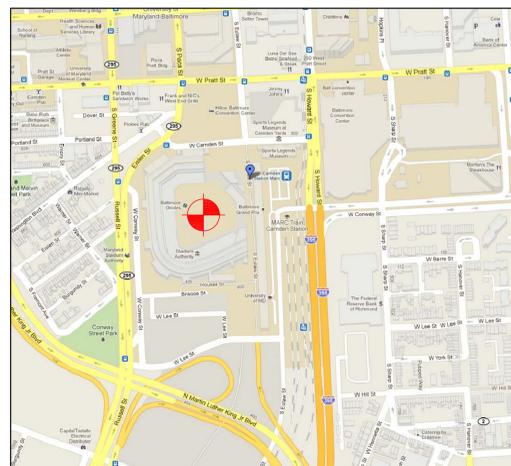


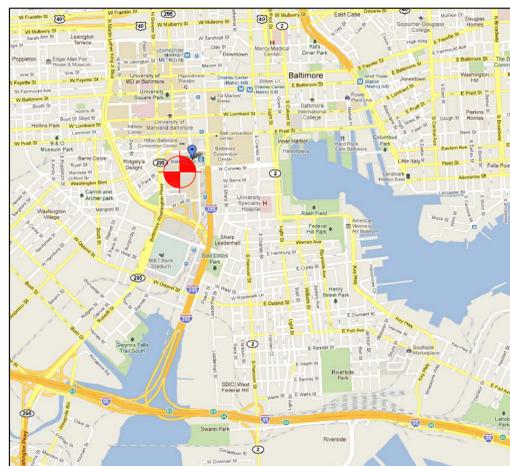
THE MARYLAND STADIUM AUTHORITY ORIOLE PARK AT CAMDEN YARDS SERVICE LEVEL WOMEN'S LOCKER ROOM RENOVATION

333 WEST CAMDEN STREET | BALTIMORE, MARYLAND | 21201

OWNER ADDRESS:
MARYLAND STADIUM AUTHORITY
333 WEST CAMDEN STREET - SUITE 500
BALTIMORE MD 21201



LOCATION MAP - NTS



VICINITY MAP - NTS

ARCHITECT

SCHAMU MACHOWSKI + PATTERSON
ARCHITECTS, INC.
1100 Cathedral Street
Baltimore, MD 21201
TEL 410-685-3582

INTERIOR DESIGN

AUMEN ASNER, INC.
100 NORTH CHARLES STREET, SUITE 910
BALTIMORE, MD 21201
TEL 410-837-2767

MECHANICAL & ELECTRICAL ENGINEER

BURDETTE KOEHLER MURPHY
AND ASSOCIATES
6300 Blair Hill Lane, Suite 400
Baltimore, MD 21209
TEL 410-323-0600

DRAWING LIST

CS COVER SHEET

ARCHITECTURAL

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- G1.2 CODE ANALYSIS, AREA OF WORK EGRESS PLAN
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NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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PROJECT
**OPCY SERVICE LEVEL
WOMEN'S LOCKER ROOM RENOV.**
333 W. CAMDEN ST. | BALTIMORE, MD 21201

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.
Name: Walter Schamu
License: 3755-R
Expiration: May 2, 2022

SEAL

DRAWING TITLE
COVER SHEET

100% CONSTRUCTION DOCUMENTS

DRAWN	ZSS/LM	PROJECT #	20009.00
CHECKED	ZSS	DRAWING #	
REVIEWED	REM		
DATE	10/14/2020		
SCALE	AS NOTED		

CS

ABBREVIATIONS			
AFF	ABOVE FINISH FLOOR	JT	JOINT
AC	ACOUSTIC(AL)	JOH	JAMB OVERALL HEIGHT
ACT	ACOUSTICAL TILE	JOW	JAMB OVERALL WIDTH
ADH	ADHESIVE	LAM	LAMINATE(D)
ADJ	ADJUSTABLE	LF	LINEAR FOOT (FEET)
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
ALUM	ALUMINUM	MB	MARKER BOARD
AND		MAT	MATERIAL
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECT(URAL)	MECH	MECHANICAL
@		MEMB	MEMBRANE
AVG	AVERAGE	MTL	METAL
		MIN	MINIMUM
BLKG	BLOCKING	MISC	MISCELLANEOUS
BLDG	BUILDING	MB	MOISTURE BARRIER
BLKHD	BULKHEAD	MMA	METHYL METHACRYLATE ACRYLIC
CAB	CABINET	MMARB	METHYL METHACRYLATE ACRYLIC
CPT	CARPET		
CLG	CEILING	MTD	MOUNTED
		MULL	MULLION
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	N	NORTH
CF/GI	CONTRACTOR FURNISHED / GOVERNMENT INSTALLED	NTD	NOTED
		NIC	NOT IN CONTRACT
COL	COLUMN	NTS	NOT TO SCALE
CONST	CONSTRUCTION		
CONT	CONTINUOUS	OFF	OFFICE
CG	CORNER GUARD	OC	ON CENTER
CORR	CORRIDOR	OPG	OPENING
CR	CARD READER		
CTR	COUNTER	PT	PAINT
		PTD	PAINTED
DP	DAMPROOFING	PNL	PANEL
DET	DETAIL	PTDP	PAPER TOWEL DISPENSER
DIM	DIMENSION	PLAM	PLASTIC LAMINATE
DISP	DISPENSER		
DR	DOOR		
DN	DOWN	RB	RUBBER BASE
DWG	DRAWING	REINF	REINFORCE(MENT)(ING)
DRAW	DRAWER	REQ	REQUIRED
		RT	RESILIENT TILE
EA	EACH	RM	ROOM
ELEC	ELECTRICAL	SCHED	SCHEDULE
ELEV	ELEVATOR	SD	SOAP DISPENSER
ENT	ENTRANCE	SEC	SECTION
EPOX	EPOXY FLOORING	SH	SHEET
EPRB	EPOXY ROLLED BASE	SM	SHEET METAL
EQ	EQUAL	SHLVG	SHELVING
EQUIP	EQUIPMENT	SIM	SIMILAR
EXIST	EXISTING	SD	SOAP DISPENSER
EXT	EXTERIOR	S	SOUTH
		SPEC	SPECIFICATION(S)
FLG	FLASHING	SQ	SQUARE
FL	FLOOR	SS	STAINLESS STEEL
FD	FLOOR DRAIN	STD	STANDARD
FLUOR	FLUORESCENT	STL	STEEL
FT	FOOT OR FEET	STR	STRUCTURAL
FRP	FIBERGLASS REINFORCED PLASTIC	SUBFL	SUBFLOOR
		SUSP	SUSPEND(ED)
GALV	GALVANIZED	SV	SHEET VINYL
GA	GALVE	SVB	SHEET VINYL ROLLED BASE
GEN	GENERAL		
GF/GI	GOVERNMENT FURNISHED / GOVERNMENT INSTALLED	TEMP	TEMPERED
GF/CI	GOVERNMENT FURNISHED / CONTRACTOR INSTALLED	TYP	TYPICAL
GL	GLASS/GLAZING	UNO	UNLESS NOTED OTHERWISE
GYP	GYP SUM		
GWB	GYP SUM WALLBOARD	VB	VINYL BASE
		VERT	VERTICAL(LY)
HC	HANDICAPPED, HOLLOW CORE	VCT	VINYL COMPOSITION TILE
HDW	HARDWARE		
HM	HOLLOW METAL	WP	WATERPROOF
		W	WEST/WIDE/WIDTH
INCL	INCLUDE	W/	WITH
INSUL	INSULATION	W/O	WITHOUT
INT	INTERIOR	WD	WOOD
		WB	WHITE BOARD



MATERIAL KEY	
	CONCRETE
	PLYWOOD
	FINISH WOOD
	WOOD FRAMING/ BLOCKING
	GLASS (LARGE SCALE)
	STEEL (LARGE SCALE)
	GYP SUM BOARD
	RIGID INSULATION
	SOUND INSULATION

SYMBOL KEY	
	DETAIL NUMBER / EXTERIOR ELEVATION NO. SHEET NO. PARTITION TYPE
	DETAIL NUMBER SHEET NUMBER
	DATUM ELEVATION
	ROOM NAME ROOM NUMBER
	CEILING HEIGHT
	ADA ACCESSIBLE
	DEMOLITION NOTE
	NEW WORK NOTE
	INTERIOR ELEVATION NO. (SINGLE VIEW) SHEET NUMBER
	INTERIOR ELEVATION NO. SHEET NUMBER
	DETAIL NUMBER (SMALL CONDITIONS) SHEET NUMBER
	DOOR NUMBER

A5 SERVICE LEVEL KEY PLAN
3/32"=1'-0"

NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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BALTIMORE, MD 21201
TEL: 410-837-2767

PROJECT
OPCY SERVICE LEVEL
WOMEN'S LOCKER ROOM RENOV.
333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION SEAL
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.
Name: Walter Schamu
License: 3715-R
Expiration: May 2, 2022

DRAWING TITLE	
GENERAL INFORMATION, SERVICE LEVEL KEY PLAN	
DRAWN	ZSS/LM
PROJECT #	20009.00
CHECKED	ZSS
DRAWING #	
REVIEWED	REM
DATE	10/14/2020
SCALE	AS NOTED

G1.1

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

CODE ANALYSIS

- A. APPLICABLE CODES
 1. BUILDING CODES - 2018 IBC
 2. MECHANICAL CODES - 2018 IMC
 3. PLUMBING CODES - 2018 IPC
 4. ELECTRICAL CODES - 2017 NEC
 5. ENERGY CONSERVATION CODES - 2018 IECC
 6. FIRE CODE - 2018 IFC
 7. ACCESSIBILITY CODES - 2010 ADA STANDARDS & COMAR 09.12.53
 8. GREEN CONSTRUCTION CODE - 2012 IGCC
- B. BUILDING USE / CONSTRUCTION CLASSIFICATION:
 EXISTING USE GROUP: "A5" STADIUM
 PROPOSED USE GROUP: NO CHANGE
- C. TYPE OF CONSTRUCTION:
 EXISTING: TYPE I-B
 PROPOSED: NO CHANGE
- D. BUILDING HEIGHT AND AREA
 NO PROPOSED CHANGE TO EXISTING BUILDING HEIGHT OR AREA.
- E. FIRE PROTECTION SYSTEMS:
 BUILDING IS FULLY SPRINKLERED
- F. AREA OF WORK MEANS OF EGRESS
1. OCCUPANT LOAD (IBC T1004.1.2)
 LOCKER ROOM AREA: 1,060 SF @ 50SF/OCC = 22 OCC
 PLAYER KITCHEN 1.25.03
 CORRIDOR 1.25.07
 ADA RESTROOM 1.26.15
 ADA RESTROOM 1.26.16
 WOMENS LOCKER ROOM 1.26.17
 ADA SHOWER ROOM 1.26.18
 STORAGE 1.26.07: 287 SF @ 300SF/OCC = 1 OCC
 STORAGE 1.25.08: 145 SF @ 300 SF/OCC = 1 OCC
- MAXIMUM COMMON PATH OF TRAVEL (IBC T1006.2.1)
 OCCUPANCY B, WITH SPRINKLER SYSTEM = 100 FEET
 PROPOSED MAXIMUM = 89'-9"
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE (IBC T1017.2)
 OCCUPANCY B, WITH SPRINKLER SYSTEM = 300 FEET
 PROPOSED MAXIMUM = 189'-8"
- MAXIMUM DEAD END CORRIDOR LENGTH (IBC 1020.4)
 OCCUPANCY B = 50 FEET
 PROPOSED MAXIMUM = 40'-4"
- EGRESS WIDTH REQUIREMENTS:
 DOORS @ 0.2"/OCC.: 24"0.2 = 4.8" MIN. DOOR WIDTH
 CORRIDORS @ 0.3"/OCC.: 24"0.3 = 7.2" MIN. CORRIDOR WIDTH
- G. ACCESSIBILITY
1. EXISTING BUILDING PROVIDES ACCESSIBLE ROUTES VIA CORRIDORS, RAMPS, AND ELEVATORS TO GRADE. ALTERATIONS MAKE NO IMPACT ON THE ACCESSIBILITY OF EXISTING ACCESSIBLE ROUTES
 2. ALTERED AREAS COMPLY WITH 2010 ADA AND MARYLAND ACCESSIBILITY CODE (COMAR 09.12.53)

LIFE SAFETY PLAN KEY

- INDICATES PATH OF TRAVEL TO EGRESS (PTE)
MAX DISTANCE ALLOWED: 300'
- INDICATES COMMON PATH OF TRAVEL (CPT)
MAX DISTANCE ALLOWED: 100'
- ALTERNATE EGRESS PATH
- ◆---◆ DEAD END CORRIDOR LENGTH (AREA OF WORK)
- ▲ EXIT
- # AREA OF WORK OCCUPANT LOAD
- # OCCUPANT LOAD
- # CAPACITY PROVIDED



F5 AREA OF WORK EGRESS PLAN

3/32"=1'-0"

NO	REVISION / SUBMISSION	DATE
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	100% CD SUBMISSION	10/14/2020

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PROJECT
**OPCY SERVICE LEVEL
 WOMEN'S LOCKER ROOM RENOV.**
 333 W. CAMDEN ST. | BALTIMORE, MD 21201

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 Name: Walter Schamu
 License: 3715-R
 Expiration: May 2, 2022

DRAWING TITLE
**CODE ANALYSIS, AREA OF WORK
 EGRESS PLAN**

DRAWN	ZSS/LM	PROJECT #	20009.00
CHECKED	ZSS	DRAWING #	
REVIEWED	REM		
DATE	10/14/2020		
SCALE	AS NOTED		

G1.2

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

ARCHITECTURAL SPECIFICATIONS

01 10 00 - SUMMARY

- 1. Project Scope and Intent: The project is comprised of modifications within service level of the Oriole Park baseball stadium at Camden Yards for the Maryland Stadium Authority. Work includes selective demolition of existing balconies and modification to an existing kitchenette and storage rooms for the creation of a new female locker room, and new accessible, single user toilet and shower rooms. The stadium is to be considered occupied during construction and the General Contractor shall protect adjacent areas from dust and damage as necessary. The primary work area is approximately 1,875 SF.
2. This project proposes NO changes to the current Use, Occupancy, or Occupant Load. Existing mechanical, plumbing, fire protection, and electrical systems will be modified to suit the new spatial configurations per the corresponding plans included in these drawings.

01 15 00 - GENERAL REQUIREMENTS

- 1. Project documents include 30X42 drawings for Architectural, Mechanical, Electrical, and Fire Protection Work. Specifications are on Drawings.
2. The Owner's Representative for this project shall be: Phil Hutson, 410-333-1560, philh@mdstad.com
3. Construction work will be required to coordinate with occupied spaces. Maintain existing entrances, exits, and egress pathways at all times as required by building codes.
4. Contractor's access and use of the project site shall be closely coordinated with designated Owner's Representative. Contractors shall limit the use of Project site to areas within designated work areas in accordance with an agreed upon schedule and sequencing plan. Do not access or disturb portions of the building or Project area beyond those areas and locations specifically designated in these documents or approved separately in writing by the Owner.
5. Contractor shall photograph the work spaces to establish a record of the existing conditions.
6. Protect and maintain all portions of the existing building and site affected by construction operations in good order. Damage and/or alteration of existing materials and building components shall be documented and made known to the Owner and Architect. Make repairs and provide restorative work as necessary in accordance with Owner's directions, should damage or disturbance arise caused by construction operations.
7. Contractor shall provide the Owner a full project schedule detailing construction operations and sequence of work from start to finish. Provide not less than one week notification to the Owner of activities that may deviate from the project schedule and that which may affect the Owner's operations in any way.
8. Provide not less than one week notification to the Owner of activities that may result in high levels of noise, odors, or other disruptions, such as Utility shutdowns. Limit and contain the levels of dust and debris that may be generated by construction operations.
9. Owner and Contractor shall agree to work hours and any restrictions thereto. Facility will be available to the Contractor at any daytime for work activities outside of Owner's events and shall coordinate work around any Owner events.
10. Cooperate and coordinate with Owner's operations to determine acceptable site access locations, vehicular drop-off for personnel and loading and unloading of materials, locations for refuse containers, etc. Comply with City laws and ordinances pertaining to use of public ways, streets and sidewalks.
11. Contractor shall comply with all local, state, and federal safety, performance, and building code requirements.
12. Contractor shall carefully survey work areas and compare to project requirements described on contract documents. Contractor shall provide written notice to the Owner and Architect of discrepancies found and submit a Request For Information (RFI) and direction prior to executing work.
13. At the start of construction, coordinate with Owner's security representatives to review site access and security requirements, such as sign-in forms and identification badges, for Contractor and Subcontractor. Obtain Owner-issued identification badges may be required for this project for all employees within the premises. Maintain a daily log of all employees who have been issued badges or who access the site. Return all badges at the completion of construction. Comply with Owner's requirements throughout for site access and restrictions.
14. Provide to Owner and Architect a contact information sheet listing Contractor's and Sub-Contractor's key project personnel; include names, company names, mailing address, office and cellular phone numbers, and email addresses.

01 25 00-SUBSTITUTION PROCEDURES:

- 1. References to manufacturers or processes in the drawings and specifications are meant to be descriptive and not restrictive. Substitutions will be considered if product data, test reports and other descriptive information, sufficient in detail to permit comparison with referenced materials are submitted.
2. All substitutions must be submitted to the Owner and Architect prior to installation.

01 26 00 - CONTRACT MODIFICATIONS:

- 1. Owner Initiated Proposal Requests will be accompanied by a detailed description of proposed changes in the Work which may require adjustment to the Contract Sum or Contract Time. This may include supplemental Drawings and Specifications. Within five (5) days of receipt of Proposal Request, submit a quotation estimating the cost adjustments to the Contract Sum and the Contract Time to execute the change. Include a breakdown of material quantities, labor and supervision costs, and an updated construction schedule.
2. Contractor Initiated Proposal Requests shall be submitted to the Owner and Architect including a statement outlining the reasons for the change and the effects of the change on the Work, material quantities, labor and supervision, and an updated construction schedule.
3. Upon Owner's approval of Work changes, Contractor shall prepare a Change Order for signatures of Owner, Contractor, and Architect on AIA Document G701.
4. Owner may issue a Construction Change Directive instructing Contractor to proceed with a change in the Work for subsequent inclusion in a Change order. In such cases, Contractor shall submit documentation of proposed changes to contract cost or time as soon as is practical.

01 29 00 - PAYMENT PROCEDURES:

- 1. Submit a Schedule of Values to the Owner and Architect at the earliest possible date, but not later than two weeks following Notice to Proceed. Format Schedule of Values consistent with AIA Document G702. Coordinate Schedule of Values with contents of Values with project specifications.
2. Submit Applications for Payment to the Owner in PDF format, in accordance with Owner's Contract and schedule requirements, covering a one month period. Use AIA Documents G702 and G703 to format Applications for Payment. The initial Application for Payment shall include the following:
a. List of subcontractors.
b. Schedule of values.
c. Contractor's construction schedule (preliminary if not final).
d. Schedule of unit prices.
e. Submittal schedule (preliminary if not final).
f. Certificates of insurance and insurance policies.
g. Other documents as requested and required by Owner.
3. After completing Project closeout requirements, submit final Application for Payment showing evidence of completion of Project closeout requirements, updated final statements, AIA Documents G706, G706A, and G707.

01 31 00 - PROJECT COORDINATION:

- 1. Coordinate construction operations required to complete requirements of the full scope of the Contract Documents to ensure efficient and orderly construction of each portion of Work.
2. Prepare and submit coordination drawings according to requirements where required of individual Specifications, where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or where coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
3. Requests for Information (RFIs): Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI including the following information:
a. RFI number, numbered sequentially and titled with appropriate subject matter.
b. Specification section and drawing number and detail references, as appropriate.
c. Field dimensions and conditions, as appropriate.
d. Contractor's suggested resolution(s), if any.
e. If Contractor's resolution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
f. Contractor's signature.
g. Attachments: Include sketches, descriptions, measurements, photos, or other pertinent information to describe the condition.
4. Architect, Engineer, and Owner will review each RFI, visit the site as necessary to determine action required, and respond. Allow three (3) working days for Architect and Owner's response for each RFI. Response may request additional information. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Owner and Architect within two (2) days of receipt of the RFI response.
5. Project Meetings: Conduct preconstruction, preinstallation, and progress meetings discussing all aspects of construction activities which affect progress, installation, and completion of the project. Schedule and conduct meetings and conferences at Project site unless otherwise indicated and in coordination with Owner's requirements. Prepare the meeting agenda, distribute the agenda to all invited attendees. Contractor shall conduct the meeting and record the discussions, including open items, action items and responsible party, and decisions made. Distribute the meeting minutes to all individuals attending and concerned within three (3) days of the meeting. The Contractor shall regularly schedule and conduct Progress Meetings, per above requirements, to occur weekly (once every week), throughout the duration of the construction schedule.
6. The Contractor shall regularly schedule and conduct Progress Meetings, per above requirements, to occur weekly (once every week), throughout the duration of the construction schedule.

01 33 00 - SUBMITTALS:

- 1. Contractor shall provide to Owner and Architect a submittal schedule within one-week following Notice to Proceed. Make frequent updates to the submittal schedule, logging reviewed and approved or rejected submittals accordingly, to accurately track the submittal process. Coordinate the submittal schedule with the construction schedule.
2. Contractor's submittals, such as product data sheets, color charts, shop drawings, and physical samples, shall be required for all products and materials specified herein and proposed for use on this project. Do not proceed with work until required submittals have been reviewed and approved by the Owner, Architect and Engineer.
3. Contractor's submittals in a scheduled & timely manner so that review, markups, and re-submittals, if necessary, can occur without negatively impacting the project schedule.
4. Contractor shall provide product data sheets and shop drawing submittals in digital PDF format. Submit physical samples directly to the Architect, with digital transmittal and a photograph or scanned image of the sample posted as per data submittals so that the submittal is tracked electronically with all other submittals.
5. All Submittals shall be complete, orderly, and provide clear indications of selected products, accessories, and options. Incomplete submittals will be returned to the Contractor without review or markups. All Submittals shall be reviewed by the Contractor for compliance with specification requirements BEFORE submitting them to the Owner and Architect for review.
6. Contractor shall submit product data, including manufacturer's technical data sheets and other pertinent product information.
7. Contractor shall submit shop drawings where requested in these specifications indicating materials, colors, sizes, products, clearances, and other pertinent information prior to installation to the architect. Shop drawings shall be uniquely produced for this project and shall not be reproductions of the contract documents. Shop drawings shall be produced to a scale commensurate with the level of detail required by the work. Shop drawings shall describe connections to, and coordination with, adjacent work, even if by other trades.
8. Contractor shall submit physical samples where requested. Samples shall be clearly labeled on the non-finish side to identify the item and distinguish it from other samples showing options for finishes, sheen, gauge, thickness, and other characteristics.
9. Contractor shall submit qualification data for firms and persons demonstrating their capabilities and experience to perform the work as specified in these documents.

01 35 20 - SUSTAINABLE DESIGN REQUIREMENTS:

- 1. Contractor shall comply with the requirements and procedures of the Maryland Stadium Authority's existing Sustainability Policies as follows (NOTE: This project is not seeking its own LEED accreditation)
a. Sustainable Purchasing Policy: A copy of policy shall be obtained by the Contractor PRIOR TO START OF CONSTRUCTION.
b. Sustainable Purchasing Plan: Submit a Sustainable Purchasing plan that results in end-of-Project rates for sustainable purchases as defined by this section of at least 50-percent by cost of total purchased required by the Work.
c. Provide evidence in product data submittals showing compliance with sustainable purchasing requirements listed in paragraph B of this section.
d. Sustainable Purchases:
e. Adhesives and Sealants that have VOC content that complies with SCAQMD Rule #1168 and Bay Area Air Quality Management District Regulation 8, Rule 51.
f. Paints and Coatings that have VOC emissions complying with Green Seal's Standard GS-11, GS-03, and SCAQMD Rule #1113
g. Non-carpeted finished flooring in FloorScore-certified
h. Composite panels and affixer products contain no added urea-formaldehyde resins
i. Percentage of the product shall contain recycled content (pre- or post-consumer) contributing toward the overall project goal.
j. Construction Waste Management Policy: Submit a Construction Waste Management Plan that results in end-of-Project rates for salvage/recycling of 70-percent by value of total waste generated by the Work.
k. Minimize and Reduce Construction and Pre-Occupancy Indoor Air Quality (IAQ) Policy: A copy of policy shall be obtained by the Contractor PRIOR TO START OF CONSTRUCTION.
l. Submit an Indoor Air Quality (IAQ) Management Plan illustrating compliance with the requirements of the MSA's IAQ policy.
m. Submit additional products and materials during construction as required by the policy.
n. Refer to section 01 74 19 for additional information for Construction Waste Management requirements.

01 50 00 - TEMPORARY FACILITIES, PROTECTIONS, AND CONTROLS:

- 1. Water and Electrical power from Owner's existing systems is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations that comply with NECA, NEMA, and UL standards, and as may be otherwise directed by the Owner.
2. Comply with NFPA 241 for fire-safety, and provide portable, UL rated fire extinguishers with class and extinguishing agent as required by locations, and classes of fire exposures.
3. Where required, provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
4. Protect existing to remain HVAC systems and in-progress installation of new HVAC systems with temporary filters during construction where devices are directly located within work areas or that may be subject to dust and debris from construction operations. Clean and change filtration as needed through construction in order to maintain systems in proper working order and maintain normal interior environmental conditions. Replace temporary filters with new permanent filters upon completion of construction activities.

- 5. Where practical and feasible, provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. In all spaces, including ventilated and unventilated spaces, provide internal HEPA filtration devices and HEPA filtered vacuums to reduce dust accumulation and airborne debris transmission between spaces.
6. Owner's existing toilet facilities may be available for Contractor's use during construction; coordinate use with owner. Maintain cleanliness and operations of all facilities in good order.
7. Coordinate with Owner to determine the primary construction entrance for materials and personnel, including site access and acceptable or prohibited pathways through the building, including limited use of certain entrances and building areas. For areas permitted to be used, areas must be kept clean and maintained in a condition acceptable to Owner. Provide temporary flooring protections and wall and corner guard protections, as necessary to prevent damage from Construction Operations. Where required, provide temporary framed and hard-sheathed partitions and supported soft shell barriers of 6-mil minimum, flame-retardant polyethylene plastic sheet. Overlap and tape the seams of partitions. Securely fasten and seal enclosures at ceilings, overhead protection or structure, floor, and walls to provide continuous dust barrier to separate the area of work completely from the adjacent areas. Provide hingest personnel access doors and zipper-style access points through sheathing where required. Ensure adequate ventilation to protected workspaces. At access points through the barrier, provide sticky walk-off mats to limit construction debris being transported onto floors adjacent to the work area.
9. Anchorage for temporary construction and containment assemblies shall not damage existing building fabric. Use suitable separation materials, such as insulation board and friction-braces to minimize contact points, abrasion, and need for fasteners to permanent construction.
10. Contractor shall determine means and methods for establishing appropriate protections and gain approval from Architect and Owner for all such protections. Repair or replacement of damaged assemblies shall be the Contractor's responsibility throughout construction. Temporary clean assemblies that are to be reused before moving them to another portion of the work space or building to limit dust migration.
11. Contractor shall provide required staging, ladders, equipment, materials, and similar items in order to provide temporary protections and controls and to execute the work required. At the completion of construction and acceptance of the work, remove temporary protections and controls completely and to the satisfaction of the Owner. Worker repairs where necessary.

01 73 00 - EXECUTION

- 1. Drawings are representative of the general layout and configuration of the existing building and the proposed layout and configuration of systems and assemblies proposed. Existing construction is documented herein to the extent that such information could be reasonably obtained through visual observation, field measuring, and limited non-destructive field survey. If existing conditions require alternate system configurations and pathways to be considered and established, such alterations shall be fully evaluated by the Architect, Engineer, and Owner in accordance with RFI procedures.
2. The contractor shall be responsible for verifying existing conditions prior to the commencement of work, including but not limited to, materials and assemblies, dimensions, clearances, mechanical, electrical, and plumbing systems requirements, and other items affecting the fitting of new work to existing to remain construction. Discrepancies shall be reported to the Architect, Engineer, and Owner for review and direction.
3. Do not proceed with work until conditions are acceptable for installation of required work. Proceeding with the Work indicates acceptance of surfaces and conditions.
4. Take field measurements as required to fit the Work properly. Check measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
5. Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
6. Deliver materials in original packaging; store and stage materials in accordance with manufacturer's product requirements in locations permitted by Owner.
7. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
8. Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions with manufacturers.
9. Protect installed Work from damage and deterioration through construction and time of Substantial Completion.
10. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Repair includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
11. When cutting and patching structural elements, notify Owner of locations and details of cutting and avoid directions from Owner before proceeding. Shore, brace, and support structural element during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
12. Before cutting slabs on grade, survey via appropriate methods to verify presence of existing utilities in the pathway of cutting operations and to verify the exact location of existing utilities to be incorporated in new work.
13. Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
14. The existence and location of utilities and construction indicated as existing are not guaranteed. Before beginning shoring, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
15. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

01 74 19 - CLEANING AND CONSTRUCTION WASTE MANAGEMENT

- 1. Daily Cleaning: Provide cleaning of project site daily; coordinate cleaning procedures with all trade contractors and subcontractors. Remove construction waste daily, do not allow waste materials to accumulate. Maintain Project site as a clean, safe, and orderly condition throughout.
2. Construction Waste Management: Recycling of construction waste is a requirement of the Maryland Stadium Authority's Sustainability Policies and shall be the Contractor's responsibility to comply. Construction waste, including but not limited to, demolished materials, packaging, and cut-offs of new materials shall be recycled. Recycle materials lawfully at facilities where construction waste is routinely handled and recycled. Contractor shall submit name of proposed recycling facility for approval by Owner.
3. Contractor shall maintain tickets received from off-site recycling and waste centers and shall submit a complete set of disposal tickets as record for quantities recycled and disposed.
4. For materials not permitted to be recycled, dispose of such materials at licensed off-site facilities in a lawful manner and maintain refuse ticket records same as for recycled materials.
5. Following completion of construction operations and removal of temporary protections, Contractor shall provide final cleaning services for all areas of work and of all materials installed, including adjacent existing to remain assemblies, to the extent approved by Owner.
6. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to conditions expected of commercial cleaning and maintenance programs. Comply with manufacturer's written instructions for cleaning of specific materials and assemblies. Leave Project clean and ready for occupancy.

01 77 00 - CLOSEOUT PROCEDURES:

- 1. Contractor shall submit the following items five (5) days prior to requesting final inspection for determining date of Substantial Completion:
a. Certificates of Release.
b. All submittals required by these specifications.
c. Testing/Balancing Reports (when work is required).
d. Documents necessary for Owner's occupancy, use, operation, and maintenance.
e. Documents required by Engineering specifications.
2. Contractor shall perform the following operations five (5) days prior to requesting final inspection for determining date of Substantial Completion:
a. Make final changeover of permanent locks and deliver keys to Owner.
b. Complete start up and testing of systems and equipment.
c. Terminate and remove temporary facilities from the project site.
d. Complete final cleaning, including touch-up painting.
e. Touch-up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
3. Coordinate with Owner and Architect to schedule an inspection to determine Substantial Completion. Contractor shall prepare an initial "Completions and Corrections" list of known items to be completed and/or corrected. Architect will add to this list following onsite review, noting additional items to be corrected by the contractor. Architect/Owner will prepare the Certificate of Substantial Completion after inspection.
4. Before requesting final inspection for determining final completion, Contractor shall complete the following:
a. Repair or remove and replace defective construction identified during previous inspections. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified conditions.
b. Provide final cleaning of areas affected by repair work required.
c. Submit a final Application for Payment.
d. Certified "Completions and Corrections" list, endorsed and dated by the Owner and Architect.
e. Certificate of Insurance.
f. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
5. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

01 78 23 - OPERATION & MAINTENANCE DATA:

- 1. Contractor shall submit an Operations and Maintenance manual prior to requesting inspection for substantial completion.
2. Manual shall contain all emergency, operation, and maintenance data and materials for all products and systems in the project.
3. Manual shall be organized with separate sections for each system and subsystem:
a. Title page
b. Table of contents
c. Products, systems, sub-systems, fixtures, and equipment detailed descriptions.
d. Wiring, control, and systems diagrams, as applicable.
e. Operation and Maintenance Procedures.
f. Warranties
4. Submit initial manual in digital (PDF) format, fully book-marked for Architect and Owner review.
5. After approval, and only if required by Owner, submit hard-copies, in number requested by Owner, in heavy-duty, three-ring, vinyl covered, loose leaf binders with clear plastic sleeves on cover and spine. Identify each binder with project information on cover and spine. Provide heavy paper binders with tabs for each section, and protective plastic sleeves for electronic equipment and drawings included in the manual.

02 41 19 - SELECTIVE DEMOLITION, INCLUDING CUTTING & PATCHING AND DISASSEMBLY & REASSEMBLY

- 1. Definitions:
a. Remove: Remove and, if not being salvaged, legally recycle or dispose of items offsite, except those items indicated to be reinstalled.
b. Salvage: Remove item and salvage for reinstallation, as for "Remove and Reinstall".
c. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
d. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.
2. Disposal shall comply with Construction Waste Management as described in other paragraphs. Promptly remove demolished materials from site. Do not allow demolished materials to accumulate on-site.
3. Refer to "Temporary Facilities, Protections and Controls" for temporary enclosures and other suitable methods to limit the spread of dust, dirt, and debris, as appropriate for each condition. Comply with governing environmental protection regulations.
4. Selective Demolition: Includes careful removal of only those materials necessary to perform the work of these documents, such as removing existing decommissioned systems, removal of damaged materials to permit restoration and to permit the installation of new systems specified. Restoration of assemblies shall be either by new materials matching existing or the reinstallation of salvaged components, as noted on the drawings and as applicable to the particular work-piece.
5. Cutting and Patching: Cutting and removal of existing items shall be executed in a neat, professional, and workman-like manner. Provide necessary tools and equipment, and layout of systems to provide neat, clean, cuts and which minimize disturbance to adjacent building components. Use methods required to complete Work within limitations of governing regulations and as follows:
a. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. To minimize disturbance of adjacent surfaces, use hand or small power tools designed for sawing or grinding, not hammering and chipping. Temporarily cover openings to remain, including openings for HVAC devices and ductwork.
b. DO NOT USE cutting torches or any other open flame equipment. Hot Work shall be completed by special permission only from the Owner and under strict supervision and fire watch.
c. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

- d. For overhead or high-elevation work indicated to be removed, including structural and nonstructural items, carefully cut away items from supporting structure using methods permitted and lower to the floor or ground using methods to avoid free-fall and to prevent ground impact or dust generation.
e. Return elements of construction and surfaces to remain to condition existing before start of operations.
f. Promptly patch and repair damaged surfaces caused by adjacent construction by selective demolition operations.
6. Use repair materials identical to existing materials, except where specification for repair or replacement materials differ in these documents.
7. Do not use tools and equipment that impose vibration and impact on the existing building structure or finish materials and elements.
8. Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner to produce acceptable results.
9. Demolish and remove existing construction only to the extent required by new construction and as indicated.

042000 - UNIT MASONRY

- 1. Concrete Masonry Units (CMU):
a. Shapes: Provide bull nose units at opening jambs.
b. ASTM C90
c. Density Classification: Normal Weight
d. Nominal face dimensions: 16" long and 8" high (15-5/8" x 7-5/8" actual) with nominal thicknesses as indicated (Manufacturer to dimensions 3/8" less than nominal)
e. Exposed faces: Fine texture and consistent color
f. Special shapes: Provide bullnose units at outside corners and at door jambs, matching existing building standard.
2. Mortar & Grout:
a. Portland Cement: ASTM C150, Type I or II Provide color as required to produce matching mortar color.
b. Hydrated Lime: ASTM C207, Type S
c. Aggregate for Mortar: ASTM C144, natural sand or crushed stone of color necessary to produce matching mortar color.
d. Aggregate for Grout: ASTM C 404
3. Water: Potable
4. Mixes:
a. Do no use admixtures or calcium chloride.
b. Comply with ASTM C270
c. For masonry below grade or in contact with earth, use Type M
d. For reinforced masonry, use Type S
e. For other locations, use Type N
5. Reinforcement:
a. Masonry Joint Reinforcement: ASTM A951/A951M
6. Cleaning:
b. Clean masonry as working progresses by dry brushing.

06 20 23 - INTERIOR FINISH CARPENTRY, CASEWORK, AND COUNTERTOPS:

- 1. Section Includes:
a. Plastic laminate casework, countertops, and shelving.
b. Adjustable wall-mount shelving standards and brackets.
c. Operable and fixed hardware for casework.
2. Submittals, Product Data: Provide for all products, materials, and fasteners proposed for use.
3. Shop Drawings: Provide for casework, countertops, and shelving showing products and accessories, installation and fastening methods, and adjacent construction.
4. Submittals, Physical Samples for initial selection and verification for workability, cabinetry, panel products, and countertop materials.
a. Submit physical samples in sufficient size and number to show and produce full range of intended aesthetic effects.
5. Concealed Wood Blocking: Refer to Section 09 29 00 - Gypsum Board and Partition Framing Systems.
6. Plastic Laminate Cabinets and Countertops: Products and Materials:
a. AWW Premium-Grade frameless cabinets, full overlay, with swing doors, adjustable shelves, and drawers as detailed.
b. Panel Construction: Plastic laminate clad panels over approved panel substrate. DO NOT USE MELAMINE PANELS.
c. Panel Substrate: Formaldehyde-Free medium density fiberboard, Moisture-Resistant, Product: "MEDEX MDF" or Equal.
d. Plastic Laminate: HDPL, Horizontal grade, Wilsonart, Nevamar, or Formica - Comply with Basis of Design Selections Indicated on Finish Schedule.
e. Case body panel thickness: 3/4-inch thick for all panels except that backs may be 1/4-inch thick.
f. Joinery for case body members: Contractor's option of best acceptable AWW premium grade joining methods.
g. Edge Treatment for Exposed and Semi-exposed Plastic Laminate Clad Panels: Color matched PVC 3 mm edgeband, flat profile with slightly eased edges. DO NOT SELF-EDGE WITH PLASTIC LAMINATE.
h. Adjustable Shelves: Plastic laminate clad panels, same as for case body panels, PVC edging all around. Set on 5 mm adjustable retaining pin clips designed to retain shelf.
i. Door Panels & Drawer Fronts: 3/4-inch thick plastic laminate clad panels, same as for case body panels, with PVC edge-band all around.
j. Base Construction: Separate shop-built ladder-frame hardwood plywood base on which the cabinet case bodies are set and fastened.
k. Hardware: Provide top-quality hardware by Blum, Grass, Accuride and/or similar manufacturers meeting the following:
k.a. Hinges: Euro-style concealed hinges with three-way adjustability and integral soft-close mechanism, min. 110° opening.
k.b. Drawer slides: Heavy duty type, slide- or bottom-mounted, min. 100 lb capacity, full-extension slides with integral soft-close mechanism.
l. Pulls: Stainless steel pulls meeting ADA requirements. Provide D-style pulls matching the form and size of the existing cabinet pulls.
m. Plastic Laminate Countertops: AWW Premium quality, Grade HGS HDPL, PREMIUM self-edge with matching laminate (top laminate overlaps edge laminate).
n.a. Countertop Core Material: Particleboard made with exterior glue, 3/4-inch thickness.
n.b. Build up countertop thickness to 1-1/2 inches at front, back, and ends with additional layers of core material laminated to top.
n.c. Field template countertop before fabrication. Miter corners and use blind miter bolts to draw tight.
n.d. Seams in laminate countertops shall be hairline and without burrs or chips in plane.
n.e. Provide back and side splashes of 3/4" thick plastic laminate clad material all around. Seal neatly to adjoining wall surfaces.
n.f. Vertical plastic laminate divider panel. Construct similar to countertop, with vinyl applied edging on each exposed edge.
o. Shop-fabricate, fit and assemble casework, tops, and cabinetry to greatest extent possible for field installation.
7. Adjustable Wall-Mount Shelving: Fabricate plastic laminate shelves of same core material and edging as indicated for plastic laminate cabinetry, and as follows:
a. Shelf thickness: 1-inch.
b. Standards and Brackets: KV Extra Heavy Duty 165 and 85, anachrome finish; sizes as required indicated shelf depth.
b.a. Locate standards evenly spaced not more than 32-inches on center, or as indicated on drawings.
8. Installation: Comply with manufacturer's instructions for installation and fastening requirements. Comply with AWW standards for installation tolerances. Make adjustments to installed materials to correct and align, plumb, level, and true all components. Where correction is not possible, remove and fully replace work component(s) as necessary.
9. Vacuum, wipe down, and generally clean all surfaces inside and out, and protect completed woodwork throughout the duration of construction.

07 92 00 - JOINT SEALANTS AND FIRESTOPPING:

- 1. Provide paintable acoustical acrylic latex sealant locations indicated to receive painted finish, to close reasonable gaps in construction and provide a paintable surface, and all terminations of metal stud tracks, gypsum and other sheathing panels, as an acoustical seal.
2. Latex Joint Sealant: ASTM C 834, Type: OP, Grade: NF
3. Manufacturers: Contractor's option from the following: Pecora Corp. (AC-20); Sherwin-Williams Co. (PowerHouse); Tremco (Tremflex 834).
4. Provide sanitary silicone sealant to seal gap between plumbing fixtures and adjacent surfaces.
5. Sanitary Silicone Sealant: ASTM 920, Type: S, Grade NS, Class 25
6. Manufacturers: Contractor's option from the Pecora or Tremco
7. Provide preformed, resilient, closed-cell foam backer rods where required by the sealant manufacturer in sizes recommended based on gap width.
8. Firestopping: Where fire-seals and/or smoke seals are required for utilities traveling between adjacent spaces and between floors, provide gun-grade intumescent firestop sealant (SSS, LCI, or equivalent manufacturer) for the full perimeter of the pipe, sleeve and/or annular space. Where voids exist, pack firmly with rock- or slag-type mineral wool fire stopping materials prior to caulking.
9. In general, all penetrations through wall and floor assemblies for piping, mains, electrical conduits, and similar utilities shall be fire-sealed. Refer to Brick masonry Section for related steel sleeve requirements.
10. Finished joints: Clean and prepare joint surfaces according to manufacturer's instructions and by removing all foreign substances from joint surfaces. Prime joint surfaces where recommended by sealant manufacturer.
11. Install firestopping and sealants per manufacturer's instructions and comply with the recommendations in ASTM C 1193.
12. Tool non-sag sealants immediately after application, and provide concave joint at all sealant locations per figure 8A in ASTM C 1193.
13. Clean off excess sealant or smears from adjacent surfaces as the work progresses.

ARCHITECTURAL SPECIFICATIONS CONTINUE ON AS.2

Table with 3 columns: NO, REVISION / SUBMISSION, DATE. Row 1: 95% CD SUBMISSION, 10/02/2020. Row 2: 100% CD SUBMISSION, 10/14/2020.

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PROJECT OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV. 333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION I certify that these documents were prepared or designed by me and that I am a duly licensed architect in the State of Maryland. Name: Walter Schmu License: 275-R Expiration: May 2, 2022

Table with 2 columns: DRAWING TITLE, ARCHITECTURAL SPECIFICATIONS. Includes drawing details: DRAWN ZSS/LM, PROJECT # 20009.00, CHECKED ZSS, DRAWING #, REVIEWED REM, DATE 10/14/2020, SCALE AS NOTED.

AS.1

ARCHITECTURAL SPECIFICATIONS CONTINUED

08 11 13 - HOLLOW METAL DOORS AND FRAMES:

- 1. Section includes Interior Custom Steel Hollow Metal Doors and Frames and Glazing for Hollow Metal Doors.
2. Provide shop drawings and product data submittals for Hollow Metal Doors and Frames. Fully coordinate fabrication with existing/reused and new hardware specified.
3. Manufacturer: Provide hollow metal doors and frames meeting specifications manufactured by one of the following: Ceco Door, Curries Company, or Steelcraft.
4. Materials:
a. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
b. Cold-Rolled Steel Sheet: ASTM A 1008, Commercial Steel (CS), Type B; suitable for exposed applications.
c. Hot-Rolled Steel Sheet: ASTM A 1011, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
d. Metallic-Coated Steel Sheet: ASTM A 653, Commercial Steel (CS), Type B.
e. Frame Anchors: ASTM A 879, Commercial Steel (CS), Q4Z coating designation; mill phosphatized.
e.a. Where anchors are built into exterior walls, use steel sheet complying with ASTM A 1008 or ASTM A 1011, hot-dip galvanized according to ASTM A 153, Class B.
f. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153.
g. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.
h. Grout: ASTM C 476, except with a maximum slump of 4 inches, as measured according to ASTM C 143.
i. Mineral-Fiber Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.
j. Blumirous Coating: Cold-applied asphalt mastic, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.
5. Interior Extra-Heavy-Duty Doors and Frames: SDI A250.8, Level 3; SDI A250.A, Level A.
a. Doors:
a.a. Type: As indicated in the Door and Frame Schedule.
a.b. Thickness: 1-3/4 inches.
a.c. Face: Uncoated steel sheet, minimum thickness of 0.053 inch.
a.d. Edge Construction: Model 1, Full Flush
a.e. Edge Bevel: Provide manufacturer's standard beveled or square edges.
a.f. Core: Manufacturer's standard.
b. Frames:
b.a. Materials: Uncoated steel sheet, minimum thickness of 0.053 inch.
b.b. Sidelite Frames: Fabricated from same thickness material as adjacent door frame.
b.c. Construction: Face welded.
b.d. Provide fire-resistance rated door and frame assemblies as required by these documents, refer to door schedule.
b.d.a. Design and permanently label frames for fire ratings where required.
b.e. Profile: Wrap-around design with either single- or double-rabbit and 2" face dimension, as detailed on drawings. Size throat for wall type required and closely coordinate with field conditions where required for existing partitions.
b.f. Frame Configuration for Gypsum Board Partitions: Double return back bend, flush hairline miter at corner of head and jamb, corners reinforced and face welded along miter.
c. Anchors: Provide a minimum of three anchors per jamb suitable for the adjoining wall construction. Frames over 7-feet-6-inches in height shall be provided with an additional anchor per jamb. Provide suitable anchors for wall conditions required:
c.a. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick.
c.b. Existing wall anchors: Dimple frames to receive countersunk fasteners; reinforce interior of frame with tube stock sleeve for anchor and welded clip. Selection of fastener type and size shall be coordinated with the type of partition.
c.b.a. Following installation and final adjustment of frame, door, and hardware, fill countersunk holes with suitable metal filler, sand flush to face of frame, and prime and paint finish to blend in seamlessly with frame surfaces.
d. Hardware Reinforcements: Comply with Table 4 of ANS/SDI A250.8, but provide not less than: 7 gauge for hinge reinforcing and 14 ga. x Template Requirements for door/strike reinforcing.
e. Insulation: Coordinate installation of hollow metal frames with partition erection and insulation installation to ensure mineral wool SAFB material is securely packed within jamb and head/stud cavities and annular spaces between frame and metal studs.
7. Prime Finishing: Frames shall be thoroughly cleaned, and chemically treated to insure maximum paint adhesion. All surfaces of the door and frame exposed to view shall receive a factory applied coat of rust inhibiting primer, either air-dried or baked-on. The finish shall meet the requirements for acceptance stated in ANS/SDI A250.10 Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
8. Frames shall be installed plumb, level, rigid and in true alignment as recommended in ANS/SDI A250.11, Recommended Erection Instructions for Steel Frames. All frames other than slip-on types shall be fastened to the adjacent structure so as to retain their position and stability.
9. Coordinate hollow metal frames with wood doors for proper fitting and installation.
10. Hardware installation shall be in accordance with the hardware manufacturer's recommendations and templates. ANS/SDI A250.6, Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames shall be consulted for other pertinent information. Install in accordance with manufacturer's instructions and in accordance with SDI Standards.
11. Adjust as necessary for proper hanging and operation of doors and hardware.
12. Glazing Kits: Flush, low profile design, square or rectangular profile stops (not beveled or wrap-around).
12. Glazing Accessories: Provide all accessories indicated and required for complete installation.
13. Glazing for Doors and Sidelites, Type GL-1; Manufacturers: Cardinal Glass Industries, Viro Architectural Glass (PPG Glass, Inc.), or Viracon, Inc..
a. Type GL-1: Clear Tempered Glass - Safety Glazing.
b. Construction: Comply with ASTM C1048, (1) piece of clear, fully-tempered glass meeting ASTM C1048, Type I, Class 1 (clear), Quality Q3
c. Overall Unit Thickness: Approx. 1¼-inch thick
14. Field paint hollow metal doors and frames in accordance with interior and exterior painting specification

08 80 00 - DOOR HARDWARE:

- 1. Submittals: Provide Hardware Schedule identifying components, style, function, size, finish, manufacturers, mounting locations and product data sheets.
2. Contractor to supply all necessary hardware components to complete work of each opening identified in drawings, even if not explicitly specified.
3. Supplier shall have a minimum of 5 years experience in the field of architectural hardware.
4. Hinges: 5 knuckle full mortise hinges, standard weight ball bearing:
a. Basis of Design Manufacturer and Product: Stanley FBB191 Stainless, or equal by McKinney or Hager.
b. Finish: Stainless Steel Satin US32D
5. Mortise Locksets: BHMA A156.13; Operational Grade 1 Security Grade 1; Series 1000.
a. Manufacturer & Product: Corbin Russwin ML2000 Mortise Locking Standard.
b. Lever style and Trim: Lustra LWP to match existing. Dummy trim, where required, shall match lever lock trim and escutcheons.
c. Finish: 626 Satin Chromium Plated
6. Cylinders & Keying: Provide locksets less (without) cylinders. Owner shall provide cylinders.
7. Overhead Closers:
a. Basis of Design Manufacturer and Product: LCN 4040XP, or equal by Yale or Sargent
b. Mounting: Regular Arm (Pull-side)
c. Options: Hold-open Function & Cush-N-Stop Arm (HCUSH)
d. Finish: Metal Cover with Aluminum Finish (689)
8. Stops:
a. Wall-mounted: Basis of Design: Ives "Style 407 1/2" and complies with ANSI A156.16
9. Manual Flush Bolts: Provide products complying with BHMA A156.16, Grade 1, from Rockwood Manuf. Co., H.B. Ives, or Hager
a. Minimum 3/4" throw
b. Products for mortising into door edge
c. Provide compatible dust-proof strike.
10. Protection Plates: Provide products from Rockwood Manuf. Co., H.B. Ives, or Hager
a. Material: Stainless Steel, 0.050 inch thick
b. Kick Plate Size: 6-inches high by 2-inches less than door width
c. Finish: Satin (630)
d. All sides beveled with countersunk holes for flat head fastener attachment.
11. Resilient Thresholds & Reducers: Provide finishing accessories at all flooring transitions. Adjust models as necessary to coordinate with selected flooring thicknesses. All transitions shall be ADA-compliant.
a. Resilient Reducer: Johnsonite CRS-40-X or equal. Black finish.
b. Resilient Threshold: Johnsonite CCA-40 or equal. Black finish.
12. Provide wall & overhead stops and other accessories as required for each opening by quality manufacturers and in finish and style consistent with other listed hardware.
13. All materials to be installed per manufacturer's templates and instructions; level, plumb, and true. Reinforce as necessary for proper installation.
14. Install door seals securely with required fasteners. Adjust seals so that doors close properly and seals tight. Check for light gaps and adjust seals to eliminate all light transmittance.
15. Comply with BHMA for door hardware mounting heights.
16. Adjust each operating item of hardware and door for proper orientation and function.

HARDWARE SETS (HWW)

Table with 2 columns: Hardware Set Name and Description. Includes HW 1 - Double Storage Door, HW 2 - Single Door Leaf - Locking, HW 3 - Single Door Leaf - Toilet/Shower Room.

09 15 10 - ACOUSTICAL TILE CEILING AND GRID:

- 1. Scope of section: Acoustic ceiling tile and suspended grid systems for limited applications, as indicated on drawings.
2. Coordinate ceiling work with all existing to remain and new ceiling-suspended and ceiling-mounted MEP/FPF devices and fixtures; notify Architect of potential conflicts.
3. Submittals: Provide Product Data and Physical Sample submittals for for ceiling panel and grid components to verify match to existing ceilings.
4. Basis of Design Manufacturer & Product: Match existing to remain ceiling tile adjacent to project area.
5. Size: 24" x 48" x 1" Thick; Refer to drawings for layout.
6. Edge: Tegular, 15/16" Lay-in
7. Color: White, factory applied latex paint.
8. Material and Texture: Mineral Fiber; Fine
9. Flame Spread Index: Class A

- 10. Acoustic: TBD, by matching product.
11. Light Reflectance TBD, by matching product
12. Metal Suspension System: Match existing to remain ceiling tile adjacent to project area or Prelude XL/ML Exposed Tee
13. Exposed Tee Width: TBD, by matching product.
14. Color: White
15. Structural Classification: Intermediate Duty ASTM G635 classifiable as Heavy Duty by use of additional hangers
16. Store all materials in enclosed conditioned space and protect them from damage, moisture, direct sunlight, an surface contamination.
17. Field-verify all ceiling areas prior to installation. Carefully layout rooms to avoid using less than half width panels at borders, UNO.
18. Comply with layout shown on reflected ceiling plans and conform to existing conditions.
19. Install ceilings according to manufacturer's instructions and CISCA's "Ceiling Systems Handbook".
20. Do not use exposed fasteners in moldings and trim. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
21. Field-cut tiles to add to product factory-edge profile
22. Clean & protect surfaces after installation. Replace damaged and marked tiles with new tiles at close-out of construction phase.

09 29 00 - GYPSUM BOARD AND PARTITION FRAMING SYSTEMS:

- 1. Submittals; Product Data: Provide detailed product data sheets for each product proposed for use.
2. Contractor to verify that project conditions and substrates are suitable to begin work. Materials shall be in original, unopened packages, with labels intact, that materials have been stored in a dry location, protected from weather and direct sunlight, and stored flat to prevent bowing and damage, and that the temperature in installation areas are at a minimum 55 deg F for 24 hours prior to and not less than 48 hours after installation.
3. Architectural Framing Materials:
a. CFMF: Cold Formed Metal Framing.
b. Manufacturer: Provide products by Dietrich Industries, Inc., or an approved equivalent meeting requirements.
c. ASTM C 645, fabricated from galvanized steel sheet, ASTM A525 G-60 coating, in configurations required by details.
d. Gauge Thickness: 20-gauge, typically, or as needed for height of partition.
e. Type and Depth: Refer to details on drawings for size and type of framing members required.
f. Where indicated, provide custom sized and formed metal channels of gauge indicated to suit thickness of existing partitions, as detailed.
g. Floor Anchors For Partial-Height Walls: Pinqujet Tool & Die Co., Inc., Part #008, 3.5/8-inch x 1.8-inch high floor anchor, or approved equal, at each stud.
4. Gypsum Board:
a. Manufacturers: Provide products by National Gypsum Co., or an approved equivalent meeting requirements.
b. Type for wall panels: 5/8-inch thick, Type X with tapered edges.
c. Type for panel liners: 1-inch thick shaft-linear type panels.
d. Corner Bead and Edge Trim: Use formed, zinc-coated steel corner beads, edge trim and control joints which comply with ASTM C 1047, and are designed for embedment in joint compound for a concealed appearance.
e. Joint Treatment: Products should match gypsum board manufacturer and shall be asbestos-free. Joint tape to be standard paper type. Joint compound shall be Setting-Type for embedding tape and first over-coat. Use drying type for final coats and skimming.
f. Screws: ASTM C 1002, self-drilling type, lengths as recommended by gypsum board manufacturer for project conditions.
g. Installation: Install exposed board with face side out. Do not install damaged or damp boards. Maximum space between framing is 1'10", and are not to be forced into place. Locate joints over supports. Do not place tapered edges against cut edges or ends. Attach boards to any supplementary boards and blocking provided for additional support at openings and cutouts.
h. Finishing: Apply joint tape and treatment at all board joints, corner beads, trim, penetrations, fastener heads, and other surface defects to meet finish requirements. Sand between coats and after last coat of joint compounds. Promptly remove any residual gypsum drywall materials from adjacent or adjoining surfaces, leaving spaces ready for subsequent finishing.
i. Finished Surface: Finish gypsum panels to Level 5 for eggshell and higher paint sheen.
5. Acoustical Insulation
a. Mineral (Rock or Slag) Fiber insulation blankets/batts which complying with ASTM C 665 and the following:
b. ASTM136: Maximum flame spread = 25; Maximum smoke developed = 50
c. Manufacturers: SG Corporation "Thermofiber Sound Attenuation Blanket", or approved equal.
d. Thickness: As required to fill stud cavity.
6. Fire-retardant Treated (F-T) Blocking: At locations indicated, and whenever surface mounted items are to be placed, locate solid Fire-Treated wood blocking of sufficient size and depth to support intended loads. F-T Blocking shall be nominal 2-inch thick solid framing lumber or minimum 3/4-inch thick F-T type AC plywood.

09 30 00 - CERAMIC FLOOR AND WALL TILE:

- 1. Floor Tile: Refer to Interior Design Drawings for floor tile information, size, finish, setting pattern, etc.
a. Joints: 1/8-inch to 3/16-inch maximum or as recommended by the tile manufacturer.
2. Wall Tile: Refer to Interior Design Drawings for floor tile information, size, finish, setting pattern, etc.
a. Trim Units: Provide all required trim units including Wall Bullnose, Wall Bullnose Corner, Cove Base, and Cove Base Corner. Refer to Interior Design Drawings for tile product information.
b. Joints: 1/16-inch wide or as recommended by the tile manufacturer.
3. Waterproofing Membrane: Schluter products
a. Schluter Kerdi Sheet: Provide continuously for wall tile installation.
b. At Showers: Apply Kerdi membrane continuously on floor and wall to fully waterproof enclosure. Follow Schluter instructions explicitly. Tie membrane into shower drain clamping ring.
4. Setting Materials: Manufacturer, contractor's option: Latitec. Custom Bulkling Products, Mapei, but use same as for grouting materials.
a. Over Concrete slab on grade: Unmodified Portland Cement Mortar to set uncoupling membrane and to set tile.
4. Grouting Materials: Manufacturer. See setting materials.
a. Epoxy grout for floor and wall tile.
b. Refer to Interior Design Drawings for color.
5. Installation Methods:
a. Floor Tile over Concrete slab: TCA F122-12
b. Wall Tile over CMU: TCA W202-12
6. Provide materials obtained from one source for each type and color of tile, grout, and setting materials. Inspect surfaces to receive tile prior to installation for quality compliance with manufacturer's requirements.
7. All work required to create satisfactory substrate is part of the work of this contract. Inspect the existing subfloor and perform any leveling required or modifications to ensure gaps between sheets are compliant with specified installation methods prior to installation of new materials. Install all materials in accordance with manufacturer's instructions and TCA installation guidelines.
8. Floor patching and leveling products shall be cement-based products. Gypsum-based products are not acceptable.
a. Manufacturer: Provide products by Ardex, or a Manufacturer of equivalent products.
b. Products shall be approved for use for the thickness required to provide a level surface.
9. Materials shall be fully cured in accordance with floor covering manufacturer's requirements prior to application of flooring.
10. Locate expansion joints and other sealant filled joints, including control, contraction, and isolation joints, where recommended by tile manufacturer.
11. Provide expansion joints which comply with TCA installation method EJ171 as applicable to installation conditions shown.
12. Clean & protect all tile surfaces upon completion of installation.

09 65 13 - RESILIENT FLOORING AND WALL BASE

- 1. Flooring, General: Vinyl Composition Floor Tile; homogeneous composition of high quality additives and colorants meeting the performance requirements of ASTM F 1066, Standard Specification for Vinyl Composition Tile.
2. Submittals: Provide product data sheets for products and materials proposed for use and provide physical sample to confirm that style, size and color matches existing.
3. Vinyl Composite Tile (VCT): Refer to Interior Design Drawings for Product Information, Color, and Installation Pattern
4. Vinyl Wall Base (VWB): Refer to Interior Design Drawings for Product Information and Color
a. Provide coated material with carefully field-formed inside and outside corners, subject to Architect approval.
5. Transition strips: Provide low-profile vinyl transition strips between flooring of different types. Color to be selected by Architect.
6. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
a. Use adhesives free of asbestos and with the lowest VOC content possible from manufacturer's approved adhesives.
7. Flooring Substrate Preparation: Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products. Concrete Substrates: Prepare according to ASTM F 710.
a. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
b. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
c. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
d. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft., and perform no fewer than two tests in each installation area and with test areas evenly spaced in installation areas.
e. Anhydrous Calcium Chloride Test: ASTM F 1869. Proceed with installation only after substrates have max. moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24-hrs.
f. Relative Humidity Test: Using in-situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
g. Fill cracks, holes, and depressions in substrates with cementitious trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
h. Do not install floor tiles until materials are the same temperature as space where they are to be installed. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.
i. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.
8. Floor Tile Installation: Comply with manufacturer's written instructions for installing floor tile.
a. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
b. Lay tiles square with room axis with borders indicated.
c. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
d. Lay tiles with grain running in one direction. In pattern indicated.
9. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including pipes, outlets, and door frames.
10. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles into door openings to that flooring transition is beneath closed door leaf.
11. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on substrates. Use chalk or other nonpermanent marking device.
12. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
13. Floor Tile Finishing: Apply a minimum of five (5) coats of floor finish, using finishing products, materials, tools and methods recommended by flooring manufacturer.
14. Protection: Protect installed flooring for duration of construction. Replace damaged and marked tiles that cannot be repaired to Owner's satisfaction at close-out of construction.
15. Wall Base Installation, General: Prior to installation, carefully review conditions to ensure substrates are stable and smooth; repair irregularities before beginning base installation.
16. Existing Wall Base Adjacent to New Work: Where new or modified walls abut existing walls and wall base, remove existing wall base and install new wall base in longest continuous length possible.
17. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
18. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
19. Do not stretch resilient base during installation.
20. Job-Formed Inside and Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3-inches in length.
21. Form outside corners without producing discoloration (whitening) at bends. Miter or cope inside corners to minimize open joints.
22. Provide any and all accessories necessary to provide a complete installation.
23. Following installation, clean resilient base to be free of adhesive or other residue. Protect from damage.

09 68 13 - TILE CARPETING

- 1. Submittals: Provide product data sheets for products and materials proposed for use and provide physical samples to confirm product characteristics.
2. Samples: Provide full size sample of selected carpet, of each type indicated.
3. GPT: Refer to Interior Design Drawings for Product Information, Size, and Stain Resistance
4. Transition strips: Provide low-profile vinyl transition strips between flooring of different types. Color to be selected by Architect.
5. Adhesives: Water-resistant type recommended by flooring manufacturer for products and substrate conditions required. Use adhesives free of asbestos and with the lowest VOC content possible from manufacturer's approved adhesives.
6. Flooring Substrate Preparation: Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products. Concrete Substrates: Prepare according to ASTM F 710. Prior to installation, sweep and vacuum clean substrates to be covered by carpet tile.
7. Carpet Tile Installation: Comply with manufacturer's written instructions for installing carpet tile.
a. Lay out floor tiles per the Interior Design Drawings. If not indicated on the Interior Design Drawings, lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
b. Lay tiles square with room axis with borders indicated.
8. Scribe, cut, and fit flooring tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including pipes, outlets, and door frames.
9. Extend flooring tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles into door openings to that flooring transition is beneath closed door leaf.
10. Adhere flooring to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
11. Protection: Protect installed flooring for duration of construction. Replace damaged and marked tiles that cannot be repaired to Owner's satisfaction at close-out of construction.

09 91 00 - PAINTING:

- 1. Scope for finish painting shall include the entire surface of any surface receiving any repair work. That is, the entire wall, ceiling, or corner-corner as applicable to each space. The aesthetic intent is that repair work is indistinguishable from existing surfaces.
2. Submittals; Product Data: Provide product data submittals for each product and sheen proposed.
3. A single manufacturer is to be used for all coating materials, to the extent practical.
4. Provide multiple mockup samples applied direct to substrates in the field based on preliminary colors selected by the Interior Designer Provide additional mockup samples, as requested by Owner or Interior Designer, for additional colors at no additional cost.
5. Color and sheen selection may vary by area and material. Refer to Interior Design drawings for colors and color scheme. Potential color scheme and selection shall not be limited by bid price.
6. Manufacturer: Provide products by Sherwin Williams.
7. Paint Schedule 1: For Application over new and existing interior gypsum wall board partitions.
a. Interior Primer: Cross-linking acrylic latex primers for substrate and compatible with topcoats. (SW Duration)
b. Interior Topcoat: Duration Cross-linking Interior Acrylic Latex
c. Provide finish topcoats sufficient to cover, but not less than two (2).
8. Paint Schedule 2: For Application over interior wood and interior and exterior ferrous metal.
a. Interior Primer: Best quality acrylic primers for substrate and compatible with topcoats OR N/A for shop-primed substrates.
b. Interior Topcoat: Pro Industrial Water based Alkyd Urethane.
c. Provide finish topcoats sufficient to cover, but not less than two (2).
9. Paint Schedule 3: For Application over new and existing interior CMU partitions.
a. Interior Primer: Pro Industrial Heavy Duty Block Filler
b. Interior Topcoat: Duration Cross-linking Interior Acrylic Latex
c. Provide finish top coats sufficient to cover, but not less than (2).
10. Sheens: Per Interior Design Drawings, or as follows if not specified.
a. Gypsum Walls: Eggshell
b. Wood Components & Trim: Semi-gloss
c. Hollow Metal Doors and Frames: Semi-gloss
d. CMU Walls: Semi-gloss
11. All materials shall be applied per manufacturer's instructions and within acceptable temperature, humidity, and moisture conditions stated by the manufacturer. Materials shall be roller or brush applied to produce even, smooth finish surfaces of uniform cover and to achieve mil thicknesses required for interior and exterior conditions. Nap marks, brush marks, drips, telegraphing joints, and similar conditions shall be viewed as defects and shall be corrected by the Contractor prior to final approval of work.
12. Provide adequate lighting during cleaning, priming, painting, and finishing activities.
13. Areas to be painted must be clean and dust-free. Dust particles in the finish coat detectable to the touch are cause for rejection of the finish coat.
14. Prepare and clean each existing and new substrate condition in accordance with manufacturer's instructions. All work required to create satisfactory substrate is part of the work of this contract and is outlined as follows:
a. Provide barrier coats or remove and re-prime incompatible primers as required.
b. Clean surfaces before applying surface treatment.
c. Remove oil and grease prior to mechanical cleaning.
d. Coordinate cleaning and painting to ensure that no cleaning contaminants will fall onto newly painted areas.
14. Existing painted surfaces to receive new paint that do not require barriers shall be cleaned to receive new paint but are not required to receive a bottom (prime) coat. These surfaces may only require two finished coats only, except where patching has occurred.
15. In addition to cleaning, remove all loose and flaking paint from existing surfaces. Fill all voids, cracks, gouges and other surface defects prior to application of new finishes. Provide prime coat in any areas that have existing coatings removed by cleaning or overwatered with.
16. All existing surfaces to receive new paint shall be cleaned with a concentrated, water-based, biodegradable, zero VOC, strongly alkaline cleaner for the removal of oil, grease, dust, dirt and other contaminants prior to further surface preparation and prior to painting.

10 28 00 - TOILET ACCESSORIES:

- 1. Scope includes toilet accessories in new toilet and shower rooms. Provide product submittals for all items and shop drawings where appropriate.
2. All accessories shall be installed per manufacturer's instructions w/ adequate inserts or anchoring devices and meeting ADA requirements.
3. Toilet Paper Holder (1 per water closet): REINSTALL SALVAGED HOLDER
a. Finish: Existing
4. Sanitary Napkin Disposal (1 per water closet): REINSTALL SALVAGED UNIT
5. Grab Bars (1 pair per ADA water closet): Kohler Purist (HK-11895-BS & HK-11896-BS)
a. Finish: Brushed stainless steel
6. Paper towel dispenser (1 per new toilet or shower room): REINSTALL SALVAGED DISPENSER
a. Finish: Existing
7. Mirror (1 per new sink): Refer to Interior Design Drawings.
8. Soap dispenser (1 per pair of new sink): REINSTALL SALVAGED DISPENSER
a. Finish: Existing
9. Towel/Garment Hook (1 per shower head): Kohler Parallel (HK-23529-CP)
a. Finish: Polished Chrome
10. Shower Rod & Curtain (1 Rod & Curtain per shower head):
a. Rod: Bobrick B-6107 in recommended length.
b. Curtain: White, Non-PVC curtain per shower in length required to cover entire opening.
11. Trash Cans: NIC (Loose cans provided by Owner).

Table with 3 columns: NO, REVISION / SUBMISSION, DATE. Includes entries for 95% CD SUBMISSION (10/02/2020) and 100% CD SUBMISSION (10/14/2020).

SM+P ARCHITECTS logo and contact information for SOHANI HACHOWSKI + PATTERSON ARCHITECTS, INC.

CONSULTANTS: MEP ENGINEERING: BURDETTE KOEHLER MURPHY & ASSOC. 6300 BLAIR HILL LANE, SUITE 400 BALTIMORE, MD 21209 TEL: 410-323-0600

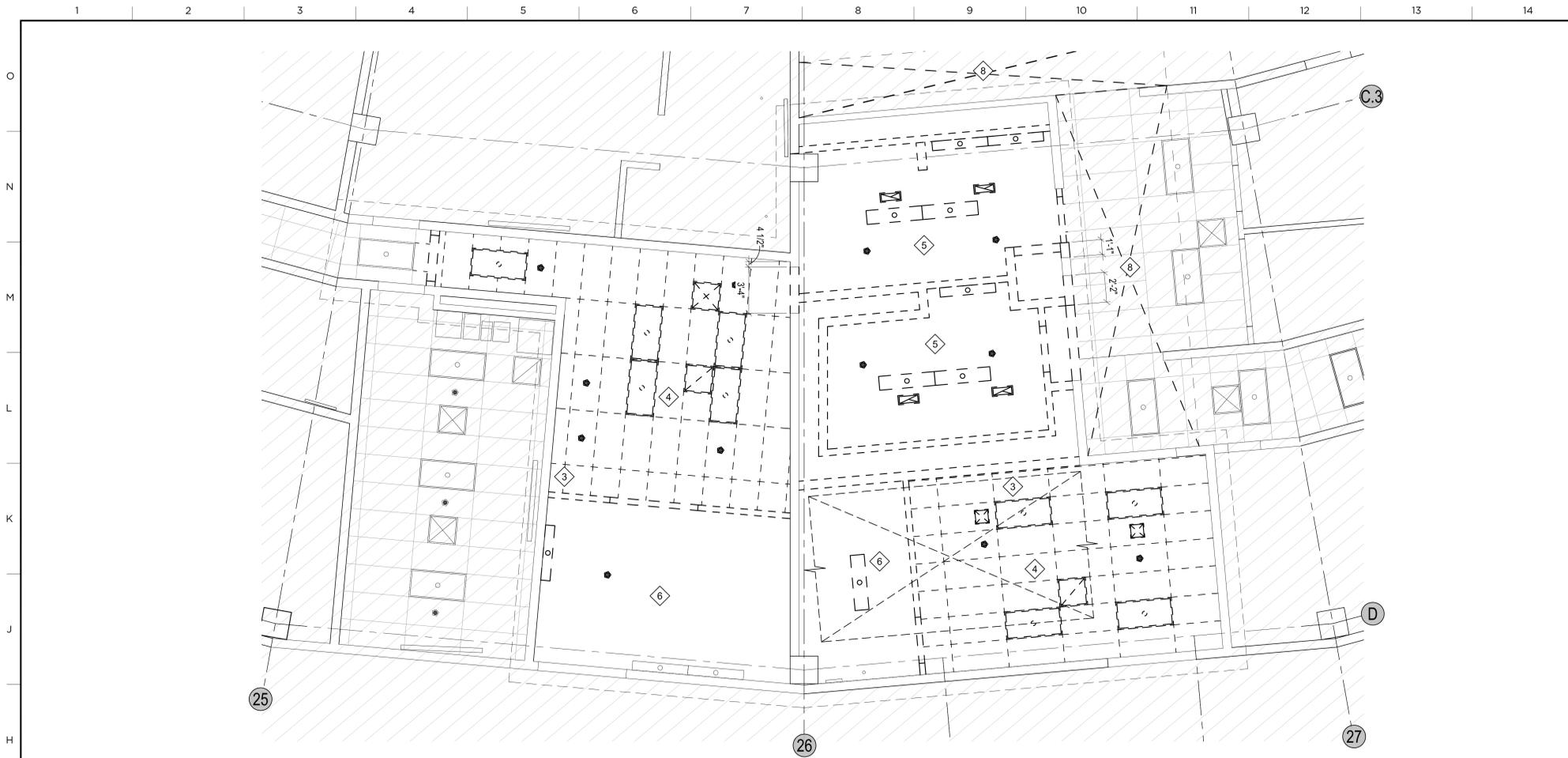
PROJECT: OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV. 333 W. CAMDEN ST. | BALTIMORE, MD 21201

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.

DRAWING TITLE: ARCHITECTURAL SPECIFICATIONS

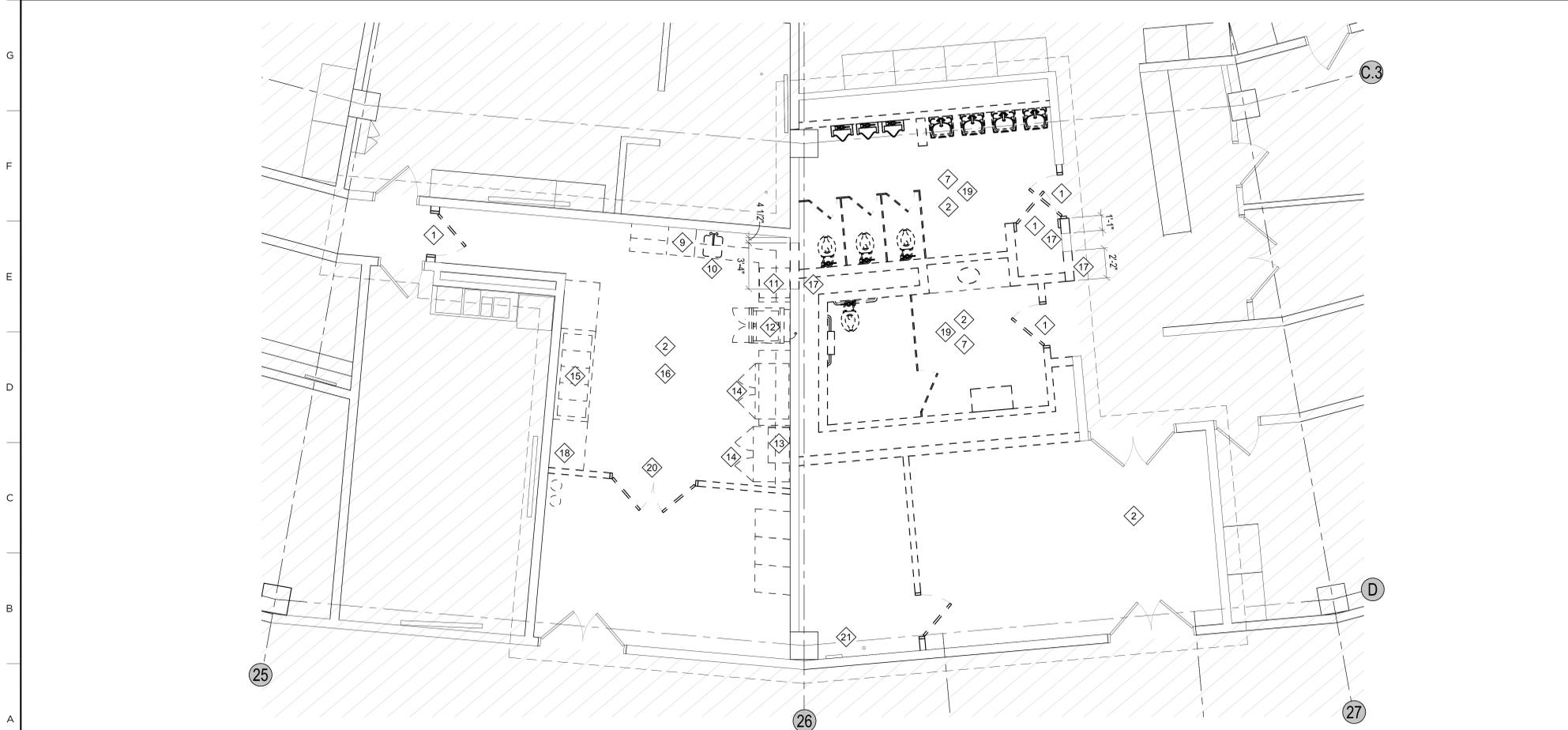
DRAWN: ZSS/LM PROJECT #: 20009.00 CHECKED: ZSS DRAWING #: REVIEWED: REM DATE: 10/14/2020 SCALE: AS NOTED

AS.2



H1 DEMOLITION REFLECTED CEILING PLAN

1/4"=1'-0"



A1 DEMOLITION FLOOR PLAN

1/4"=1'-0"

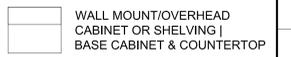
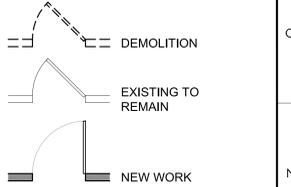
GENERAL DEMOLITION & PATCHING NOTES:

1. - - - - DASHED LINES INDICATE DEMOLITION.
2. WHERE "EXISTING CONSTRUCTION TO BE REMOVED" IS DEMOLISHED FROM "CONSTRUCTION TO REMAIN" PATCH, FILL HOLES, CLEAN PREPARE, PRIME AND APPLY NEW FINISH. COMPLETED WORK IS TO BE INDISTINGUISHABLE FROM ADJACENT WORK. THIS APPLIES TO ALL FLOORS, WALLS, ETC.
3. AT NEW MECHANICAL/ELECTRICAL WORK ABOVE CEILINGS AT NEW PENETRATIONS THROUGH EXISTING PARTITIONS TO DECK ABOVE, PATCH & SEAL AROUND PENETRATIONS TO MAINTAIN MINIMUM SMOKE TIGHT PARTITION AND FIRE RATING OF THE EXISTING PARTITION. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR LOCATIONS.
4. AT NEW MECHANICAL / ELECTRICAL WORK THROUGH EXISTING WALLS/CEILINGS OUTSIDE OF THE SHOWN LIMITS OF WORK PATCH WALLS / CEILINGS AS REQUIRED TO MATCH IDENTICAL TO ADJACENT. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR LOCATIONS.
5. AT EXISTING WALL SURFACES TO BE INCORPORATED INTO NEW WORK, REMOVE ANY LOOSE PAINT, HANGERS, SIGNAGE, BRACKETS, ETC. FILL HOLES, PATCH SURFACE DAMAGE AND OTHERWISE PREPARE FOR NEW FINISHES TO MATCH NEW WORK.
6. ALL CONSTRUCTION ACTIVITY TO BE COORDINATED WITH THE MARYLAND STADIUM AUTHORITY.
7. COORDINATE ALL REMOVAL OF DISPOSED ITEMS WITH THE MARYLAND STADIUM AUTHORITY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. PROVIDE TEMPORARY CONSTRUCTION BARRIER / DUST BARRIER & WALK OFF MATS. REFER TO SPECIFICATIONS. MAINTAIN ALL REQUIRED EXIT WAYS DURING CONSTRUCTION.
9. TURN ALL REMOVED SIGNAGE OVER TO MARYLAND STADIUM AUTHORITY.
10. WHERE REQUIRED, CONTRACTOR SHALL PROVIDE SHORING AND/OR BRACING OF EXISTING WALLS AS REQUIRED TO INSTALL NEW LINTELS. METHOD OF SHORING AND /OR BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. WHERE FLOOR DRAINS ARE REMOVED AND CAPPED BELOW THE SLAB, PATCH THE SLAB AS REQUIRED SO THAT EVIDENCE OF PREVIOUS DRAIN CONNECTION IS NOT VISIBLE IN NEW FINISHES.

SPECIFIC DEMOLITION & PATCHING NOTES:

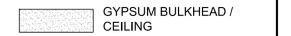
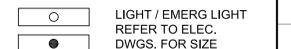
- 1 DEMOLISH EXISTING DOOR AND FRAME. TURN HARDWARE OVER TO MARYLAND STADIUM AUTHORITY.
- 2 REMOVE EXISTING FLOORING. PREPARE CONCRETE SLAB AS REQUIRED FOR NEW FINISH PER FINISH SCHEDULE AND SPECIFICATIONS.
- 3 REMOVE & TURN OVER TO OWNER EXISTING TELEVISION WALL MOUNT. PATCH CMU WALL AFTER REMOVAL & PREPARE FOR NEW FINISH
- 4 DEMOLISH EXISTING SUSPENDED ACOUSTICAL CEILING GRID, PANELS, ASSOCIATED HANGERS, BRACKETS, ETC. REMOVE AND SALVAGE EXISTING LIGHTS AND DIFFUSERS FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- 5 DEMOLISH EXISTING SUSPENDED GYPSUM CEILING, ASSOCIATED HANGERS, BRACKETS, ETC. REMOVE AND DISPOSE OF EXISTING LIGHTS AND DIFFUSERS. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- 6 REMOVE & SALVAGE EXISTING LIGHTS AND DIFFUSERS IN OPEN CEILING FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- 7 REMOVE AND SALVAGE EXISTING PLUMBING FIXTURES AND TOILET ROOM ACCESSORIES FOR REINSTALLATION. REMOVE AND TURN OVER TO OWNER EXISTING TOILET PARTITIONS. COORDINATE WITH PLUMBING DRAWINGS.
- 8 REMOVE AND SALVAGE EXISTING CEILING TILES IN APPROX. THIS AREA AS NEEDED TO PROVIDE ACCESS TO MECHANICAL/ELECTRICAL WORK ABOVE THE CEILING. REMOVE AND SALVAGE LIGHTS AND PORTIONS OF EXISTING CEILING GRID AS REQUIRED.
- 9 REMOVE AND SALVAGE EXISTING DISHWASHER FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 10 REMOVE AND SALVAGE EXISTING SINK & FAUCET FOR REINSTALLATION. REFER TO NEW WORK PLAN AND PLUMBING DRAWINGS FOR MORE INFORMATION.
- 11 REMOVE AND SALVAGE EXISTING ELECTRIC OVEN FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 12 REMOVE AND SALVAGE EXISTING ELECTRIC GRIDDLE FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 13 REMOVE AND SALVAGE EXISTING MICROWAVE FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 14 REMOVE AND SALVAGE EXISTING UNDERCOUNTER REFRIGERATOR/FREEZER & PREP CART FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 15 REMOVE AND SALVAGE EXISTING HOT AND COLD PLATES IN THE EXISTING BASE CABINET AND ASSOCIATED IN-COUNTER TRAYS FOR REINSTALLATION. REFER TO NEW WORK PLAN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 16 DEMOLISH EXISTING CABINETRY AND COUNTER TOPS. PATCH REMAINING WALL SURFACES AS REQUIRED TO PREPARE SUBSTRATES TO RECEIVE NEW FINISHES. PROTECT EXISTING ELECTRICAL DEVICES ABOVE THE COUNTER TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 17 DEMOLISH PORTION OF CMU WALL TO CREATE OPENING SHOWN AND TO TOOTH-IN NEW BULLNOSE UNITS AT NEW CORNERS.
- 18 REMOVE AND SALVAGE TV AND MOUNT FOR REINSTALLATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 19 PRIOR TO CUTTING & TRENCHING OF SLAB IN THIS AREA FOR INSTALLATION OF NEW PLUMBING CONNECTIONS. SURVEY AREA USING METHODS TO VERIFY PRESENCE OF UNDER-SLAB UTILITIES AND VERIFY EXACT LOCATIONS OF UNDER-SLAB PIPING.
- 20 REMOVE AND SALVAGE EXISTING DOOR FOR REINSTALLATION. DEMOLISH EXISTING FRAME.
- 21 EXISTING PIPING AND PULL BOX TO REMAIN.

DEMO & NEW PLAN KEY:



RCP KEY:

NOTE: COORDINATE ALL ITEMS WITH MEP DRAWINGS & SPECS



NO	REVISION / SUBMISSION	DATE
95%	CD SUBMISSION	10/02/2020
100%	CD SUBMISSION	10/14/2020

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PROJECT
 OPCY SERVICE LEVEL
 WOMEN'S LOCKER ROOM RENOV.
 333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION SEAL
 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.
 Name: Walter Scharru
 License: 3755-R
 Expiration: May 2, 2022

DRAWING TITLE
 PART SERVICE LEVEL - DEMOLITION PLANS

DRAWN	ZSS/LM	PROJECT #	20009.00
CHECKED	ZSS	DRAWING #	
REVIEWED	REM		
DATE	10/14/2020		
SCALE	AS NOTED		

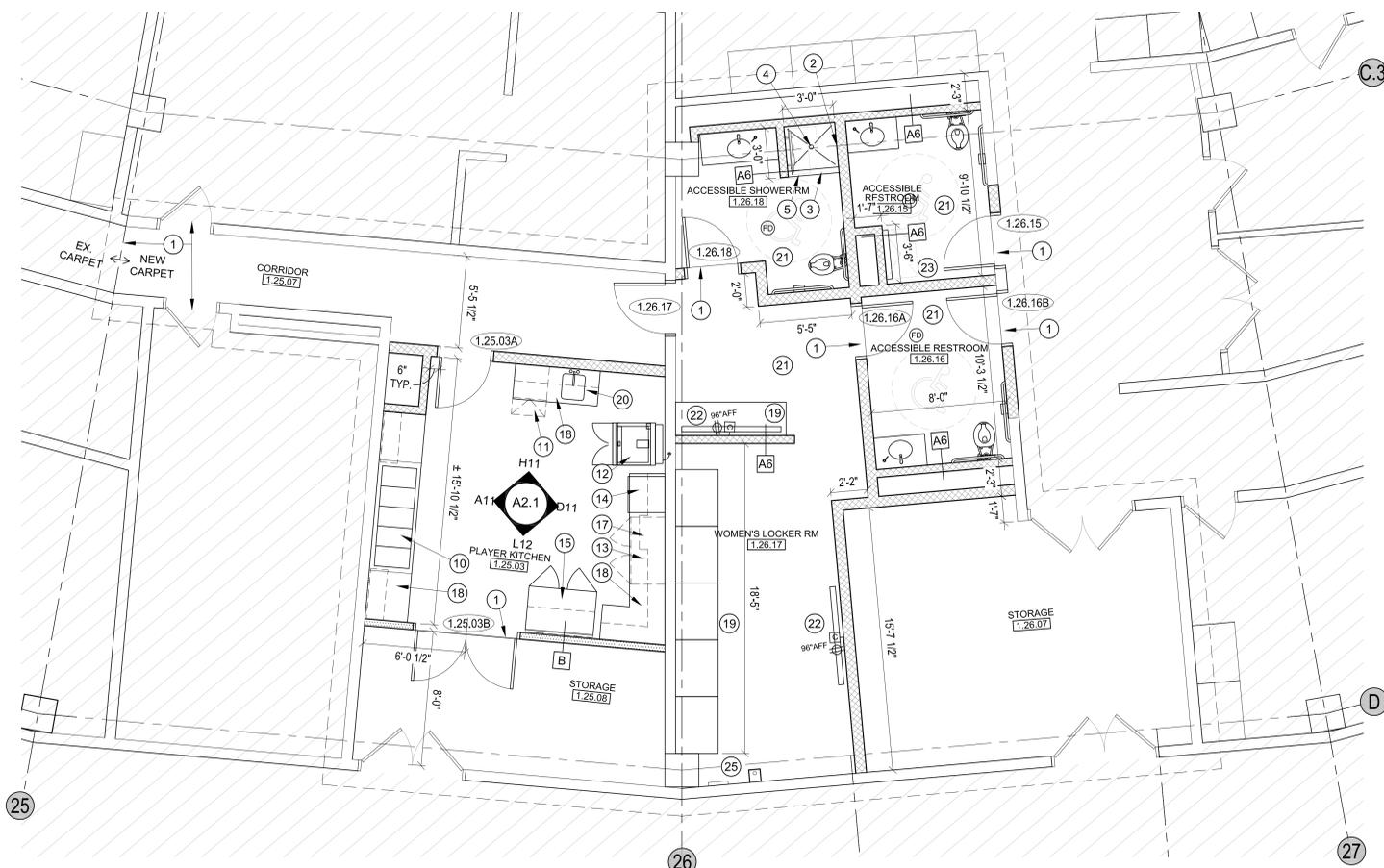
AD.1

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.



H1 NEW WORK REFLECTED CEILING PLAN

1/4"=1'-0"



A1 NEW WORK FLOOR PLAN

1/4"=1'-0"

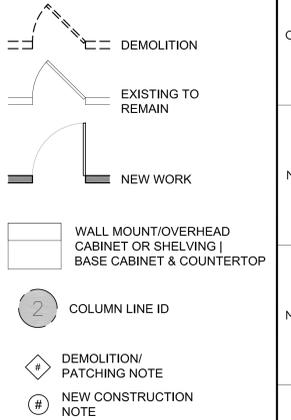
GENERAL NEW CONSTRUCTION NOTES:

1. [Symbol] SHADED PARTITIONS INDICATE NEW CONSTRUCTION. ALL WALLS ARE TYPE A8 UNLESS NOTED OTHERWISE - SEE A2.1 FOR WALL TYPES.
2. CONTRACTOR SHALL PROPERLY PROTECT ALL EXISTING FINISHES TO REMAIN FOR THE DURATION OF CONSTRUCTION AND PROVIDE A FINAL CLEAN TO ALL AREAS WITHIN THE SCOPE OF WORK UPON SUBSTANTIAL COMPLETION.
3. CONTRACTOR SHALL VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND PROMPTLY REPORT ANY DISCREPANCIES TO THE ARCHITECT.
4. ALL CONSTRUCTION ACTIVITY TO BE COORDINATED WITH THE MARYLAND STADIUM AUTHORITY.
5. PROVIDE MISCELLANEOUS BLOCKING, NAILERS, SUPPORT, ETC. AS REQUIRED FOR SUPPORT OF FIXTURES, ACCESSORIES, SPECIALTIES, AND TRIM. CUT MEMBERS AS REQUIRED FOR PLUMB AND LEVEL INSTALLATION OF WORK TO BE ATTACHED. COORDINATE LOCATION WITH OTHER WORK. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
6. FINISH ALL EXPOSED CONDUITS AND JUNCTION/PULL BOXES IN THE PROJECT AREA TO MATCH ADJACENT SURFACES, USING MULTIPLE COLORS IF NECESSARY.
7. REFER TO INTERIOR DESIGN DRAWINGS FOR FINISH TYPES, FINISH INFORMATION, AND EXTENTS OF NEW FINISHES.

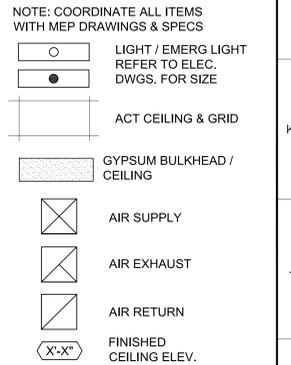
NEW CONSTRUCTION FLOOR PLAN NOTES:

- 1 NEW ADA-COMPLIANT FLOORING TRANSITION STRIP. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2 NEW SHOWER HEAD AND CONTROLS. SEE PLUMBING DRAWINGS.
- 3 SST SHOWER ROD & SHOWER CURTAIN.
- 4 NEW RECESSED FLOOR DRAIN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 NEW ADA-COMPLIANT MARBLE THRESHOLD. COORDINATE WITH INTERIOR DESIGN DRAWINGS.
- 6 NEW GYPSUM BOARD CEILING AND ASSOCIATED SUSPENSION SYSTEM.
- 7 INSTALL SALVAGED LIGHT FIXTURES AND MECHANICAL REGISTERS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 8 NEW ACOUSTICAL CEILING GRID AND TILE SUSPENDED FROM CONCRETE SLAB ABOVE.
- 9 ESTIMATED EXTENT OF EXIST. DUCTWORK & MAINTENANCE PLATFORM ABOVE CEILING.
- 10 INSTALL SALVAGED HOT PLATE AND COLD PLATE EQUIPMENT IN CABINET. INSTALL ASSOCIATED TRAYS IN COUNTER TOP. REFER TO INTERIOR DESIGN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 11 INSTALL SALVAGED DISHWASHER. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 12 INSTALL SALVAGED ELECTRIC GRIDDLE. MODIFY CEILING TILE FOR OUTLET STACK. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 13 INSTALL SALVAGED UNDERCOUNTER REFRIGERATOR/FREEZER. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 14 INSTALL SALVAGED ELECTRIC OVEN. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 15 INSTALL SALVAGED PREP CART. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 16 REINSTALL SALVAGED CEILING TILES, LIGHTS, AND / OR PORTIONS OF CEILING GRID AS REQUIRED AFTER COMPLETION OF MECHANICAL/ELECTRICAL WORK ABOVE THE CEILING.
- 17 INSTALL SALVAGED MICROWAVE. REFER TO INTERIOR DESIGN AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 18 NEW CABINETRY AND COUNTERTOP. REFER TO INTERIOR DESIGN DRAWINGS FOR MORE INFORMATION.
- 19 NEW LOCKERS AND BUILT-IN WORKSURFACE. REFER TO INTERIOR DESIGN DRAWINGS FOR MORE INFORMATION.
- 20 REINSTALL SALVAGED SINK AND FAUCET IN NEW COUNTER TOP. REFER TO INTERIOR DESIGN AND PLUMBING DRAWINGS FOR MORE INFORMATION.
- 21 WHERE EXISTING SLAB ON GRADE HAS BE CUT AND TRENCHED FOR NEW PLUMBING CONNECTIONS, PATCH SLAB ON GRADE. PROVIDE UNDER-SLAB FILL AND VAPOR BARRIER AS NECESSARY TO REESTABLISH CONTINUITY OF THESE LAYERS. REFER TO DETAIL ON A2.1 FOR MORE INFORMATION.
- 22 NEW TV MOUNT, AND POWER CONNECTION. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. VERIFY CONNECTION HEIGHT WITH OWNER PRIOR TO INSTALLATION.
- 23 REINSTALL WALL-MOUNTED CHANGING PAD WITH THE CHANGING SURFACE AT 33-INCHES AFF.
- 24 REINSTALL SALVAGED TV MOUNT AND POWER CONNECTIONS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. VERIFY CONNECTION HEIGHT WITH OWNER PRIOR TO INSTALLATION.
- 25 PROVIDE PREFINISHED METAL PIPE ENCLOSURE IN SIZE REQUIRED TO COMPLETELY CONCEAL PIPING; SOFI-STEEL U-SHIELD BY JG INNOVATIONS INC., OR EQUAL. EXTEND ENCLOSURE FROM FLOOR TO CEILING AND ANCHOR TO CMU VIA MANUF. CLIPS. FINISH TO MATCH WALL COLOR.

DEMO & NEW PLAN KEY:



RCP KEY:



NO	REVISION / SUBMISSION	DATE
95%	CD SUBMISSION	10/02/2020
100%	CD SUBMISSION	10/14/2020

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PROJECT
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WOMEN'S LOCKER ROOM RENOV.
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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.
Name: Walter Schamu
License #: 3755-R
Expiration: May 2, 2022

DRAWING TITLE
PART SERVICE LEVEL - NEW WORK PLANS

DRAWN	ZSS/LM	PROJECT #	20009.00
CHECKED	ZSS	DRAWING #	
REVIEWED	REM		
DATE	10/14/2020		
SCALE	AS NOTED		

A1.1

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

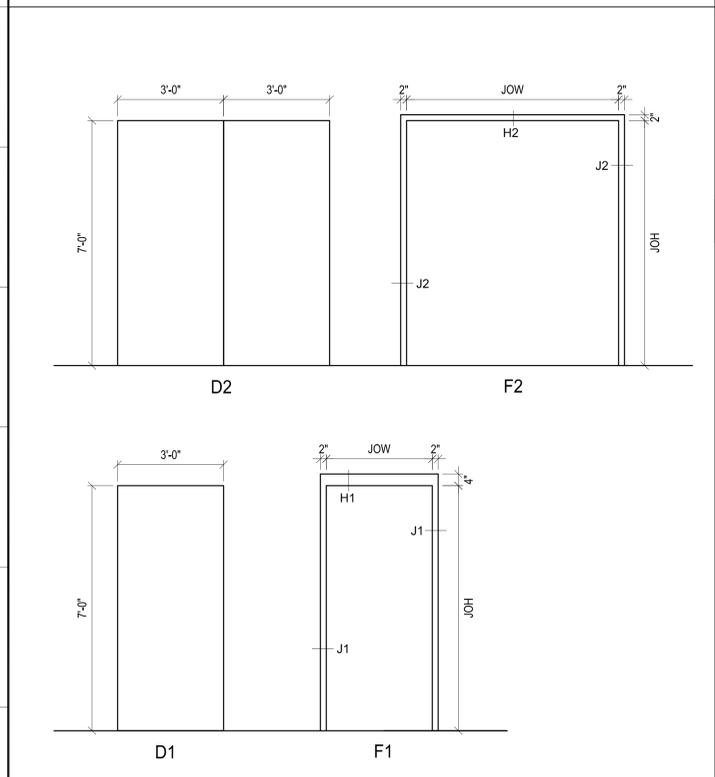
DOOR AND FRAME SCHEDULE													
NEW DOOR MARK	TYPE	SIZE			MATL	GLAZ	LOUV.	FRAME				HDW SET NO	NOTES
		WD	HT	THK				MATL	TYPE	DETAIL	HEAD		
1.25.03A	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H2	
1.25.03B	EX	EX	EX	EX	EX	EX	EX	HM	F2	H2	J2	H1	1
1.26.15	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H3	2
1.26.16A	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H3	2
1.26.16B	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H3	2
1.26.17	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H2	
1.26.18	D1	3'-0"	7'-0"	1-3/4"	HM	NO	NO	HM	F1	H1	J1	H3	2

GENERAL DOOR AND FRAME NOTES:

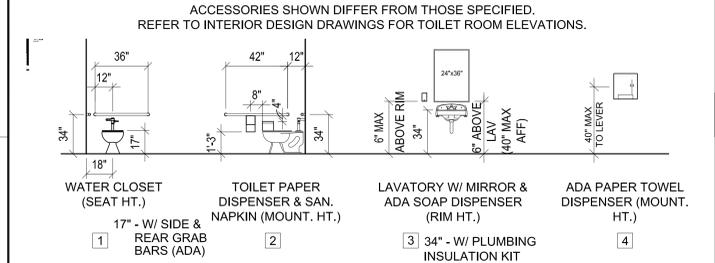
- REFER TO SPECIFICATIONS FOR NEW FINISH INFORMATION ON ALL DOORS.
- REFER TO SPECIFICATIONS FOR HARDWARE SETS.

SPECIFIC DOOR AND FRAME NOTES:

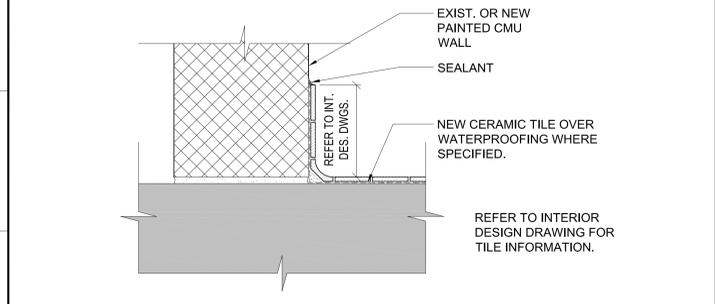
- EXISTING DOOR LEAVES INSTALLED INTO NEW FRAME. VERIFY DIMS IN THE FIELD. VERIFY FUNCTIONALITY OF ALL EXISTING HARDWARE AND REPAIR/REPLACE DAMAGED HARDWARE AS REQUIRED.
- PROVIDE 3/4" UNDERCUT ON DOOR, COORDINATED WITH THRESHOLD THICKNESS FOR PROPER EXHAUST FUNCTIONALITY.



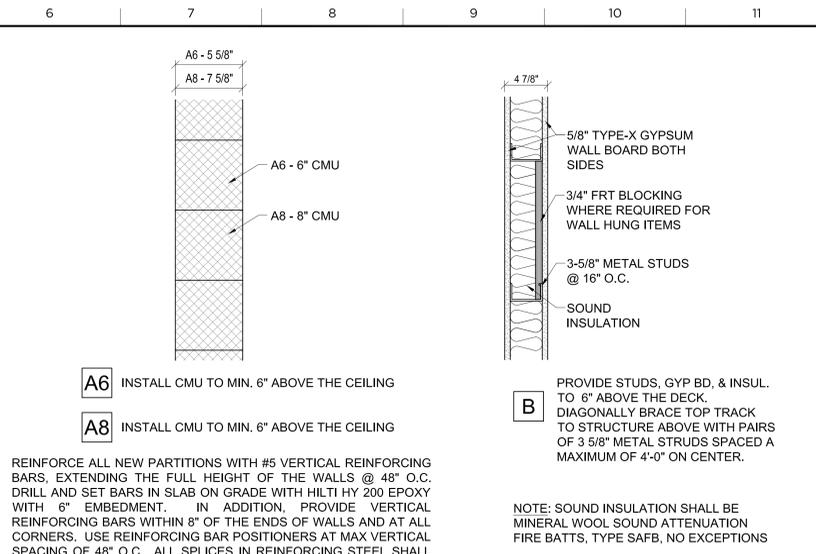
F1 DOOR AND FRAME TYPES
1/2"=1'-0"



C1 TOILETROOM ACCESSORY DETAILS
1/4"=1'-0"



A1 TYPICAL CERAMIC TILE WALL BASE DETAIL
3"=1'-0"

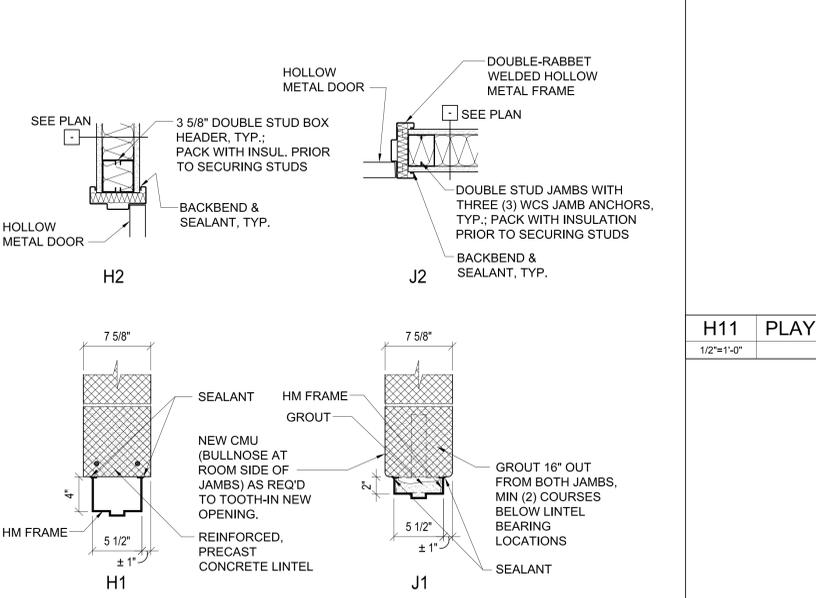


A6 INSTALL CMU TO MIN. 6" ABOVE THE CEILING
A8 INSTALL CMU TO MIN. 6" ABOVE THE CEILING

B PROVIDE STUDS, GYP BD. & INSUL. TO 6" ABOVE THE DECK. DIAGONALLY BRACE TOP TRACK TO STRUCTURE ABOVE WITH PAIRS OF 3 5/8" METAL STRUDS SPACED A MAXIMUM OF 4'-0" ON CENTER.

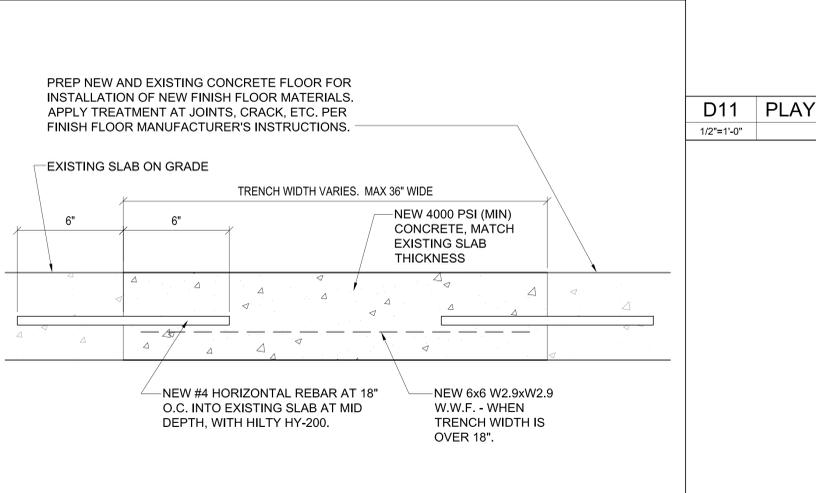
NOTE: SOUND INSULATION SHALL BE MINERAL WOOL SOUND ATTENUATION FIRE BATTS, TYPE SAFB, NO EXCEPTIONS

K6 WALL TYPES
1 1/2"=1'-0"

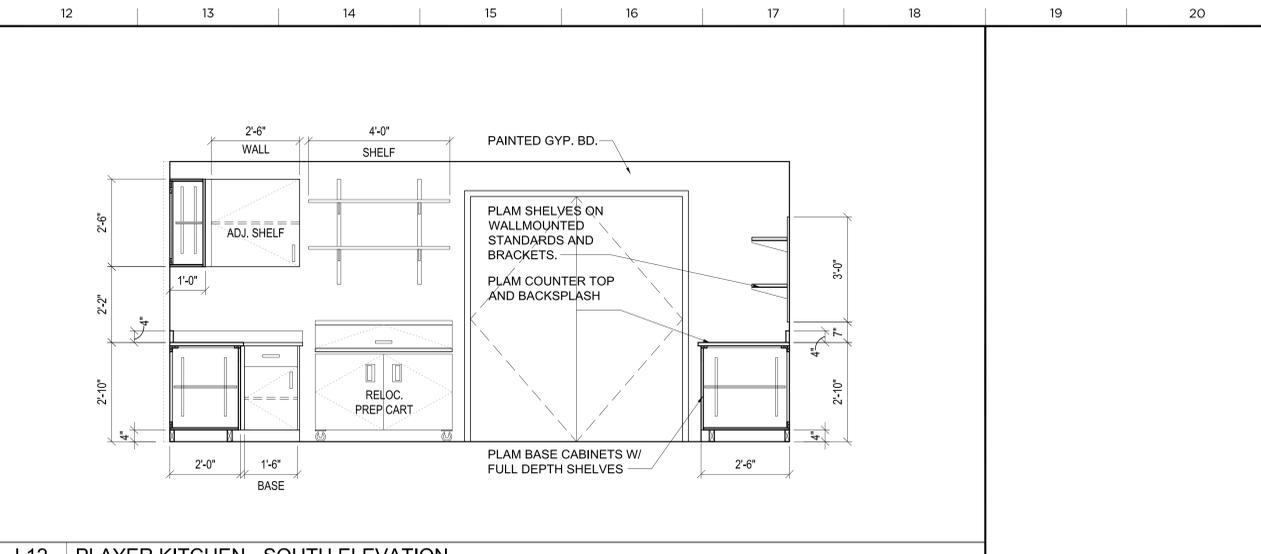


NOTE: ALL LINTELS TO HAVE SOLID BEARING, 8" MINIMUM AT EACH END.
NOTE: CONTRACTOR SHALL PROVIDE SHORING AND/OR BRACING OF EXISTING WALLS AS REQUIRED TO INSTALL NEW LINTELS. METHOD OF SHORING AND/OR BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

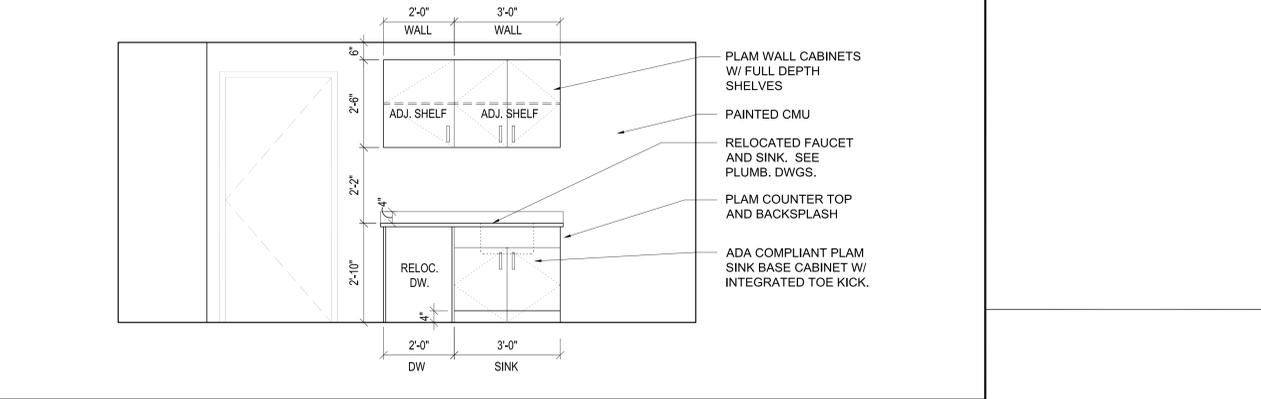
E6 FRAME DETAILS
1 1/2"=1'-0"



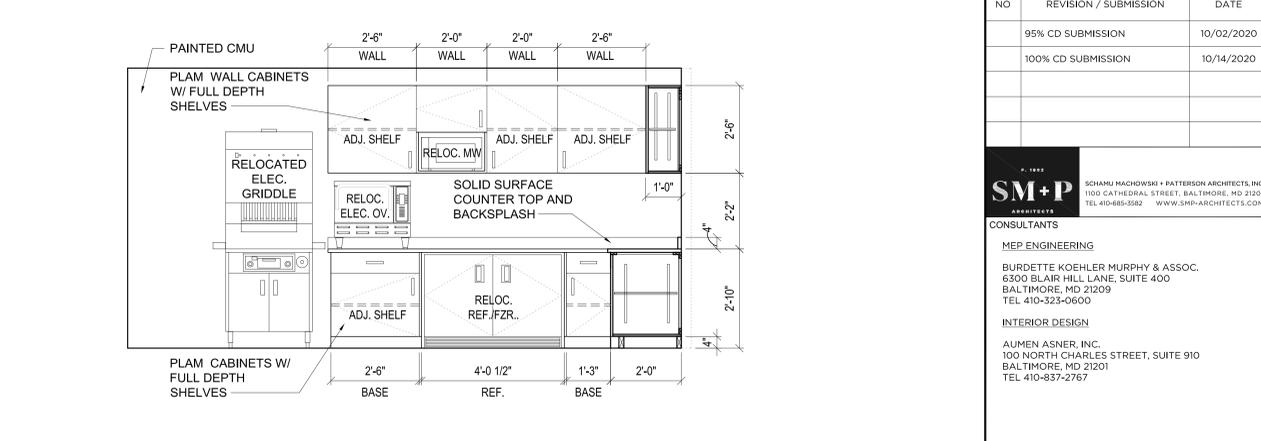
A6 SLAB TRENCH INFILL DETAIL
3"=1'-0"



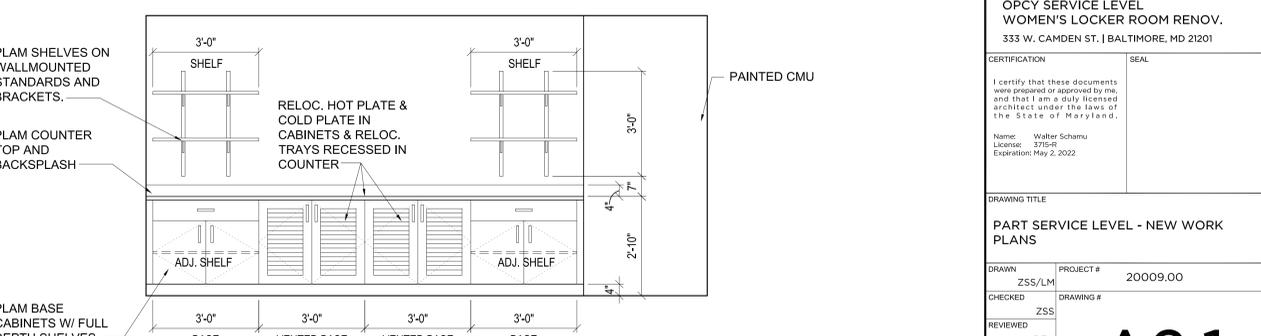
L12 PLAYER KITCHEN - SOUTH ELEVATION
1/2"=1'-0"



H11 PLAYER KITCHEN - NORTH ELEVATION
1/2"=1'-0"



D11 PLAYER KITCHEN - EAST ELEVATION
1/2"=1'-0"



A11 PLAYER KITCHEN - WEST ELEVATION
1/2"=1'-0"

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License: 3755-R
Expiration: May 2, 2022

DRAWING TITLE
PART SERVICE LEVEL - NEW WORK PLANS

DRAWN: ZSS/LM PROJECT #: 20009.00
CHECKED: ZSS DRAWING #
REVIEWED: REM
DATE: 10/14/2020
SCALE: AS NOTED

A2.1

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

Printed By: Nick H. Johnson 1/10/23 10:20:12 AM
ARL: G:\20262\01\Drawings\Arch\WOMEN MECH LEGEND

MECHANICAL ABBREVIATIONS					
AIR CHANGES / HOUR	AC / HR	EXHAUST FAN	EF	NORMALLY CLOSED	NC
AIR COOLED CONDENSING UNIT	ACCU	ENERGY MANAGEMENT CONTROL SYSTEM	EMCS	NOT IN CONTRACT	NIC
AIR FOIL	AF	EXTERNAL STATIC PRESSURE	ESP	NORMALLY OPEN / NUMBER	NO
ABOVE FINISHED FLOOR	AFF	EXISTING TO REMAIN	ETR	OUTSIDE AIR	OA
AIR FLOW MONITOR	AFM	ENTERING WATER TEMPERATURE	EWT	OPEN END DUCT	OED
AIR HANDLING UNIT	AHU	FLEXIBLE CONNECTION / FORWARD CURVED	FC	POUNDS PER SQUARE INCH	PSI
AIR PRESSURE DROP	APD	FAN COIL UNIT	FCU	PRESSURE	PRESS
ARCHITECTURAL	ARCH	FULL LOAD AMPS	FLA	PUMPED DISCHARGE	PD
AUTOMATIC TEMPERATURE CONTROLS	ATC	FINS PER INCH	FPI	QUANTITY	QTY
AIR TERMINAL UNIT	ATU	FEET PER MINUTE	FFM	RETURN AIR	RA
BUILDING AUTOMATION SYSTEM	BAS	FEET	FT	RETURN AIR FAN	RAF
BACK-FLOW PREVENTER	BFP	FACE VELOCITY	FV	RELATIVE HUMIDITY	RH
BRAKE HORSEPOWER	BHP	GALLON(S)	GAL	REVOLUTIONS PER MINUTE	RPM
BACKWARD INCLINED	BI	GRAVITY HOOD (INTAKE OR RELIEF)	GH	ROOF TOP UNIT	RTU
BRITISH THERMAL UNIT	BTU	GALLONS PER MINUTE	GPM	REMOVE EXISTING	RX
BRITISH THERMAL UNITS PER HOUR	BTUH	HEIGHT	H	SUPPLY AIR	SA
CAPACITY	CAP	HORSEPOWER	HP	STATIC PRESSURE	SP
CUBIC FEET PER HOUR	CFH	HEATING WATER SUPPLY	HS	STEAM	STM
CUBIC FEET PER MINUTE	CFM	HEATING WATER RETURN	HR	TESTING AND BALANCING	TAB
COLD WATER (DOMESTIC)	CW	HEATER	HTR	TOTAL STATIC PRESSURE	TSP
CHILLED WATER SUPPLY	CWS	HERTZ	HZ	TYPICAL	TYP
CHILLED WATER RETURN	CWR	INCH(ES)	IN	UNLESS OTHERWISE NOTED	UON
CONNECT TO EXISTING	CX	KILOWATT	KW	VOLTS	V
DRY BULB	DB	LENGTH	L	VARIABLE AIR VOLUME	VAV
DESIGNATION	DESIG	LEAVING AIR TEMPERATURE	LAT	VARIABLE FREQUENCY DRIVE	VFD
DOMESTIC HOT WATER	DHW	POUNDS	LBS	WIDTH	W
DIAMETER	DIA	LEAVING WATER TEMPERATURE	LWT	WET BULB	WB
DOWN	DN	MAXIMUM	MAX	WATER COLUMN	WC
DIFFERENTIAL PRESSURE SENSOR	DPS	THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH	WATER GAUGE	WG
DRAWING(S)	DWG	MINIMUM CIRCUIT AMPACITY	MCA	WATER PRESSURE DROP	WPD
EXHAUST AIR	EA	MAXIMUM FUSE SIZE	MFS		
ENTERING AIR TEMPERATURE	EAT	MINIMUM	MIN		
ENERGY EFFICIENCY RATIO	EER	MAXIMUM OVERCURRENT PROTECTION	MOP		

MECHANICAL LEGEND			
CHECK VALVE		DUCTWORK TO BE REMOVED	
BALL VALVE		OPEN ENDED DUCT	
GATE VALVE		DUCTWORK WITH SOUND LINING	
BUTTERFLY VALVE		FLEXIBLE DUCT AND EQUIPMENT CONNECTOR	
GLOBE VALVE		NEW DUCTWORK	
BALANCING VALVE W/ FLOW METER FITTING (VENTURI TYPE)		DUCT TRANSITION ROUND TO RECTANGULAR	
MULTI-PURPOSE VALVE		DUCT TRANSITION	
3-PORT MODULATING CONTROL VALVE		CHANGE IN DUCT ELEVATION (R-RISE, D-DROP)	
2-PORT MODULATING CONTROL VALVE		DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)	
RELIEF VALVE		LINEAR SLOT DIFFUSER	
PIPING CAP		BALANCING DAMPER	
CONCENTRIC REDUCER		MOTOR OPERATED DAMPER	
ECCENTRIC REDUCER		FIRE DAMPER WITH ACCESS PANEL	
MANUAL AIR VENT		COMBINATION FIRE/SMOKE DAMPER WITH SMOKE DETECTORS AND ACCESS PANEL	
AUTOMATIC AIR VENT		FIRE DETECTOR (FIRESTAT)	
PIPE GUIDE OR SLEEVE		SMOKE DETECTOR	
PIPING ELBOW DOWN		THERMOSTAT	
PIPING ELBOW UP		LIMIT OF DEMOLITION	
PIPE CONNECTION BOTTOM		CONNECT TO EXISTING	
PIPE CONNECTION TOP		FAN SWITCH	
SUPPLY AIR & OUTSIDE AIR DUCT UP (DASHED LINES FOR DOWN)		DOOR LOUVER	
RETURN DUCT UP (DASHED LINES FOR DOWN)		UNDERCUT DOOR	
EXHAUST DUCT UP (DASHED LINES FOR DOWN)		BACKFLOW PREVENTER	
FLEXIBLE CONNECTION		BUCKET STRAINER	
FLEXIBLE DUCT		Y-STRAINER WHOSE-END VALVE	
DOUBLE THICKNESS TURNING VANES		FLANGED CONNECTION	
EXISTING DUCTWORK		GAUGE AND VALVE	
CHILLED WATER SUPPLY	CWS	INLINE CIRCULATING PUMP	
CHILLED WATER RETURN	CWR	TEMPERATURE/PRESSURE TEST PORT	
PUMPED DISCHARGE	PD	TEE	
HEATING WATER SUPPLY	HS		
HEATING WATER RETURN	HR		
CONDENSATE DRAIN LINE	CD		
THERMOMETER			
UNION			

MECHANICAL GENERAL NOTES

1. THE MECHANICAL AND PLUMBING CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE SCOPE AND THE GENERAL ARRANGEMENT OF THE SYSTEMS. WHERE APPLICABLE THE FOLLOWING NOTES SHALL APPLY TO ALL MECHANICAL (HVAC AND PIPING) SYSTEMS.
2. THOUGH SOME DUCTWORK AND PIPING OFFSETS AND TRANSITIONS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS AND TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
3. PROVIDE APPROVED FIRE STOPPING MATERIAL AROUND ALL DUCTWORK AND PIPING PENETRATIONS (NEW AND EXISTING) THROUGH FIRE RATED FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FLOORS AND FIRE RATED WALLS AND FIRE/SMOKE DAMPERS AT ALL PENETRATIONS THROUGH SHAFT ENCLOSURES.
4. SUPPORT ALL EQUIPMENT (I.E. HEATERS, ETC.) FROM STRUCTURE WITH SPECIFIED VIBRATION ISOLATION.
5. PROVIDE ACCESS PANELS WHERE REQUIRED FOR ADEQUATE ACCESS TO ALL CONCEALED EQUIPMENT, VALVES, DAMPERS AND CONTROLS.
6. ALL DUCT SIZES REFER TO INTERNAL FREE AREA. REFER TO DRAWINGS AND SPECIFICATIONS FOR INTERNAL INSULATION AND SOUND LINING PRIOR TO FABRICATION.
7. ALL DUCTWORK SHALL BE CONSTRUCTED OF RIGID SHEET METAL UNLESS OTHERWISE NOTED.
8. REFER TO DOOR SCHEDULE ON ARCHITECTURAL DRAWINGS FOR UNDER CUT DIMENSIONS AND DOOR LOUVER SIZES.
9. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS AND BORDER TYPES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
10. INSTALL DUCTWORK AND PIPING MAINS TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
11. REFER TO MECHANICAL DETAILS FOR TYPICAL EQUIPMENT CONNECTIONS.
12. PIPING CONNECTIONS TO HEATING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
13. PATCH AND SEAL ALL REMAINING OPENINGS (NEW AND EXISTING) THROUGH FLOORS, CEILINGS AND WALLS RESULTING FROM DEMOLITION OR NEW WORK WITH MATERIALS AND FINISHES TO MATCH EXISTING CONSTRUCTION AND FIRE RATING.
14. AS AN INTEGRAL PART OF THESE DOCUMENTS, THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. PRIOR TO THE BALANCING OF SYSTEMS BY THE AABC CERTIFIED BALANCING CONTRACTOR, ALL HIGH PRESSURE AND LOW PRESSURE SYSTEMS SHALL BE TESTED BY THE MECHANICAL CONTRACTOR FOR DUCT LEAKAGE. DUCT LEAKAGE SHALL NOT EXCEED 1% FOR A DURATION OF TEN (10) MINUTES. SEE SPECIFICATIONS FOR ADDITIONAL TESTING CRITERIA. INSULATION MATERIALS SHALL NOT BE APPLIED UNTIL SYSTEMS HAVE BEEN WITNESSED, DOCUMENTED AND SUBMITTED TO MEET THE ABOVE TESTING REQUIREMENTS. REFER SPECIFICATIONS FOR SYSTEMS INDICATED AS LOW PRESSURE OR HIGH PRESSURE. THE BALANCE CONTRACTOR SHALL WITNESS AND CERTIFY ALL DUCT PRESSURE TESTS.
16. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO THE BEGINNING OF ANY WORK. FAILURE TO VISIT THE SITE SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY.
17. CONTRACTOR SHALL USE CARE WHEN PERFORMING SELECTIVE DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO BUILDING FINISHES, EQUIPMENT, FURNITURE, STRUCTURE, AND MECHANICAL/ELECTRICAL SYSTEMS AND EQUIPMENT. SHOULD ANY DAMAGE OCCUR THE CONTRACTOR SHALL RESTORE DAMAGED AREAS/ITEMS TO ORIGINAL CONDITION TO MEET THE OWNER'S SATISFACTION.
18. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER ANY UTILITY OUTAGES. OWNER SHALL BE GIVEN A MINIMUM OF 72 HOURS NOTICE (THREE WORKING DAYS) FOR ANY OUTAGES.
19. HVAC SHALL BE MAINTAINED TO ALL AREAS OUTSIDE OF THE CURRENT PHASE OF THE RENOVATED AREA AT ALL TIMES. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO COORDINATE OUTAGES WITH THE OWNER A MINIMUM OF 72 HOURS (THREE WORKING DAYS) IN ADVANCE.
20. DEMOLITION AND NEW WORK THAT WILL RESULT IN DOWN TIME OF SERVICES (HVAC, PLUMBING, ETC.) SHALL BE PERFORMED AT PREMIUM TIME AS REQUIRED TO MINIMIZE DOWN TIME TO ADJACENT SPACES. COORDINATE ALL OUTAGES WITH OWNER.
21. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION. ALL WORK AND ASSOCIATED OUTAGES SHALL BE COORDINATED WITH THE PHASING SCHEDULE AND THE OWNER.
22. SCHEDULE ALL WORK IN OCCUPIED SPACES WITH OWNER AT LEAST TWO (2) WEEKS PRIOR TO CONSTRUCTION.
23. CONTRACTOR SHALL PRE-TEST AHU-4 (LOCATED IN MECHANICAL ROOM NO. 6) TO DOCUMENT EXISTING AIR FLOW (CFM) AND TOTAL STATIC PRESSURE DROP PRIOR TO START OF WORK. PROVIDE DOCUMENTATION OF TEST TO THE ENGINEER AND OWNER.
24. CONTRACTOR SHALL REBALANCE EXISTING AHU-4 TO OBTAIN AIR QUANTITIES INDICATED. PROVIDE SHEAVE AND BELT ADJUSTMENT AND / OR REPLACEMENT AS REQUIRED. CLEAN EXISTING FAN AND REPAIR / REPLACE EXISTING FLEXIBLE DUCT CONNECTIONS.
25. CONTRACTOR SHALL TEST/BALANCE ALL AIR AND HYDRONIC EQUIPMENT AND DEVICES INDICATED ON THE DOCUMENTS. AIR SYSTEM EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: AIR HANDLING EQUIPMENT (AHU'S, ETC.), AIR DEVICES, DUCT MOUNTED VOLUME DAMPERS, HOODS, ETC. HYDRONIC EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: COILS, BALANCING VALVES, ETC. BALANCE ALL EQUIPMENT AND DEVICES TO THE AIR/WATER FLOWS (CFM OR GPM) INDICATED ON THE DOCUMENTS (WHERE FLOWS ARE NOT CLEARLY INDICATED, CONTACT THE A/E FOR CLARIFICATION).
26. WHERE PENETRATIONS OF STRUCTURAL SLAB, WALLS, ETC. ARE ANTICIPATED, PROVIDE GROUND PENETRATING RADAR (GPR), OR OTHER APPROVED METHODS, TO DETERMINE THE LOCATION OF STRUCTURAL REINFORCEMENT. COORDINATE ALL PENETRATIONS WITH STRUCTURAL REINFORCEMENT AS REQUIRED TO AVOID DAMAGE TO THE REINFORCEMENT AS WELL AS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL SLABS, WALLS, ETC. SUBMIT TO OWNER AND STRUCTURAL ENGINEER FOR REVIEW.
27. CONTRACTOR SHALL REMOVE, REINSTALL AND/OR RELOCATE ANY EXISTING CONDUIT, PIPING SYSTEMS, DUCTWORK, TELECOMMUNICATIONS WIRING, HANGERS/SUPPORTS, ETC. AS REQUIRED TO ACCOMPLISH THE MECHANICAL WORK INDICATED.

AIR DEVICE SCHEDULE									
DESIG	DUTY	SIZE (IN)	CFM RANGE	INLET / NECK SIZE (IN)	MAX SP	MAX NC	DESCRIPTION	BASIS OF DESIGN	
								MANUFACTURER	MODEL
A	SUPPLY	24 x 24 MODULE	0 - 120	6"Ø	0.10"	25	PERFORATED FACE (FLUSH)	TITUS	PAS

NOTE: ALL AIR DEVICES SHALL BE ALUMINUM.

HOT WATER HEATING COIL SCHEDULE													
DESIG	AREA SERVED	AIR FLOW					WATER FLOW			PIPE SIZE	ASSOCIATED AHU	BASIS OF DESIGN	
		CFM	EAT (°F)	LAT (°F)	BTU / HR	MAX APD (IN)	GPM	EWT (°F)	LWT (°F)				MAX WPD (FT)
RH-21	LOCKER ROOMS	200	55	85	6,480	0.1	0.4	180	140	0.5	3/4"	AHU-4	COIL COMPANY HCS

NOTES:
1. PROVIDE DUCT TRANSITION TO AND FROM HEATING COIL AS REQUIRED.

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	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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INTERIOR DESIGN
AUMEN ASNER, INC.
100 NORTH CHARLES STREET, SUITE 910
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TEL: 410-837-2767

PROJECT
OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV.
333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION
PROFESSIONAL CERTIFICATION
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.
NAME: MARK A. FLICKINGER
LICENSE NO. 20190
EXPIRATION DATE: 09/11/21

MECHANICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES

DRAWN: NHJ PROJECT #: 20009.00
CHECKED: CMP DRAWING #
REVIEWED: MAF
DATE: 10/14/2020
SCALE: AS NOTED

MO.1
BKM# 20062.01



1 PART SERVICE LEVEL PLAN - MECHANICAL - DEMOLITION
SCALE: 1/8" = 1'-0"

DEMOLITION DRAWING NOTES:

1. EXISTING 5" CWS, 5" CWR, 4" HWS, 4" HWR, 2" HWS, AND 2" HWR PIPING TO REMAIN.
2. PIPING CONTINUED OUTSIDE OF WORK AREA.
3. DUCTWORK CONTINUED OUTSIDE OF WORK AREA.
4. EXISTING FANS AND MAINTENANCE PLATFORM ABOVE CEILING TO REMAIN.
5. REMOVE EXISTING EXHAUST DUCTWORK UP TO POINT INDICATED.
6. REMOVE EXISTING SUPPLY DUCTWORK UP TO POINT INDICATED.
7. EXISTING EXHAUST DUCTWORK TO REMAIN.
8. EXISTING SUPPLY DUCTWORK TO REMAIN.
9. EXISTING THERMOSTAT TO REMAIN.
10. EXISTING HYDRONIC HEATING COIL TO REMAIN. PROVIDE PRE-DEMO TESTING OF COIL, RH-19 & RH-20 AND ASSOCIATED AIR DEVICES.
11. REMOVE EXISTING AIR DEVICE AND SAVE FOR REUSE. SEE NEW WORK PLAN FOR LOCATION.
12. EXISTING 1 1/2" HWS AND HWR PIPING TO REMAIN.
13. EXISTING 3" HWS AND HWR PIPING TO REMAIN.
14. EXISTING AIR DEVICE TO REMAIN.
15. REMOVE EXISTING AIR DEVICE AND TURN OVER TO MSA.

GENERAL NOTES:

1. REFER TO M0.1 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2 PART SERVICE LEVEL PLAN - MECHANICAL - NEW WORK
SCALE: 1/8" = 1'-0"

NEW WORK DRAWING NOTES:

1. EXISTING 5" CWS, 5" CWR, 4" HS, 4" HR, 2" HS, AND 2" HR PIPING TO REMAIN.
2. PIPING CONTINUED OUTSIDE OF WORK AREA.
3. DUCTWORK CONTINUED OUTSIDE OF WORK AREA.
4. EXISTING FANS AND MAINTENANCE PLATFORM ABOVE CEILING.
5. RELOCATE AIR DEVICE TO THIS LOCATION. BALANCE TO PRECONSTRUCTION CFM.
6. SUPPLY AIR DEVICE. BALANCE TO CFM SHOWN.
7. EXISTING EXHAUST DUCTWORK TO REMAIN.
8. EXISTING SUPPLY DUCTWORK TO REMAIN.
9. EXISTING THERMOSTAT TO REMAIN.
10. EXISTING HYDRONIC HEATING COIL TO REMAIN. PROVIDE COIL CLEANING FOR RH-19 & RH-20. BALANCE TO PRECONSTRUCTION CFM & GPM.
11. HYDRONIC HEATING COIL RH-21. COORDINATE FINAL LOCATION IN THE FIELD TO ALLOW FOR SERVICE CLEARANCES. BALANCE HEATING WATER TO 0.4 GPM.
12. THERMOSTAT TO SERVE RH-21. CONNECT TO BUILDING BAS.
13. EXISTING 1 1/2" HS AND HR PIPING.
14. EXISTING 3" HS AND HR PIPING.
15. EXISTING SUPPLY AIR DEVICE. BALANCE TO PRECONSTRUCTION CFM.
16. SUPPLY AIR DEVICE. BALANCE TO PRECONSTRUCTION CFM.
17. 3/4" HS & HR TO RH-21.
18. RELOCATE AIR DEVICE TO THIS LOCATION. BALANCE TO CFM SHOWN.

ROOM NAME LIST	
1.25.03	PLAYER KITCHEN
1.25.04	PLAYER LOUNGE
1.25.05	TRAINING
1.25.06	TOILET
1.25.07	CORRIDOR
1.26.07	STORAGE
1.26.08	TOILET
1.26.09	TOILET
1.26.10	COACHES LOCKER RM
1.26.11	CORRIDOR
1.26.12	TRAINING ROOM
1.26.13	AUXILIARY LOCKER RM
1.26.14	JAN.
1.26.15	ADA RESTROOM
1.26.16	ADA RESTROOM
1.26.17	WOMENS LOCKER RM
1.26.18	ADA SHOWER ROOM

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NAME: MARK A. FLICKINGER
LICENSE NO. 20190
EXPIRATION DATE: 09/11/21

DRAWING TITLE
PART SERVICE LEVEL
MECHANICAL
DEMOLITION & NEW WORK

DRAWN NHJ PROJECT # 20009.00
CHECKED CMP DRAWING #
REVIEWED MAF
DATE 10/14/2020
SCALE AS NOTED

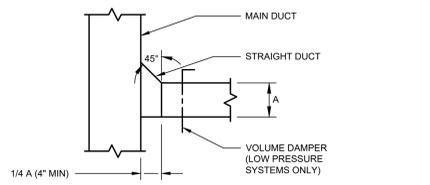


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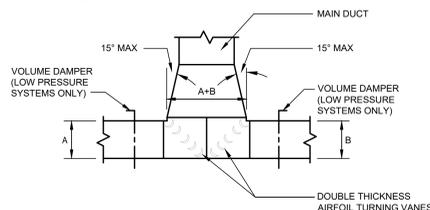
OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

M1.1

BKM# 20062.01

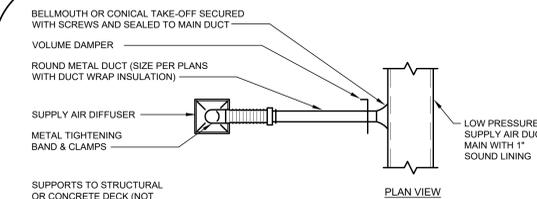


MINOR DUCT BRANCH DETAIL
NO SCALE

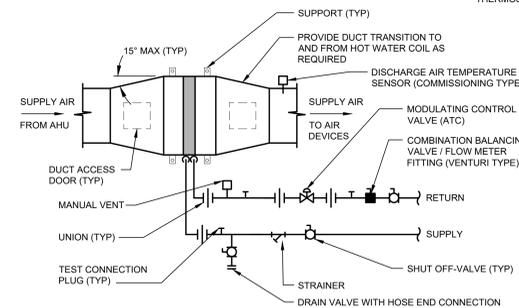


1 RECTANGULAR ELBOW DUCT TEE DETAIL
NO SCALE

NOTE: THIS DETAIL APPLIES TO BOTH ELBOWS & TEES IN VERTICAL AND HORIZONTAL APPLICATIONS.



2 ROUND NECK DIFFUSER DETAIL
NO SCALE



3 DUCT MOUNTED HEATING WATER COIL DETAIL
NO SCALE

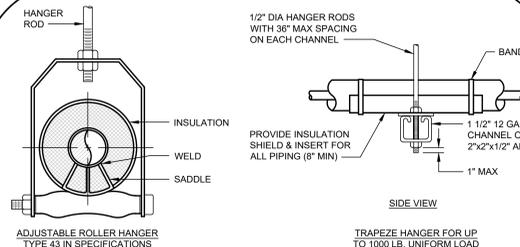
SPACE CONTROL
M2016

- A. HEATING WATER HEATING COIL:
- SPACE THERMOSTAT SHALL MODULATE HEATING COIL TWO-WAY VALVE TO MAINTAIN TEMPERATURE SETPOINT.
 - HEATING WATER COIL SHALL BE CONNECTED TO THE BAS FOR CONTROL AND MONITORING.
- B. GENERAL:
- EACH THERMOSTAT SHALL HAVE INDIVIDUAL OCCUPIED AND UNOCCUPIED HEATING AND COOLING SETPOINTS. ALL SETPOINTS SHALL BE ADJUSTABLE THROUGH THE EMCS. DEFAULT VALUES SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

HEATING - OCCUPIED:	70°F (ADJUSTABLE)
HEATING - UNOCCUPIED:	60°F (ADJUSTABLE)
COOLING - OCCUPIED:	75°F (ADJUSTABLE)
COOLING - UNOCCUPIED:	80°F (ADJUSTABLE)
 - EACH THERMOSTAT SHALL BE CAPABLE OF INDIVIDUAL TIME OF DAY SCHEDULING.

ATC GENERAL NOTES
M2023

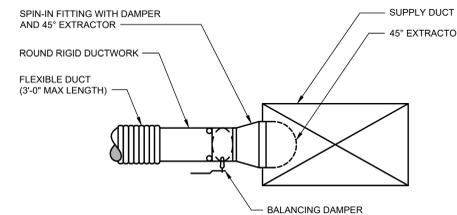
- THE ATC WORK SHALL INCLUDE MODIFICATIONS TO THE EXISTING BUILDING AUTOMATION SYSTEM (BAS) BY SIEMENS, INCLUDING ALL DEVICES REQUIRED TO ACHIEVE THE SEQUENCES AND FUNCTIONS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS. CONNECT THROUGH THE EXISTING SIEMENS BAS SYSTEM.
- THE ATC CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WIRING AND CONDUIT FROM POWER SOURCE, INCLUDING TERMINATION TO ALL REQUIRED ATC RELATED POWER CONNECTIONS INCLUDING, BUT NOT LIMITED TO SENSORS, VALVE AND DAMPER ACTUATORS, ETC. THE ATC CONTRACTOR SHALL OBTAIN A SEPARATE ELECTRICAL PERMIT AS REQUIRED BY THE LOCAL AUTHORITY. THE ATC CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL POWER REQUIREMENTS NECESSARY FOR A COMPLETE INSTALLATION FROM THE POWER SOURCE TO ALL ATC RELATED CONNECTIONS.
- THE ATC CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL CONTROLLERS, DEVICES AND ACCESSORIES ARE PROVIDED AS REQUIRED TO ACCOMPLISH ALL CONTROL FUNCTIONS AND SEQUENCES INDICATED IN THE CONTRACT DOCUMENTS. WHERE CONTROL RELATED DEVICES ARE NOT PROVIDED BY AN EQUIPMENT MANUFACTURER, IT SHALL BE THE RESPONSIBILITY OF THE ATC CONTRACTOR TO PROVIDE THE CONTROL DEVICES REQUIRED TO ACCOMPLISH THE FUNCTIONS AND SEQUENCES INDICATED.
- THE ATC CONTRACTOR SHALL PROVIDE ALL CONTROLLERS, DEVICES, POINTS, ETC REQUIRED TO ACCOMPLISH THE CONTROL SEQUENCES AND FUNCTIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. ALL POINTS SHALL BE TIED INTO THE ENERGY MANAGEMENT CONTROL SYSTEM (EMCS). IN ADDITION, THE ATC CONTRACTOR SHALL PROVIDE ALL CONTROLLERS, DEVICES, POINTS, ETC REQUIRED TO CONTROL, OPERATE AND MONITOR ALL EQUIPMENT (IE VALVES, DAMPERS, FLOW MEASURING DEVICES, SENSORS, ETC.) INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
- PROVIDE TEMPERATURE SENSOR IN SUPPLY DUCTWORK DOWNSTREAM OF ALL DUCT MOUNTED HEATING COILS.
- WATER PRESSURE DROP THROUGH ATC CONTROL VALVES SHALL NOT EXCEED 10 FT. HEAD. TWO-POSITION ATC VALVES UTILIZED FOR ISOLATION, BY-PASS OR SHUT-OFF PURPOSES SHALL BE FULL LINE SIZE.
- ALL SETPOINTS INDICATED ON THE SEQUENCES SHALL BE ADJUSTABLE.
- ALL ATC WIRING SHALL BE INSTALLED IN CONDUIT.



4 TYPICAL PIPE HANGERS DETAIL
NO SCALE

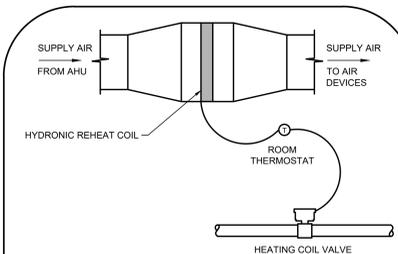
MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET										
NOM. SIZE (IN)	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
PIPE	7 FT	7	7	9	10	11	12	14	16	17
TUBING	5 FT	6	7	8	8	9	10	12	13	14

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



5 SPIN-IN FITTING DETAIL
NO SCALE

- NOTES:
- USE SPIN-IN FITTING WHERE TAP SIZE IS 2" SMALLER THAN DUCT RAIL DIMENSION.
 - USE BELLMOUTH FITTING WHERE TAP SIZE IS 3" SMALLER THAN DUCT RAIL DIMENSION.
 - ALL CONNECTIONS SHALL BE CONSISTENT WITH FIRE RATING.



HYDRONIC REHEAT COIL CONTROL
M2009

- ON A FALL IN TEMPERATURE, SPACE THERMOSTAT SHALL MODULATE HEATING COIL VALVE TO MAINTAIN SETPOINT.
- ON A RISE IN TEMPERATURE THE OPPOSITE SHALL OCCUR.

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	100% CD SUBMISSION	10/14/2020

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PROFESSIONAL CERTIFICATION
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NAME: MARK A. FLICKINGER
LICENSE NO. 20180
EXPIRATION DATE: 09/11/21

DRAWING TITLE
MECHANICAL DETAILS & ATC

DRAWN	PROJECT #	20009.00
CHECKED	DRAWING #	
REVIEWED	MAF	
DATE	10/14/2020	
SCALE	AS NOTED	

M2.1
BKM # 20062.01

MECHANICAL SPECIFICATIONS
1. BASIC MECHANICAL REQUIREMENTS
1.1 CONTRACT DOCUMENTS
A. CONTRACT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT...

4. SANITARY, VENT AND STORM WATER PIPING:
a. ABOVEGROUND (INSIDE BUILDING) 1/2" (20 MM) AND SMALLER: SERVICE WEIGHT HUBLESS CAST-IRON SOIL PIPE, HUBLESS CAST-IRON SOIL PIPE FITTINGS, NO-HUB JOINTS.
b. UNDERGROUND (1 1/2" AND SMALLER) (375 MM AND SMALLER): SERVICE WEIGHT CAST-IRON HUB AND SPIGOT SOIL PIPE, CAST-IRON, HUB AND SPIGOT SOIL PIPE FITTINGS, COMPRESSION GASKET JOINTS.

4. VALVE TAGS:
a. BRASS VALVE TAGS: PROVIDE 19-GAGE (1.2 MM) POLISHED BRASS VALVE TAGS WITH STAMP-ENGRAVED PIPING SYSTEM ABBREVIATION IN 1/4" (6 MM) HIGH, AND WITH 5/32" (4 MM) HOLE FOR FASTENERS.
b. PROVIDE 1-1/2" (40 MM) DIAMETER TAGS, EXCEPT AS OTHERWISE INDICATED.

C. INSTALL TURNING VANES IN SQUARE OR RECTANGULAR 90 DEGREE ELBOWS IN SUPPLY, RETURN AND EXHAUST AIR SYSTEMS, AND ELSEWHERE AS INDICATED.
D. PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTS TO VIBRATION ISOLATED EQUIPMENT. CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAME RETARDANT FABRIC CRIMPED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT.

Table with 2 columns: DUCT, INSERTION LOSS (DB). Rows for duct sizes 6, 8, 10, 12 and insertion loss values at 125, 250, 500, 1000, 2000, 4000 Hz.

7.3. HYDRONIC HEATING COILS
A. GENERAL: PROVIDE COILS OF SIZE AND IN LOCATION INDICATED, AND OF CAPACITIES AND HAVING PERFORMANCE DATA AS SCHEDULED. CERTIFY COIL CAPACITIES, PRESSURE DROPS, AND SELECTION PROCEDURES IN ACCORDANCE WITH ARI 410.

1. FINIS: CONSTRUCT OF CONTINUOUS ALUMINUM OR COPPER CONFIGURATED PLATE-FIN TYPE WITH FULL FIN COLLARS FOR ACCURATE SPACING AND MAXIMUM FIN-TUBE CONTACT.
2. TUBES: CONSTRUCT OF COPPER TUBING, EXPANDED INTO FIN COLLARS FOR PERMANENT FIN-TUBE BOND AND EXPANDED INTO HEADER FOR PERMANENT LEAKTIGHT JOINT.

1. PERFORATED: SQUARE, HOUSING COVERING WITH REMOVABLE PERFORATED PANEL IN FRAME, CONCEAL AIR PATTERN DEVICES ABOVE PANEL.
2. DIFFUSERS, REGISTERS AND GRILLES SHALL BE AS MANUFACTURED BY TITUS, KRUEGER, PRICE, OR NAILOR.

8.4 BUILDING MANAGEMENT AND CONTROL SYSTEM DEVICES AND POINTS
A. PROVIDE ALL BUILDING MANAGEMENT AND AUTOMATIC CONTROL SYSTEM CONTROLLERS, DEVICES, POINTS, ETC. AS REQUIRED TO ACCOMPLISH THE CONTROL SEQUENCES AND EQUIPMENT FUNCTIONS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS, INCLUDING DRAWINGS AND SPECIFICATIONS.

Prepared By: Nick H. Johnson 10/13/2020 12:29 PM
REV: 6: 10/13/2020 12:29 PM

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OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

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LIMITED TO: VALVES, DAMPERS, SENSORS, ETC.) ALL POINTS SHALL BE AVAILABLE THROUGH THE ENERGY MANAGEMENT CONTROL SYSTEM (EMCS).
B. BUILDING MANAGEMENT AND CONTROL POINTS SHALL INCLUDE STATUS FOR ALL MECHANICAL EQUIPMENT WITH EQUIPMENT FAILURES ALARMED AT THE EMCS. IN ADDITION, FURNISH AND INSTALL ALL POINTS REQUIRED TO PROVIDE COMPLETE, COLOR, SYSTEM GRAPHICS OF ALL MECHANICAL SYSTEMS AND COMPONENTS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS. ALL EQUIPMENT AND DEVICES INDICATED THROUGHOUT THE CONTRACT DOCUMENTS SHALL BE INDICATED AT THE OPERATOR'S WORKSTATION (WHERE APPLICABLE) AND ALL END DEVICES SHALL BE INDIVIDUALLY CONTROLLED UNLESS SPECIFICALLY INDICATED OTHERWISE.
C. BUILDING MANAGEMENT AND CONTROL SYSTEM FEATURES FOR EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING WHERE APPLICABLE: RUNTIME, TREND DATA, OPTIMAL START, SCHEDULING, PAGING, SYSTEM GRAPHICS, AND INTERNET ACCESS TO GRAPHIC AND TEXT-BASED DISPLAYS.

9 - TESTING, ADJUSTING AND BALANCING

9.1 DESCRIPTION OF WORK

- A. EXTENT OF TESTING, ADJUSTING AND BALANCING (TAB) WORK REQUIRED IS INDICATED ON DRAWINGS AND SCHEDULES, AND IS DEFINED TO INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, AIR DISTRIBUTION SYSTEMS, HYDRONIC DISTRIBUTION SYSTEMS, AND ASSOCIATED EQUIPMENT AND APPARATUS OF MECHANICAL WORK. THE WORK CONSISTS OF SETTING SPEED AND VOLUME (FLOW), ADJUSTING FACILITIES PROVIDED FOR SYSTEMS, RECORDING DATA, CONDUCTING TESTS, PREPARING AND SUBMITTING REPORTS, AND RECOMMENDING MODIFICATIONS TO WORK AS REQUIRED BY CONTRACT DOCUMENTS.
- B. TESTING OF ALL DUCTWORK AND PIPING SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARD TESTING REQUIREMENTS OR AS INDICATED OTHERWISE.
- C. CONTRACTOR SHALL TEST/BALANCE ALL AIR AND HYDRONIC EQUIPMENT AND DEVICES INDICATED ON THE DOCUMENTS. AIR SYSTEM EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: AIR HANDLING EQUIPMENT (AHUS, ETC.), AIR DEVICES, DUCT MOUNTED VOLUME DAMPERS, HOODS, ETC. HYDRONIC EQUIPMENT AND DEVICES SHALL INCLUDE BUT NOT BE LIMITED TO: PUMPS, COILS, BALANCING VALVES, ETC. BALANCE ALL EQUIPMENT AND DEVICES TO THE AIR/WATER FLOWS (CFM OR GPM) INDICATED ON THE DOCUMENTS (WHERE FLOWS ARE NOT CLEARLY INDICATED, CONTACT THE A/E FOR CLARIFICATION).
- D. THE COMPLETE VERIFICATION OF EACH CONTROL FUNCTION SHALL BE INCLUDED IN A FINAL TEST REPORT AND THE OPERATIONS AND MAINTENANCE MANUALS. VERIFICATION OF EACH CONTROL FUNCTION SHALL INCLUDE AN ITEMIZED LIST OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL DEVICE, THE DATE OF THE VERIFICATION AND THE INITIALS OF THE INDIVIDUALS WHO VERIFIED THE PROPER OPERATION OF THE CONTROL FUNCTION. AT A MINIMUM, TWO (2) INDIVIDUALS, THE BALANCE CONTRACTOR AND THE CONTROL MANUFACTURER, SHALL PERFORM, WITNESS AND VERIFY THE PROPER OPERATION OF EACH CONTROL FUNCTION INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS FROM SOURCE EQUIPMENT (AIR HANDLING UNITS, ETC.) TO EACH ROOM CONTROL FUNCTION (THERMOSTAT, HEATING VALVE, ETC.). PRIOR TO THE VERIFICATION PROCESS, THE OWNER SHALL BE GIVEN THE OPTION TO PROVIDE REPRESENTATIVE(S) TO WITNESS THE VERIFICATION OF ANY OR ALL EQUIPMENT/CONTROL FUNCTIONS.

9.2 QUALITY ASSURANCE

- A. TESTER'S QUALIFICATIONS: A FIRM CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL (AABC) IN THOSE TESTING AND BALANCING DISCIPLINES SIMILAR TO THOSE REQUIRED FOR THIS PROJECT, WHO IS NOT INSTALLER OF SYSTEM TO BE TESTED AND IS OTHERWISE INDEPENDENT OF THE PROJECT.
 - 1. AABC COMPLIANCE: COMPLY WITH AABC MANUAL "AABC NATIONAL STANDARDS", AS APPLICABLE TO MECHANICAL AIR AND HYDRONIC DISTRIBUTION SYSTEMS, AND ASSOCIATED EQUIPMENT AND APPARATUS.
 - 2. INDUSTRY STANDARDS: COMPLY WITH ASHRAE RECOMMENDATIONS PERTAINING TO MEASUREMENTS, INSTRUMENTS, AND TESTING, ADJUSTING AND BALANCING, EXCEPT AS OTHERWISE INDICATED.

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TEL 410-637-2767

PROJECT
OPCY SERVICE LEVEL
WOMEN'S LOCKER ROOM RENOV.
333 W. CAMDEN ST. | BALTIMORE, MD 21201

PROFESSIONAL CERTIFICATION
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.
NAME: RICHARD MILLER
LICENSE NO. 20513
EXPIRATION DATE: 07/17/2022

DRAWING TITLE
MECHANICAL SPECIFICATIONS

DRAWN	NHU	PROJECT #	20009.00
CHECKED	CMP	DRAWING #	
REVIEWED	MAF		
DATE	10/14/2020		
SCALE	AS NOTED		

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BKM# 20062.01

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OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

PLUMBING GENERAL NOTES

1. MAKE ALL WATER CONNECTIONS TO FIXTURES ABOVE FLOOR.
2. PROVIDE VACUUM BREAKERS ON ALL HOSE CONNECTION TYPE FITTING HOSE BIBBS, WALL HYDRANTS, ETC.
3. LIMIT SANITARY AND WASTE PIPING DEAD END TO 12 INCHES FROM MAIN OR MAIN BRANCH.
4. PROVIDE A MINIMUM OF 24 INCHES CLEARANCE FOR RODDING OF CLEANOUTS.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER DISCIPLINES PRIOR TO CONSTRUCTION.
6. ACCESS SHALL BE PROVIDED FOR ALL CONCEALED VALVES, CLEANOUTS ETC. LOCATED AT/IN CEILINGS, WALLS OR FLOORS.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS AND OTHER EQUIPMENT.
8. ALL FLOOR DRAINS AND SHOWER DRAINS CONNECTED TO THE SANITARY SHALL BE PROVIDED WITH A PRIMED TRAP UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL FLUSH TYPE CLEANOUTS WITH WALLS, EQUIPMENT, DUCTWORK, PIPE, STRUCTURAL MEMBERS, ETC.
10. ALL SPECIFICATIONS AND DRAWINGS (I.E., ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL) ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
11. COORDINATE ALL PIPING TO BE INSTALLED WITH OTHER TRADES (I.E., MECHANICAL, FIRE PROTECTION AND ELECTRICAL) TO ASSURE THAT ALL PIPING SYSTEMS ARE INSTALLED ABOVE FINISHED CEILING OR IN A CONCEALED SPACE. ALL CEILING HEIGHTS INDICATED ON ARCHITECTURAL AND/OR INTERIOR DESIGN DRAWINGS AND MINIMUM CLEARANCES REQUIRED BY LOCAL CODES SHALL BE MAINTAINED THROUGHOUT THE BUILDING.
12. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
13. PROVIDE ONE (1) TRAP PRIMER VALVE FOR EACH FLOOR DRAIN WITHOUT A CONSTANT SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. PRIMER VALVE SHALL BE LOCATED IN AN ACCESSIBLE AREA AND CONNECTED TO THE NEAREST 3/4" COLD WATER LINE SERVING A FIXTURE.
14. ALL PIPING, SYSTEMS, VALVES AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED.
15. COLD WATER SUPPLY MAINS AND BRANCHES SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS.
16. ALL PIPING VALVES, AND ACCESSORIES SERVING EQUIPMENT SHALL BE INSTALLED TO ALLOW SERVICING OR REMOVAL WITHOUT DISCONNECTING ALL PIPING ACCESSORIES.
17. ALL VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED".
18. EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED ON ALL PIPING SYSTEMS WHICH CROSS BUILDING EXPANSION JOINTS AND ALL HORIZONTAL AND VERTICAL PIPING LENGTHS EXCEEDING 100 FEET OR EACH PORTION THEREOF.
19. ALL ROUGH-IN AND FINAL CONNECTION FOR EQUIPMENT SPECIFIED BY OTHERS SHALL BE PROVIDED.
20. ALL EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED.
21. WATER SERVICES FOR MOVABLE APPLIANCES SHALL BE CONNECTED WITH FLEXIBLE TUBING AND QUICK DISCONNECT COUPLINGS PROVIDED BY EQUIPMENT SUPPLIER.
22. VERIFY EQUIPMENT LOCATIONS WITH OTHER CONSULTANTS OR SUPPLIERS BEFORE PROCEEDING WITH ANY ROUGH-IN.
23. ALL PIPING SHALL BE INSTALLED ABOVE CEILING OR IN A CONCEALED SPACE UNLESS NOTED OR INDICATED OTHERWISE.
24. THOUGH SOME PIPING OFFSETS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS THAT ARE REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE SYSTEM WITHOUT INTERFERENCES.
25. REMOVE ALL EXISTING PIPING ABOVE CEILINGS OR EXPOSED NOT TO REMAIN IN USE. DISCONNECT ABANDONED PIPING IN WALLS OR BELOW SLAB FROM DISTRIBUTION SYSTEM.
26. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING INVERTS, LOCATIONS AND SIZES OF PIPES, DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS PRIOR TO CONSTRUCTION.
27. CONTRACTOR SHALL REMOVE, REINSTALL AND/OR RELOCATE ANY EXISTING CONDUIT, PIPING SYSTEMS, DUCTWORK, TELECOMMUNICATIONS WIRING, HANGERS/SUPPORTS, ETC. AS REQUIRED TO ACCOMPLISH THE PLUMBING WORK INDICATED.

PLUMBING FIXTURE SCHEDULE								
DESIG	DESCRIPTION	CW	HW	SAN	VENT	TRAP	FLOW	NOTES
WC-1	WATER CLOSET	1 1/4"	-	4"	2"	INT	128 GPF	1, 3, 4
L-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	*P	0.5 GPM	1, 2
SH-1	SHOWER	1/2"	1/2"	2" SD	2"	*P	1.5 GPM	1, 3

- NOTES:
1. ADA COMPLIANT.
 2. COUNTERTOP MOUNTED.
 3. WALL MOUNTED.
 4. REUSE EXISTING FIXTURE. CONTRACTOR SHALL CONFIRM ADA COMPLIANCE AND INSTALL PER ADA STANDARDS.

PLUMBING PIPE AND EQUIPMENT INSULATION SCHEDULE						
SYSTEM	PIPE SIZE	TYPE	THICKNESS	MAX K-VALUE @ 75°F	JACKET	NOTES
DOMESTIC COLD WATER	ALL SIZES	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2, 3
DOMESTIC HOT WATER AND RECIRCULATING	1" AND SMALLER	RIGID FIBERGLASS	1"	0.23	ASJ	1, 2, 3
	1 1/4" AND 1 1/2"		1 1/2"			
	2" AND LARGER		2"			

- NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS AS WELL AS DETAILED PRODUCT AND INSTALLATION REQUIREMENTS. WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
 2. ASJ (ALL SERVICE JACKET) SHALL INCLUDE VAPOR RETARDER.
 3. FOR PIPING INSTALLED BELOW 8'-0" ABOVE FINISHED FLOOR, PROVIDE PVC JACKET.

PLUMBING EQUIPMENT SCHEDULE			
DESIG	SERVICE	DESCRIPTION	BASIS OF DESIGN
DMV-1	DOMESTIC HOT WATER MIXING VALVE	MASTER DOMESTIC HOT WATER THERMOSTATIC MIXING VALVE, ASSE 1017 APPROVED WITH NICKEL PLATED ELEMENTS, RATED FOR 25 GPM MAXIMUM AND 1 GPM MINIMUM WITH A MAXIMUM PRESSURE LOSS OF 10 PSI AT 25 GPM FLOW.	LAWLER MODEL No. 802

PLUMBING DRAIN SCHEDULE					
ABBR	FIXTURE	AREA	BASIS OF DESIGN		NOTES
			MANUFACTURER	MODEL	
FD	FLOOR DRAIN	TOILET ROOMS	WATTS	FD-100-A	1, 2

- NOTE:
1. 1/2" TRAP PRIMING LINE
 2. ADJUSTABLE NICKEL BRONZE STRAINER

PLUMBING ABBREVIATIONS	
ABOVE FINISHED FLOOR	AFF
AIR HANDLING UNIT	AHU
BRAKE HORSEPOWER	BHP
BACKWATER VALVE	BWV
CONNECTION	CONN
COLD WATER (DOMESTIC)	CW
DESIGNATION	DESIG
EXISTING TO REMAIN	ETR
FEET	FT
FIRE LINE	F
FIRE DEPARTMENT VALVE	FDV
HORSEPOWER	HP
HOT WATER (DOMESTIC)	HW
HOT WATER RECIRCULATE	HWR
KILOWATT(S)	KW
POUNDS	LBS
MAXIMUM	MAX
THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH
NORMALLY CLOSED	NC
NOT IN CONTRACT	NIC
NORMALLY OPEN	NO
REDUCED PRESSURE ZONE BACKFLOW PREVENTER	RPZBP
REMOVE EXISTING	RX
REVOLUTIONS PER MINUTE	RPM
SANITARY	SAN
SHOWER DRAIN	SD
SPRINKLER	SP
STANDPIPE	STP
TRAP PRIMING LINE	TPL
UNLESS OTHERWISE NOTED	UON
VENT THRU ROOF	VTR
WASTE	W

PLUMBING LEGEND			
COLD WATER		TEMPERATURE/PRESSURE TEST PORT	
HOT WATER		THERMOMETER	
HOT WATER RECIRCULATION		WALL HYDRANT	
SANITARY		WATER HAMMER ARRESTOR	
VENT		FLOOR DRAIN	
BACKWATER VALVE		CONCENTRIC REDUCER	
BALL VALVE		ECCENTRIC REDUCER	
BALANCING VALVE W/ FLOW METER FITTING (VENTURI TYPE)		FLANGED CONNECTION	
BUTTERFLY VALVE		PIPE ANCHOR	
CHECK VALVE		PIPE GUIDE OR SLEEVE	
GATE VALVE		PIPING CAP	
GLOBE VALVE		PIPE CONNECTION BOTTOM	
GAS COCK		PIPE CONNECTION TOP	
OS & Y VALVE		PIPING ELBOW DOWN	
PRESSURE REGULATOR		PIPING ELBOW UP	
RELIEF VALVE		TEE	
SOLENOID VALVE		UNION	
BUCKET STRAINER		VALVE IN VERTICAL POSITION	
FLOW SWITCH		CONNECT TO EXISTING	
FLOOR CLEANOUT		LIMIT OF DEMOLITION	
WALL CLEANOUT			
HOSE BIBB			
HOSE-END VALVE			

NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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 THE STATE OF MARYLAND.
 NAME: MARK A. FLICKINGER
 LICENSE NO. 20190
 EXPIRATION DATE: 09/11/21

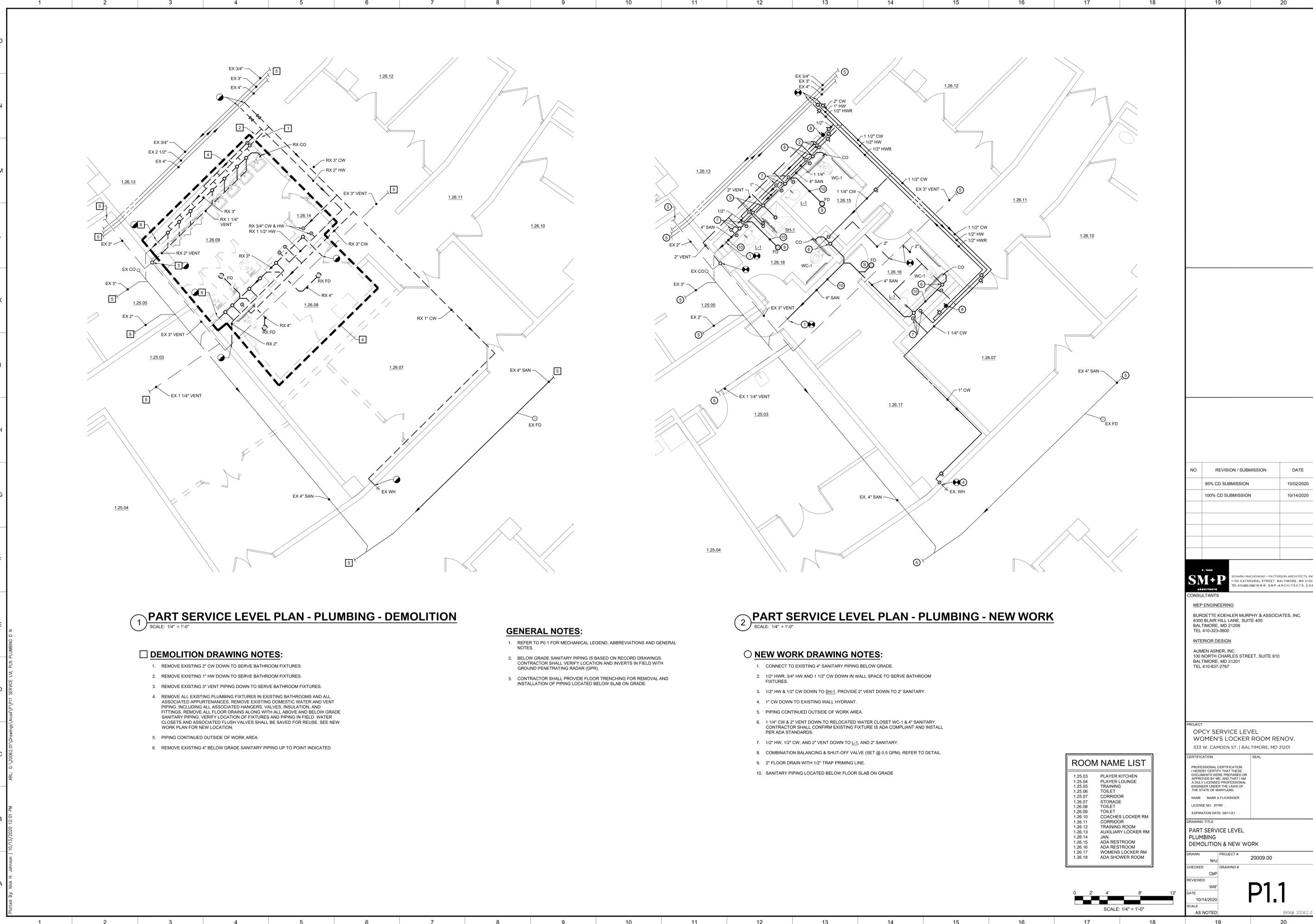
DRAWING TITLE
 PLUMBING LEGEND,
 ABBREVIATIONS, AND
 GENERAL NOTES

DRAWN	NHU	PROJECT #	20009.00
CHECKED	CMP	DRAWING #	
REVIEWED	MAF		
DATE	10/14/2020		
SCALE	AS NOTED		

P0.1

PLOTTED BY: MARK H. JOHNSON | 10/13/2020 12:01 PM
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OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.



1 PART SERVICE LEVEL PLAN - PLUMBING - DEMOLITION
SCALE: 1/4" = 1'-0"

DEMOLITION DRAWING NOTES:

- REMOVE EXISTING 2" CW DOWN TO SERVE BATHROOM FIXTURES.
- REMOVE EXISTING 1" HW DOWN TO SERVE BATHROOM FIXTURES.
- REMOVE EXISTING 3" VENT PIPING DOWN TO SERVE BATHROOM FIXTURES.
- REMOVE ALL EXISTING PLUMBING FIXTURES IN EXISTING BATHROOMS AND ALL ASSOCIATED APPURTENANCES. REMOVE EXISTING DOMESTIC WATER AND VENT PIPING, INCLUDING ALL ASSOCIATED HANGERS, VALVES, INSULATION AND FITTINGS. REMOVE ALL FLOOR DRAINS ALONG WITH ALL ABOVE AND BELOW GRADE SANITARY PIPING. VERIFY LOCATION OF FIXTURES AND PIPING IN FIELD. WATER CLOSETS AND ASSOCIATED FLUSH VALVES SHALL BE SAVED FOR REUSE. SEE NEW WORK PLAN FOR NEW LOCATION.
- PIPING CONTINUED OUTSIDE OF WORK AREA.
- REMOVE EXISTING 4" BELOW GRADE SANITARY PIPING UP TO POINT INDICATED.

GENERAL NOTES:

- REFER TO PD.1 FOR MECHANICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- BELOW GRADE SANITARY PIPING IS BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS IN FIELD WITH GROUND PENETRATING RADAR (GPR).
- CONTRACTOR SHALL PROVIDE FLOOR TRENCHING FOR REMOVAL AND INSTALLATION OF PIPING LOCATED BELOW SLAB ON GRADE.

2 PART SERVICE LEVEL PLAN - PLUMBING - NEW WORK
SCALE: 1/4" = 1'-0"

NEW WORK DRAWING NOTES:

- CONNECT TO EXISTING 4" SANITARY PIPING BELOW GRADE.
- 1/2" HWR, 3/4" HW AND 1 1/2" CW DOWN IN WALL SPACE TO SERVE BATHROOM FIXTURES.
- 1/2" HW & 1/2" CW DOWN TO SH-1. PROVIDE 2" VENT DOWN TO 2" SANITARY.
- 1" CW DOWN TO EXISTING WALL HYDRANT.
- PIPING CONTINUED OUTSIDE OF WORK AREA.
- 1 1/4" CW & 2" VENT DOWN TO RELOCATED WATER CLOSET WC-1 & 4" SANITARY. CONTRACTOR SHALL CONFIRM EXISTING FIXTURE IS ADA COMPLIANT AND INSTALL PER ADA STANDARDS.
- 1/2" HW, 1/2" CW, AND 2" VENT DOWN TO L-1, AND 2" SANITARY.
- COMBINATION BALANCING & SHUT-OFF VALVE (SET @ 0.5 GPM), REFER TO DETAIL.
- FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
- SANITARY PIPING LOCATED BELOW FLOOR SLAB ON GRADE.

ROOM NAME LIST	
1.25.03	PLAYER KITCHEN
1.25.04	PLAYER LOUNGE
1.25.05	TRAINING
1.25.06	TOILET
1.25.07	CORRIDOR
1.26.07	STORAGE
1.26.08	TOILET
1.26.09	TOILET
1.26.10	COACHES LOCKER RM
1.26.11	CORRIDOR
1.26.12	TRAINING ROOM
1.26.13	AUXILIARY LOCKER RM
1.26.14	JAN.
1.26.15	ADA RESTROOM
1.26.16	ADA RESTROOM
1.26.17	WOMENS LOCKER RM
1.26.18	ADA SHOWER ROOM



NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
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NAME: MARK A. FLICKINGER
LICENSE NO. 20180
EXPIRATION DATE: 09/11/21

DRAWING TITLE
PART SERVICE LEVEL
PLUMBING
DEMOLITION & NEW WORK

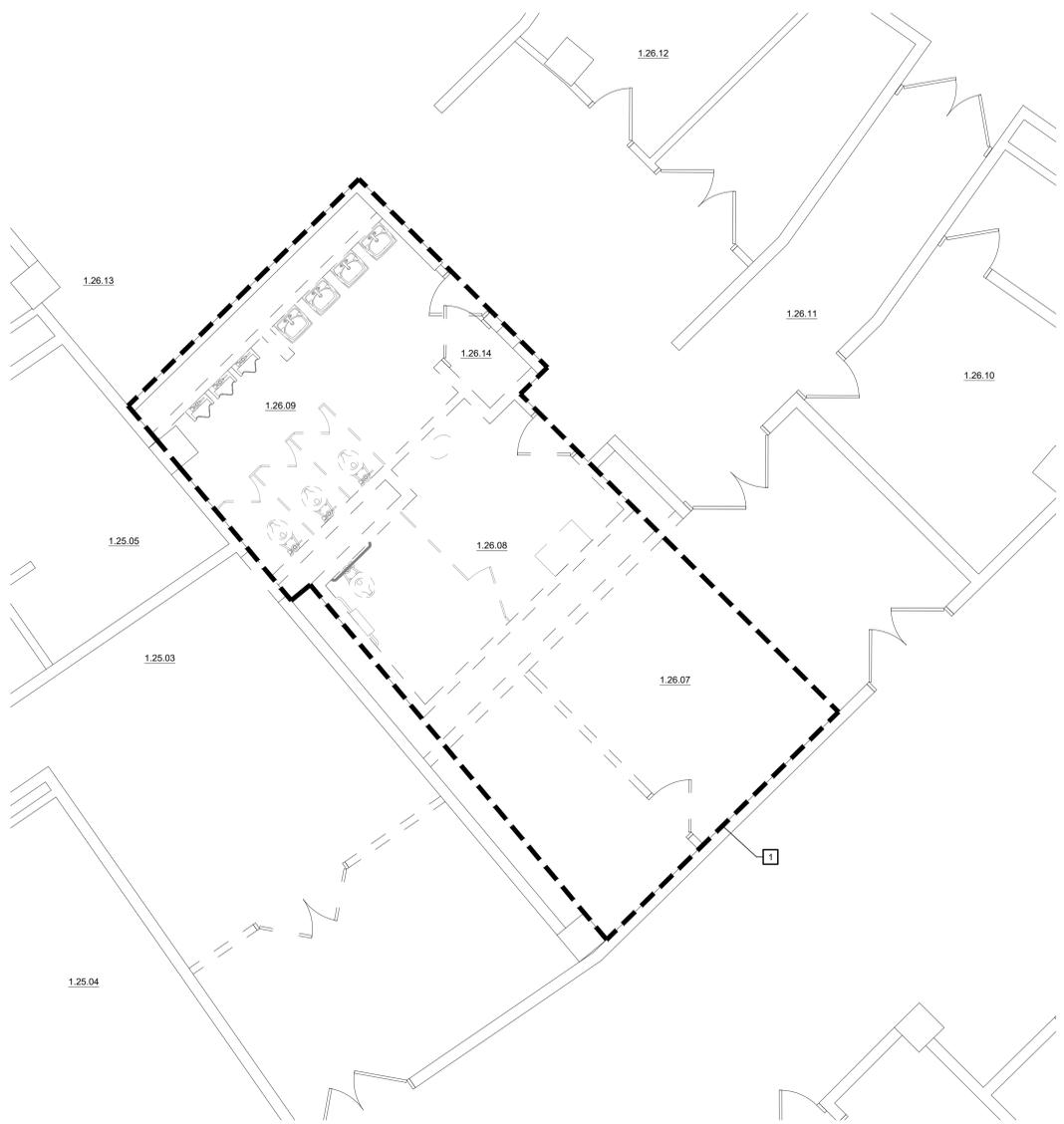
DRAWN NHJ **PROJECT #** 20009.00
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SCALE AS NOTED

P1.1

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PLOTTED BY: NICK H. JOHNSON 10/13/2020 12:20 PM
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OPCY SERVICE LEVEL - WOMENS LOCKER ROOM RENOV.



1 PART SERVICE LEVEL PLAN - FIRE / SPRINKLER - DEMOLITION
SCALE: 1/4" = 1'-0"

DEMOLITION DRAWING NOTES:

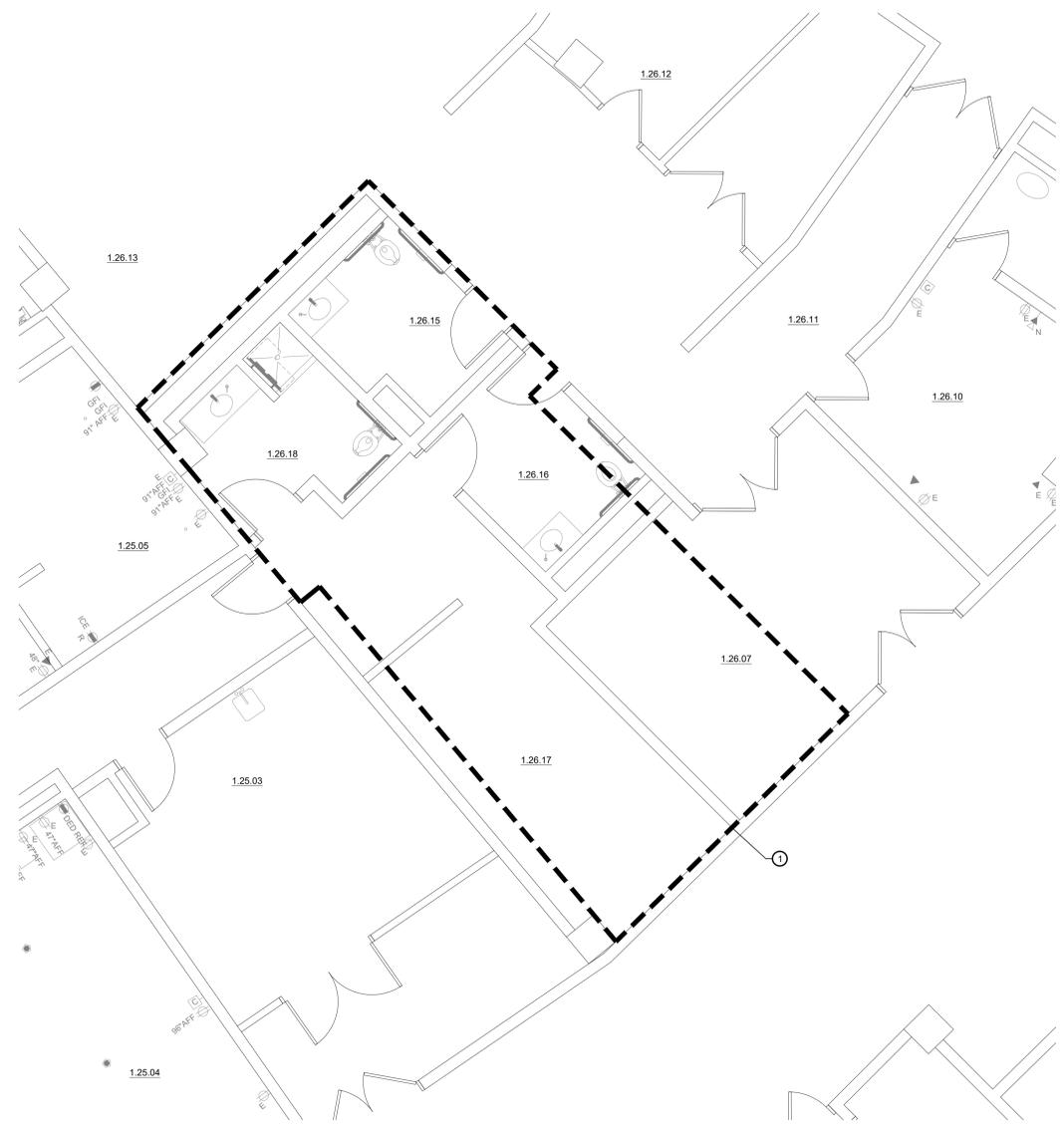
1. AREA SERVED BY EXISTING WET-TYPE SPRINKLER SYSTEM. MODIFY SPRINKLER SYSTEM WITHIN PROJECT AREA. SEE SPRINKLER NOTES FOR REQUIREMENTS.

GENERAL NOTES:

1. REFER TO P0.1 FOR PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES.

SPRINKLER NOTES:

1. CONTRACTOR MUST MAKE MODIFICATIONS TO EXISTING SPRINKLER SYSTEM AS REQUIRED TO PROVIDE COVERAGE FOR THE NEW ARCHITECTURAL ARRANGEMENT (INCLUDING ALL OBSTRUCTIONS, SUCH AS LIGHTING FIXTURES, ETC.) IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13 AND LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING WORK. NEW SPRINKLER HEADS, WHERE NECESSARY, MUST BE PROVIDED TO MATCH EXISTING STYLE. RELOCATE EXISTING BRANCH SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE DIFFUSER AND LIGHTING FIXTURE LAYOUTS.
2. PRIOR TO THE INSTALLATION OF THE SPRINKLER SYSTEM, THE SPRINKLER CONTRACTOR MUST COORDINATE PIPING, VALVES, SPRINKLER HEADS, ETC. WITH ALL NEW AND EXISTING DUCTWORK, PIPING, CABLE TRAYS, STRUCTURAL MEMBERS AND OTHER DISCIPLINES.
3. ALL PENETRATIONS IN EXISTING OR NEW FIRE RATED WALLS, CEILINGS AND FLOORS MUST BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH A MATERIAL OF EQUAL FIRE RESISTANCE.
4. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE SPRINKLER SYSTEMS MUST BE PROVIDED BY THE SPRINKLER CONTRACTOR. STRUCTURAL COMPONENTS MUST NOT BE CUT, DRILLED OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL.
5. ALL CEILINGS, WALLS, FLOORS AND FINISHES DAMAGED DURING CONSTRUCTION MUST BE REPAIRED AND PAINTED TO MATCH EXISTING CONDITIONS AND FIRE RATING.
6. ACTUAL LOCATION OF EXISTING CEILING MOUNTED LIGHTS, RETURN AND SUPPLY DUCTS, AIR GRILLES AND DIFFUSERS, SPRINKLER HEADS, PIPING AND STRUCTURAL SUPPORTS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
7. ALL SPRINKLER PIPING INSTALLED IN FINISHED AREAS MUST BE CONCEALED.
8. EXISTING SYSTEMS MUST REMAIN IN SERVICE UNTIL NEW WORK IS TESTED AND ACCEPTED. INTERRUPTION OF PROTECTION FOR THE PURPOSES OF MAKING TAPS OF EXISTING PIPING OR MAKING INTERCONNECTIONS BETWEEN NEW AND EXISTING WORK MUST BE COORDINATED IN ADVANCE WITH THE OWNER. ALL WORK THAT CANNOT BE ISOLATED FROM OTHER BUILDING SUITES SHALL BE COMPLETED AFTER HOURS.
9. CONTRACTOR SHALL CENTER SPRINKLER HEADS IN CEILING TILES.
10. THOUGH SOME PIPING OFFSETS ARE INDICATED, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL OFFSETS THAT ARE REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE FIRE PROTECTION AND SPRINKLER WORK WITH THE WORK OF ALL OTHER TRADES TO PROVIDE COMPLETE SYSTEM WITHOUT INTERFERENCE.
11. CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS TO DETERMINE FINAL SIZING OF SPRINKLER MAINS AND BRANCH LINES AND OVERSIZED MAINS AND BRANCH LINES WILL BE NECESSARY TO OVERCOME FRICTION PRESSURE LOSSES.
12. CONTRACTOR MUST VISIT SITE TO DETERMINE EXACT QUANTITIES AND SCOPE OF WORK.



2 PART SERVICE LEVEL PLAN - FIRE / SPRINKLER - NEW WORK
SCALE: 1/4" = 1'-0"

NEW WORK DRAWING NOTES:

1. AREA SERVED BY EXISTING WET-TYPE SPRINKLER SYSTEM. MODIFY SPRINKLER SYSTEM WITHIN PROJECT AREA. SEE SPRINKLER NOTES FOR REQUIREMENTS.

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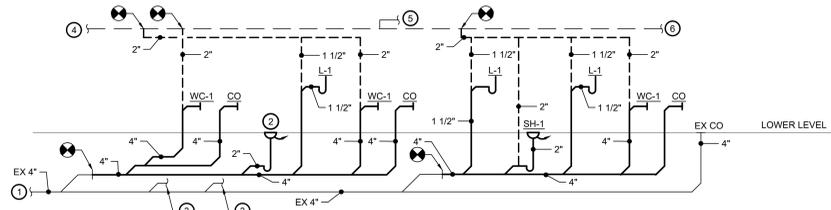
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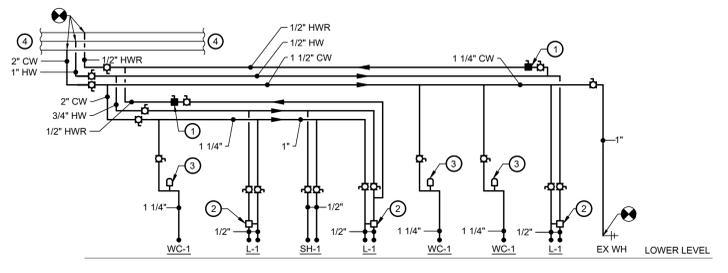
P1.2



1 SANITARY RISER DIAGRAM
NO SCALE

RISER NOTES:

- EXISTING 4" SAN TO SANITARY MAIN.
- 2" FLOOR DRAIN WITH 1/2" TRAP PRIMING LINE.
- EXISTING SANITARY CONTINUED OUTSIDE WORK AREA.
- EXISTING 3" VENT CONTINUED OUTSIDE WORK AREA.
- EXISTING 1 1/4" VENT CONTINUED OUTSIDE WORK AREA.
- EXISTING 2" VENT CONTINUED OUTSIDE WORK AREA.



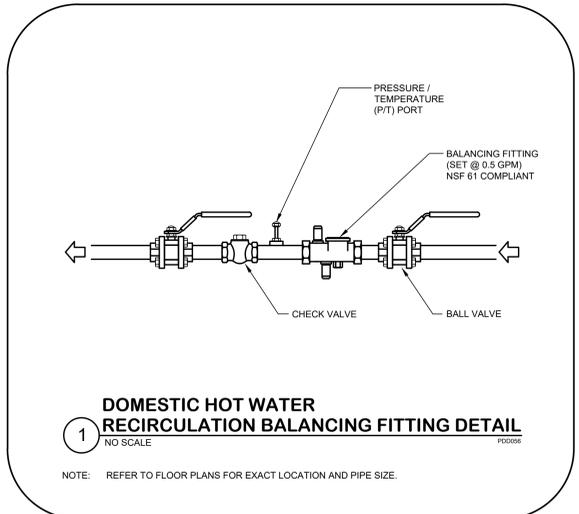
2 DOMESTIC WATER RISER DIAGRAM
NO SCALE

RISER NOTES:

- BALANCING FITTING (SET AT 0.5 GPM).
- ASSE 1070 POINT-OF-USE THERMOSTATIC MIXING VALVE: LAWLER 802 OR EQUAL.
- WATER HAMMER ARRESTOR, SIZE TO PDI WH-201 STANDARD.
- EXISTING 3" HW, 4" CW, AND 3/4" HWR CONTINUED OUTSIDE WORK AREA.

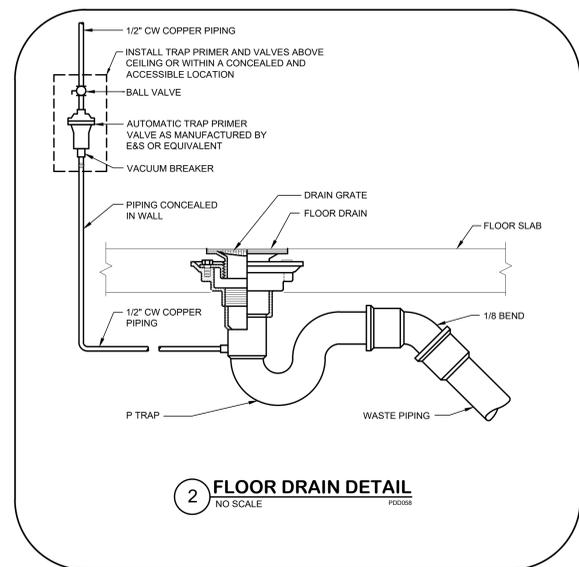
GENERAL RISER NOTES:

- REFER TO P001 FOR PLUMBING SCHEDULES, LEGEND, ABBREVIATIONS AND GENERAL PLUMBING AND SPRINKLER NOTES.
- ALL VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

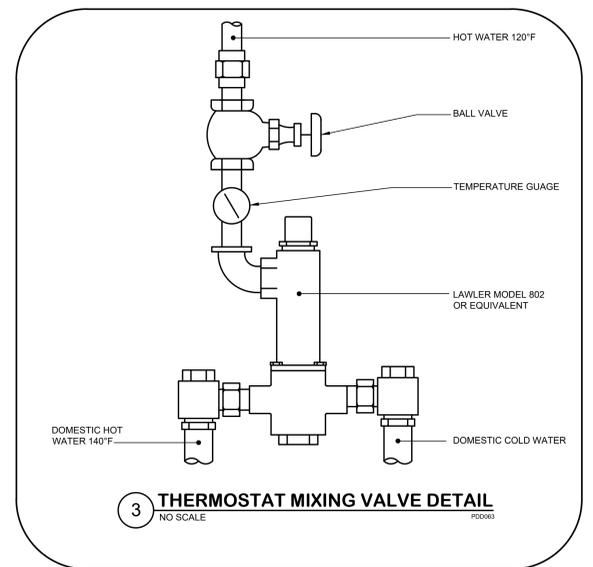


1 DOMESTIC HOT WATER RECIRCULATION BALANCING FITTING DETAIL
NO SCALE

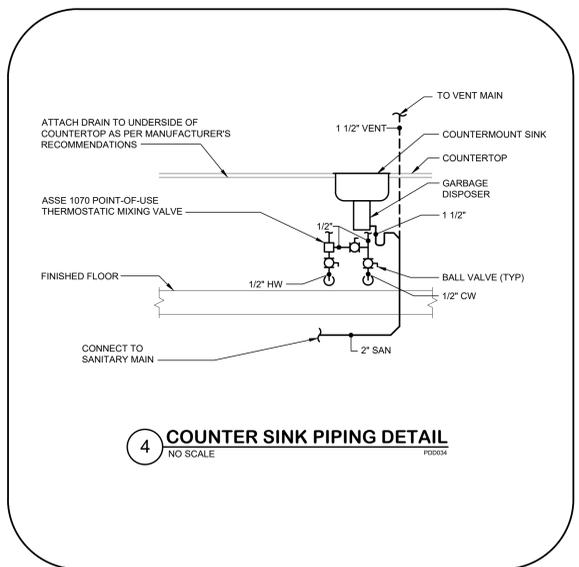
NOTE: REFER TO FLOOR PLANS FOR EXACT LOCATION AND PIPE SIZE.



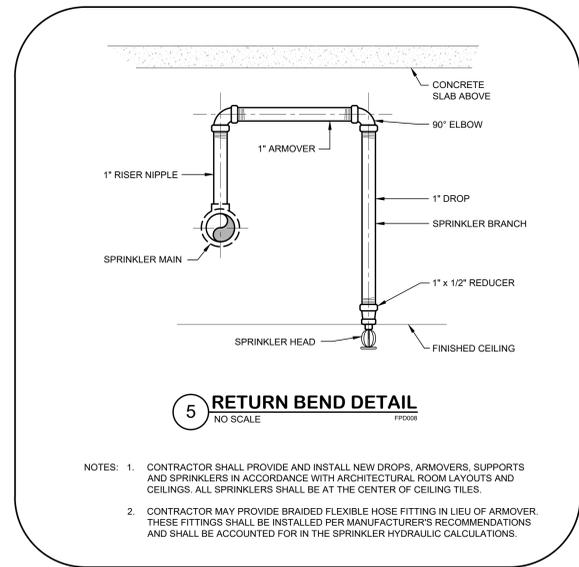
2 FLOOR DRAIN DETAIL
NO SCALE



3 THERMOSTAT MIXING VALVE DETAIL
NO SCALE



4 COUNTER SINK PIPING DETAIL
NO SCALE



5 RETURN BEND DETAIL
NO SCALE

- NOTES:
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW DROPS, ARMOVERS, SUPPORTS AND SPRINKLERS IN ACCORDANCE WITH ARCHITECTURAL ROOM LAYOUTS AND CEILINGS. ALL SPRINKLERS SHALL BE AT THE CENTER OF CEILING TILES.
 - CONTRACTOR MAY PROVIDE BRAIDED FLEXIBLE HOSE FITTING IN LIEU OF ARMOVER. THESE FITTINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE ACCOUNTED FOR IN THE SPRINKLER HYDRAULIC CALCULATIONS.

NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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PROJECT
OPCY SERVICE LEVEL
WOMEN'S LOCKER ROOM RENOV.
333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION SEAL
PROFESSIONAL CERTIFICATION
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.
NAME: MARK A. FLICKINGER
LICENSE NO. 20190
EXPIRATION DATE: 09/11/21

DRAWING TITLE
PLUMBING DETAILS

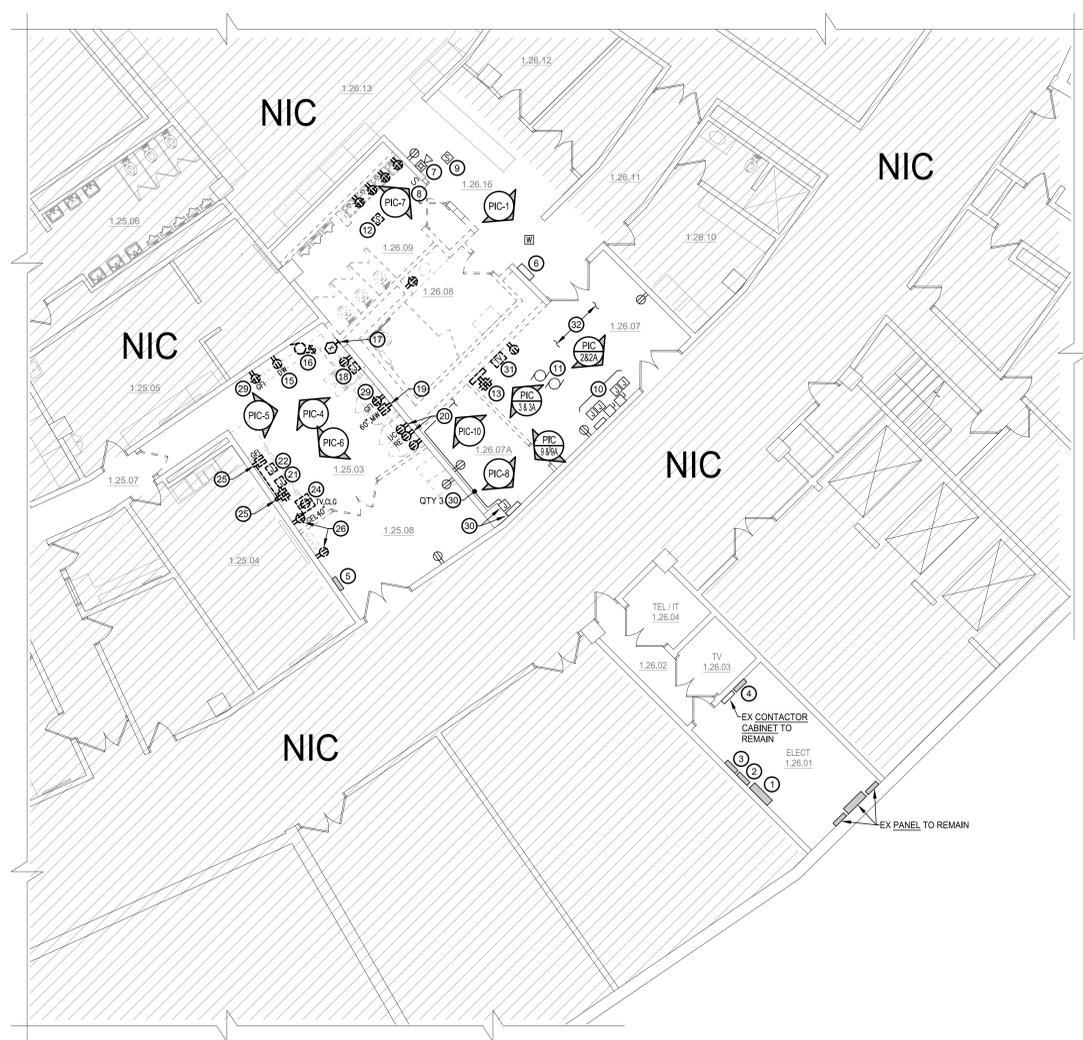
DRAWN	PROJECT #	20009.00
CHECKED	CMP	DRAWING #
REVIEWED	MAF	
DATE	10/14/2020	
SCALE	AS NOTED	

P2.1

BKM# 20062.01

Printed By: Nick H. Johnson 10/13/2020 12:01 PM

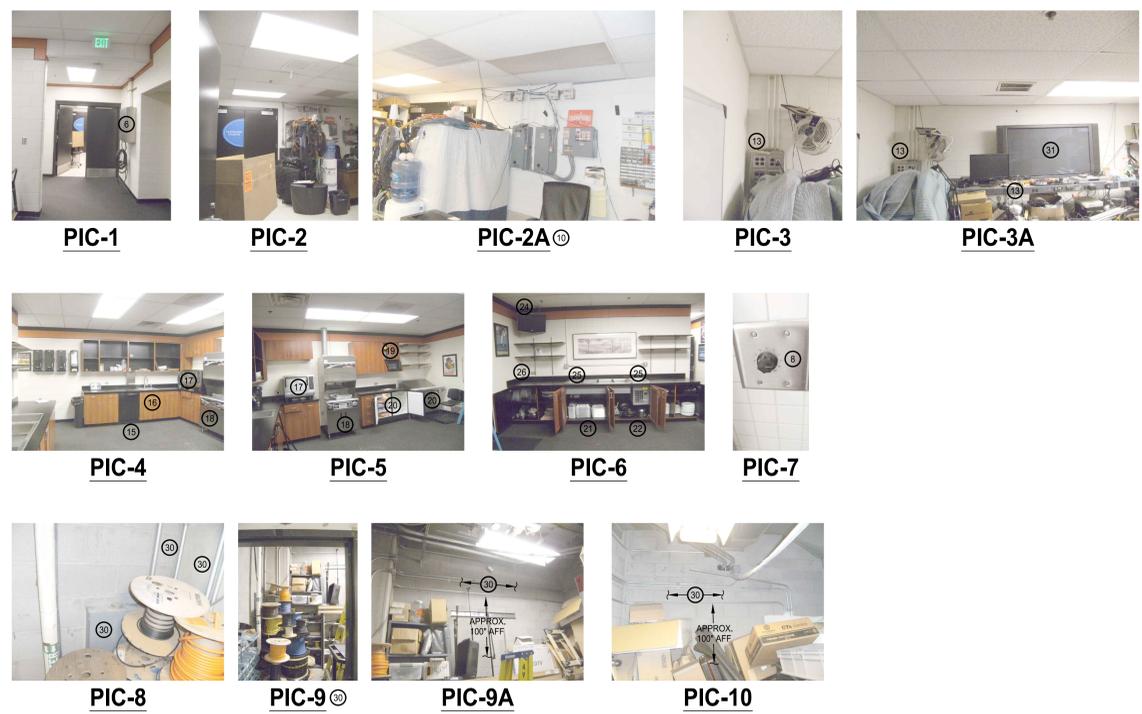
OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.



**1 PART SERVICE LEVEL PLAN
POWER & SPECIAL SYSTEMS - DEMOLITION**
SCALE: 1/8" = 1'-0"



2 PART SERVICE LEVEL PLAN - LIGHTING - DEMOLITION
SCALE: 1/8" = 1'-0"



DRAWING NOTES:

1. ETR DISTRIBUTION PANEL "SVRB-A": 600 A MCB, 208 / 120 V, 3 PH, 4 W, SQUARE-D LINE
2. ETR PANEL "SVRB-B": 225 A MLO, 208 / 120 V, 3 PH, 4 W, SQUARE-D TYPE 'NQDD'
3. ETR PANEL "SVRB-C": 225 A MLO, 208 / 120 V, 3 PH, 4 W, SQUARE-D TYPE 'NQDD'
4. ETR PANEL "SVRB": 125 A MLO, 480 / 277 V, 3 PH, 4 W, SQUARE-D TYPE 'NEHB'
5. ETR PANEL "VS-1": 225 A MLO, 208 / 120 V, 3 PH, 4 W, SQUARE-D TYPE 'NQ'
6. ETR A / V PANEL
7. ETR FIRE ALARM VISUAL / ALARM DEVICE
8. EX SELECTOR SWITCH. CONTRACTOR TO VERIFY WITH OWNER IF THIS SWITCH STILL IN-USE. IF NOT, RX SWITCH & PROVIDE NEW STAINLESS STEEL BLANK DEVICE PLATE ON RECESSED OUTLET BOX.
9. ETR CEILING MOUNTED SPEAKER
10. EX STARTERS, JUNCTION BOXES & MECHANICAL CONTROL PANEL TO REMAIN.
11. EX AIR HANDLING UNITS TO REMAIN (ABOVE THIS SPACE).
12. RX CEILING MOUNTED SPEAKER & RETAIN FOR RELOCATION. REFER TO NEW WORK PLAN FOR MORE INFORMATION.
13. RX SURFACE MOUNTED COMBINATION TELECOM / RECEPTACLES / BOX ASSEMBLY, WORK TABLE POWER CONNECTION & RETAIN FOR RELOCATION. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE. EX BRANCH CIRCUIT SHALL REMAIN FOR REUSE IN NEW WORK PHASE.
14. RX SURFACE MOUNTED LIGHTING FIXTURE (IN MAINTENANCE PLATFORM ABOVE CEILING) & ASSOCIATED TOGGLE SWITCH & RETAIN FOR RELOCATION.
15. RX ELECTRICAL CONNECTION TO DISHWASHER. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
16. RX ELECTRICAL CONNECTION TO GARBAGE DISPOSAL. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
17. RX ELECTRICAL CONNECTION TO ELECTRIC OVEN. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
18. RX ELECTRICAL CONNECTION TO ELECTRIC GRIDDLE. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
19. RX ELECTRICAL CONNECTION TO MICROWAVE. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
20. RX ELECTRICAL CONNECTION TO UNDER COUNTER REFRIG / FREEZER & OR PREP CART. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
21. RX ELECTRICAL CONNECTION TO ELECTRIC HOT PLATE: 208 V, 1 PH, 16.3 A. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
22. RX ELECTRICAL CONNECTION TO ELECTRIC COLD PLATE: 120 VAC, 2.4 A. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.

23. TEMPORARILY REMOVE LIGHTING FIXTURE (WALL OR CEILING MOUNTED) FOR RELOCATION. EX LIGHTING BRANCH CIRCUIT SHALL REMAIN FOR REUSE. CLEAN & RE-LAMP (NEW LAMPS SHALL MATCH EXISTING LAMP WATTAGE, COLOR TEMPERATURE & TYPE) PRIOR TO REINSTALLATION. REFER TO NEW WORK PLAN FOR MORE INFORMATION.
24. TEMPORARILY REMOVE CEILING MOUNTED RECEPTACLES, A/V CABLE & TV BRACKET SERVING WALL MOUNTED TV FOR RELOCATION. EX BRANCH CIRCUIT BREAKER SHALL REMAIN FOR REUSE IN NEW WORK PHASE. PATCH & REPAIR WALL TO MATCH ADJACENT SURFACE.
25. TEMPORARILY REMOVE SURFACE MOUNTED RECEPTACLES FOR RELOCATION. EX BRANCH CIRCUIT BREAKER, CONDUIT & WIRING SHALL REMAIN FOR REUSE IN NEW WORK PHASE.
26. RX RECEPTACLE & PROVIDE STAINLESS STEEL BLANK DEVICE PLATE.
27. RX 3-WAY SWITCH & PROVIDE STAINLESS STEEL BLANK DEVICE PLATE.
28. RX 3-WAY SWITCH. EX BOX & CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK PHASE.
29. RX ELECTRICAL CONNECTION TO COUNTER TOP RECEPTACLE. RX CONDUIT & WIRING UP TO ACCESSIBLE CEILING SPACE FOR RECONNECTION IN NEW WORK PLAN.
30. EX PULL BOX, JUNCTION BOX & CONDUITS TO REMAIN.
31. TEMPORARILY REMOVE WALL MOUNTED TV, TV BRACKET & A/V CABLE FOR RELOCATION. PATCH & REPAIR WALL TO MATCH ADJACENT SURFACE. REFER TO NEW WORK PLAN FOR NEW LOCATION.
32. TEMPORARILY COIL UP ALL LOOSE IT & A/V CABLES IN THIS ROOM UP TO ACCESSIBLE CEILING SPACE FOR REUSE IN NEW WORK PLAN.
33. RX TOGGLE SWITCH. EX JUNCTION BOX & CONDUIT SHALL REMAIN FOR REUSE IN NEW WORK PHASE.

GENERAL NOTES:

1. REFER TO E0.1 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. EXISTING KITCHEN EQUIPMENT IS FED FROM PANEL "VS-1".
3. WHERE RECESSED RECEPTACLE IS BEING REMOVED, REMOVE BRANCH CIRCUIT WIRING UP TO ACCESSIBLE CEILING SPACE. EX OUTLET BOX & CONDUIT SHALL REMAIN. PROVIDE NEW STAINLESS STEEL BLANK DEVICE PLATE ON RECESSED OUTLET BOX.

NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

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PROJECT
OPCY SERVICE LEVEL
WOMEN'S LOCKER ROOM RENOV.
333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION

PROFESSIONAL CERTIFICATION:
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.

NAME: RICHARD MILLER
LICENSE NO.: 20513
EXPIRATION DATE: 07/17/2022

DRAWING TITLE
PART SERVICE LEVEL PLANS
ELECTRICAL
DEMOLITION

DRAWN: MB PROJECT #: 20009.00
CHECKED: LSF DRAWING #
REVIEWED: RAM
DATE: 10/14/2020
SCALE: AS NOTED

E1.1

BKM# 20062.01



1 PART SERVICE LEVEL PLAN POWER & SPECIAL SYSTEMS - NEW WORK SCALE: 1/8" = 1'-0"



2 PART SERVICE LEVEL PLAN - LIGHTING - NEW WORK SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- 1. REFER TO E01 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. EXISTING KITCHEN EQUIPMENT IS FED FROM PANEL 'VS-1'.
3. NEW FIRE ALARM NOTIFICATION DEVICES ARE BEING ADDED TO THE EXISTING FIRE ALARM SYSTEM...

LIGHTING CONTROL NOTES:

- 1. NEW LIGHTING CONTROL SHALL BE LOW VOLTAGE SYSTEM.
2. CONTRACTOR SHALL COORDINATE QUANTITY OF POWER PACKS, GENERATOR TRANSFER DEVICE, POWER SUPPLIES & OTHER DEVICES WITH LIGHTING CONTROL MANUFACTURER.

NEW LOCKER ROOM:

SPACE SHALL BE CONTROLLED WITH LOW VOLTAGE CONTROL SYSTEM CONSISTING OF CEILING MOUNTED VACANCY SENSORS & 'ON / OFF' SWITCHES...

NEW TOILETS:

SPACE SHALL BE CONTROLLED WITH LOW VOLTAGE CONTROL SYSTEM CONSISTING OF CEILING MOUNTED VACANCY SENSORS & 'ON / OFF' SWITCHES...

NEW CORRIDOR:

SPACE SHALL BE CONTROLLED WITH LOW VOLTAGE CONTROL SYSTEM CONSISTING OF CEILING MOUNTED OCCUPANCY SENSOR.

KITCHEN:

SPACE SHALL BE CONTROLLED WITH LINE VOLTAGE CONTROL SYSTEM (NEW CONTROL SWITCH).

STORAGE ROOMS:

SPACE SHALL BE CONTROLLED WITH LOW VOLTAGE CONTROL SYSTEM CONSISTING OF CEILING MOUNTED VACANCY SENSORS & 'ON / OFF' SWITCHES...

DRAWING NOTES:

- 1. ETR DISTRIBUTION PANEL 'SVR-B-A': 600 A MCB, 208 / 120 V, 3 PH, 4 W, SQUARE-D I-LINE
2. ETR PANEL 'SVR-B-B': 225 A MLO, 208 / 120 V, 3 PH, 4 W, SQUARE-D TYPE 'NOOD'
3. ETR PANEL 'SVR-B-C': 225 A MLO, 208 / 120 V, 3 PH, 4 W, SQUARE-D TYPE 'NOOD'

- 23. CONNECT NEW LIGHTING & CONTROLS TO EX LIGHTING BRANCH CIRCUIT SERVING THIS AREA PRIOR TO DEMOLITION.
24. CONNECT TO EX EMERGENCY LIGHTING CIRCUIT IN THIS AREA.
25. PROVIDE WALL MOUNTED OCCUPANCY SENSOR ABOVE DOOR.

ROOM NAME LIST table with columns for room number and name, including PLAYER KITCHEN, PLAYER LOUNGE, TRAINING, TOILET, CORRIDOR, STORAGE, TOILET, COACHES LOCKER RM, CORRIDOR, TRAINING ROOM, AUXILIARY LOCKER RM, JAN, ADA RESTROOM, ADA RESTROOM, WOMENS LOCKER RM, ADA SHOWER ROOM.



Revision table with columns NO, REVISION / SUBMISSION, DATE. Includes entries for 95% CD SUBMISSION (10/02/2020) and 100% CD SUBMISSION (10/14/2020).

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INTERIOR DESIGN: AUMEN ASNER, INC. 100 NORTH CHARLES STREET, SUITE 910 BALTIMORE, MD 21201 TEL: 410-837-2767

PROJECT: OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV. 333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION: PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A D.J.V. LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

DRAWING TITLE: PART SERVICE LEVEL PLANS ELECTRICAL NEW WORK

DRAWN: MB PROJECT # 20009.00 CHECKED: LSF DRAWING # REVIEWED: RAM DATE: 10/14/2020 SCALE: AS NOTED

E2.1

ELECTRICAL SPECIFICATIONS:

1- BASIC ELECTRICAL REQUIREMENTS

1.1 GENERAL

- A. GENERAL PROVISIONS OF THE CONTRACT APPLY ALL WORK PERFORMED AND MATERIALS PROVIDED SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS AND THE NATIONAL ELECTRICAL CODE (NEC).
- B. PRIOR TO STARTING WORK, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE.
- C. AVOID INTERFERENCE WITH STRUCTURE AND WITH WORK OF OTHER TRADES, PRESERVING ADEQUATE HEADROOM AND CLEARING ALL DOORS AND PASSAGEWAYS.
- D. CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES. REPAIR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONSTRUCTION FORCES.
- E. LEAVE ALL AREAS BROOM CLEAN DAILY. REMOVE ALL CONSTRUCTION DEBRIS AND TRASH FROM THE SITE DAILY.
- F. BEFORE ORDERING ANY MATERIALS OR EQUIPMENT, SUBMIT TO THE ENGINEER DATA FOR ALL MATERIALS AND EQUIPMENT. CHECK EQUIPMENT DIMENSIONS OF PROPOSED SUBSTITUTE EQUIPMENT. THE COST OF ANY REDESIGNING CAUSED BY A SUBSTITUTION SHALL BE BORNE BY THE CONTRACTOR.
- G. CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING REQUIRED BY HIS WORK. ALL REPAIRS TO FINISH SHALL BE OF LIKE KIND, COLOR AND QUALITY AS EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT APPROVAL FROM THE ARCHITECT.
- H. PROVIDE TEMPORARY POWER AS MAY BE REQUIRED FOR CONSTRUCTION OR AS MAY BE REQUIRED TO MAINTAIN CRITICAL OPERATIONS DURING CHANGEOVER OF FEEDERS OR SERVICES. PROVIDE ALL EQUIPMENT, MAKE ALL ARRANGEMENTS, AND MAKE ALL CONNECTIONS REQUIRED FOR TEMPORARY POWER. REMOVE ALL PROVISIONS FOR TEMPORARY POWER UPON COMPLETION OF THE PROJECT.
- I. SCHEDULE IN ADVANCE ALL OUTAGES OF BUILDING UTILITIES. OUTAGES SHALL BE AS SHORT AS POSSIBLE. ALL SERVICES SHALL BE RESTORED AND PLACED IN OPERATION WHEN CONTRACTOR'S PERSONNEL LEAVE THE SITE EACH DAY.
- J. TAKE NECESSARY PRECAUTIONS TO PROTECT BUILDINGS OCCUPANTS AND CONTENTS AND PREVENT THE SPREAD OF DUST AND DIRT INTO OCCUPIED AREAS.
- K. THE CONTRACTOR SHALL MAINTAIN A SET OF APPROVED CONSTRUCTION DOCUMENTS WITH ALL APPROVED REVISIONS, AT THE SITE AS A RECORD MARK-UP OF AS-BUILT CONDITIONS. THESE RED-LINED PLANS SHALL BE SUBMITTED AS PART OF THE O & M MANUALS.
- L. IN FIRE-RATED PARTITIONS WHERE HORIZONTAL SEPARATION OF OPPOSITE-FACING ELECTRICAL BOXES IS LESS THAN 24 INCHES, PROVIDE UL LISTED FIRESTOP AROUND ELECTRICAL BOXES AS REQUIRED TO MAINTAIN FIRE RATING OF WALL.

1.2 CONTRACT DOCUMENTS

- A. CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT.
- B. CORRECTION OF FAULTY WORK DUE TO RESOLVING DISCREPANCIES WITHOUT AUTHORIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- C. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS, HE SHALL NOTIFY THE ENGINEER OF SUCH CONDITIONS PRIOR TO THE BID DATE. OTHERWISE, IT WILL BE UNDERSTOOD THAT THE DRAWINGS AND SPECIFICATIONS ARE CLEAR AS TO WHAT IS INTENDED AND SHALL BE AS INTERPRETED BY THE ENGINEER.

1.3 SUBMITTALS

- A. SUBMIT SHOP DRAWINGS, MANUFACTURER'S DATA AND CERTIFICATES FOR EQUIPMENT, MATERIALS AND FINISH, AND PERTINENT DETAILS FOR EACH SYSTEM AND OBTAIN APPROVAL BEFORE PROCUREMENT, FABRICATION, OR DELIVERY OF THE ITEMS TO THE JOB SITE. PARTIAL SUBMITTALS ARE NOT ACCEPTABLE AND WILL BE RETURNED WITHOUT REVIEW.
- B. SUBMITTALS SHALL INCLUDE THE MANUFACTURER'S NAME, TRADE NAME, CATALOG MODEL OR NUMBER, NAMEPLATE DATA, SIZE, LAYOUT DIMENSIONS, CAPACITY, PROJECT SPECIFICATION AND PARAGRAPH REFERENCE, APPLICABLE PUBLICATION REFERENCES, YEARS OF SATISFACTORY SERVICE, AND OTHER INFORMATION NECESSARY TO ESTABLISH CONTRACT COMPLIANCE OF EACH ITEM THE CONTRACTOR PROPOSES TO FURNISH.
- C. SUBMITTALS WILL BE CHECKED ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND ARE SUBJECT TO THE ORIGINAL CONTRACT DOCUMENTS, AS WELL AS ANY CORRECTIONS AND COMMENTS NOTED. COMMENTS NOTED, IF ANY, WILL NOT BE CONSIDERED A COMPLETE LIST OF ALL OMISSIONS, DEVIATIONS AND CORRECTIONS NECESSARY TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE RESPONSIBLE TO CONFIRM THAT THE FINAL PRODUCT AND INSTALLATION WILL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS IN THEIR ENTIRETY, INCLUDING THE RESPONSIBILITY TO FULLY COORDINATE ALL WORK WITH OTHER TRADES AND TO CONFIRM THE CORRECTNESS OF DIMENSIONS, QUANTITIES, AND CAPACITIES. SUBMITTAL REVIEW DOES NOT AUTHORIZE OR CONSTITUTE A CHANGE TO THE CONTRACT REQUIREMENTS AND DOES NOT RELEASE THE CONTRACTOR OF RESPONSIBILITY TO CONFORM TO THE CONTRACT REQUIREMENTS. REQUIREMENTS OF THE CONTRACT ARE NOT WAIVED BY REVIEW OF ANY AND ALL SUBSTITUTIONS. THE CONTRACTOR MUST FULFILL THE TERMS OF THE CONTRACT.
- D. ACCEPTANCE WILL NOT CONSTITUTE WAIVER OF CONTRACT REQUIREMENTS UNLESS DEVIATIONS ARE SPECIFICALLY INDICATED AND CLEARLY NOTED.
- E. ALL ELECTRICAL EQUIPMENT SHALL BE APPROVED AND LISTED BY UNDERWRITERS LABORATORIES (UL) AND SHALL BEAR NAMEPLATE IDENTIFYING SAME.
- F. ACCEPTANCE WILL NOT CONSTITUTE A WAIVER OF SYSTEM PERFORMANCE.
- G. THE ENGINEER WILL PROVIDE A MAXIMUM OF TWO (2) SUBMITTAL REVIEWS PER EQUIPMENT SUBMITTAL. THE INITIAL REVIEW PLUS ONE (1) RE-SUBMITTAL SHOULD THE RE-SUBMITTAL BE RETURNED "NOT ACCEPTABLE" OR "REVISE AND RESUBMIT". THE CONTRACTOR SHALL CHOOSE ONE OF THE FOLLOWING COURSES OF ACTION:
 - 1. PROVIDE THE EXACT MANUFACTURER AND MODEL INDICATED IN THE CONTRACT DOCUMENTS AS THE BASIS OF DESIGN, OR
 - 2. REIMBURSE THE ENGINEER FOR ALL ADDITIONAL REVIEW TIME REQUIRED TO ACHIEVE A SUBMITTAL REVIEW FROM THE ENGINEER OF "NO EXCEPTIONS TAKEN."

- H. SHOULD THE CONTRACTOR CHOOSE OPTION 2 ABOVE, THE ENGINEER SHALL BE REIMBURSED AT AN HOURLY RATE OF \$175 PER HOUR WITH PAYABLE DUE PRIOR TO THE RETURN OF THE FINAL SUBMITTAL. IN ADDITION, THE CONTRACTOR SHALL ACCEPT COMPLETE RESPONSIBILITY FOR ALL DELAYS RESULTING FROM THE SUBMITTAL REVIEW PROCESS EXCEEDING BEYOND TWO (2) REVIEWS PER EQUIPMENT SUBMITTAL.
- I. PRIOR TO FINAL ACCEPTANCE, SUBMIT OPERATION AND MAINTENANCE MANUALS, WHICH INCLUDE TESTING REPORTS AND ALSO SUBMIT AS-BUILT PLANS.

1.4 MANUFACTURER'S RECOMMENDATIONS

- A. INSTALLATION PROCEDURES ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED.

1.5 COORDINATION

- A. COORDINATE ALL WORK AND COOPERATE WITH ALL OTHER TRADES TO FACILITATE EXECUTION OF WORK.

1.6 SITE EXAMINATION

- A. FAILURE TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING PROJECT CONDITIONS PRIOR TO BIDDING WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.

1.7 QUALITY ASSURANCE

- A. MANUFACTURER'S QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN MANUFACTURE OF ELECTRICAL PRODUCTS, OF TYPES AND SIZES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN FIVE (5) YEARS.
- B. INSTALLER'S QUALIFICATIONS: FIRMS WITH AT LEAST FIVE (5) YEARS SUCCESSFUL INSTALLATION EXPERIENCE ON PROJECTS WITH ELECTRICAL PRODUCTS SIMILAR TO THAT REQUIRED FOR THIS PROJECT.

1.8 REGULATIONS AND PERMITS

- A. WORK SHALL COMPLY WITH ALL APPLICABLE STATE, LOCAL AND FEDERAL CODES/REGULATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS.

1.9 FIELD INSTRUCTION

- A. UPON COMPLETION OF WORK, INSTRUCT OWNER'S REPRESENTATIVE IN THE PROPER OPERATION AND MAINTENANCE OF THE ELECTRICAL SYSTEMS.

1.10 GUARANTEE

- A. EACH CONTRACTOR SHALL FURNISH A GUARANTEE COVERING ALL LABOR AND MATERIALS FURNISHED BY HIM FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF HIS WORK, AND HE SHALL AGREE TO REPAIR AND MAKE GOOD AT HIS OWN EXPENSE ANY AND ALL DEFECTS WHICH MAY APPEAR IN HIS WORK DURING THAT TIME, IN THE JUDGMENT

OF THE ENGINEER. SUCH DEFECTS ARISE FROM DEFECTIVE WORKMANSHIP AND/OR IMPERFECT OR INFERIOR MATERIAL.

B. THE ABOVE SHALL NOT IN ANY WAY VOID OR ABRIDGE EQUIPMENT MANUFACTURER'S GUARANTEE OR WARRANTY. CERTIFICATES OF GUARANTEE SHALL BE DELIVERED TO THE OWNER.

C. WITHIN THE TWO (2) YEAR WARRANTY/GUARANTEE PERIOD, MANUFACTURER'S RECOMMENDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.

1.11 DEMOLITION

- A. THE ELECTRICAL DEMOLITION IN THE RENOVATION AREAS INDICATED ON THE DRAWINGS SHALL BE COMPLETE AND INCLUDE ALL ELECTRICAL WORK IN THE AREA UNLESS NOTED OTHERWISE.
- B. EXISTING ELECTRICAL SYSTEMS PASSING THROUGH AREAS OF DEMOLITION TO SERVE EQUIPMENT BEYOND THE DEMOLITION AREAS SHALL REMAIN IN SERVICE, OR BE SUITABLY RELOCATED AND RESTORED TO NORMAL OPERATION, THROUGHOUT THE DEMOLITION AND RECONSTRUCTION OF THE AREA. THE CONTRACTOR SHALL INVESTIGATE AND IDENTIFY SUCH EQUIPMENT PRIOR TO DEMOLITION.
- C. PROVIDE TEMPORARY ELECTRICAL SERVICE TO EQUIPMENT DISTURBED BY THE DEMOLITION UNTIL SUCH TIME AS THE PERMANENT SERVICE CAN BE RESTORED.
- D. WHERE CONDUIT AND WIRING TO REMAIN ARE INADVERTENTLY DAMAGED OR DISTURBED, CUT OUT AND REMOVE DAMAGED PORTION AND ALL DAMAGED WIRING FROM THE SOURCE SWITCHBOARD, PANELBOARD OR PULLBOX TO THE DESTINATION CONNECTION POINT. PROVIDE NEW WIRING OF EQUAL CAPACITY.
- E. EXPOSED CONDUIT TO BE DEMOLISHED SHALL BE REMOVED IN ITS ENTIRETY. CONCEALED CONDUIT, ABANDONED IN PLACE, SHALL BE CUT OUT APPROXIMATELY TWO INCHES BEYOND THE FACE OF ADJACENT CONSTRUCTION, PLUGGED, AND THE ADJACENT SURFACE PATCHED TO MATCH EXISTING.
- F. WIRING TO BE DEMOLISHED SHALL BE REMOVED FROM BOTH CONCEALED AND EXPOSED CONDUIT. NO WIRING WHICH BECOMES UNUSED AS A RESULT OF THE CONTRACT SHALL BE ABANDONED IN PLACE.
- G. EQUIPMENT SPECIFIED OR INDICATED TO BE DEMOLISHED, SHALL BE REMOVED FROM THE PROJECT SITE AND SHALL NOT BE REUSED.
- H. THE CONTRACTOR SHALL USE CARE WHEN PERFORMING SELECTIVE BUILDING DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INCLUSIVE OF BUT NOT LIMITED TO: BUILDING FINISHES, LIGHTING, FURNITURE, STRUCTURE, UTILITIES, MECHANICAL, PLUMBING, TELECOMMUNICATIONS AND ELECTRICAL EQUIPMENT SYSTEMS. SHOULD ANY DAMAGE OCCUR, OR SHOULD ANY REMEDIAL WORK BE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND OR REPLACE THE DAMAGED ITEM(S) TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING, PHOTO DOCUMENTING AND RESTORING THE SURROUNDING WORK SITES TO THE ORIGINAL PRE-DEMOLITION CONDITION AND / OR TO THE OWNER'S SATISFACTION UPON COMPLETION OF THE WORK AT NO ADDITIONAL COST.

2- RACEWAY

2.1 GENERAL

- A. ALL WIRING SHALL BE INSTALLED IN RACEWAY. MINIMUM CONDUIT SIZES SHALL BE 3/4" FOR POWER CIRCUITS AND 1/2" FOR CONTROL CIRCUITS.
- B. GALVANIZED RIGID STEEL SHALL BE USED IN ALL EXPOSED LOCATIONS SUBJECT TO DAMAGE, IN DAMP OR WET LOCATIONS, IN CONCRETE OR MASONRY CONSTRUCTION, AND WHERE REQUIRED BY THE NEC.
- C. PVC SHALL NOT BE USED EXCEPT WHERE NOTED ON THE DRAWINGS.
- D. ELECTRICAL RACEWAY CONNECTIONS TO VIBRATING EQUIPMENT AND MACHINERY SUCH AS MOTORS, ETC., SHALL BE MADE WITH FLEXIBLE METAL CONDUIT (LIQUID TIGHT IN WET LOCATIONS). FLEXIBLE CONNECTIONS TO MOTORS SHALL CONTAIN A 90-DEGREE BEND.
- E. SURFACE METAL RACEWAYS SHALL BE USED ONLY IN FINISHED AREAS AND ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS.
- F. ELECTRICAL METALLIC TUBING WITH STEEL INSULATED THROAT COMPRESSION FITTINGS SHALL BE USED IN ALL LOCATIONS EXCEPT WHERE NOTED OTHERWISE.
- G. ALL NEW RACEWAYS IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
- H. GROUT AROUND ALL CONDUITS AT CEILING, FLOOR, AND WALL PENETRATIONS TO PROVIDE AIR TIGHT SEAL. ALL FLOOR SLAB AND FIRE-RATED WALL PENETRATIONS SHALL BE SEALED WITH FIREPROOF COMPOUND.
- I. GROUP TOGETHER EXPOSED CONDUIT, INsofar AS POSSIBLE, INSTALL ALL CONDUITS PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES. MOUNT ON CHANNEL STRUT SUPPORTS.
- J. ALL CONDUITS SHALL BE RIGIDLY SUPPORTED TO BUILDING STRUCTURE. CONDUITS SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING SUPPORT WIRES.
- K. ALL CONDUIT BENDS SHALL BE MADE WITH AN APPROVED CONDUIT BENDER AND NO BEND SHALL HAVE A CENTERLINE RADIUS LESS THAN SIX TIMES THE DIAMETER OF THE CONDUIT.
- L. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY OF ALL FLOORS AND WALLS AFTER CORE DRILLS FOR CONDUITS ARE MADE.

3- BOXES

3.1 GENERAL

- A. INTERIOR OUTLET BOXES SHALL BE GALVANIZED STEEL, MINIMUM 14 GAUGE, NO LESS THAN 4" SQUARE WITH EXTENSION RINGS AND MOUNTING BRACKETS.
- B. JUNCTION AND PULL BOXES SHALL HAVE SCREW-ON COVERS OR LOCKING HINGED COVERS. NEMA 3R BOXES SHALL BE USED INDOORS. NEMA 3R BOXES WITH THREADED HUBS SHALL BE USED IN WET LOCATIONS.
- C. OUTLET BOXES SHALL BE RIGIDLY AND SECURELY FASTENED IN PLACE.
- D. OUTLET BOXES IN FINISHED AREAS SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
- E. BOXES SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314.
- F. ALL CONDUIT CONNECTORS AND ENTRY HUBS SHALL BE INSULATED OR HAVE INSULATED BUSHINGS.
- G. OUTLETS SHOWN ADJACENT TO ONE ANOTHER ON THE PLANS AT THE SAME MOUNTING HEIGHT SHALL BE GANGED EXCEPT WHERE NOTED.
- I. OUTLETS SHOWN ADJACENT TO ONE ANOTHER ON THE PLANS AT DIFFERENT MOUNTING HEIGHTS SHALL BE LOCATED WITH THE UPPER OUTLET CENTERED DIRECTLY OVER THE LOWER OUTLET.

4- WIRE AND CABLE

4.1 GENERAL

- A. ALL WIRE SHALL BE COPPER WITH INSULATION RATED AT 600 VOLTS, 75 DEGREES CELSIUS MINIMUM.
- B. MINIMUM WIRE SIZES SHALL BE #12 FOR POWER WIRING, #14 FOR CONTROL WIRING AND AS SPECIFICALLY NOTED FOR SYSTEMS WIRING.
- C. WIRE SHALL BE TYPE THHN OR THWN UP TO SIZE 10 AWG AND STRANDED TYPE THWN, XHHW, OR THHN FOR SIZE 8 AWG AND LARGER (UNLESS NOTED OTHERWISE).
- D. MC CABLE MAY BE USED FOR LIGHTING WHIPS. MAXIMUM 6 FOOT LENGTH, IN ACCESSIBLE LOCATIONS. MC CABLE MAY BE USED FOR BRANCH CIRCUITS WITHIN PARTITION WALLS. HORIZONTAL BRANCH CIRCUIT RUNS NOT WITH PARTITION WALLS SHALL BE IN CONDUIT.
- E. MOLDED CONNECTORS (WIRE NUTS) MAY BE USED FOR SPLICING SIZE 10 AWG OR SMALLER WIRING ON LIGHTING AND RECEPTACLE CIRCUITS ONLY. ALL OTHER WIRING SHALL BE SPLICED ONLY WITH LUGS AND/OR TERMINAL BLOCKS.
- F. TERMINAL LUGS SHALL BE MECHANICAL CLAMP OR COMPRESSION TYPE UNLESS PART OF A CIRCUIT BREAKER OR SWITCH ASSEMBLY. SET SCREW TYPE LUGS IN WHICH THE SET SCREW BEARS DIRECTLY ON THE CONDUCTOR SHALL NOT BE USED.
- G. SPECIAL LUGS MAY BE REQUIRED TO ACCOMMODATE CONDUCTOR SIZES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VERIFY LUG REQUIREMENTS FOR ALL CIRCUIT BREAKERS AND IDENTIFICATION TERMINALS AND SHALL PROVIDE CORRECT LUGS AS REQUIRED.

H. UNDER NO CIRCUMSTANCES SHALL FEEDERS BE SPLICED.

I. LIGHTING AND RECEPTACLE BRANCH CIRCUIT HOMERUNS OVER 100 FEET LONG SHALL BE SIZE 10 AWG MINIMUM.

J. COLOR CODE THE ENTIRE POWER WIRING SYSTEM AS FOLLOWS:

120/208 VOLT SYSTEM	277/480 VOLT SYSTEM
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN

5- GROUNDING

5.1 GENERAL

- A. PROVIDE A COMPLETE EQUIPMENT SAFETY GROUND SYSTEM ("GREEN WIRE" GROUND) FOR THE ALL ELECTRICAL WORK BEING PROVIDED FOR THIS PROJECT AS REQUIRED BY ARTICLE 250 OF THE NEC, AND AS SPECIFIED HEREIN.
- B. PROVIDE ADDITIONAL GROUNDING AS INDICATED ON THE PLANS.
- C. ALL GROUNDING WIRE, LUGS, JUMPERS AND BUS SHALL BE COPPER.
- D. ALL FEEDER AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND WIRE. NO CONDUIT OR RACEWAY OF ANY KIND OR LENGTH SHALL BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
- E. EQUIPMENT GROUNDING CONDUCTORS AND STRAPS SHALL BE SIZED IN ACCORDANCE WITH THE NEC. REFER TO FEEDER SCHEDULES FOR GROUND WIRE REQUIREMENTS WHICH MAY EXCEED THE NEC. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION EQUIVALENT TO THE INSULATION ON THE ASSOCIATED PHASE CONDUCTORS.
- F. THE EQUIPMENT GROUNDING SYSTEM SHALL BE INSTALLED SO ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, PIPING, SYSTEMS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES AND PORTABLE EQUIPMENT FRAMES OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.
- G. GROUNDING CONDUCTORS SHALL BE CONTINUOUS, AND NO SPLICING SHALL BE ALLOWED.
- H. RECEPTACLES SHALL BE BONDED TO THEIR OUTLET BOXES WITH #12 COPPER STRAPS.

6- EQUIPMENT

6.1 GENERAL

- A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL EQUIPMENT SHOWN ON THE DRAWINGS. ALL MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED REGARDING THE INSTALLATION OF ALL EQUIPMENT. ANY SPECIAL MANUFACTURER'S REQUIREMENTS NECESSARY FOR PROPER OR SAFE INSTALLATION OF EQUIPMENT REGARDLESS OF WHETHER THE AFOREMENTIONED SPECIAL REQUIREMENTS ARE INDICATED ON THE DRAWINGS SHALL BE AT THE EXPENSE AND RESPONSIBILITY OF THE CONTRACTOR.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE, RIGGING, ERECTION, INSTALLATION, AND FUNCTIONAL OPERATION OF ALL ELECTRICAL EQUIPMENT EXCEPT WHERE NOTED. ALL MATERIALS AND EQUIPMENT SHALL, WHEN A LISTING IS NORMAL, FOR THE PARTICULAR CLASS OF MATERIAL, OR EQUIPMENT, BE LISTED AND LABELED BY UL OR A NRTL.
- C. ALL LOCATIONS OF EQUIPMENT AND FIXTURES ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT TO SUIT FIELD CONDITIONS. ALL ADJUSTMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- D. COORDINATE ALL RECEPTABLES, PLUGS, WIRING AND LOCATIONS WITH THE EQUIPMENT PROVIDED PRIOR TO ROUGH-IN.

7- DEVICES

7.1 GENERAL

- A. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
- B. THE CONTRACTOR SHALL VERIFY LOCATION AND MOUNTING HEIGHT OF ALL DEVICES PRIOR TO INSTALLATION.
- C. WIRING DEVICES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
- D. RECEPTACLES SHALL BE FLUSH, DUPLEX, GROUNDING TYPE, 20A, 2P, 3W, 125VAC, NEMA 5-20R STRAIGHT BLADE, NYLON OR HIGH-STRENGTH THERMOPLASTIC MATERIAL, UNLESS INDICATED AS SPECIAL PURPOSE OUTLET. RECEPTACLES SHALL BE DESIGNED TO ACCEPT STANDARD TWO-WIRE PARALLEL CONNECTOR CAPS AND SHALL GRIP BOTH SIDES OF THE CONNECTOR WIRE.
- E. SINGLE THROW LIGHTING SWITCHES SHALL BE QUIET TYPE, 20A, 1P, 120/277VAC, ABLE TO ACCOMMODATE UP TO #10 CONDUCTORS AND DESIGNED FOR INDUCTIVE LIGHTING LOADS.
- F. THREE-WAY TOGGLE SWITCHES SHALL BE QUIET TYPE, 20A, 120/277VAC. SWITCHES SHALL BE POSITIVE ACTION TYPE AND SHALL NOT PERMIT A MAINTAINED NEUTRAL POSITION.
- G. CONVENIENCE RECEPTABLES SERVING COMMERCIAL KITCHENS (15 AND 20 AMPERE BRANCH CIRCUITS), BATHROOMS, TOILETS, WET LOCATIONS, AND CONSTRUCTION SITES SHALL BE OF THE GROUND FAULT INTERRUPTER TYPE. WEATHER RESISTANT, DUPLEX, GROUNDING TYPE, 20A, 2P, 3W, 125V, NEMA 5-20R, STRAIGHT BLADE, NYLON OR HIGH-STRENGTH THERMOPLASTIC MATERIAL.
- H. PROVIDE 0.4 INCH THICK SATIN FINISH, TYPE 302, STAINLESS STEEL PLATES AT ALL RECEPTACLE AND SWITCH OUTLETS UNLESS OTHERWISE SPECIFIED. PROVIDE GALVANIZED STEEL PLATES IN UNFINISHED SPACES.
- I. GANG MULTIPLE OUTLETS AT ONE LOCATION UNDER A SINGLE MULTI-GANG COVER PLATE.
- J. SWITCHES SHALL BE MOUNTED VERTICALLY. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE ROUGH-IN. IN OUTLET AND SWITCH PLATE LOCATIONS, ALL SWITCHES SHALL BE AT ONE LOCATION UNDER A SINGLE MULTI-GANG PLATE. LOCATE SWITCHES ON STRIKE SIDE OF DOOR BETWEEN 6" AND 12" FROM EDGE OF DOOR FRAME.
- K. DEVICE PLATES SHALL BE FITTED TIGHT TO THE WALL.
- L. DELAY INSTALLATION OF DEVICE PLATES UNTIL PAINTING IS COMPLETE.
- M. MOUNTING HEIGHT OF DEVICES SHALL BE TO THE CENTER LINE UNLESS OTHERWISE NOTED.

11- TESTING

11.1 GENERAL

- A. THOROUGHLY CLEAN THE ELECTRICAL EQUIPMENT AND ASSOCIATED ELECTRICAL MATERIALS BEFORE ENERGIZATION OF ANY PART OF THE ELECTRICAL SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL THE ELECTRICAL EQUIPMENT, RACEWAYS, CABLING, CABLE INSULATION AND OTHER RELATED ELECTRICAL SYSTEMS TESTED. ALL TEST RESULTS SHALL BE RECORDED, DATED AND SUBMITTED TO THE ENGINEER AND OWNER FOR RECORD. TEST PROCEDURES AND RESULTS SHALL BE PER NETA STANDARDS. IN THE ABSENCE OF RELEVANT NETA STANDARDS, THE CONTRACTOR SHALL SUBSTITUTE APPROPRIATE TEST PROCEDURES FROM IEEE OR ANSI. THE SUBSTITUTE TEST PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONDUCTING THE TESTS.
- B. THE ENGINEER RESERVES THE RIGHT TO ACCEPT OR REJECT TEST DATA WHICH DOES NOT CONFORM TO THE MANUFACTURER'S DATA OR IS NOT OBTAINED IN ACCORDANCE WITH THESE SPECIFICATIONS.
- A. COORDINATE NAMES, ABBREVIATIONS AND OTHER DESIGNATIONS USED IN ELECTRICAL WORK WITH CORRESPONDING DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED. PROVIDE NUMBERS, LETTERING AND WORDING AS RECOMMENDED BY MANUFACTURERS OR AS REQUIRED FOR PROPER IDENTIFICATION AND OPERATION/MAINTENANCE OF ELECTRICAL SYSTEMS AND EQUIPMENT.
- C. COMPLY WITH GOVERNING REGULATIONS AND REQUESTS OF GOVERNING AUTHORITIES FOR IDENTIFICATION OF ELECTRICAL WORK.
- D. WHERE ELECTRICAL CONDUIT IS EXPOSED, APPLY IDENTIFICATION ON CONDUIT, EXCEPT AS OTHERWISE INDICATED, USE PERMANENT VINYL, SELF-ADHERING MARKERS WITH BLACK LETTERS ON ORANGE BACKGROUND.
- E. APPLY SELF-ADHERING VINYL OR HEAT-SHRINK PLASTIC CABLE/CONDUCTOR IDENTIFICATION MARKERS ON EACH CABLE AND CONDUCTOR IN EACH BOX, ENCLOSURE OR CABINET WHERE WIRES OF MORE THAN ONE CIRCUIT ARE FREED, EXCEPT WHERE ANOTHER FORM OF IDENTIFICATION (SUCH AS COLOR-CODED CONDUCTORS) IS PROVIDED. MATCH IDENTIFICATION WITH MARKING SYSTEM USED IN PANELBOARDS, SHOP DRAWINGS AND CONTRACT DOCUMENTS.

F. WHEREVER REASONABLY REQUIRED TO ENSURE SAFE AND EFFICIENT OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND ELECTRICALLY CONNECTED MECHANICAL SYSTEMS, INSTALL SELF-ADHESIVE PLASTIC SIGNS WITH APPROPRIATE INSTRUCTIONS OR WARNINGS. WHERE DETAILED INSTRUCTIONS OR EXPLANATIONS ARE NEEDED, PROVIDE PLASTICIZED TAGS WITH CLEARLY WRITTEN MESSAGES ADEQUATE FOR INTENDED PURPOSES.

G. ALL FIELD INSTALLED CONTROL CIRCUITS SHALL HAVE TUBULAR SLEEVE-TYPE WIRE MARKERS AT EACH END OF THE CIRCUIT AND AT ALL SPLICE POINTS. WIRE MARKERS SHALL BE PERMANENTLY STAMPED WITH A NUMBERING SYSTEM SELECTED BY THE CONTRACTOR. THE NUMBERING SYSTEM SHALL BE THOROUGHLY DOCUMENTED AND PROVIDED TO THE ENGINEER.

H. RECEPTACLE COVER PLATES: PROVIDE LABEL ON FRONT OF COVER PLATE UNLESS OTHERWISE NOTED. LABEL SHALL INDICATE SOURCE PANEL AND CIRCUIT NUMBER. LABEL SHALL BE A LAMINATED, ADHESIVE BACKED, PEEL-OFF, POLYESTER TYPE LABEL. LABEL SHALL BE COMPRISED OF A POLYESTER BASE/SUBSTRATE AND A CLEAR POLYESTER TOP LAYER/LAMINATE. THE LABEL INK SHALL BE PRINTED UNDERNEATH THE CLEAR POLYESTER LAMINATE LABEL SHALL HAVE BLACK LETTERING ON CLEAR BACKGROUND. LABEL WIDTH SHALL BE A NOMINAL 0.47" (12 MM) WIDE. BASIS OF DESIGN IS THE TZE LABELING TAPE BY BROTHER MOBILE SOLUTIONS, INC. FOR USE WITH THE BROTHER P-TOUCH EDGE SERIES LABELING TOOLS.

I. DYMO (OR EQUIVALENT) LABELS SHALL NOT BE USED.

9- LIGHTING

9.1 GENERAL

- A. PROVIDE LIGHTING FIXTURES OF THE SIZES, TYPES AND RATINGS INDICATED ON THE DRAWINGS AND THE SCHEDULES. FIXTURES SHALL BE COMPLETE WITH HOUSINGS, ENERGY EFFICIENT BALLASTS, STARTERS, DRIVERS, WIRING, ENERGY EFFICIENT LAMPS, LAMP HOLDERS, LENSES, LOUVERS AND REFLECTORS. LIGHT FIXTURE VOLTAGE SHALL MATCH THE VOLTAGE OF THE CIRCUIT SERVING THE LIGHT FIXTURE.
- B. LIGHT EMITTING DIODE (LED) FIXTURES:
 - 1. COMPLY WITH IES LM79 AND IES LM80 LED PRODUCT TESTING PROCEDURES, AND DOE ENERGY STAR CRITERIA. COLOR SPATIAL UNIFORMITY SHALL BE WITHIN 10% OF CIE 1978 DIAGRAM. COLOR MAINTENANCE OVER RATED LIFE SHALL BE WITHIN .007 OF CIE 1978.
 - 2. WHITE LED LUMINAIRES SHALL ACHIEVE A MINIMUM CRI OF 80, AND R9 VALUE ABOVE 24, AND BINNING OF WHITE LENS USED IN THE LUMINAIRE SHALL FALL WITHIN A 3-STEP MACADAM ELLIPSE MINIMUM, OR AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE.
 - 3. LED PACKAGE(S)/MODULE(S)/ARRAY(S) USED IN QUALIFIED LUMINAIRE SHALL DELIVER AT LEAST 70% OF INITIAL LUMENS, WHEN INSTALLED IN-SITU, FOR A MINIMUM OF 35,000 HOURS.
- C. LED POWER SUPPLIES AND DRIVERS:
 - 1. POWER FACTOR 0.90 OR HIGHER, OUTPUT OPERATING FREQUENCY: 120HZ, INTERFERENCE EMI AND RFI COMPLIANT WITH FCC 47 CFR PART 15, TOTAL HARMONIC DISTORTION RATING: LESS THAN 3%, OR AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. MEET ELECTRICAL AND THERMAL CONDITIONS AS DESCRIBED IN LM-80 SECTION 5.0.
 - 2. OPERATING TEMPERATURE: MINIMUM OF -20°C OR BELOW WHEN USED IN LUMINAIRE INTENDED FOR OUTDOOR USE.
 - 3. MAXIMUM DRIVER CASE TEMPERATURE NOT TO EXCEED DRIVER MANUFACTURER RECOMMENDED IN-SITU OPERATION.
- D. LED CONTROL SYSTEM:
 - 1. SYSTEM ELECTRONICS DRIVER / CONTROLLER TO USE COORDINATED COMMUNICATION PROTOCOLS: DMX512, 0-10V, DALI, OR PROPRIETARY AS REQUIRED.
 - 2. CONTRACTOR TO ENSURE THAT EXTERNAL CONTROL EQUIPMENT IS COMPATIBLE WITH LED CONTROL REQUIREMENTS.
 - 3. COMPATIBILITY: CERTIFIED BY MANUFACTURER FOR USE WITH INDIVIDUALLY SPECIFIED LUMINAIRE AND INDIVIDUALLY SPECIFIED POWER SUPPLIES AND/OR DRIVERS.
- E. FIXTURES SHALL BE SECURED TO STRUCTURAL SUPPORTS AND SHALL NOT RELY ON CEILING SYSTEMS FOR SUPPORT. PENDANT FIXTURES SHALL BE PLUMB AND LEVEL. PENDANT MOUNTED FIXTURES, LARGER THAN 2 FEET SHALL BE INSTALLED WITH TWO (2) STEM HANGERS. STEM HANGERS SHALL HAVE BALL ALIGNERS AND PROVISIONS FOR MINIMUM ONE INCH SQUARE ADJUSTABLE PLASTER FRAMES SHALL BE PROVIDED FOR ALL RECESSED FIXTURES, INSTALLED IN OTHER THAN A SUSPENDED ACCESS CEILING SYSTEM.

10- FIRE ALARM SYSTEM

10.1 GENERAL

- A. HORN / STROBES SHALL BE SEMI-FLUSH MOUNTED WITH RED COVERS AND CLEAR STROBE LENS. HORN/STROBE SIGNALS SHALL COMPLY WITH THE REQUIREMENTS OF THE ADA.
- B. STROBE UNITS SHALL CONSIST OF A RED COVER AND CLEAR LENS. STROBE SIGNALS SHALL COMPLY WITH THE REQUIREMENTS OF THE ADA.
- C. STROBES SHALL BE PROVIDED WITH A CANDELA RATING AS INDICATED.
- D. ALL FIELD WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT AND BOXES SHALL BE SIZED ACCORDING TO NATIONAL ELECTRICAL CODE REQUIREMENTS BASED ON THE NUMBER OF CONDUCTORS. INITIATING DEVICE CIRCUIT WIRING SHALL BE TWO-CONDUCTOR TWISTED WITH INTEGRAL SHIELD AND GROUND, INDICATING APPLIANCE CIRCUITS SHALL BE MINIMUM 14 AWG.
- E. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED BY RED JUNCTION BOX COVERS STENCILED IN WHITE LETTERS "FIRE ALARM".
- F. FIRE ALARM WIRING SHALL BE COLOR CODED IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- G. ALL WORK INCLUDING EQUIPMENT TYPES, WIRING, CONNECTION POINTS, ETC. SHALL BE COORDINATED WITH THE SIMPLEX SHOW IS THE FIRE ALARM SYSTEM MANUFACTURER.

11- TESTING

11.1 GENERAL

- A. THOROUGHLY CLEAN THE ELECTRICAL EQUIPMENT AND ASSOCIATED ELECTRICAL MATERIALS BEFORE ENERGIZATION OF ANY PART OF THE ELECTRICAL SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL THE ELECTRICAL EQUIPMENT, RACEWAYS, CABLING, CABLE INSULATION AND OTHER RELATED ELECTRICAL SYSTEMS TESTED. ALL TEST RESULTS SHALL BE RECORDED, DATED AND SUBMITTED TO THE ENGINEER AND OWNER FOR RECORD. TEST PROCEDURES AND RESULTS SHALL BE PER NETA STANDARDS. IN THE ABSENCE OF RELEVANT NETA STANDARDS, THE CONTRACTOR SHALL SUBSTITUTE APPROPRIATE TEST PROCEDURES FROM IEEE OR ANSI. THE SUBSTITUTE TEST PROCEDURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONDUCTING THE TESTS.
- B. THE ENGINEER RESERVES THE RIGHT TO ACCEPT OR REJECT TEST DATA WHICH DOES NOT CONFORM TO THE MANUFACTURER'S DATA OR IS NOT OBTAINED IN ACCORDANCE WITH THESE SPECIFICATIONS.

NO	REVISION / SUBMISSION	DATE
	95% CD SUBMISSION	10/02/2020
	100% CD SUBMISSION	10/14/2020

CONSULTANTS

MEP ENGINEERING

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INTERIOR DESIGN

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TEL: 410-837-2767

PROJECT

OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV.

333 W. CAMDEN ST. | BALTIMORE, MD 21201

CERTIFICATION

PROFESSIONAL CERTIFICATION. HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A D.C. LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

NAME: RICHARD MILLER
LICENSE NO. 20953
EXPIRATION DATE: 07/17/2022

DRAWING TITLE

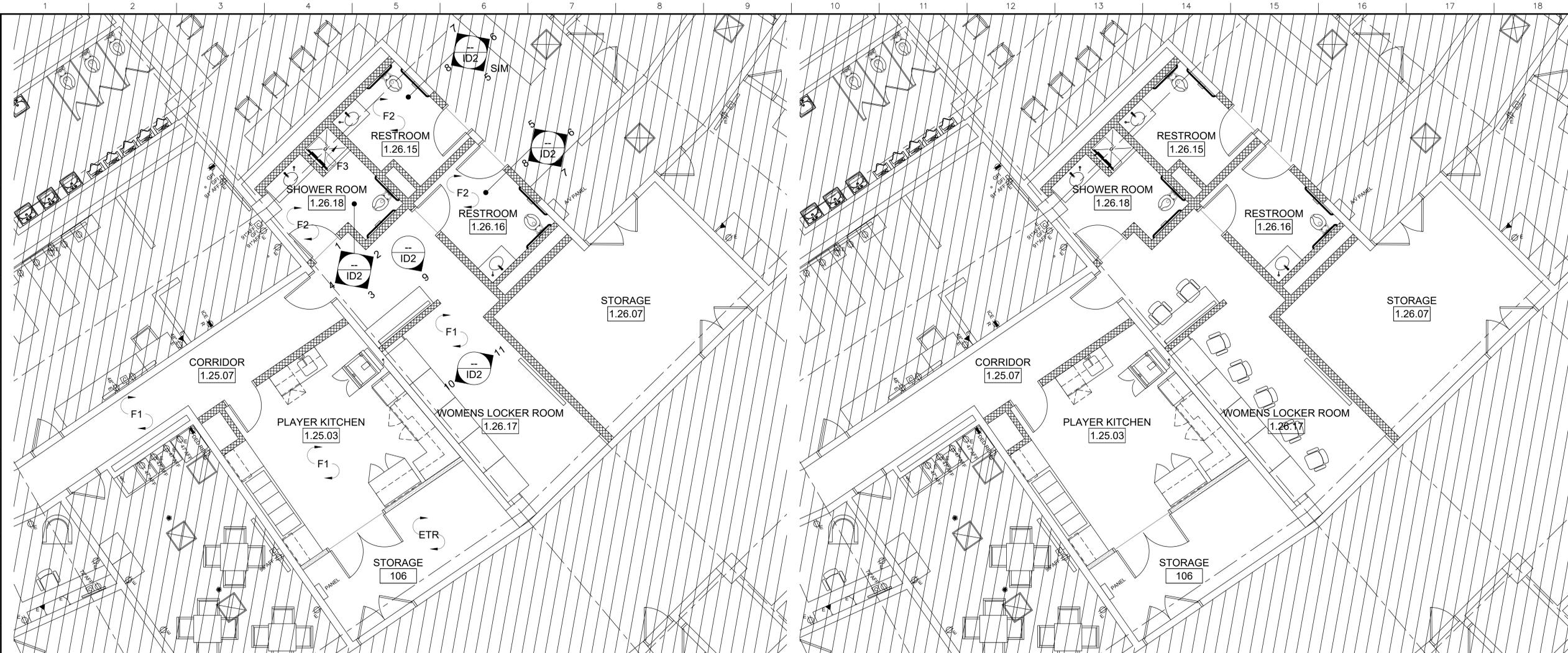
ELECTRICAL SPECIFICATIONS

DRAWN: MB PROJECT #: 20009.00
CHECKED: LSF DRAWING #
REVIEWED: RAM
DATE: 10/14/2020
SCALE: AS NOTED

E3.1

Printed By: Mikey Baran 10/13/2020 8:38 AM
AEC - G:\20082.01\Drawings\Arch\E3.1 - E Spec

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.



P1 FINISH PLAN
ID1 1/4" = 1'-0"

P2 FURNITURE PLAN
ID1 1/4" = 1'-0"

FINISH SCHEDULE											
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING		DOOR	DOOR FRAME	TRIM	CABINETRY	REF. NOTES
					TYPE	BULKHEAD					
VISITOR'S LOCKER ROOM											
1.25.03	PLAYERS KITCHEN	F2	B1	P1	C1	--	P2	P2	--	L1/L2	1
1.25.07	CORRIDOR	F1	B1	P1	C1	--	P2	P2	--	--	--
1.25.08	STORAGE	ETR	B1	P1	C1	--	P2	P2	--	--	--
1.26.07	STORAGE	ETR	B1	P1	C1	--	P2	P2	--	--	--
1.26.15	TOILET ROOM	F2	--	P1	C2/P3	--	P2	P2	--	L1/L2	2
1.26.16	TOILET ROOM	F2	--	P1	C2/P3	--	P2	P2	--	L1/L2	2
1.26.17	WOMENS LOCKER ROOM	F1	B1	P1	C1	--	P2	P2	--	L1/L2/S1	3,4
1.26.18	SHOWER ROOM	F2/F3	--	P1	C2/P3	--	P2	P2	--	L1/L2	2

- REFERENCE FINISH NOTES**
- SEE ARCHITECTS DRAWINGS FOR ELEVATIONS. CABINETRY TO BE FABRICATED OUT OF L2 WITH AN L1 TOP AND BACKSPLASH.
 - TOILET ROOM & SHOWER ROOM VANITIES TO BE FABRICATED WITH AN L1 TOP AND L2 ADA VANITY BASE.
 - DESK AT WOMEN'S LOCKER ROOM TO BE FABRICATED WITH AN L1 TOP AND 2" BACKSPLASH WITH L2 SUPPORT BRACKETS.
 - LOCKERS TO BE STAINED S1 TO MATCH L2, BILTMORE CHERRY.

FINISH SPECIFICATIONS						
ITEM	MATERIAL	MANUFACTURER	STOCK NUMBER	COLOR	DESCRIPTION / NOTES	PURCHASING CONTACT INFORMATION
B1	VINYL BASE	JOHNSONITE	CB-40-4	BLACK	4-1/8" VINYL BASE WITH TOE	
C1	ACOUSTICAL CEILING TILE	ARMSTRONG	1915	WHITE	24" X 48" TILE WITH WHITE GRID GRID & EDGE TO MATCH EXISTING	
C2	GYPSUM WALL BOARD	--	--	P3	--	
F1	CARPET	EF CONTRACT	DTR58	CITY LIMITS	24" X 24" TILE, PATTERN SCROLL, ENCORE SD NYLON, SOLUTION DYED, 14OZ. QUARTER TURN INSTALLATION	MICHAEL GOMBERT 443.239.9727
F2	PORCELAIN TILE	ARCHITECTURAL CERAMICS	ARISTOCRAT	ANTHRACITE NATURAL	12" X 24" TILE, GROUT: MAPEI FLEXCOLOR, #10 BLACK USE SCHLUTER-SCHIENE, SATIN ANODIZED ALUMINUM (AE)	KERSI PRESS 410.522.1072
F3	PORCELAIN TILE	ARCHITECTURAL CERAMICS	ARISTOCRAT	ANTHRACITE NATURAL	1" X 1" MOSAIC TILE, GROUT: MAPEI FLEXCOLOR, #10 BLACK	KERSI PRESS 410.522.1072
H1	HARDWARE	--	--	--	USE/MATCH EXISTING	
L1	PLASTIC LAMINATE	NEVAMAR	S6053T	JETT BLACK	SELF-EDGE	
L2	PLASTIC LAMINATE	WILSONART	7924K-07	BILTMORE CHERRY	USE COORDINATING EDGE BAND AT CUSTOM CABINETRY	
P1	PAINT	SHERWIN WILLIAMS	SW7029	AGREEABLE GRAY	DRYWALL: EGGSHELL CMU: SEMI GLOSS	
P2	PAINT	BENJAMIN MOORE	2133-10	ONYX	SEMI GLOSS	
P3	PAINT	--	--	CEILING WHITE	SEMI GLOSS	
S1	STAINED WOOD	--	--	MATCH L2	MAPLE LOCKERS TO BE "FACTORY" SPRAYED WITH A MULTI COAT STAIN	
WT1	WALL TILE	ARCHITECTURAL CERAMICS	NOBLE	GIOIA HONED	12" X 24" TILE, GROUT: MAPEI #93 WARM GRAY USE SCHLUTER-QUADEC, GREIGE AS TOP CAP OF TILE. CONTRACTOR TO ORDER ALL COORDINATING INSIDE AND OUTSIDE CORNER ACCESSORIES	KERSI PRESS 410.522.1072

NO	REVISION / SUBMISSION	DATE
95%	CD SUBMISSION	10/02/2020
100%	CD SUBMISSION	10/14/2020

SHAMU MACHOWSKI + PATTERSON ARCHITECTS, 180 CATHEDRAL STREET, BALTIMORE, MD 21201 TEL 410-685-3582 WWW.SMP-ARCHITECTS.COM

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PROJECT
OPCY SERVICE LEVEL WOMEN'S LOCKER ROOM RENOV., 333 W. CAMDEN ST. | BALTIMORE, MD 21201

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.
Name: Walter Schamu
License: 3715-B
Expiration: May 2, 2022

DRAWING TITLE
FINISH, FURNITURE PLANS AND SPECIFICATIONS

DRAWN PROJECT # 20009.00
CHECKED DRAWING #
REVIEWED
DATE 10/14/2020
SCALE
AS NOTED

ID1

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.



NO	REVISION / SUBMISSION	DATE
95%	CD SUBMISSION	10/02/2020
100%	CD SUBMISSION	10/14/2020

SCHAMU MACHOWSKI + PATTERSON ARCHITECTS,
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CONSULTANTS
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 BURDETTE KOEHLER MURPHY & ASSOC.
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 BALTIMORE, MD 21209
 TEL 410-323-0600

INTERIOR DESIGN
 AUMEN ASNER, INC.
 100 NORTH CHARLES STREET, SUITE 910
 BALTIMORE, MD 21201
 TEL 410-637-2767

PROJECT
**OPCY SERVICE LEVEL
 WOMEN'S LOCKER ROOM RENOV.**
 333 W. CAMDEN ST. | BALTIMORE, MD 21201

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.
 Name: Walter Schamu
 License: 3715-B
 Expiration: May 2, 2022

DRAWING TITLE	
ELEVATIONS & SECTIONS	
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ID2

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.

GENERAL NOTES- FINISH PLAN

1. *ALL PUBLIC SPACE WALLS TO RECEIVE LATEX EGGSHELL PAINT U.O.N.
*ALL TRIM, BATHROOM CEILINGS AND MILLWORK TO RECEIVE LATEX SEMI-GLOSS PAINT.
*PUBLIC RESTROOMS TO RECEIVE LATEX EGGSHELL PAINT.
2. ALL SURFACES RECEIVING PAINT OR WALLCOVERING TO BE PROPERLY PREPARED AND READY TO RECEIVE FINISH IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS. WALLS TO BE SPACKLED (MINIMUM THREE COATS), SANDED, AND PRIMED. ALL SURFACES SHALL BE CLEAN AND FREE OF DUST, GREASE, OIL, OR ANY FOREIGN SUBSTANCE THAT WILL INTERFERE WITH FINISH.
3. HOLES, CRACKS, AND OTHER IMPERFECTIONS SHALL BE SUITABLY PATCHED AND FILLED WITH A COMPOUND, RECOMMENDED BY THE MANUFACTURER OF THE FINISH PRODUCT, AND THEN PRIMED. SURFACES WILL BE BROUGHT TO TRUE, EVEN SURFACES PRIOR TO FINISHING. CONTRACTOR TO INSPECT AND APPROVE ALL EXISTING WALL SURFACES PRIOR TO FINISH APPLICATION/INSTALLATION.
4. REMOVE OR PROVIDE SURFACE-APPLIED PROTECTION TO ALL HARDWARE, HARDWARE ACCESSORIES, MACHINED SURFACES, PLATES, LIGHTING FIXTURES, AND SIMILAR ITEMS NOT TO BE FINISHED, PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. FOLLOWING COMPLETION OF PAINTING EACH AREA, WORKMEN SKILLED IN THE TRADES INVOLVED SHALL REINSTALL REMOVED ITEMS. BEFORE PAINTING OR SPRAYING DRYWALL, ADJACENT FINISH ITEMS SHALL BE MASKED. KITCHEN CABINETS, BATHROOM FIXTURES, ETC. SHALL BE COVERED IF ALREADY INSTALLED.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A CLEAN AND CLEARED FLOOR, FREE OF HOLES OR DEPRESSIONS, AND ACCEPTABLE FOR INSTALLATION OF ALL FLOORCOVERINGS AND UNDERLAYMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE OWNER.
6. INSTALLER SHALL BE RESPONSIBLE FOR QUANTITY TAKE-OFF, SUPPLYING, RECEIVING, STORING, AND INSPECTING ALL FLOORCOVERINGS PRIOR TO FABRICATION AND/OR INSTALLATION, U.O.N. ANY MANUFACTURING DEFECT SHALL BE REPORTED TO AUMEN ASNER IMMEDIATELY.
7. THE DRAWINGS INDICATE THE DESIRED AREA OF CARPETED FLOORING MINOR DEVIATIONS MAYBE REQUIRED DUE TO JOB SITE CONDITIONS. PROVIDED NO MAJOR REARRANGEMENTS ARE REQUIRED, WORK SHALL BE COMPLETED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. AUMEN ASNER, INC. TO APPROVE REQUIRED ALTERATIONS PRIOR TO INSTALLATION.
8. ALL USABLE PIECES OF CARPET OR OTHER FLOORCOVERING LEFT OVER AND NOT NECESSARY TO COMPLETE THE INSTALLATION ARE TO BE LEFT IN THE BUILDING IN AN AREA DESIGNATED BY OWNER/CLIENT AND SHALL BE LABELED FOR IDENTIFICATION. ALL SUCH PIECES SHALL BECOME THE PROPERTY OF THE OWNER.
9. CONTRACTOR TO PROVIDE 5% ATTIC STOCK OF CARPET. ADDITIONAL CARPET IS TO BE LABELED FOR IDENTIFICATION AND STORED IN THE BUILDING IN AN AREA DESIGNATED BY THE OWNER.
10. CONTRACTOR TO SEND SUBMITTALS FOR ALL FINISHES TO AUMEN ASNER, INC. FOR APPROVAL PRIOR TO INSTALLATION.

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SEAL

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FINISH NOTES

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ID3

OPCY SERVICE LEVEL - WOMEN'S LOCKER ROOM RENOV.