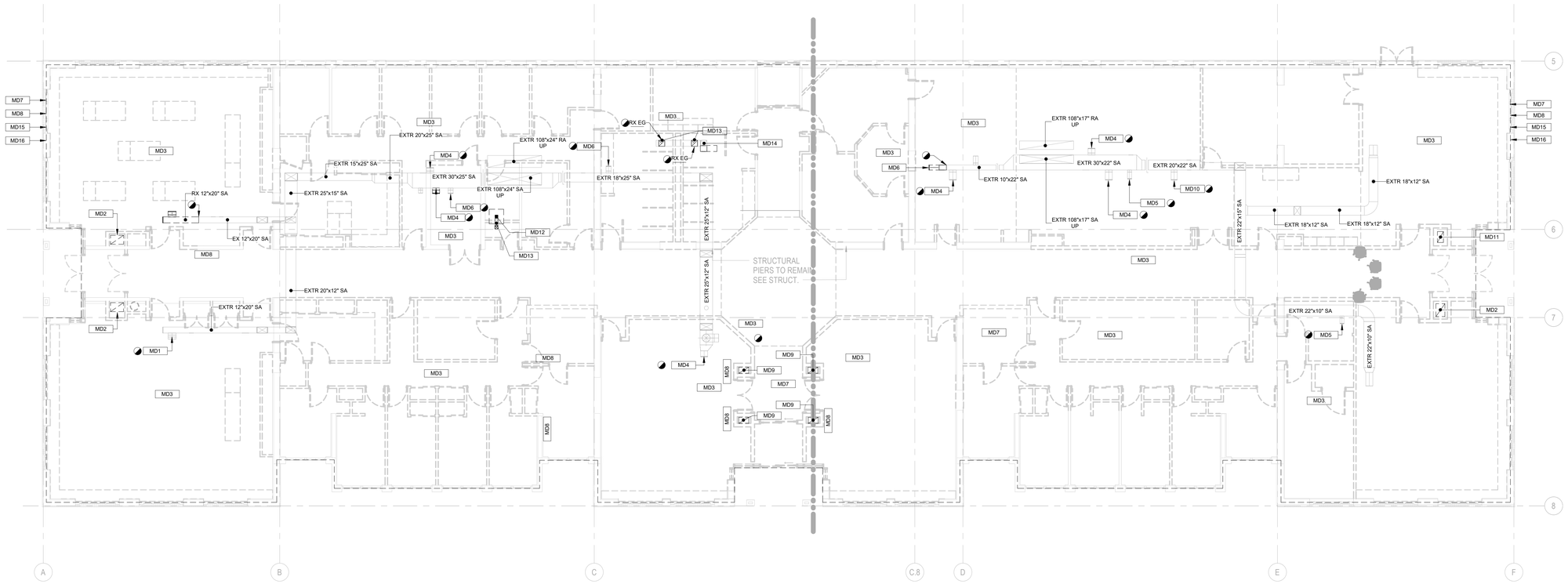
DRAWING
LOWER FLOOR - DEMOLITION

SHEET
MD-101

12/8/2022 5:55:32 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - HVAC DEMO

KEY VALUE	KEYNOTE TEXT
MD1	REMOVE EXISTING 16" DUCT BACK TO DUCT MAIN.
MD2	REMOVE EXISTING 18x26 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD3	REMOVE EXISTING VAV BOX LOCATED IN THIS AREA.
MD4	REMOVE EXISTING 14" DUCT BACK TO POINT INDICATED.
MD5	REMOVE EXISTING 8" DUCT BACK TO POINT INDICATED.
MD6	REMOVE EXISTING 10" DUCT BACK TO POINT INDICATED.
MD7	REMOVE EXISTING SUPPLY AND RETURN DUCTWORK AND AIR DEVICES THROUGHOUT UNLESS NOTED OTHERWISE.
MD8	REMOVE EXISTING CONTROL WIRING AND THERMOSTAT THROUGHOUT UNLESS NOTED OTHERWISE.
MD9	REMOVE EXISTING 12x20 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD10	REMOVE EXISTING 12" DUCT BACK TO POINT INDICATED.
MD11	REMOVE EXISTING 12x22 RETURN AIR DUCT AND ASSOCIATED AIR DEVICE.
MD12	REMOVE EXISTING 6x6 EXHAUST DUCT UP TO EXISTING TO REMAIN EXHAUST FAN.
MD13	REMOVE EXISTING EXHAUST DUCTWORK AND ASSOCIATED AIR DEVICE(S).
MD14	REMOVE EXISTING 12x12 EXHAUST DUCT UP TO EXHAUST FAN.
MD15	REMOVE EXISTING TRANSFER AIR DUCTWORK THROUGHOUT UNLESS NOTED OTHERWISE.
MD16	REMOVE EXISTING VRF EQUIPMENT, ASSOCIATED PIPING, DUCTWORK, AND AIR DEVICES. TURN OVER VRF CONDENSING UNITS TO THE OWNER.



1 FIRST FLOOR - DEMOLITION
1/8" = 1'-0"

N

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32" = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW M. HUNT
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

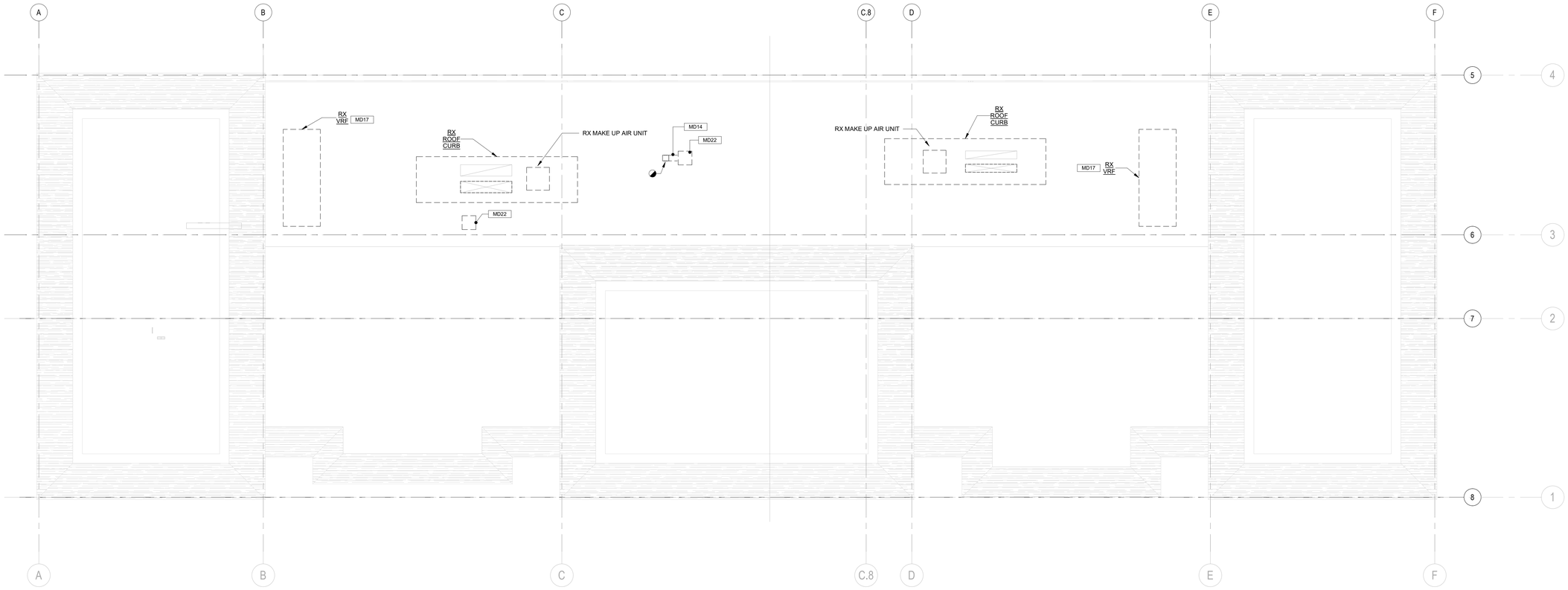
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - DEMOLITION

SHEET
MD-102

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:55:46 PM

SPECIFIC NOTES - HVAC DEMO	
KEY VALUE	KEYNOTE TEXT
MD14	REMOVE EXISTING 12x12 EXHAUST DUCT UP TO EXHAUST FAN.
MD17	REMOVE EXISTING VRF ROOTOP EQUIPMENT, PIPING, AND EQUIPMENT SUPPORTS. PATCH AND SEAL ROOF PENETRATIONS AIR TIGHT.
MD22	REMOVE EXISTING ROOFTOP EXHAUST FAN.



1 ROOF - HVAC DEMOLITION
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32 = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW W. MUNN
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

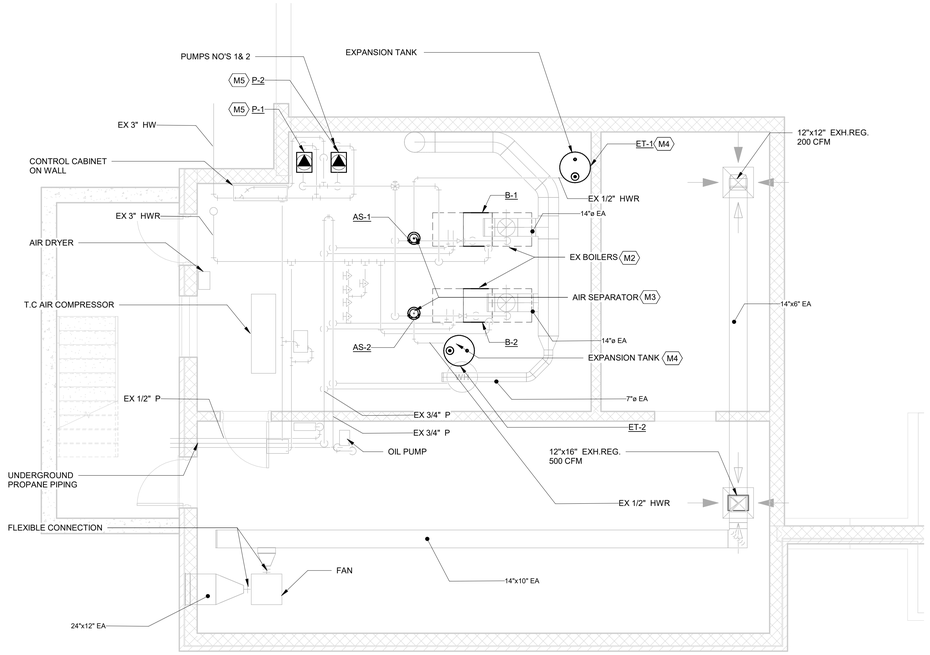
DRAWING
ROOF - DEMOLITION

SHEET
MD-103

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:55:47 PM

SPECIFIC NOTES - HVAC NEW

KEY VALUE	KEYNOTE TEXT
M2	EXISTING BOILERS SHALL BE REFURBISHED FOR REUSE. START-UP SHALL BE BY THE MANUFACTURER'S REPRESENTATIVE. PROVIDE ADD ALTERNATE FOR REPLACEMENT IN KIND.
M3	MAKE CONNECTION TO EXISTING PIPING FOR AIR SEPARATOR.
M4	MAKE CONNECTION TO EXISTING PIPING FOR EXPANSION TANK.
M5	MAKE CONNECTION TO EXISTING PIPING FOR PUMPS.



1 LOWER FLOOR- NEW WORK
1/4" = 1'-0"

N

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32 = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW W. MCCAIN
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

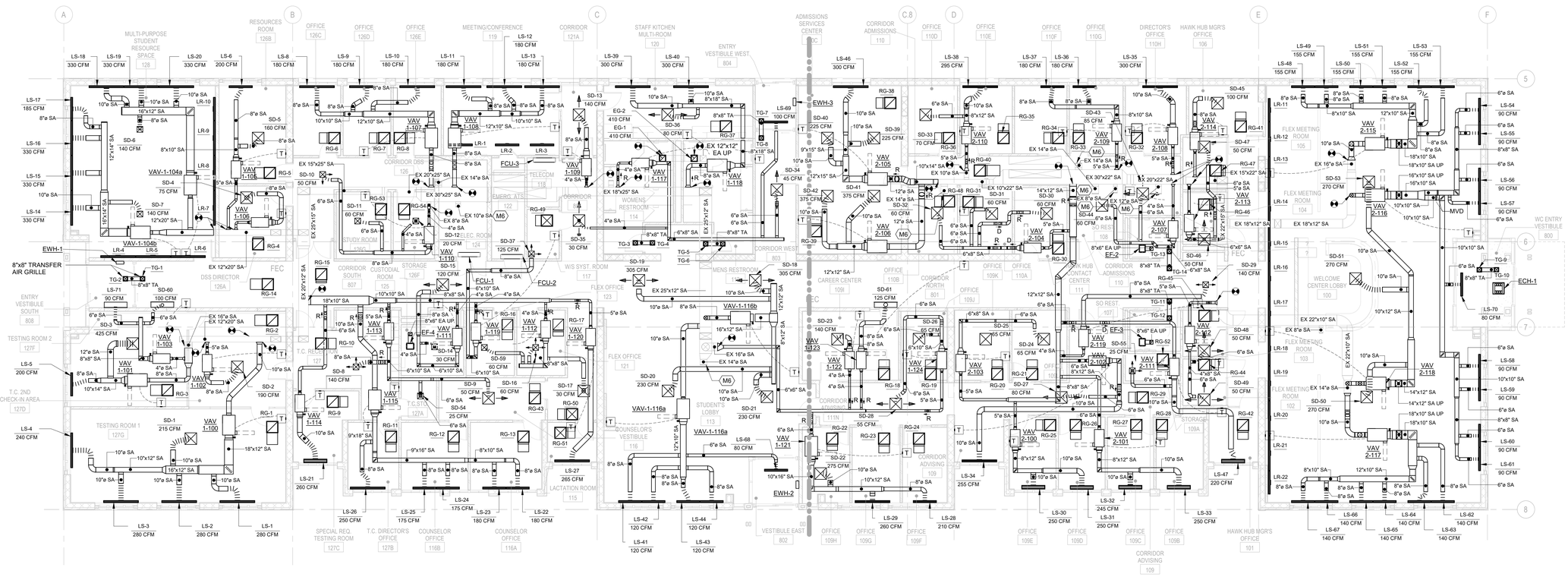
DRAWING
LOWER FLOOR- NEW WORK

SHEET
M-101

12/8/2022 5:55:13 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - HVAC NEW

KEY VALUE	KEYNOTE TEXT
M6	EXISTING DUCT TO BE CAPPED.



1 FIRST FLOOR - NEW WORK
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL

Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR
REVISIONS			

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW W. RUNN 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

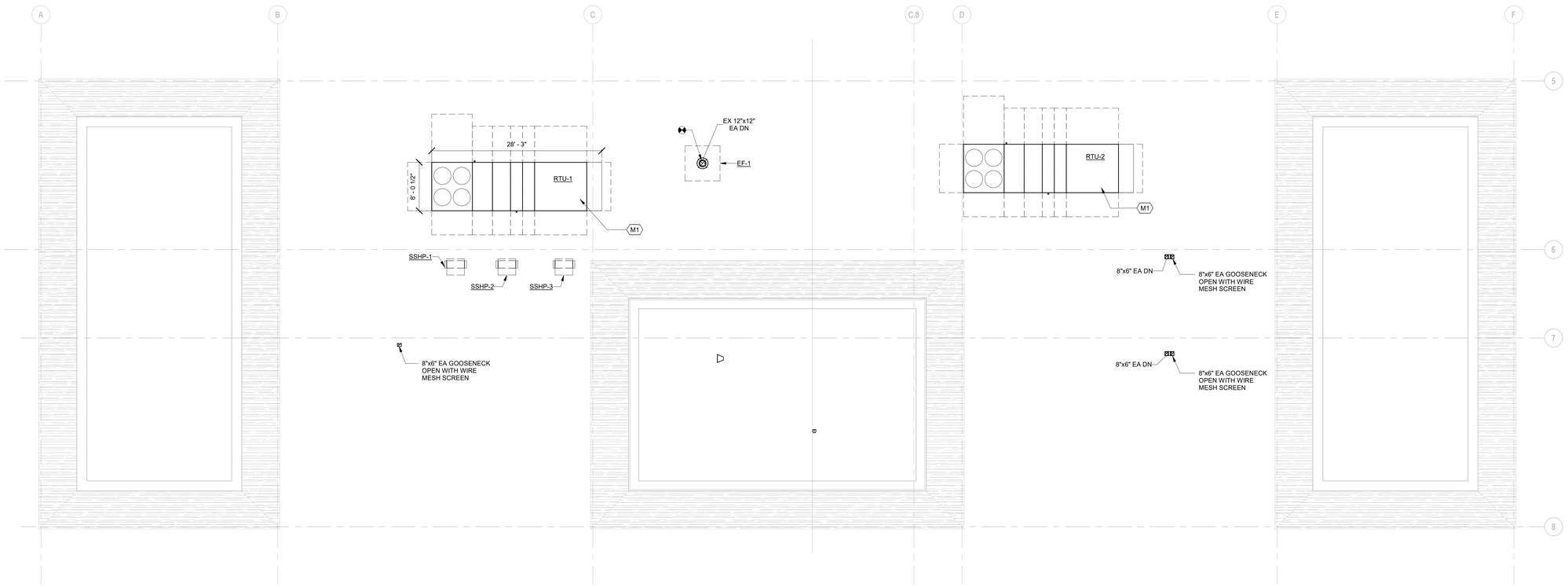
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR - NEW WORK

SHEET
M-102

12/8/2022 5:55:20 PM BIM 360://21249.00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - HVAC NEW	
KEY VALUE	KEYNOTE TEXT
M1	MAKE CONNECTION TO EXISTING SUPPLY AIR AND RETURN AIR DUCTWORK.



1 ROOF - NEW WORK
1/8" = 1'-0"

N

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

0 8 16 24 32

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW W. RIZZI 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

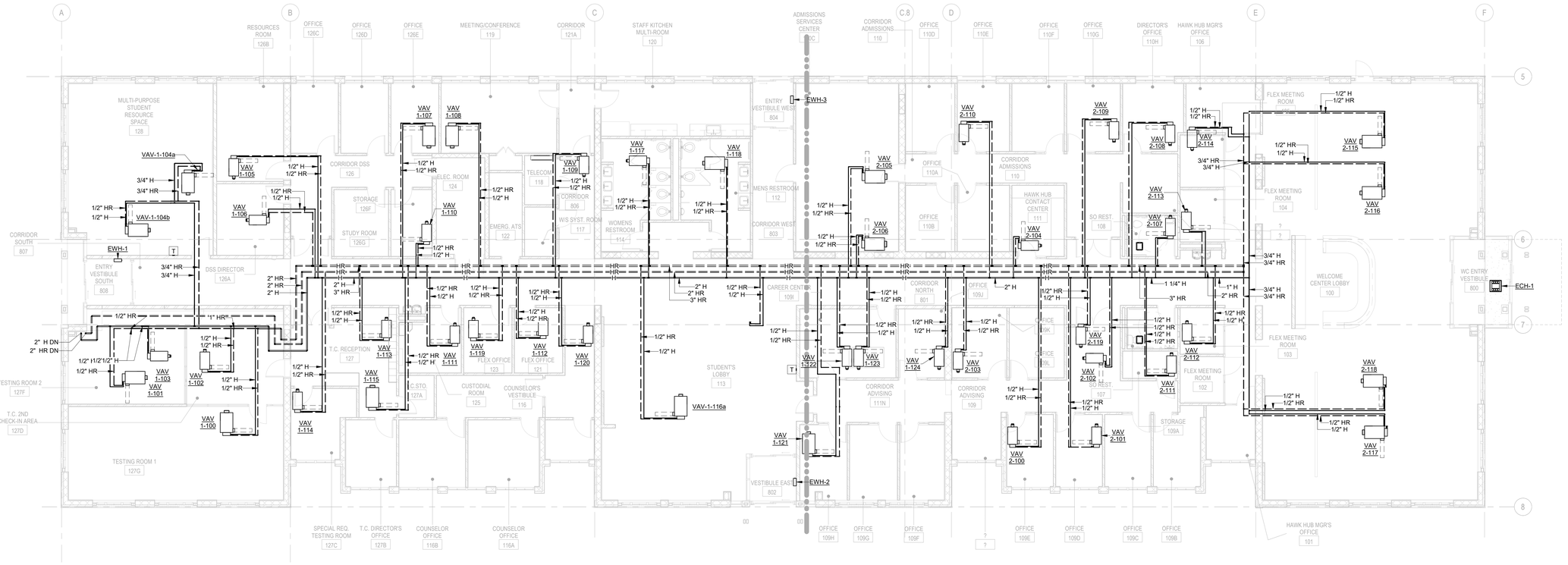
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ROOF - NEW WORK

SHEET
M-103

12/8/2022 5:55:21 PM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES - HVAC NEW	
KEY VALUE	KEYNOTE TEXT



1 MECHANICAL PIPING - NEW WORK
1/8" = 1'-0"

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

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&AD: Date

MARK	DATE	BY	DESCR
REVISIONS			

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
ANDREW W. RUNN
43951
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

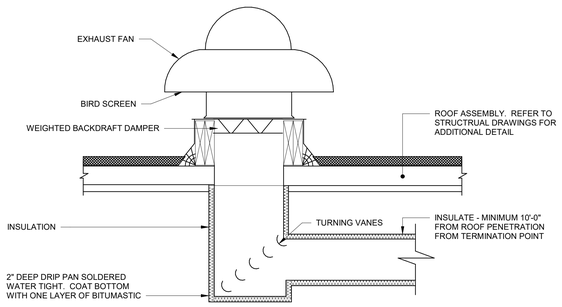
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

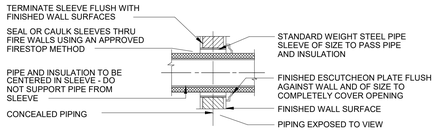
DRAWING
MECHANICAL PIPING - NEW WORK

SHEET
M-201

12/8/2022 5:55:25 PM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

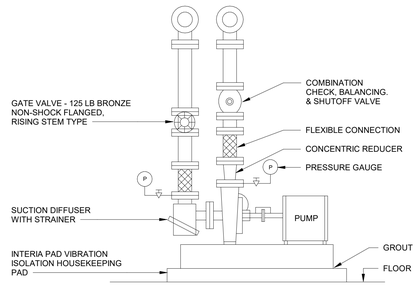


1 EXHAUST FAN DUCT ON ROOF
12" = 1'-0"

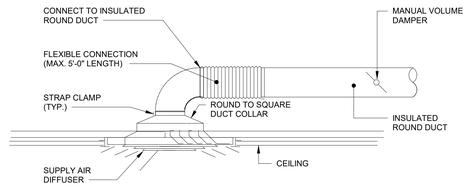


NOTES:
1. REFER TO ARCHITECTURAL DRAWING FOR TYPES OF WALLS & THEIR CONSTRUCTION.
2. PROVIDE SLEEVES @ ALL RATED WALL PENETRATIONS.

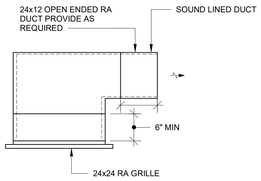
2 TYPICAL SLEEVE THROUGH INTERIOR WALL
NO SCALE



3 BASE MOUNTED RECIRCULATING PUMP DETAIL
12" = 1'-0"

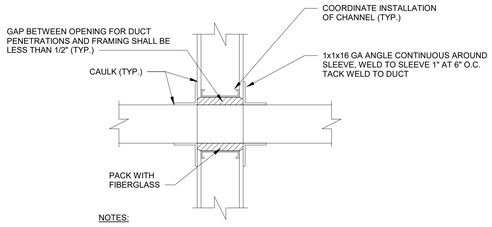


4 TYPICAL DIFFUSER CONNECTION
NO SCALE



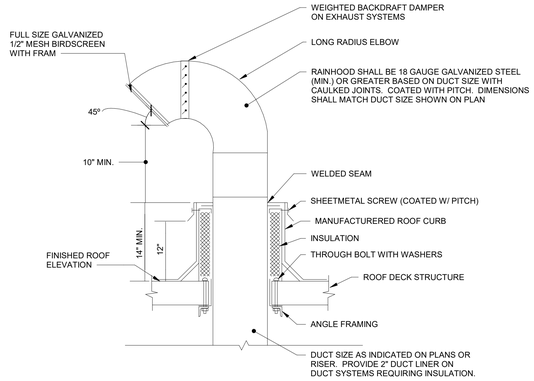
NOTE:
1. SOUND LINING SHALL BE 1" THICK, DUCT SIZES SHOWN ARE NET FREE AREA FROM INSIDE FACES OF SOUND LINING. ELBOW TO OPEN AWAY FROM NOISE PRODUCING EQUIPMENT.

5 RETURN GRILLE WITH PLENUM ELBOW
12" = 1'-0"

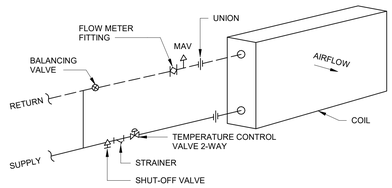


NOTES:
PACK AND CAULK VOIDS TO MEET WALLS, SOUND (STC) AND FIRE RATINGS.

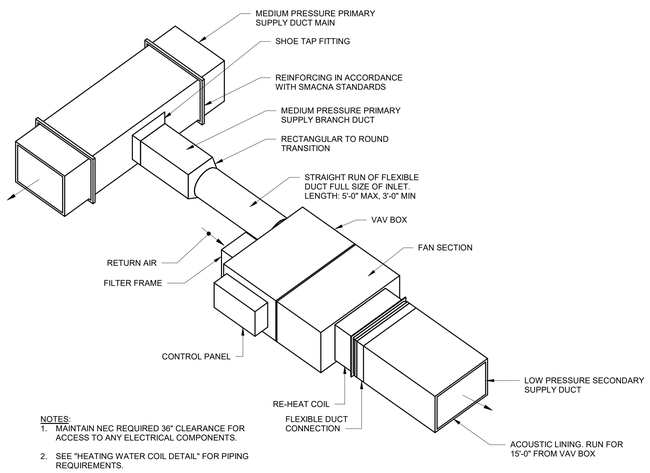
6 TRANSFER DUCT DETAIL - WALL PENETRATION
NO SCALE



7 GOOSENECK ON FLAT ROOF DETAIL
NO SCALE

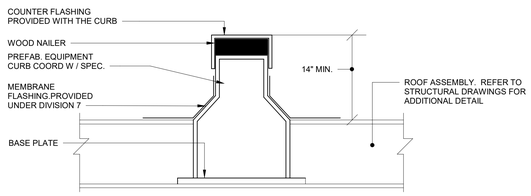


8 AHU HEATING COIL VARIABLE FLOW
12" = 1'-0"



NOTES:
1. MAINTAIN NEC REQUIRED 36" CLEARANCE FOR ACCESS TO ANY ELECTRICAL COMPONENTS.
2. SEE "HEATING WATER COIL DETAIL" FOR PIPING REQUIREMENTS.

9 SERIES FAN POWERED VAV BOX WITH REHEAT COIL
12" = 1'-0"



NOTES:
1. COORDINATE TYPE OF ROOF WITH ARCHITECT.

10 EQUIPMENT RAIL DETAIL
12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date
Title: DGS APPROVAL
Project Manager | Date
Chief of FM&AD | Date

MARK	DATE	BY	DESCR
REVISIONS			

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND · ANDREW H. WIN · 43951 · PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
MECHANICAL DETAILS

SHEET
M-501

12/8/2022 5:55:26 PM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt

GENERAL SECTION - ENERGY MANAGEMENT SYSTEM NOTES –

1. OCCUPIED/UNOCCUPIED CONTROL SHALL BE DETERMINED BY THE ENERGY MANAGEMENT SYSTEM, EMS. EACH PIECE OF EQUIPMENT SHALL HAVE AN INDEPENDENT OCCUPIED/UNOCCUPIED MODE SCHEDULE.

2. EMS SHALL HAVE A MORNING WARM UP/COOL DOWN CYCLE FOR EACH SYSTEM TO BRING THE SPACES TO TEMPERATURE. VENTILATION AIR SHALL NOT BE DELIVERED TO THE SYSTEM DURING THE WARM-UP/COOL-DOWN PERIOD AND ENTER INTO THE OCCUPIED PERIOD BASED ON TIME CLOCK CONTROL, NOT BASED ON TEMPERATURE SET POINTS BEING SATISFIED.

3. COMMON AREA SPACE TEMPERATURES SHALL BE MONITORED BY SPACE/RETURN AIR TEMPERATURE SENSORS. SET POINTS FOR INDIVIDUAL SPACE/RETURN AIR TEMPERATURE SENSORS SHALL ONLY BE ADJUSTED BY THE EMS, NOT AT THE SENSOR.

4. EMS SHALL PROVIDE TREND LOGS, DEMAND HISTORY AND EQUIPMENT RUN TIME FOR THE SYSTEMS SERVED THROUGH A WEB BASED INTERFACE.

5. EMS SHALL PROVIDE A GRAPHICAL INTERFACE THAT INCLUDES SCHEMATICS OF THE EQUIPMENT AND FLOOR PLANS OF THE BUILDING. THE SCHEMATICS AND PLANS SHALL INDICATE SYSTEM SETPOINTS AND MONITORING POINTS, WITH THE ABILITY TO ADJUST THE SETPOINTS DIRECTLY THROUGH THE WEB BASED INTERFACE.

6. THE EMS SHALL HAVE THE ABILITY TO SEND TEXT MESSAGES AND EMAIL NOTIFICATIONS REGARDING ALARM CONDITIONS TO THE OWNER'S OFF-SITE DEVICES THROUGH THE WEB BASED INTERFACE.

7. WIRING ABOVE CEILINGS CONCEALED IN OPEN AREAS SHALL BE PLENUM RATED. WIRING IN MECHANICAL SPACES SHALL BE RUN IN EMT. WIRING RUN OUTSIDE OF THE BUILDING ENVELOPE SHALL BE RUN IN RIGID CONDUIT.

8. THE INDICATED CONTROL SEQUENCES ARE NOT BASED ON SIMPLY IMPLEMENTING FACTORY FURNISHED UNITARY CONTROLS. PRIOR TO SUBMITTING A BID, COORDINATE BETWEEN THE CAPABILITIES OF THE FACTORY FURNISHED UNITARY CONTROLS AND REQUIRED ADDITIONAL CONTROL COMPONENTS AND SEQUENCES VIA THE EMS TO PROVIDE THE CAPABILITIES TO ACCOMPLISH THE CONTROL SEQUENCES INDICATED. ADDITIONAL EMS PROGRAMMING AND CONTROL DEVICES SUCH AS DIFFERENTIAL PRESSURE SENSORS, TEMPERATURE SENSORS, ETC., AS REQUIRED TO IMPLEMENT THE INDICATED SEQUENCES SHALL BE PROVIDED. DELINEATION BETWEEN THE FACTORY UNITARY CONTROL AND THE EMS SHALL BE INDICATED AS PART OF THE EMS SUBMITTAL.

9. THE EMS SHALL MONITOR THE MAIN ELECTRIC SERVICES FOR VOLTAGE, AMP DRAW, KW, KWH, AND LOSS OF PHASE AT 30 SECOND INTERVALS. FURNISH CURRENT TRANSFORMER AND VOLTAGE METER AS PART OF THIS DIVISION WHICH WILL BE INSTALLED UNDER DIVISION 26. 3-PHASE EQUIPMENT THAT IS PROVIDED UNDER THIS CONTRACT SHALL BE SHUT DOWN ON A LOSS OF PHASE BY THE EMS.

10. DURING CONSTRUCTION, ALLOW FOR 12 HOURS OF TIME TO MEET WITH THE BUILDING OWNER'S REPRESENTATIVES TO COORDINATE OPERATING SCHEDULES AND SYSTEM SET POINTS. IN ADDITION, PROVIDE ON SITE TRAINING TO THE OWNER'S REPRESENTATIVES FOR THE EMS SYSTEM. THE TRAINING SHALL INCLUDE PROVISIONS FOR THE OWNER'S REPRESENTATIVES TO MAKE CHANGES TO THE GRAPHICAL INTERFACES. THIS TIME SHALL BE ADDITIONAL TO THE TIME REQUIRED FOR COMMISSIONING.

11. THE EMS CONTROL DEVICES SHALL BE CHECKED AND RECALIBRATED AS NECESSARY AT (2) THREE MONTH INTERVALS FROM THE DATE OF BUILDING TURN OVER.

12. PROVIDE A MUSHROOM TYPE, PUSH OFF, PULL ON SWITCH LOCATED AT THE MAIN LOBBY DOOR. LOCATION SHALL BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION. SWITCH SHALL STOP EACH AIR HANDLING UNIT AND EXHAUST FAN AND CLOSE THE ASSOCIATED UNIT OUTSIDE AIR DAMPER.

13. EMS ALARM CONDITIONS (EDIT PER PROJECT) –
    - LOSS OF AIR FLOW THROUGH AN RTU
    - LOSS OF WATER FLOW THROUGH ANY PUMP
    - ACTIVATION OF ANY DUCT DETECTOR
    - ACTIVATION OF ANY WATER LEVEL DETECTOR
    - LOW/HIGH LAT FROM AN RTU
    - FAILURE OF ANY PUMP TO ENERGIZE
    - DIFFERENTIAL PRESSURE ACROSS RTU FILTERS
    - LOSS OF ELECTRIC SERVICE (ACTIVATION OF GENERATOR), ELECTRIC SERVICE LOW VOLTAGE, OR LOSS OF PHASE (IF MONITORING IS PROVIDED)

AIR COOLED VARIABLE AIR VOLUME ROOFTOP UNIT CONTROL

1. OCCUPIED/UNOCCUPIED SHALL BE AS DESCRIBED IN THE GENERAL SECTION.

2. WHEN IN UNOCCUPIED MODE, THE SUPPLY AND RELIEF/POWER EXHAUST FANS SHALL BE DE-ENERGIZED AND THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED.THE RETURN AIR DAMPER SHALL BE OPEN.

3. WHEN IN UNOCCUPIED MODE, ON A RISE IN SPACE TEMPERATURE, AS SENSED BY A SPACE TEMPERATURE SENSOR, ABOVE THE UNOCCUPIED MODE SET POINT (ADJUSTABLE), THE *EMS* SHALL ENERGIZE THE UNITS SUPPLY FAN AND DX COOLING CYCLE. THE UNITS DIGITAL SCROLL COMPRESSORS SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (ADJUSTABLE). THE OUTSIDE AIR AND RELIEF AIR) DAMPERS SHALL REMAIN CLOSED.THE RETURN AIR DAMPER SHALL REMAIN OPEN.

4. WHEN IN MORNING WARM UP MODE, THE SUPPLY FAN SHALL BE DE-ENERGIZED WITH THE OUTSIDE AIR (AND RELIEF AIR) DAMPERS CLOSED. THE RETURN AIR DAMPER SHALL BE OPEN. CHANGE OVER TO OCCUPIED MODE SHALL BE CONTROLLED VIA THE TIMECLOCK SCHEDULE.

5. WHEN IN OCCUPIED MODE, THE SUPPLY AND RELIEF/POWER EXHAUST FANS SHALL RUN CONTINUOUSLY WITH THE OUTSIDE AIR DAMPER TO ITS PROPER MINIMUM POSITION AND THE RETURN AIR AND RELIEF AIR DAMPERS CORRESPONDINGLY POSITIONED AS DETERMINED BY THE TEST AND BALANCE PROCEDURE.THE OUTSIDE AIR, RETURN AIR, AND RELIEF AIR DAMPERS SHALL BE MODULATED TO MAINTAIN THE UNITS MINIMUM OUTSIDE AIR QUANTITY REGARDLESS OF THE UNITS CURRENT SUPPLY AIR QUANTITY. THE DAMPERS SHALL MODULATE LINEARLY BETWEEN THE MAXIMUM TOTAL SUPPLY AIR AND MINIMUM TOTAL SUPPLY AIR BASED ON INPUT FROM THE SUPPLY FAN VARIABLE FREQUENCY DRIVE.

6. THE EMS SHALL MONITOR SUPPLY AIR DUCT PRESSURE, SENSED BY A DUCT MOUNTED PRESSURE SENSOR AS LOCATED ON THE DRAWINGS. THE VARIABLE FREQUENCY DRIVE SHALL MODULATE THE SUPPLY FAN TO MAINTAIN A CONSTANT SUPPLY AIR DUCT PRESSURE.

7. THE *EMS* SHALL MONITOR SPACE PRESSURE, SENSED BY A SPACE MOUNTED PRESSURE SENSOR AS LOCATED ON THE DRAWINGS. THE VARIABLE FREQUENCY DRIVE SHALL MODULATE THE RELIEF FAN TO MAINTAIN A POSITIVE SPACE PRESSURE.

8. WHEN IN OCCUPIED MODE, ON A RISE IN DISCHARGE AIR TEMPERATURE AS SENSED BY A DUCT MOUNTED TEMPERATURE SENSOR LOCATED IN THE MAIN SUPPLY DUCT, THE *EMS/SENSOR* SHALL ENERGIZE THE UNITS DX COOLING CYCLE. THE UNITS DIGITAL SCROLL COMPRESSORS SHALL BE MODULATED TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (ADJUSTABLE)

9. WHEN IN OCCUPIED MODE, ON A DROP IN DISCHARGE AIR TEMPERATURE AS SENSED BY A DUCT MOUNTED TEMPERATURE SENSOR LOCATED IN THE MAIN SUPPLY DUCT, THE *EMS/SENSOR* SHALL ENERGIZE THE UNITS GAS FIRED HEATING CYCLE. THE UNITS GAS FIRED STAINLESS STEEL HEATING SECTION SHALL BE MODULATED TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (ADJUSTABLE).

10. ON A RISE IN SUPPLY AIR RELATIVE HUMIDITY, AS SENSED BY A DUCT MOUNTED HUMIDITY SENSOR LOCATED IN THE UNITS MAIN SUPPLY DUCT, THE *EMS/SENSOR* SHALL ENERGIZE THE UNITS DX COOLING CYCLE TO MAINTAIN RELATIVE HUMIDITY SET POINT (ADJUSTABLE). IF THE SUPPLY AIR TEMPERATURE DROPS BELOW THE COOLING SET POINT, AS SENSED BY A DUCT MOUNTED TEMPERATURE SENSOR, WHILE THE RELATIVE HUMIDITY REMAINS UNSATISFIED, THE *EMS/SENSOR* SHALL ENERGIZE AND MODULATE THE UNITS HOT GAS REHEAT CYCLE TO MAINTAIN THE COOLING SET POINT (ADJUSTABLE).

11. THE ENERGY RECOVERY WHEEL SHALL MODULATE VIA A VFD BASED ON ITS BUILT IN CONTROLS TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (ADJUSTABLE).

12. WHEN OUTSIDE AIR CONDITIONS ALLOW, AS DETERMINED BY THE UNITS ENTHALPY SENSOR, THE *EMS* SHALL DE-ENERGIZE THE ENERGY RECOVERY WHEEL MODULATE OPEN THE OUTSIDE AIR AND RELIEF AIR DAMPERS TO ALLOW ECONOMIZER FREE COOLING.

13. THE EMS SHALL MONITOR THE PRESSURE DROP ACROSS THE FILTERS IN THE UNIT. UPON REACHING A PRESSURE DIFFERENTIAL SET POINT (ADJUSTABLE), THE *EMS* SHALL GENERATE AN ALARM CONDITION INDICATING THE FILTERS NEED TO BE REPLACED.

14. UPON SENSING IMPROPER CONDITIONS, DUCT SMOKE DETECTORS, FURNISHED BY DIVISION 20 AND INSTALLED BY DIVISION 26 SHALL DE-ENERGIZE THE SUPPLY AND RELIEF/POWER EXHAUST FANS, AND CLOSE THE OUTSIDE AIR AND RELIEF AIR DAMPERS.

SERIES FAN POWERED VAV BOX CONTROL –

1. OCCUPIED/UNOCCUPIED SHALL BE AS DESCRIBED IN THE GENERAL SECTION.

2. WHEN IN UNOCCUPIED MODE, THE UNIT SUPPLY FAN SHALL BE DE-ENERGIZED AND THE VARIABLE AIR VOLUME DAMPER SHALL BE CLOSED.

3. WHEN IN UNOCCUPIED MODE, ON A RISE IN SPACE TEMPERATURE, AS SENSED BY A SPACE TEMPERATURE SENSOR, ABOVE THE UNOCCUPIED MODE SET POINT (ADJUSTABLE), THE EMS SHALL ENERGIZE THE SUPPLY FAN AND OPEN THE VARIABLE AIR VOLUME DAMPER.

4. WHEN IN MORNING WARM UP/COOL DOWN MODE, THE SUPPLY FAN SHALL BE ENERGIZED, WITH THE VARIABLE AIR VOLUME DAMPER OPEN. CHANGE OVER TO OCCUPIED MODE SHALL BE CONTROLLED VIA THE TIMECLOCK SCHEDULE.

5. WHEN IN OCCUPIED MODE, THE SUPPLY FAN SHALL RUN CONTINUOUSLY.

6. WHEN IN OCCUPIED MODE, ON A RISE IN SPACE TEMPERATURE, AS SENSED BY A SPACE TEMPERATURE SENSOR, ABOVE THE OCCUPIED MODE SET POINT (ADJUSTABLE), THE EMS SHALL ENABLE THE UNIT'S CONTROLS WHICH SHALL CALCULATE A NEW VOLUME (CFM) SET POINT. THE UNIT'S CONTROLS SHALL OPEN THE VARIABLE AIR VOLUME DAMPER UNTIL THE NEW CALCULATED VELOCITY, AS SENSED BY A VELOCITY SENSOR IS REACHED.

7. WHEN IN OCCUPIED MODE, ON A DROP IN SPACE TEMPERATURE, AS SENSED BY A SPACE TEMPERATURE SENSOR, BELOW THE OCCUPIED MODE SET POINT (ADJUSTABLE) THE EMS SHALL MODULATE THE VARIABLE AIR VOLUME DAMPER TO ITS MINIMUM POSITION AND THE TWO-WAY VALVE SHALL MODULATE TO PROVIDE HEATING WATER THROUGH THE REHEAT COIL

DOMESTIC WATER SUB-METER CONTROL

1. WATER CONSUMPTION SHALL BE RECORDED FOR 36 MONTHS.
2. REPORTING FORMAT SHALL BE IN HOURLY, DAILY, AND ANNUAL USAGE FORMAT TO MEET 2018 IGCC REQUIREMENTS.

DOMESTIC WATER CIRCULATING PUMP CONTROL

1. OCCUPIED/UNOCCUPIED MODE SHALL BE AS DESCRIBED IN THE GENERAL SECTION.
2. WHEN IN OCCUPIED MODE, THE DOMESTIC WATER CIRCULATION PUMP SHALL RUN CONTINUOUSLY.

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND ANDREW M. HUNT 43951 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING AUTOMATIC TEMPERATURE CONTROLS

SHEET M-601

12/8/2022 5:55:26 PM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt

ROOFTOP UNIT WITH ENERGY RECOVERY SCHEDULE (GAS HEAT)

DESIGNATION	SERVING	NOMINAL TONNAGE	EER	SUPPLY FAN SA (CFM)	SUPPLY FAN SA (MIN)	SUPPLY FAN ESP (IN. W.C.)	SUPPLY FAN OA (CFM)	EXHAUST FAN EXH (CFM)	EXHAUST FAN ESP (IN. W.C.)	EXHAUST FAN RECOVERY AIR (CFM)
RTU-1	SOUTH	35	10.0	10670	4290	2.00	4800	10670	2.00	4320
RTU-2	NORTH	30	10.6	8385	3385	2.00	3600	8385	2.00	3240

DESIGNATION	ENERGY RECOVERY WHEEL VENTILATION SUMMER EAT DB	SUMMER EAT WB	SUMMER LAT DB	SUMMER LAT WB	WINTER EAT DB	WINTER EAT WB	WINTER LAT DB	WINTER LAT WB	EXHAUST SUMMER EAT DB	EXHAUST SUMMER EAT WB	EXHAUST WINTER EAT DB	EXHAUST WINTER EAT WB
RTU-1	95.0 °F	78.0 °F	81.9 °F	69.2 °F	0.0 °F	0.0 °F	46.9 °F	36.9 °F	75.0 °F	62.0 °F	78.0 °F	50.0 °F
RTU-2	95.0 °F	78.0 °F	81.5 °F	68.1 °F	0.0 °F	0.0 °F	48.3 °F	38.0 °F	75.0 °F	62.0 °F	78.0 °F	50.0 °F

DESIGNATION	MECHANICAL COOLING EAT DB	EAT WB	COOLING COIL CAPACITY SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	TOTAL EQUIVALENT CAPACITY (MBH)	MECHANICAL HEATING EAT DB	HEATING CAPACITY CAP REQ'D (MBH)	HEATING CAPACITY ELECTRIC INPUT (KW)	HOT GAS REHEAT EAT DB	HOT GAS REHEAT LAT DB	REHEAT CAPACITY (MBH)	ELECTRICAL MCA	MOCP	VOLTAGE	PHASE	MANUFACTURER	SERIES
RTU-1	78.2 °F	65.4 °F	298.93	417.49	587.8	52.2 °F	102.0	30.0	51.9 °F	70.0 °F	204.0	222.5	250	208	3	DAIKIN	DPSA
RTU-2	77.4 °F	64.4 °F	265.90	351.00	491.3	49.4 °F	102.0	30.0	51.8 °F	70.0 °F	187.0	215.1	250	208	3	DAIKIN	DPSA

NOTES:
1. THE COOLING AND HEATING LOADS INDICATED ARE THE LOADS REQUIRED TO BE MET BY THE HEAT PUMP.
2. THE TOTAL EQUIVALENT COOLING AND HEATING CAPACITES OF THE UNIT SHALL BE THE ADDITION OF THE DX COOLING CAPACITY AND THE GAS FIRED HEATING SECTION PLUS THE CAPACITY GENERATED BY THE ENERGY RECOVERY WHEEL.
3. PROVIDE A VARIABLE FREQUENCY DRIVE (VFD) TO CONTROL THE ENERGY RECOVERY WHEEL.
4. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT DEHUMIDIFICATION.
5. PROVIDE WITH ELEVATED ROOF CURB TO ALLOW SUPPLY AND EXHAUST DUCT TO ROUTE THROUGH THE CURB TO UNIT CONNECTIONS.
6. PROVIDE UNIT WITH DIGITAL MODULATION SCROLL OR VARIABLE SCROLL COMPRESSORS.
7. PROVIDE DUCT SMOKE DETECTORS ON THE SUPPLY AND RETURN AIR DUCTS. FURNISHED UNDER DIVISION 26 AND INSTALLED UNDER DIVISION 20.
8. UNIT SHALL BE HEAT PUMP.
9. PROVIDE AIRFLOW MONITORING STATIONS TO SUPPLY AIR, EXHAUST AIR, AND OUTSIDE AIR.
10. PROVIDE MERV8 FILTER.

SERIES FAN POWERED BOX SCHEDULE

DESIGNATION	SERVING	INLET SIZE	FAN HP	ESP	CFM MAXIMUM	CFM MINIMUM	HEATING CFM	EAT HEATING (°F)	GPM HEATING (GPM)	COIL WPD (IN. HG)	HEATING CAPACITY REQUIRED (MBH)	ELECTRICAL MCA	MOCP	VOLTAGE	PHASE	MANUFACTURER	SERIES ID
VAV 1-100	TESTING ROOM 127G	10"		.5	1295	520	1295	120	0		44.0	10.6	15	208	1	TITUS	DTFS
VAV 1-101	TESTING ROOM 2 127F	8"		.5	625	250	625	120	0		21.0	5.0	15	208	1	TITUS	DTFS
VAV 1-102	T.C. 2ND CHECK-IN 127D	5"		.5	190	75	190	120	0		6.6	1.6	15	208	1	TITUS	DTFS
VAV 1-103	CORRIDOR SOUTH 807	4"		.5	190	45	190	120	0		4.9	1.6	15	208	1	TITUS	DTFS
VAV 1-104a	MULTI-PURPOSE STUDENT RESOURCE SPACE 128	8"		.5	625	250	625	120	0		21.0	5.0	15	208	1	TITUS	DTFS
VAV 1-104b	MULTI-PURPOSE STUDENT RESOURCE SPACE 128	8"		.5	625	250	625	120	0		21.0	5.0	15	208	1	TITUS	DTFS
VAV 1-105	RESOURCES ROOM 126B	4"		.5	360	145	360	120	0		4.9	1.6	15	208	1	TITUS	DTFS
VAV 1-106	DSS DIRECTOR OFFICE 126A	5"		.5	100	45	100	120	0		12.3	2.9	15	208	1	TITUS	DTFS
VAV 1-107	OFFICES 126C, 127D, 127E	8"		.5	540	220	540	120	0		29.4	5.0	15	208	1	TITUS	DTFS
VAV 1-108	MEETING/CONFERENCE 119	8"		.5	540	220	540	120	0		26.1	5.0	15	208	1	TITUS	DTFS
VAV 1-109	CORRIDOR 121A	4"		.5	140	55	140	120	0		5.5	1.6	15	208	1	TITUS	DTFS
VAV 1-110	CORRIDOR DSS 126, STORAGE 126F, STUDY ROOM 126G	4"		.5	130	55	130	120	0		5.2	1.6	15	208	1	TITUS	DTFS
VAV 1-111	CORRIDOR SOUTH 807, CUSTODIAL ROOM 125	4"		.5	150	60	150	120	0		5.7	1.6	15	208	1	TITUS	DTFS
VAV 1-112	FLEX OFFICE 121, FLEX OFFICE 123	4"		.5	100	45	100	120	0		4.9	1.6	15	208	1	TITUS	DTFS
VAV 1-113	TC RECEPTION 127, TC STORAGE 127 A, COUNSELOR'S VESTIBULE 116	5"		.5	220	90	220	120	0		7.5	1.6	15	208	1	TITUS	DTFS
VAV 1-114	SPECIAL REQ. TESTING ROOM 127C	5"		.5	260	105	260	120	0		9.1	2.9	15	208	1	TITUS	DTFS
VAV 1-115	COUNCELOR OFFICE 116A, 116B, T.C. DIRECTOR'S OFFICE 127B	10"		.5	955	385	955	120	0		32.2	10.6	15	208	1	TITUS	DTFS
VAV 1-116a	STUDENT LOBBY 113	8"		.5	625	250	625	120	0		21.0	5.0	15	208	1	TITUS	DTFS
VAV 1-116b	STUDENT LOBBY 113	8"		.5	625	250	625	120	0		21.0	5.0	15	208	1	TITUS	DTFS
VAV 1-117	ENTRY VESTIBULE WEST 804, CORRIDOR WEST 803, CORRIDOR 806	4"		.5	175	70	175	120	0		6.1	1.6	15	208	1	TITUS	DTFS
VAV 1-118	STAFF KITCHEN MULTI-ROOM 120	8"		.5	680	275	680	120	0		23.0	5.0	15	208	1	TITUS	DTFS
VAV 1-119	W/S SYST. ROOM 117, CUSTODIAL 125	4"		.5	125	50	125	120	0		5.1	1.6	15	208	1	TITUS	DTFS
VAV 1-120	LACTATION ROOM 115	5"		.5	265	120	300	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 1-121	OFFICES 109F, 109G, 109H	8"		.5	745	300	745	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 1-122	CAREER CENTER 109I	4"		.5	140	55	140	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 1-123	CORRIDOR NORTH 801	4"		.5	125	50	125	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 1-124	OFFICE 109J, CORRIDOR ADVISING 111N	4"		.5	120	55	120	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-100	OFFICES 109D, 109E	5"		.5	500	200	500	120	0		18.2	5.0	15	208	1	TITUS	DTFS
VAV 2-101	OFFICES 109B, 109C	5"		.5	495	200	495	120	0		18.2	2.9	15	208	1	TITUS	DTFS
VAV 2-102	CORRIDOR ADVISING 109	5"		.5	340	140	340	120	0		16.2	2.9	15	208	1	TITUS	DTFS
VAV 2-103	OFFICES 109K, 109L	4"		.5	140	55	140	120	0		5.5	2.9	15	208	1	TITUS	DTFS
VAV 2-104	OFFICES 110A, 110B HAWK HUB CONTACT CENTER 111	4"		.5	180	75	180	120	0		6.7	1.6	15	208	1	TITUS	DTFS
VAV 2-105	CALL CENTER 110C	12"		.5	750	300	750	120	0		0.0	1.6	15	208	1	TITUS	DTFS
VAV 2-106	CALL CENTER 110C	12"		.5	750	300	750	120	0		0.0	1.6	15	208	1	TITUS	DTFS
VAV 2-107	CORRIDOR ADMISSIONS 110	4"		.5	145	60	145	120	0		0.0	1.6	15	208	1	TITUS	DTFS
VAV 2-108	DIRECTOR'S OFFICE 110H	5"		.5	300	120	300	120	0		0.0	10.6	15	208	1	TITUS	DTFS
VAV 2-109	OFFICES 110F, 110G	5"		.5	360	150	360	120	0		1.6	0.0	15	208	1	TITUS	DTFS
VAV 2-110	OFFICES 110D, 110E	5"		.5	360	145	360	120	0		2.9	0.0	15	208	1	TITUS	DTFS
VAV 2-111	STORAGE 109A, HAWK HUB MGR'S OFFICE 101	5"		.5	245	100	245	120	0		2.9	0.0	15	208	1	TITUS	DTFS
VAV 2-112	FLEX ROOMS 102, 103	4"		.5	100	45	100	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-113	FLEX ROOMS 104. 105	4"		.5	100	45	100	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-114	HAWK HUB MGR OFFICE 106	4"		.5	100	45	100	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-115	WELCOME CENTER 100	10"		.5	930	370	930	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-116	WELCOME CENTER 100	8"		.5	800	310	800	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-117	WELCOME CENTER 100	10"		.5	840	340	840	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-118	WELCOME CENTER 100	8"		.5	810	325	810	120	0		0.0	0.0	15	208	1	TITUS	DTFS
VAV 2-119	CORRIDOR NORTH 801	4"		.5	140	60	140	120	0		0.0	0.0	15	208	1	TITUS	DTFS

SPLIT SYSTEM HEAT PUMP SCHEDULE

INDOOR	SERVING	NOMINAL TONS	CFM	COOLING EAT DB	COOLING EAT WB	COOLING SENSIBLE CAPACITY (MBH)	COOLING TOTAL CAPACITY (MBH)	HEATING EAT (DB)	HEATING CAPACITY (MBH)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES (INDOOR/OUTDOOR)
FCU-1	ELEC. ROOM 124	1.5	583	80 °F	67 °F	14.7	18.0	70 °F	21.6	208	1	DAIKIN	FAQ18PVJU
FCU-2	EMERG. ATS 122	1.5	583	80 °F	67 °F	14.7	18.0	70 °F	21.6	208	1	DAIKIN	FAQ18PVJU
FCU-3	TELECOM 118	1.5	583	80 °F	67 °F	14.7	18.0	70 °F	21.6	208	1	DAIKIN	FAQ18PVJU

NOTES:
1. ENERGY EFFICIENCY RATINGS ARE BASED ON THE RATED COMBINATION WITH THE ASSOCIATED OUTDOOR UNIT.
2. COOLING AND HEATING CAPACITIES LISTED AR CALCULATED REQUIRED CAPACITIES.
3. PROVIDE WITH R-410 REFRIGERANT.
5. REFRIGERANT PIPE SIZES SHALL BE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
6. COORDINATE LINE LENGTH REQUIREMENTS WITH THE PLANS AND THE MANUFACTURER.
7. PROVIDE INTEGRAL CONDENSATE PUMP.
8. POWER CHARACTERISTICS INDICATED IS THE TOTAL SYSTEM LOAD. INDOOR UNIT SHALL BE POWERED FROM THE OUTDOOR UNIT ELECTRICAL CONNECTION.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

DESIG.	SERVING	COOLING AMBIENT AIR TEMP	HEATING AMBIENT AIR TEMP	SEER	HSPF	ELECTRICAL MCA	MOCP	VOLTAGE	PHASE	MANUFACTURER	MODEL
SSHP-1	FCU-1	95 °F	5 °F	18.6	8.7	16.5 A	20 A	208	1	DAIKIN	RX
SSHP-2	FCU-2	95 °F	5 °F	18.6	8.7	16.5 A	20 A	208	1	DAIKIN	RX
SSHP-3	FCU-1	95 °F	5 °F	18.6	8.7	16.5 A	20 A	208	1	DAIKIN	RX

EXHAUST FAN SCHEDULE

EF NO.	SERVING	AIRFLOW (CFM)	ESP (IN. W.C.)	MOTOR-RPM	DRIVE TYPE	FAN TYPE	WATTAGE	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES	REMARKS
EF-1	MENS RSTROOM [137] & WOMENS RESTROOM [138]	820	0.38	1635	DIRCET	CENTRIFUGAL	200 W	120	1	GREENHECK	G-095-VG	
EF-2	SO REST. [109]	125	0.38	950	DIRECT	CEILING	200 W	120	1	GREENHECK	SP-A110	
EF-3	SO REST. [108]	125	0.38	950	DIRECT	CEILING	200 W	120	1	GREENHECK	SP-A110	
EF-4	CUSTODIAL ROOM (125)	220	0.38	950	DIRECT	CEILING	200 W	120	1	GREENHECK	SP-A110	

PUMP SCHEDULE

DESIG.	SERVING	GPM	PUMP HEAD	MOTOR HP	MOTOR RPM	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES
P-1	HOT WATER HEATING SYSTEM	50.0	45.00	1-1/2	3450	208	3	BELL & GOSSETT	E90
P-2	HOT WATER HEATING SYSTEM	50.0	45.00	1-1/2	3450	208	3	BELL & GOSSETT	E90

ELECTRICAL WALL HEATER SCHEDULE

DESIG	SERVING	MOUNTING TYPE	CAPACITY (MBH)	KW	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES
EWH-1	ENTRY VESTIBULE SOUTH	SURFACE MOUNT	5.1	1.5 kW	208	1	QMARK	AWH
EWH-2	VESTIBULE EAST	SURFACE MOUNT	5.1	1.5 kW	208	1	QMARK	AWH
EWH-3	ENTRY VESTIBULE WEST	SURFACE MOUNT	5.1	1.5 kW	208	1	QMARK	AWH

(ADD ALTERNATE #2) BOILER SCHEDULE

DESIG	SERVING	GAS INPUT (BTU/HR)	ENERGY EFFICIENCY	STORAGE CAP. (GAL)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES
B-1	HOT WATER HEATING SYSTEM	600000	97.5%	12.0	120	1	LONCHINVAR	FTX600
B-2	HOT WATER HEATING SYSTEM	600000	97.5%	12.0	120	1	LONCHINVAR	FTX600

EXPANSION TANK SCHEDULE

ET NO	SERVING	TANK VOLUME	MAXIMUM ACCEPTANCE FACTOR	MANUFACTURER	SERIES
ET-1	B-1	53.0 gal	53.0 gal	BELL & GOSSETT	B-200
ET-2	B-1	53.0 gal	53.0 gal	BELL & GOSSETT	B-200

ELECTRICAL CEILING HEATER SCHEDULE

DESIG	SERVING	MOUNTING TYPE	CAPACITY (MBH)	KW	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	MANUFACTURER	SERIES
ECH-1	WC ENTRY VESTIBULE	SURFACE MOUNT	5.1	1.5	208	1	QMARK	CDF SERIES

AIR SEPERATOR SCHEDULE

DESIG.	SERVING	GPM	PRESSURE DROP	MANUFACTURER	SERIES ID
AS-1	B-1	50	0.68	BELL & GOSSETT	RL-2N
AS-2	B-2	50	0.68	BELL & GOSSETT	RL-2N

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL — Name — Title — Date
DGS APPROVAL — Project Manager — Date — Chief of PMM&D — Date

REVISIONS — MARK — DATE — BY — DESCR

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 43951, expiration date 06/04/2024.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND — ANDREW H. JUN — 43951 — PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION
MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: MECHANICAL SCHEDULE

SHEET: M-701

AIR TERMINAL SCHEDULE - SUPPLY DIFFUSER

ID	AIRFLOW (CFM)	NECK SIZE	FACE SIZE	MAX NC RATING	MANUFACTURER	SERIES
SD-1	215	10"	24"x24"	12	TITUS	OMNI
SD-2	190	8"	24"x24"	12	TITUS	OMNI
SD-3	425	12"	24"x24"	12	TITUS	OMNI
SD-4	75	6"	24"x24"	13	TITUS	OMNI
SD-5	160	8"	24"x24"	12	TITUS	OMNI
SD-6	140	8"	12"x12"	12	TITUS	OMNI
SD-7	140	8"	12"x12"	12	TITUS	OMNI
SD-8	140	8"	12"x12"	12	TITUS	OMNI
SD-9	50	6"	24"x24"	13	TITUS	OMNI
SD-10	50	6"	12"x12"	13	TITUS	OMNI
SD-11	60	6"	12"x12"	13	TITUS	OMNI
SD-12	20	6"	12"x12"	13	TITUS	TDC
SD-13	140	8"	24"x24"	12	TITUS	OMNI
SD-14	30	6"	12"x12"	13	TITUS	TDC
SD-15	120	8"	24"x24"	12	TITUS	OMNI
SD-16	60	6"	12"x12"	13	TITUS	OMNI
SD-17	30	6"	24"x24"	13	TITUS	OMNI
SD-18	305	10"	24"x24"	15	TITUS	OMNI
SD-19	305	10"	24"x24"	15	TITUS	OMNI
SD-20	230	10"	24"x24"	12	TITUS	OMNI
SD-21	230	10"	24"x24"	12	TITUS	OMNI
SD-22	275	10"	24"x24"	15	TITUS	OMNI
SD-23	140	8"	24"x24"	12	TITUS	OMNI
SD-24	65	6"	24"x24"	13	TITUS	OMNI
SD-25	65	6"	24"x24"	13	TITUS	OMNI
SD-26	65	6"	24"x24"	13	TITUS	OMNI
SD-27	80	6"	24"x24"	13	TITUS	OMNI
SD-28	55	6"	24"x24"	13	TITUS	OMNI
SD-29	140	8"	12"x12"	12	TITUS	OMNI
SD-30	60	6"	24"x24"	13	TITUS	OMNI
SD-31	60	6"	24"x24"	13	TITUS	OMNI
SD-32	60	6"	24"x24"	13	TITUS	OMNI
SD-33	70	6"	24"x24"	13	TITUS	OMNI
SD-34	45	6"	24"x24"	13	TITUS	OMNI
SD-35	30	6"	24"x24"	13	TITUS	OMNI
SD-36	80	6"	24"x24"	13	TITUS	OMNI
SD-37	125	8"	12"x12"	13	TITUS	TDC
SD-39	225	10"	24"x24"	13	TITUS	OMNI
SD-40	225	10"	24"x24"	13	TITUS	OMNI
SD-41	375	10"	24"x24"	15	TITUS	OMNI
SD-42	375	10"	24"x24"	15	TITUS	OMNI
SD-43	85	6"	24"x24"	12	TITUS	OMNI
SD-44	60	6"	24"x24"	12	TITUS	OMNI
SD-45	100	8"	24"x24"	13	TITUS	OMNI
SD-46	50	6"	24"x24"	13	TITUS	OMNI
SD-47	50	6"	24"x24"	13	TITUS	OMNI
SD-48	50	6"	24"x24"	13	TITUS	OMNI
SD-49	50	6"	24"x24"	13	TITUS	OMNI
SD-50	270	10"	24"x24"	15	TITUS	OMNI
SD-51	270	10"	24"x24"	15	TITUS	OMNI
SD-53	270	10"	24"x24"	15	TITUS	OMNI
SD-54	25	6"	12"x12"	13	TITUS	TDC
SD-55	25	6"	12"x12"	13	TITUS	TDC
SD-59	60	6"	12"x12"	13	TITUS	OMNI
SD-60	100			18	TITUS	ML
SD-61	125			18	TITUS	ML

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.1 IN. W.C. FOR SUPPLY AIR.
2. WHERE DIFFUSER IS TO BE INSTALLED IN A LAY-IN CEILING, IT SHALL HAVE PANELS TO FIT INTO A 24 x 24 MODULAR LAY-IN CEILING GRID.
3. COORDINATE BORDER TYPE WITH ARCHITECTURAL DRAWINGS OR EXISTING CONDITIONS.
4. PATTERN TO BE 4-WAY THROW UNLESS NOTED OTHERWISE.

AIR TERMINAL SCHEDULE - LINEAR SLOT DIFFUSER

ID	AIRFLOW (CFM)	NO OF SLOTS	SLOT SIZE (INCH)	LENGTH	MAX NC RATING	MANUFACTURER	SERIES
LS-1	280	2	1	6' - 0"	23	TITUS	ML
LS-2	280	2	1	6' - 0"	23	TITUS	ML
LS-3	280	2	1	6' - 0"	23	TITUS	ML
LS-4	240	2	1	6' - 0"	23	TITUS	ML
LS-5	200	2	1	4' - 0"	23	TITUS	ML
LS-6	200	2	1	4' - 0"	23	TITUS	ML
LS-8	180	2	1	6' - 0"	16	TITUS	ML
LS-9	180	2	1	6' - 0"	16	TITUS	ML
LS-10	180	2	1	6' - 0"	16	TITUS	ML
LS-11	180	2	1	6' - 0"	16	TITUS	ML
LS-12	180	2	1	6' - 0"	16	TITUS	ML
LS-13	180	2	1	6' - 0"	16	TITUS	ML
LS-14	330	2	1	6' - 0"	23	TITUS	ML
LS-15	330	2	1	6' - 0"	23	TITUS	ML
LS-16	330	2	1	6' - 0"	23	TITUS	ML
LS-17	185	2	1	4' - 0"	18	TITUS	ML
LS-18	330	2	1	6' - 0"	23	TITUS	ML
LS-19	330	2	1	6' - 0"	23	TITUS	ML
LS-20	330	2	1	6' - 0"	23	TITUS	ML
LS-21	260	3	1	4' - 0"	23	TITUS	ML
LS-22	180	2	1	4' - 0"	18	TITUS	ML
LS-23	180	2	1	4' - 0"	18	TITUS	ML
LS-24	175	2	1	4' - 0"	18	TITUS	ML
LS-25	175	2	1	4' - 0"	18	TITUS	ML
LS-26	250	2	1	6' - 0"	23	TITUS	ML
LS-27	265	2	1	6' - 0"	23	TITUS	ML
LS-28	210	2	1	4' - 0"	23	TITUS	ML
LS-29	260	2	1	6' - 0"	23	TITUS	ML
LS-30	250	3	1	4' - 0"	23	TITUS	ML
LS-31	250	3	1	4' - 0"	23	TITUS	ML
LS-32	245	3	1	4' - 0"	23	TITUS	ML
LS-33	250	3	1	4' - 0"	23	TITUS	ML
LS-34	255	2	1	6' - 0"	23	TITUS	ML
LS-35	300	2	1	6' - 0"	23	TITUS	ML
LS-36	180	2	1	4' - 0"	18	TITUS	ML
LS-37	180	2	1	4' - 0"	18	TITUS	ML
LS-38	295	2	1	6' - 0"	23	TITUS	ML
LS-39	300	2	1	6' - 0"	23	TITUS	ML
LS-40	300	2	1	6' - 0"	23	TITUS	ML
LS-41	120	2	1	4' - 0"	16	TITUS	ML
LS-42	120	2	1	4' - 0"	16	TITUS	ML
LS-43	120	2	1	4' - 0"	16	TITUS	ML
LS-44	120	2	1	4' - 0"	16	TITUS	ML
LS-46	300	2	1	6' - 0"	23	TITUS	ML
LS-47	220	3	1	4' - 0"	23	TITUS	ML
LS-48	155	2	1	4' - 0"	15	TITUS	ML
LS-49	155	2	1	4' - 0"	15	TITUS	ML
LS-50	155	2	1	4' - 0"	15	TITUS	ML
LS-51	155	2	1	4' - 0"	15	TITUS	ML
LS-52	155	2	1	4' - 0"	15	TITUS	ML
LS-53	155	2	1	4' - 0"	15	TITUS	ML
LS-54	90	2	1	4' - 0"	13	TITUS	ML
LS-55	90	2	1	4' - 0"	13	TITUS	ML
LS-56	90	2	1	4' - 0"	13	TITUS	ML
LS-57	90	2	1	4' - 0"	13	TITUS	ML
LS-58	90	2	1	4' - 0"	13	TITUS	ML
LS-59	90	2	1	4' - 0"	13	TITUS	ML
LS-60	90	2	1	4' - 0"	13	TITUS	ML
LS-61	90	2	1	4' - 0"	13	TITUS	ML
LS-62	140	2	1	4' - 0"	16	TITUS	ML
LS-63	140	2	1	4' - 0"	16	TITUS	ML
LS-64	140	2	1	4' - 0"	16	TITUS	ML
LS-65	140	2	1	4' - 0"	16	TITUS	ML
LS-66	140	2	1	4' - 0"	16	TITUS	ML
LS-67	140	2	1	4' - 0"	16	TITUS	ML
LS-68	80	2	1	4' - 0"	16	TITUS	ML
LS-69	100	2	1	4' - 0"	16	TITUS	ML
LS-70	80	2	1	4' - 0"	13	TITUS	ML
LS-71	90	2	1	4' - 0"	18	TITUS	ML

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.1 IN. W.C. FOR SUPPLY AIR.
2. LINEAR SLOT DIRECTION SHALL BE ADJUSTED SO THAT AT LEAST (1) SLOT IS DIRECTED AT THE GLAZING AND (1) SLOT SHALL BE DIRECTED TO THE SPACE. SLOTS SHALL BE ADJUSTED AFTER TURN-OVER AS REQUESTED BY THE OWNER.
3. PROVIDE WITH MANUFACTURER INSULATED PLENUMS.

AIR TERMINAL SCHEDULE - LINEAR SLOT RETURN

ID	NO OF SLOTS	SLOT WIDTH (INCH)	LENGTH	MOUNTING TYPE	MAX NC RATING	MANUFACTURER	SERIES
LR-1	2	1"	4' - 1"		22	TITUS	MLR
LR-2	2	1"	4' - 1"		22	TITUS	MLR
LR-3	2	1"	4' - 1"		22	TITUS	MLR
LR-4	2	1"	6' - 0"		22	TITUS	MLR
LR-5	2	1"	6' - 0"		22	TITUS	MLR
LR-6	2	1"	6' - 0"		22	TITUS	MLR
LR-7	2	1"	6' - 0"		22	TITUS	MLR
LR-8	2	1"	6' - 0"		22	TITUS	MLR
LR-9	2	1"	6' - 0"		22	TITUS	MLR
LR-10	2	1"	4' - 0"		22	TITUS	MLR
LR-11	2	1"	4' - 0"		22	TITUS	MLR
LR-12	2	1"	6' - 0"		22	TITUS	MLR
LR-13	2	1"	6' - 0"		22	TITUS	MLR
LR-14	2	1"	6' - 0"		22	TITUS	MLR
LR-15	2	1"	6' - 0"		22	TITUS	MLR
LR-16	2	1"	6' - 0"		22	TITUS	MLR
LR-17	2	1"	6' - 0"		22	TITUS	MLR
LR-18	2	1"	6' - 0"		22	TITUS	MLR
LR-19	2	1"	6' - 0"		22	TITUS	MLR
LR-20	2	1"	6' - 0"		22	TITUS	MLR
LR-21	2	1"	6' - 0"		22	TITUS	MLR
LR-22	2	1"	4' - 0"		22	TITUS	MLR

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.5 IN. W.C. FOR RETURN AIR.
2. LINEAR SLOT DIRECTION SHALL BE ADJUSTED SO THAT AT LEAST (1) SLOT IS DIRECTED AT THE GLAZING AND (1) SLOT SHALL BE DIRECTED TO THE SPACE. SLOTS SHALL BE ADJUSTED AFTER TURN-OVER AS REQUESTED BY THE OWNER.
3. PROVIDE WITH MANUFACTURER INSULATED PLENUMS.

AIR TERMINAL SCHEDULE - RETURN AIR GRILLE

ID	FACE SIZE	MOUNTING TYPE	MAX NC RATING	MANUFACTURER	SERIES
RG-1	24"x24"			TITUS	
RG-2	24"x24"			TITUS	
RG-3	24"x24"			TITUS	
RG-4	24"x24"			TITUS	
RG-5	24"x24"			TITUS	
RG-6	24"x24"			TITUS	
RG-7	24"x24"			TITUS	
RG-8	24"x24"			TITUS	
RG-9	24"x24"			TITUS	
RG-10	24"x24"			TITUS	
RG-11	24"x24"			TITUS	
RG-12	24"x24"			TITUS	
RG-13	24"x24"			TITUS	
RG-14	24"x24"			TITUS	
RG-15	24"x24"			TITUS	
RG-16	24"x24"			TITUS	
RG-17	24"x24"			TITUS	
RG-18	24"x24"			TITUS	
RG-19	24"x24"			TITUS	
RG-20	24"x24"			TITUS	
RG-21	24"x24"			TITUS	
RG-22	24"x24"			TITUS	
RG-23	24"x24"			TITUS	
RG-24	24"x24"			TITUS	
RG-25	24"x24"			TITUS	
RG-26	24"x24"			TITUS	
RG-27	24"x24"			TITUS	
RG-28	24"x24"			TITUS	
RG-29	24"x24"			TITUS	
RG-30	24"x24"			TITUS	
RG-31	24"x24"			TITUS	
RG-32	24"x24"			TITUS	
RG-33	24"x24"			TITUS	
RG-34	24"x24"			TITUS	
RG-35	24"x24"			TITUS	
RG-36	24"x24"			TITUS	
RG-37	24"x24"			TITUS	
RG-38	24"x24"			TITUS	
RG-39	24"x24"			TITUS	
RG-40	24"x24"			TITUS	
RG-41	24"x24"			TITUS	
RG-42	24"x24"			TITUS	
RG-43	24"x24"			TITUS	
RG-44	24"x24"			TITUS	
RG-45	24"x24"			TITUS	
RG-46	24"x24"			TITUS	
RG-47	24"x24"			TITUS	
RG-48	24"x24"			TITUS	
RG-49	24"x24"			TITUS	
RG-50	24"x24"			TITUS	
RG-51	24"x24"			TITUS	
RG-52	24"x24"			TITUS	
RG-53	24"x24"			TITUS	
RG-54	24"x24"			TITUS	

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.05 IN. W.C. FOR RETURN AIR.
2. LENGTH AND WIDTH NOTED IS THE DUCT CONNECTION SIZE.
3. COORDINATE BORDER TYPE WITH ARCHITECTURAL DRAWINGS OR EXISTING CONDITIONS.

H - AIR TERMINAL SCHEDULE - EXHAUST AIR REGISTER

ID	CFM	LENGTH	WIDTH	MOUNTING TYPE	MAX NC RATING	MANUFACTURER	SERIES
EG-1	410 CFM	12"	12"	CEILING	20	TITUS	350RL
EG-2	410 CFM	12"	12"	CEILING	20	TITUS	350RL

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.05 IN. W.C. FOR EXHAUST AIR.
2. LENGTH AND WIDTH NOTED IS THE DUCT CONNECTION SIZE.
3. COORDINATE BORDER TYPE WITH ARCHITECTURAL DRAWINGS OR EXISTING CONDITIONS.

H - AIR TERMINAL SCHEDULE - TRANSFER AIR GRILLE

ID	LENGTH	WIDTH	MOUNTING TYPE	MAX NC RATING	MANUFACTURER	SERIES
TG-1	8"	8"	CEILING	20	TITUS	350RL
TG-2	8"	8"	CEILING	20	TITUS	350RL
TG-3	8"	8"	CEILING	20	TITUS	350RL
TG-4	8"	8"	CEILING	20	TITUS	350RL
TG-5	8"	8"	CEILING	20	TITUS	350RL
TG-6	8"	8"	CEILING	20	TITUS	350RL
TG-7	8"	8"	CEILING	20	TITUS	350RL
TG-8	8"	8"	CEILING	20	TITUS	350RL
TG-9	8"	8"	CEILING	20	TITUS	350RL
TG-10	8"	8"	CEILING	20	TITUS	350RL
TG-11	8"	8"	CEILING	20	TITUS	350RL
TG-12	8"	8"	CEILING	20	TITUS	350RL
TG-13	8"	8"	CEILING	20	TITUS	350RL
TG-14	8"	8"	CEILING	20	TITUS	350RL

NOTES:
1. MAXIMUM PRESSURE DROP SHALL BE 0.05 IN. W.C. FOR TRANSFER AIR.
2. LENGTH AND WIDTH NOTED IS THE DUCT CONNECTION SIZE.
3. COORDINATE BORDER TYPE WITH ARCHITECTURAL DRAWINGS OR EXISTING CONDITIONS.

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
DGS APPROVAL

MARK | DATE | BY | DESCR
REVISIONS

DATE 12.09.2022
PROJECT 210066.00
DESIGNED
DRAWN
CHECKED

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND · ANDREW H. LIN · 43957 · PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION
MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: MECHANICAL SCHEDULE

SHEET M-702

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt
12/8/2022 5:55:31 PM

LIGHTING SYMBOLS

- LIGHTING FIXTURE, CEILING MOUNTED
- LIGHTING FIXTURE, WALL MOUNTED
- LIGHTING FIXTURE, PENDANT MOUNTED
- TRACK LIGHT, TRIANGLES INDICATE TRACK FIXTURES
- LED LIGHT TAPE
- EMERGENCY LIGHTING FIXTURE
- EMERGENCY BATTERY TYPE LIGHTING FIXTURE
- EMERGENCY REMOTE HEAD TYPE LIGHTING FIXTURE
- EXIT SIGN, SINGLE FACE, CEILING/WALL MOUNTED
- EXIT SIGN, DOUBLE FACE, CEILING/WALL MOUNTED
- EXIT SIGN, AS ABOVE, WITH DIRECTIONAL ARROWS
- COMBINATION EXIT SIGN EMERGENCY LIGHT, SINGLE FACE, WALL MOUNTED
- S SINGLE POLE TOGGLE SWITCH
- S_3 THREE-WAY TOGGLE SWITCH
- S_4 FOUR-WAY TOGGLE SWITCH
- S_D DIMMER CONTROL SWITCH
- S_{LV} LOW VOLTAGE PUSHBUTTON WALL STATION
- S_{LVD} LOW VOLTAGE PUSHBUTTON WALL STATION WITH DIMMING CONTROL
- S_O LIGHTING CONTROL OCCUPANCY/VACANCY SENSOR WALL SWITCH
- S_{OD} LIGHTING CONTROL OCCUPANCY/VACANCY SENSOR DIMMING WALL SWITCH
- S_{WP} WEATHERPROOF LIGHTING CONTROL SWITCH, TYPE AS NOTED
- S_K WALL MOUNTED KEY SWITCH
- S_F CEILING FAN SWITCH, COORDINATE STYLE AND CONTROL FUNCTION WITH FAN
- S_S SHADE CONTROL SWITCH, COORDINATE STYLE AND CONTROL FUNCTION WITH SHADE
- J_F CEILING FAN RATED JUNCTION BOX, CEILING MOUNTED
- OS LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED
- OC LIGHTING CONTROL OCCUPANCY SENSOR FOR CORRIDOR, CEILING MOUNTED
- OW LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED
- C LIGHTING CONTACTOR, AS NOTED OR SCHEDULED
- TC TIME CLOCK
- RC LIGHTING ROOM CONTROLER, LOW VOLTAGE
- ZC LIGHTING ZONE CONTROLLER, LOW VOLTAGE
- DL LIGHTING DAYLIGHT SENSOR, CEILING MOUNTED
- ER EMERGENCY LIGHTING RELAY FOR OVERRIDE CONTROL
- POLE ARM MOUNTED SITE LIGHTING SINGLE FIXTURE
- POLE ARM MOUNTED SITE LIGHTING DOUBLE FIXTURE
- POST TOP MOUNTED SITE LIGHTING FIXTURE
- PC PHOTOCELL, WALL MOUNTED

POWER SYMBOLS

- DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-15R/5-20R, PER SPECIFICATION
- DOUBLE DUPLEX (QUAD) RECEPTACLE NEMA CONFIGURATION 5-15R/5-20R, PER SPECIFICATION
- DUPLEX RECEPTACLE AS ABOVE, GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE OR PROTECTED BY UPSTREAM GFCI RECEPTACLE.
- DUPLEX RECEPTACLE AS ABOVE, COUNTERTOP
- DUPLEX RECEPTACLE AS ABOVE, COUNTERTOP GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE OR PROTECTED BY UPSTREAM GFCI RECEPTACLE.
- WP WEATHER RESISTANT GFCI DUPLEX RECEPTACLE AS ABOVE, WITH WEATHERPROOF COVER
- R 20A SIMPLEX RECEPTACLE, DEDICATED FOR REFRIGERATOR
- W DUPLEX RECEPTACLE AS ABOVE, DEDICATED FOR CLOTHES WASHER
- M 20A SIMPLEX RECEPTACLE, DEDICATED FOR ABOVE RANGE MICROWAVE
- M DUPLEX RECEPTACLE AS ABOVE, DEDICATED FOR COUNTERTOP MICROWAVE
- D 20A SIMPLEX RECEPTACLE, DEDICATED FOR DISHWASHER
- H DUPLEX RECEPTACLE AS ABOVE, HORIZONTAL MOUNTING
- U DUPLEX RECEPTACLE AS ABOVE, WITH TWO INTEGRAL USB PORTS
- GD 20A SIMPLEX RECEPTACLE, DEDICATED FOR GARBAGE DISPOSAL
- DUPLEX RECEPTACLE AS ABOVE, SPLIT YOKE, BOTTOM SECTION OF RECEPTACLE SHALL BE SWITCHED, TOP SHALL ALWAYS BE HOT.
- DUPLEX RECEPTACLE AS ABOVE, STANDBY POWER (SUBSCRIPT DESIGNATIONS SAME AS ABOVE)
- DUPLEX RECEPTACLE AS ABOVE, CEILING MOUNTED.
- DUPLEX RECEPTACLE AS ABOVE, IN FLOOR BOX
- COMBINATION DUPLEX RECEPTACLE/DATA OUTLET, IN FLOOR BOX. REFER TO LOW VOLTAGE DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. PROVIDE 3/4" CONDUIT WITHIN SLAB TO NEAREST ADJACENT WALL, AND UP TO ACCESSIBLE CEILING FOR POWER WIRING. PROVIDE 1" CONDUIT WITH PULLSTRING WITHIN SLAB TO NEAREST ADJACENT WALL, AND UP TO ACCESSIBLE CEILING FOR LOW VOLTAGE CABLING BY OTHERS.
- TV COMBINATION REC/TV OUTLET, PROVIDE DUPLEX RECEPTACLE AND WIRING WITH VOLTAGE DIVIDER. REFER TO LOW VOLTAGE DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
- DUPLEX RECEPTACLE AS ABOVE, PROVIDE WITH CORD REEL MOUNTED TO STRUCTURE
- SIMPLEX SINGLE RECEPTACLE, NEMA CONFIGURATION 5-15R/5-20R PER SPECIFICATION (SUBSCRIPT DESIGNATIONS SAME AS ABOVE)
- SPECIAL RECEPTACLE, NEMA TYPE AS INDICATED ON PLAN
- R RANGE RECEPTACLE, NEMA 14-50R
- D DRYER RECEPTACLE, NEMA 14-30R
- 208Y/120V PANELBOARD, EXTENDED FRONT LINES INDICATE RECESSED, OTHERWISE SURFACE MOUNTED.
- 480Y/277V PANELBOARD, EXTENDED FRONT LINES INDICATE RECESSED, OTHERWISE SURFACE MOUNTED.
- 120/240V PANELBOARD, EXTENDED FRONT LINES INDICATE RECESSED, OTHERWISE SURFACE MOUNTED.
- J JUNCTION BOX - CEILING, WALL OR FLOOR MOUNTED
- S_M MANUAL MOTOR STARTER SWITCH - NO OVERLOADS
- S_{MOL} MANUAL MOTOR STARTER SWITCH - W/ OVERLOADS
- S_T TIMER SWITCH
- SAFETY SWITCH
- COMBINATION TYPE MOTOR STARTER
- ENCLOSED CIRCUIT BREAKER
- MOTOR STARTER
- GAP GENERATOR ANNUNCIATOR PANEL
- EP EMERGENCY STOP PUSHBUTTON STATION
- MH IN-GRADE MANHOLE, TYPE AS NOTED
- HH IN-GRADE HANDHOLE, TYPE AS NOTED
- METER
- SMOKE ALARM INTERCONNECT WIRING
- UE UNDERGROUND ELECTRIC
- OE OVERHEAD ELECTRIC
- UT UNDERGROUND TELECOMMUNICATIONS
- OT OVERHEAD TELECOMMUNICATIONS

FIRE ALARM SYSTEM SYMBOLS

- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FAEP FIRE ALARM EXPANDER PANEL
- FIRE ALARM HORN/STROBE COMBINATION, WALL MOUNTED
- FIRE ALARM STROBE, WALL MOUNTED
- FIRE ALARM HORN, WALL MOUNTED
- FIRE ALARM SPEAKER/STROBE, WALL MOUNTED
- FIRE ALARM SPEAKER, WALL MOUNTED
- FIRE ALARM HORN/STROBE COMBINATION, CEILING MOUNTED
- FIRE ALARM STROBE, CEILING MOUNTED
- FIRE ALARM HORN, CEILING MOUNTED
- FIRE ALARM SPEAKER, CEILING MOUNTED
- FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED
- F FIRE ALARM MANUAL PULL STATION
- HD FIRE ALARM HEAT DETECTOR, CEILING MOUNTED
- SD FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED
- DD FIRE ALARM DUCT SMOKE DETECTOR
- SC FIRE ALARM COMBINATION SMOKE/CARBON MONOXIDE DETECTOR, CEILING MOUNTED
- SD SINGLE- OR MULTI-STATION SMOKE DETECTOR, CEILING MOUNTED
- CO SINGLE- OR MULTI-STATION CARBON MONOXIDE DETECTOR, CEILING MOUNTED
- SC SINGLE- OR MULTI-STATION COMBINATION SMOKE/CARBON MONOXIDE DETECTOR, CEILING MOUNTED
- FS SPRINKLER FLOW SWITCH
- TS SPRINKLER VALVE TAMPER SWITCH
- PS DRY PIPE SPRINKLER PRESSURE SWITCH
- DH DOOR HOLD OPEN DEVICE
- CM CONTROL MODULE
- MM MONITOR MODULE
- FSD FIRE SMOKE DAMPER
- FH FIRE ALARM INTERFACE WITH HOOD SUPPRESSION SYSTEM
- F FIREMANS PHONE

COMMUNICATIONS SYSTEMS SYMBOLS

- DB DOORBELL, HARD WIRED
- DOORBELL CHIME
- D DOORBELL LIGHT
- S AUDIO SYSTEM SPEAKER
- W WIFI ACCESS POINT, PROVIDE CAT6 CABLING BACK TO LOCAL TELECOM ROOM
- P AV PROJECTOR, COORDINATE WITH AV INSTALLER FOR AV REQUIREMENTS
- EC EMERGENCY CALL STATION
- E EMERGENCY CALL LIGHT, CEILING MOUNTED
- E EMERGENCY CALL LIGHT, WALL MOUNTED
- ECSC EMERGENCY CALL SYSTEM CONTROLLER
- MIC MICROPHONE JACK
- AV AUDIO/VISUAL VOLUME CONTROL STATION
- C TWO-WAY COMMUNICATION SYSTEM CALL STATION

ACCESS CONTROL AND DETECTION SYSTEMS SYMBOLS

- P CCTV CAMERA LOCATION, PROVIDE JUNCTION BOX WITH 3/4" CONDUIT BACK TO CCTV MONITORING SYSTEM. "P" SUBSCRIPT INDICATES POWER FOR HEATER, PROVIDE CIRCUIT AS INDICATED.
- MON CCTV MONITOR LOCATION
- CR CARD/FOB READER ACCESS CONTROLLED DOOR ROUGH-IN, PROVIDE 1/2"C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- KP KEYPAD ACCESS CONTROLLED DOOR ROUGH-IN, COORDINATE LOCATION WITH ARCHITECT.
- DS ELECTRIC DOOR STRIKE, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- DC DOOR CONTACT SWITCH, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- MD MOTION DETECTOR, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- PB DOOR OPERATOR PUSH BUTTON ROUGH-IN, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- ADO AUTOMATIC DOOR OPERATOR, INTERCONNECT WITH DOOR OPERATOR, COORDINATE LOCATION WITH ARCHITECT.
- DR DOOR RELEASE SWITCH, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- DA UNDERCOUNTER DURESS ALARM, PROVIDE 1/2" C TO ACCESSIBLE LOCATION, COORDINATE LOCATION WITH ARCHITECT.
- ACS ACCESS CONTROL SYSTEM
- SEC SECURITY SYSTEM CONTROLLER
- TEI TENANT ENTRY MAIN INTERCOM
- TE TENANT ENTRY APARTMENT INTERCOM

CONTROL/SINGLE LINE DIAGRAM SYMBOLS

- AUTOMATIC TRANSFER SWITCH
  - LS - LIFE SAFETY
  - LR - LEGALLY REQUIRED
  - SB - STANDBY
- M METER
- CIRCUIT BREAKER
- CURRENT TRANSFORMER
- C CONTACTOR COIL
- NORMALLY OPEN CONTACTS
- NORMALLY CLOSED CONTACTS
- TC TIME CLOCK
- FUSE
- FUSED SWITCH
- NON-FUSED SWITCH
- THERMAL OVERLOAD
- TRANSFORMER
- GENERATOR
- MOTOR CONNECTION - HP AS INDICATED
- GROUND CONNECTION - # DENOTES SIZE
- SPD SURGE PROTECTION DEVICE

ELECTRICAL MOUNTING HEIGHT SCHEDULE

Symbol	Device	Height
$	SWITCHES	46" AFF TO ℄ (UNO)
	RECEPTACLES	18" AFF TO ℄ (UNO)
	COUNTER RECEPTACLES	9" ABOVE COUNTER TO ℄ (UNO)
R	REFRIGERATOR REC.	46" AFF TO ℄ (UNO)
W	CLOTHES WASHER REC.	46" AFF TO ℄ (UNO)
M	MICROWAVE REC.	ABOVE RANGE: INSIDE UPPER CABINET
M	MICROWAVE REC.	9" ABOVE COUNTER TO ℄ (UNO)
D	DISHWASHER REC.	IN BASE CABINET
GD	GARBAGE DISPOSAL REC.	IN BASE CABINET
R	RANGE RECEPTACLE	COORDINATE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS
D	DRYER RECEPTACLE	46" AFF TO ℄ (UNO)
	PANELBOARDS	6'-6" AFF TO TOP OF PANEL
	LOAD CENTERS RESIDENTIAL UNITS	48" AFF TO TOP OF PANEL
	MISC. EQUIPMENT BOXES	COORDINATE IN FIELD
F	MANUAL PULLSTATIONS	46" AFF TO ℄ (UNO)
F F F	WALL MOUNTED FIRE ALARM NOTIFICATION APPLIANCES	6'-8" AFF
TV	TV OUTLET	18" AFF TO ℄ (UNO)
TV	COMBINATION TV/REC OUTLET	COORDINATE MOUNTING HEIGHT SUCH THAT DEVICE IS CENTERED BEHIND TV. COORDINATE TV LOCATION WITH AV INSTALLER
	LED EXIT SIGN	6" ABOVE DOOR FRAME
+#	ITEMIZED MOUNTING HEIGHT	HEIGHT DESIGNATED BY SUBSCRIPT

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ADA	AMERICAN DISABILITY ACT
AWG	AMERICAN WIRE GAUGE
A	AMPERE(S)
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ATS	AUTOMATIC TRANSFER SWITCH
BATT	BATTERY
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BPS	BOLTED PRESSURE SWITCH
BLDG	BUILDING
CATV	CABLE TELEVISION
C	CONDUIT
CLG	CEILING
CKT	CIRCUIT
C/B	CIRCUIT BREAKER
CONT	CONTINUATION
CU	COPPER
CT	CURRENT TRANSFORMER
Δ	DELTA CONNECTED
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DC	DIRECT CURRENT
DISC	DISCONNECT
DAS	DISTRIBUTED ANTENNA SYSTEM
2P	DOUBLE POLE
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DT	DOUBLE THROW
DWG	DRAWING
DE/TD	DUAL ELEMENT / TIME DELAY
EMT	ELECTRICAL METALLIC TUBING
E	EMERGENCY
EC	EMPTY CONDUIT
ECB	ENCLOSED CIRCUIT BREAKER
EMS	ENERGY MANAGEMENT SYSTEM
EV	ELECTRIC VEHICLE
EF	EXHAUST FAN
EX	EXISTING
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
FT	FEET
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EXTENDER PANEL
4P	FOUR POLE
FLA	FULL LOAD AMPERES
F	FUSED OR FUSIBLE
FSS	FUSED SAFETY SWITCH
FS	FUSED SWITCH
G/GRD	GROUND
GB	GROUND BAR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTOMATIC
HZ	HERTZ
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HP	HORSEPOWER
IG	ISOLATED GROUND
IT	INFORMATION TECHNOLOGY
ITGB	INFORMATION TECHNOLOGY GROUND BAR
J/JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LTG	LIGHTING
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MGB	MAIN GROUND BAR
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MH	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT (UNSWITCHED)
NFSS	NON-FUSED SAFETY SWITCH
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OE	OVERHEAD ELECTRIC
OT	OVERHEAD TELECOMMUNICATIONS
PNL	PANELBOARD
∅ / PH	PHASE
P	POLE
PVC	POLYVINYL CHLORIDE
PT	POTENTIAL TRANSFORMER
PWR	POWER
PF	POWER FACTOR
PRI	PRIMARY
REC	RECEPTACLE
RL	REMOVE AND RETAIN FOR RELOCATION
RM	ROOM
RMS	ROOT MEAN SQUARE
RX	REMOVE EXISTING
SS	SAFETY DISCONNECT SWITCH
SEC	SECONDARY
SD	SERVICE DISCONNECT
Isc	SHORT CIRCUIT CURRENT (RMS SYMMETRICAL AMPERES)
SCCR	SHORT CIRCUIT CURRENT RATING
1P	SINGLE POLE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TMS	THERMAL MANUAL SWITCH
KCM	THOUSAND CIRCULAR MILS
3P	THREE POLE
XFMR	TRANSFORMER
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UT	UNDERGROUND TELECOMMUNICATIONS
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT-AMPERE
WH	WATER HEATER
W	WATTS, WIRE
WP	WEATHERPROOF
W/	WITH
WCR	WITHSTAND AND CLOSE-ON RATING
Y	WYE CONNECTED

GENERAL NOTES - DIVISION 26

1. PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS.
2. "DRAWING NOTES" APPLY TO WORK ON THAT INDIVIDUAL DRAWING. "SPECIFIC NOTES" APPLY ONLY WHERE INDICATED WITH THE "SPECIFIC NOTE" SYMBOL.
3. WIRE AND CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.
4. VOLTAGE DROP CALCULATIONS ARE BASED ON CIRCUIT LOADING AND DISTANCES GENERALLY AS CIRCUITED ON PLAN. IF ALTERNATE CONDUIT ROUTING, CIRCUIT LOADING, OR CONDUCTOR MATERIAL IS PROVIDED, VERIFY VOLTAGE DROP, AND SUBMIT VOLTAGE DROP CALCULATIONS PER SPECIFICATION.
5. UNLESS OTHERWISE NOTED, CIRCUITS HAVE NOT BEEN DERATED FOR CONDUCTOR BUNDLING, NOR HAVE CONDUITS BEEN SIZED FOR MULTIPLE CIRCUITS. IF MULTIPLE CIRCUITS ARE INSTALLED IN A SINGLE RACEWAY, DERATE CONDUCTOR AMPACITY PER NEC, AND PROVIDE APPROPRIATE SIZE CONDUIT. WHERE CONDUIT SIZE INCREASES, COORDINATE WITH ADJACENT UTILITIES AND BUILDING FEATURES.
6. INCLUDE IN THE BID PRICE THE PAYMENT OF NECESSARY PERMITS. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE ELECTRICAL WORK MEETS THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
7. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SCHEDULING OF WORK.
8. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
9. KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. PROPERLY AND LEGALLY DISPOSE OF MATERIALS.
10. JOB SITE SAFETY SHALL BE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
11. DRAWINGS SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS AND THE MECHANICAL DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS. LOCATIONS OF ELECTRICAL EQUIPMENT AND CONDUIT ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN FIELD.
12. CONFIRM EQUIPMENT LOCATIONS AND PLUG TYPES PRIOR TO RECEPTACLE INSTALLATION. PROVIDE RECEPTACLE TYPES TO MATCH PLUG TYPES AND NEMA CONFIGURATION.
13. COORDINATE WORK WITH OTHER TRADES. ARCHITECTURAL, STRUCTURAL, MECHANICAL, CIVIL, AND OTHER DRAWINGS AND SPECIFICATIONS SHALL BE CONSULTED AND COORDINATED WITH PRIOR TO ROUGH-IN.
14. EXISTING ELECTRICAL INSTALLATION:
    a. EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. FOR ELECTRICAL MATERIAL AND EQUIPMENT TO BE REMOVED, REFER TO ELECTRICAL DEMOLITION NOTES.
    b. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONNECTED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH NEW WORK.
    c. DO NOT DISCONTINUE ANY ELECTRICAL SERVICE WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE USER AGENCY. THE ELECTRICAL SERVICE OUTAGES SHALL BE KEPT TO A MINIMUM. WRITTEN APPROVAL FOR DISCONNECTING THE SERVICES MAY BE OBTAINED ONLY BY APPLYING IN ADVANCE OF TEN WORKING DAYS. OUTAGES SHALL BE LIMITED TO WEEKEND OR HOLIDAY PERIODS.
15. WHEN MOUNTING ELECTRICAL WORK IN AREAS SUBJECT TO PEDESTRIAN TRAFFIC, MAINTAIN REQUIRED HEADROOM CLEARANCES.
16. WHEREVER POSSIBLE, OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT, WHETHER FURNISHED UNDER THIS DIVISION, ANOTHER DIVISION, OR BY OTHERS, SHALL BE MADE UNDER THIS DIVISION. FINAL CONNECTIONS TO EQUIPMENT SHALL CONSIST OF SAME SIZE PHASE CONDUCTORS, NEUTRAL CONDUCTORS (AS APPLICABLE), GROUND CONDUCTORS, CONTROL CONDUCTORS (AS APPLICABLE), AND CONDUIT SIZES AS INDICATED ELSEWHERE.
17. PRIOR TO PURCHASE AND INSTALLATION OF ANY MOTOR CONTROL EQUIPMENT (STARTERS, ETC.), VERIFY ACTUAL MOTOR ELECTRICAL CHARACTERISTICS. STARTER OVERLOADS SHALL BE SIZED IN ACCORDANCE WITH ACTUAL MOTOR FULL LOAD AMPERES.
18. WHERE MULTIPLE WALL SWITCHES ARE SHOWN ADJACENT TO ONE ANOTHER, GROUP TOGETHER UNDER MULTIGANG PLATE. WHERE DIMMER SWITCHES ARE USED, SELECTION OF CAPACITY SHALL BE BASED ON LOAD SERVED AND ANY DERATING REQUIRED DUE TO GANGING OF SWITCHES.
19. PROVIDE TYPED CIRCUIT DIRECTORIES FOR NEW AND EXISTING PANELBOARDS TO INDICATE TYPE OF LOAD SERVED AND AREA SERVED (E.G. RECEPTACLES-OFFICE 201).
20. PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR EACH CIRCUIT UTILIZING A NEUTRAL. UNLESS SPECIFICALLY INDICATED OTHERWISE, MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED.
21. CENTER EQUIPMENT OR DEVICES LOCATED ABOVE OPENINGS SUCH AS DOORS, LOUVER, ETC. ABOVE THE OPENING.
22. PAINT PLYWOOD BACKBOARDS (MINIMUM 2 COATS OF FIRE RETARDANT PAINT) TO MATCH WALL FINISH. DO NOT PAINT OVER FIRE LABEL.
23. ELECTRICAL PENETRATIONS IN FIRE-RESISTANCE-RATED CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF INTERNATIONAL BUILDING CODE. PROVIDE LISTED FIRE STOP METHOD FOR PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO MAINTAIN THE APPLICABLE FIRE RATING.
24. FOR EQUIPMENT ENERGIZED FROM TWO SOURCES, PROVIDE PERMANENT WARNING LABEL READING "WARNING! EQUIPMENT ENERGIZED FROM MULTIPLE SOURCES."
25. PROVIDE STRUCTURAL STEEL FRAME SUPPORTS AS REQUIRED FOR DISCONNECT SWITCHES, MOTOR STARTERS, ETC. IF DISCONNECT SWITCHES OR STARTERS ARE LOCATED ON EQUIPMENT HOUSINGS, COORDINATE LOCATIONS WITH EQUIPMENT SUPPLIER TO ENSURE SWITCHES/STARTERS ARE NOT INSTALLED ON EQUIPMENT ACCESS PANELS. MAINTAIN PROPER NATIONAL ELECTRICAL CODE CLEARANCES. IN ADDITION, MAINTAIN PROPER MECHANICAL WORKING CLEARANCES FOR SERVICING OF EQUIPMENT.
26. PROVIDE STRUCTURAL STEEL FRAME SUPPORTS OR PLYWOOD BACKBOARDS TO MOUNT PANELBOARDS ON METAL STUD WALLS/PARTITIONS. ANCHOR STRUCTURAL STEEL FRAME SUPPORTS OR PLYWOOD BACKBOARD TO METAL STUDS. PROVIDE STRUCTURAL STEEL FRAME SUPPORTS AT A MINIMUM OF TOP AND BOTTOM OF PANELBOARD AND SPAN A MINIMUM OF TWO VERTICAL STUDS. DO NOT ANCHOR PANELBOARDS DIRECTLY TO DRYWALL PARTITION.
27. IF APPLICABLE, FURNISH PANELBOARD WITH NUMBER OF POLES INDICATED. EACH SPACE SHALL BE A FULLY PREPARED SPACE (I.E. COMPLETE WITH PROVISIONS AND HARDWARE REQUIRED TO MOUNT A FUTURE CIRCUIT BREAKER, INCLUDING BUS CONNECTIONS, CIRCUIT BREAKER MOUNTING BRACKET, CIRCUIT BREAKER COVER AND COVER KNOCKOUTS, ETC.).
28. VERIFY ELECTRICAL SYSTEM PHASING AND ROTATION WITH UTILITY COMPANY.
29. IF APPLICABLE, PROVIDE TRENCHING AND BACKFILL FOR BURIED ELECTRICAL AND TELECOMMUNICATIONS (TELEPHONE, CABLE TELEVISION) SERVICES, UNLESS NOTED OTHERWISE. COORDINATE UNDERGROUND CIRCUIT INSTALLATION WITH OTHER EXISTING AND PROPOSED UNDERGROUND UTILITIES. ENGAGE THE SERVICES OF A UTILITY LOCATING FIRM PRIOR TO EXCAVATION.
30. ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UL LISTED AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.
31. NEW ELECTRICAL WORK INSTALLED IN FINISHED AREAS SHALL BE INSTALLED CONCEALED WITHIN NEW OR EXISTING WALLS, FLOORS OR CEILINGS. PROVIDE CUTTING AND PATCHING OF SURFACES. SURFACE RACEWAYS SHALL BE PERMITTED IN FINISHED AREAS ONLY WHERE SPECIFICALLY APPROVED IN THE FIELD BY ARCHITECT.
32. THE ENTIRE ELECTRICAL INSTALLATION, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, UNLESS A LONGER WARRANTY PERIOD IS REQUIRED ELSEWHERE IN CONTRACT DOCUMENTS.
33. MINIMIZE THE USE OF JUNCTION BOXES ABOVE INACCESSIBLE (I.E. GYPSUM) CEILINGS. WHERE JUNCTION BOXES ARE UNAVOIDABLE ABOVE SUCH CEILINGS, GROUP THEM WITH OTHER BOXES, SWITCHES, VALVES, ETC. THAT REQUIRE ACCESS, AND PROVIDE AN ACCESS HATCH IN CEILING AS APPROVED BY ARCHITECT.
34. CONDUIT, FITTINGS, AND JUNCTION BOXES SHALL BE SUITABLE FOR THE AREA CLASSIFICATION IN WHICH THEY ARE TO BE INSTALLED.
35. MINIMIZE THE NUMBER AND SIZE OF ROOF PENETRATIONS, GROUPING MULTIPLE CONDUITS IN THE SAME PENETRATION WHEN POSSIBLE. WHEN APPLICABLE, COORDINATE WITH ORIGINAL ROOFING MEMBRANE MANUFACTURER IN ORDER TO MAINTAIN ROOF WARRANTY. SEAL AROUND ROOF PENETRATIONS WITH A LISTED SEALING COMPOUND. PROVIDE RUBBER BOOT, FLASHING, CAULKING, AND OTHER ITEMS AS REQUIRED FOR A WEATHERTIGHT INSTALLATION. PRIOR TO PENETRATING ROOF, USE NON-DESTRUCTIVE MEANS TO LOCATE REINFORCING STEEL OR TENDONS WITHIN THE PROPOSED AREA OF PENETRATION, IF APPLICABLE. WHEN PENETRATING ROOF, DO NOT CUT, BURN OR DAMAGE EXISTING REINFORCING STEEL OR TENDONS UNLESS APPROVED BY A STRUCTURAL ENGINEER. CONDUIT ROOF PENETRATIONS SHALL BE INCLUDED IN CONTRACTOR'S GUARANTEE OF WORK.
36. UNLESS INDICATED OTHERWISE 15A AND 20A SINGLE-PHASE CIRCUITS SHALL CONSIST OF 2#12, 1#12 G, 3/4" C.
37. REMOVE AND REINSTALL CEILING PANELS AS REQUIRED FOR ELECTRICAL WORK. REPLACE, IN-KIND, ANY CEILING PANELS DAMAGED DURING THE COURSE OF WORK.

DEMOLITION NOTES - DIVISION 26

1. DISCONNECT AND REMOVE ITEMS SHOWN DASHED ON ELECTRICAL DEMOLITION DRAWINGS. IN ADDITION TO SPECIFIC ELECTRICAL DEMOLITION INDICATED ON ELECTRICAL DEMOLITION DRAWINGS, DISCONNECT AND REMOVE WIRING DEVICES, FIRE ALARM DEVICES, LIGHTING FIXTURES, AND COMMUNICATION OUTLETS ON WALLS, CEILINGS, MILLWORK, ETC. BEING REMOVED. WALLS TO BE REMOVED BY OTHERS ARE SHOWN DASHED ON ELECTRICAL DEMOLITION PLANS. NOTE THAT NOT ALL ELECTRICAL ITEMS TO BE REMOVED ARE INDICATED ON ELECTRICAL DEMOLITION DRAWINGS.
2. COORDINATE DEMOLITION WITH NEW WORK, AND REUSE CIRCUITS AND DEVICES AS PERMITTED ELSEWHERE IN CONTRACT DOCUMENTS.
3. FOR WIRING NOT BEING REUSED IN NEW WORK, REMOVE BACK TO SOURCE.
4. FOR CIRCUIT BREAKERS NOT BEING REUSED, TURN BREAKER OFF AND LABEL AS "SPARE".
5. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND ASSOCIATED WIRING BREAKS BRANCH CIRCUITS TO REMAIN, THE CIRCUITS' CONTINUITY SHALL BE RESTORED TO PROVIDE POWER SUPPLY TO REMAINING EQUIPMENT.
6. CONDUIT AND WIRING FEEDING ELECTRICAL EQUIPMENT OUTSIDE LIMITS OF CONSTRUCTION THAT IS ROUTED THROUGH AREA OF WORK SHALL REMAIN.
7. REMOVE EXISTING EXPOSED CONDUIT, OR CONDUIT THAT BECOMES EXPOSED DURING CONSTRUCTION. REMOVE WIRING AND CUT OFF CONDUIT STUBS THROUGH FLOOR FLUSH WITH FLOOR SLAB, FILL WITH CONCRETE, AND MAKE READY TO ACCEPT NEW FLOOR FINISHES WHERE APPLICABLE.
8. CONDUIT WHICH REMAINS CONCEALED WITHIN WALLS OR SLABS SHALL BE ABANDONED IN PLACE AFTER REMOVAL OF WIRING.
9. WHERE EXISTING CONDUIT STUBS THROUGH ROOF ARE NO LONGER REQUIRED, AND OCCUR IN AREAS WHERE EXISTING ROOF IS TO REMAIN, CONDUIT SHALL BE CUT OFF 6" ABOVE AND BELOW ROOF, AND FILLED WITH EXPANDABLE FOAM SEALANT. CAP CONDUIT ABOVE ROOF AND MAKE COMPLETELY WATERTIGHT.
10. WHEREVER EXISTING FLUSH MOUNTED OUTLET BOXES WILL REMAIN EXPOSED. FURNISH AND INSTALL BLANK COVERPLATES.
11. PATCH AND FINISH SURFACES DISTURBED BY DEMOLITION UNDER THIS DIVISION WITH MATERIALS TO MATCH EXISTING SURFACE.

TOTAL ELECTRICAL LOAD: 312.1KVA
TOTAL LIGHTING AND RECEPTACLE LOAD: 47.4 KVA
TOTAL POWER: 312.1 KVA
LARGEST MOTOR H.P.: 1-1/2 HP
ESTIMATED EMERGENCY POWER DEMAND: 5.0 KVA
TYPE AND SIZE OF STAND-BY POWER UNIT(S): 3000VA UPS - SEE TELECOM DRAWINGS.

BRANCH CIRCUIT WIRE SIZING
(120V, 20 AMPERE SINGLE PHASE CIRCUITS) (1)

LENGTH OF RUN	CIRCUIT WIRE SIZE
0' - 60'	#12
60' - 100'	#10
100' - 150'	#8

NOTES

1. CHART IS BASED ON 1920 WATT LOAD, 120 VOLTS WITH 3% VOLTAGE DROP. ANY DEVIATION, INCLUDING DE-RATING, SHALL BE FIELD CALCULATED. TOTAL MAXIMUM VOLTAGE DROP (ON FEEDER AND BRANCH CIRCUIT) SHALL BE LESS THAN 5%. WHERE A DISCREPANCY EXISTS BETWEEN THIS CHART AND WIRE SIZE ON PANEL SCHEDULE, PROVIDE THE LARGER SIZE.

DRAWING LIST - ELECTRICAL

SHEET NUMBER	SHEET NAME
E-100	ELECTRICAL SITE PLAN
E-001	SYMBOLS, NOTES & ABBREVIATIONS
ED-101	FLOOR PLANS - DEMOLITION
E-101	FLOOR PLANS - LIGHTING
E-102	FLOOR PLANS - POWER
E-103	FLOOR PLANS - FIRE ALARM
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL RISER DIAGRAMS
E-602	FIRE ALARM RISER DIAGRAMS AND DETAILS
E-701	EQUIPMENT SCHEDULES
E-702	PANEL SCHEDULES
E-703	PANEL SCHEDULES

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL — Name / Title / Date
DGS APPROVAL — Project Manager / Chief of PM&D / Date

MARK | DATE | BY | DESCR
REVISIONS

DATE 12.09.2022
PROJECT 210066.00
DESIGNED DRW
DRAWN DRW
CHECKED SCH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

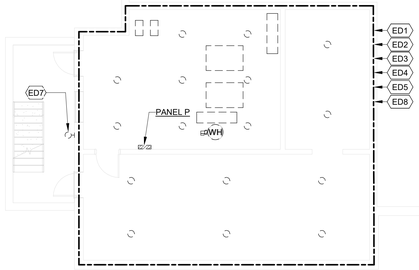
PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

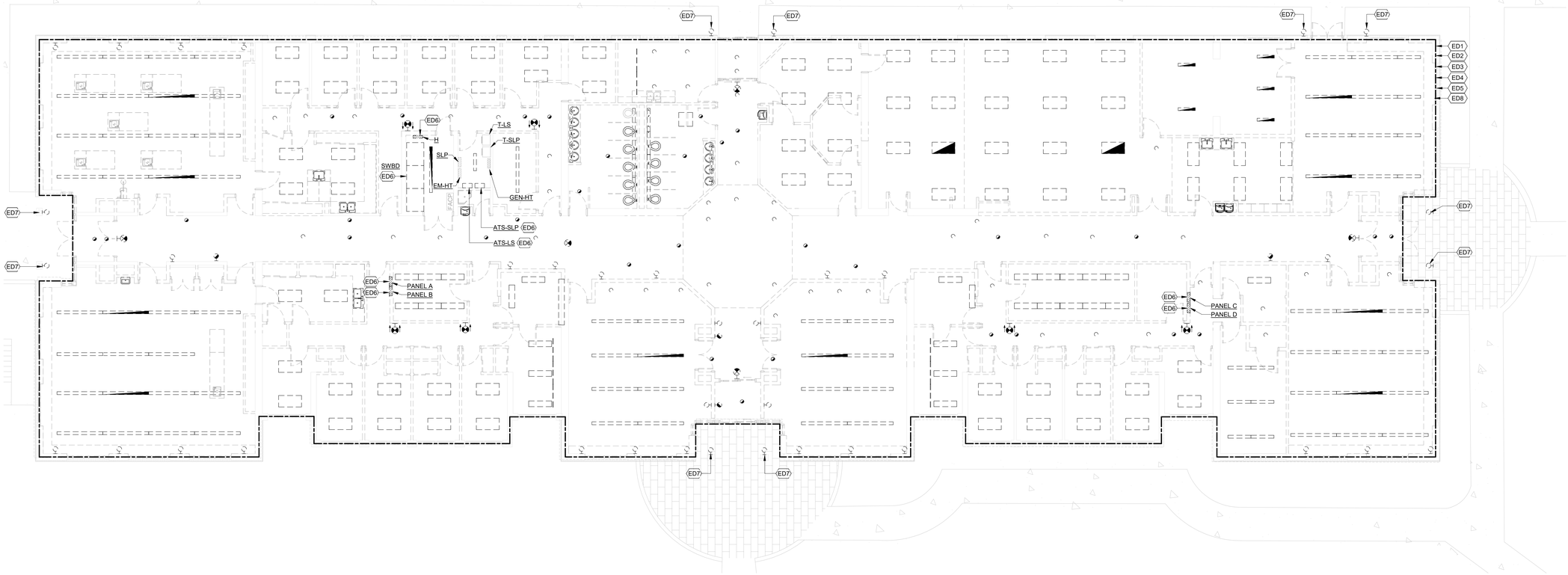
DRAWING: SYMBOLS, NOTES & ABBREVIATIONS

SHEET E-001



1 LOWER LEVEL PLAN - DEMOLITION
1/8" = 1'-0"

SPECIFIC NOTES - ELECTRICAL DEMO	
ED1	DISCONNECT AND REMOVE RECEPTACLES WITHIN AREA INDICATED. DISCONNECT AND REMOVE ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO SOURCE.
ED2	DISCONNECT AND REMOVE LIGHTING FIXTURES AND EXIT SIGNS WITHIN AREA INDICATED. DISCONNECT AND REMOVE ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO SOURCE.
ED3	DISCONNECT AND REMOVE FIRE ALARM NOTIFICATION AND INITATION DEVICES WITHIN AREA INDICATED. DISCONNECT AND REMOVE ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO SOURCE.
ED4	DISCONNECT AND REMOVE TELECOMMUNICATIONS OUTLETS WITHIN AREA INDICATED. DISCONNECT AND REMOVE ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO SOURCE.
ED5	DISCONNECT AND REMOVE LIGHTING CONTROL DEVICES WITHIN AREA INDICATED. DISCONNECT AND REMOVE ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO SOURCE.
ED6	REFER TO DEMOLITION RISER DIAGRAM.
ED7	DISCONNECT AND REMOVE EXTERIOR WALL SCONCE. DISCONNECT AND REMOVE ASSOCIATED WIRING BACK TO SOURCE. FOR LOCATIONS WHERE A LIGHT FIXTURE IS SPECIFIED IN THE SAME LOCATION ON THE NEW WORK PLAN, REUSE EXISTING BOX. FOR LOCATIONS WHERE NO LIGHT FIXTURE IS BEING REPLACED IN THE SAME LOCATION, PROVIDE FLUSH WEATHERPROOF GASKETED STAINLESS STEEL COVERPLATE FOR EXISTING BOX.
ED8	DISCONNECT MECHANICAL AND PLUMBING EQUIPMENT NOTED FOR REMOVAL ON MECHANICAL AND PLUMBING DEMOLITION PLANS. DISCONNECT AND REMOVE ASSOCIATED DISCONNECT SWITCH(ES), STARTER(S), CONDUIT AND WIRING BACK TO SOURCE. DISCONNECT MECHANICAL AND PLUMBING EQUIPMENT NOTED TO BE RELOCATED ON MECHANICAL AND PLUMBING DEMOLITION PLANS. DISCONNECT AND REMOVE ASSOCIATED DISCONNECT SWITCH(ES), STARTER(S), CONDUIT AND WIRING BACK TO SOURCE.



2 FIRST FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of P&E/LD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FLOOR PLANS - DEMOLITION

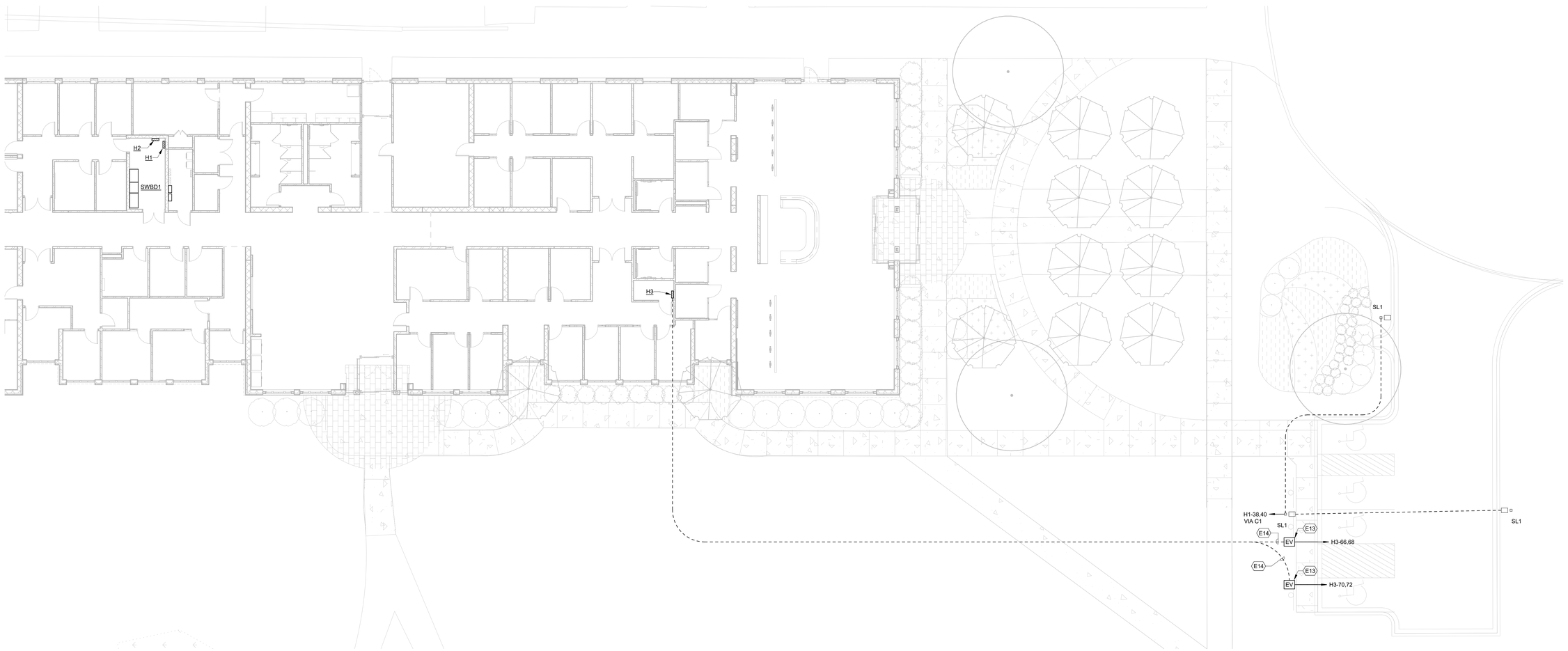
SHEET
ED-101

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/7/2022 10:20:09 AM

DRAWING NOTES:

1. CONNECT EXISTING PATHWAY AREA LIGHTS TO PANEL H1-10,12 VIA CONTACTOR C1.
2. WORK ASSOCIATED WITH PARKING LOT LIGHTING SHALL BE LISTED AS AN ALTERNATE FOR PRICING PURPOSES.

SPECIFIC NOTES - ELECTRICAL NEW	
E13	PROVIDE HANDHOLE FOR EV CHARGING STATION. CIRCUIT WIRING SHALL BE CAPPED AND RETAINED FOR FUTURE USE WITHIN HANDHOLE. SIZE HAND HOLE AS REQUIRED.
E14	PROVIDE POWER AND TELECOMMUNICATION FEEDER FOR EV CHARGING STATION. REFER TO PANEL H3 SCHEDULE FOR POWER CIRCUIT REQUIREMENTS. PROVIDE 1" CONDUIT WITH PULLSTRING FOR FUTURE TELECOMMUNICATION WIRING.



1 ELECTRICAL SITE PLAN
1" = 10'-0"

N

GRAPHIC SCALE - 1" = 10'-0"
0 10 20 30 40

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of P&A/JD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
STEVEN G. REIBLICH
No. 37790
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

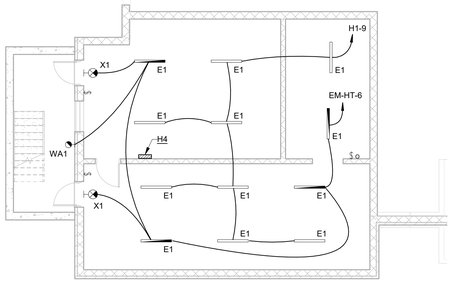
DRAWING
ELECTRICAL SITE PLAN

SHEET
E-100

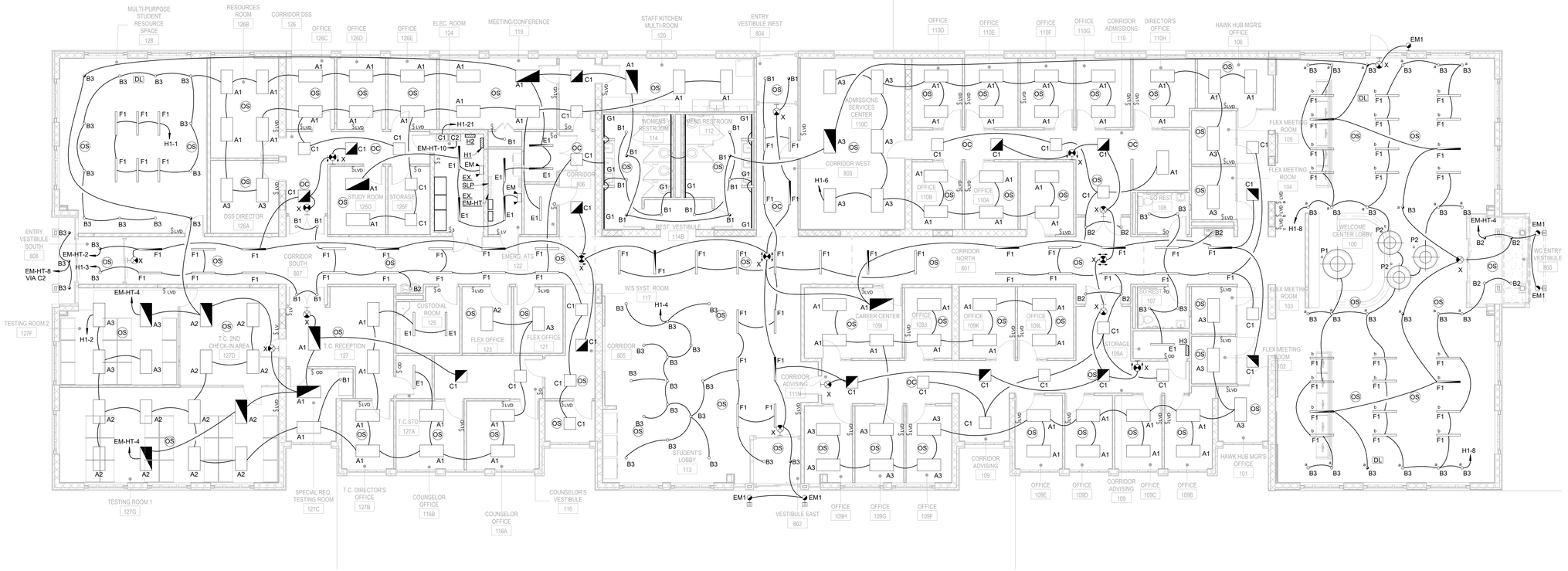
12/8/2022 8:33:29 AM BIM 360://212248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

DRAWING NOTES:

1. LIGHT FIXTURES INDICATED AS PART OF AN EMERGENCY CIRCUIT THAT AREN'T NIGHT LIGHTS OR EXIT SIGNS SHALL BE PROVIDED WITH A UL924 LISTED EMERGENCY LIGHTING TRANSFER RELAY. PROVIDE UNSWITCHED NORMAL POWER TO UL924 RELAY AS A UTILITY POWER SENSING FEED. IN THE ABSENCE OF UTILITY POWER, ALL LIGHTING CONTROLS OPERATING EMERGENCY LIGHTS SHALL BE OVERRIDDEN, AND LIGHT FIXTURES SHALL COME ON TO 100%.
2. EXIT SIGNS SHALL BE UNSWITCHED.
3. LIGHT FIXTURE SCHEDULE IS LOCATED ON SHEETE E-701



1 LOWER LEVEL PLAN - LIGHTING
1/8" = 1'-0"



2 FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&CD Date

MARK	DATE	BY	DESCR

REVISIONS

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER SEAN H. GRIFFITH No. 37790

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FLOOR PLANS - LIGHTING

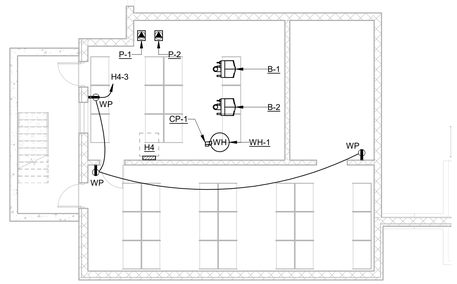
SHEET
E-101

BIM 360://2124A-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/7/2022 10:19:51 AM

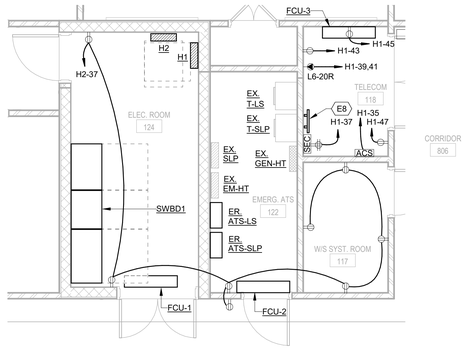
DRAWING NOTES:

1. CARD READER DOOR POWER SUPPLYS INDICATED ON THIS PLAN SHALL BE POWERED TO PANEL SLP, CIRCUIT 2. REFER TO SLP PANEL SCHEDULE FOR CIRCUIT REQUIREMENTS.
2. FOR LOCATIONS WHERE SPLIT YOKE RECEPTACLES ARE SHOW, CONNECT BOTTOM YOKE OF SPLIT YOKE RECEPTACLE TO ROOM OCCUPANCY SENSOR AND POWER PACK. TOP YOKE OF RECEPTACLE SHALL BE UNSWITCHED. PROVIDE INDICATIONS ON EACH RECEPTACLE COVERPLATE AS TO WHICH YOKE IS SWITCHED.

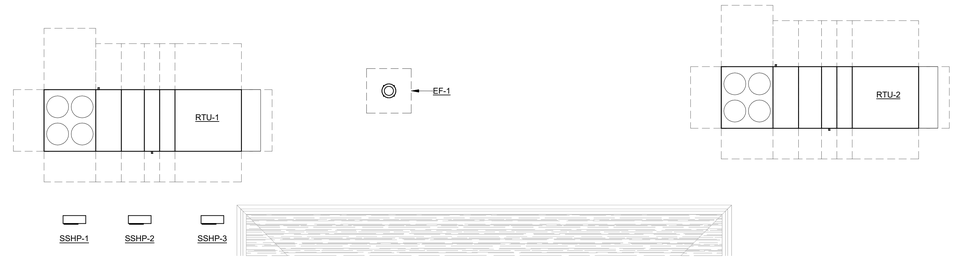
SPECIFIC NOTES - ELECTRICAL NEW	
E1	PROVIDE 120V POWER CONNECTION TO WALL MOUNTED DIGITAL SIGNAGE.
E2	PROVIDE LOCKING WEATHERPROOF COVER CAPABLE OF BEING PADLOCKED FOR OUTDOOR RECEPTACLE.
E3	PROVIDE 120V POWER CONNECTION FOR FLUSH MOUNTED HAND DRYER.
E4	PROVIDE 120V POWER CONNECTION TO 120V FLUSH VALVES AND FAUCETS. CONCEAL ALL ELECTRICAL BOXES AND WIRING WITHIN WALLS AND UNDER SINK.
E8	TELECOMMUNICATION MAIN GROUND BAR. PROVIDE FULL-SIZE GROUNDING ELECTRODE CONDUCTOR TO MAIN BUILDING GROUND BAR, SIZED PER NEC TABLE 250.66. REFER TO TELECOMMUNICATION DRAWINGS FOR MORE DETAILS.
E9	PROVIDE 120V POWER CONNECTION FOR CARD READER DOOR POWER SUPPLY.
E10	PROVIDE ADDITIONAL 1-1/4" CONDUIT WITH PULL STRING FOR AV CABILING WITHIN SLAB TO ADJACENT WALL AND UP TO ACCESSIBLE CEILING.
E11	PROVIDE 120V POWER CONNECTION FOR SLIDING DOOR. COORDINATE FINAL TERMINATION LOCATION WITH DOOR INSTALLER.
E12	PROVIDE 3/4 INCH CONDUIT WITH PULLSTRING BETWEEN DOOR OPERATOR AND PUSH BUTTONS FOR INTERCONNECT WIRING.



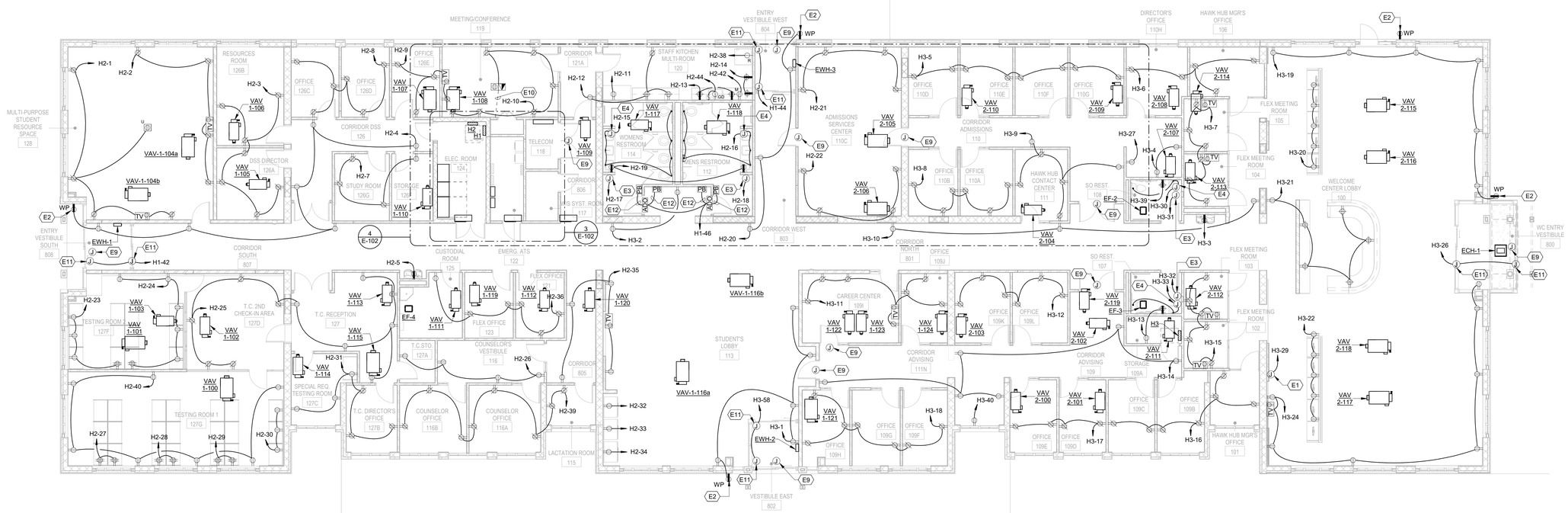
1 LOWER LEVEL PLAN - POWER
1/8" = 1'-0"



3 ENLARGED UTILITY ROOM PLAN - POWER
1/4" = 1'-0"



4 PARTIAL ROOF PLAN - NEW WORK - POWER
1/8" = 1'-0"



2 FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" | 1/16" = 1'-0" | 3/32" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0" | 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date
Title | DGS APPROVAL
Project Manager | Date
Chief of FM&AD | Date

MARK	DATE	BY	DESCR

REVISIONS

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

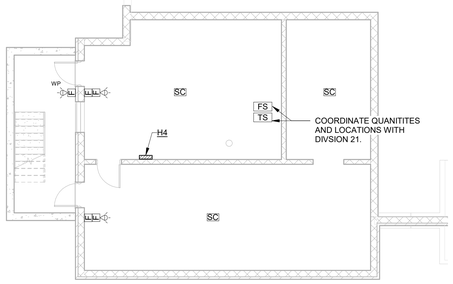
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FLOOR PLANS - POWER

SHEET
E-102

12/7/2022 10:19:56 AM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt



1 LOWER LEVEL PLAN - FIRE ALARM
1/8" = 1'-0"

2 FIRST FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

GRAPHIC SCALE - 1/8" = 1'-0"
0 8 16 24 32

1/32" = 1'-0" 1/16" = 1'-0" 3/32" = 1'-0" 1/8" = 1'-0" 1/4" = 1'-0" 3/8" = 1'-0" 1/2" = 1'-0" 3/4" = 1'-0" 1" = 1'-0" 1 1/2" = 1'-0" 3" = 1'-0" 6" = 1'-0" 12" = 1'-0"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of PM&CD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
STEVEN G. HEIDLAUF
No. 37790
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

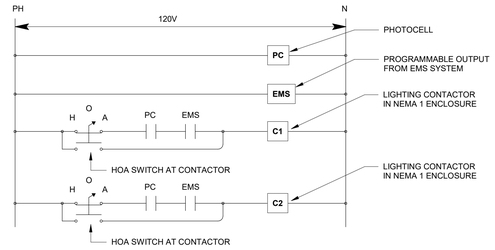
DRAWING
FLOOR PLANS - FIRE ALARM

SHEET
E-103

12/7/2022 10:19:59 AM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt

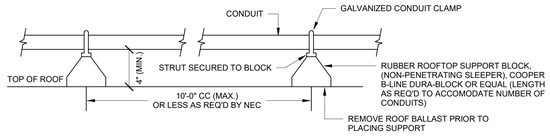
CONTACTOR SCHEDULE - C1							(ELEC. 124)
POLE	VOLTS	AMPS	DESCRIPTION	CIRCUIT	30A CONTACTS NO	30A CONTACTS NC	REMARKS
1	208	30	QUAD LIGHTING	H1-10,12		X	EMS & PHOTOCELL ON/OFF
2	208	30	--	--		--	--
3	208	30	PARKING LOT LIGHTING	H1-38,40		X	EMS & PHOTOCELL ON/OFF
4	208	30	--	--		--	--

CONTACTOR SCHEDULE - C2							(ELEC. 124)
POLE	VOLTS	AMPS	DESCRIPTION	CIRCUIT	30A CONTACTS NO	30A CONTACTS NC	REMARKS
1	120	30	EXTERIOR DOWNLIGHTS	EM-HT-8		X	EMS & PHOTOCELL ON/OFF
2	120	30	SPARE			X	EMS & PHOTOCELL ON/OFF
3	120	30	SPARE			X	EMS & PHOTOCELL ON/OFF
4	120	30	SPARE			X	EMS & PHOTOCELL ON/OFF



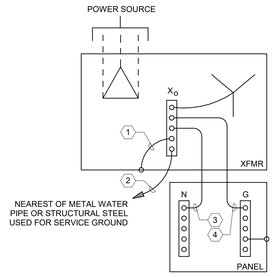
NOTE: CONTROL WIRING SHALL CONSIST OF #12'S IN 3/4" CONDUIT.

5 CONTROL DIAGRAM - EXTERIOR LIGHTING
NO SCALE



NOTE:
IF CONDUIT IS ROUTED HORIZONTALLY ALONG ROOF PER THIS DETAIL CONTRACTOR SHALL COORDINATE WITH ENGINEER TO DERATE CABLE SIZE PRIOR TO INSTALLATION.

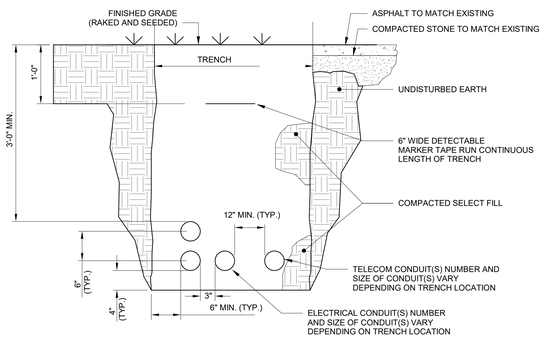
6 ROOFTOP CONDUIT SUPPORT DETAIL
NO SCALE



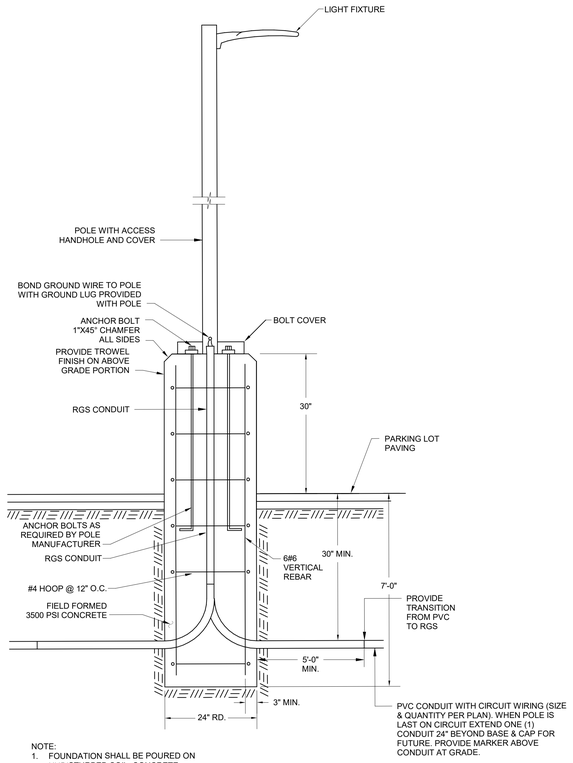
SPECIFIC NOTES

1. SYSTEM BONDING JUMPER SIZED PER NEC TABLE 250.102(C)(1)
2. GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC TABLE 250.66
3. NEUTRAL CONDUCTOR - REFER TO POWER RISER DIAGRAM OR SINGLE-LINE DIAGRAM
4. SUPPLY-SIDE BONDING JUMPER SIZED PER NEC TABLE 250.102(C)(1)

7 TRANSFORMER AND PANEL GROUNDING DETAIL
NO SCALE

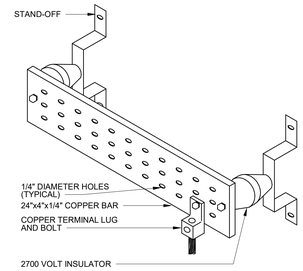


8 TRENCH DETAIL
NO SCALE

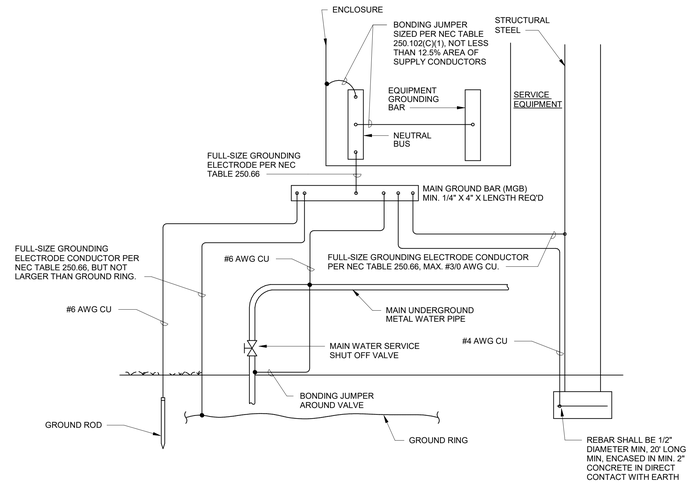


NOTE:
1. FOUNDATION SHALL BE POURED ON UNDISTURBED SOIL. CONCRETE SHALL NOT BE POURED BELOW 40°F ON A FALLING TEMPERATURE

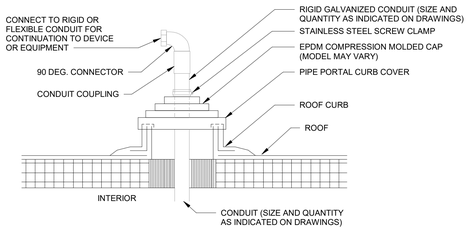
10 LIGHT POLE FOUNDATION DETAIL - PARKING LOT LIGHTING
NO SCALE



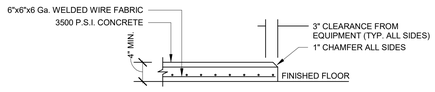
1 GROUND BUS BAR
NO SCALE



2 GROUNDING ELECTRODE SYSTEM WIRING DIAGRAM
NO SCALE



3 CONDUIT ROOF PENETRATION DETAIL
12" = 1'-0"



4 CONCRETE HOUSEKEEPING PAD DETAIL
NO SCALE

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date
Title | DGS APPROVAL
Project Manager | Date
Chief of PM&CD | Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND — STEVEN R. HEDRICK — No. 37790 — PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

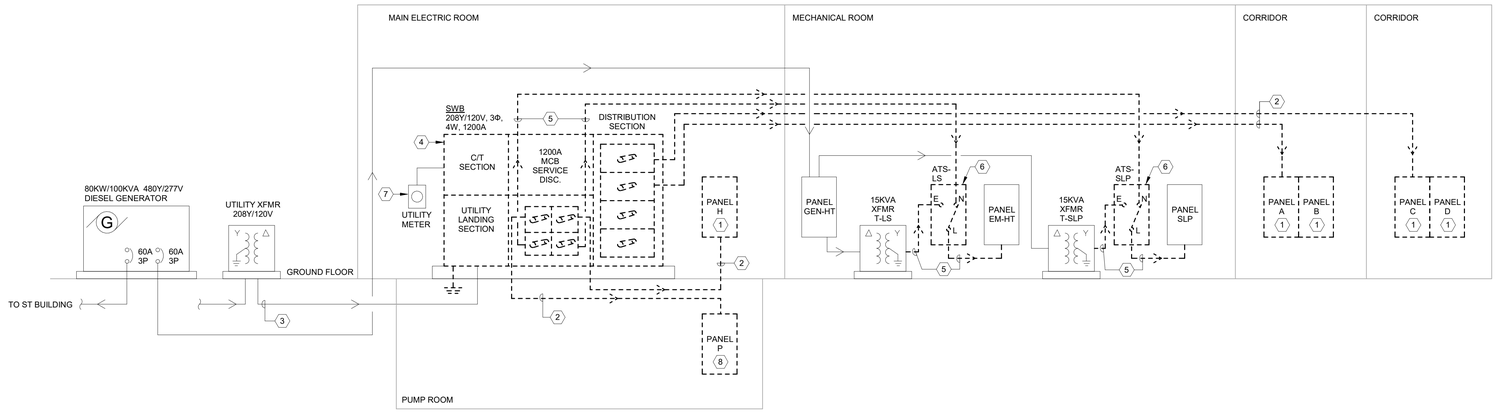
DRAWING
ELECTRICAL DETAILS

SHEET
E-501

12/7/2022 10:20:01 AM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S.MD-Health Tech Bldg - MEP Central(R21).rvt

SPECIFIC NOTES

1. DISCONNECT AND REMOVE PANELBOARD.
2. DISCONNET AND REMOVE PANELBOARD CONDUIT AND WIRING BACK TO SOURCE.
3. DISCONNECT SERVICE SECONDARY CONDUCTORS. RETAIN CONDUIT AND WIRING FOR RECONNECTION TO NEW SWITCHBOARD.
4. DISCONNECT AND REMOVE SWITCHBOARD.
5. DISCONNECT AND REMOVE EXISTING ATS CONDUIT AND WIRING. PROVIDE NEW AS SHOWN ON NEW WORK ELECTRICAL RISER DIAGRAM.
6. DISCONNECT AND RELOCATE ATS EQUIPMENT PER NEW WORK PLAN.
7. DISCONNECT EXISTING UITILITY METER FROM SWITCHBOARD. RECONNECT TO NEW SWITCHBOARD ONCE INSTALLED PER NEW WORK RISER DIAGRAM.
8. DISCONNECT AND REMOVE PANELBOARD. ALL EXISTING LOADS WHICH ARENT BEING DEMOLISHED UNDER THIS PHASE OF WORK SHALL BE RECONNECTED TO PANELBOARD H4 BEING INSTALLED UNDER THIS PROJECT.



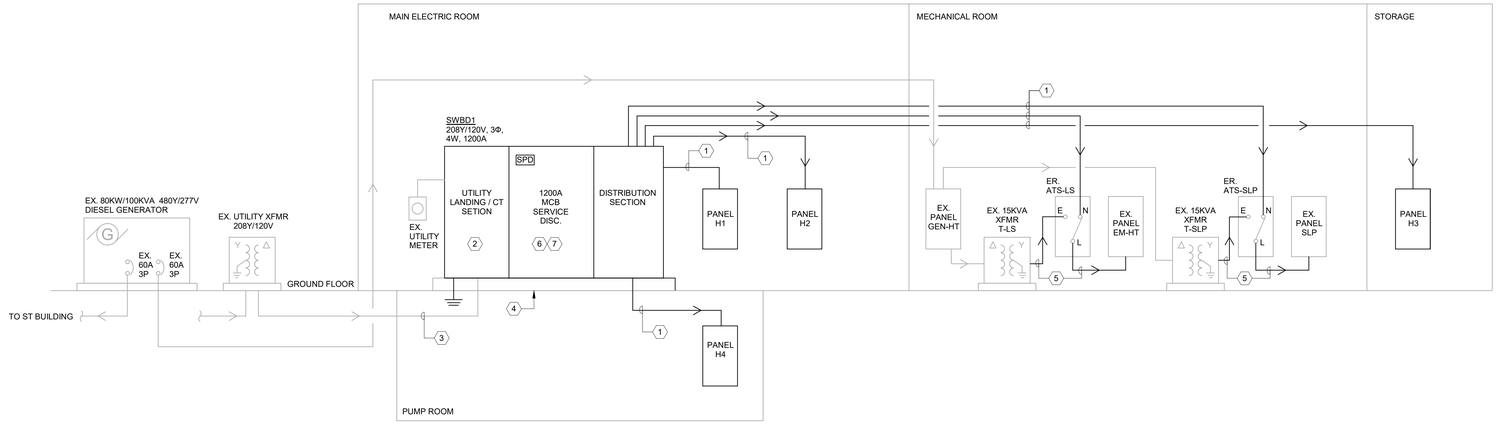
1 ELECTRICAL RISER DIAGRAM - DEMOLITION
NO SCALE

SUBMETERING NOTES:

1. PER 2018 IGCC 701.3.3.1, PROVIDE LOAD-TYPE SUBMETERING FOR THE FOLLOWING LOAD CLASSIFICATIONS: PLUG LOAD, LIGHTING, HVAC, PROCESS, AND BUILDING OPERATIONS/MISCELLANEOUS. SUBMETERING SHALL BE ACCOMPLISHED THROUGH THE USE OF A MICROPROCESSOR-BASED PANELBOARD MONITORING SYSTEM FOR PUBLIC SERVICE BRANCH CIRCUIT PANELBOARDS. REFER TO PANEL SCHEDULES FOR A BREAKDOWN OF LOAD CLASSIFICATION. REFER ALSO TO SPECIFICATION.
2. THE LOAD-TYPE METERING NOTED ABOVE SHALL BE AGGREGATED BY LOAD TYPE, USING THE SUBMETERING MANUFACTURER'S WEB-BASED SOFTWARE. PROVIDE A CONNECTION FROM THE SUBMETERING SOFTWARE TO THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH DIVISION 20 CONTROLS CONTRACTOR AS REQUIRED.
3. ALL METERING DATA NOTED ABOVE SHALL BE CONNECTED TO A SYSTEM CAPABLE OF STORING THE DATA FOR NOT LESS THAN 36 MONTHS.

SPECIFIC NOTES

1. SEE SWBD1 SCHEDULE FOR CIRCUIT REQUIREMENTS.
2. SWITCHBOARD TERMINATIONS SHALL BE AT THE SAME HEIGHT FROM FINISHED FLOOR SUCH THAT EXISTING CABLES CAN TERMINATE APPROPRIATELY. COORDINATE WITH FACTORY FOR BUS-BAR PLACEMENT WITHIN SWITCHBOARD.
3. RETERMINATE SERVICE SECONDARY CONDUCTORS.
4. EXISTING HOUSE-KEEPING PAD. EXTEND AS REQUIRED FOR NEW SWITCHBOARD FOOTPRINT.
5. PROVIDE 4#6, 1#8 G, 1" C
6. PROVIDE POWER METER WITHIN MAIN SWITCHBOARD. POWER METER SHALL MONITOR MAIN SERVICE VOLTAGE, AMP DRAW, KW, KWH, AND LOSS OF PHASE. POWER METER SHALL BE EQUIPPED WITH COMMUNICATIONS OUTPUT SUCH THAT DATA CAN BE UTILIZED BY THE EMS SYSTEM.
7. PROVIDE PHASE FAILURE RELAY ON MAIN SERVICE BREAKER SUCH THAT BUILDING EMS CAN SHUT DOWN ELECTRICAL SERVICE DURING LOSS OF PHASE.



2 ELECTRICAL RISER DIAGRAM - NEW WORK
NO SCALE

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name Date
Title
DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND
STEVEN G. REIDENBACH
No. 37790
PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
ELECTRICAL RISER DIAGRAMS

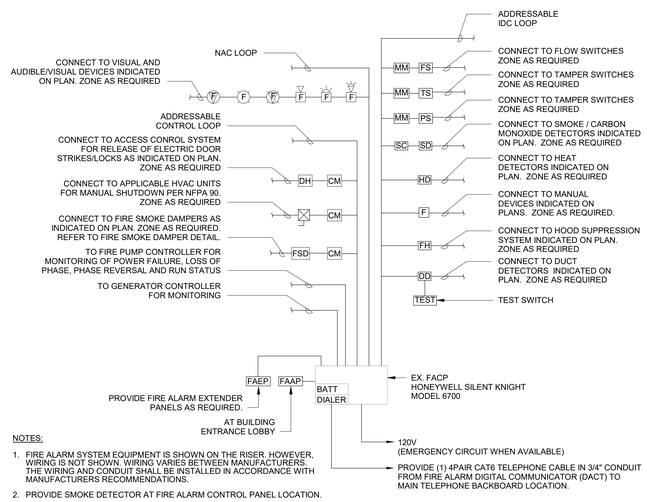
SHEET
E-601

12/7/2022 10:20:01 AM BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

	ANNUNCIATE ALARM AT FACP & FAAP	ANNUNCIATE SUPERVISORY AT FACP & FAAP	ANNUNCIATE TROUBLE AT FACP & FAAP	ACTIVATE NOTIFICATION DEVICES & FAP	ACTUATE PRESSURE DAMPERS - FLOOR OF ALARM, FLOOR ABOVE/BELOW	ACTUATE EXTERIOR DAMPERS - FLOOR OF ALARM, FLOOR ABOVE/BELOW	DIALER SENDS SIGNAL	RELEASE MAGNETIC DOOR HOLD OPENS	UNLOCK ACCESS CONTROLLED DOORS	ACTIVATE BUILDING AIR/SOUND/PUBLIC ADDRESS SYSTEM	ACTIVATE FIRE SHUTTER	LIVE VOICE PAGE	SHUTDOWN ASSOCIATED AIR HANDLING UNIT	ACTUATE STAIR PRESSURIZATION FANS	INITIATE ELEVATOR RECALL SEQUENCE	ACTIVATE ELEVATOR SMOKE TRIP
MANUAL PULLSTATION	X		X	X		X	X	X	X			X				
SMOKE DETECTOR	X		X	X		X	X	X	X			X				
SMOKE DETECTOR AT FIRE SHUTTER	X		X	X		X	X	X	X	X		X				
HEAT DETECTOR	X		X	X		X	X	X	X			X				
DUCT SMOKE DETECTOR		X				X					X					
SPRINKLER FLOW SWITCH	X		X	X	X	X	X	X	X			X				
SPRINKLER VALVE TAMPER SWITCH		X				X										
CARBON MONOXIDE DETECTOR		X				X										
FIRE SERVICE LINE FLOW	X		X	X	X	X	X	X	X			X				
DRY SPRINKLER FLOW/PRESSURE SWITCH	X		X	X		X	X	X	X			X				
DRY SPRINKLER HIGH/LOW		X				X										
DRY SPRINKLER TAMPER		X				X										
SYSTEM TROUBLE			X			X										
VOICE SWITCH									X		X					
GENERATOR RUN		X				X										
GENERATOR FAULT		X				X										
FIRE PUMP RUN		X				X										
FIRE PUMP PHASE REVERSAL		X				X										
FIRE PUMP PHASE FAILURE		X				X										

2 FIRE ALARM MATRIX
NO SCALE



NOTES:

1. FIRE ALARM SYSTEM EQUIPMENT IS SHOWN ON THE RISER. HOWEVER, WIRING IS NOT SHOWN. WIRING VARIES BETWEEN MANUFACTURERS. THE WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SMOKE DETECTOR AT FIRE ALARM CONTROL PANEL LOCATION.
3. COORDINATE FINAL LOCATION OF ANNUNCIATOR WITH LOCAL FIRE MARSHAL.

1 FIRE ALARM RISER
NO SCALE

GENERAL FIRE ALARM SYSTEM NOTES:

1. WIRING, CONDUIT SIZES AND QUANTITIES SHALL BE IN ACCORDANCE WITH THE FIRE DETECTION AND ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS AND THE AHJ REQUIREMENTS.
2. COORDINATE FIRE DETECTION AND ALARM SYSTEM WITH FIRE PROTECTION SYSTEM IN PREPARING ZONES. THE FDAS SHOP DRAWINGS SHALL BE SUBMITTED ONLY AFTER THE APPROVAL OF FIRE PROTECTION SYSTEM BY THE AHJ.
3. SUBMIT THE FIRE DETECTION AND ALARM SYSTEM (FDAS) SHOP DRAWINGS TO THE AHJ. SHOP DRAWINGS SHALL BE APPROVED BY AHJ BEFORE SUBMITTING TO A/E.
4. THE FIRE DETECTION AND ALARM SYSTEM DEVICES AND EQUIPMENT SHOWN ON THE DRAWINGS ARE FOR A MINIMUM REQUIREMENT. PROVIDE ADDITIONAL DEVICES AND/OR EQUIPMENT AS REQUIRED, AND ANY OTHER REQUIREMENTS OF THE AHJ, AT NO ADDITIONAL COST TO THE OWNER.
5. PULL STATIONS SHALL BE LOCATED WITHIN 5'-0" FROM EGRESS DOORS.
6. FIRE DETECTION AND ALARM SYSTEM RISER DIAGRAM IS DIAGRAMMATIC. PROVIDE ACTUAL EQUIPMENT AND CABLING AS REQUIRED BY SYSTEM MANUFACTURER TO ACHIEVE THE FUNCTIONALITY AS INDICATED HEREIN AND SPECIFIED.
7. COORDINATE FINAL LOCATION OF ANNUNCIATOR WITH LOCAL FIRE MARSHALL. AS A BASIS OF DESIGN, ANNUNCIATOR SHALL BE LOCATED IN WELCOME CENTER LOBBY.
8. PROVIDE SMOKE DETECTOR AT FIRE ALARM CONTROL PANEL LOCATION.
9. PROVIDE AUTOMATIC TELEPHONE DIALER. SIGNALS SHALL BE MONITORED BY U.L LISTED CENTRAL STATION VIA DEDICATED TELEPHONE LINES. COORDINATE WITH TELEPHONE COMPANY AND CONTRACTOR FOR WIRING CONNECTIONS. PROVIDE TELEPHONE WIRING AND 120V BRANCH CIRCUIT WIRING AS REQUIRED.
10. PROVIDE WIRING AND RACEWAYS AS REQUIRED FOR FIRE SAFETY FUNCTIONS, INCLUDING , MAGNETIC DOOR RELEASE OF FIRE DOORS, ETC. AS REQUIRED.
11. PROVIDE WIRING AND RACEWAYS TO SPRINKLER SYSTEM DEVICES (FIRE PROTECTION SYSTEM) SUCH AS FLOW SWITCHES, TAMPER SWITCHES, ETC. PER NFPA REQUIREMENTS.
12. FIRE ALARM SYSTEM SHALL OVERRIDE ELECTRIC DOOR LOCKS TO ALLOW LIFE SAFETY EGRESS.
13. INCLUDE IN BID AN ALLOWANCE FOR 20 ADDITIONAL COMBINATION SPEAKER/STROBE UNITS. STROBES SHALL BE RATED AT 110 CANDELA. ALLOWANCE SHALL INCLUDE 100 FEET OF FIRE ALARM MC CABLE FOR EACH SPEAKER STROBE UNIT. ALLOWANCE SHALL ALSO INCLUDE ADDITIONAL CONTROL EQUIPMENT, POWER SUPPLIES AND BATTERY CAPACITY TO SUSTAIN ADDITIONAL APPLIANCES.

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of FM&AD / Date

MARK	DATE	BY	DESCR

REVISIONS

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRE ALARM RISER DIAGRAMS AND DETAILS

MHEC PROJECT CC-08-473

SHEET
E-602

12/7/2022 10:20:02 AM BIM 360://21249-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: College of Southern Maryland
Project Type: Alteration

Construction Site:
8730 Mitchell Road
La Plata, MD 20646

Owner/Agent:

Designer/Contractor:
Century Engineering
10710 Gilroy Road
Hunt Valley, MD 21031
443.589.2400

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Admissions Office (Office)	18672	0.79	14751
		Total Allowed Watts =	14751

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Admissions Office (Office 18672 sq.ft.)				
A1: A1: 2X4 Troffer: Other:	1	67	48	3216
A2: A2: 2X4 Troffer: Other:	1	13	59	767
A3: A3: 2X4 Troffer: Other:	1	24	74	1776
B1: B1: Downlight: Other:	1	17	11	187
B2: B2: Downlight: Other:	1	10	18	180
B3: B3: Downlight: Other:	1	59	23	1357
C1: C1: 2x2 Troffer: Other:	1	33	44	1452
E1: E1: Strip: Other:	1	23	32	736
F1: F1: Decorative Linear: Other:	1	74	36	2664
G1: G1: Linear Wall Graze: Other:	1	8	4	32
P1: P1: Decorative Pendant: Other:	1	1	100	100
P2: P2: Decorative Pendant: Other:	1	3	100	300
			Total Proposed Watts =	12767

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Devin Walters - Electrical Engineer | Devin Walters (Digitally signed by Devin Walters DN: C=US, E=dwalters@centuryeng.com, O=Century Engineering, OU=Century Engineering, CN=Devin Walters Date: 2022.09.27 16:22:57-04'00') | 09.28.2022
Name - Title | Signature | Date

Project Title: College of Southern Maryland — Report date: 09/27/22
Data filename: T:\2021\Facilities\210066.00 College of S. MD-Health Tech Bldg\MEP\04-Elec Dwgs & Calcs\Comcheck\2022.09.27 CSM Comcheck.cck — Page 1 of 8

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: College of Southern Maryland
Project Type: Alteration
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site:
8730 Mitchell Road
La Plata, MD 20646

Owner/Agent:

Designer/Contractor:
Century Engineering
10710 Gilroy Road
Hunt Valley, MD 21031
443.589.2400

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking Lot (Parking area)	2100 ft2	0.06	Yes	126
Quad (Walkway < 10 feet wide)	234 ft of	0.6	Yes	140
Lower Level Entry (Stairway)	165 ft2	0.7	Yes	116
		Total Tradable Watts (a) =		382
		Total Allowed Watts =		382
		Total Allowed Supplemental Watts (b) =		500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking Lot (Parking area 2100 ft2): Tradable Wattage				
SL2: SL2: Parking Pole: Other:	1	3	41	123
Quad (Walkway < 10 feet wide 234 ft of walkway length): Tradable Wattage				
SL1: SL1: Reused LED Site Pole: Other:	1	7	60	420
Lower Level Entry (Stairway 165 ft2): Tradable Wattage				
WA1: WA1: Wall Pack: Other:	1	1	10	10
			Total Tradable Proposed Watts =	553

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Devin Walters - Electrical Engineer | Devin Walters (Digitally signed by Devin Walters) | 09.28.2022
Name - Title | Signature | Date

Project Title: College of Southern Maryland — Report date: 09/27/22
Data filename: T:\2021\Facilities\210066.00 College of S. MD-Health Tech Bldg\MEP\04-Elec Dwgs & Calcs\Comcheck\2022.09.27 CSM Comcheck.cck — Page 3 of 8

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	LAMP TYPE	WATTS	LUMENS	COLOR TEMP. (K)	CRI	MOUNTING	MANUFACTURER	MODEL SERIES
A1	2X4 TROFFER, CURVED SMOOTH DIFUSSER, 0-10V DIMMING DRIVER	120 V	LED	48 VA	6000 lm	3500 K	80	CEILING	LITHONIA	2BLT4
A2	2X4 TROFFER, CURVED SMOOTH DIFUSSER, 0-10V DIMMING DRIVER	120 V	LED	59 VA	7200 lm	3500 K	80	CEILING	LITHONIA	2BLT4
A3	2X4 TROFFER, CURVED SMOOTH DIFUSSER, 0-10V DIMMING DRIVER	120 V	LED	74 VA	8500 lm	3500 K	80	CEILING	LITHONIA	2BLT4
B1	6" ROUND DOWNLIGHT, 0-10V DIMMING DRIVER, SEMI-SPECULAR DIFFUSER, ARCHITECT SHALL SELECT TRIM RING FINISH	120 V	LED	11 VA	1000 lm	3500 K	80	CEILING	LITHONIA	LDN6
B2	6" ROUND DOWNLIGHT, 0-10V DIMMING DRIVER, SEMI-SPECULAR DIFFUSER, ARCHITECT SHALL SELECT TRIM RING FINISH	120 V	LED	18 VA	1500 lm	3500 K	80	CEILING	LITHONIA	LDN6
B3	6" ROUND DOWNLIGHT, 0-10V DIMMING DRIVER, SEMI-SPECULAR DIFFUSER, ARCHITECT SHALL SELECT TRIM RING FINISH	120 V	LED	23 VA	2000 lm	3500 K	80	CEILING	LITHONIA	LDN6
C1	2X2 TROFFER, CURVED SMOOTH DIFUSSER, 0-10V DIMMING DRIVER	120 V	LED	44 VA	4800 lm	3500 K	80	CEILING	LITHONIA	2BLT2
E1	4' ACRYLIC LENS WRAP STRIP FIXTURE, 0-10V DIMMING DRIVER, HANGAR CHAIN	120 V	LED	32 VA	5000 lm	3500 K	80	SUSPENDED	LITHONIA	CLX
EM	DUAL HEAD LED EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACKUP, AIMABLE OPTICS, WHITE HOUSE	120 V	LED	10 VA	0 lm	0 K	--	WALL	LITHONIA	ELM6L
EM1	EMERGENCY WALL PACK, NORMALLY OFF, FIELD CONFIGURABLE THROW, ARCHITECT SHALL SELECT FINISH	120 V	LED	9 VA	635 lm	3500 K	80	WALL	LITHONIA	AFF
F1	4' DECORATIVE LINEAR, DRYWALL RECESSED, 0-10V DIMMING DRIVER	120 V	LED	36 VA	5100 lm	3500 K	80	CEILING	METALUMEN	RM4D
G1	DECORATIVE COVE, DRYWALL RECESSED, 0-10V DIMMING DRIVER, ARCHITECT SHALL SELECT FINISH, L1 LIGHT LEVEL, LUMENS AND WATTAGE IS PER LINEAR FOOT	120 V	LED	4 VA	320 lm	3500 K	80	CEILING	METALUMEN	RML
P1	DECORATIVE PENDANT	120 V	LED	100 VA	0 lm	3500 K	80	SUSPENDED	TBD	TBD
P2	DECORATIVE PENDANT	120 V	LED	100 VA	0 lm	3500 K	80	SUSPENDED	TBD	TBD
SL1	AREA LIGHT POLE, P1 PERFORMANCE PACKAGE, TYPE III BACKLIGHT CONTROL DISTRIBUTION, PROVIDE 10' LIGHT POLE TO MATCH EXISTING POLES ON SITE, MATCH FINISH TO EXISTING POLES ON CAMPUS, COORDINATE FINAL CCT VALUE WITH EXISTING POLE LIGHTS ON CAMPUS.	208 V	LED	33 VA	3344 lm	4000 K	80	POLE	LITHONIA	DSX0
WA1	WEDGE STYLE WALL PACK, VISUAL COMFORT WIDE THROW, P1 PERFORMANCE PACKAGE, NO UPLIGHT, INTEGRAL PHOTOCELL, ARCHITECT SHALL SELECT FINISH	120 V	LED	10 VA	1200 lm	3500 K	80	WALL	LITHONIA	WDGE1
X	EDGE LIT EXIT SIGN, AC ONLY, ARCHITECT TO SELECT TRIM FINISH, MIRRORED BACKGROUND, LETTER COLOR PER AHJ, FIELD COORDINATE MOUNTING REQUIREMENTS, FACE QUANTITIES, AND CHEVRON DIRECTIONS	120 V	LED	5 VA	0 lm	0 K	--	VERIFY IN FIELD	LITHONIA	EDG/EDGR
X1	THERMOPLASTIC EXIT SIGN, AC ONLY, ARCHITECT TO SELECT HOUSING FINIS, LETTER COLOR PER AHJ, FIELD COORDINATE MOUNTING REQUIREMENTS, FACE QUANTITIES, AND CHEVRON DIRECTIONS	120 V	LED	5 VA	0 lm	0 K	--	VERIFY IN FIELD	LITHONIA	LHQM

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ID TAG	VOLTS	PH	MCA	MOCP	SS POLES	SS RATED AMPS	FUSE AMPS	FUSE TYPE	PANEL	CIRCUIT	REMARKS
B-1	120 V	1	8 A	20 A	1	MOTOR RATED TOGGLE	--	--	H4	7	
B-2	120 V	1	8 A	20 A	1	MOTOR RATED TOGGLE	--	--	H4	9	
CP-1	115 V	1	2 A	15 A	1	MOTOR RATED TOGGLE	--	--	H4	1	
ECH-1	208 V	1	9 A	15 A	2	INTEGRAL	--	--	H3	35,37	
EF-1	120 V	1	2 A	15 A	1	MOTOR RATED TOGGLE	--	--	H1	19	
EF-2	120 V	1	2 A	15 A	1	MOTOR RATED TOGGLE	--	--	H3	38	
EF-3	120 V	1	2 A	15 A	1	MOTOR RATED TOGGLE	--	--	H3	38	
EF-4	120 V	1	2 A	15 A	1	MOTOR RATED TOGGLE	--	--	H1	49	
EWH-1	208 V	1	9 A	15 A	2	INTEGRAL	--	--	H1	14,16	
EWH-2	208 V	1	9 A	15 A	2	INTEGRAL	--	--	H3	34,36	
EWH-3	208 V	1	9 A	15 A	2	INTEGRAL	--	--	H1	11,13	
FCU-1	208 V	1	1 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	15,17	OUTDOOR UNIT FEEDS INDOOR UNIT
FCU-2	208 V	1	1 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	18,20	OUTDOOR UNIT FEEDS INDOOR UNIT
FCU-3	208 V	1	1 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	51,53	OUTDOOR UNIT FEEDS INDOOR UNIT
P-1	208 V	3	8 A	15 A	3	30	NF	--	H4	32,34,36	
P-2	208 V	3	8 A	15 A	3	30	NF	--	H4	38,40,42	
RTU-1	208 V	3	223 A	250 A	3	400	250	RK1	SWBD1	19,21,23	NEMA 3R DISCONNECT
RTU-2	208 V	3	215 A	250 A	3	400	250	RK1	SWBD1	20,22,24	NEMA 3R DISCONNECT
SSHP-1	208 V	1	17 A	20 A	2	30	NF	--	H1	15,17	NEMA 3R DISCONNECT
SSHP-2	208 V	1	17 A	20 A	2	30	NF	--	H1	18,20	NEMA 3R DISCONNECT
SSHP-3	208 V	1	17 A	20 A	2	30	NF	--	H1	51,53	NEMA 3R DISCONNECT
VAV 1-100	208 V	1	11 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	22,24	
VAV 1-101	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	26,28	
VAV 1-102	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	26,28	
VAV 1-103	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	26,28	
VAV 1-104a	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	27,29	
VAV 1-104b	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	27,29	
VAV 1-105	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	26,28	
VAV 1-106	208 V	1	3 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	26,28	
VAV 1-107	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	30,32	
VAV 1-108	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	30,32	
VAV 1-109	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	30,32	
VAV 1-110	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	30,32	
VAV 1-111	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	31,33	
VAV 1-112	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	31,33	
VAV 1-113	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	31,33	
VAV 1-114	208 V	1	3 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	31,33	
VAV 1-115	208 V	1	11 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	23,25	
VAV 1-116a	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	48,50	
VAV 1-116b	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	48,50	
VAV 1-117	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	34,36	
VAV 1-118	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	34,36	
VAV 1-119	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	31,33	
VAV 1-120	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H1	34,36	
VAV 1-121	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	45,47	
VAV 1-122	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	42,44	
VAV 1-123	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	42,44	
VAV 1-124	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	45,47	
VAV 2-100	208 V	1	5 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	46,48	
VAV 2-101	208 V	1	3 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	46,48	
VAV 2-102	208 V	1	3 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	46,48	
VAV 2-103	208 V	1	3 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	45,47	
VAV 2-104	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	49,51	
VAV 2-105	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	49,51	
VAV 2-106	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	49,51	
VAV 2-107	208 V	1	2 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	50,52	
VAV 2-108	208 V	1	11 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	41,43	
VAV 2-109	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	49,51	
VAV 2-110	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	49,51	
VAV 2-111	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	54,56	
VAV 2-112	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	53,55	
VAV 2-113	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	50,52	
VAV 2-114	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	50,52	
VAV 2-115	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	53,55	
VAV 2-116	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	53,55	
VAV 2-117	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	57,59	
VAV 2-118	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	57,59	
VAV 2-119	208 V	1	0 A	15 A	2	MOTOR RATED TOGGLE	--	--	H3	54,56	
WH-1	208 V	3	62 A	70 A	3	100	--	--	H4	25,27,29	

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

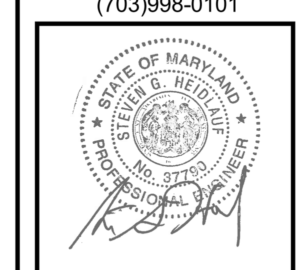
USING AGENCY APPROVAL — Name — Date — Title
DGS APPROVAL — Project Manager — Date — Chief of PMM&D — Date

REVISIONS: MARK | DATE | BY | DESCR

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 37790, expiration date 08/06/2023.

DATE 12.09.2022
PROJECT 210066.00
DESIGNED DRW
DRAWN DRW
CHECKED SGH

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101



PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT: COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING: EQUIPMENT SCHEDULES

SHEET E-701

Branch Panel: H1

Location: ELEC. ROOM 124
Supply From: SWBD1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 35K
BUS OCP Type: MLO
BUS Rating: 225 A
MCB Rating: NONE

Panel Notes: Provide microprocessor-based panelboard monitoring system for metering each breaker. Refer to Submetering Notes on Power Riser Diagram for more information.

CKT	Circuit Description	Notes	Load	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Load	Notes	Circuit Description	CKT
1	INTERIOR LIGHTING		L	20 A	1	2#12, 1#12 G, 3/4"C	1.6 kVA			1.4 kVA			2#12, 1#12 G, 3/4"C	1	20 A	L		INTERIOR LIGHTING	2
3	INTERIOR LIGHTING		L	20 A	1	2#12, 1#12 G, 3/4"C		1.0 kVA			0.9 kVA		2#12, 1#12 G, 3/4"C	1	20 A	L		INTERIOR LIGHTING	4
5	INTERIOR LIGHTING		L	20 A	1	2#12, 1#12 G, 3/4"C			0.9 kVA			1.4 kVA	2#12, 1#12 G, 3/4"C	1	20 A	L		INTERIOR LIGHTING	6
7	INTERIOR LIGHTING		L	20 A	1	2#12, 1#12 G, 3/4"C	1.5 kVA			1.6 kVA			2#12, 1#12 G, 3/4"C	1	20 A	L		INTERIOR LIGHTING	8
9	INTERIOR LIGHTING		L	20 A	1	2#12, 1#12 G, 3/4"C		0.3 kVA			0.1 kVA		2#10, 1#10 G, 1"C	2	20 A	L		SITE POLES	10
11	EWH-3		H	15 A	2	2#12, 1#12 G, 3/4"C			0.8 kVA			0.1 kVA	--	--	--	--	--	12
13	--	--	--	--	--	--	0.8 kVA			0.8 kVA			2#12, 1#12 G, 3/4"C	2	15 A	H		EWH-1	14
15	SSHP-1 / FCU-1		H	20 A	2	2#10, 1#10 G, 3/4"C		1.8 kVA			0.8 kVA		--	--	--	--	--	--	16
17	--	--	--	--	--	--			1.8 kVA			1.8 kVA	2#10, 1#10 G, 3/4"C	2	20 A	H		SSHP-2 / FCU-2	18
19	EF-1		H	15 A	1	2#12, 1#12 G, 3/4"C	0.2 kVA			1.8 kVA			--	--	--	--	--	--	20
21	CONTACTOR C1		B	20 A	1	2#12, 1#12 G, 3/4"C		0.1 kVA			1.0 kVA		2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-100	22
23	VAV1-115		H	15 A	2	2#12, 1#12 G, 3/4"C			1.0 kVA			1.0 kVA	--	--	--	--	--	24
25	--	--	--	--	--	--	1.0 kVA			1.2 kVA			2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-101,102,103, 105, 106	26
27	VAV1-104a,104b		H	15 A	2	2#12, 1#12 G, 3/4"C		0.9 kVA			1.2 kVA		--	--	--	--	--	--	28
29	--	--	--	--	--	--			0.9 kVA			1.2 kVA	2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-107,108,109,110	30
31	VAV1-111,112,113,114,119		H	15 A	2	2#12, 1#12 G, 3/4"C	0.9 kVA			1.2 kVA			--	--	--	--	--	--	32
33	--	--	--	--	--	--		0.9 kVA			1.0 kVA		2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-117,118,120	34
35	ACCESS CONTROL PANEL		B	20 A	1	2#12, 1#12 G, 3/4"C			0.6 kVA			1.0 kVA	--	--	--	--	--	--	36
37	SECURITY CONTROL PANEL		B	20 A	1	2#12, 1#12 G, 3/4"C	0.4 kVA			0.0 kVA			2#10, 1#10 G, 1"C	2	20 A	L		PARKING LOT LIGHTS	38
39	L6-20R (3KVA UPS)		P	20 A	2	2#12, 1#12 G, 3/4"C		2.1 kVA			0.0 kVA		--	--	--	--	--	--	40
41	--	--	--	--	--	--			2.1 kVA			1.0 kVA	2#12, 1#12 G, 3/4"C	1	20 A	B		SOUTH SLIDING DOORS	42
43	RECEP. DEDIC. TELECOM.		P	20 A	1	2#12, 1#12 G, 3/4"C	0.2 kVA			1.0 kVA			2#12, 1#12 G, 3/4"C	1	20 A	B		WEST SLIDING DOORS	44
45	RECEP. DEDIC. TELECOM.		P	20 A	1	2#12, 1#12 G, 3/4"C		0.2 kVA			0.6 kVA		2#12, 1#12 G, 3/4"C	1	20 A	B		RR DOOR OPERATORS	46
47	RECEP. DEDIC. TELECOM.		P	20 A	1	2#12, 1#12 G, 3/4"C			0.2 kVA			0.9 kVA	2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-116a,116b	48
49	EF-4		H	20 A	1	2#12, 1#12 G, 3/4"C	0.2 kVA			0.9 kVA			--	--	--	--	--	--	50
51	SSHP-3 / FCU-3		H	20 A	2	2#10, 1#10 G, 3/4"C		1.8 kVA			0.0 kVA			1	20 A	--		SPARE	52
53	--	--	--	--	--	--			1.8 kVA			0.0 kVA		1	20 A	--		SPARE	54
55	SPARE		--	20 A	1		0.0 kVA			0.0 kVA				1	20 A	--		SPARE	56
57	SPARE		--	20 A	1			0.0 kVA			0.0 kVA			1	20 A	--		SPARE	58
59	SPARE		--	20 A	1				0.0 kVA			0.0 kVA		1	20 A	--		SPARE	60
						Total Load:	16.7 kVA		14.6 kVA		18.6 kVA								
						Total Amps:	141 A		122 A		157 A								

Metering Load Type Legend:
L - Lighting
H - HVAC
P - Plugload
B - Building Operations
PR - Process Loads

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
HVAC	27180 VA	100.00%	27180 VA		
Lighting - General	10884 VA	125.00%	13605 VA	**Total Conn. Load:**	49856 VA
Motor	3432 VA	100.00%	3432 VA	**Total Est. Demand:**	52577 VA
Power - General	7460 VA	100.00%	7460 VA	**Total Conn. Current:**	138 A
Receptacle	900 VA	100.00%	900 VA	**Total Est. Demand Current:**	146 A

Notes:

Branch Panel: H2

Location: ELEC. ROOM 124
Supply From: SWBD1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 35K
BUS OCP Type: MLO
BUS Rating: 225 A
MCB Rating: NONE

Panel Notes: Provide microprocessor-based panelboard monitoring system for metering each breaker. Refer to Submetering Notes on Power Riser Diagram for more information.

CKT	Circuit Description	Notes	Load	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Load	Notes	Circuit Description	CKT
1	RECEP. MP RM. 128		P	20 A	1	2#12, 1#12 G, 3/4"C	1.1 kVA			0.9 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. MP RM. 128	2
3	RECEP. RM 126B, 126A		P	20 A	1	2#12, 1#12 G, 3/4"C		1.3 kVA			1.3 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CORR. 126, 807	4
5	DRINKING FOUNTAIN		B	20 A	1	2#12, 1#12 G, 3/4"C			0.2 kVA			0.0 kVA		1	20 A	--		SPARE	6
7	RECEP. RM 126G, 126F		P	20 A	1	2#12, 1#12 G, 3/4"C	0.7 kVA			1.1 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. RM 126C, 126D	8
9	RECEP. RM 126E		P	20 A	1	2#12, 1#12 G, 3/4"C		0.9 kVA			1.3 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CONF. 119	10
11	STAFF RM COPIER		B	20 A	1	2#12, 1#12 G, 3/4"C			0.2 kVA			0.7 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. STAFF RM	12
13	RECEP. STAFF RM COUNTER		P	20 A	1	2#12, 1#12 G, 3/4"C	0.4 kVA			0.4 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. STAFF RM COUNTER	14
15	RR FLUSH VALVES		B	20 A	1	2#12, 1#12 G, 3/4"C		0.1 kVA			0.1 kVA		2#12, 1#12 G, 3/4"C	1	20 A	B		RR FLUSH VALVES	16
17	HAND DRYER		B	20 A	1	2#12, 1#12 G, 3/4"C			1.2 kVA			1.2 kVA	2#12, 1#12 G, 3/4"C	1	20 A	B		HAND DRYER	18
19	RECEP. RESTROOMS		P	20 A	1	2#12, 1#12 G, 3/4"C	0.4 kVA			0.7 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CORR. 803	20
21	RECEP. CALL CENTER 110C		P	20 A	1	2#12, 1#12 G, 3/4"C		0.7 kVA			0.7 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CALL CENTER 110C	22
23	RECEP. TESTING 127F		P	20 A	1	2#12, 1#12 G, 3/4"C			0.9 kVA			1.3 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. TESTING 127F	24
25	RECEP. CHECK IN 127		P	20 A	1	2#12, 1#12 G, 3/4"C	2.0 kVA			0.7 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CORR. 116	26
27	RECEP. TESTING RM 127G		P	20 A	1	2#12, 1#12 G, 3/4"C		0.7 kVA			0.7 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. TESTING RM 127G	28
29	RECEP. TESTING RM 127G		P	20 A	1	2#12, 1#12 G, 3/4"C			0.7 kVA			0.5 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. TESTING RM 127G	30
31	RECEP. RM 127B, C		P	20 A	1	2#12, 1#12 G, 3/4"C	1.1 kVA			1.2 kVA			2#10, 1#10 G, 3/4"C	1	20 A	B	(1)	VENDING MACHINE	32
33	VENDING MACHINE	(1)	B	20 A	1	2#10, 1#10 G, 3/4"C		1.2 kVA			1.2 kVA		2#10, 1#10 G, 3/4"C	1	20 A	B	(1)	VENDING MACHINE	34
35	RECEP. LOBBY 113, CORR. 805		P	20 A	1	2#12, 1#12 G, 3/4"C		0.9 kVA			1.1 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. RM 121,123	36
37	RECEP. ELEC. RM, WS RM		P	20 A	1	2#12, 1#12 G, 3/4"C	1.4 kVA			1.0 kVA			2#12, 1#12 G, 3/4"C	1	20 A	B		REFRIGERATOR	38
39	RECEP. RM 116B,A		P	20 A	1	2#12, 1#12 G, 3/4"C		1.4 kVA			1.3 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. TESTING RM 127G	40
41	SPARE		--	20 A	1			0.0 kVA				1.2 kVA	2#12, 1#12 G, 3/4"C	1	20 A	B		MICROWAVE	42
43	SPARE		--	20 A	1		0.0 kVA			0.7 kVA			2#12, 1#12 G, 3/4"C	1	20 A	B		GARBAGE DISPOSAL	44
45	SPARE		--	20 A	1			0.0 kVA			0.0 kVA			1	20 A	--		SPARE	46
47	SPARE		--	20 A	1				0.0 kVA			0.0 kVA		1	20 A	--		SPARE	48
49	SPARE		--	20 A	1		0.0 kVA			0.0 kVA				1	20 A	--		SPARE	50
51	SPARE		--	20 A	1			0.0 kVA			0.0 kVA			1	20 A	--		SPARE	52
53	SPARE		--	20 A	1				0.0 kVA			0.0 kVA		1	20 A	--		SPARE	54
55	SPARE		--	20 A	1		0.0 kVA			0.0 kVA				1	20 A	--		SPARE	56
57	SPARE		--	20 A	1			0.0 kVA			0.0 kVA			1	20 A	--		SPARE	58
59	SPARE		--	20 A	1				0.0 kVA			0.0 kVA		1	20 A	--		SPARE	60
						Total Load:	13.7 kVA		12.9 kVA		10.1 kVA								
						Total Amps:	118 A		111 A		84 A								

Metering Load Type Legend:
L - Lighting
H - HVAC
P - Plugload
B - Building Operations
PR - Process Loads

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
Other	720 VA	100.00%	720 VA		
Power - General	19840 VA	100.00%	19840 VA	**Total Conn. Load:**	36680 VA
Receptacle	16120 VA	81.02%	13060 VA	**Total Est. Demand:**	33620 VA
				Total Conn. Current:	102 A
				Total Est. Demand Current:	93 A

Notes:
(1) PROVIDE GFCI BREAKER.

Branch Panel: H4

Location: LOWER LEVEL
Supply From: SWBD1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 22K
BUS OCP Type: MLO
BUS Rating: 225 A
MCB Rating: NONE

Panel Notes: Provide microprocessor-based panelboard monitoring system for metering each breaker. Refer to Submetering Notes on Power Riser Diagram for more information.

CKT	Circuit Description	Notes	Load	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Load	Notes	Circuit Description	CKT
1	CP-1		B	15 A	1	2#12, 1#12 G, 3/4"C	0.1 kVA			0.5 kVA			EXISTING	1	20 A	--		EX. COMP CONTROLS	2
3	LOWER LEVEL RECEP.		P	20 A	1	2#12, 1#12 G, 3/4"C		0.5 kVA			0.0 kVA			1	20 A	--		SPARE	4
5	EX. CONTROL CABINET		--	20 A	1	EXISTING			0.5 kVA			1.0 kVA	EXISTING	1	20 A	--		EX. UNKNOWN	6
7	BOILER B-1		H	20 A	1	2#12, 1#12 G, 3/4"C	1.0 kVA			0.0 kVA				1	20 A	--		SPARE	8
9	BOILER B-2		H	20 A	1	2#12, 1#12 G, 3/4"C		1.0 kVA			1.5 kVA		EXISTING	1	20 A	--		EX. UNIT HEATER	10
11	EX. UNKNOWN		--	20 A	1	EXISTING			1.0 kVA			0.0 kVA		1	20 A	--		SPARE	12
13	EX. UNKNOWN		--	20 A	1	EXISTING	1.0 kVA			0.0 kVA				1	20 A	--		SPARE	14
15	EX. OIL PUMP		--	20 A	1	EXISTING		1.5 kVA			0.0 kVA			1	20 A	--		SPARE	16
17	SPARE		--	20 A	1				0.0 kVA			0.3 kVA	EXISTING	1	20 A	--		EX. WALL CO'S	18
19	EX. AIR COMPRESSOR		--	20 A	3	EXISTING	1.0 kVA			1.0 kVA			EXISTING	3	20 A	--		EX. AIR COMPRESSOR	20
21	--	--	--	--	--	--		1.0 kVA			1.0 kVA		--	--	--	--	--	--	22
23	--	--	--	--	--	--			1.0 kVA			1.0 kVA	--	--	--	--	--	--	24
25	WH-1		B	70 A	3	3#4, 1#8 G, 1" C	6.0 kVA			0.0 kVA				1	20 A	--		SPARE	26
27	--	--	--	--	--	--		6.0 kVA			0.0 kVA			1	20 A	--		SPARE	28
29	--	--	--	--	--	--			6.0 kVA			0.0 kVA		1	20 A	--		SPARE	30
31	SPACE	--	--	--	1		--			0.8 kVA			3#12, 1#12 G, 3/4"C	3	15 A	B		P-1	32
33	SPACE	--	--	--	1			--			0.8 kVA		--	--	--	--	--	--	34
35	SPACE	--	--	--	1				--			0.8 kVA	--	--	--	--	--	--	36
37	SPACE	--	--	--	1		--			0.8 kVA			3#12, 1#12 G, 3/4"C	3	15 A	B		P-2	38
39	SPACE	--	--	--	1			--			0.8 kVA		--	--	--	--	--	--	40
41	SPACE	--	--	--	1				--			0.8 kVA	--	--	--	--	--	--	42
						Total Load:	12.2 kVA		14.1 kVA		12.4 kVA								
						Total Amps:	102 A		118 A		103 A								

Metering Load Type Legend:
L - Lighting
H - HVAC
P - Plugload
B - Building Operations
PR - Process Loads

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
HVAC	22507 VA	100.00%	22507 VA		
Motor	2382 VA	100.00%	2382 VA	**Total Conn. Load:**	38729 VA
Receptacle	540 VA	100.00%	540 VA	**Total Est. Demand:**	38729 VA
Spare	13300 VA	100.00%	13300 VA	**Total Conn. Current:**	108 A
				Total Est. Demand Current:	108 A

Notes:

Branch Panel: H3

Location: STORAGE 109A
Supply From: SWBD1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 22K
BUS OCP Type: MLO
BUS Rating: 225 A
MCB Rating: NONE

Panel Notes: Provide microprocessor-based panelboard monitoring system for metering each breaker. Refer to Submetering Notes on Power Riser Diagram for more information.

CKT	Circuit Description	Notes	Load	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Load	Notes	Circuit Description	CKT
1	RECEP. STUDENT LOBBY 113		P	20 A	1	2#12, 1#12 G, 3/4"C	1.1 kVA			0.4 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP ENTRY /...	2
3	DRINKING FOUNTAIN		B	20 A	1	2#12, 1#12 G, 3/4"C		0.2 kVA			0.4 kVA		2#12, 1#12 G, 3/4"C	1	20 A	B		COPIER - ADMISSIONS	4
5	RECEP. OFFICE 110D,E,F,G		P	20 A	1	2#12, 1#12 G, 3/4"C			1.4 kVA			0.7 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. OFFICE 110H, 106	6
7	RECEP. OFFICE -105,106,110A		P	20 A	1	2#12, 1#12 G, 3/4"C	1.4 kVA			1.1 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. OFFICE 110B,A	8
9	RECEP. HAWK HUB 111		P	20 A	1	2#12, 1#12 G, 3/4"C		1.1 kVA			0.5 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. CORR. 801	10
11	RECEP. CAREER CNTR 109		P	20 A	1	2#12, 1#12 G, 3/4"C			1.4 kVA			1.1 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. OFFICE -127,128	12
13	RECEP. RESTROOM		P	20 A	1	2#12, 1#12 G, 3/4"C	0.4 kVA			1.1 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. ADVISING 109	14
15	RECEP. RM 102,103		P	20 A	1	2#12, 1#12 G, 3/4"C		1.4 kVA			1.3 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. RM 109C,B, 101	16
17	RECEP. RM 109E,D		P	20 A	1	2#12, 1#12 G, 3/4"C			0.7 kVA			1.1 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. RM 109H,G,F	18
19	RECEP. WELC. LOBBY 100		P	20 A	1	2#12, 1#12 G, 3/4"C	1.4 kVA			0.9 kVA			2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. WELC. LOBBY 100	20
21	RECEP. WELC. LOBBY 100		P	20 A	1	2#12, 1#12 G, 3/4"C		1.1 kVA			0.9 kVA		2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. WELC. LOBBY 100	22
23	SPARE		--	20 A	1				0.0 kVA			1.4 kVA	2#12, 1#12 G, 3/4"C	1	20 A	P		RECEP. WELC. LOBBY 100	24
25	SPARE		--	20 A	1		0.0 kVA			1.0 kVA			2#12, 1#12 G, 3/4"C	1	20 A	B		NORTH SLIDING DOORS	26
27	COPIER - ADMISSIONS		B	20 A	1	2#12, 1#12 G, 3/4"C		0.2 kVA			0.0 kVA			1	20 A	--		SPARE	28
29	WELC. LOBBY DIGITAL SIGN		L	20 A	1	2#12, 1#12 G, 3/4"C			0.1 kVA			0.1 kVA	2#12, 1#12 G, 3/4"C	1	20 A	B		JBOX.FLUSH VALVES AND...	30
31	JBOX.HAND DRYER		B	20 A	1	2#12, 1#12 G, 3/4"C	0.1 kVA			0.1 kVA			2#12, 1#12 G, 3/4"C	1	20 A	B		JBOX.HAND DRYER	32
33	JBOX.FLUSH VALVES AND...		B	20 A	1	2#12, 1#12 G, 3/4"C		0.1 kVA			0.8 kVA		2#12, 1#12 G, 3/4"C	2	15 A	H		EWH-2	34
35	ECUH		H	15 A	2	2#12, 1#12 G, 3/4"C			0.8 kVA			0.8 kVA	--	--	--	--	--	36
37	--	--	--	--	--	--	0.8 kVA			0.4 kVA			2#12, 1#12 G, 3/4"C	1	15 A	H		EF-2,3	38
39	RECEP. RESTROOM		P	20 A	1	2#12, 1#12 G, 3/4"C		0.2 kVA			0.2 kVA		2#12, 1#12 G, 3/4"C	1	20 A	B		ADVISING COPIER	40
41	VAV2-108		H	15 A	2	2#12, 1#12 G, 3/4"C			1.0 kVA			0.8 kVA	2#12, 1#12 G, 3/4"C	2	15 A	H		VAV1-116,122,123	42
43	--	--	--	--	--	--	1.0 kVA			0.8 kVA			--	--	--	--	--	--	44
45	VAV1-121,124, VAV2-103		H	15 A	2	2#12, 1#12 G, 3/4"C		1.0 kVA			1.0 kVA		2#12, 1#12 G, 3/4"C	2	15 A	H		VAV2-100,101,102	46
47	--	--	--	--	--	--			1.0 kVA			1.0 kVA	--	--	--	--	--	--	48
49	VAV2-104,105,106,109,110		H	15 A	2	2#12, 1#12 G, 3/4"C	1.2 kVA			0.9 kVA			2#12, 1#12 G, 3/4"C	2	15 A	H		VAV2-107,113,114	50
51	--	--	--	--	--	--		1.2 kVA			0.9 kVA		--	--	--	--	--	--	52
53	VAV2-112,115,116		H	15 A	2	2#12, 1#12 G, 3/4"C			1.1 kVA			0.8 kVA	2#12, 1#12 G, 3/4"C	2	15 A	H		VAV2-111,119	54
55	--	--	--	--	--	--	1.1 kVA			0.8 kVA			--	--	--	--	--	--	56
57	VAV2-117,118		H	15 A	2	2#12, 1#12 G, 3/4"C		0.8 kVA			1.0 kVA		2#12, 1#12 G, 3/4"C	1	20 A	B		EAST SLIDING DOORS	58
59	--	--	--	--	--	--			0.8 kVA			0.0 kVA		1	20 A	--		SPARE	60
61	SPARE		--	20 A	1		0.0 kVA			0.0 kVA				1	20 A	--		SPARE	62
63	SPARE		--	20 A	1			0.0 kVA			0.0 kVA			1	20 A	--		SPARE	64
65	SPARE		--	20 A	1				0.0 kVA			4.2 kVA	3#4, 1#4 G, 1-1/2"C	2	40 A			FUTURE EV CHARGER	66
67	SPARE		--	20 A	1		0.0 kVA			4.2 kVA			--	--	--	--	--	--	68
69	SPARE		--	20 A	1			0.0 kVA			4.2 kVA		3#4, 1#4 G, 1-1/2"C	2	40 A			FUTURE EV CHARGER	70
71	SPARE		--	20 A	1				0.0 kVA			4.2 kVA	--	--	--	--	--	--	72
						Total Load:	20.0 kVA		18.3 kVA		24.4 kVA								
						Total Amps:	169 A		152 A		205 A								

Metering Load Type Legend:
L - Lighting
H - HVAC
P - Plugload
B - Building Operations
PR - Process Loads

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
HVAC	20399 VA	100.00%	20399 VA		
Other	1080 VA	100.00%	1080 VA	**Total Conn. Load:**	62679 VA
Power - General	14120 VA	100.00%	14120 VA	**Total Est. Demand:**	66619 VA
Receptacle	10440 VA	97.89%	10220 VA	**Total Conn. Current:**	174 A
Elec. Vehicle	16640 VA	125.00%	20800 VA	**Total Est. Demand Current:**	185 A

Notes:

H1	H2
H4	H3

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date | Title
DGS APPROVAL
Project Manager | Date | Chief of FM&AD | Date

MARK	DATE	BY	DESCR

REVISIONS

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER No. 37790

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
PANEL SCHEDULES

SHEET
E-702

BIM 360://21248-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt
12/7/2022 10:30:05 AM

Branch Panel: EM-HT

Location: EMERG. ATS 122
Supply From: ATS-LS
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10K
BUS OCP Type: MCB
BUS Rating: 60 A
MCB Rating: 60 A

Notes:
EXISTING PANELBOARD

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1	EX. SPARE		20 A	1		0.0 kVA			1.1 kVA			2#10, 1#10 G, 3/4" C	1	20 A		EM LIGHTING	2
3	EX. SPARE		20 A	1			0.0 kVA			1.3 kVA		2#10, 1#10 G, 3/4" C	1	20 A		EM LIGHTING	4
5	EX. SPARE		20 A	1				0.0 kVA			0.1 kVA	2#10, 1#10 G, 3/4" C	1	20 A		EM LIGHTING	6
7	EX. SPARE		20 A	1		0.0 kVA			0.1 kVA			2#12, 1#12 G, 3/4"C	1	20 A		EXT EM LIGHTING	8
9	EX. SPARE		20 A	1			0.0 kVA			0.1 kVA		2#12, 1#12 G, 3/4"C	1	20 A		C2 CONTACTOR CONTROL	10
11	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	12
13	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	14
15	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	16
17	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	18
19	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	20
21	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	22
23	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	24
25	EX. MAIN		60 A	3		0.0 kVA			--				1	--	--	EX. SPACE	26
27	--	--	--	--	--		0.0 kVA			0.0 kVA			2	30 A		EX. SPARE	28
29	--	--	--	--	--			0.0 kVA			0.0 kVA	--	--	--	--	--	30
					Total Load:	1.1 kVA		1.4 kVA		0.1 kVA							
					Total Amps:	11 A		13 A		1 A							

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
Lighting - General	2561 VA	125.00%	3201 VA		
Power - General	100 VA	100.00%	100 VA	**Total Conn. Load:**	2661 VA
				Total Est. Demand:	3301 VA
				Total Conn. Current:	7 A
				Total Est. Demand Current:	9 A

Notes:

Branch Panel: GEN-HT

Location: EMERG. ATS 122
Supply From: GENERATOR
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: 18K
BUS OCP Type: MCB
BUS Rating: 60 A
MCB Rating: 60 A

Notes:
EXISTING PANELBOARD

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1	EX. EM-HT VIA 15KVA XFMR		30 A	3	EXISTING	0.0 kVA			0.0 kVA			EXISTING	3	30 A		EX. SLP VIA 15KVA XFMR	2
3	--	--	--	--	--		0.0 kVA			0.0 kVA		--	--	--	--	--	4
5	--	--	--	--	--			0.0 kVA			0.0 kVA	--	--	--	--	--	6
7	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	8
9	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	10
11	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	12
13	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	14
15	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	16
17	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	18
19	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	20
21	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	22
23	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	24
25	EX. MAIN		60 A	3		0.0 kVA			--				1	--	--	EX. SPACE	26
27	--	--	--	--	--		0.0 kVA			--			1	--	--	EX. SPACE	28
29	--	--	--	--	--			0.0 kVA			--		1	--	--	EX. SPACE	30
					Total Load:	0.0 kVA		0.0 kVA		0.0 kVA							
					Total Amps:	0 A		0 A		0 A							

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: SLP

Location: EMERG. ATS 122
Supply From: ATS-SLP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10K
BUS OCP Type: MCB
BUS Rating: 60 A
MCB Rating: 60 A

Notes:
EXISTING PANELBOARD

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1	EX. TELECOMRECEPT,RM734		20 A	1	EXISTING	0.0 kVA			1.0 kVA			2#12, 1#12 G, 3/4"C	1	20 A		CR DOOR POWER SUPPLIES	2
3	EX. EF-2,EF-3		20 A	1	EXISTING		0.0 kVA			0.0 kVA			1	20 A		EX. SPARE	4
5	EX. SPARE		20 A	1				0.0 kVA			0.0 kVA		1	20 A		EX. SPARE	6
7	EX. SPARE		20 A	1		0.0 kVA			0.0 kVA				1	20 A		EX. SPARE	8
9	EX. SPARE		20 A	1			0.0 kVA			0.0 kVA			1	20 A		EX. SPARE	10
11	EX. SPACE	--	--	1				--			0.0 kVA		2	20 A		EX. SPARE	12
13	EX. SPACE	--	--	1		--			0.0 kVA			--	--	--	--	--	14
15	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	16
17	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	18
19	EX. SPACE	--	--	1		--			--				1	--	--	EX. SPACE	20
21	EX. SPACE	--	--	1			--			--			1	--	--	EX. SPACE	22
23	EX. SPACE	--	--	1				--			--		1	--	--	EX. SPACE	24
25	EX. MAIN		60 A	3		0.0 kVA			--				1	--	--	EX. SPACE	26
27	--	--	--	--	--		0.0 kVA			0.0 kVA			2	30 A		EX. SPARE	28
29	--	--	--	--	--			0.0 kVA			0.0 kVA	--	--	--	--	--	30
					Total Load:	1.0 kVA		0.0 kVA		0.0 kVA							
					Total Amps:	8 A		0 A		0 A							

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
Power - General	1000 VA	100.00%	1000 VA		
				Total Conn. Load:	1000 VA
				Total Est. Demand:	1000 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Branch Panel: SWBD1

Location: ELEC. ROOM 124
Supply From: UTILITY
Mounting: FREE STANDING
Enclosure: NEMA 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 65K
BUS OCP Type: MCB
BUS Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	B	C	A	B	C	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	CKT
1	PANEL H1		225 A	3	4#4/0, 1#4 G, 2"C	16.7...			13.7...			4#4/0, 1#4 G, 2"C	3	225 A		PANEL H2	2
3	--	--	--	--	--		14.6...			12.9...		--	--	--	--	--	4
5	--	--	--	--	--			18.6...			10.1...	--	--	--	--	--	6
7	PANEL H3		225 A	3	4-350KCM, 1#1 G, 2-1/2"C	20.0...			12.2...			4#4/0, 1#4 G, 2"C	3	225 A		PANEL H4	8
9	--	--	--	--	--		18.3...			14.1...		--	--	--	--	--	10
11	--	--	--	--	--			24.4...			12.4...	--	--	--	--	--	12
13	ATS-LS		45 A	3	4#6, 1#8 G, 1"C	1.1 kVA			1.0 kVA			4#6, 1#8 G, 1"C	3	45 A		ATS-SLP	14
15	--	--	--	--	--		1.4 kVA			0.0 kVA		--	--	--	--	--	16
17	--	--	--	--	--			0.1 kVA			0.0 kVA	--	--	--	--	--	18
19	RTU-1		250 A	3	4-250KCM, 1#4 G, 2-1/2" C	24.1...			24.1...			4-250KCM, 1#4 G, 2-1/2" C	3	250 A		RTU-2	20
21	--	--	--	--	--		24.1...			24.1...		--	--	--	--	--	22
23	--	--	--	--	--			24.1...			24.1...	--	--	--	--	--	24
25	SPARE		225 A	3		0.0 kVA			0.0 kVA				3	100 A		SPARE	26
27	--	--	--	--	--		0.0 kVA			0.0 kVA		--	--	--	--	--	28
29	--	--	--	--	--			0.0 kVA			0.0 kVA	--	--	--	--	--	30
31																	32
33																	34
35																	36
37																	38
39																	40
41																	42
					Total Load:	112.9 kVA		109.5 kVA		113.7 kVA							
					Total Amps:	945 A		913 A		952 A							

Load Classification	Connected Load	Demand Factor	Demand	Panel Totals	
HVAC	217048 VA	100.00%	217048 VA		
Lighting - General	13445 VA	125.00%	16806 VA	**Total Conn. Load:**	336185 VA
Motor	3432 VA	100.00%	3432 VA	**Total Est. Demand:**	334706 VA
Other	1800 VA	100.00%	1800 VA	**Total Conn. Current:**	933 A
Power - General	42520 VA	100.00%	42520 VA	**Total Est. Demand Current:**	929 A
Receptacle	28000 VA	67.86%	19000 VA		
Spare	13300 VA	100.00%	13300 VA		
Elec. Vehicle	16640 VA	125.00%	20800 VA		

Notes:

EM-HT	GEN-HT
SLP	SWBD1

1/32" = 1'-0" 0' 16' 32' 48'
1/16" = 1'-0" 0' 4' 8' 16' 24'
3/32 = 1'-0" 0' 4' 8' 16'
1/8" = 1'-0" 0' 4' 8' 12'
1/4" = 1'-0" 0' 2' 4' 6'
3/8" = 1'-0" 0' 1' 2' 3' 4'
1/2" = 1'-0" 0' 6" 1' 2' 3'
3/4" = 1'-0" 0' 6" 1' 2'
1" = 1'-0" 0' 3" 6" 9" 1' 1.5'
1 1/2" = 1'-0" 0' 3" 6" 9" 1'
3" = 1'-0" 0' 1" 2" 3" 4" 5" 6"
6" = 1'-0" 0' 1" 2" 3"
12" = 1'-0" 0' 1" 1.5"

CENTURY ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com

© 2021 ALL RIGHTS RESERVED

USING AGENCY APPROVAL
Name | Date
Title
DGS APPROVAL
Project Manager | Date
Chief of FM&AD | Date

MARK	DATE	BY	DESCR
REVISIONS			

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 37790, expiration date 06/06/2023.

DATE	12.09.2022
PROJECT	210066.00
DESIGNED	DRW
DRAWN	DRW
CHECKED	SGH

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND · STEVEN G. REIDLINGER · No. 37790 · PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
PANEL SCHEDULES

SHEET
E-703

12/7/2022 10:20:05 AM BIM 360://21246-00 CSM Health Technology Building/210066 - College of S MD-Health Tech Bldg - MEP Central(R21).rvt

ABBREVIATIONS:

A	AMPERE, AMPERES
AMP	AMPERE, AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAP	CAPACITY
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CND	CONDUIT
COMP	COMPUTER
CTX	CONNECT TO EXISTING
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FRM	FRAME
GFI	GROUND FAULT INTERRUPTING
G	GROUND
GND	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LRA	LOCKED ROTOR AMPERES
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFS	MAXIMUM FUSE SIZE
MH	MOUNTING HEIGHT/MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFSS	NONFUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
OH	OVERHEAD
P	POLE, POLES
Ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RX	REMOVE EXISTING
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT, VOLTS
W	WATTS/WIRE, WIRES
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES:

1. GENERAL NOTES ON THIS DRAWING SHALL APPLY TO ALL TECHNOLOGY DRAWINGS ON THIS PROJECT. CAREFULLY READ ALL GENERAL NOTES PRIOR TO COMMENCEMENT OF WORK.
2. ANY MATERIALS & DEVICES NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR INDICATED ON THESE CONTRACT DRAWINGS THAT ARE REQUIRED FOR A COMPLETE FINISHED AND OPERATING SYSTEM INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. WHERE THE TERM "PROVIDE" IS USED ON THE DRAWINGS, IT SHALL BE DEFINED AS FOLLOWS: FURNISH, INSTALL, & MAKE ALL FINAL CONNECTIONS FOR THE EQUIPMENT INDICATED.
4. CABLE ROUTES ILLUSTRATED ARE DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR & DOCUMENTED FOR FUTURE REFERENCE BY THE OWNER.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE & LOCAL AMENDMENTS.
6. REFER TO ELECTRICAL DRAWINGS & DIVISION 16 SPECIFICATIONS FOR ELECTRICAL ROUGH-IN, CONDUITS & BOXES. ANY CONDUIT, BOXES, & ASSOCIATED ROUGH-IN NOT INCLUDED IN DIVISION 26 SHALL BE PROVIDED UNDER DIVISION 27.

SOUND SYSTEM

VC — VOLUME CONTROL. WALL MOUNTED AT 4'-0" AFF UON.

S S — SPEAKER; CEILING MOUNTED, WALL MOUNTED AT 7'-6" AFF UON
WP - WEATHERPROOF, H - HORN TYPE, V - INTEGRAL VOLUME CONTROL,
P - HIGH PERFORMANCE TYPE

MISCELLANEOUS:

1 — DENOTES REFERENCE TO DRAWING NOTE

1 — DENOTES REFERENCE TO REVISIONS TO DRAWING

CONVENTIONS:

/ E#.# — DETAIL NUMBER

DRAWING NUMBER WHERE DETAIL IS LOCATED

#/E#.# — DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

TECHNOLOGY GENERAL NOTES:

1. CABLING SHALL BE TERMINATED IN TECHNOLOGY ROOMS AS NOTED IN T-SERIES DRAWINGS. KEY PLAN DIVISIONS ARE FOR ARCHITECTURAL REPRESENTATION AND DO NOT DICTATE CABLE ROUTING AND TERMINATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL ITEMS ARE NOT ENUMERATED IN THE DESIGN PACKAGE AND THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED TO MEET THE DESIGN INTENT.
3. VERIFY DEVICE LOCATIONS IN THE FIELD WITH DUE REGARD TO AS-BUILT CONDITIONS BEFORE INSTALLATION. COORDINATE WORK WITH FIELD CONDITIONS AND OTHER TRADES IN ORDER TO MEET DESIGN INTENT.
4. DEBURR ALL CONDUIT AND PROVIDE BUSHINGS AND 200LB PULLSTRING PRIOR TO INSTALLING CABLE.
5. CONDUIT BENDS SHALL BE SWEEPS TO MAINTAIN PROPER CABLE BEND RADIUS.
6. CONDUIT STUB-OUTS SHALL BE EXTENDED TO NEAREST ACCESSIBLE CEILING SPACE WITHIN ROOM IN WHICH THE DEVICE RESIDES UNLESS OTHERWISE NOTED. FOR ROOMS WITH HARD CEILINGS, CONDUIT SHALL BE ROUTED TO ADJOINING CORRIDOR IN COMMON WITH A ROOM DOOR UNLESS NOTED OTHERWISE. CONDUITS SHALL NOT PASS THROUGH OTHER ROOMS TO REACH A CORRIDOR, UNLESS THE ROOM IS COMPLETELY SURROUNDED BY OTHER ROOMS OR SPACES (E.G., ELEVATORS AND INACCESSIBLE CHASES).
7. PROVIDE PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH SPECIFIED STANDARDS AND LOCAL CODES. AT A MINIMUM, PROVIDE ONE (1) PULL BOX FOR EVERY 100 FEET OF STRAIGHT CONDUIT RUN, AND ONE (1) PULL BOX AFTER TWO (2) 90-DEGREE BENDS.
8. COORDINATE EXACT ROUTING OF CONDUIT AND PATHWAYS BASED ON FIELD CONDITIONS. WHERE GENERAL DESIGN INTENT CANNOT BE ACHIEVED, OBTAIN FORMAL APPROVAL OF ROUTING CHANGES FROM OWNER'S REPRESENTATIVE.
9. PLACE CABLES WITHIN CABLE TRAY IN A RANDOM FASHION WITHOUT BUNDLING. CABLE TIES SHALL NOT BE USED.
10. PROVIDE CABLE TRAY RADIUS DROP (WATERFALL) WHERE CABLES EXIT TRAY.
11. CABLES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY APPROVED J-HOOKS OR SLINGS WHEN NOT IN CONDUIT OR COMMON LOW VOLTAGE CABLE TRAY. CABLES TRANSITIONING TO AND FROM CABLE TRAY, CONDUIT, SLEEVES, J-HOOKS OR OTHER SUPPORT MECHANISM SHALL BE SUPPORTED WHEN THE TRANSITION SPANS MORE THAN 3 FEET.
12. PROVIDE PLENUM RATED CABLE WHEN INSTALLED IN PLENUM SPACE.
13. PROVIDE BLANK PLATES FOR ALL UNUSED BOXES.
14. ALL CABLING PASSING THROUGH WALL STRUCTURE SHALL BE SUPPORTED WITH CONDUIT, SLEEVE, FIRESTOP ASSEMBLY, ETC, AS REQUIRED THROUGH THE WALL STRUCTURE. PATHWAY SIZING SHALL ADHERE TO THE REFERENCED STANDARDS AND FILL RATIO REQUIREMENTS. PROVIDE CONDUIT, SLEEVES, FIRESTOP ASSEMBLIES, ETC, FOR ALL CABLE PENETRATING WALLS IN ACCORDANCE WITH THE REFERENCED STANDARDS IN THE SPECIFICATIONS.
15. SUBMIT DEVICE, FACEPLATE AND OUTLET COLOR SAMPLES TO OWNER'S REPRESENTATIVE PRIOR TO ORDER.
16. REFER TO LIFE SAFETY DRAWINGS FOR FIRE & SMOKE WALL LOCATIONS. CONDUIT PENETRATIONS SHALL BE PROPERLY FIRESTOPPED PER CODE. CABLE TRAY SHALL NOT PENETRATE FIRE & SMOKE WALLS. LISTED FIRESTOP ASSEMBLIES SHALL BE USED TO PENETRATE FIRE & SMOKE WALLS FOR CABLE TRAY PATHWAYS.
17. PROVIDE ALL CABLE TRAY MATERIALS AS NEEDED FOR A COMPLETE, MANUFACTURER-APPROVED SYSTEM USING CABLE TRAY MANUFACTURERS' MATERIALS AND PARTS WHEN AVAILABLE FROM THE MANUFACTURER, AND AS INTENDED. PROVIDE SWEEPS AND T-SECTIONS FOR ALL CHANGES IN DIRECTION AND INTERSECTIONS. MAINTAIN A 1 FOOT MINIMUM RADIUS IN CHANGES OF DIRECTION FOR ALL SWEEPS AND TEES.
18. UNLESS OTHERWISE NOTED, ALL HORIZONTAL TECHNOLOGY CABLE SHALL TERMINATE IN THE TECHNOLOGY ROOM WITHIN CLOSEST PROXIMITY ON THE SAME FLOOR AS THE OUTLET OR DEVICE.
19. REFER TO SYMBOL LEGEND, SCHEDULES AND DETAILS FOR ALL BOX AND CONDUIT REQUIREMENTS.
20. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SHARED TECHNOLOGY AND ELECTRICAL FLOOR BOXES AND POKETHRUS.
21. CABLE ZONES REPRESENT THE DIVISION LINE FOR CABLE TERMINATIONS BETWEEN COMM ROOMS. TERMINATE ALL TECHNOLOGY CABLING IN COMM ROOMS AS DEFINED BY DIVISION LINES, UNLESS OTHERWISE NOTED.
22. PROTECT AND MAINTAIN EXISTING CCTV CAMERA POWER SUPPLIES, CABLING, INNER-DUCTS, SPLICE BOXES AND ASSOCATED PRODUCTS TO REMAIN.
23. PROVIDE PATCHING OF ALL EXISTING PENETRATIONS WERE CABLING IS REMOVED. CAP AND SEAL ALL ABONDONED CONDUITS. PROVIDE CUTTIGN AND PATCHING TO INSTALL NEW WORK CONCEALED.
24. PROVIDE NEW CABLING STRAPS, CABLE TIES, J-HOOKS AND SUPPORTS FOR BOTH NEW AND EXISITNG CABLING TO REMAIN. ALL CABLING INSTALLED ABOVE CEILING SHALL BE SUPPORTED INDEPENDENTLY FROM EXISTING BUILDING STRUCTURE. PROVIDE NEW APPROPRIATE BUILDING SUPPORTS INDEPENDENT OF EXISTING BUILDING STRUCTURE SUPPORTS.
25. LOCATE AND IDENTIFY ALL EXISTING CABLING. PROVIDE SITE SURVEY AND INVESTIGATION. TAG ALL EXISTING CABLING TO REMAIN WITH NEW IDENTIFICATION CABLE TAGS (IE SECURITY CAMERA CABLING, COMMUNICATIONS CABLING, AND TELEPHONE SYSTEMS, ETC).
26. THE EXISTING CABLING SERVING OUTSIDE THE AREA OF WORK SHALL BE EXISTING TO REMAIN. THE CONTRACTOR SHALL LOCATE PROTECT AND MAINTANCE THE EXISTING CABLING. LOCATE AND IDENTIFY ALL EXISTING CABLING. PROVIDE SITE SURVEY AND INVESTIGATION. TAG ALL EXISTING CABLING TO REMAIN WITH NEW IDENTIFICATION CABLE TAGS. PROIVDE COORIDNATION WITH OWNER TOCONFIRM ALL EXISITNG CABLIGN HAS BEEN PROPERLY IDENTIFIED.
27. CONTRACTOR SHALL PROVIDE MANDATORY SITE SURVEYS OF ENTIRE BUILDING TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SHALL INVESTIGATE ALL CABLE ROUTING AND PATHWAYS. PROVIDE MULTIPLE CREWS FOR COMPREHENSIVE SITE INVESTIGATION AND TRACING & IDENTIFICATION OF EXISTING CABLES AND SYSTEMS. CONTRACTOR SHALL INCLUDE SUPPLEMENTAL SURVEYS TO DETERMINE ALTERNATIVE SOLUTIONS FOR INSTALLATION OF NEW CABLING.
28. THE BUILDING STRUCTURE CONTAINS CONDUITS AND OTHER OBSTRUCTIONS THAT MAY REQUIRE ADJUSTMENT OF PROPOSED FLOOR PENETRATIONS.CONTRACTOR SHALL PROVIDE THE SERVICES OF PROFESSIONAL CONSTRUCTION SCANNING SERVICES TO SCAN / X-RAY ALL PROPOSED FLOOR PENETRATIONS.
29. DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING WORK. IN AREAS TO BE RENOVATED, REMOVE ALL EXISTING WORK UNLESS OTHERWISE NOTED. WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED WORK BACK TO SOURCE. INFORMATION SHOWN ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEND OBTAINED FROM THE AVAILABLE BUILDING DRAWINGS AND GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL FIELD CONDITIONS IN DETAIL OR DIMENSIONS. THE ITEMS IDENTIFIED REPRESENT THE MAJOR ITEMS, GENERAL LOCATIONS OF WORK AND SYSTEMS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. THE CONTRACTOR SHALL VISUALLY INSPECT ALL EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR PERFORMING THE INDICATED DEMOLITION WORK EVEN IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS.
30. LOCATIONS OF DEVICES ARE APPROXIMATE. EXACT LOCATION OF ALL DEVICES SHALL BE DETERMINED IN THE FIELD.

TECHNOLOGY LEGEND:

NOTE: ALL MOUNTING HEIGHTS AND LOCATIONS OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD BY THE CONTRACTOR PRIOR TO ROUGH-IN.

DATA

- 2 — DATA OUTLET: SUBSCRIPT DENOTES QUANTITY. M.H. 18" AFF.
- WAP 1 — WIRELESS ACCESS POINT ABOVE CEILING MOUNTED
- A — INTERCOM ADMIN TELEPHONE CONSOLE AND OUTLET
- 3C W — WIRELESS DATA OUTLET ABOVE CEILING DATA OUTLET WITH 10 FEET OF CAT 6 CABLING COILED ABOVE CEILING FOR CONNECTION TO WIRELESS ACCESS POINT (BY OWNER'S VENDOR)
- EXTERIOR WIRELESS DATA OUTLET IN RECESS CD J-BOX.
- 3 — FLOOR BOX WITH DATA OUTLET
- TELEPHONE OUTLET: M.H. 18" AFF.
- P L P H — PROJECTOR LOW/HIGH OUTLET. PROVIDE CEILING MOUNT PROJECTOR HIGH OUTLET UNDER BASE BID. PROVIDE WALL MOUNT PROJECTOR OUTLET FOR INTERACTIVE WHITE BOARD UNDER ALTERNATE. REFER TO DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
- WALL MOUNTED 12" WIDE BY 4" DEEP BASKET TYPE CABLE TRAY AND CLEARANCE SPACE. MOUNTING HEIGHT SHALL BE 3" TO BOTTOM OF TRAY ABOVE LAY-IN CEILING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- V — VIDEO OUTLET.
- EQUIPMENT RACK/CABINET.
- H — HANDHOLE/EXTERIOR J-BOX
- PULLBOX: SIZE AS INDICATED
- J — JUNCTION BOX, WALL MOUNTED
- CONDUIT, CONDUIT SLEEVE - SIZE AND QUANTITY AS INDICATED.
- J — JUNCTION BOX

SECURITY

- S — SECURITY SYSTEM SIREN - CEILING MOUNTED.
- DC — DOOR CONTACTS
- DC OH — DOOR CONTACTS, OVERHEAD
- # — CEILING/FIXED MOUNTED CCTV CAMERA.
- R — RE-USE EXISTING TESTING CENTER CAMERA
- N — NEW TESTING CENTER CAMERA
- # — WALL MOUNTED CCTV CAMERA.
- # — CORNER WALL MOUNTED CCTV CAMERA.
- # PTZ — PAN/TILT/ZOOM CCTV CAMERA.
- PS — CCTV CAMERA POWER SUPPLY
- K — SECURITY SYSTEM KEYPAD; MOUNT AT 4'-0" AFF.
- CR — CARD READER
- IC — VIDEO DOOR STATION
- IC M — VIDEO ENTRY MASTER DOOR CONTROL STATION
- CR — CARD READER - REFER TO ACCESS CONTROL SYSTEM CARD READER DETAIL FOR ADDITIONAL INFORMATION.
- MD — MOTION DETECTOR

SHEET NUMBER	SHEET NAME
T-001	SYMBOLS & LEGEND
T-100	TELECOM SITE PLAN
T-101	FIRST FLOOR PLAN - TELECOM
T-102	FIRST FLOOR PLAN - SECURITY
T-300	RISER DIAGRAMS
T-501	TELECOM DETAILS
T-502	TELECOM DETAILS
T-503	TELECOM DETAILS
T-504	TELECOM DETAILS
T-505	TELECOM DETAILS
T-506	TELECOM DETAILS
T-507	SECURITY DETAILS

USING AGENCY APPROVAL
Name / Date
Title: DGS APPROVAL
Project Manager / Date
Chief of FM&AD / Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND — JAMES WALTER WHITE — No. 22868 — PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

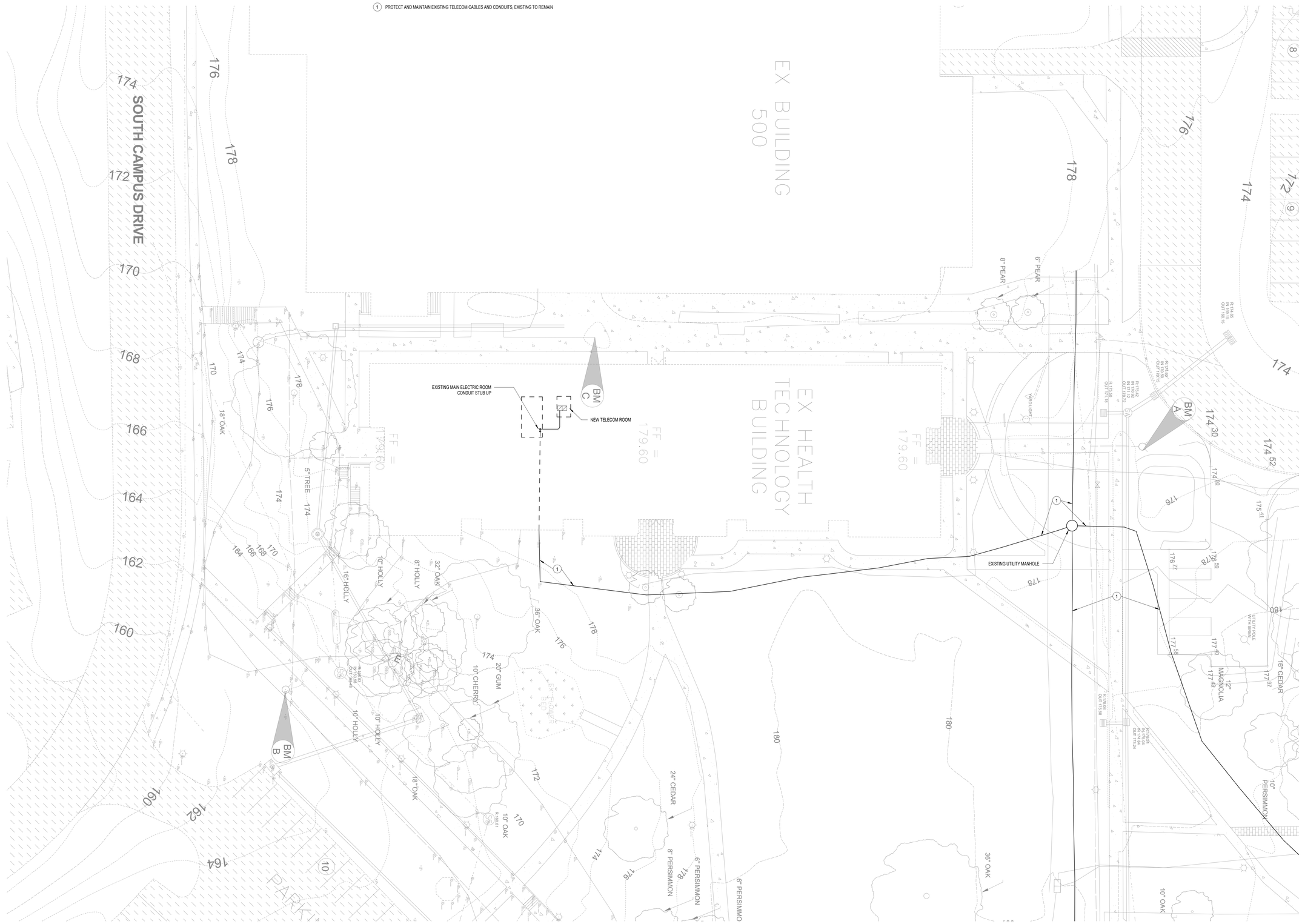
DRAWING
SYMBOLS & LEGEND

SHEET
T-001

12/7/2022 11:56:06 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt

DRAWING NOTES:

1. PROTECT AND MAINTAIN EXISTING TELECOM CABLES AND CONDUITS, EXISTING TO REMAIN



1 / T-100 TELECOM SITE PLAN
SCALE: N.T.S.

USING AGENCY APPROVAL

Name	Date
Title: DGS APPROVAL	
Project Manager	Date
Chief of FM&ES	Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALLIS WARD No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

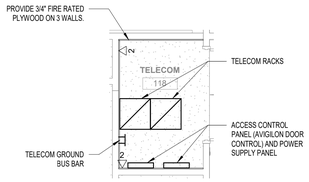
DRAWING
TELECOM SITE PLAN

SHEET
T-100

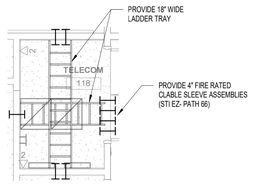
12/7/2022 11:56:07 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt

DRAWING NOTES:

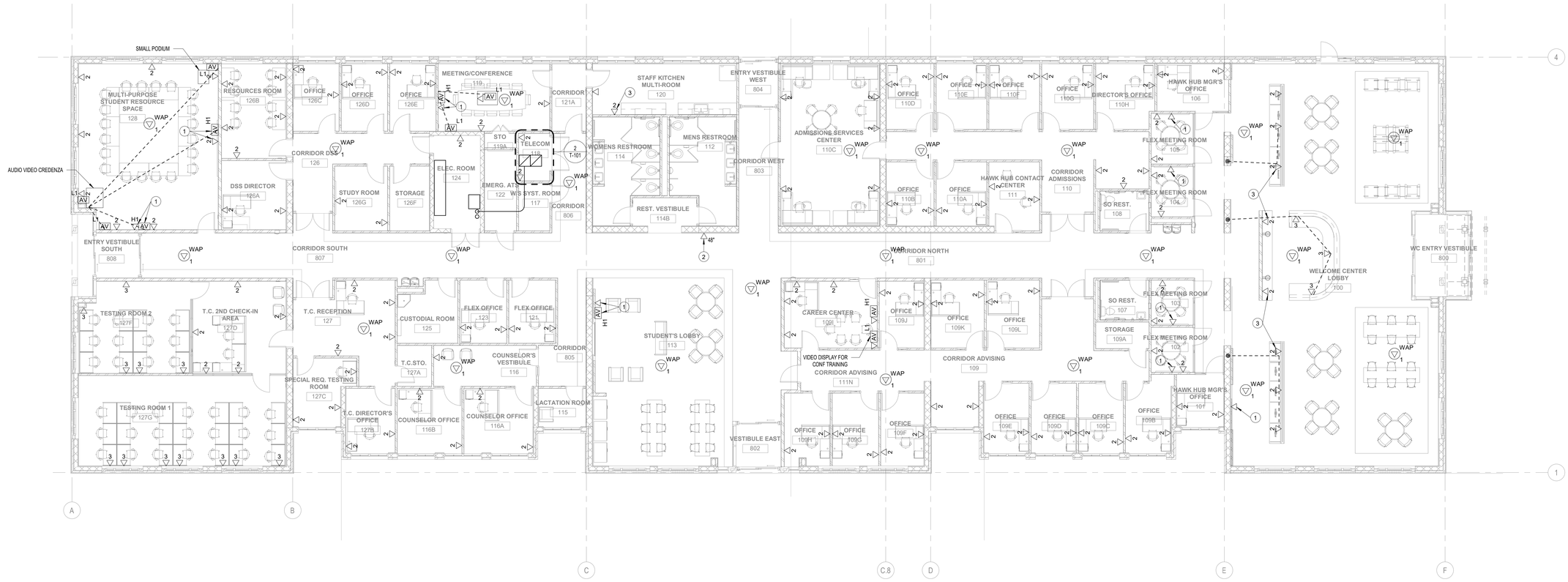
1. MOUNT BEHIND VIDEO DISPLAY
2. PROVIDE WALL MOUNTED DATA OUTLET (48" AFF) FOR VOIP TELEPHONE
3. MOUNT AT COPIER
4. PROVIDE TWO 4" CONDUITS BETWEEN ELECTRIC ROOM AND NEW MDF ROOM.



2 T-101 TELECOM 142 - LAYOUT
SCALE: 1/4" = 1'-0"



3 T-101 TELECOM 142 - OVERHEAD PLAN
SCALE: 1/4" = 1'-0"



1 T-101 FIRST FLOOR PLAN - TELECOM
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL

Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of PM&ED: Date:

MARK	DATE	BY	DESCR

REVISIONS

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WILLIAM WALSH No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

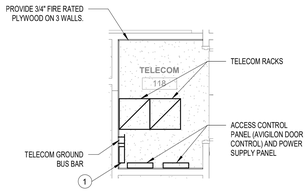
DRAWING
FIRST FLOOR PLAN - TELECOM

SHEET
T-101

BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt
12/7/2022 11:56:11 AM

DRAWING NOTES:

1. PROVIDE INTRUSION ALARM PANEL (DMP XR550) WITH COMMUNICATIONS PANEL
2. PROVIDE MULTI-SENSOR 360 DEGREE 8MP X 4 LENS SECURITY CAMERA (AVIGILON)
3. PROVIDE 12MP FISHEYE SECURITY CAMERA (AVIGILON)
4. PROVIDE 3MP FIXED LENS DOME SECURITY CAMERA (AVIGILON)
5. PROVIDE 5MP WDR FIXED LENS DOME SECURITY CAMERA (AVIGILON)



2 T-102 TELECOM 142 - LAYOUT
SCALE: 1/4" = 1'-0"

1 T-102 FIRST FLOOR PLAN - SECURITY
SCALE: 1/8" = 1'-0"

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of PM&CD: Date

MARK	DATE	BY	DESCR

REVISIONS

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WEBB No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

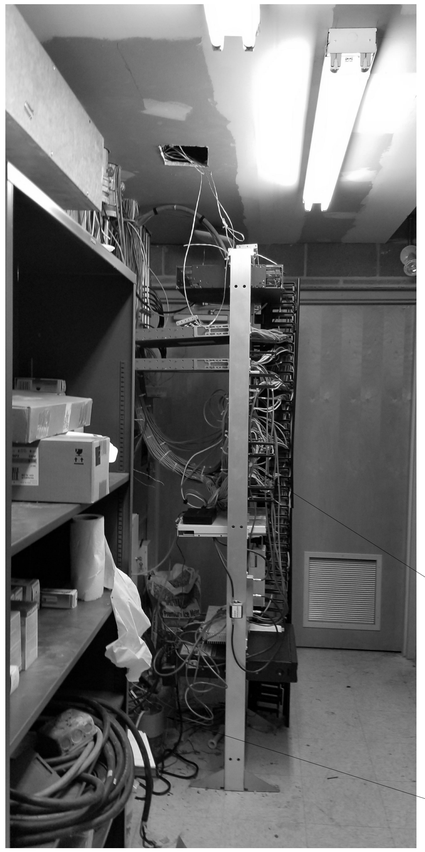
MHEC PROJECT CC-09-473

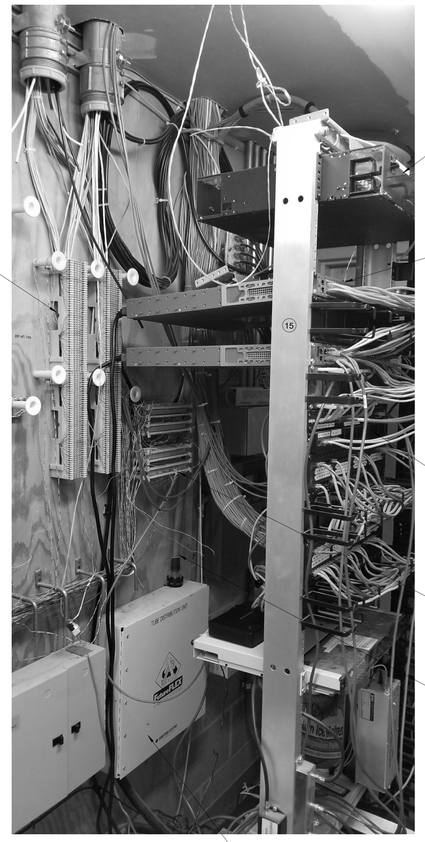
PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
FIRST FLOOR PLAN - SECURITY

SHEET
T-102

12/7/2022 11:56:15 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Revs - TECH R21.rvt



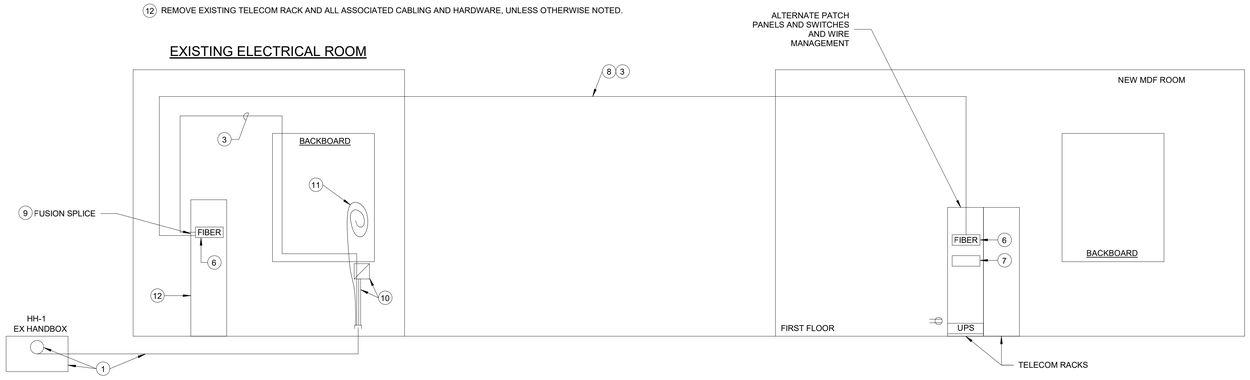


GENERAL DEMOLITION NOTES:

1. ALL CONDUIT AND CABLING ASSOCIATED WITH EXISTING VOICE/DATA/VIDEO/SECURITY EQUIPMENT SERVING THE LIBRARY SHALL BE REMOVED BACK TO ITS SOURCE, UNLESS OTHERWISE NOTED. ABANDON ALL EXISTING CONDUIT RUNS WITHIN THE SLAB OR WITHIN WALLS TO REMAIN. REMOVE CABLING AND CAP. REMOVE LOW VOLTAGE CABLING FROM TERMINATION BACK TO POINT OF ORIGIN. ALL CONDUIT AND CABLING ASSOCIATED WITH EXISTING VOICE/DATA/VIDEO/SECURITY EQUIPMENT SERVING THE AREAS NOT ASSOCIATED WITH THE LIBRARY SHALL BE PROTECTED AND MAINTAINED.
2. CONTRACTOR SHALL PROVIDE MANDATORY SITE SURVEYS OF ENTIRE BUILDING TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SHALL INVESTIGATE ALL CABLE ROUTING AND PATHWAYS. PROVIDE MULTIPLE CREWS FOR COMPREHENSIVE SITE INVESTIGATION AND TRACING & IDENTIFICATION OF EXISTING CABLES AND SYSTEMS. CONTRACTOR SHALL INCLUDE SUPPLEMENTAL SURVEYS TO DETERMINE ALTERNATIVE SOLUTIONS FOR INSTALLATION OF NEW CABLING.
3. ALL EQUIPMENT WHICH IS REMOVED SHALL BE TURNED OVER TO THE OWNER AND SHALL BE STORED ON SITE AS DIRECTED BY THE OWNER. ALL EQUIPMENT REFUSED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE. REMOVE FROM THE BUILDING AND THE CONSTRUCTION SITE, ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT TO BE RETAINED BY THE OWNER. DO NOT ABANDON IN PLACE ANY TELECOMMUNICATION COMPONENT, UNLESS OTHERWISE NOTED ON DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPOSPONSIBLE TO IDENTIFY, PROTECT AND MAINTAIN THE EXISTING TO REMAIN. THE EXISTING TO REMAIN TELECOM AND SECURITY DROPS AND ASSOCIATED CABLING SHALL NOT BE DISTURBED. ALL EXISTING COMMUNICATIONS AND SECURITY SYSTEMS IN AREAS NOT UNDER CONSTRUCTION SHALL REMAIN IN SERVICE AT ALL TIMES. SYSTEMS PASSING THROUGH AREAS OF CONSTRUCTION SHALL REMAIN OR SHALL BE SUITABLY RELOCATED, REROUTE CABLING AS NECESSARY. CONTRACTOR SHALL VERIFY SUCH EXISTING CONDITIONS PRIOR TO DEMOLITION, AND PROTECT AND MAINTAIN ALL EXISTING CABLING AND OUTLETS TO REMAIN. THE CONTRACTOR SHALL TRACE, IDENTIFY, DISCONNECT, REROUTE, RE-TERMINATE AND TEST EXISTIGN CABLING TO REMAIN CABLING.
5. ALL RECESSES, HOLES, AND BOX OPENINGS IN EXISTING WALLS FROM REMOVAL OF EQUIPMENT, FIXTURES AND DEVICES NOT COVERED BY NEW WORK SHALL BE INFILLED AND PATCHED. PROVIDE BLANK PAINTED OUTLET AND DEVICE COVERS FOR ALL REMOVED AND ABANDONED EXISTING WIRING DEVICES AND OUTLETS. PAINT COVERS TO MATCH ADJACENT WALLS.
6. ANY MATERIALS AND DEVICES NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR INDICATED ON THESE CONTRACT DRAWINGS THAT ARE REQUIRED FOR A COMPLETE FINISHED AND OPERATING INSTALLED SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL DETERMINE THE EXACT CABLE ROUTING AND CONNECTIONS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING CONDITIONS.
8. PROVIDE SUPPORTS FOR ALL EXISTING CABLING TO REMAIN. EXTEND EXISTING SUPPORTS AND HANGERS AND PROVIDE NEW J-HOOKS TO RE-SUPPORT EXISTING ITEMS TO REMAIN.
9. DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING WORK. IN AREAS TO BE RENOVATED, REMOVE ALL EXISTING WORK UNLESS OTHERWISE NOTED. WHEN AN ITEM IS INDICATED TO NE REMOVED, REMOVE ALL ASSOCIATED WORK BACK TO SOURCE. THE ITEMS IDENTIFIED TO BE REMOVED REPRESENT THE MAJOR ITEMS, GENERAL LOCATIONS OF WORK AND SYSTEMS ONLY. THEY DO NOT IDENTIFY ALL ITEMS TO BE REMOVED. INFORMATION SHOWN ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEENO OBTAINED FROM THE AVAILABLE BUILDING DRAWINGS AND GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL FIELD CONDITIONS IN DETAIL OR DIMENSIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. THE CONTRACTOR SHALL VISUALLY INSPECT ALL EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR PERFORMING THE INDICATED DEMOLITION WORK EVEN IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS.
10. NECESSARY OUTAGES OF ANY EXISTING SYSTEM SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVACED AND APPROVED BY THE OWNER. COORDINATE EXTEND OF DEMOLITION WITH NEW CONSTRUCTION. PERFORM ALL NECESSARY DEMOLITION IN ORDER TO FULLY AND PROPERLY INSTALL ALL NEW WORK, REGARDLESS OF WHETHER OR NOT IT IS SHOWN AND/OR NOTED.

TELECOMMUNICATIONS RISER DIAGRAM NOTES:

1. EXISTING TO REMAIN.
2. REMOVE EXISTING 66 BLOCKS AND CABLING.
3. PROVIDE 24 STRAND SINGLE MODE FIBER FROM FUSION SPLICE TO NEW RACK MOUNTED FIBER ENCLOSURE.
4. REMOVE EXISTING 110 BLOCKS AND CABLING.
5. REMOVE EXISTING PATCH PANELS AND CABLING.
6. PROVIDE RACK MOUNT FIBER ENCLOSURE.
7. PROVIDE 48 PORT CAT 6 PATCH PANEL.
8. PROVIDE TWO 4" CONDUITS BETWEEN ELECTRIC ROOM AND NEW MDF ROOM.
9. PROVIDE FUSION SPLICE. SPLICE AND EXTEND EXISTING RACK MOUNTED FIBER TO NEW MDF ROOM RACK.
10. PROTECT AND MAINTAIN EXISTING WALL MOUNTED AIR BLOWN FIBER ENCLOSURE AND CABLE. EXISTING TO REMAIN.
11. CUT AND COIL EXISTING STANDARD FIBER. MOUNT COIL ON WALL.
12. REMOVE EXISTING TELECOM RACK AND ALL ASSOCIATED CABLING AND HARDWARE, UNLESS OTHERWISE NOTED.



1 / T-300 TELECOMMUNICATIONS RISER DIAGRAM
SCALE: N.T.S.

USING AGENCY APPROVAL
Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WRIGHT No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

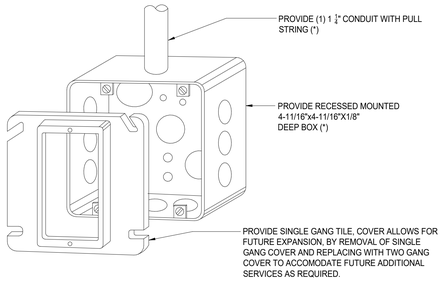
MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

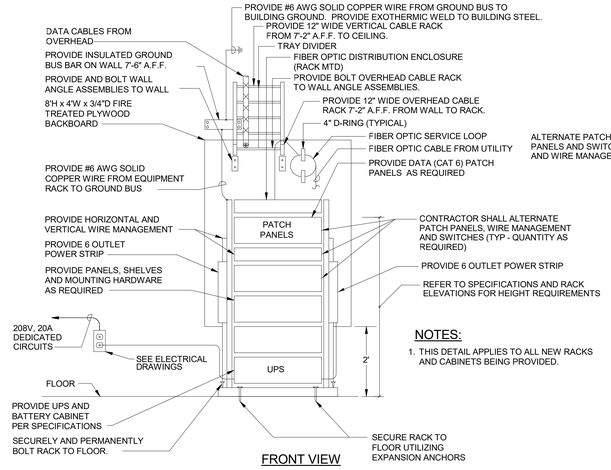
DRAWING RISER DIAGRAMS

SHEET T-300

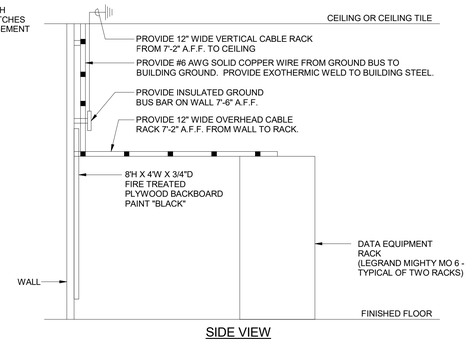
12/7/2022 11:56:16 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt



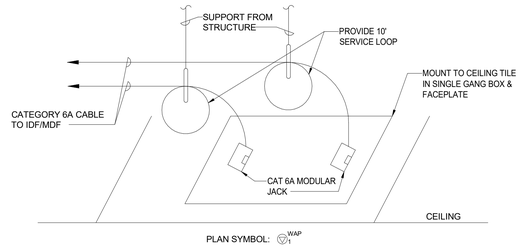
1 T-501 COMMUNICATIONS OUTLET DETAIL
SCALE: N.T.S.



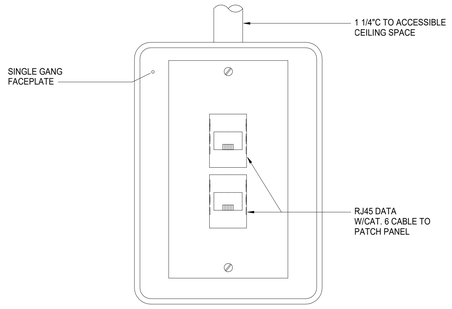
NOTES:
1. THIS DETAIL APPLIES TO ALL NEW RACKS AND CABINETS BEING PROVIDED.



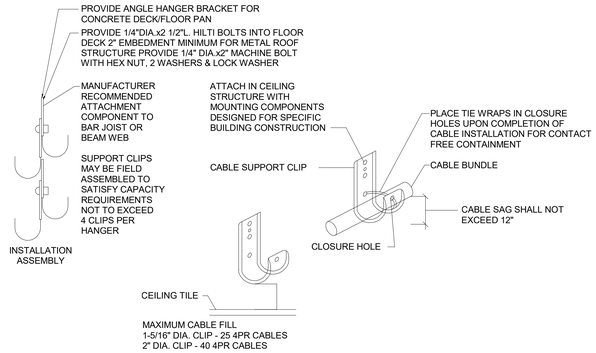
2 T-501 TELECOM EQUIPMENT RACK DETAIL
SCALE: N.T.S.



3 T-501 WIRELESS ACCESS CONNECTION DETAIL
SCALE: N.T.S.

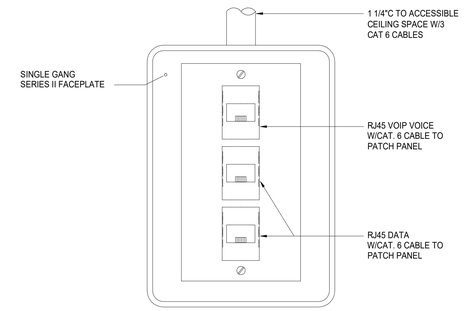


4 T-501 TYPICAL DUAL OUTLET ▽2
SCALE: N.T.S.



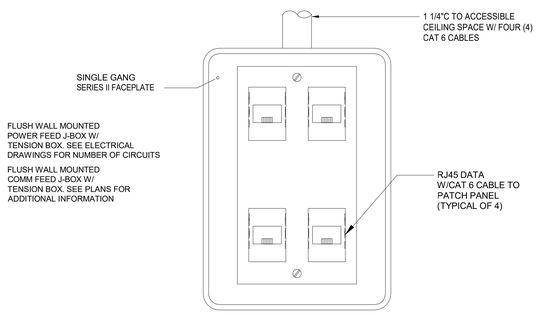
- PROVIDE J-HOOKS IN ALL AREAS NOT SERVED BY CABLE TARY.

5 T-501 HOOK CABLE SUPPORT
SCALE: N.T.S.

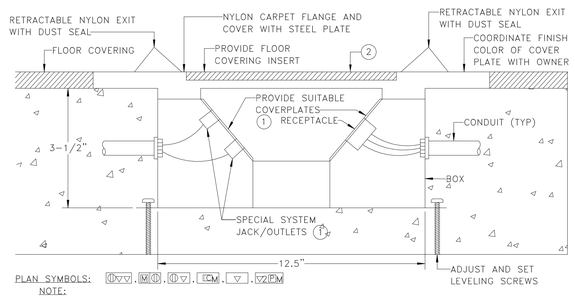


NOTE: ▽6 IS TWO ▽3

6 T-501 TYPICAL DATA/VOIP OUTLET ▽3
SCALE: N.T.S.

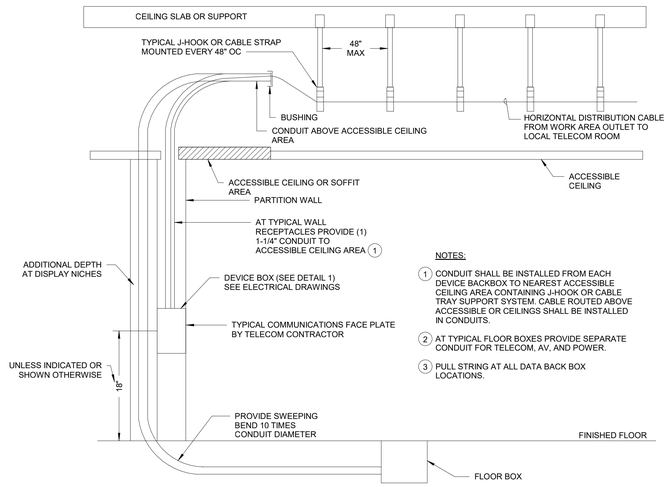


7 T-501 TYPICAL DUAL OUTLET DETAIL ▽4
SCALE: N.T.S.



NOTE:
1. PROVIDE TYPE AND QUANTITY OF DEVICES AS INDICATED ON TECHNOLOGY DRAWINGS.
2. PROVIDE FLOOR BOX AS FOLLOWS:
   - FOR SLAB ON GRADE APPLICATIONS USE WIREMOLD RFB-CI-1 OR APPROVED EQUAL.
   - FOR ELEVATED SLAB APPLICATIONS USE WIREMOLD RFB4-SS OR APPROVED EQUAL.
   - FOR TILE APPLICATIONS USE FLANGELESS ACTIVATION KIT - WIREMOLD S37BBTCAL OR APPROVED EQUAL.
   - FOR CARPED APPLICATIONS USE ACTIVATION KIT - WIREMOLD S36BBTCAL OR APPROVED EQUAL.

8 T-501 FLUSH FLOOR BOX DETAIL
SCALE: N.T.S.



NOTES:
1. CONDUIT SHALL BE INSTALLED FROM EACH DEVICE BACKBOX TO NEAREST ACCESSIBLE CEILING AREA CONTAINING J-HOOK OR CABLE TRAY SUPPORT SYSTEM. CABLE ROUTED ABOVE ACCESSIBLE OR CEILINGS SHALL BE INSTALLED IN CONDUITS.
2. AT TYPICAL FLOOR BOXES PROVIDE SEPARATE CONDUIT FOR TELECOM, AV, AND POWER.
3. PULL STRING AT ALL DATA BACK BOX LOCATIONS.

9 T-501 TYPICAL WALL AND FLOOR MOUNTED TELECOM/AV OUTLET BOX DETAIL
SCALE: N.T.S.

USING AGENCY APPROVAL
Name | Date | DGS APPROVAL | Date
Title | Project Manager | Date
Chief of FM&MD

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WILLIAM WHITE No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

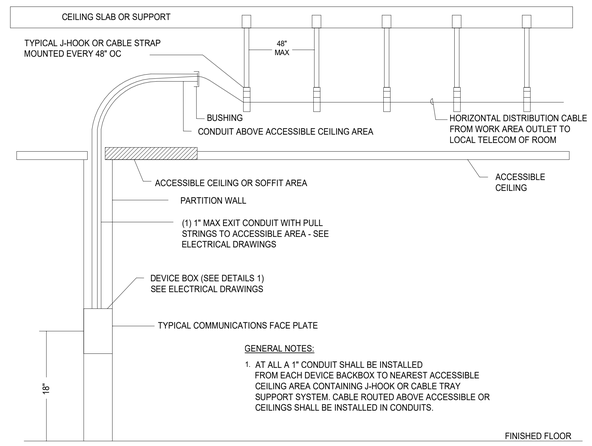
MHEC PROJECT CC-08-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
TELECOM DETAILS

SHEET
T-501

12/7/2022 11:56:18 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt

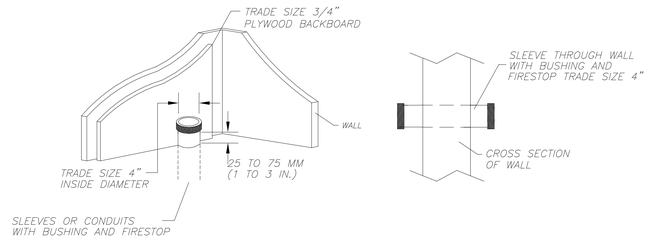


GENERAL NOTES:

1. AT ALL A 1" CONDUIT SHALL BE INSTALLED FROM EACH DEVICE BACKBOX TO NEAREST ACCESSIBLE CEILING AREA CONTAINING J-HOOK OR CABLE TRAY SUPPORT SYSTEM. CABLE ROUTED ABOVE ACCESSIBLE OR CEILINGS SHALL BE INSTALLED IN CONDUITS.

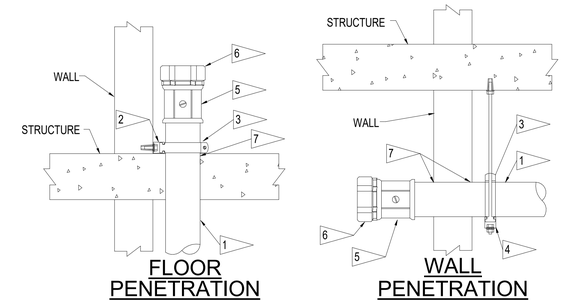
1 / T-502 TYPICAL WALL MOUNTED OUTLET DEVICE

SCALE: N.T.S.



2 / T-502 SLEEVE/CONDUIT DETAILS

SCALE: N.T.S.



KEYNOTES:

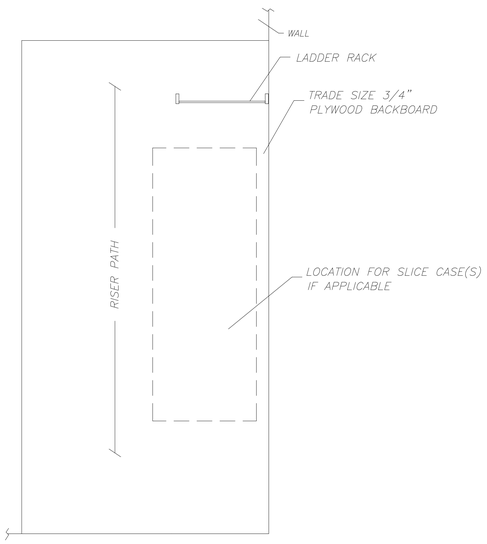
1. 4" EMT CONDUIT, USE COMPRESSION COUPLINGS AND FITTINGS UNLESS OTHERWISE NOTED.
2. 1-1/2"x1-1/2" 12 GA. KINDORF CHANNEL - ANCHOR SECURELY TO WALL.
3. 4" EMT STRAPS (KINDORF #C-105-4).
4. KINDORF CHANNEL AND STRAP SUPPORT - ANCHOR SECURELY TO DECK ABOVE.
5. 4" DIE CAST SET SCREW CONNECTOR (RACO #2646). FOR ALL CONDUIT SMALLER THAN 4", USE COMPRESSION CONNECTOR.
6. 4" PLASTIC INSULATING BUSHING (RACO #1416). INSTALL INSULATING, BONDING AND GROUNDING BUSHING AT CLOSET END OF CONDUIT.
7. FIRESTOP AS REQUIRED BY FIRE CODE.

GENERAL NOTES:

1. PENETRATE TELECOMMUNICATIONS ROOM 4" TO 8" MAXIMUM.
2. SIMILAR FOR ALL SIZE EMT CONDUITS.

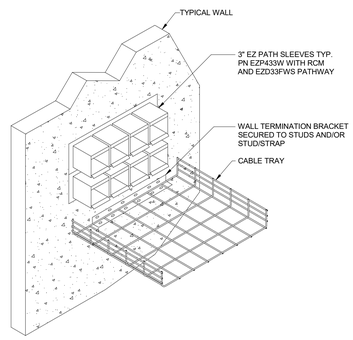
3 / T-502 RISER CONDUIT END FITTINGS DETAIL

SCALE: N.T.S.



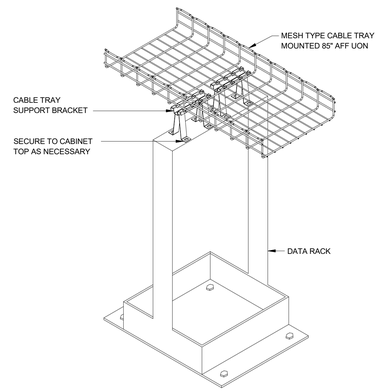
4 / T-502 RISER BACKBOARD ELEVATION

SCALE: N.T.S.



5 / T-502 CABLE TRAY & CABLE SLEEVE DETAIL

SCALE: N.T.S.



6 / T-502 DATA RACK CABLE TRAY DETAIL

SCALE: N.T.S.

USING AGENCY APPROVAL

Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of FM&ED: Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WEBB No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

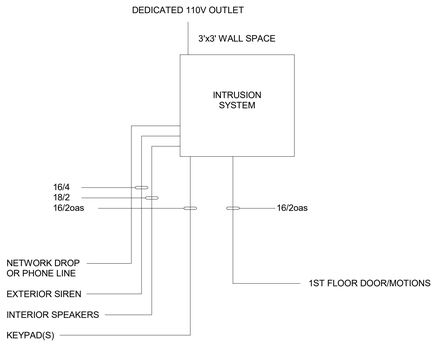
MHEC PROJECT CC-08-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

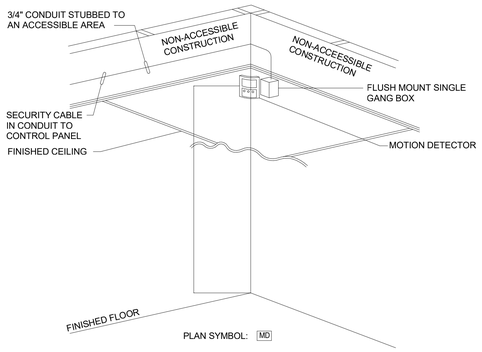
DRAWING
TELECOM DETAILS

SHEET
T-502

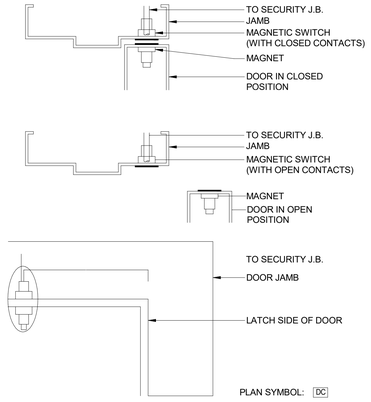
12/7/2022 11:56:19 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt



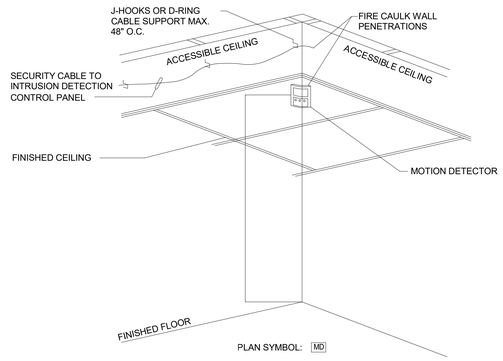
1 T-503 INTEGRATED INTRUSION ALARM RISER DIAGRAM
SCALE: N.T.S.



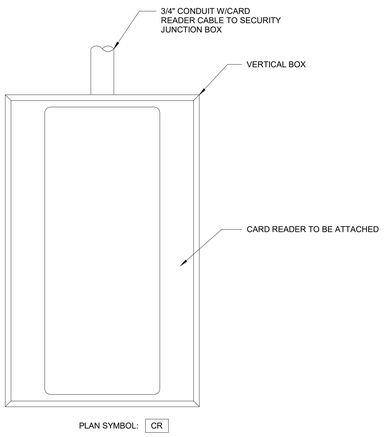
2 T-503 MOTION DETECTOR NON-ACCESSIBLE EXPOSED CEILING AREA'S ELEVATION TYPICAL DETAIL
SCALE: N.T.S.



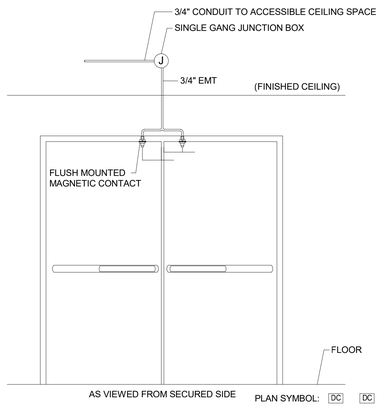
3 T-503 RECESSED ALARM CONTACT
SCALE: N.T.S.



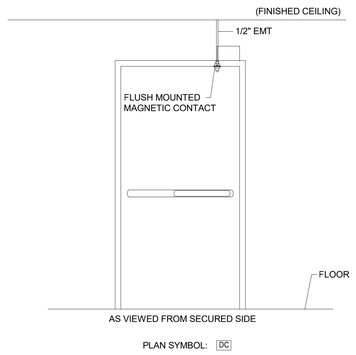
4 T-503 MOTION DETECTOR ACCESSIBLE CEILING ELEVATION TYPICAL DETAIL
SCALE: N.T.S.



5 T-503 TYPICAL VERTICAL MOUNTED CARD READER
SCALE: N.T.S.

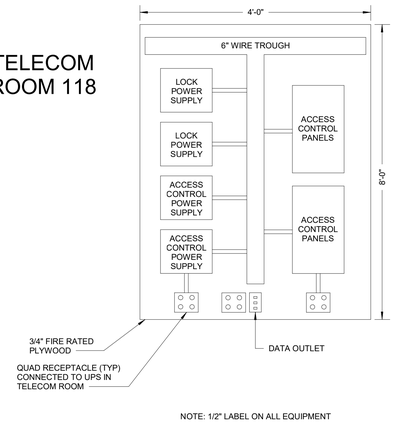


6 T-503 DOUBLE DOOR ALARM CONTACT PLACEMENT
SCALE: N.T.S.



7 T-503 SINGLE DOOR ALARM CONTACT PLACEMENT
SCALE: N.T.S.

TELECOM ROOM 118



NOTE: 1/2" LABEL ON ALL EQUIPMENT

8 T-503 SECURITY EQUIPMENT ELEVATION
SCALE: N.T.S.

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of PM&CD: Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WARD No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

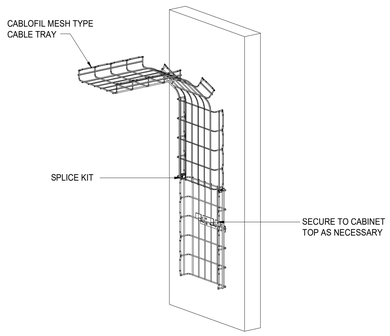
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

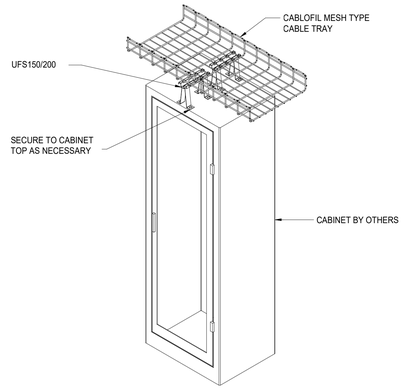
DRAWING
TELECOM DETAILS

SHEET
T-503

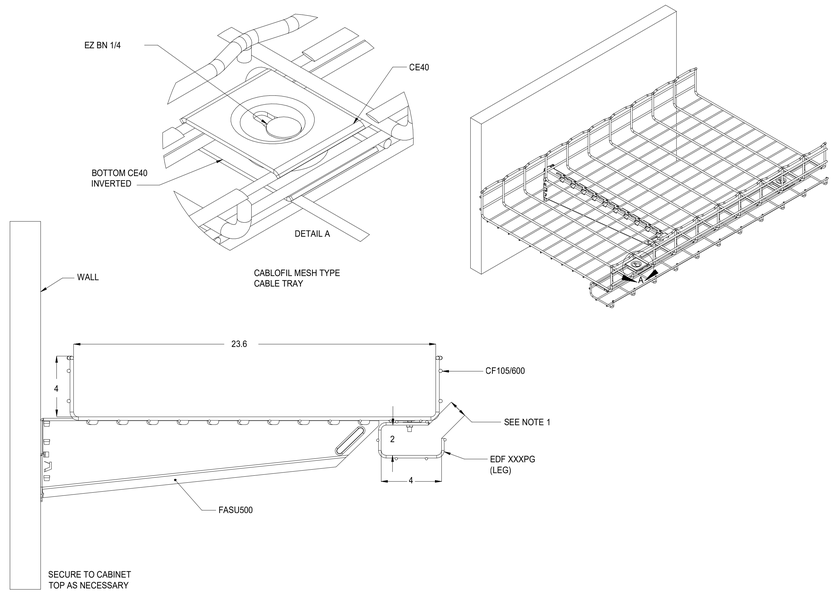
12/7/2022 11:56:20 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt



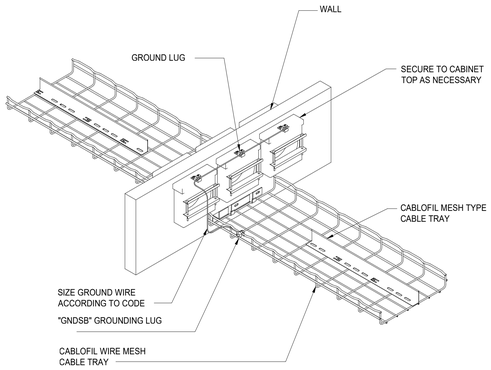
1 T-504 CF MESH TYPE CABLE TRAY VERTICAL OUTSIDE TO WALL TRANSITION
SCALE: N.T.S.



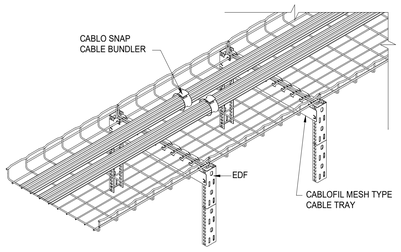
2 T-504 CABLE TRAY TO EQUIPMENT RACK DETAIL
SCALE: N.T.S.



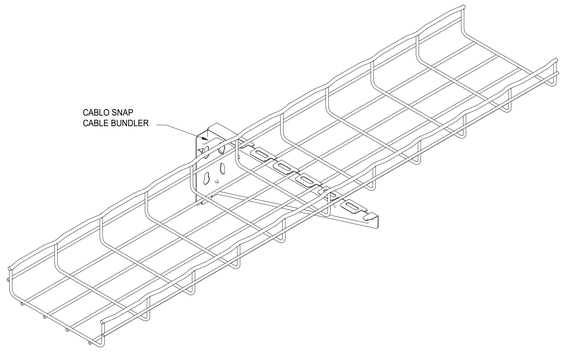
3 T-504 CF105/600 w/CFG50/100 MESH TYPE CABLE TRAY ON FASU500 WALL ASSEMBLY
SCALE: N.T.S.



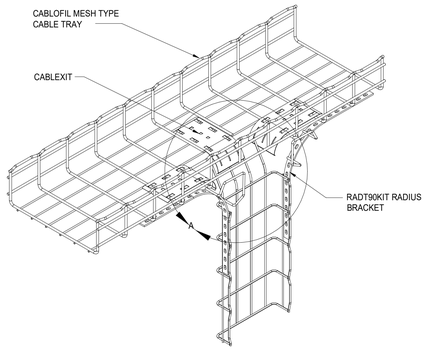
4 T-504 MESH TYPE CABLE TRAY WITH MULTI-WALL PENETRATIONS
SCALE: N.T.S.

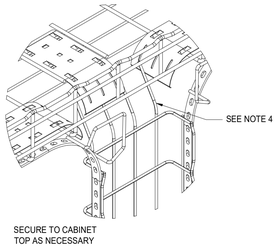


5 T-504 CABLEOSNAP TRAY DETAIL
SCALE: N.T.S.



6 T-504 FAS-U MESH TYPE CABLE TRAY WALL BRACKET-ASSEMBLY
SCALE: N.T.S.





7 T-504 CF MESH TYPE CABLE TRAY WITH BOTTOM EXIT
SCALE: N.T.S.

USING AGENCY APPROVAL

Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR

REVISIONS

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WHITE No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

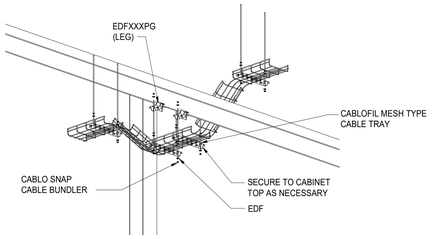
MHEC PROJECT CC-08-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

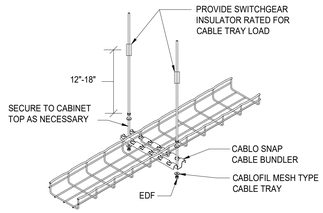
DRAWING
TELECOM DETAILS

SHEET
T-504

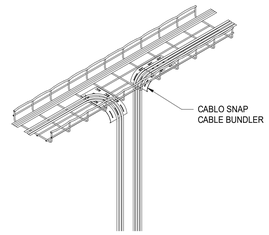
12/7/2022 11:56:21 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt



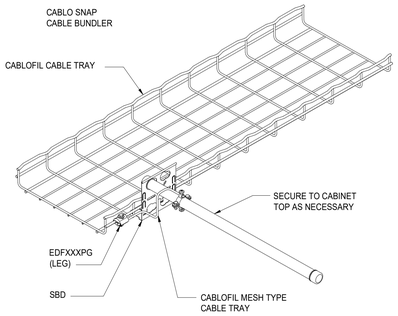
1 T-505 ELEV CHANGE OBSTACLE
SCALE: N.T.S.



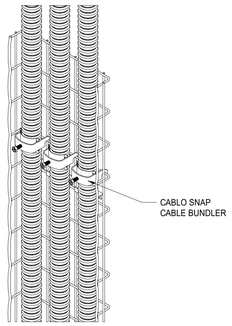
2 T-505 TRAPEZE WITH TRAY
SCALE: N.T.S.



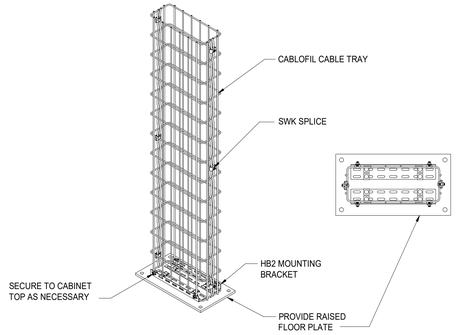
3 T-505 CABLE TRAY
SCALE: N.T.S.



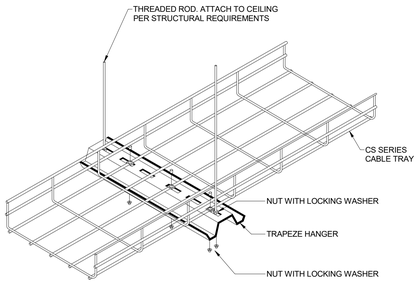
4 T-505 FAS-U MESH TYPE CABLE TRAY WITH SMALL CONDUIT SBD BRACKET
SCALE: N.T.S.



5 T-505 CABLE CLAMP WITH MC
SCALE: N.T.S.

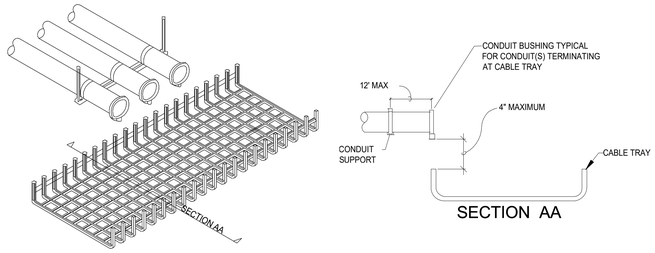


6 T-505 VERTICAL CABLE TRAY FACE TO FACE MOUNTED ON FLAT PLATE
SCALE: N.T.S.



NOTE: PROVIDE TRAPEZE HANGER MINIMUM EVERY 8'.

7 T-505 CABLE TRAY TRAPEZE HANGING DETAIL
SCALE: N.T.S.



CONDUIT TERMINATION AT CABLE TRAY ISOMETRIC VIEW

DETAIL NOTES:

1. DETAIL TYPICAL FOR ALL TELECOMMUNICATION / DATA CONDUITS FROM BACKBOARDS TERMINATING AT CABLE TRAY, UNLESS NOTED OTHERWISE
2. TELECOMMUNICATIONS/DATA CONDUITS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. PROVIDE CONDUITS AS INDICATED ON PLANS OR WITHIN SPECIFICATIONS.
3. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL REUIREMENTS.

8 T-505 TELECOMMUNICATIONS/DATA CONDUIT(S) TERMINATING AT CABLE TRAY DETAIL
SCALE: N.T.S.

USING AGENCY APPROVAL
Name Date
Title DGS APPROVAL
Project Manager Date
Chief of FM&AD Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WEBB No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

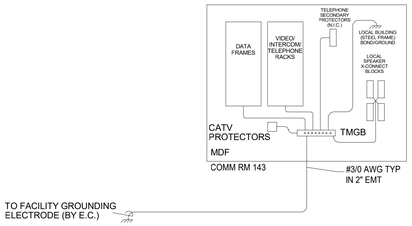
MHEC PROJECT CC-09-473

PROJECT COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING TELECOM DETAILS

SHEET
T-505

12/7/2022 11:56:22 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Revs - TECH R21.rvt

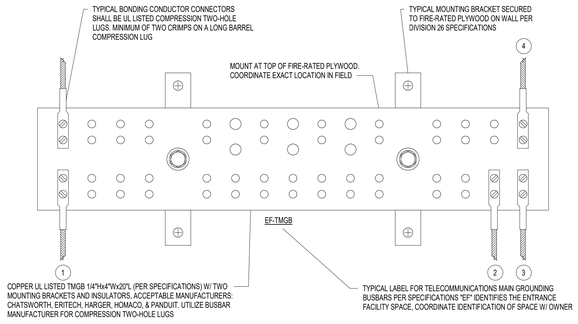


NOTES:
TGB = TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB = TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TBB = TELECOMMUNICATIONS BONDING BACKBONE IS 3/0 AWG
ALL BONDING CABLE IS #6AWG STRANDED COPPER W/GREEN JACKET
INNERCLOSET BONDING CABLE STRAPPED TO INTERCOM BACKBONE CABLE AS A COUPLED BONDING CONDUCTOR (CBC)

PRIMARY TELEPHONE UTILITY (C.O.) PROTECTION BY VERIZON (LOCATED IN MAIN ELECTRICAL ROOM) (NOT ILLUSTRATED)
LOUDSPEAKER CIRCUIT SHIELDS ARE GROUNDED AT TGB'S OR TMGB RESPECTIVELY
CAFETERIA, GYMNASIUM, AUDITORIUM & MISC. SOUND SYSTEM CABINETS ARE LOCALLY GROUNDED VIA AC POWER SYSTEM (NOT ILLUSTRATED)

TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM DIAGRAM

1 / T-506 SCALE: N.T.S.



TELECOM MAIN GROUNDING BUSBAR DETAIL NOTES:

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
2. BCT TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUNDING BAR. UTILIZE LISTED CONNEDCTOR TO PANELBOARD GROUNDING BUS.
4. BCT TO TELECOMMUNICATIONS JUNCTION BOXES AND APPLICABLE EQUIPMENT. DAISY CHANING OF BCT AT RELAYS IS NOT ACCEPTABLE. EACH DEVICE IS TO HAVE A DEDICATED HOMERUN BCT BACK TO THE TMGB, SEE DETAILS.

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	#6
14'-20'	#4
21'-26'	#3
27'-33'	#2
34'-41'	#1
42'-52'	#1/0
53'-66'	#2/0
GREATER THAN (>) 66'	#3/0

GROUNDING & BONDING RISER GENERAL NOTES:

1. REFER TO GROUNDING AND BONDING IN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
4. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE COPPER LUG AND THE BUSBAR.
5. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI.TIA/EIA-606-A.
6. BONDING CONDUCTORS SHALL BE LABELED W/ IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-60-A) ID LABEL: "IF THIS CONDUCTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER.
7. CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   - A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   - B. THE TMGB AND ALL APPLICABLE EQUIPMENT.

TELECOM MAIN GROUNDING BUSBAR DETAIL

2 / T-506 SCALE: N.T.S.

USING AGENCY APPROVAL
Name: Date:
Title: DGS APPROVAL
Project Manager: Date:
Chief of FM&AD: Date:

MARK	DATE	BY	DESCR

REVISIONS

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM® ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

STATE OF MARYLAND JAMES WALTER WEBB No. 22868 PROFESSIONAL ENGINEER

PERMIT SET SUBMISSION

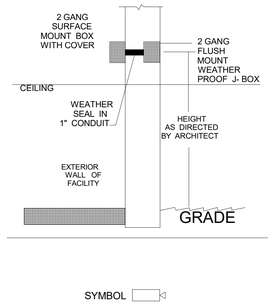
MHEC PROJECT CC-09-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
TELECOM DETAILS

SHEET
T-506

12/7/2022 11:56:23 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt



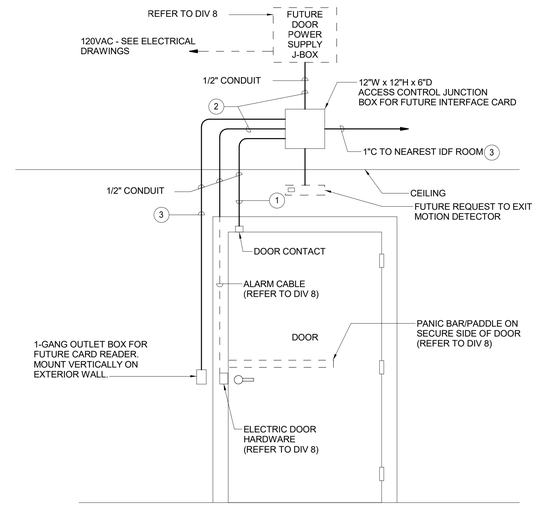
1 / T-507 EXTERIOR SECURITY CAMERA
SCALE: N.T.S.

SECURITY CABLES/CONDUCTORS		
REF.	FUNCTION	CABLE/CONDUCTOR TYPE & SIZE
1A	ADDRESSABLE LOOP	16AWG, WEST PENN 25225B
1D	DOOR SWITCH & TEMP SENSOR CIRCUIT	#18AWG TWISTED PAIR CABLE UNSHIELDED WEST PENN 25224B
1K	KEYPAD CIRCUIT	#16AWG 4 CONDUCTOR WEST PENN 25245
1S	SIREN CIRCUIT	#18AWG TWISTED PAIR CABLE UNSHIELDED WEST PENN 25224B
CR	CARD READER INTERFACE	6 CONDUCTOR 22AWG WEST PENN 25270B
ES	ELECTRIC STRIKE INTERFACE	1 PAIR TWISTED 16AWG FOR POWER WEST PENN 25225B/1 PAIR TWISTED 22AWG FOR SIGNAL WEST PENN 25291B
RTX	REQUEST TO EXIT INTERFACE	#18AWG TWISTED PAIR CABLE UNSHIELDED WEST PENN 25224B
CD	RS232 COMMUNICATION DATA CONTROLLER	2 PAIR 22AWG WEST PENN 25510B
DC	DOOR CONTACT INTERFACE	1 PAIR 16AWG AC POWER WEST PENN 25225B
P	TEMP SENSOR POWER	1 PAIR 16AWG AC POWER WEST PENN 25225B

WIRING SYMBOLS

P	POWER CIRCUIT: P
1A	ADDRESSABLE LOOP: 1A
1D	DOOR SWITCH/TEMP SENSOR CIRCUIT: 1D
1K	KEYPAD CIRCUIT: 1K
1S	SIREN CIRCUIT: 1S

2 / T-507 SECURITY CABLES/CONDUCTORS LEGEND
SCALE: N.T.S.

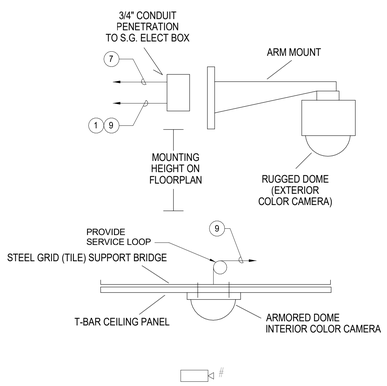


PLAN SYMBOL: CR

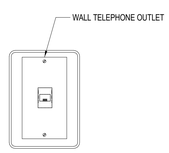
ACCESS CONTROL SYSTEM CARD READER DETAIL DRAWING NOTES:

1. DOOR CONTACT: ONE 4 CONDUCTOR #22 AWG STRANDED.
2. FUTURE LOCK POWER PROVIDE PULL STRING.
3. FUTURE CARD READER PROVIDE PULL STRING.

3 / T-507 ACCESS CONTROL SYSTEM CARD READER DETAIL
SCALE: N.T.S.



4 / T-507 TYP. CCTV CAMERA MOUNTING DETAILS
SCALE: N.T.S.



5 / T-507 SECURITY SYSTEM EMERGENCY PHONE STATION
SCALE: N.T.S.

USING AGENCY APPROVAL
Name: Date
Title: DGS APPROVAL
Project Manager: Date
Chief of PM&CD: Date

MARK	DATE	BY	DESCR
REVISIONS			

Professional Certification: I hereby certify that these documents were reviewed by me, & I am a duly licensed professional engineer under the laws of the State of Maryland License #22868, Expiration: 10-14-2024

DATE	12.09.2022
PROJECT	21248-00
DESIGNED	JW
DRAWN	JD
CHECKED	JW

RRMM®
ARCHITECTS, PC
2900 South Quincy Street, Suite 710
Arlington, Virginia 22206
(703)998-0101

PERMIT SET SUBMISSION

MHEC PROJECT CC-08-473

PROJECT
COLLEGE OF SOUTHERN MARYLAND
HEALTH TECHNOLOGY BUILDING RENOVATION
8730 MITCHELL ROAD, P.O. BOX 910
LA PLATA, MD 20646

DRAWING
SECURITY DETAILS

SHEET
T-507

12/7/2022 11:56:24 AM BIM 360://21248-00 CSM Health Technology Building/CSM Health Tech Building Reno - TECH R21.rvt