SECTION 00620

SPECIAL PROVISIONS
Recreation Center Locker room remodel
Greeley, Colorado

DESCRIPTION OF THE PROJECT:

The bleachers on the pool side of the locker rooms need to be re-configured to make room for the new doors from the locker rooms into the pool area. It is important that the contractor use temporary walls to keep the public from entering the construction zone and dust protection to alleviate as much dust from the build getting into other areas of the building. The drains are accessible from the weight room in the lower level. The weight room equipment will have to be re-located prior to the work starting, once the work is completed the equipment will have to be moved back. This will be done by others. The current locker rooms must remain open, on a limited basis, until the family changing rooms are complete. Once the family changing rooms are completed, they will be used so the locker rooms can be closed for construction. As stated above in the "Goals" section, the current locker rooms will be demolished and rebuilt. Both men and women will have individual showers with benches and doors for more privacy. The shower area will have a hard ceiling and updated lighting. A drop ceiling will be installed in the general locker room. The new locker room walls will be tiled and epoxy grouted, The floor will be epoxy coated, with updated lighting throughout. New vanity solid surface counter tops and under mounted sinks and ADA compliant faucets, hose bibs will be installed under the vanities, these will be used to aid in cleaning. Lockers will be installed at the opposite ends of the room on a concrete type of bench. The architectural firm has been retained to answer RFI's.

LOCATION OF WORK:

All work is located at one location; **Greeley Recreation Center Locker rooms at 651 10th Avenue**

SPECIFICATIONS:

This project subject to the following drawings and specifications: See attached Drawing for a detailed scope of work.

1. **Construction scheduled time frame for the Recreation Center is May 1st thru August 31st 2024, 120 days.**
2. Work hours are 7:00 AM to 5:00 pm, unless coordinated with Facilities Division.
3. Restroom facilities will be available within the facility.
4. All work must be complete by August 31st, 2024
5. Parking will be available at facility.

Facility keys will be issued at the front desk for access to the work area. Must be returned upon completion of each work day.

6. Electrical and water shutdowns for this project during construction period must be coordinated with Recreation Center. **Contact person Brett Ford @ 970/ 371-3758 Contact person for Facilities Division. Terry Griebe @ 970/539-6232 for issues during project.**
7. Per-bid meeting and walk-through is highly recommended to bid this project.
8. Construction work area shall be cleaned up at the end each workday.
9. Final cleaning will be done by a professional cleaning service that specialize in construction cleaning.
10. The west parking lot will be shared by City staff and contractors
11. The contractor is responsible for a Dumpster, it can be placed in the west lot.
12. The contractor is responsible for protecting any surface, flooring, walls ,ceiling, doors, windows etc… any damaged done will be fixed at no cost to the owner.
13. **As stated above that the family changing rooms be done first and then the rest of the locker rooms be remodeled, is but one solution to the problem of trying provide showers and locker rooms to our customers during construction. CPRD will work with the chosen contractor on other possible solutions.**

PERMITS:

The Contractor must be licensed with City of Greeley. Contractor will obtain necessary permits for work in public facilities. City will waive permit fees.

CONTRACT TIME, LIQUIDATED DAMAGES, DELAYS:

Work shall be completed within (120) days, calendar days of the Notice to Proceed. The Notice to Proceed will be issued after a meeting with the selected contractor, and that contractor has an opportunity to schedule this work.

Liquidated damages will be withheld from the final payment to the Contractor for each day that the project's substantial completion is delayed beyond the contract completion date (60 calendar days plus any additional time allowed by the City per change orders).

Liquidated damage amount will be $500.00 per calendar day.

Liquidated damages are based on additional costs to the City of Greeley for delay of project completion and are not a "late penalty".

Additional time will be allowed for formal seasonal "bad weather" days. The Contractor shall provide documentation of weather history as described below when submitting requests for additional time for severe weather. An actual adverse weather day must prevent work for 50 percent or more of the CONTRACTOR'S workday, delay work critical to the timely completion of the

project, and must be documented by the CONTRACTOR. The OWNER'S representative observing the construction shall determine on a daily basis whether or not work can proceed or if work is delayed due to adverse weather or the effects thereof. The CONTRACTOR shall notify the OWNER'S representative in writing of any disagreement as to whether or not work can proceed on a given date, within two (2) calendar days of that date. The OWNER'S representative will use the above written notification in determining the number of working days for which work was delayed during each month.

While extensions of time shall be granted for "unusually severe" weather or climate conditions, no monetary compensations shall be made by the OWNER for any costs to the CONTRACTOR arising out of such delays. The CONTRACTOR shall comply with the portions of these contract documents relating to his project schedule and amendments thereto which result from "unusual severe" weather condition.

Work Hours:
The Contractor is limited to working between 7.00 am to 5:00 pm or per-determined after hours. The work must be coordinated with Terry Griebe@ 970/539-6232 Project Manager or Chris Freeland @ 970/617-6954 Facilities Architect.

MEASUREMENT AND PAYMENTS:
This contract is a Lump sum price for construction, etc. No additional payment for work not described in these documents will be allowed, whether a bid item exists or not. The Contractor shall include the costs of all incidentals of construction, labor, equipment, and materials in the appropriate bid item.

FINAL CLEAN UP:
At the completion of the contract and prior to submittal of final pay request, the Contractor shall clean up all construction material and debris. The Contractor shall notify the City when final cleanup is ready for inspection. A professional cleaning service will be used for the final deep cleaning.

POST CONSTRUCTION INSPECTION AND WARRANTY:
Please see General conditions 501 article 11

END OF SECTION 00620

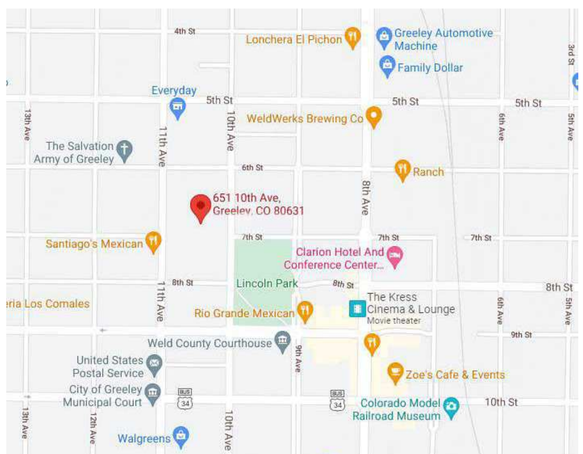
Greeley Recreation Center
Locker Room Remodel

651 10th Ave.
Greeley, CO 80631

Revision #4

Issued for

Construction



Vicinity Map
Not to Scale

Code Analysis

Project Description:
This project contemplates the demolition of existing locker and restrooms and reconfiguration of space for new locker and restrooms. A new family changing area will be added with private rooms for family use. This will also include a private room with an adult changing table that does not include a shower. Each area will have an exit/access point from the existing main corridor, as well as a secure access door to the pool area. To allow for accessibility to/from the pool area, existing bleachers will be reconfigured. No new bleacher seating will be added in the pool area. Existing building exits and other accessible features will remain unchanged. The existing sprinkler system will be modified for reconfigured locker and changing areas. Existing HVAC will be reconfigured for new spaces. New plumbing fixtures will be installed, and internal plumbing will be reconfigured for new layout. Ceiling finishes will be replaced as shown and new light fixtures will be provided in reconfigured locker and storage areas. Existing 45 min. rated wood doors at existing hallway with panic hardware will be replaced with new 45 min. rated wood doors with panic hardware. Existing 90 min. rated steel doors at pool access will be replaced with 90 min. rated steel doors.

Building Floor Areas:
- Group A-3 Existing Locker Area
  - Men's Locker = 1,159 s.f.
  - Women's Locker = 1,273 s.f.
  - Family Area = 311 s.f.
  - Storage = 592 s.f.
  - Accessory (Demising walls, Hallway vestibule, etc.) = 224 s.f.
  - Total Area = 3,559 s.f.
- Group A-4 Existing Pool Area to remain= 13,309 s.f.
- Group A-3 New Locker Area
  - Men's Locker = 1,283 s.f.
  - Women's Locker = 1,257 s.f.
  - Family Area = 479 s.f.
  - Storage = 129 s.f.
  - Accessory (Hallway, Vestibule, etc.) = 372 s.f.
  - Total Area = 3,520 s.f.
- Total Building = 69,859 s.f. (per Weld Co. Property Report)

2018 International Building Code
Chapter 3 Occupancy Classification (remodel areas only)
Group A-3 Gymnasium
Group A-4 Swimming Pool with Spectator Seating

Chapter 6 Types of Construction
Assume Type II-B Construction

Chapter 7 Fire Resistance Rated Construction
720.2 Concealed insulation shall have flame spread index <25, smoke index <450
Table 716.1(2) 45 and 90 min. rated doors shall have maximum 100 sq. in. lite

Chapter 8 Interior Finishes
Table 803.13
Groups A-3 and A-4 Rating B for corridors & exit access: Flame spread 26-75, Smoke 0-450
Groups A-3 and A-4 Rating C for rooms: Flame spread 76-200, Smoke 0-450

Chapter 10 Means of Egress
1004 Occupant load:
- Demolished Locker Area = 3446/50 = 69 occupants (as calculated per 2018 IBC)
- Men's Locker = 1283/50 (gross) = 26 occupants
- Women's Locker = 1257/50 (gross) = 26 occupants
- Family Area = 479/50 (gross) = 10 occupants
- Storage = 129/300 = 1 occupant
- Total (Remodel area only) = 63 occupants

Table 1006.2.1 One exit required from each locker room
- Common path of travel from Family Locker 111 hall opening to existing exit vestibule = 73'

1007.1.1 Exits shall be placed not less than one third the diagonal distance of floor area apart
1008 Means of egress illumination required with emergency power at exits
1010.1.2.1 Doors shall swing in direction of egress travel if occupant load >50
1010.1.5 Doors on an accessible route shall have a floor or landing on each side
1010.1.6 Landings shall extend min. 44" in the direction of travel
1010.1.9 Egress doors shall be openable from egress side without key or special knowledge
1010.1.10 Egress doors in Group A for spaces with <49 occ. not required to have panic devices
1016.2.1 Egress shall not pass through a room unless accessory and with discernable path to an exit
1016.2.3 Exit access shall not pass through a room that can be locked
1016.2.5 Egress shall not pass through storage rooms
Table 1017.2 250' max. sprinklered exit distance
- actual exit distance = 140' (worst case from Changing #5) See

1024.2 Exit passageway minimum width = 44", for occ. load >50 or = 36" min. for occ. load 50

Chapter 11 Accessibility
1104 At least one accessible route shall connect all accessible floors and areas and shall coincide with circulation path
1109.2 Each toilet room shall be accessible, at least one of each type of fixture and accessory shall be accessible
1109.2.2 At least one Wheelchair-accessible compartment shall be provided in each restroom
1109.3 At least one lavatory must be accessible
1111 Accessible signage required at restrooms and accessible entrances

Chapter 12 Interior Environment
See Mechanical Design for ventilation and temperature requirements
See Electrical Design for lighting requirements
1209.2.2 Walls within 2' of restroom sinks, urinals & water closets shall have smooth, hard, nonabsorbent finish, min. 4' a.f.f.

Chapter 29 Plumbing Systems
Fixture Count:
- Men's Showers: 12 existing, 7 new
- Men's Water Closets: 2 existing, 2 new
- Men's Urinals: 2 existing, 2 new
- Men's Lavatories: 4 existing, 4 new
- Women's Showers: 6 existing, 10 new
- Women's Water Closets: 4 existing, 5 new
- Women's Lavatories: 4 existing, 4 new
- Family Showers: 2 existing, 4 new
- Family Water Closets: 1 existing, 5 new
- Family Lavatories: 2 existing, 5 new

Bid Add Alternates:
3 1. Provide bid add alternate to repaint entire length of CMU walls in Existing Corridor, and Existing Meeting Rm (east of Family Changing) from top of existing wall base to ceiling.
2. Provide bid add-alternate to remove and replace wall tile behind pool area bleachers along South wall (only). New tile shall be Daltile Color Wheel Collection Classic, 3x6 tiles in color as selected by Architect and Owner, should alternate be selected.
3. Provide bid add-alternate to install painted steel doors in lieu of the prefinished wood doors scheduled for Doors 112.1, 113.1, 114.1, 115.1 and 116.1.
4. Provide bid add alternate for adult changing table in Changing #5/116. Unit shall be 55" Pressalit Nursing Bench 1000 for adults, in adjustable height as provided by Patient Safety USA. Provide power as indicated on Electrical Drawings in base bid. G.C. include changing table (only) in bid add-alternate for Owner review prior to purchase. Include wall blocking and electrical power in base bid.

Architect:
Halcyon Design LLC
PO Box 684
LaSalle, CO 80645

Mechanical/Plumbing
/Electrical Engineer:
G2 CONSULTING ENGINEERS, INC.
1039 Main Street, Unit G
Windsor, CO 80550

Project Information
Jurisdiction: City of Greeley
Parcel No. 096105308006
Legal Description: GR 4748-A BLK35 TOG WITH VAC E-W ALLEY ALSO N2 VAC 7TH ST LYING W OF W LN 10 AVE & E OF E LN 11 AVE
Subdivision: GREELEY CITY
Zoning: C-H Commercial High Density

Legend

2 / A4	Section Cut
100'-0" / 100'-0" Finish Floor	Elevation Markers
	Revision Number & Cloud
C|J C.J.	Control joint
	Compacted Soil Fill
	Gravel
	Sand
	Concrete
	Expansion Joint
	Batt Insulation
	Rigid Insulation/EPS
	Plywood or OSB
	Gypsum Board Drywall
	Wood Blocking
	Finish Carpentry
V.I.F.	Verify in Field
U.N.O.	Unless Noted Otherwise

Sheet Index**

Rec. Center Locker Rm Remodel
651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
LaSalle, CO 80645
303.906.2617

STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

DATE
10.24.21

REVISIONS
1 - 11.16.22
2 - 2.14.22
3 - 8.29.23
4 - 9.11.23

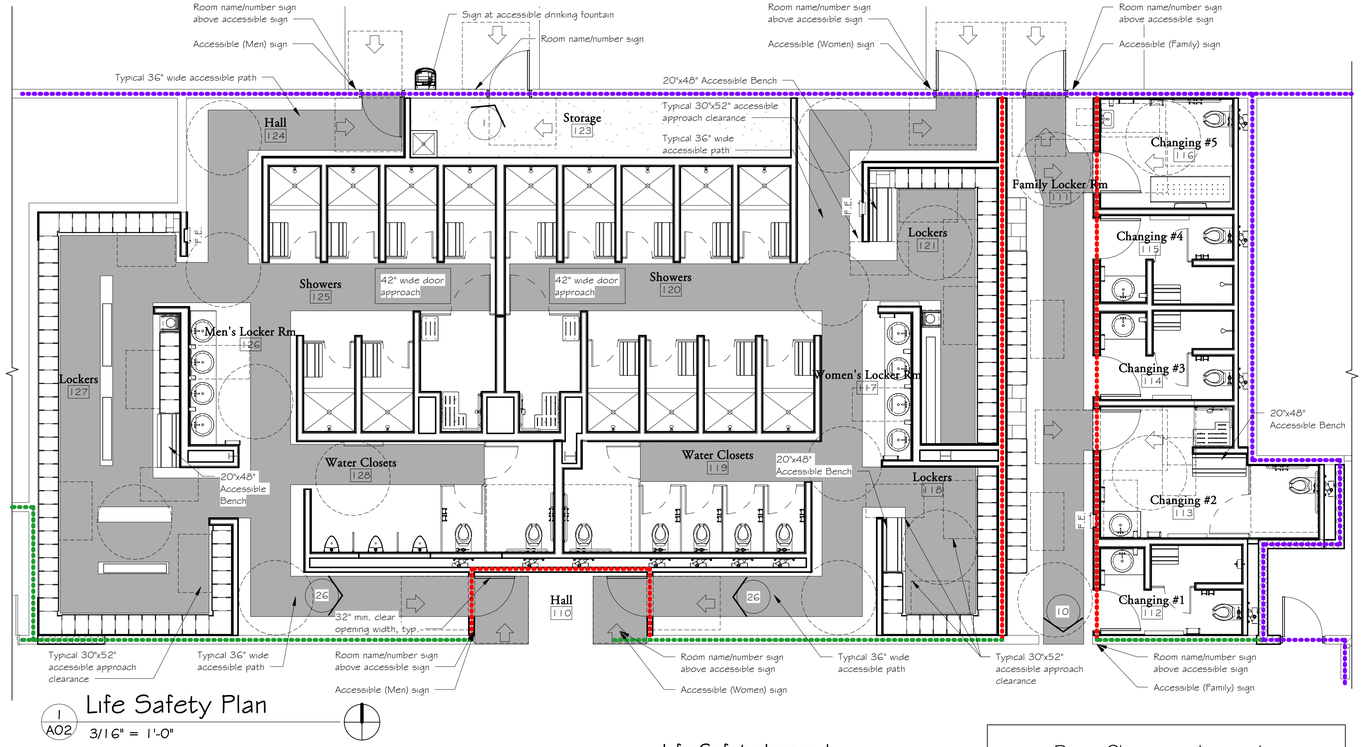
SHEET TITLE
Cover Sheet

SHEET NUMBER
A00

Project No. 2102

Figure 703.7.2.1
International Symbol of Accessibility

2 / A02 Accessible Signage
3/4" = 1'-0"

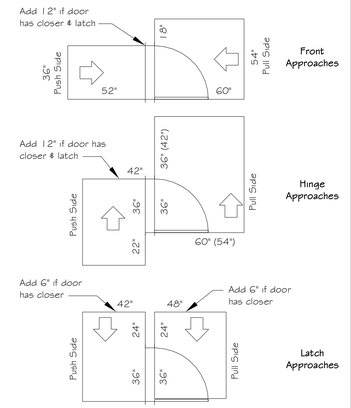


1 / A02 Life Safety Plan
3/16" = 1'-0"

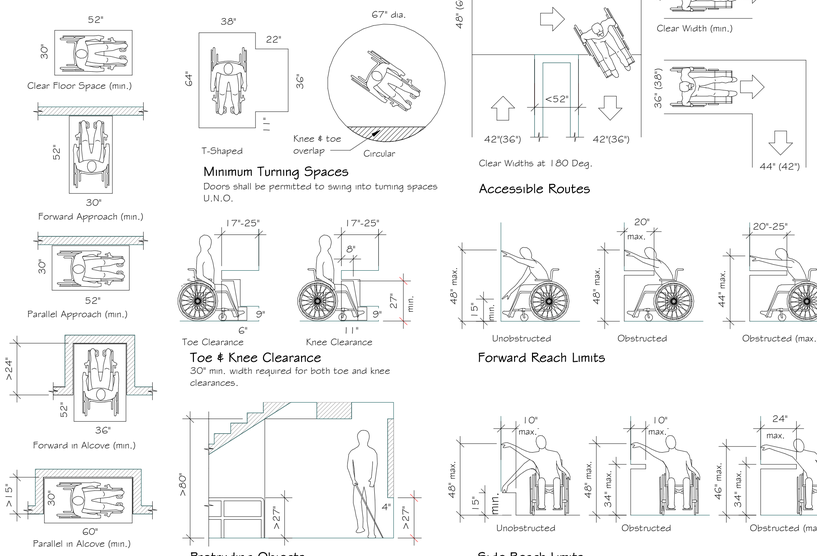
Life Safety Legend

- Accessible Egress Travel Path
- New 1 HR Fire Barrier (See UL assemblies Sheet A03)
- Existing 1 HR Fire Barrier to be maintained
- F.E. Fire Extinguisher, wall or cabinet mounted
- Existing 2 HR area separation to be maintained
- 7 Number of Occupants
- Direction of Egress

Door Clearance Legend
Clearances shown are clear minimums per 2009 ANSI 117.1



Accessibility Clearances
Clearances shown are clear minimums per 2017 ICC A117.1



Clear Floor Space

General Code Compliance and Signage Notes:
1. Provide accessibility complying with the Americans with Disabilities Act "ADA," ANSI 117.A and all local accessibility codes.
2. Plan illustrates accessible floor clearances required at doors as well as other required accessibility features of the renovated portion of the building.
3. Some doors have both a closer and a latch requiring additional clearance - refer to Door Clearance Legend, this Sheet.
4. Room signage shall comply with Section 4.30 of the A.D.A. with regard to character, size, proportion, stroke, color, relief, sign construction, location and height. Restroom signs shall have the international symbol of accessibility and braille transcription. Provide signs at locations noted on Life Safety Plan. See also Sheet A52 for signage at family changing rooms.
5. All signage shall have raised character and grade 2 braille per Section 4.30 of the A.D.A., mounted 5'-0" a.f.f. adjacent to the doors, and have color contrasting the surrounding wall. Provide white signs with dark blue lettering and symbols to match existing signage. Sign at drinking fountain shall include Internation Symbol of Accessibility.
6. Rooms shall also have identifying signage of white signs with dark blue letterng and symbols to match existing signage, with room name and number. Verify room name and number with Owner prior to ordering.
7. See Sheet A03 for fire rated assembly details.
8. See Sheet A20 for protected openings and levels of protection.
9. Fire rating information regarding existing building assemblies was taken from original recreation center drawings dated 8.4.83.
10. Fire Marshall to verify locations of three (3) fire extinguishers - see Plan this sheet for proposed locations. Provide fire extinguishers in semi-recessed cabinets, JL Industnes Ambassador 1017F10.

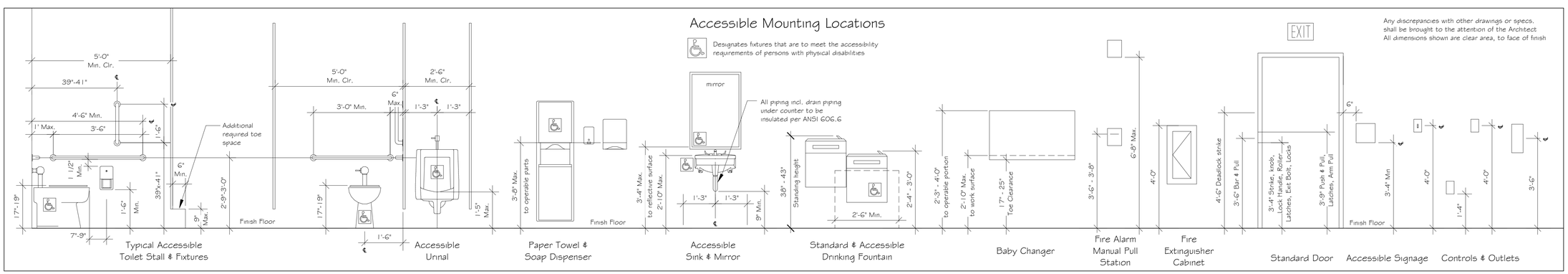
Accessibility Notes (ADA 2010 and ANSI 117.1 2009):
222.1 Min. of 5% of each type of locker in each cluster shall be accessible
- Lockers 118 = Total 24 lockers, 2 accessible lockers
- Lockers 121 = Total 32 lockers, 2 accessible lockers (3 provided)
- Lockers 127 = Total 77 lockers, 4 accessible lockers
- Family 111 = Total 20 lockers, 4 accessible lockers
- Additional accessible lockers proposed for Family Locker Rm 111, See Sheet A51

308.1 unobstructed forward reach 15" to 48" high
308.3 unobstructed side reach 15" to 48"
803.1 privacy equivalent to other users
803.4 bench shall be provided in each room
803.5 coat hooks shall be within reach ranges, shelves shall be 40" to 48"
803.2 turning space shall be provided in each room
811.3 storage elements must comply with one of reach ranges in section 308
811.4 operable parts per section 309
903.3 benches shall be min. 42" long with 20" to 24" deep seat
903.4 benches shall provide for back support or be affixed to wall
903.5 top of bench shall be 17" to 19"
903.7 bench seat shall be slip resistant

Accessible Mounting Locations

Designates fixtures that are to meet the accessibility requirements of persons with physical disabilities

Any discrepancies with other drawings or specs. shall be brought to the attention of the Architect
All dimensions shown are clear area, to face of finish



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Halcyon Design LLC
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STATE OF COLORADO
KELLY CHRISTINE DEITMAN
40018
10.24.21
LICENSED ARCHITECT

DATE
10.24.21

REVISIONS

SHEET TITLE
Code Compliance

SHEET NUMBER
A02

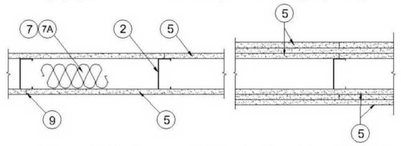
Project No. 2102

Design No. U423
October 10, 2017

Bearing Wall Ratings — 3/4 Hr, 1, 1-1/2 or 2 Hr (See Items 5 & 7)

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

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



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel, that provide a sound structural connection between steel studs and adjacent assemblies such as floors, ceilings and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC.

2. **Steel Studs —** Min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications.

3. **Lateral Support Members —** (Not shown) — Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered when load is reduced to 90 percent of max stud capacity. When load is at 100 percent, horizontal edge joints and horizontal butt joints on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. When used in widths other than 48 in., gypsum panels to be installed horizontally. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr, and 2 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	No. of Layers & Thkns of Panel	% of Design Load
45 Min	1 layer, 1/2 in. thick	100
1 hr	1 layer, 5/8 in. thick	100
1-1/2 hr	2 layers, 1/2 in. thick	100
2 hr	2 layers, 5/8 in. thick	80
2 hr@	2 layers, 5/8 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
2 hr	2 layers, 3/4 in. thick	100

This option for 2 HR metal stud partitions

6. **Fasteners —** (Not Shown) — For use with Item 5 and 5F - Type S-12 steel screws used to attach panels to runners (Item 1 or 1A) and studs (Item 2 or 2A) or furring channels (Item 8). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 12 in. OC when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in. and 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Batts and Blankets* —** (Required as indicated under Item 5 and 5F) — Nom 2 in. thick mineral wool batts, friction fitted between studs and runners. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

8. **Furring Channels —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 panhead steel screws. Not for use with type FRX-G gypsum panels and Item 5A or 5C.

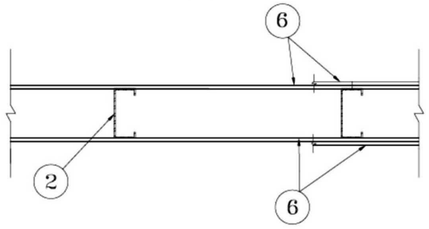
9. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

3 A03 — 2 HR Fire Barrier - Stud Option
1" = 1'-0"

2 A03 — 2 HR Fire Barrier - CMU Option
1" = 1'-0"

Design No. U407
February 25, 2015

Nonbearing Wall Ratings — 1/2 or 1 HR. (See Items 1, 1A, 2, 2A and 6)
Bearing Wall Rating — 1/2 HR. (See Items 3 and 6)
Finish Rating — (See Item 3)



1. **Floor and Ceiling Runners —** (Not shown- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. **Framing Members*— Floor and Ceiling Runners —** (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2A, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
1B. **Framing Members* - Floor and Ceiling Runner —** (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2B, proprietary channel shaped runners, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.
1C. **Framing Members*— Floor and Ceiling Runners —** (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2C, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size , attached to floor and ceiling with fasteners 24 in. OC. max.
2. **Steel Studs —** (For the 1/2 or 1 Hour Nonbearing Wall Ratings) Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
6. **Gypsum Board* —** 5/8 in. thick paper surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
1 Hour Nonbearing Rating On Steel Studs - Base layer boards secured with 1 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. Face layer boards secured with 1-5/8 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. When joints are aligned, screws are offset 8 in. between layers.
7. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

1 A03 — 1 HR Fire Barrier Dtl
1" = 1'-0"

Rec. Center Locker Rm Remodel

651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
LaSalle, CO 80645
303.906.2617

STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

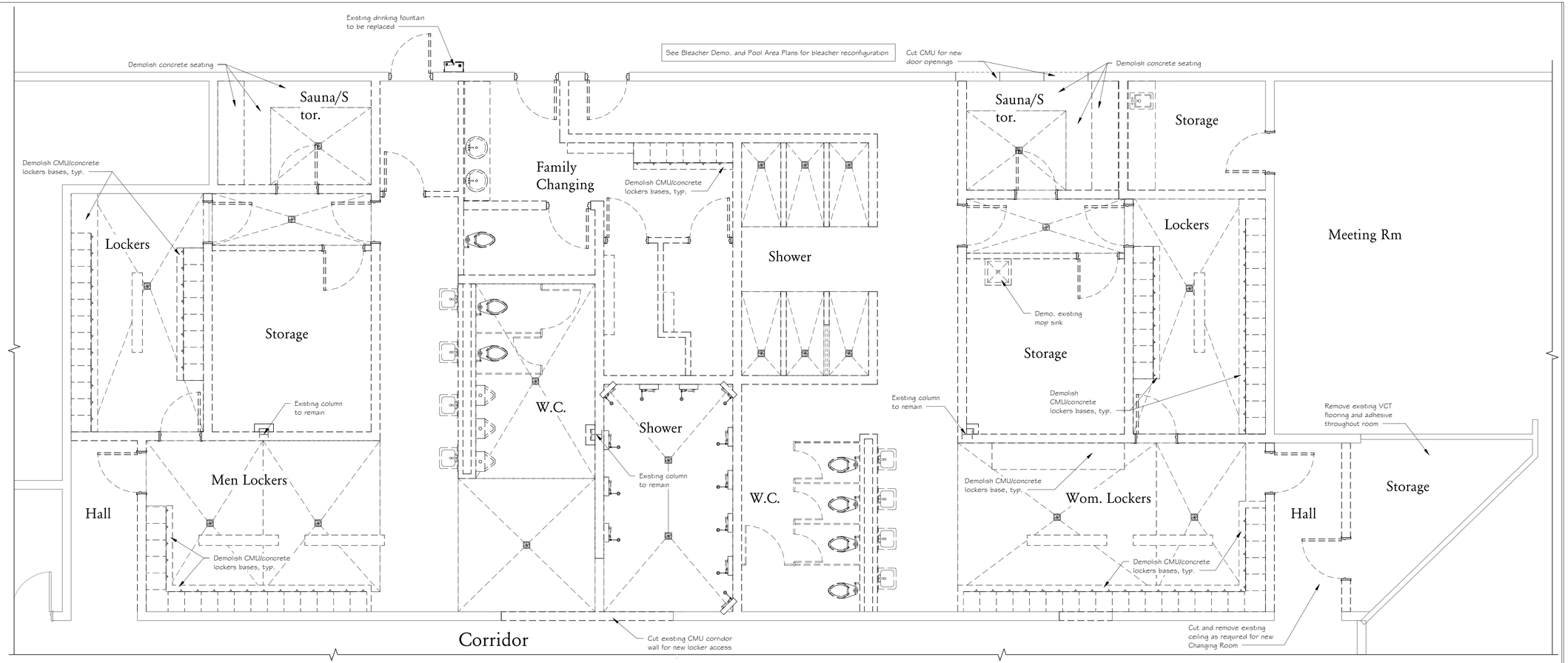
DATE
10.24.21

REVISIONS

SHEET TITLE
Fire Rated Assembly Details

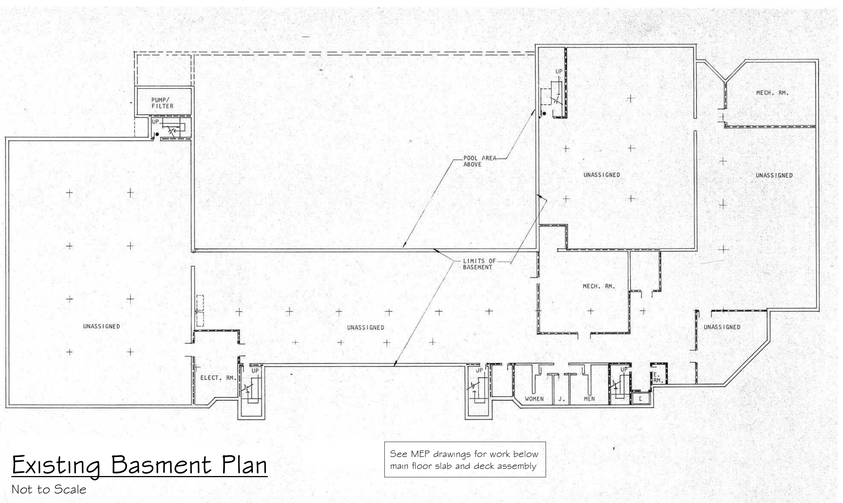
SHEET NUMBER
A03

Project No. 2102



2 A09 Main Floor Demolition Plan

1/4" = 1'-0"



Existing Basment Plan

Not to Scale

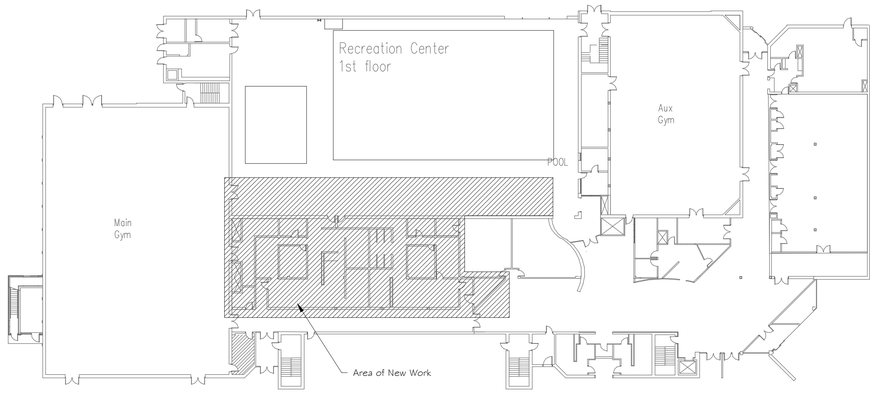
See MEP drawings for work below main floor slab and deck assembly

General Demolition Notes:

1. Since remodeling and renovation of an existing building requires that certain assumptions be made regarding existing conditions, and since some assumptions are not verifiable without selective demolition prior to construction, the Contractor shall verify questions, conditions and procedures with Architect and Engineer prior to commencement of new work.
2. Existing finishes adjacent to areas of new work to remain except as noted, protect during construction.
3. Remove existing ceiling finishes in new work areas except pool area.
4. See Mechanical, Electrical, Plumbing drawings for additional demolition items.
5. New utility work may require selective demolition of floor, wall and ceiling finishes. Patch and refinish any disturbance to existing finishes to match existing or new adjacent finishes.
6. Contractor and subcontractors are required to visit the project site to review existing conditions prior to bidding. Contractors shall be responsible for verification of all measurements in the project and no consideration will be given to changes in contract amount for dimensional differences.
7. Demolition Subcontractor shall field verify existing conditions prior to commencing Work. Any discrepancies shall be brought to the attention of the Architect prior to starting construction in area of concern. Contractor shall perform demolition in manner required to maximize efficiency of integration with required new construction and/or patching. Contractor shall remove items in a workmanship-like manner so as to insure that adjacent construction to remain shall remain intact and undamaged.
8. All demolition Work and locations identified on the demolition plans are diagrammatic in nature. Not all required demolition Work has been noted on the Drawings. The Contractor shall be responsible for the removal of all existing items required for the completion of the Work indicated in the Construction Documents or damaged as a result of the construction process.
9. Rubble, construction debris, and any contaminated or hazardous material shall be legally disposed of off-site. All material disposal cost shall be included as part of the bid items for demolition Work. The Owner does not require any items shown to be demolished, to be salvaged for re-use.
10. Contractor is responsible for identifying the presence and locations of all existing utilities in the area of the Work prior to the start of demolition and construction operations. Contractor shall preserve, intact, all utility and service lines to remain, whether noted on Drawings or otherwise.
11. Most of the interior walls shown to be demolished are concrete masonry units (CMU) on concrete (or CMU) bases. Since this project occurs on an elevated composite slab, over occupied space, exercise caution during demolition. Remove CMU and bases completely. Grind rough edges of remaining epoxy flooring smooth, to receive new finish per Finish Plan.
12. Remove and discard all lockers, benches, plumbing fixtures, light fixtures, vanities, toilet partitions, floor drains, restroom accessories, and all other items not shown to be relocated or reused.
13. Completely remove existing ceiling grid and tiles in reconfigured areas, except for Existing Storage room to be expanded.
14. In Existing Storage room where VCT is demolished, completely remove adhesive and prepare slab for new seal coat.
15. Existing speakers and speaker wire in project work area to be removed and stored for reinstallation by Owner's subcontractor.

Demolition Plan Legend

- Existing wall to remain
- Existing wall to be demolished
- Existing window to remain
- Existing window to be demolished
- Existing door to remain
- Existing door to be demolished (and sideights as applicable)
- Existing column to remain



3 A09 Demo. Main Floor Key Plan

1/32" = 1'-0"

Rec. Center Locker Rm Remodel

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LaSalle, CO 80645
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STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

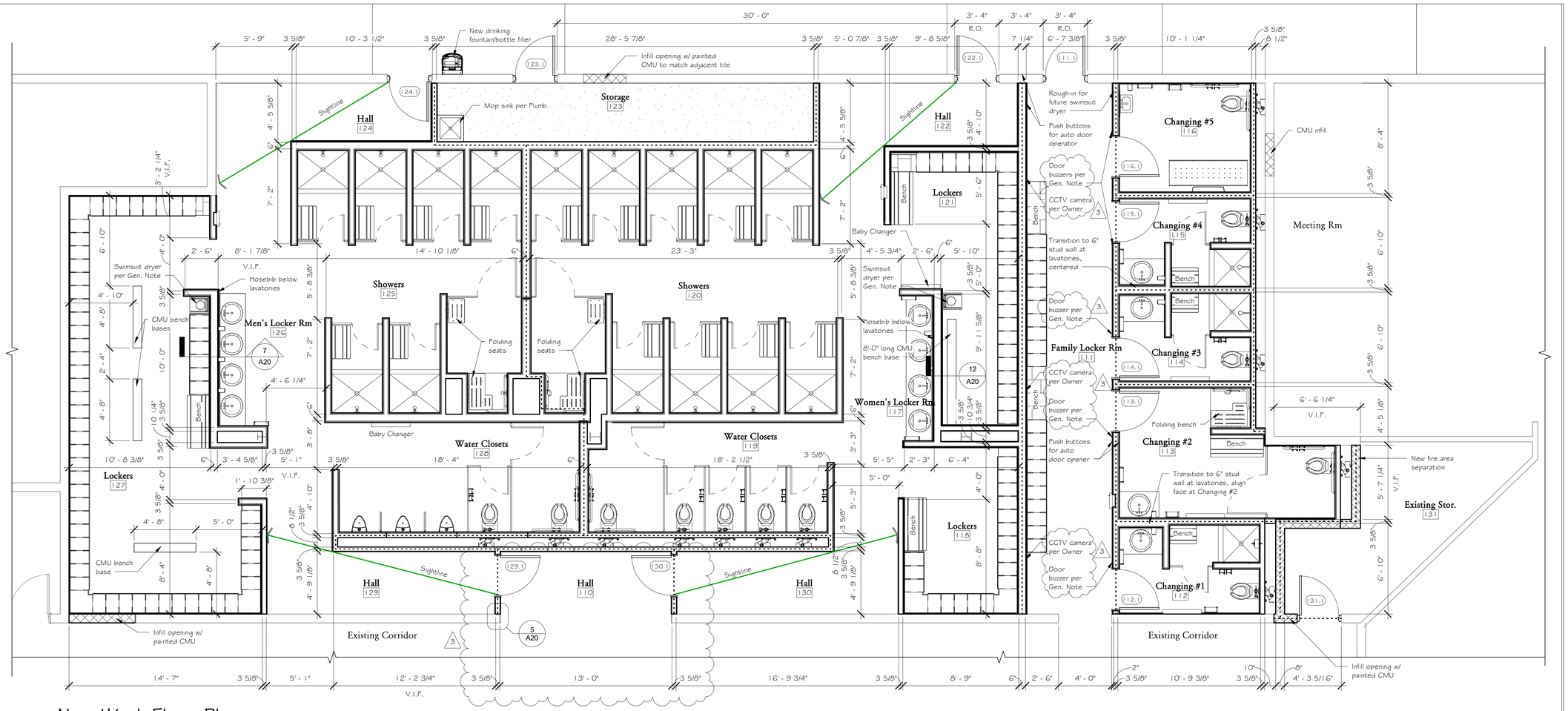
DATE
10.24.21

REVISIONS
3 - 7.10.23

SHEET TITLE
Demolition Plan

SHEET NUMBER
A09

Project No. 2102



New Work Floor Plan

2 / A10

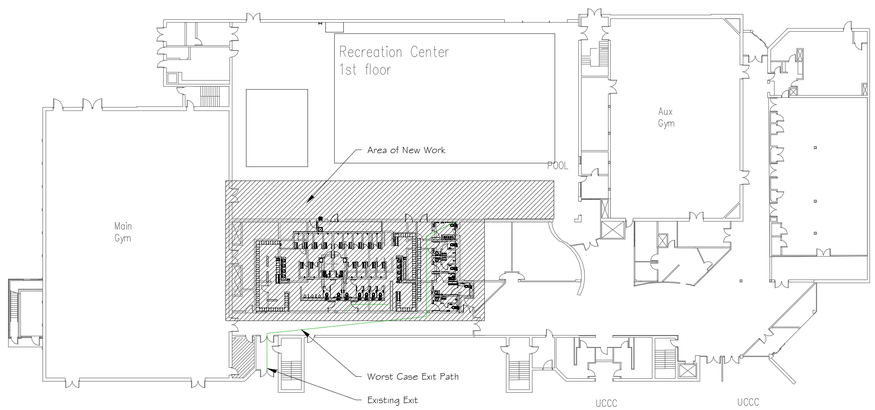
1/4" = 1'-0"

General Plan Notes:

1. Field verify all rough openings and wall widths prior to ordering windows, doors and other materials.
2. Run a continuous bead of sealant around all doors, windows and other openings and joints. Leave adjacent surfaces clean and provide backer rod where necessary.
3. Provide solid fire retardant-treated blocking or strapping in stud walls as required for accessories, fixtures, cabinets, shelves, equipment, etc. at locations indicated on Floor Plan and Enlarged Plans.
4. Dimensions at interior partitions are to face of stud or CMU.
5. Provide sound attenuation insulation at all demising partitions at full height of studs.
6. Install interior metal studs @16" o.c., min. 20 gauge or heavier as recommended by stud manufacturer for required height. Install framing at existing columns as closely as possible to columns. Frame to underside of floor deck above at fire-rated partitions and demising walls between rooms and brace per mfgr. recommendation. Install drywall full height at stud-framed fire-rated partitions and demising walls. Other stud walls may be framed with drywall finish to 6" above ceiling.
7. Fire rated wall assemblies shall be constructed to underside of floor deck above.
8. G.C. to coordinate reconfiguration of sprinkler and alarm systems by Owner's third party contractor.
9. Existing sub-floor plumbing is accessible from open basement area below. Use caution when sawcutting existing elevated slab, as existing slab is a structural composite assembly. Core-drill openings for new drains per Plumbing plans. Equipment in open basement area below to be protected during construction. See original Basement Plan, Sheet A09, for reference.
10. If a construction lift is anticipated for use on this project, G.C. is required to submit lift model and weight to Architect and Structural Engineer for approval before use.
11. See Sheets A50 thru A52 for enlarged plans and additional equipment notes.
12. Concrete Masonry Units (CMU) shall be 8" x 8" x 16" light weight units conforming to ASTM C90. Mortar shall be Type N or S, per ASTM C270-19a. Mortar joints shall be concave. Install new CMU in openings from existing hallways as shown on plan to be infilled and new fire area separation walls per Plan.
13. Contractor has option of providing 2 HR rated fire rated partition of either CMU or metal studs with drywall per Sheet A03.
14. Verify chase widths and wall layouts based on plumbing hanger depths. G.C. coordinate.
15. All wood blocking or sheathing shall be fire retardant-treated material to meet smoke development and flame spread ratings noted in Sheet A00 Code Analysis.
16. Family changing room door buzzers noted on Plan shall be provided by Owner's subcontractor, DictoGuard Security Alarm Systems, Inc., in Greeley. System shall include central control panel located at reception desk. G.C. provide conduit and j-boxes in new partitions as noted, coordinate w/ Electrical Plans.
17. Swimsuit dryers shall be provided and installed by G.C., SUITEMATE Swimsuit Water Extractor wall mounted units.
18. New CCTV cameras to be installed by Owner's subcontractor in locations shown in Family Locker Rm 111. G.C. provide conduit and j-boxes in new partitions as noted. Field verify locations with Owner prior to installation.
19. Relocated speakers to be installed by Owner's subcontractor in locations shown in Family Locker Rm 111. G.C. provide conduit and j-boxes in new partitions as noted. Field verify locations with Owner prior to installation.

New Work Legend

- Existing wall to remain
- New partition
- New partition framed to deck
- Existing window to remain
- New Window
- Existing door to remain
- New door (see sched.)



New Work Key Plan

4 / A10

1/32" = 1'-0"

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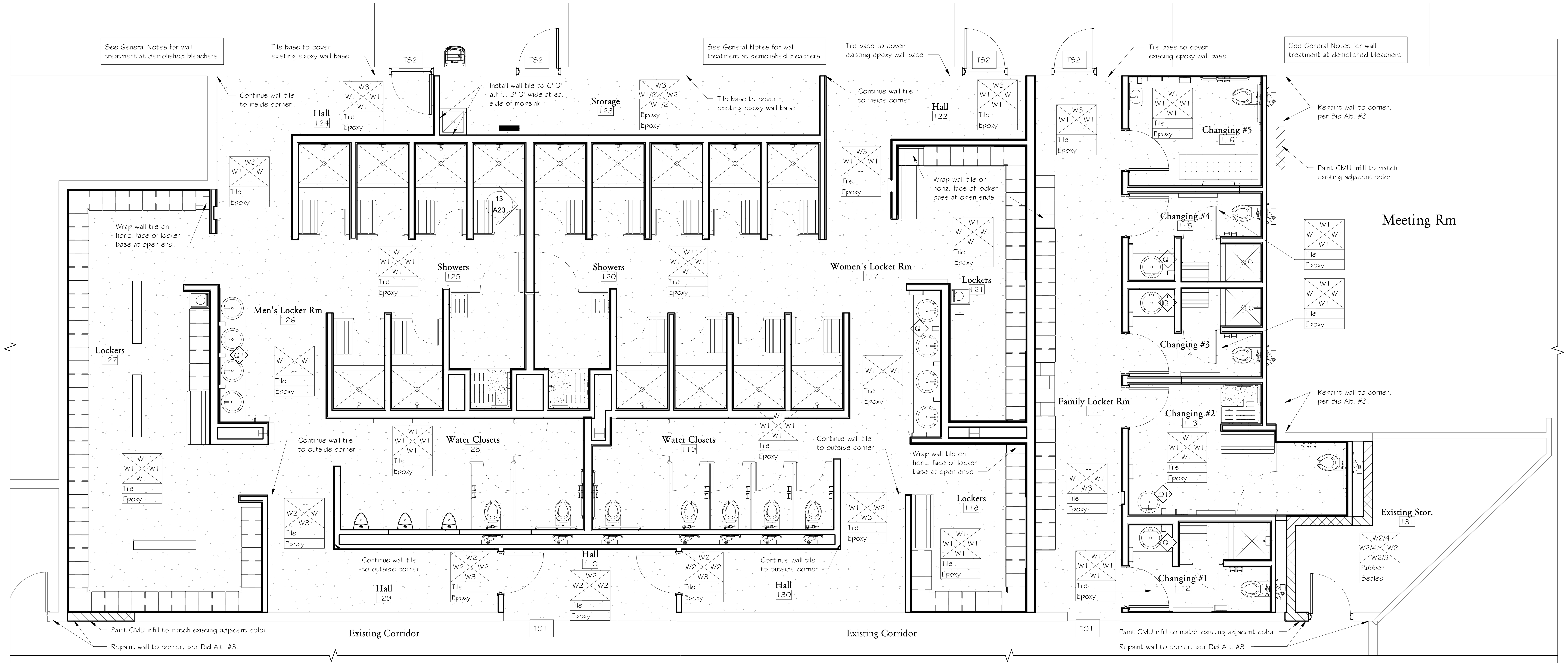
3 - 8.29.23

SHEET TITLE
New Work Floor Plan

SHEET NUMBER
A10

Project No. 2102

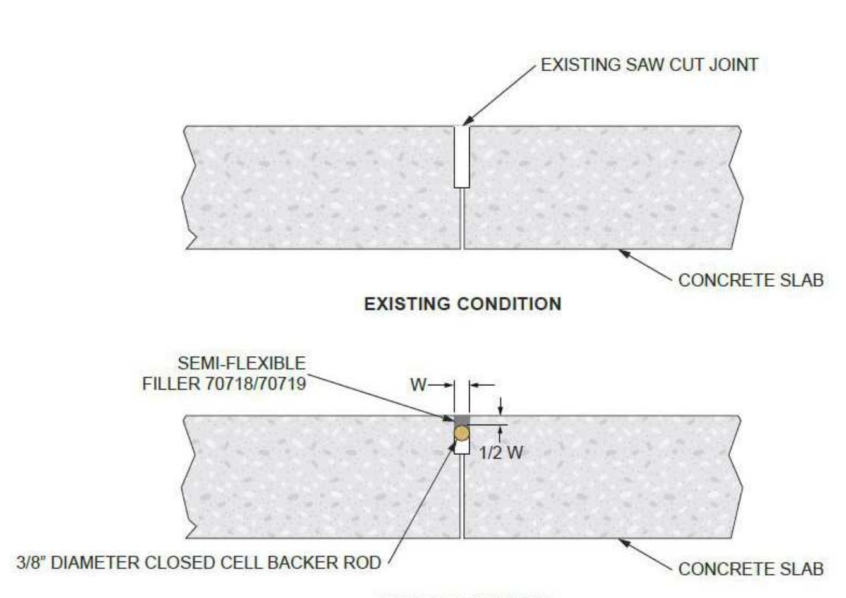


Floor/Base Finishes

1
A11

Main Floor Finish Plan

1/4" = 1'-0"



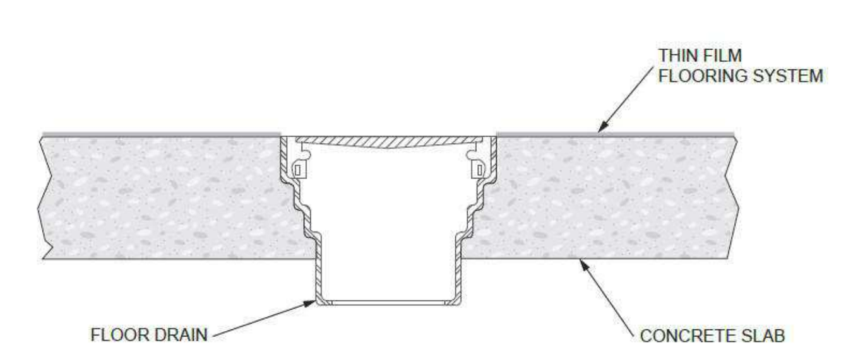
Epoxy Flooring Detail

Note: This detail is utilized in the specification and design of fluid-applied flooring, in both new and retrofit applications. It is provided to show a generally recommended procedure for dealing with the condition shown. It will not and cannot provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the detail shown or its adaptation by an experienced and conscientious applicator should result in a quality project.

NEOGARD A part of HEMPEL — 2728 Empire Central Dallas, Texas 75236 (214)-353-1600 www.neogard.com

Project: Existing Saw Cut Joint Treatment

Drawn by: K. Kirby | Scale: NTS | Date: 03/30/2020 | Drawing/Index No. FLOR_saw-cut-joint-03302020



Epoxy Flooring Detail

Note: This detail is utilized in the specification and design of fluid-applied flooring, in both new and retrofit applications. It is provided to show a generally recommended procedure for dealing with the condition shown. It will not and cannot provide a specific solution for every condition likely to be encountered in field application. Where field conditions differ, the use of applicable portions of the detail shown or its adaptation by an experienced and conscientious applicator should result in a quality project.

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Project: Thin Film Flooring Area Drain

Drawn by: K. Kirby | Scale: NTS | Date: 03/30/2020 | Drawing/Index No. FLOR_thin-film-area-drain-03302020

Coatings Notes (Sherwin Williams products):

1. Steel doors and frames leading to pool deck shall be finished with Pigmented Polyurethane System:
   - A. Prime Coat: Alkyd anti-corrosive, quick dry, S-W Pro-Cryl Universal Primer, B66-310 Series
   - B. Intermediate Coat: Polyurethane, two-component, pigmented, matching topcoat
   - C. Topcoat: Polyurethane, two-component, pigmented, gloss, S-W Hi-Solids Polyurethane 250, B65 Series.
2. Existing (pre-painted) CMU walls shall be finished with Epoxy-Modified Latex System:
   - A. First Coat: Epoxy-modified latex, interior, gloss, matching topcoat.
   - B. Topcoat: Epoxy-modified latex, interior, gloss, S-W Pro Industrial Waterbased Catalyzed Epoxy Gloss, B73-300 Series.
3. New CMU walls shall be finished with Epoxy-Modified Latex System:
   - A. Block Filler: Block filler, latex, interior/exterior, S-W Pro Industrial Heavy Duty Block Filler
   - B. Intermediate Coat: Epoxy-modified latex, interior, gloss, matching topcoat.
   - C. Topcoat: Epoxy-modified latex, interior, gloss, S-W Pro Industrial Waterbased Catalyzed Epoxy Gloss, B73-300 Series.
4. Interior framed partitions with drywall shall have Level 4 finish with no/smooth texture. Finish with:
   - A. Prime Coat: Primer sealer, latex, interior, S-W ProMar 200 Zero VOC Latex Primer, B28W2600, at 4.0 wet, 1.0 mils dry.
   - B. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.
   - C. Topcoat: Light industrial coating, interior, water based, eggshell, S-W Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45-1151 Series, at 4.0 mils wet, 1.5 mils dry, per coat.
5. Any miscellaneous metals, if not pre-finished shall be finished with Pigmented Polyurethane System:
   - A. Prime Coat: Alkyd anti-corrosive, quick dry, S-W Pro-Cryl Universal Primer, B66-310 Series. (adhesion test required on factory painted metal)
   - B. Intermediate Coat: Polyurethane, two-component, pigmented, matching topcoat.
   - C. Topcoat: Polyurethane, two-component, pigmented, gloss, S-W Hi-Solids Polyurethane 250, B65 Series.
   - D. Finish color: To be determined
6. New painted drywall finish shall be Sherwin Williams color SW7015 Repose Gray.
7. New painted ceilings shall be untinted "ceiling white" paint in eggshell sheen.
8. New CMU to be painted to match existing colors at existing areas in hallways and rooms where no other work occurs.
9. Owner and/or Architect shall select coating colors where not specified, after G.C. has provided finish color selections for verification.

3

Epoxy Flooring Notes:

1. New epoxy flooring shall be Neogard Neoflake RTS Series 1 System in "Snowfall" FB-602 color. System shall include:
   - A. Flexible epoxy crack and joint filler
   - B. Epoxy primer
   - C. Pigmented epoxy base coat
   - D. Integrally colored, random sized chips
   - E. Polyaspartic first and second seal coats
   - F. Polyaspartic Neogrip texture coat
2. Install system in Storage Rm 123 for Owner review of color and finish prior to installing in other areas.
3. Where epoxy flooring is also specified as wall base in showers, install new epoxy to cover any existing epoxy base with 1" cove radius. Install cove strip in matching color at top of base.
4. New epoxy system shall wrap up min. 4", but at least as high as existing epoxy wall base, where it occurs.
5. Continue epoxy flooring system into showers and as wall base as shown.
6. Provide Schluter KERDI-SHOWER preformed curb or similar, 4 1/2" x 6" high, at non-accessible showers, typ.
7. Provide Schluter Dilex-AHKA cove trim in 3/8" height in Dark Anthracite at typical epoxy floor and tile wall transitions.
8. G.C. coordinate new floor drain and other floor-mounted equipment installation as required for thickness of epoxy flooring system.
9. Installer shall be Neogard approved contractor with min. three (3) years experience installing Neogard flooring systems. G.C. submit installer credentials and system product data to include any accessories required for system warranty. Provide warranty documentation at completion of project.
10. See manufactuer's installation details for floor drains and existing control joints, this Sheet.

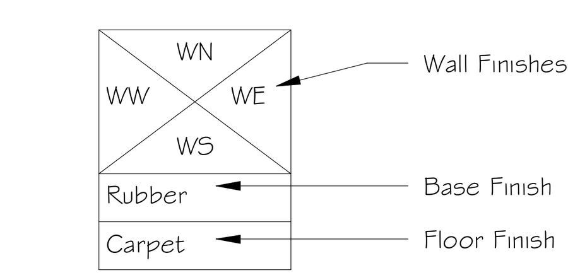
2 3

Finish Notes:

1. Electrical panels, grills, etc, on finished walls and ceilings are to be painted to match adjacent wall surfaces.
2. All interior finishes to be verified and approved by Owner prior to ordering. Provide samples of products in colors and finishes as noted.
3. Patch and fill floor openings where drains, pipes and other items have been removed. Verify that any new concrete patches have reached moisture levels in accordance with finish manufacturer's criteria prior to applying new finishes. Conduct moisture test as required prior to new finish application. Document test results to Owner.
4. See also Sheets A50 thru A52 for additional finish information.
5. Provide bead of caulk around interior door frames and where countertops meet drywall.
6. Subcontractor shall examine existing walls to receive new painted finish, and patch or repair any damage for a smooth surface and prepare to receive new coating.
7. Primary glazed porcelain wall tile and wall base (where scheduled) shall be Florida Tile Continent Series, color Delta Haze #29914 in 12x24 size. Accent tile shall be Daltile Fabric Art Linear Series in ML65 Midnight Blue, cut into 4x24 strips and located as shown on interior elevations Sheets A50 thru A52. Install primary and accent tile on face of locker bases as shown. Install with Mapei Keraflex Plus mortar. Patch and repair any cracks and holes in existing surfaces (CMU) per manufacturer's instruction prior to applying mortar. Grout shall be Mapei Kerapoxy CQ epoxy grout, or similar in color #10 Black. Provide Schluter Jolly 3/8" trim in Bright Black at exposed horizontal and vertical edges. Provide Schluter Finec 3/16" in Matte Black at outside corner transitions. Provide Schluter Dilex-eke 5/16" x 9/32" in PVC Black at inside corners. Install tile on walls as indicated this Sheet, to include walls behind lockers. Continue accent tile full height of tile assembly on walls as shown. Approximate existing ceiling height is 9'-0" above finish floor.
8. Where both wall tile finish and base tile finish are indicated, base finish shall be the continuation of wall tile to floor transition level.
9. Install wall tile on 5/8" USG Durock Cement Board with Edgeguard drywall, or sim. on vapor barrier on new stud-framed partitions.
10. Sand and power wash existing flooring per new epoxy flooring system manufacturer's requirements. Patch any holes or cracks before applying new epoxy system. Fill control and cold joints with flexible epoxy with backer rod as necessary. See Epoxy Flooring Notes, this Sheet for new flooring system specifications.
11. 4 New solid surface shower pans in accessible showers shall be Swanstone STF-3838 (38"x38") Performix alcove shower pans for transfer showers in locker rooms and accessible changing rooms, total of three (3) units. Color shall be Ice #130.
12. Install floating mortar bed over demolished floor drains, locker bases and walls, fill and patch gaps in existing flooring as required for new system installation.
13. Install 5/8" USG Sheetrock Mold Tough Panels Firecode X drywall at new ceiling applications and new wall applications for painted finish. Skim coat surface and finish per manufacturer's instructions. Provide level four (4) smooth finish.
14. Concrete floor sealer shall be Ashford Formula sealer and hardener. Install per manufacturer's instructions.
15. Rubber wall base shall be Roppe 700 Series, or sim., in 4" high coved profile, color #100 Black.
16. Vanity surfaces shall be 3cm thickness Pental Quartz, color BQ940P Vellum Polished, with eased edges.
17. Plastic Laminate finish on vanity aprons shall be Wilsonart premium laminate #5024K-19 Blackbird.
18. Provide finish material overstock of 5% of installed materials and deliver to Owner at project completion.
19. In pool area where relocating bleachers results in exposed holes in tile, fill with epoxy grout in closest color match to adjacent tile.
20. Site fabricated, wall mounted benches in locker rooms and Changing Rm #2 (113) shall have composite decking seat material, Fiberon Symmetry, Graphite color. Product is available at Home Depot.
21. Site fabricated, floor mounted benches shall have ASI Global solid phenolic seat slab, color #8450C "Smoke," on masonry base per Detail, Sheet A20.
22. Painting scope shall include entire basement ceiling in weight room below locker room (See Sheet A09), to include new piping, hangers, etc.

Finish Key

(See Mech. & Elec. drawings for additional info.)



Floor Finishes

Sealed: Sealed existing concrete
Epoxy: Colored epoxy coating

Base Finishes

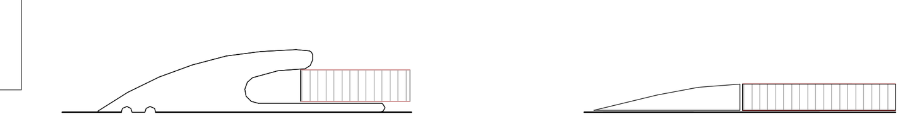
Rubber: 4" high coved
Tile: Wall tile, 4" high

Wall Finishes

W1 Tile 12x24 w/ accent
W2 Painted gyp. bd.
W3 Repaint existing CMU
W4 Painted CMU

Vanities

Q1 Quartz Color #1
P1 Plastic Laminate Color #1



TS1 - Carpet to Epoxy/Concrete Roppe Edge Guard

TS2- Epoxy to Concrete Tarkett Reducer CRS (size as req'd)

2
A11

Flooring Transitions

N.T.S.

ALL CONSTRUCTION SHALL CONFORM TO CURRENT INTERNATIONAL BUILDING CODE AND AND ALL OTHER APPLICABLE CODES.

DO NOT SCALE DRAWINGS FOR DIMENSIONS.

Rec. Center Locker Rm Remodel

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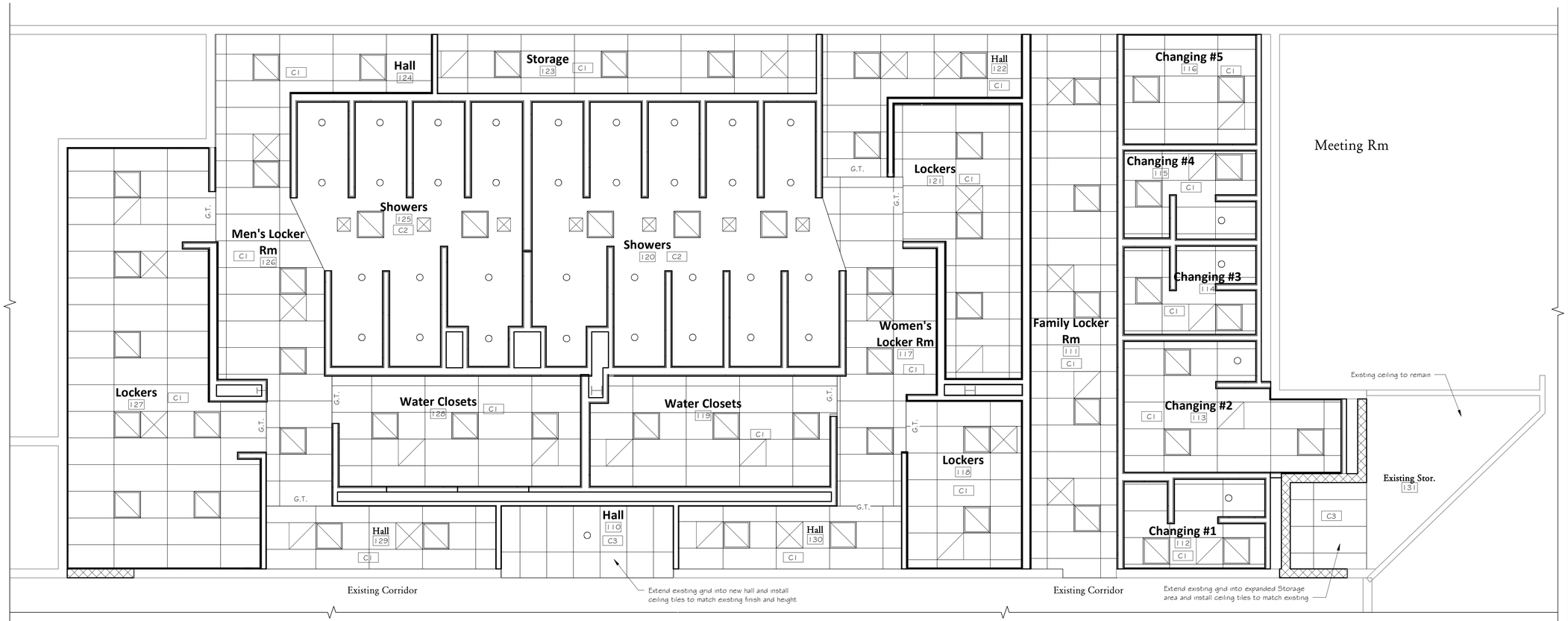
10.24.21

REVISIONS
2 - 2.14.22
3 - 8.29.23

SHEET TITLE
Finish Plan

SHEET NUMBER
A11

Project No. 2102



Reflected Clg Plan

1/4" = 1'-0"

Ceiling Finish Legend:

C1	2'x4' Suspended Acoustical Tile (SAT) grid and tile system
C2	5/8" moisture-resistant gyp. bd. on suspended track, painted
C3	2'x4' Suspended Acoustical Tile (SAT) grid and tile system to match existing in finish, color and direction

Ceiling Notes:

1. Remove existing ceiling finishes in new work areas except pool area.
2. New ceiling heights shall match existing.
3. Suspended Acoustical Tile (SAT) ceilings shall be Armstrong Mesa Second Look 2'x4' white tiles, with HumiGuard sag resistance and 15/16" angled tegular edge profile. Suspension system shall be Armstrong 15/16" Prelude profile in white finish.
4. Drywall ceilings shall be installed with Armstrong or USG Drywall Suspension System for flat ceilings. Main beams and cross tees shall be 1 1/2" units in white. Provide moldings and accessories as required for complete system. Install with hanger spacing as recommended by mfgr.
5. See corresponding Mechanical, Plumbing and Electrical drawings for additional info.
6. Provide SAT grid transition (G.T.) as shown so that light fixtures are centered in space.

Rec. Center Locker Rm Remodel

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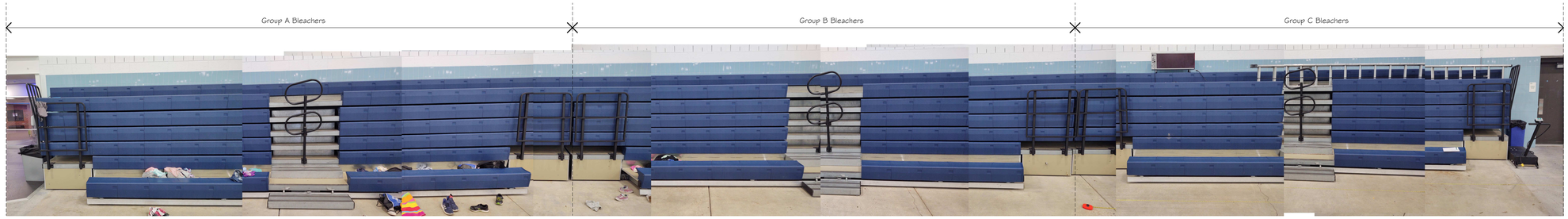
REVISIONS

SHEET TITLE
Reflected Ceiling Plan

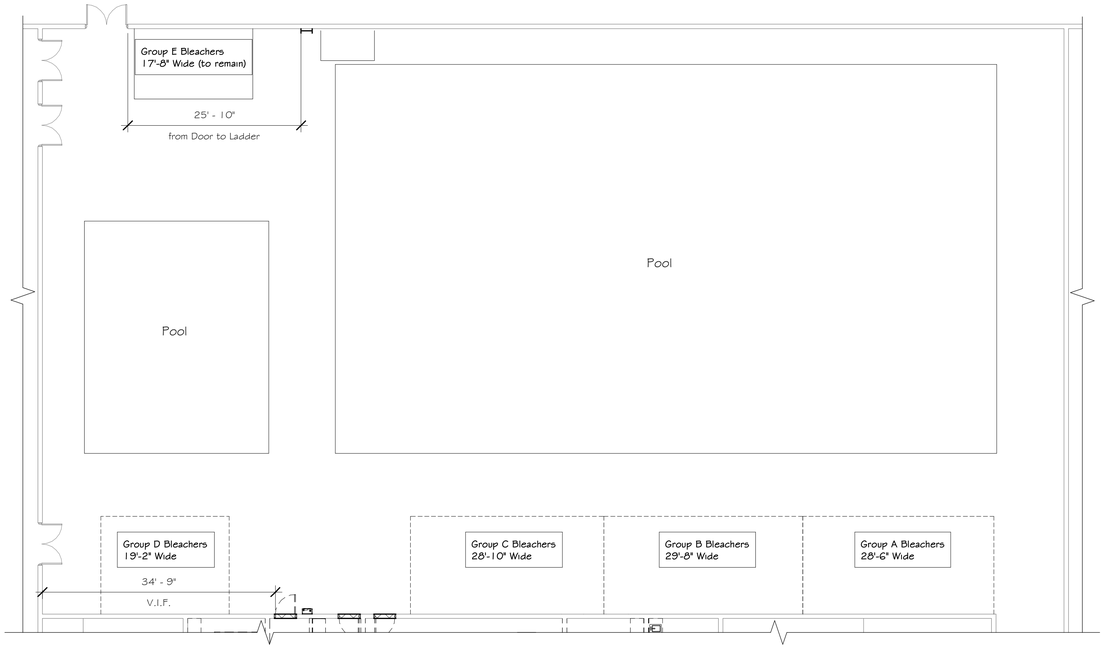
SHEET NUMBER
A12

Project No. 2102



1/A13 Bleacher Key

1/8" = 1'-0"

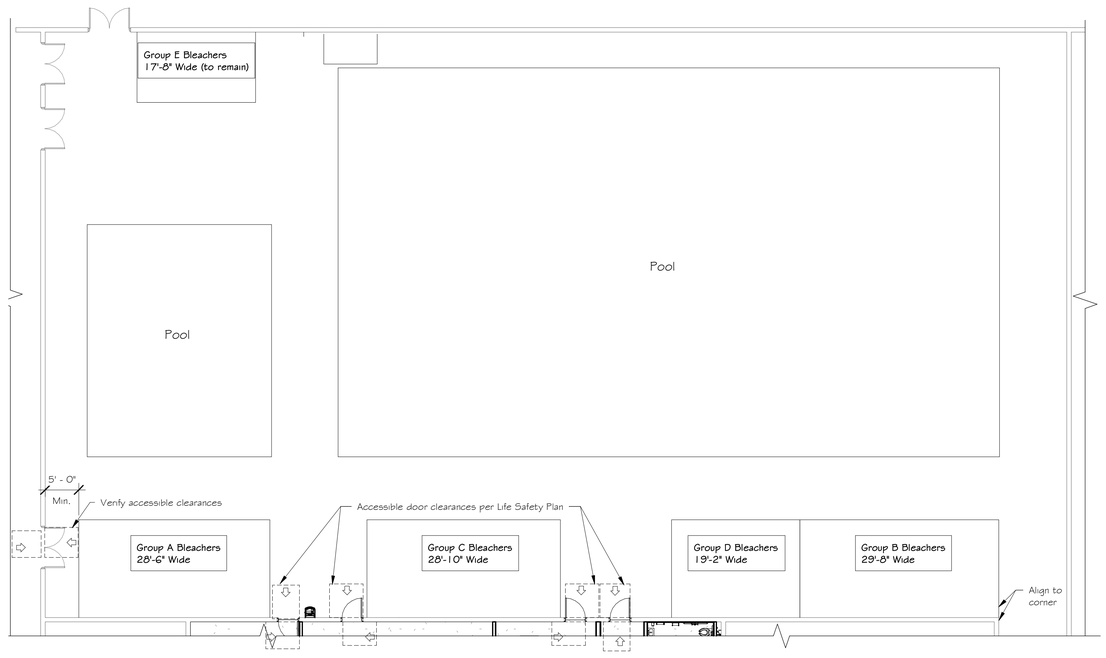


2/A13 Bleacher Demo Plan

3/32" = 1'-0"

General Notes:

1. G.C. and/or bleacher subcontractor field verify sizes and distances prior to starting work.
2. Cut upper rows of seating as required to separate Bleacher Groups A thru D. Cut seating as required to meet clearances as shown on plan.
3. Add guardrail sections, end panels and support hardware at open ends of separated bleacher sections.
4. Provide new wall fasteners as required.
5. Patch holes in CMU wall from previous bleacher wall anchors where relocated.



3/A13 Bleacher Relocation Plan

3/32" = 1'-0"

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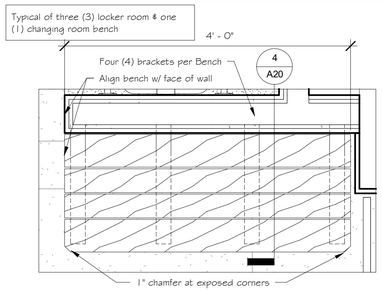
SHEET TITLE
Pool Area & Bleacher Plans

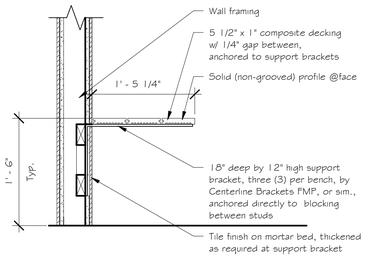
SHEET NUMBER
A13

Project No. 2102



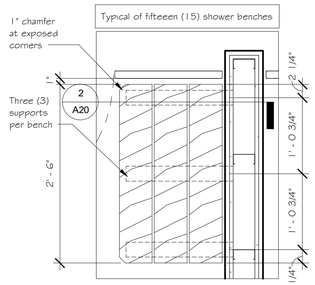
3 A20 — Typical Accessible Bench Plan Dtl

1" = 1'-0"



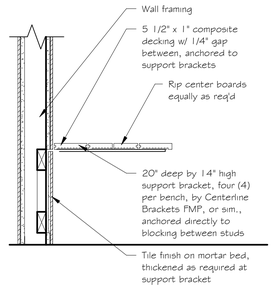
2 A20 — Typical Bench Section Dtl

1" = 1'-0"



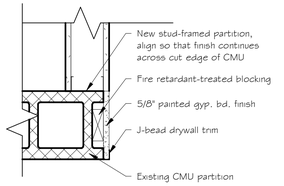
1 A20 — Typical Bench Plan Dtl

1" = 1'-0"



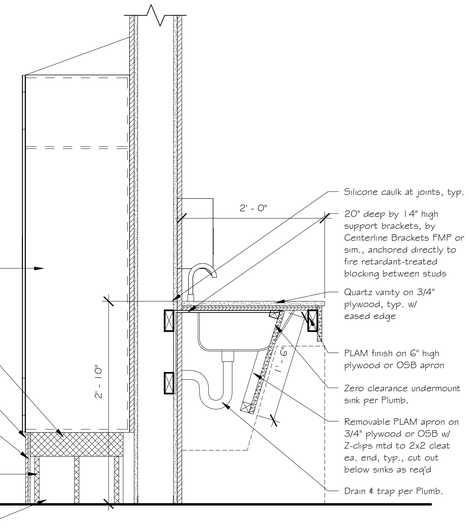
4 A20 — Accessible Bench Section Dtl

1" = 1'-0"



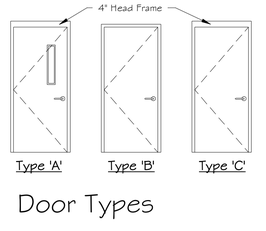
5 A20 — Finish Transition Plan Dtl

1 1/2" = 1'-0"

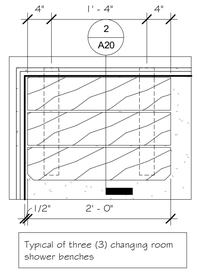


7 A20 — Section @Vanity & Locker

1" = 1'-0"



Door Types



6 A20 — Changing Rm Bench Plan Dtl

1" = 1'-0"

Door Schedule

I.D.	Type	Width	Height	Thickness	Door Material	Door Finish	Glazing	Frame Material	Frame Finish	Hardware Set	Fire Rating	Comments
111.1	A	3' - 0"	7' - 0"	1 3/4"	Steel	Painted	Tempered	Steel	Painted	05	90 min.	
112.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	02	45 min.	
113.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	06	45 min.	
114.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	02	45 min.	
115.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	02	45 min.	
116.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	02	45 min.	
122.1	A	3' - 0"	7' - 0"	1 3/4"	Steel	Painted	Tempered	Steel	Painted	01	90 min.	
123.1	C	3' - 0"	7' - 0"	1 3/4"	Steel	Painted	Tempered	Steel	Painted	04	90 min.	
124.1	A	3' - 0"	7' - 0"	1 3/4"	Steel	Painted	Tempered	Steel	Painted	01	90 min.	
129.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	03	45 min.	
130.1	B	3' - 0"	7' - 0"	1 3/4"	Wood	Prefinished		Steel	Painted	03	45 min.	
131.1	C	3' - 0"	7' - 0"	1 3/4"	Steel	Prefinished	Tempered	Steel	Painted	04	90 min.	

General Door & Frame Notes:

1. Field verify all rough openings and wall widths prior to ordering doors and hardware.
2. Door suppliers shall be responsible for bidding & supplying tempered and and fire-rated units as required by code, including but not limited to those scheduled and/or illustrated.
3. All egress doors to be operable from inside without the use of a key or special knowledge or effort.
4. See New Work Plan for wall thicknesses and frame throat widths, G.C. coordinate.
5. Rough openings measured from inside face of framing, typ.
6. New steel door frames shall be minimum 16 ga. for interior applications with fully welded construction. Provide Ceco "SU" steel frames with anchors as required for wall construction indicated on New Work. Prime and paint frames.
7. Steel door frames leading to pool area shall be Ceco "SQ" steel frames with factory-applied A60 galvannealed ('A') zinc coating to receive rust inhibitor painted finish per Finish Plan, Sheet A12.
8. Provide fire rated doors, frames and hardware as scheduled. Fire-rated glazing in fire-rated doors shall be SuperLite X-45 or X-90 as manufactured by SaftiFirst, or sim., clear non-wired glazing for temperature rise doors. Vision lites shall have maximum 100 sq. in. glass area.
9. Interior wood doors shall be solid core, 5-ply wood veneer, flush style, as provided by VT Industries, Heritage Collection VT-5, or sim., in Red Oak. Finish shall be Alpine AL18 with factory finish. Provide samples of finish colors for selection by Architect and Owner. Provide doors with fire core and fire rating as scheduled.
10. Interior metal doors to pool deck shall be Ceco Medallion steel-stiffened doors, 16 ga., with fully welded construction in profiles indicated with standard glazing trim. Doors shall be factory primed with A60 galvannealed zinc coating to receive painted finish. Provide either pre-manufactured lite kits or Ceco standard glazing trim (flush) 4884, or sim..

Hardware General Notes:

1. Hardware finish shall be US26D Satin Chrome for interior application, and US32D Stainless Steel for doors leading to pool area.
2. Provide three (3) hinges for swing doors 4 1/2" x 4 1/2" heavy duty ball bearing, Ives 5BB1HW or sim..
3. Lever latchsets shall be Grade 1 cylindrical locks for interior application, Schlage ND Series or sim., with Rhodes (RHO) lever trim.
4. Lockset for Changing Room #2, Door 113.1 shall be Schlage L9453 Series with L583-363 ADA thumbturn and "occupied" "unoccupied" indicator, and DM deadbolt monitor feature.
5. Deadbolts for Family Area Changing Rooms in Group 02 shall be Schlage B500 Series, single cylinder deadbolt with B571 function with thumbturn and indicator.
6. Deadbolts for doors to pool area in Group 01 shall be Schlage B600 Series with B664 single cylinder function, keyed on pool side of door.
7. Lockset for pool access Door 111.1 shall be Schlage L9465 with DM deadbolt monitor feature and 06 Lever trim.
8. Provide Schlage 6-pin interchangeable cores. Keying shall be as directed by Owner to match keying in building.
9. Install adjustable closers on interior side of doors as scheduled, with heavy duty arms for parallel applications. Provide closers with stop function to limit swing to either 90 degree or 170 degree opening based on location. Closers shall be LCN 4040XP series for non-automatic operation, or sim.. Hold open feature not permitted on fire-rated doors.
10. For doors that require automatic operation, provide LCN 4631-TBWMS x 120 VAC surface closers and compatible accessories. Wall actuators shall be LCN 8310-853T devices in flush mounted boxes in new partitions or surface mounted boxes in existing CMU partitions. See plans for proposed locations, two (2) per door. Field verify actuator locations with Owner prior to installation. Provide electric strikes for doors scheduled to receive automatic operators. Strikes shall be Von Duprin #6216 FSE devices in compatible voltage.
11. Where overhead stops are specified in conjuntion with closers, provide Glynn-Johnson 1005 units.
12. Exit devices shall be Von Duprin 98-RIM-F Series fire-rated rim devices with TLX996L turn lever function. Install exit devices with lever handle style 06 (default) on opposite side with deadbolt cylinder. Provide devices with "EL" electric latch retraction and "EPT" electric power transfer where auto operators are scheduled.
13. Provide silicone gasketing, Zero 1885 adhesive style, or sim., where scheduled.
14. Kickplates shall be Ives 8400 series, or sim..
15.

Hardware Sets

Group 01 (Doors 122.1, 124.1) Pool Access
3 ea Hinges
1 ea Latchset F75 Function
1 ea Deadbolt
1 ea Cylinder
1 ea Closer w/ overhead stop
1 ea Threshold
1 ea Kickplate
1 ea Gasketing

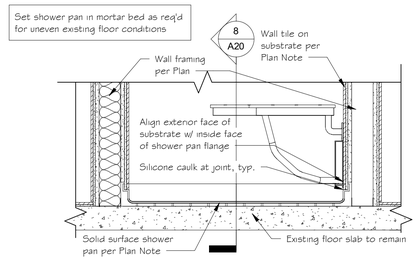
Group 02 (Doors 112.1, 114.1, 115.1, 116.1) Changing Rooms
3 ea Hinges
1 ea Latchset F75 Function
1 ea Electric strike
1 ea Deadbolt w/ indicator
1 ea Closer w/ overhead stop
1 ea Kickplate
1 ea Gasketing

Group 03 (Door 129.1, 130.1) Locker Exit
3 ea Hinges
1 ea Ext Device w/ lever function
1 ea Cylinder
1 ea Closer w/ overhead stop
1 ea Kickplate
1 ea Gasketing

Group 04 (Door 123.1, 131.1) Storage
3 ea Hinges
1 ea Lockset F74 Function
1 ea Cylinder
1 ea Closer w/ overhead stop
1 ea Kickplate
1 ea Gasketing

Group 05 (Door 111.1) Pool Auto Opening, 90 Min. Rated
3 ea Hinges
1 ea Latchset w/ deadbolt
1 ea Cylinder
1 ea Electric strike
1 ea Closer w/ auto opener
2 ea Actuator, wall mtd
1 ea Overhead stop
1 ea Kickplate
1 ea Gasketing
1 ea Power transfer
1 ea Power supply

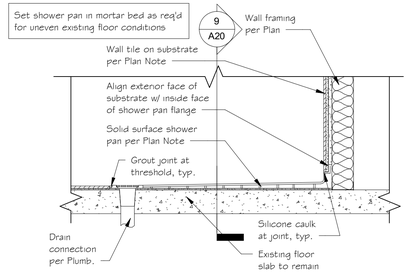
Group 06 (Doors 113.1) Changing Auto Opening
3 ea Hinges
1 ea Latchset F75 Function
1 ea Deadbolt w/ indicator
1 ea Electric strike
1 ea Cylinder
1 ea Mortise lock w/ indicator
1 ea Closer w/ auto opener
2 ea Actuator, wall mtd
1 ea Kickplate
1 ea Gasketing
1 ea Power transfer
1 ea Power supply



9 A20 — Access. Shower Side Section

4

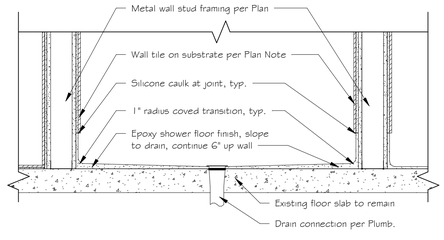
1" = 1'-0"



8 A20 — Access. Shower Section Dtl

4

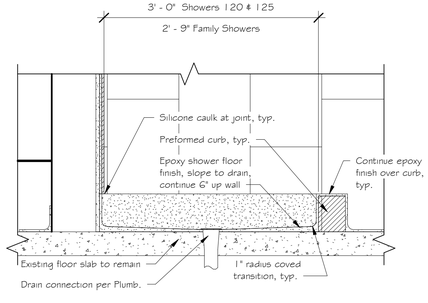
1" = 1'-0"



10 A20 — Typ. Shower Base Section

3

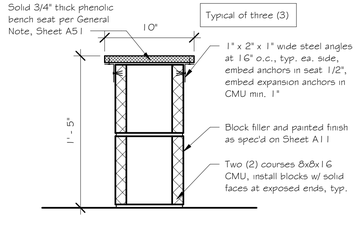
1" = 1'-0"



13 A20 — Typ. Shower Curb Dtl

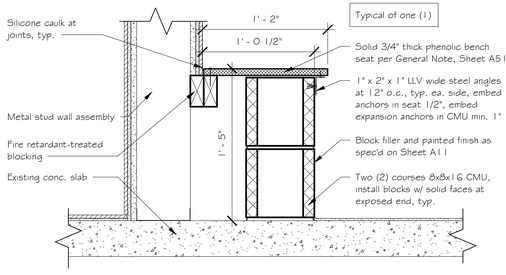
3

1" = 1'-0"



11 A20 — Floor Mtd Bench Dtl

1 1/2" = 1'-0"



12 A20 — Locker 121 Bench Dtl

1 1/2" = 1'-0"

Rec. Center Locker Rm Remodel

651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
LaSalle, CO 80645
303.906.2617

STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

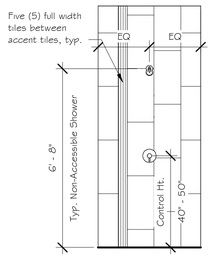
DATE
10.24.21

REVISIONS
3 - 8.29.23
4 - 9.11.23

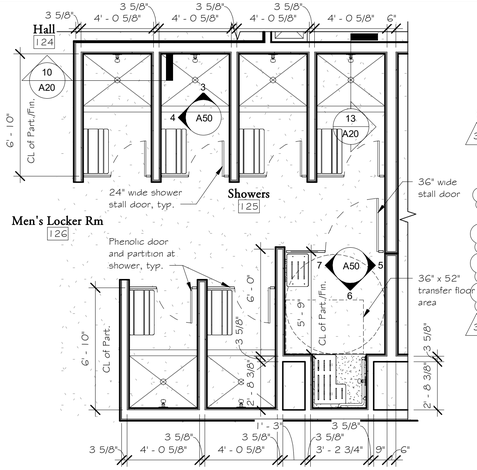
SHEET TITLE
Schedules & Details

SHEET NUMBER
A20

Project No. 2102



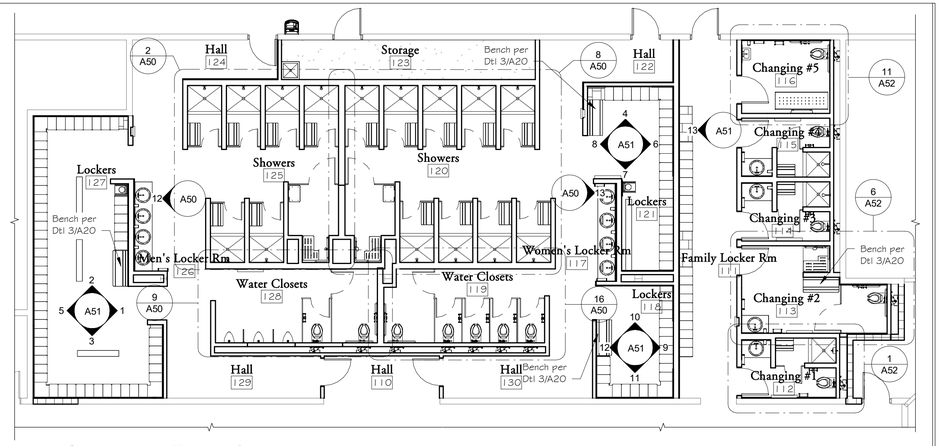
3 A50 Shower Control Wall Elev.
3/8" = 1'-0"



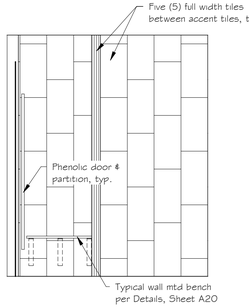
2 A50 Shower 125 Enlarged Plan
1/4" = 1'-0"

General Notes:

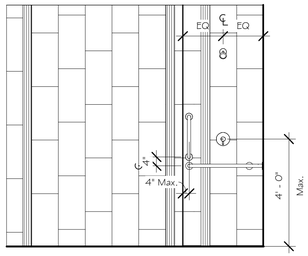
1. Fixture & accessories locations are from inside face of finish, G.C. coordinate.
2. See Finish Plans for additional material and color selections.
3. Provide continuous 2x continuous fire retardant-treated blocking or strapping for mounting countertops and accessories as required.
4. Field verify all dimensions prior to millwork fabrication.
5. Exposed, framed support fins and vanity aprons shall be plastic laminate-finished.
6. Verify size of any Owner-provided equipment prior to fabrication of millwork.
7. Toilet and shower partitions shall be floor mounted, overhead braced, solid phenolic partitions, as manufactured by ASI Global Partitions, Color-Thru series with "Ultimate Privacy" design system. Door and panel height shall be 58" with 12" floor clearance. Finish color shall be #2000C Black. All hardware, trim shoes and fasteners shall be stainless steel. Hinges shall be continuous stainless steel. Provide clothes hooks at inside of each shower and restroom door, projecting no more than 1 1/8" from face of door. Doors shall lock by sliding door latch into latch keeper. Product shall include manufacturer's standard twenty-five (25) year warranty.
8. Urinal screens shall be wall mounted, solid phenolic, as manufactured by ASI Global Partitions, Color-Thru series. Partition height shall be 48" and extend at least 18" from wall in depth. Finish color shall be #2000C Black with stainless steel anchor brackets.
9. The following surface mounted accessories indicated on Drawings shall be provided by Owner, installed by G.C.:
   - ~~A. Paper towel dispenser;~~
   - B. Toilet tissue dispenser;
   - C. Soap dispenser;
   - D. Trash cans.
10. The following accessories indicated on Drawings shall be provided and installed by G.C.:
    - A. Frameless mirrors, sizes noted on Interior Elevations;
    - B. Electric hand dryers, Bobrick B-7128, eight (8) units (incl. two at Women's 117 vanity);
    - C. Bobrick Washroom Equip. grab bars B-5806 Series
      - a. 42" long = four (4) units
      - b. 36" long = four (4) units
      - c. 18" long = three (3) units in showers, four (4) units at water closets
      - d. Corner shower grab bar, B-6861 Series, three (3) units
    - D. Folding shower seat for accessible showers, Bobrick B5181 in right- or left-handed configuration as shown on Plan, three (3) units;
    - E. Folding seat for dressing areas adjacent to accessible shower, Bobrick B5193, two (2) units;
    - F. Baby changer, Koala Kare KB110-SSWM, stainless steel, surface mounted, six (6) units;
    - G. Child seat, Koala Kare KB102, Grey01, five (5) units.
11. Frameless mirrors shall be Scargard surface protected mirrors as manufactured by Trulite Glass & Aluminum, or similar. Set in CRL deep nose aluminum 3/8" J-channel base in satin anodized finish, and glue to wall surface with Gunther Ultra/Bond mirror mastic or similar..
12. Shower heads shall be centered on wall. Shower drains shall be centered in shower pan. See also Plumbing Drawings for other floor drain locations and future specifications.
13. See Sheet A02 for additional accessibility information and details.



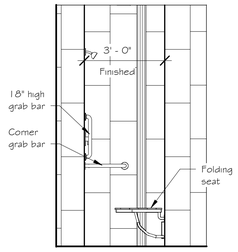
1 A50 Enlarged Plan Key
1/8" = 1'-0"



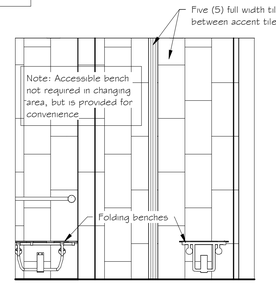
4 A50 Typ. Shower Wall Elev.
3/8" = 1'-0"



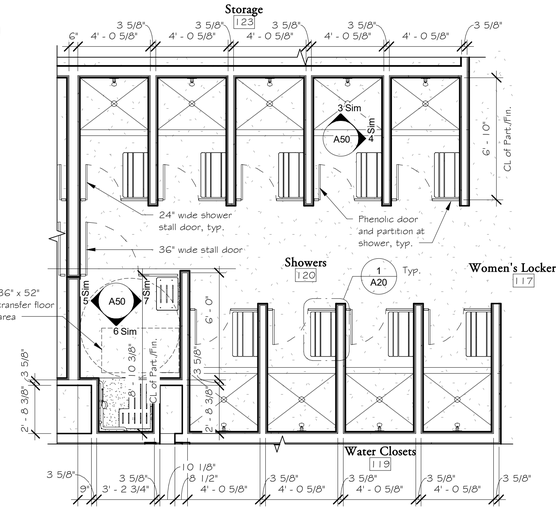
5 A50 Accessible Shower Control Elev
3/8" = 1'-0"



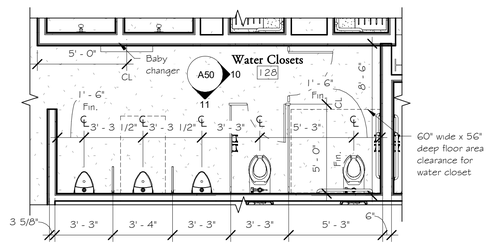
6 A50 Accessible Shower Elev
3/8" = 1'-0"



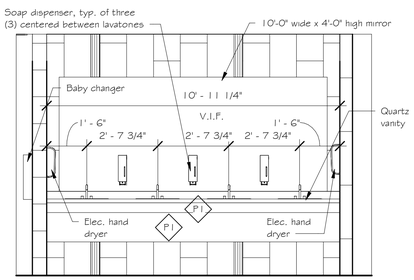
7 A50 Accessible Shower Bench Elev
3/8" = 1'-0"



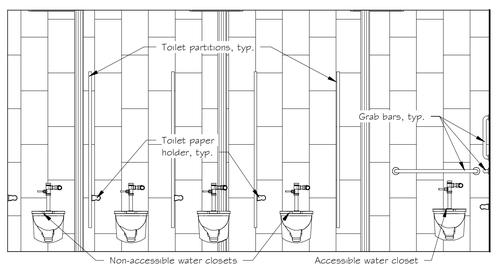
8 A50 Shower 120 Enlarged Plan
1/4" = 1'-0"



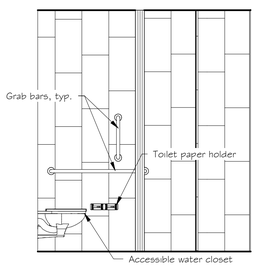
9 A50 Water Clos. 128 Enlarged Plan
1/4" = 1'-0"



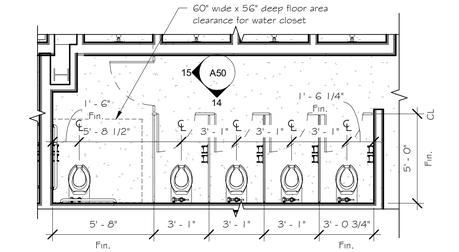
13 A50 Women's Locker 117 East Elev.
3/8" = 1'-0"



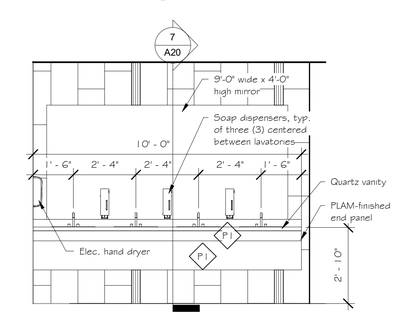
14 A50 Water Clos. 119 South Elev.
3/8" = 1'-0"



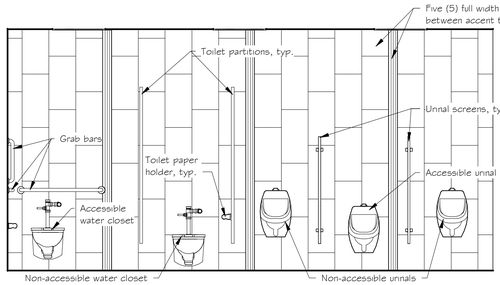
15 A50 Water Clos. 119 West Elev.
3/8" = 1'-0"



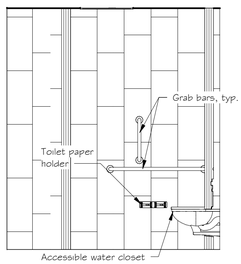
16 A50 Water Clos. 119 Enlarged Plan
1/4" = 1'-0"



12 A50 Men's Locker 126 West Elev.
3/8" = 1'-0"



11 A50 Water Clos. 128 South Elev.
3/8" = 1'-0"



10 A50 Water Clos. 128 East Elev.
3/8" = 1'-0"

Rec. Center Locker Rm Remodel

651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
LaSalle, CO 80645
303.906.2617

STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

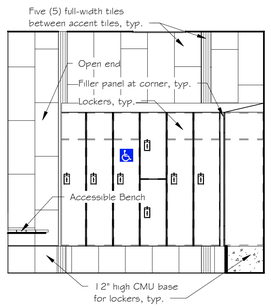
DATE
10.24.21

REVISIONS
2 - 2.14.22
3 - 8.29.23

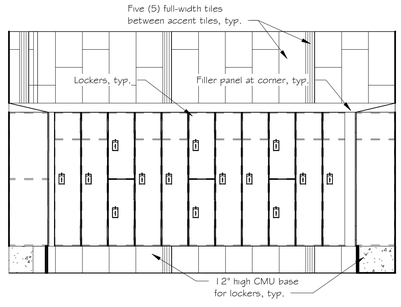
SHEET TITLE
Shower & Restroom Plans & Details

SHEET NUMBER
A50

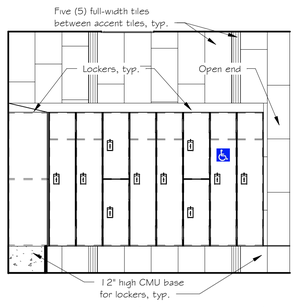
Project No. 2102



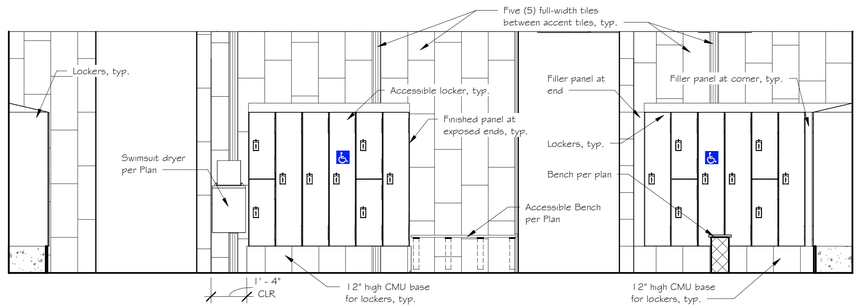
4 / A5.1 Locker 121 North Elev.
3/8" = 1'-0"



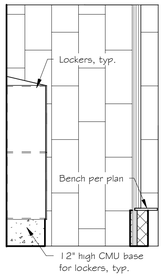
3 / A5.1 Locker 127 South Elev.
3/8" = 1'-0"



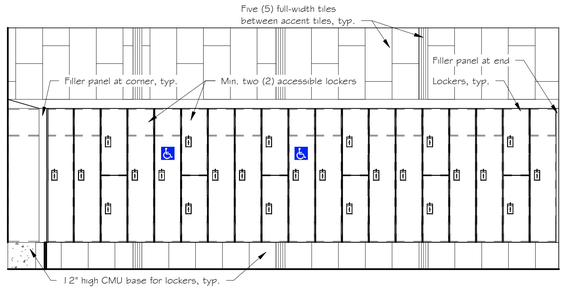
2 / A5.1 Locker 127 North Elev.
3/8" = 1'-0"



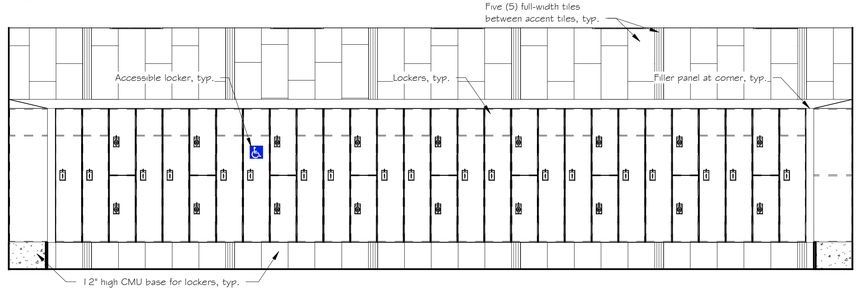
1 / A5.1 Locker 127 East Elev.
3/8" = 1'-0"



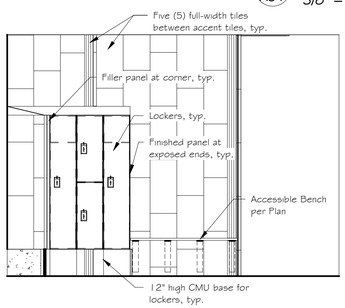
7 / A5.1 Locker 121 South Elev.
3/8" = 1'-0"



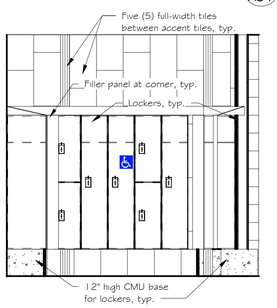
6 / A5.1 Locker 121 East Elev.
3/8" = 1'-0"



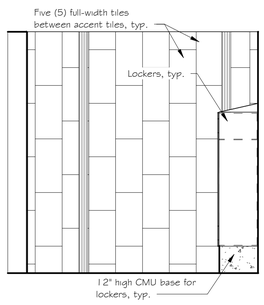
5 / A5.1 Locker 127 West Elev.
3/8" = 1'-0"



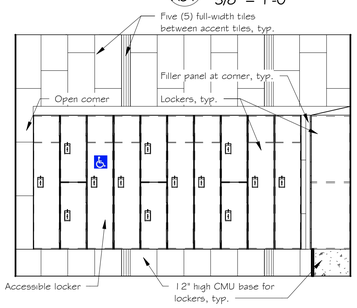
12 / A5.1 Locker 118 West Elev.
3/8" = 1'-0"



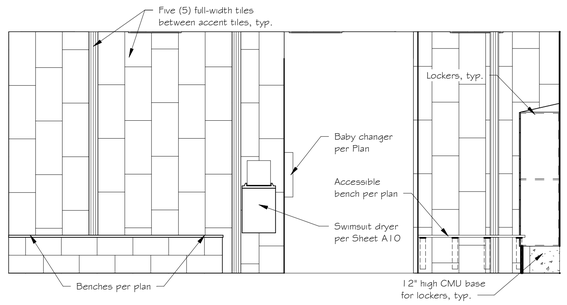
11 / A5.1 Locker 118 South Elev.
3/8" = 1'-0"



10 / A5.1 Locker 118 North Elev.
3/8" = 1'-0"



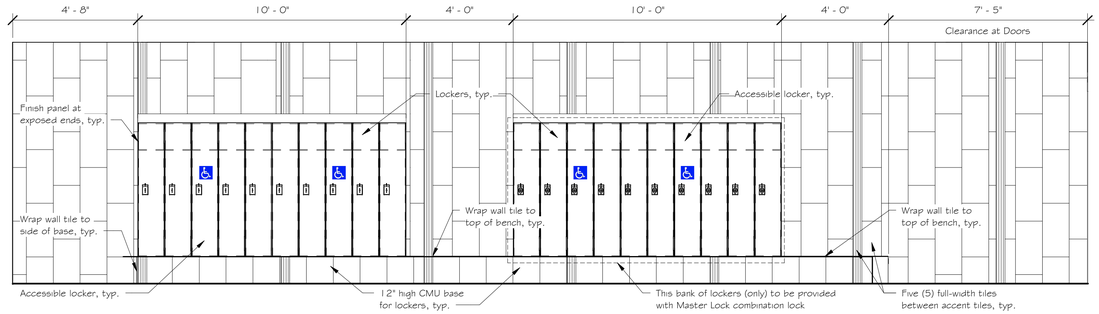
9 / A5.1 Locker 118 East Elev.
3/8" = 1'-0"



8 / A5.1 Locker 121 West Elev.
3/8" = 1'-0"

General Notes:

1. Lockers indicated on plan shall be A51 Storage Solutions Phenolic Traditional Collection. Provide units 12" wide x 18" deep x 60" high single and double tier units as shown, constructed of 3/8" thick body panels and 1/2" thick doors. Each locker in Locker shall have swing-limit five-knuckle hinges, full perimeter ventilation, recessed handle and lock hasp, a number plate, shelf, and one hook on each interior side. Lockers shall have sloping tops. North bank of Lockers in Family Locker 111 shall be provided with Master Lock Series 3630/3631/3670 combination lock in lieu of the lock hasp. All other lockers shall include lock hasp. Provide manufacturer's standard color-matched end panels at exposed ends, and filler panels at corner and wall locations as shown. G.C. field verify finished room sizes prior to ordering. Provide accessible lockers with accessibility signage as shown. Product shall include manufacturer's standard ten (10) year warranty. Install per manufacturer's instructions. Field measure and verify quantity prior to ordering. Finish color shall be 9842 Weathered Ash.
2. Floor mounted benches shown in center floor area shall have A51 Storage Solutions 3/4" black core phenolic seat slabs, 10" wide. Bench color shall be #8450 Smoke. See Sheet A20 for floor mounted bench details with CMU bases, two conditions. Provide floor mounted benches in the following sizes and locations as shown on Plans:
   A. Three (3) benches at 10' wide x 60" in length in Men's Locker 127
   B. One (1) bench at 14" wide x 96" in length in Women's Locker 121



13 / A5.1 Family Locker 111 West Elev.
3/8" = 1'-0"

Rec. Center Locker Rm Remodel

651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
LaSalle, CO 80645
303.906.2617

STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

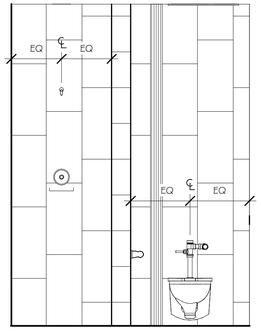
DATE
10.24.21

REVISIONS
2 - 2.14.22

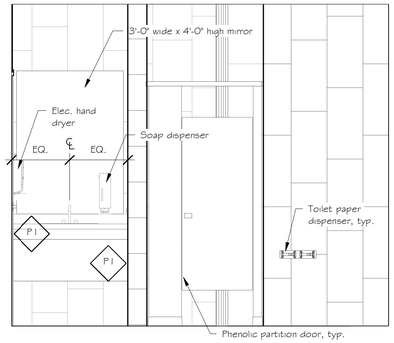
SHEET TITLE
Locker Room Elevations

SHEET NUMBER
A51

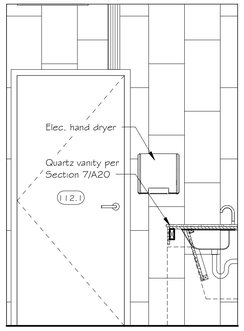
Project No. 2102



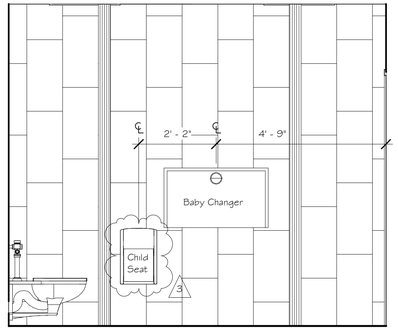
5 A52 Changing #1 East Elev.
1/2" = 1'-0"



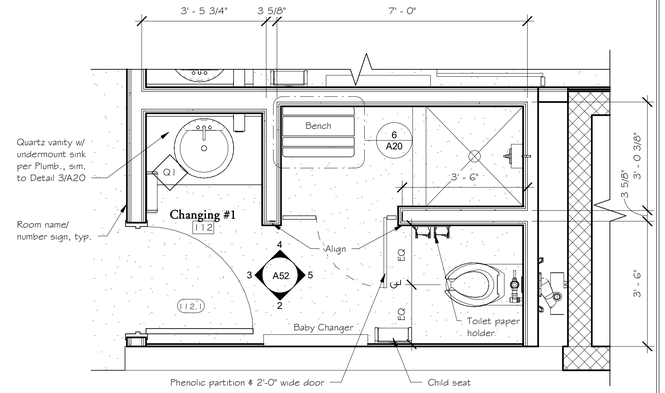
4 A52 Changing #1 North Elev.
1/2" = 1'-0"



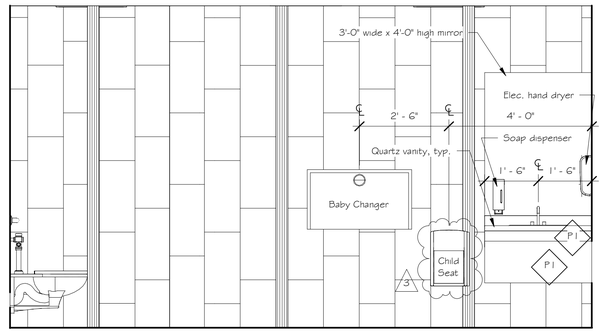
3 A52 Changing #1 West Elev.
1/2" = 1'-0"



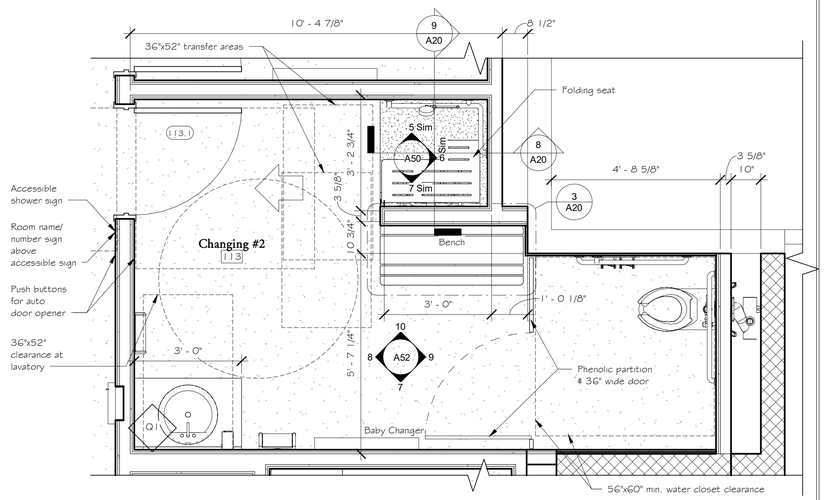
2 A52 Changing #1 South Elev.
1/2" = 1'-0"



1 A52 Changing #1 Enlarged Plan
1/2" = 1'-0"
Changing #3 & #4 Similar

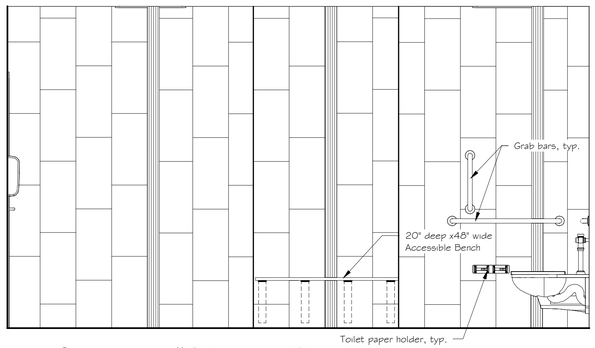


7 A52 Changing #2 South Elev.
1/2" = 1'-0"

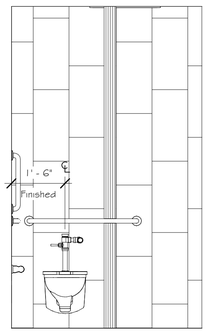


6 A52 Changing #2 Enlarged Plan
1/2" = 1'-0"

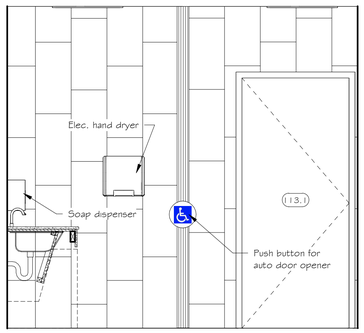
General Notes:
1. See Sheet A00 Cover Sheet for adult changing table bid alternate and required base bid accompanying items.
2. Provide restroom accessories shown on this Sheet and specified on Sheet A50.
3. See Sheet A20 for wall mounted bench details.



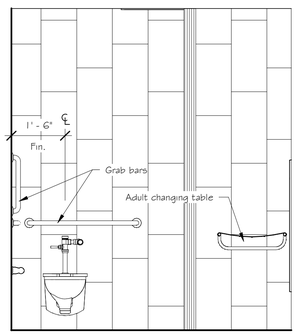
10 A52 Changing #2 North Elev.
1/2" = 1'-0"



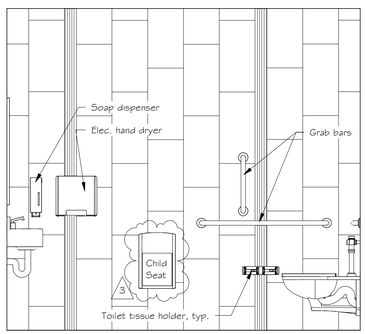
9 A52 Changing #2 East Elev.
1/2" = 1'-0"



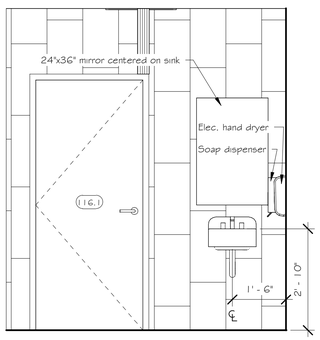
8 A52 Changing #2 West Elev.
1/2" = 1'-0"



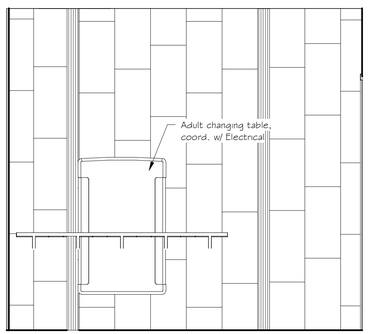
15 A52 Changing #5 East Elev.
1/2" = 1'-0"



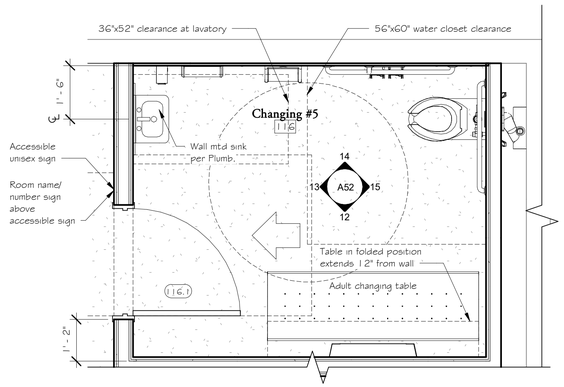
14 A52 Changing #5 North Elev.
1/2" = 1'-0"



13 A52 Changing #5 West Elev.
1/2" = 1'-0"



12 A52 Changing #5 South Elev.
1/2" = 1'-0"



11 A52 Changing #5 Enlarged Plan
1/2" = 1'-0"

Rec. Center Locker Rm Remodel

651 10th Ave.
Greeley, CO 80631

Halcyon Design LLC
PO Box 684
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STATE OF COLORADO
KELLY CHRISTINE DEITMAN
400181
10.24.21
LICENSED ARCHITECT

DATE
10.24.21

REVISIONS
2 - 2.14.22
3 - 8.29.23

SHEET TITLE
Family Locker Rm Details

SHEET NUMBER
A52

Project No. 2102

PLUMBING GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH.
2. THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE USE OF REVIEWED OR SPECIFIED EQUALS SHALL BE COORDINATED BY THE CONTRACTOR FOR SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS, AND PERFORMANCE.
3. ALL WORK SHALL CONFORM WITH ALL APPLICABLE BUILDINGS CODES, FIRE CODES, AND ALL AUTHORITIES HAVING JURISDICTION.
4. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL DESIGN INTENT, ARRANGEMENT, AND GENERAL EXTENT OF SYSTEMS. DO NOT SCALE DRAWINGS NOR USE AS SHOP DRAWINGS. WHERE ALTERNATIVE ROUTING, OFFSETS, AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL OTHER TRADES, THIS CONTRACTOR SHALL PROVIDE FIELD COORDINATION OF ALL OTHER TRADES, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. CONTRACTOR SHALL CLOSELY COORDINATE NEW PLUMBING WORK WITH ALL NEW AND EXISTING MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, AND STRUCTURAL MEMBERS. RELOCATE EXISTING MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS REQUIRED TO ACCOMMODATE ALL NEW WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, LOW VOLTAGE, A/V, ETC.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND INSTALLING SLEEVES, INSERTS AND SUPPORTS AS REQUIRED FOR THIS SCOPE OF WORK AND/OR CORE DRILL REQUIREMENTS. COORDINATE WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER AS REQUIRED.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION UNLESS SPECIFICALLY DIRECTED OTHERWISE.
8. THE PLUMBING DIAGRAMS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION, AND INSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
9. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES AT THE SITE PRIOR TO THE INSTALLATION OF ANY PIPING SYSTEMS.
10. ALL SANITARY SEWER PIPING 3" AND LARGER SHALL SLOPE AT 1% OR 1/8" PER FOOT, UNLESS NOTED OTHERWISE. ALL SANITARY SEWER PIPING 2" AND SMALLER SHALL SLOPE AT 2% OR 1/4" PER FOOT.
11. ALL WALL AND FLOOR CLEAN OUTS, SERVING 4" AND SMALLER, SHALL BE THE SAME SIZE AS THE PIPING SYSTEM THEY SERVE. CLEAN OUTS SERVING 5" AND 6" PIPE SYSTEMS SHALL BE 4". CLEAN OUTS SERVING 8" PIPING SYSTEMS SHALL BE 6". CLEAN OUTS SERVING, 10" AND LARGER, SHALL BE 8".
12. PROVIDE TEMPERING VALVES FOR ALL LAVATORIES AND HAND WASHING SINKS. TEMPERING VALVES SHALL CONFORM WITH ASSE 1070 (POWERS MODEL LFG480 OR EQUIVALENT).
13. PROVIDE WATER HAMMER ARRESTERS AT ALL QUICK CLOSING VALVES WITH ISOLATION VALVE AND WITH ACCESS OR ACCESS PANEL.
14. ALL THREADED HOSE CONNECTIONS TO DOMESTIC WATER SYSTEM SHALL HAVE AN APPROVED VACUUM BREAKER. IE: HOSE BIBS, WALL HYDRANTS, SYSTEM DRAINS, EQUIPMENT DRAINS, ETC.
15. PROVIDE ACCESS PANELS IN HARD CEILINGS AND WALLS FOR ACCESS TO ALL PLUMBING EQUIPMENT, ISOLATION VALVES, ETC. THIS SHALL INCLUDE ALL NEW AND EXISTING PLUMBING ITEMS REQUIRING ACCESS.
16. PROVIDE REDLINE MARKUPS OF ANY FIELD CHANGES OR MODIFICATIONS ON THE CONSTRUCTION DOCUMENTS. REDLINE DRAWINGS SHALL BE REQUIRED WHETHER COORDINATION DRAWINGS ARE REQUIRED OR NOT.
17. WHERE PIPING IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING SHALL BE REPAIRED EQUAL TO NEW CONDITION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF THE DESIGNATED SYSTEMS. COORDINATE REPAIR WITH ARCHITECT.
19. THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA.
20. THE LOCATION AND CONDITION OF THE EXISTING PROPERTY AND PLUMBING SYSTEMS WERE TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS, OBSERVED FIELD CONDITIONS, AND ASSUMED FIELD CONDITIONS. CERTAIN ASSUMPTIONS MAY BE MADE REGARDING EXISTING CONDITIONS BECAUSE THE ASSUMPTION MAY NOT BE VERIFIED WITHOUT DESTROYING THE EXISTING SPACE. CONTRACTOR SHALL VERIFY EXISTING SYSTEMS PRIOR TO SUBMITTING FINAL BIDS, FABRICATION, OR SUBMITTALS.

PLUMBING LEGEND

ALL SYMBOLS IN LEGEND MAY NOT BE USED ON THIS PROJECT.

ABBREVIATIONS

AD	ACCESS DOOR	HR	HOUR	PD	PRESSURE DROP
AFF	ABOVE FINISH FLOOR	HZ	HERTZ	PH	PHASE
AP	ACCESS PANEL	IN	INCH	PRV	PRESSURE REDUCING VALVE
BAS	BUILDING AUTOMATION SYSTEM	I.E.	INVERT ELEVATION	PSI	POUND PER SQUARE INCH
BOP	BOTTOM OF PIPE	KW	KILOWATT	PSIA	POUND PER SQUARE INCH ABS.
BHP	BRAKE HORSE POWER	KWH	KILOWATT-HOUR	PSIG	POUND PER SQUARE INCH GAUGE
BMS	BUILDING MANAGEMENT SYSTEM	LBS	POUNDS	RPM	REVOLUTIONS PER MINUTE
BTU	BRITISH THERMAL UNIT	LF	LINEAR FEET	SQ FT	SQUARE FEET
CFH	CUBIC FEET PER HOUR	LWT	LEAVING WATER TEMPERATURE	TAB	TESTING AND BALANCING
CFM	CUBIC FEET PER MINUTE	MBH	1000 BRITISH THERMAL UNITS PER HOUR	TDH	TOTAL DEVELOPED HEAD
CP	CONDENSATE PUMP	MCA	MINIMUM CIRCUIT AMPS	TEL	TOTAL EQUIVALENT LENGTH
DN	DOWN	MOCP	MAXIMUM OVER CURRENT PROTECTION	TYP	TYPICAL
(E)	EXISTING	NA	NOT APPLICABLE	UNO	UNLESS NOTED OTHERWISE
ET	EXPANSION TANK	NC	NORMALLY CLOSED	UV	ULTRA VIOLET
EWT	ENTERING WATER TEMPERATURE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	V	VOLT
°F	DEGREES FAHRENHEIT	NIC	NOT IN CONTRACT	VAV	VARIABLE AIR VOLUME
FLA	FULL LOAD AMPS	NO	NORMALLY OPEN	VD	VOLUME DAMPER (MANUAL)
FPM	FEET PER MINUTE	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE	VFD	VARIABLE FREQUENCY DRIVE
FPS	FEET PER SECOND	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED	VTR	VENT THRU ROOF
FT	FEET	P	PUMP	WC	WATER COLUMN
FM	FORCED MAIN	PCF	POUND PER CUBIC FOOT	WH	WATER HEATER
GAL	GALLONS			(N)	NEW
GPH	GALLONS PER HOUR			(E)	EXISTING
GPM	GALLONS PER MINUTE			(F)	FUTURE
HD	HEAD			(R)	RELOCATED
HP	HORSE POWER				

SYMBOLS AND DESCRIPTIONS

- WH / X — EQUIPMENT DESIGNATION.
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED.
- ## / @-### — SECTION REFERENCE NUMBER. SECTION SHEET NUMBER
- # — WORK NOTE DESIGNATION.
- # — DEMOLITION NOTE DESIGNATION.
- POINT OF CONNECTION. NEW TO EXISTING
- ROOF DRAIN (RD), OVERFLOW ROOF DRAIN (ORD)
- DOWNSPOUT (DS)
- CLEANOUT, WALL (WCO)
- CLEANOUT, FINISH FLOOR (FCO)
- CLEANOUT, PLUG (CO)
- FS — FLOOR SINK
- FLOOR DRAIN
- FPWH — FROST PROOF WALL HYDRANT
- HB — HOSE BIB
- SPRINKLER HEAD
- FIXTURE SUPPORT (WALL CARRIER)

PIPING DESIGNATIONS AND FITTINGS

CA	COMPRESSED AIR
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATION
NP	DOMESTIC NON-POTBALE WATER
SCW	DOMESTIC SOFT COLD WATER
SHW	DOMESTIC SOFT HOT WATER
	EXISTING DOMESTIC WATER
	EXISTING SANITARY
G	GAS PIPING
SS	ABOVE GRADE SANITARY
SS	BELOW GRADE SANITARY
GSS	GREASE SANITARY
CWV	SS - COMBINATION WASTE AND VENT
V	VENT
CV	CIRCUIT VENT
SD	STORM DRAIN PIPING ABOVE GRADE
SD	STORM DRAIN PIPING BELOW GRADE
OSD	OVERFLOW STORM DRAIN PIPING

ISOLATION VALVE
CHECK VALVE
PLUG VALVE
DYNAMIC VALVE
TWO-WAY CONTROL VALVE
THREE-WAY CONTROL VALVE
BALANCING VALVE
PRESSURE REDUCING VALVE
STRAINER
TEST PORT, UNION
THERMOMETER, PRESSURE GAUGE
WELL, MANUAL AIR VENT
PIPE DOWN AND PIPE TEE DOWN
PIPE UP AND PIPE TEE UP
PIPE CAP, BLIND FLANGE
PIPE ANCHOR,ALIGNMENT GUIDE

PIPING NOTATION

X" PIPE TYPE (XXX)

XXX = FIXTURE UNITS FOR WATER AND SANITARY PIPING
XXX = GPM OF FLOW FOR HWC PIPING
XXX = MBH CONNECTED LOAD FOR GAS PIPING
XXX, XX = ROOF AREA IN SQFT. AND GPM FOR STORM PIPING

PLUMBING DRAWING INDEX

● ISSUED FOR CONSTRUCTION
○ ISSUED FOR REFERENCE ONLY

SHEET NUMBER	SHEET TITLE	PERMIT ISSUE 10/22/2021
P01	PLUMBING INDEX, LEGENDS, AND NOTES	○
P02	PLUMBING SCHEDULES AND DIAGRAMS	○
P09	PLUMBING DEMOLITION PLAN	○
P10	PLUMBING FLOOR PLAN - WATER & GAS	○
P11	PLUMBING FLOOR PLAN - WASTE & VENT	○
	TOTAL:	5

DESIGN DATA

LOCATION: GREELEY ,CO

CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 IECC
ALL APPLICABLE LOCAL AMENDMENTS

PIPING SYSTEM NOTES

1. ALL NEW COLD, HOT AND HOT WATER CIRC WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER CONFIRMING TO LEAD-FREE STANDARDS WITH CAST BRONZE OR WROUGHT COPPER FITTINGS, SOLDER JOINT TYPE USING ONLY LEAD FREE SOLDER.
2. PROVIDE 1 1/2" FIBERGLASS INSULATION ON ALL HOT AND HOT WATER CIRC PIPING. CW PIPING DOES NOT REQUIRE INSULATION.
3. PIPE INSULATION SHALL BE SNAP-ON TYPE, FIBERGLASS PIPE INSULATION WITH WHITE SELF-SEALING FLAME RETARDANT VAPOR BARRIER JACKET. ALL VALVES AND FITTINGS SHALL BE INSULATED.
4. PROVIDE CALCIUM SILICATE INSERT AT ALL HANGER LOCATIONS. PROVIDE INSULATION SHIELDS AT ALL HANGERS WITH HANGERS LOCATED UNDER THE INSULATION AND NOT IN CONTACT WITH THE PIPING.
5. PROVIDE PIPE MARKERS AND FLOW ARROWS FOR ALL PIPING.
6. UPON THE COMPLETION OF THE DOMESTIC WATER SUPPLY SYSTEM PIPING SHALL BE TESTED AND PROVED AIR TIGHT UNDER A WATER PRESSURE TEST NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR, FOR PIPING SYSTEMS EXCLUDING PLASTIC PIPE, BY AN AIR TEST OF NOT LESS THAN 50 PSIG. PIPING SHALL HOLD PRESSURE FOR A MINIMUM ONE (1) HOUR.

DISINFECTION OF POTABLE WATER SYSTEM

NEW POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED BELOW. THIS REQUIREMENT SHALL APPLY TO "ON-SITE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM.

1. THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
2. THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/ CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION (50 MG/L) OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION (200 MG/L) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
3. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
4. THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

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REVISIONS

SHEET TITLE
PLUMBING INDEX, LEGENDS, AND NOTES

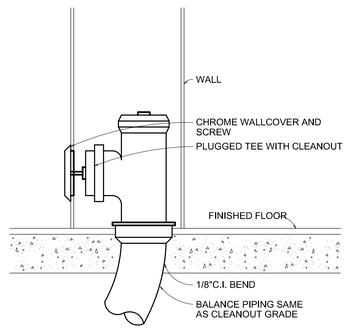
SHEET NUMBER
P01

Project No. 2102

PLUMBING FIXTURE SCHEDULE - REFERENCE ARCHITECTURAL DRAWINGS FOR SELECTIONS

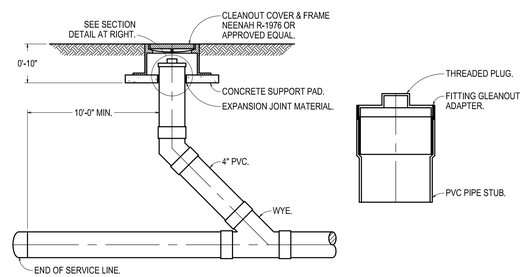
TAG	ITEM	LOCATION	MANUFACTURER	MODEL	FINISH	DESCRIPTION	CONNECTION SIZE				NOTES
							WASTE	VENT	HOT WATER	COLD WATER	
WC-1	WATER CLOSET	RESTROOM	AMERICAN STANDARD	3351.528	WHITE/CHROME	AFWALL MILLENIUM FLOWISE, 12.8 GPF, WALL MOUNTED, SELECTRONIC FLUSH VALVE, EVERCLEAN. 5901.100 HEAVY DUTY OPEN FRONT LESS COVER TOILET SEAT.	3"	1-1/2"	N/A	1"	
WC-2	WATER CLOSET	RESTROOM	SAME AS WC-1 EXCEPT ADA COMPLAINT				3"	1-1/2"	N/A	1"	1
UR-1	URINAL	RESTROOM	AMERICAN STANDARD	6590.525	WHITE/CHROME	WASHBROOK FLOWISE, 0.125 GPF, SELECTRONIC FLUSH VALVE.	2"	1-1/2"	N/A	3/4"	1
UR-2	URINAL	RESTROOM	SAME AS UR-1 EXCEPT ADA COMPLAINT				2"	1-1/2"	N/A	3/4"	
L-1	LAVATORY - SINK	RESTROOM	AMERICAN STANDARD	4962	WHITE	OVALYN RELIANT OVAL UNDERCOUNT, VITREOUS CHINA, FRONT OVERFLOW.	2"	1-1/2"	1/2"	1/2"	1
	LAVATORY - FAUCET		AMERICAN STANDARD	6500.275	CHROME	MONTERREY TWO HANDLE WIDESPREAD FAUCT, 0.5 GPM, GRID DRAIN.					
L-2	LAVATORY - SINK	RESTROOM	AMERICAN STANDARD	321.026	WHITE	DECLYN WALL-HUNG SINK, 4" CENTERS, VITREOUS CHINA, REAR OVERFLOW.	2"	1-1/2"	1/2"	1/2"	1
	LAVATORY - FAUCET		AMERICAN STANDARD	2000.101	CHROME	CERAMIX FAUCET, 4" CENTERS, 0.5 GPM, GRID DRAIN					
SH-1	SHOWER VALVE	RESTROOM	TOTO	TS210T	CHROME	TEMPERATURE CONTROL TRIME WITH ANTI SCALD SAFETY STCP, LEVER HANDLE, WITH TOTO TSST THERMOSTATIC MIXING VALVE	2"	1-1/2"	1/2"	1/2"	
	SHOWER HEAD		WILLOUGHBY	380025	CHROME	USER ADJUSTABLE VANDAL RESISTANT SHOWER HEAD, 2.0 GPM IN-LINE FLOW CONTROL INSERT, HI-LO MOUNTING WITH FIXED SPRAY HANDHELD SHOWER (FLEX SHOWER HEAD)					
	FLOOR DRAIN		SIOUX CHIEF	825-2P	CHROME	SHOWER MODULE DRAIN WITH STAINLESS STEEL STRAINER.					
SH-2	SHOWER VALVE (ADA)	RESTROOM	WILLOUGHBY	WRS-FA-ADA	CHROME	ADA-COMPLIANT RECESSED SHOWER PANEL WITH TEMPERATURE/PRESSURE BALANCING AND MIXING VALVE WITH DIVERTER VALVE, 2.0 GPM, WITH RECESSED MOUNTED SOAP DISH	2"	1-1/2"	3/4"	3/4"	1
	HAND SHOWER (ADA)		WILLOUGHBY	APX / FX	CHROME	USER ADJUSTABLE VANDAL RESISTANT SHOWER HEAD, 2.0 GPM IN-LINE FLOW CONTROL INSERT, AND FX HAND-HELD FLEXSHOWER HEAD					
	FLOOR DRAIN (ADA)		SIOUX CHIEF	825-2P	CHROME	SHOWER MODULE DRAIN WITH STAINLESS STEEL STRAINER.					
SS-1	SERVICE SINK		STERN WILLIAMS	SB-802	NA/	SERVIEPTOR, 24"x24"x12" WITH 2 SIDED TILING FLANGE. INCLUDE MOP-SINK FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE	3"	1/1/2"	3/4"	3/4"	-
DF-1	DRINKING FOUNTAIN		ELKAY	LZSG8WSLK	GRAY	EZH20 BOTTLE FILLING STATION AND SINGLE ADA COOLER. 8.0 GPH, 115/60HZ	2"	1-1/2"	N/A	1/2"	1
HB-1	HOSE BIBB	VARIES	PRIER	P-164	N/A	QUARTER TURN , BACKFLOW CHECK VALVE	N/A	N/A	N/A	3/4"	
FD-1	FLOOR DRAIN	VARIES	SIOUX CHIEF	832-36PNQ	TBD	CAST IRON BODY, FLASHING COLLAR, NICKEL BRONZE STRAINER, ROUND FIXED GRATE. PROVIDE PRO-SET TRAP GUARD.	2"	1-1/2"	N/A	N/A	-
TV-1	TEMPERING VALVE (LAV AND HAND SINK)	VARIES	POWERS	LFG480	N/A	MIN OF 0.25 GPM FLOW, MAX FLOW OF 12 GPM, SET OUTLET TEMPERATURE AT 110 F.	N/A	N/A	1/2"	1/2"	-
CS-1	CIRCUITSOLVER	VARIES	THERMOMEGATECH	CSUA-3/4-110-CV1-PP	N/A	CIRCUITSOLVER UNION ASSEMBLU PROPRESS, OPERATING TEMPERATURE OF 110°F	N/A	N/A	3/4"	N/A	-
SA	SHOCK ABSORBER	VARIES	PPP INC.	SC SERIES	N/A	SIZE PER LINE SIZE, INSTALL WITH BALL VALVE.	N/A	N/A	N/A	N/A	-
WCO	WALL CLEANOUT	VARIES	SIOUX CHIEF	873	CHROME	ROUND, FACE OF WALL COVER AND SCREW. IRON COVER.	2"	N/A	N/A	N/A	-
FCO	FINISH FLOOR CLEANOUT	VARIES	SIOUX CHIEF	851	NICKEL-BRONZE COVER	CAST IRON WITH ROUND ADJUSTABLE TOP.	2"	N/A	N/A	N/A	-
AAV-1	AIR ADMITTANCE VALVE	VARIES	STUDER	MINI-VENT	N/A	ABS AIR ADMITTANCE VALVE WITH A POLYPROPYLENE BALL VALVE SEALING ASSEMBLY	VARIES	VARIES	N/A	N/A	

NOTES:
1) SHALL MEET ADA STANDARDS



*NOTE: LOCATE CLEANOUTS WHERE THERE IS 18" CLEARANCE AROUND.

WALL CLEANOUT N.T.S. 2



CLEANOUT N.T.S. 1

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REVISIONS
REVISION # 3 08/29/2023

SHEET TITLE
PLUMBING SCHEDULES AND DIAGRAMS

SHEET NUMBER
P02

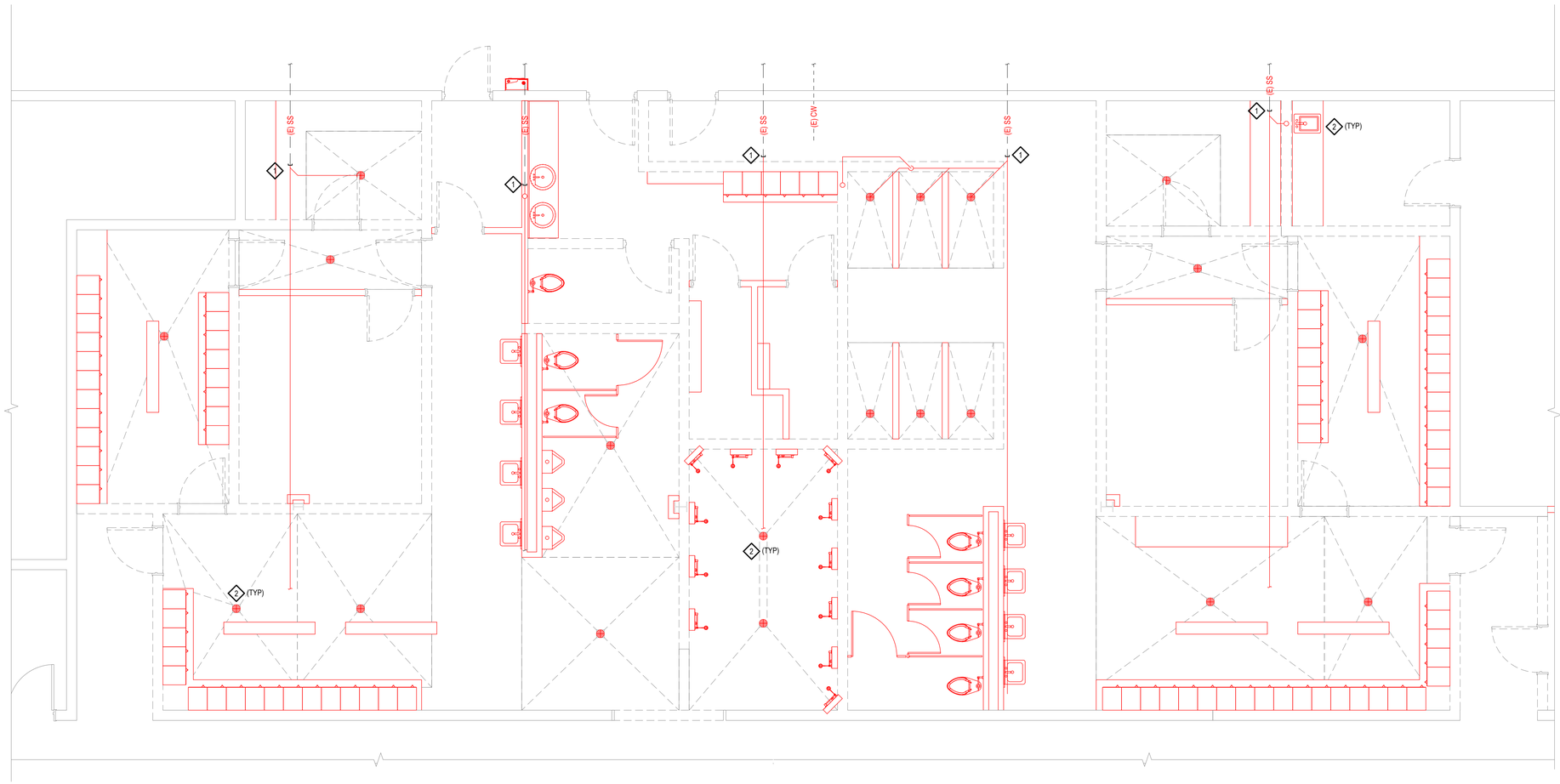
Project No. 2102

GENERAL NOTES:

1. XXX

DEMOLITION NOTES: ◇

1. CAP AND REMOVE PIPING TO THIS POINT.
2. DEMO FIXTURE AND REMOVED ASSOCIATED PIPING BACK TO MAIN.



1 / P09 PLUMBING DEMOLITION PLAN

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

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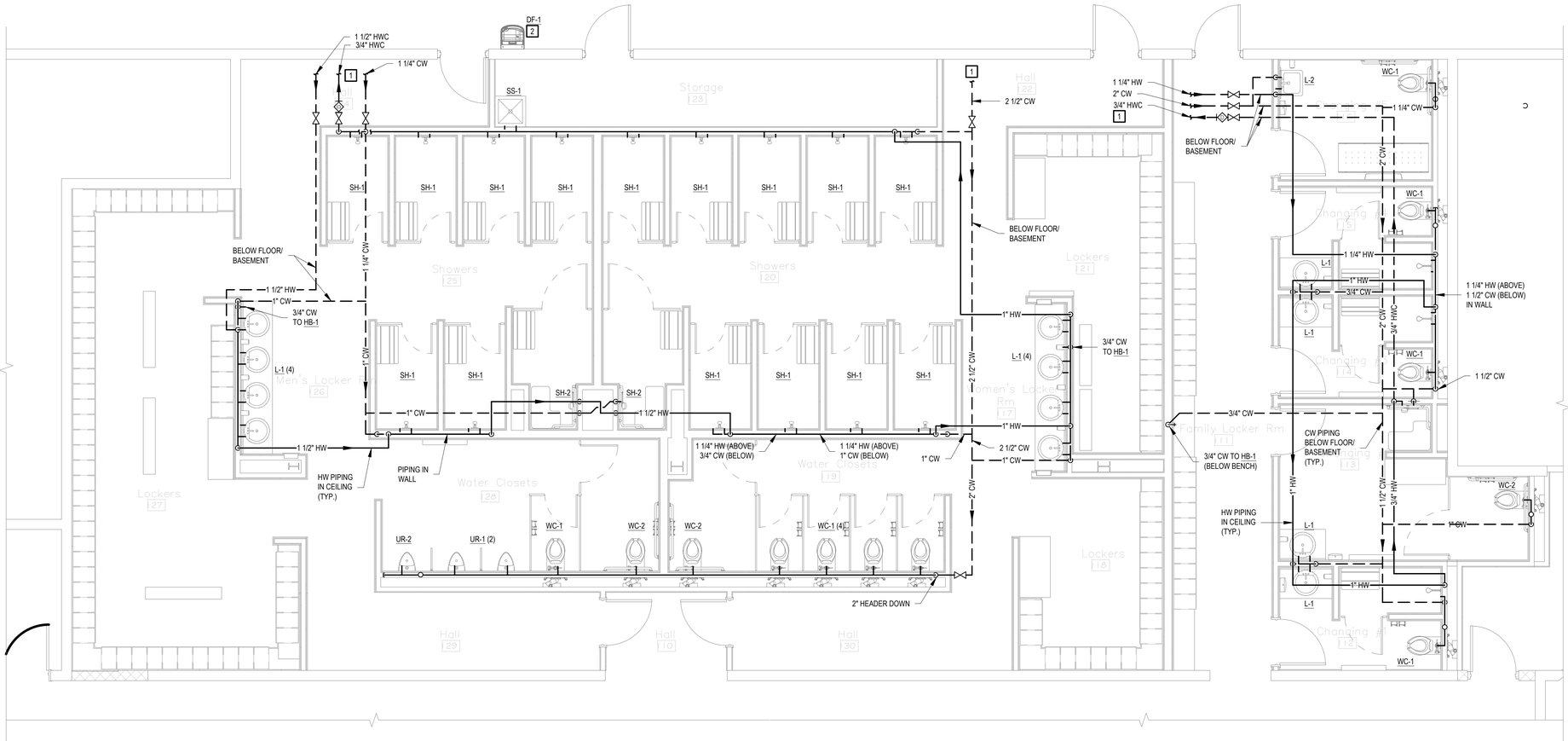
SHEET TITLE
PLUMBING DEMOLITION PLAN

SHEET NUMBER
P09

Project No. 2102

WORK NOTES:

1. CONNECT TO EXISTING WATER PIPING. VERIFY EXACT SIZE AND LOCATION.
2. RECONNECT NEW DF-1



1 / P10 PLUMBING FLOOR PLAN - WATER & GAS

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

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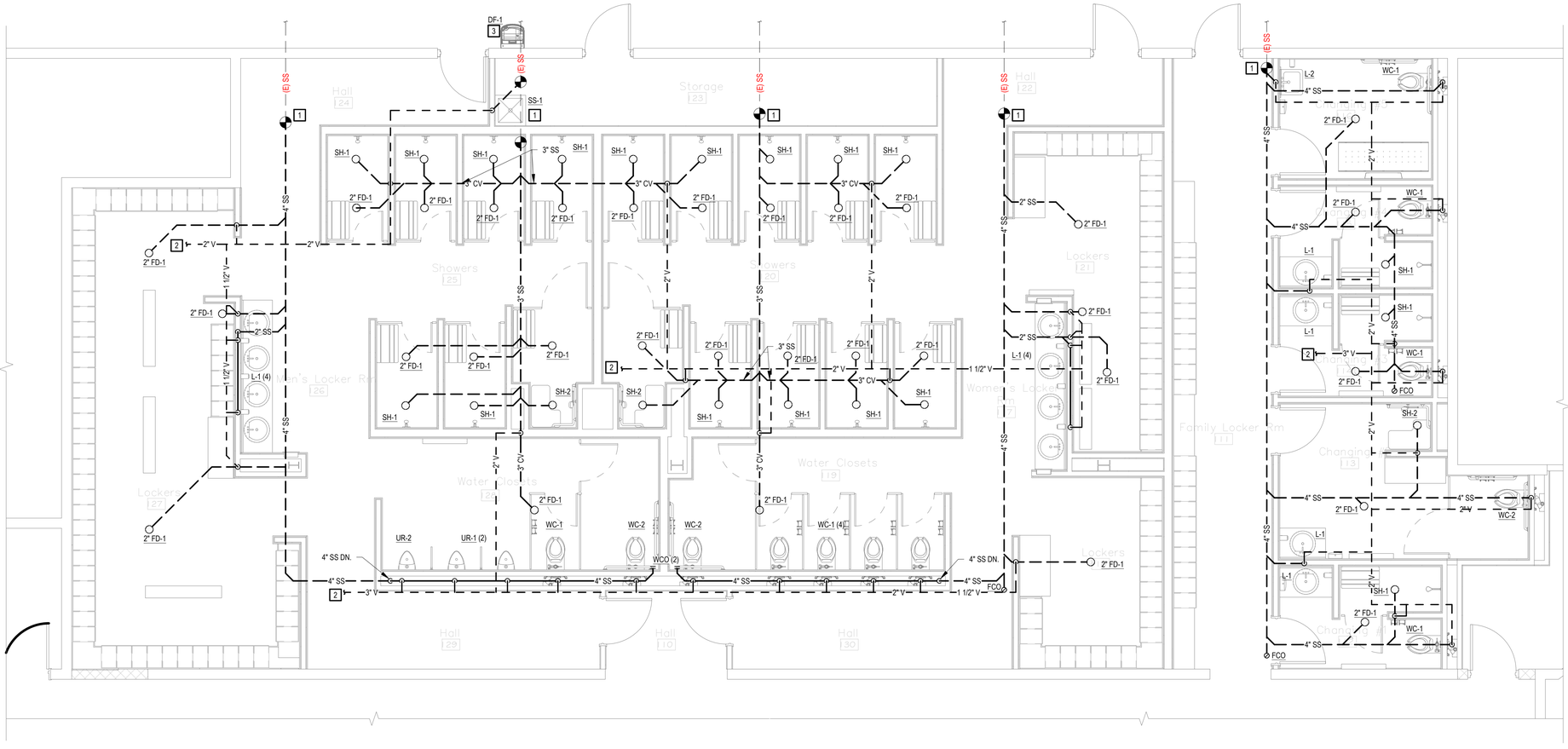
SHEET TITLE
PLUMBING FLOOR PLAN - WATER & GAS

SHEET NUMBER
P10

Project No. 2102

WORK NOTES:

1. CONNECT TO EXISTING SEWER PIPING. VERIFY EXACT SIZE AND LOCATION.
2. CONNECT TO EXISTING VENT PIPING. EXISTING VENT WILL REQUIRE TO BE SAME SIZE OR LARGER AS NEW VENT. VERIFY EXACT LOCATION.
3. RECONNECT NEW DF-1



1 / P11 PLUMBING FLOOR PLAN - WASTE & VENT

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

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10.22.21

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SHEET TITLE
PLUMBING FLOOR PLAN - WASTE & VENT

SHEET NUMBER
P11

Project No. 2102

MECHANICAL DUCT SYSTEM NOTES

1. DUCT SIZES AS INDICATED ON THE DRAWINGS ARE OUTSIDE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS USED THE DUCTWORK DIMENSIONS ACCOMMODATE THE DUCT LINER.
2. CONTRACTOR SHALL CONSTRUCT AND INSTALL DUCTWORK PER SMACNA STANDARDS.
3. EXHAUST DUCTWORK CONNECTED TO TYPE II VAPOR EXHAUST HOODS AND EXHAUST GRILLES SHALL HAVE WELDED SEAMS AND EITHER WELDED OR FLANGED JOINTS. FLANGED JOINTS SHALL BE WATERTIGHT WITH EPDM GASKETS. SLOPE DUCTWORK BACK TOWARDS HOOD/EXHAUST GRILLE AT 1% SLOPE.
4. BRANCH DUCT CONNECTIONS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.
5. SPIN-IN FITTINGS TO DIFFUSERS SHALL BE CONICAL TYPE (EXCEPT LOCATIONS WHERE LISTED DUCT HEIGHT DOES NOT ACCOMMODATE).
6. DAMPERS: SINGLE BLADE TYPE VOLUME DAMPERS SHALL BE INSTALLED AT ALL DIFFUSER TAKEOFFS AND WHERE REQUIRED FOR PROPER BALANCING. HANDLE SHALL BE VISIBLE THROUGH INSULATION.
7. REMOTE DAMPERS: PROVIDE A REMOTE DAMPER ACTUATOR FOR LOCATIONS WHERE DAMPERS ARE NOT ACCESSIBLE. WHERE REMOTE DAMPER ACTUATORS ARE PROVIDED, COORDINATE LOCATION OF REMOTE DAMPER ESCUTCHEON PLATE AND COVER WITH ARCHITECT.
8. PROVIDE A MINIMUM 12" LONG RED RIBBON LOCATOR ON VOLUME DAMPER VALVE HANDLES.
9. PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH DUCT-MOUNTED COIL, HUMIDIFIER, SMOKE DETECTOR, AND COMBINATION FIRE/SMOKE DAMPER.
10. RECTANGULAR DUCT TURNS/ELBOWS: ALL 90 DEGREE ELBOWS SHALL BE LONG RAD/US ELBOWS OR SHALL HAVE TURNING VANES CONSISTING OF SINGLE BLADE DUCT VANES WITH 2-1/2 INCH BLADE SPACING.
11. INSULATED FLEXIBLE DUCT MAY BE USED FOR THE CONNECTION TO SUPPLY AIR OUTLETS/DIFFUSERS PROVIDED THE FLEXIBLE CONNECTION DOES NOT EXCEED 6 LINEAR FEET IN LENGTH. INSTALL DUCTS FULLY EXTENDED. DO NOT INSTALL IN THE COMPRESSED STATE OR USE EXCESS LENGTH.

MECHANICAL GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH.
2. ALL WORK SHALL CONFORM WITH ALL APPLICABLE BUILDINGS CODES, FIRE CODES, AND ALL AUTHORITIES HAVING JURISDICTION.
3. THE EQUIPMENT SPECIFIED ON THE DRAWINGS HAVE BEEN SELECTED AS THE BASIS OF DESIGN. THE USE OF REVIEWED OR SPECIFIED EQUALS SHALL BE COORDINATED BY THE CONTRACTOR FOR SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS, AND PERFORMANCE.
4. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL DESIGN INTENT, ARRANGEMENT, AND GENERAL EXTENT OF SYSTEMS. DO NOT SCALE DRAWINGS NOR USE AS SHOP DRAWINGS. WHERE ALTERNATIVE ROUTING, OFFSETS, AND TRANSITIONS ARE REQUIRED FOR FIELD COORDINATION OF ALL OTHER TRADES, THIS CONTRACTOR SHALL FIELD COORDINATE WITH ALL OTHER TRADES, AND SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WORK WITH ALL NEW AND EXISTING MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, AND STRUCTURAL MEMBERS. RELOCATE EXISTING MECHANICAL, PLUMBING AND FIRE PROTECTION WORK AS REQUIRED TO ACCOMMODATE ALL NEW WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, LOW VOLTAGE, A/V, ETC.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION UNLESS SPECIFICALLY DIRECTED OTHERWISE.
7. COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, FIRE PROTECTION AND ELECTRICAL DRAWINGS.
8. INSTALL CONDENSATE DRAINS FOR ALL COOLING COILS WITH TRAP DEPTH EQUAL TO 1.5 TIMES THE UNIT'S TOTAL STATIC PRESSURE. DISCHARGE CONDENSATE TO FLOOR SINK/FLOOR DRAIN UNLESS NOTED OTHERWISE.
9. ALL ROOF WORK SHALL BE PER THE ROOFING MANUFACTURE'S INSTALLATION INSTRUCTIONS TO MAINTAIN THE EXISTING ROOF WARRANTY.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND INSTALLING SLEEVES, INSERTS AND SUPPORTS AS REQUIRED FOR THIS SCOPE OF WORK AND/OR CORE DRILL REQUIREMENTS. COORDINATE WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER AS REQUIRED.
11. CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO SUBMITTING A BID.
12. PROVIDE ACCESS PANELS IN HARD CEILINGS FOR ACCESS TO ALL MECHANICAL EQUIPMENT, FIRE DAMPERS, FIRE/SMOKE DAMPERS, ISOLATION VALVES, ETC. THIS SHALL INCLUDE ALL NEW MECHANICAL ITEMS REQUIRING ACCESS.
13. PROVIDE REDLINE MARKUPS OF ANY FIELD CHANGES OR MODIFICATIONS ON THE CONSTRUCTION DOCUMENTS. REDLINE DRAWINGS SHALL BE REQUIRED WHETHER COORDINATION DRAWINGS ARE REQUIRED OR NOT.
14. THE MECHANICAL DIAGRAMS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION, AND INSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
15. COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING CONCRETE EQUIPMENT PADS.
16. WHERE PIPING AND/OR DUCTWORK IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING AND DUCTWORK SHALL BE REPAIRED EQUAL TO NEW CONDITION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF THE DESIGNATED SYSTEMS. COORDINATE REPAIR WITH ARCHITECT.
18. THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA.
19. THE LOCATION AND CONDITION OF THE EXISTING PROPERTY AND MECHANICAL SYSTEMS WERE TAKEN FROM PREVIOUS CONSTRUCTION DRAWINGS, OBSERVED FIELD CONDITIONS, AND ASSUMED FIELD CONDITIONS. CERTAIN ASSUMPTIONS MAY BE MADE REGARDING EXISTING CONDITIONS BECAUSE THE ASSUMPTION MAY NOT BE VERIFIED WITHOUT DESTROYING THE EXISTING SPACE. CONTRACTOR SHALL VERIFY EXISTING SYSTEMS PRIOR TO SUBMITTING FINAL BIDS, FABRICATION, OR SUBMITTALS.

MECHANICAL LEGEND

ALL SYMBOLS IN LEGEND MAY NOT BE USED ON THIS PROJECT.

ABBREVIATIONS

AD	ACCESS DOOR	FLA	FULL LOAD AMPS	P	PUMP
AFF	ABOVE FINISH FLOOR	FPM	FEET PER MINUTE	PCF	POUND PER CUBIC FOOT
AFMS	AIR FLOW MEASURING STATION	FPS	FEET PER SECOND	PD	PRESSURE DROP
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	FT	FEET	PH	PHASE
		GAL	GALLONS	PPM	PARTS PER MILLION
AHU (AH)	AIR HANDLING UNIT	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE
AP	ACCESS PANEL	GPM	GALLONS PER MINUTE	PSI	POUND PER SQUARE INCH
BAS	BUILDING AUTOMATION SYSTEM	HD	HEAD	PSIA	POUND PER SQUARE INCH ABS.
BOD	BOTTOM OF DUCT	HP	HORSE POWER	PSIG	POUND PER SQUARE INCH GAUGE
BOP	BOTTOM OF PIPE	HR	HOUR	RA	RETURN AIR
BHP	BRAKE HORSE POWER	HZ	HERTZ	RH	RELATIVE HUMIDITY
BMS	BUILDING MANAGEMENT SYSTEM	IN	INCH	RPM	REVOLUTIONS PER MINUTE
BTU	BRITISH THERMAL UNIT	I.E.	INVERT ELEVATION	RTU	ROOFTOP UNIT
CFH	CUBIC FEET PER HOUR	KW	KILOWATT	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CFM	CUBIC FEET PER MINUTE	KWH	KILOWATT-HOUR		
CO	CARBON MONOXIDE	LAT	LEAVING AIR TEMPERATURE	SA	SUPPLY AIR
CO2	CARBON DIOXIDE	LBS	POUNDS	SP	STATIC PRESSURE
COP	COEFFICIENT OF PERFORMANCE	LF	LINEAR FEET	SQ FT	SQUARE FEET
CU	CONDENSING UNIT	LWT	LEAVING WATER TEMPERATURE	TAB	TESTING AND BALANCING
CV	CONSTANT VOLUME	MAT	MIXED AIR TEMPERATURE	TDH	TOTAL DEVELOPED HEAD
CWP	CONDENSER WATER PUMP	MBH	1000 BRITISH THERMAL UNITS PER HOUR	TEL	TOTAL EQUIVALENT LENGTH
DB	DRY BULB TEMPERATURE			TSP	TOTAL STATIC PRESSURE
dB	DECIBEL	MCA	MINIMUM CIRCUIT AMPS	TYP	TYPICAL
DDC	DIRECT DIGITAL CONTROL	MERV	MINIMUM EFFICIENCY REPORTING VALUE	UNO	UNLESS NOTED OTHERWISE
DN	DOWN			UV	ULTRA VIOLET
DP	DIFFERENTIAL PRESSURE	MOCP	MAXIMUM OVER CURRENT PROTECTION	V	VOLT
DS	DUCT SUMP			VAV	VARIABLE AIR VOLUME
DX	DIRECT EXPANSION	NA	NOT APPLICABLE	VD	VOLUME DAMPER (MANUAL)
(E)	EXISTING	NC	NORMALLY CLOSED	VFD	VARIABLE FREQUENCY DRIVE
EA	EXHAUST AIR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VTR	VENT THRU ROOF
EAT	ENTERING AIR TEMPERATURE			WB	WET BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO	NIC	NOT IN CONTRACT	WC	WATER COLUMN
EFF	EFFICIENCY	NO	NORMALLY OPEN	WPD	WATER PRESSURE DROP
ESP	EXTERNAL STATIC PRESSURE	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE	(N)	NEW
ET	EXPANSION TANK			(E)	EXISTING
EWT	ENTERING WATER TEMPERATURE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED	(F)	FUTURE
°F	DEGREES FAHRENHEIT			(REL)	RELOCATED
FCU (FC)	FAN COIL UNIT	OA	OUTSIDE AIR		

SYMBOLS AND DESCRIPTIONS

EF-X — EQUIPMENT DESIGNATION.

EXISTING DUCTWORK / PIPING TO REMAIN

EXISTING DUCTWORK / PIPING TO BE REMOVED.

##/G-#### — SECTION REFERENCE NUMBER. SECTION SHEET NUMBER

NECK SIZE; DEVICE TYPE — A 3'0 / 200 — AIR DEVICE DESIGNATION

SLOT LENGTH; AIRFLOW — A 4FL/8'0 / 200 — LINEAR SLOT DESIGNATION

REB / 200 — REBALANCE EXISTING DIFFUSER

REL / 200 — RELOCATE AND REBALANCE EXISTING DIFFUSER

AX-XX-H — TERMINAL UNIT TAG; REHEAT DESIGNATION, BOX DESIGNATION, AHU OR MAU DESIGNATION

— WORK NOTE DESIGNATION.

— DEMOLITION NOTE DESIGNATION.

POINT OF CONNECTION. NEW TO EXISTING

H — HUMIDITY SENSOR

T — TEMPERATURE SENSOR.

TT — TEMPERATURE TRANSMITTER

CO — CARBON MONIXIDE SENSOR.

CO2 — CARBON DIOXIDE SENSOR.

AQ — INDOOR AIR QUALITY SENSOR.

OCC — OCCUPANCY SENSOR.

SHEET METAL FITTINGS AND EQUIPMENT

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

EXHAUST AIR GRILLE

LINEAR SLOT DIFFUSER

SUPPLY DUCT UP

SUPPLY DUCT DOWN

RETURN DUCT UP

RETURN DUCT DOWN

EXHAUST DUCT UP

EXHAUST DUCT DOWN

DUCT TRANSITION

DUCT TRANSITION

SQUARE TO ROUND DUCT TRANSITION

AIRFLOW - SUPPLY

AIRFLOW - RETURN OR EXHAUST

MANUAL VOLUME DAMPER

MANUAL VOLUME DAMPER WITH REMOTE OPERATION

C — COMBINATION FIRE/SMOKE DAMPER.

F — FIRE DAMPER.

S — SMOKE DAMPER.

M — MOTORIZED CONTROL DAMPER

PIPING DESIGNATIONS AND FITTINGS

HWS — HEATING WATER SUPPLY
HWR — HEATING WATER RETURN
HRS — HEAT RECOVERY SUPPLY
HRR — HEAT RECOVERY RETURN
CHWS — CHILLED WATER SUPPLY
CHWR — CHILLED WATER RETURN
CWS — CONDENSER WATER SUPPLY
CWR — CONDENSER WATER RETURN
LPS — LOW PRESSURE STEAM
LPR — STEAM (CONDENSATE) RETURN
RL — REFRIGERANT LIQUID
RS — REFRIGERANT SUCTION
RHG — REFRIGERANT HOT GAS
CD — CONDENSATE DRAIN
PCD — PUMPED CONDENSATE DRAIN
RH — RADIANT HEATING
SM — SNOWMELT
ARROW IN LINE INDICATES DIRECTION OF FLOW

ISOLATION VALVE
CHECK VALVE
PLUG VALVE
DYNAMIC VALVE
TWO-WAY CONTROL VALVE
THREE-WAY CONTROL VALVE
BALANCING VALVE
PRESSURE REDUCING VALVE
STRAINER
TP — TEST PORT, UNION
THERMOMETER, PRESSURE GAUGE
TT — MAV — WELL, MANUAL AIR VENT
PIPE DOWN AND PIPE TEE DOWN
PIPE UP AND PIPE TEE UP
PIPE CAP, BLIND FLANGE
PIPE ANCHOR,ALIGNMENT GUIDE

PIPING NOTATION

X" PIPE TYPE (XXX)

XXX = GPM OF FLOW FOR PIPING

MECHANICAL DRAWING INDEX

● ISSUED FOR CONSTRUCTION
○ ISSUED FOR REFERENCE ONLY

SHEET NUMBER	SHEET TITLE	PROGRESS REVIEW 10/01/2021	PERMIT ISSUE 10/22/2021				
M01	MECHANICAL INDEX, LEGENDS, AND NOTES	○	○				
M02	MECHANICAL SCHEDULES AND DIAGRAMS	○	○				
M09	MECHANICAL DEMOLITION PLAN	○	○				
M10	MECHANICAL FLOOR PLAN	○	○				
	TOTAL:	4	4	-	-	-	

DESIGN DATA

LOCATION:	GREELEY, CO ALTITUDE: 5000 FT DENSITY RATIO: 0.832
ASHRAE CLIMATE ZONE:	5B
OUTDOOR CONDITIONS:	SUMMER DESIGN DB = 95 °F COINCIDENT WB = 61 °F WINTER DESIGN DB = -5 °F
INDOOR CONDITIONS:	SUMMER DESIGN DB = 75 °F WINTER DESIGN DB = 70 °F
CODES:	2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2012 IECC ALL APPLICABLE LOCAL AMENDMENTS
VENTILATION:	SEE VENTILATION SCHEDULE PER ASHRAE 62.1 AND 2012 IMC.
ENVELOPE CHARACTERISTICS:	REFERENCE ARCHITECTURAL PLANS.

DUCT SCHEDULE

	MATERIAL	PRESSURE CLASS	MINIMUM SMACNA SEAL CLASS	SMACNA LEAKAGE CLASS FOR RECT.	SMACNA LEAKAGE CLASS FOR ROUND	DUCT SYSTEM NOTES
SUPPLY AND RETURN DUCTS						
UPSTREAM AND DOWNSTREAM OF FANS WITH LESS THAN 2" ESP	GALVANIZED STEEL	2-INCH WG	B	24	12	ALL EXTERIOR DUCTWORK TO BE SEAL CLASS A
EXHAUST DUCTS						
HIGH MOISTURE AREAS (LOCKER RMS, SHOWER RMS, DISHWASH RMS)	304 STAINLESS STEEL	3-INCH WG	AIRTIGHT/ WATERTIGHT	-	-	#4

INSULATION SCHEDULE

	SYSTEM	LINER/WRAP	THICKNESS (IN)	DENSITY (LBS/FT3)	MINIMUM R-VALUE	NOTES
ALL OTHER SUPPLY DUCTWORK	SUPPLY	WRAP	1.5"	0.75	R-4.2	WITH FSK FACING
TRANSFER DUCTS (AT FULL HEIGHT WALLS, RETURN BOOTS, ETC.)	RETURN	LINER	1"	1.5	R-4.2	
ALL OTHER RETURN WITHIN RA PLENUM	RETURN	NONE	N/A	N/A	N/A	
ALL OTHER EXHAUST	EXHAUST	NONE	N/A	N/A	N/A	

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10/24/2021

DATE
10.22.21

REVISIONS

SHEET TITLE
MECHANICAL INDEX, LEGENDS, AND NOTES

SHEET NUMBER
M01

Project No. 2102

DIFFUSER, GRILLE AND REGISTER SCHEDULE

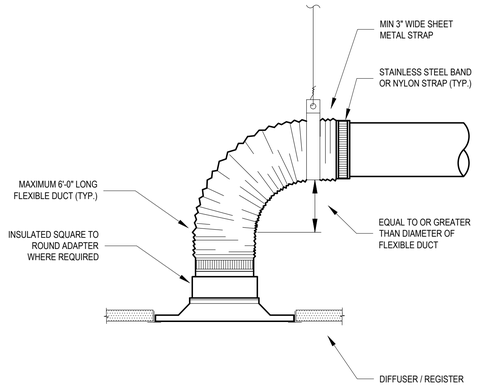
TAG	MANUF	MODEL	SYSTEM	SIZE	DESCRIPTION	CONSTRUCTION	OBD	FINISH	NOTES
A	TITUS	OMNI	SUPPLY	24x24	ARCHITECTURAL SQUARE PLAQUE FACE.	ALUMINUM	N	2	A, B, C, D
B	TITUS	PXP-AA	EXHAUST	24x24	PERFORATED FACE.	ALUMINUM	N	2	A, B, C
C	TITUS	350-RL	EXHAUST	VARIES	3/4" SPACING, 35 DEG. DEFLECTION.	ALUMINUM	Y	2	A, B, C, D
D	TITUS	PXP-AA	RETURN	24x24	PERFORATED FACE.	ALUMINUM	N	1, 2	A, B, C, D

FINISHES:
1) FACTORY FINISH STANDARD OFF WHITE FOR NON PUBLIC / BOH AREAS,
2) DIFFUSER TO BE FIELD PAINTED IN PUBLIC AREAS, COLOR TO BE DETERMINED BY ARCHITECT.

NOTES:
A) SEE DRAWINGS FOR NECK SIZE AND AIR QUANTITY,
B) PROVIDE FRAME COMPATIBLE WITH CEILING TYPE,
C) REFERENCE ARCHITECTURAL PLANS FOR FINAL DIFFUSER LOCATIONS,
D) PROVIDE SQUARE-TO-ROUND TRANSITION AT DIFFUSER CONNECTION AS REQUIRED,

NOTES:

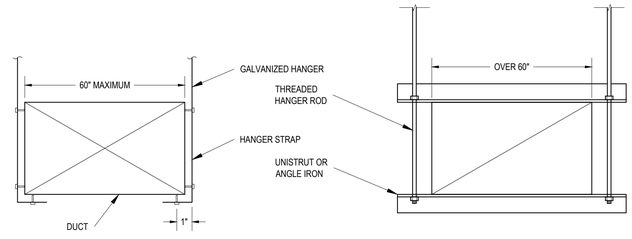
1. EXHAUST AIR REGISTERS SIMILAR WITH RIGID DUCT IN LIEU OF FLEX.
2. FOR CEILING SPACES WITHOUT CLEARANCE FOR PROPER BEND AT FLEX DUCT, PROVIDE FULL SIZE INSULATED SHEET METAL ELBOW WITH TURNING VANES FOR SIDE CONNECTION TO DUCTWORK.



CEILING DIFFUSER INSTALLATION — N.T.S. — 1

NOTES:

1. FOR DUCTS OVER 48" WIDE, BOTTOM SHALL BE ANGLE BRACED. FOR CROSS SECTION AREA GREATER THAN 8 SQUARE FEET, DUCT SHALL BE ANGLE BRACED ON ALL FOUR SIDES.
2. SUPPORTS SHALL BE SPACED AND SIZED PER SMACNA STANDARDS.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS,



DUCT HANGER SUPPORT — N.T.S. — 2

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REVISIONS

SHEET TITLE
MECHANICAL SCHEDULES AND DIAGRAMS

SHEET NUMBER
M02

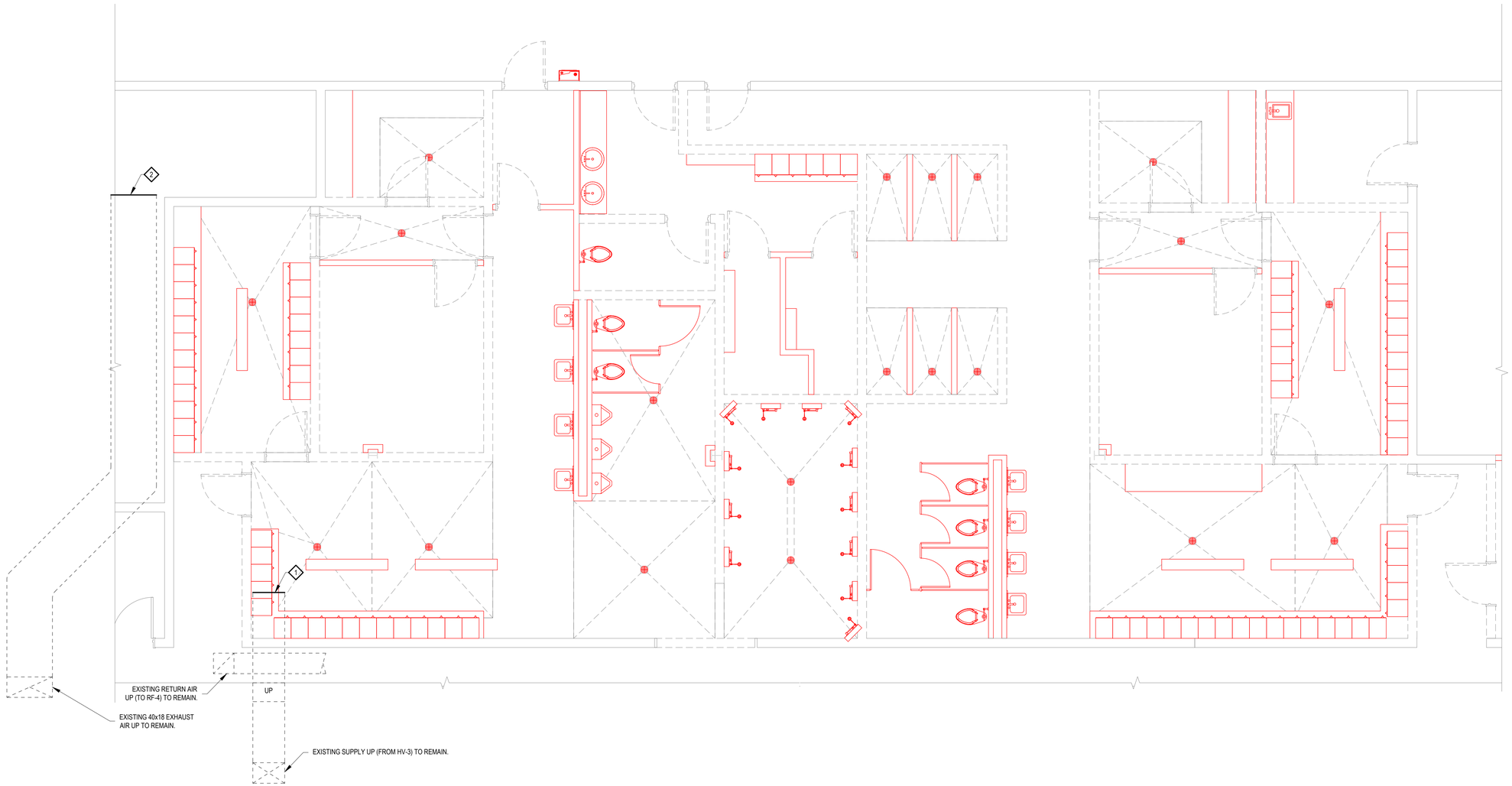
Project No. 2102

GENERAL NOTES:

1. EXISTING AIR HANDLER (HV-3) AND EXHAUST FAN (RF-4) IN MECHANICAL ROOM ABOVE ARE TO REMAIN.

DEMOLITION NOTES: ◇

1. REMOVE ALL DOWNSTREAM SUPPLY DUCTWORK AND DIFFUSERS DOWNSTREAM AND PREPARE DUCT FOR RECONNECTION WITH NEW.
2. REMOVE ALL EXHAUST DUCTWORK AND GRILLES DOWNSTREAM AND PREPARE DUCTWORK FOR RECONNECTION WITH NEW.



1 / M09 MECHANICAL DEMOLITION PLAN

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

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DATE
10.22.21

REVISIONS

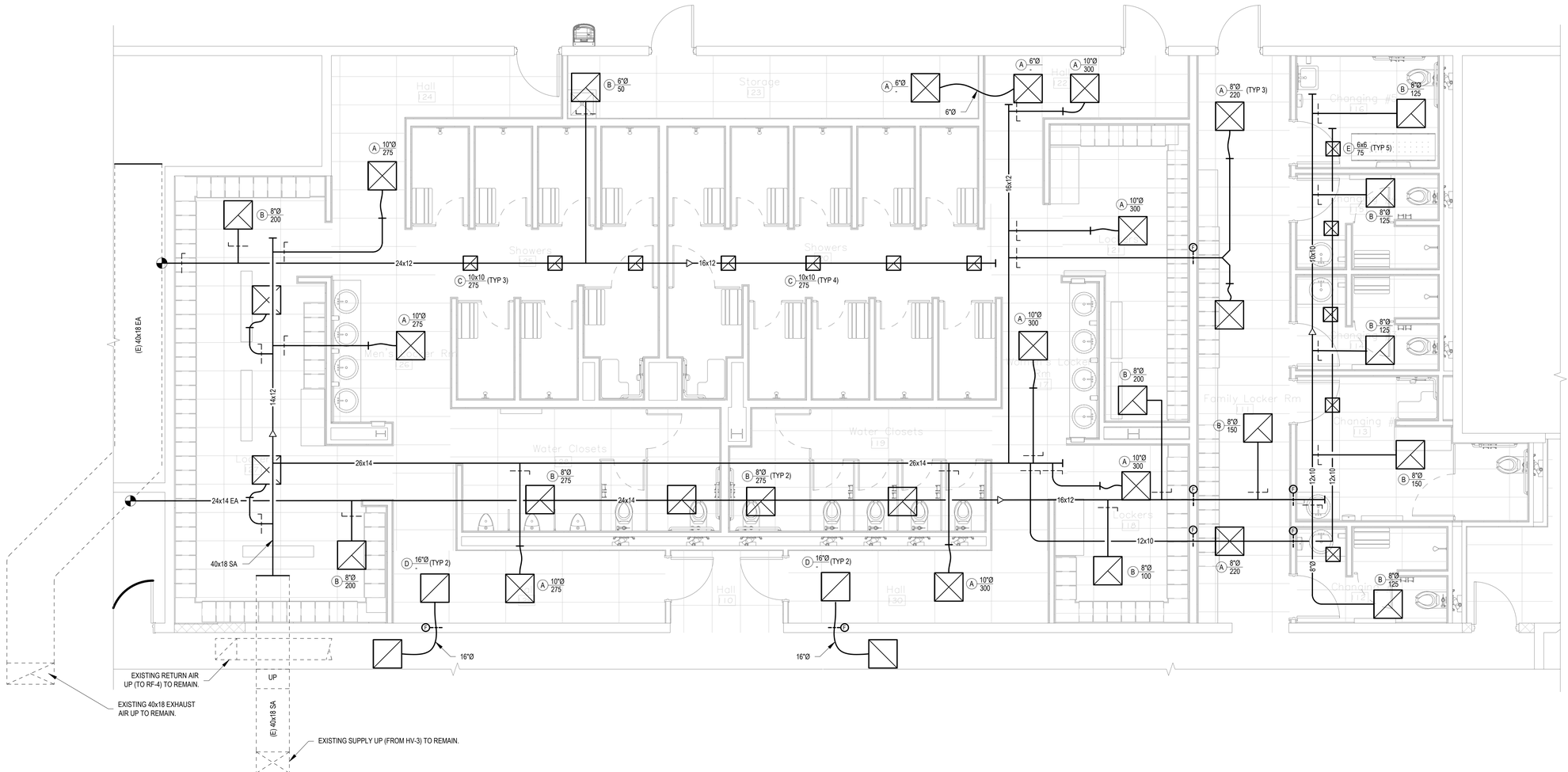
SHEET TITLE
MECHANICAL DEMOLITION PLAN

SHEET NUMBER
M09

Project No. 2102

WORK NOTES:

1. XXX



1 / M10 MECHANICAL FLOOR PLAN

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

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REVISIONS

SHEET TITLE
MECHANICAL FLOOR PLAN

SHEET NUMBER
M10

Project No. 2102

LIGHT FIXTURE SCHEDULE

FIXTURE DESIGNATION	DESCRIPTION	MANUFACTURER INFORMATION		MOUNTING	LAMP	WATTAGE	VOLTAGE	NOTES
		NAME	CATALOG NUMBER					
A1	2x2 LAY IN, LED PANEL, 5000LM, 80 CRI, 4000K, PRISMATIC LENS, 0-10V DRIVER,	LITHONIA	CPX-2X2-5000LM-80-40K-A12-MIN10-ZT-MVOLT	LAY-IN	LED	32	MVOLT	
B1	4" DIAMETER, LED, SHOWER LENS, FLOOD DISTRIBUTION, 4000K, 80CRI, ELV DRIVER.	AMERLUX	HDL-HP-R-NC-A17-T-13-120/277-LE/TE HDL-HP-RPASHW-A17-T--MW-FL-10	RECESSED	LED	13	MVOLT	
X1	SINGLE FACE, LED, EXIT SIGN, RED LETTER, THERMOPLASTIC HOUSING	LITHONIA	LQM-S-W-3-R-MVOLT-ELN-SD	SURFACE	LED	2	MVOLT	

NOTES
A

TELECOM SYMBOLS LIST

(NOT ALL SYMBOLS MAY APPEAR IN THESE DRAWINGS)

- TELECOM OUTLET: PROVIDE FLUSH MOUNT 4S JUNCTION BOX WITH 2-GANG OPENING AND MUD-RING. ROUTE (1) 3/4" CONDUIT TO ACCESSIBLE ABOVE CEILING SPACE COMPLETE WITH PULLSTRING. FUTURE CABLING BY OTHERS.
- D2 / V2 / D1/V1 — TELECOM OUTLET COMPLETE WITH CABLING/, JACKS, CONVENTIONS AS FOLLOWS: D = DATA, V = VOICE, P = POINT-OF-SALE, # = QUANTITY OF CABLES/RJ45 JACKS, EACH
- FLUSH FLOOR TELECOM OUTLET
- TELECOM RACK, 2-POST, 45U, UON
- TELECOM RACK, 4-POST, 45U, UON
- TELECOM CABINET, FLUSH MOUNT
- TELECOM CABINET, SURFACE MOUNT
- AVI — A/V SYSTEM INTERFACE TOUCHPAD, +48" AFF UON
- CLOCK OUTLET
- WALL MOUNT PUBLIC ADDRESS SYSTEM SPEAKER
- BB — DOOR BUZZER
- CEILING MOUNT SPEAKER
- WALL MOUNT SPEAKER
- WAP — WIRELESS ACCESS POINT
- CCTV SYSTEM CAMERA
- VOLUME CONTROL STATION
- TV — A/V SYSTEM SCREEN OUTLET
- MICROPHONE INPUT JACK
- PLYWOOD MOUNTING BACKBOARD, 3/4" THICK, 8'-0" TALL, WIDTH AS DRAWN, WHITE FIRE RETARDANT PAINT FINISH, #6 CU GROUND WIRE
- ER — EQUIPMENT ROOM
- TR — TELECOM ROOM
- CR — CARD READER, +48" AFF UON
- IC — INTERCOMM
- WALL MOUNT BELL
- PB — PUSH BUTTONS

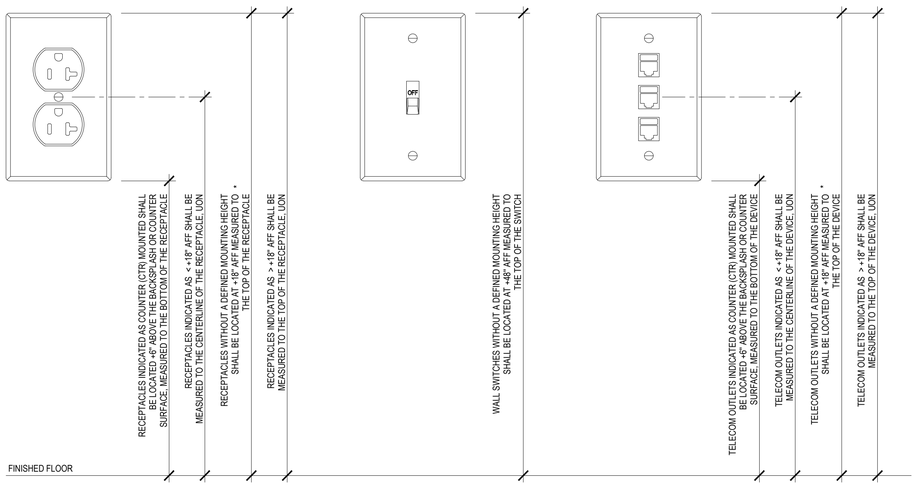
ELECTRICAL DRAWING INDEX

SHEET NUMBER	SHEET TITLE	PERMIT SET 10/22/2021	1 ISSUE REVISION 3 8/29/2023	2	3	4	5
E01	ELECTRICAL INDEX, LEGENDS, AND NOTES	○	○				
E02	ELECTRICAL SPECIFICATIONS	○					
E03	ELECTRICAL PANEL SCHEDULES	○					
E09	ELECTRICAL DEMOLITION PLAN	○					
E10	OVERALL FLOOR PLAN - ELECTRICAL	○					
E20	ELECTRICAL FLOOR PLAN - POWER	○					
E30	ELECTRICAL FLOOR PLAN - LIGHTING	○					
E40	ELECTRICAL FLOOR PLAN - LOW VOLTAGE	○	○				
	TOTAL:	7	2	.	.	.	.

ELECTRICAL SYMBOLS LIST

(NOT ALL SYMBOLS MAY APPEAR IN THESE DRAWINGS)

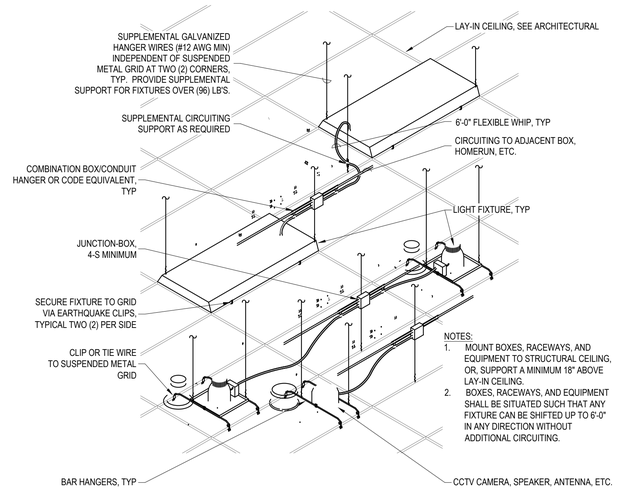
- RECESSED MOUNTED LINEAR
- SURFACE MOUNTED LINEAR
- FLANGED MOUNTED LINEAR
- SUSPENDED MOUNTED LINEAR
- LINEAR STRIP
- WALL MOUNTED LINEAR
- WALL BRACKET
- OPEN DOWNLIGHT, SURFACE OR RECESSED
- RECESSED ADJUSTABLE DOWNLIGHT
- IN-GRADE DOWNLIGHT
- POLE MOUNTED LIGHT
- BOLLARD LIGHT FIXTURE
- TRACK AND TRACK HEAD
- DECORATIVE FIXTURE
- LCS — LIGHTING CONTROL STATION (= WIRELESS)
- EXIT SIGN, SINGLE FACE, CHEVRONS AS INDICATED
- EXIT SIGN, DUAL FACE, CHEVRONS AS INDICATED
- EXIT SIGN, SINGLE FACE, CHEVRONS AS INDICATED, INTEGRAL EMERGENCY LIGHT
- EXIT SIGN, LOW-LEVEL
- SHADING INDICATES WIRING DEVICES ON EMERGENCY POWER SOURCE
- TWIN-HEAD EMERGENCY LIGHT
- LA-1,3,5 — HOMERUN: (6) #12 AWG + (1) #12 AWG GRD, CU, TO PANEL 'LA' CIRCUITS 1, 3, 5 - 3/4"C
- CIRCUITING IN WALL OR ABOVE CEILING
- CIRCUITING IN FLOOR OR BELOW GRADE
- CIRCUITING WITH ISOLATED GROUND CONDUCTOR
- FCU 1 — MECHANICAL/PLUMBING EQUIPMENT DESIGNATION
- PANELBOARD, FLUSH MOUNT
- PANELBOARD, SURFACE MOUNT
- # — POWER/TELECOM RISER
- CTR — COUNTER
- GRD — GROUND
- (R) — RELOCATED
- (X) — EXISTING TO BE REMOVED
- HP — HORSEPOWER
- (E) — EXISTING TO REMAIN
- WP — WEATHER-PROOF
- U/C — UNDERCOUNTER
- SWITCH, SINGLE POLE
- SWITCH, THREE POLE
- DIMMER SWITCH, SINGLE POLE
- DIMMER SWITCH, THREE POLE
- SWITCH, MANUAL MOTOR STARTER
- OCCUPANCY SWITCH, SINGLE POLE, DUAL-TECHNOLOGY, UON
- OC — CEILING MOUNTED OCCUPANCY SWITCH, SINGLE POLE, DUAL-TECHNOLOGY, UON (= WIRELESS)
- DS — CEILING MOUNTED DAYLIGHT SENSOR, 0-10V UON (= WIRELESS)
- CONTROL STATION
- JUNCTION BOX
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, GFCI
- DUPLEX RECEPTACLE, HALF-SWITCHED
- DUPLEX RECEPTACLE, ISOLATED GROUND
- SPECIALTY RECEPTACLE (NEMA/IEC)
- 50% CONTROLLED RECEPTACLE (DUPLEX, DOUBLE DUPLEX, ETC.)
- 100% CONTROLLED RECEPTACLE (DUPLEX, DOUBLE DUPLEX, ETC.)
- DUPLEX RECEPTACLE - CEILING MOUNTED
- FLUSH FLOOR DUPLEX RECEPTACLE
- RECESSED CLOCK RECEPTACLE
- SIGN — ILLUMINATED SIGNAGE
- COMBINATION DISCONNECT/MOTOR STARTER, 30 AMP, SIZE '1' UON
- N — DISCONNECT SWITCH, NON-FUSED, HEAVY-DUTY, 30 AMP, UON
- F — DISCONNECT SWITCH, FUSED, HEAVY DUTY, 30 AMP, UON
- M — CONTACTOR
- PC — PHOTOCELL
- VFD — VARIABLE FREQUENCY DRIVE
- FSD — FIRE-SMOKE DAMPER
- T — DISTRIBUTION TRANSFORMER
- O/H — OVERHEAD
- TYP — TYPICAL
- UON — UNLESS OTHERWISE NOTED
- NL — NIGHT LIGHT (UNSWITCHED)
- FPEN — FUSE PER EQUIPMENT NAMEPLATE
- (E/R) — EXISTING TO BE RELOCATED
- FBO — FURNISHED BY OTHERS



* NOTE:
DEVICES MOUNTED IN EXPOSED CMU BLOCK SHALL BE CENTERED IN THE 3RD COURSE OF BLOCK +/- 20" A.F.F

B / E0.2 DIAGRAM - WIRING DEVICE MOUNTING HEIGHTS

SCALE: NOT TO SCALE



A / E0.2 DIAGRAM - TBAR MOUNTING

SCALE: NOT TO SCALE

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REVISIONS

SHEET TITLE
ELECTRICAL INDEX, LEGENDS, AND NOTES

SHEET NUMBER
E01

Project No. 2102

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A. GENERAL

1. GENERAL CONDITIONS, SPECIAL REQUIREMENTS, OR GENERAL REQUIREMENTS OF THE PROJECT SPECIFICATIONS MANUAL (WHERE PROVIDED) ARE MADE PART OF THIS SPECIFICATION AND HAVE THE SAME FORCE AND EFFECT AS IF COMPLETELY REPRODUCED.
2. DEFINITIONS: THE WORD "WORK" SHALL MEAN LABOR AND ANY INCIDENTAL ITEMS OR SERVICES NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE COMPLETE SYSTEMS NOTED ON THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS. THE WORD "PROVIDE" SHALL MEAN FURNISH, INSTALL, FEED, MAKE FINAL CONNECTIONS, COMMISSION AND LEAVE IN AN APPROVED COMPLETE OPERATING CONDITION.
3. WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE APPLICABLE NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), NFPA 110, AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING AMENDMENTS.
4. OBTAIN AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS REQUIRED FOR THIS WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL INTO THE BUILDING AS INDICATED ON THE DRAWINGS, WITHOUT INTERFERENCE WITH OTHER WORK, AND SHALL MAKE REASONABLE MODIFICATIONS IN THE LAYOUTS NEEDED TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND FOR THE PROPER EXECUTION OF THE WORK.
6. THE WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES INCLUDING CONTRACT DOCUMENTS, SHOP DRAWINGS, AND EXISTING SYSTEMS (WHERE APPLICABLE).
7. DO NOT SCALE DRAWINGS AS THEY ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY ITEMS TO COMPLETE THE WORK ACCORDING TO INDUSTRY STANDARDS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL OUT FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ARRANGEMENT OF EQUIPMENT AND ROUTING OF RACEWAYS INDICATED ON DRAWINGS SHALL BE ROUTED PLUMB AND AT RIGHT ANGLES TO BUILDING STRUCTURE. INSTALLATION OF SYSTEMS MAY REQUIRE MODIFICATION DUE TO UNFORESEEN CONDITIONS.
8. VERIFY ALL SIZES DIMENSIONS, AND CONDITIONS BEFORE STARTING ANY WORK. ANY DEVIATIONS OR ISSUES SHALL BE TRANSMITTED TO THE ARCHITECT FOR REVIEW.
9. CONTRACTOR SHALL SUBMIT A BID BASED ON MANUFACTURER NAMES LISTED UNLESS "OR EQUAL" IS INDICATED. SUBSTITUTION REQUESTS WILL BE REVIEWED BY THE ENGINEER PROVIDED THEY ARE SUBMITTED A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO THE BID DATE. CLOSING ACCEPTABILITY OF SUBSTITUTION WILL BE SOLELY DETERMINED BY THE OWNER.
10. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.
11. EXAMINATION OF BIDDING DOCUMENTS:
    - 11.1. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND, NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT AND SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR THEREIN WHICH HE MAY DISCOVER. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ARCHITECT. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING, NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANOTHER METHOD. IF DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.
    - 11.2. THE COMPANY/CONTRACTOR SUBMITTING THE REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY. FAILURE TO SO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE AS CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.
12. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNERS ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
14. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TEST SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
16. SYSTEMS SHALL BE PROVIDED COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATIONS. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.
17. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORIES (NRTL).
18. IN INSTANCES WHERE THE PROJECT DOES NOT INCLUDE AN ARCHITECT, THE ENGINEER SHALL RECEIVE ALL CORRESPONDENCE AS DIRECTED HEREIN.

B. SUBMITTALS

1. CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR EQUIPMENT AND MATERIALS SPECIFIED. THE ENGINEER SHALL REVIEW SHOP DRAWINGS AND TECHNICAL DATA SHEETS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL IDENTIFY ANY DEVIATIONS IN THE SHOP DRAWINGS FROM THE DESIGN DOCUMENTS.
3. SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS SHALL BE PRE-APPROVED IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT OR MATERIALS WITH OTHER BUILDING TRADES. CONTRACTOR SHALL IDENTIFY AND ANNOTATE REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. CONTRACTOR SHALL ALSO IDENTIFY COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING FEES NECESSARY TO CHANGE PERMIT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES/EQUIPMENT SUBSTITUTIONS.
5. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, IN ELECTRONIC PORTABLE DOCUMENT FORMAT (.PDF) IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR CONTROLLERS, LAMPS, CONDUIT, FITTINGS, TRANSFORMERS AND LIGHTING CONTROLS.
6. CONTRACTORS FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.

D. DRAWINGS

1. CONTRACTOR SHALL MAINTAIN, TWO (2) SETS OF WHITE PRINTS OF DRAWINGS PERTAINING TO THE WORK. ONE (1) SET OF PRINTS SHALL BE KEPT ON SITE AND CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS SHALL BE CAREFULLY NOTED AS CHANGES OR DEVIATIONS ARE MADE.

E. OPERATING AND MAINTENANCE INSTRUCTIONS

1. CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF MANUFACTURERS OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT AND SYSTEM. COPIES SHALL BE COMPILED IN SETS AND PLACED IN A HARD COVER THREE RING BINDER WITH INDEX PAGE AND INDEX TABS. ALL NAME TAG INFORMATION SUCH AS THE MANUFACTURER, TYPE, SIZE, CAPACITY, SERIAL NUMBER, ETC. SHALL BE INCLUDED AS PART OF THE MANUAL.
2. PROVIDE WRITTEN OPERATING INSTRUCTIONS WITH DIAGRAMS FOR ELECTRICAL EQUIPMENT.
3. OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.

PART 2 - PRODUCTS

A. GENERAL

1. PROVIDE EQUIPMENT AS SPECIFIED AND/OR SCHEDULED AND IN ACCORDANCE WITH MANUFACTURERS PUBLISHED INSTALLATION INSTRUCTIONS. EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURERS "OWNERS OPERATING AND MAINTENANCE MANUAL" TROUBLE-FREE.

B. WIRE AND CABLE

1. WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT. CONDUCTOR AMPACITY SHALL DERATED FOR HIGHER AMBIENT INSTALLATIONS.

C. RACEWAYS AND FITTINGS

1. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC, WITH PVC WRAPPED (OR EQUIVALENT PROTECTION) RIGID STEEL ELBOWS AT BENDS AND TRANSITIONS FROM BELOW TO ABOVE GRADE. EMT FITTINGS SHALL BE STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.
2. RGS OR IMC SHALL BE USED IN ALL AREAS SUBJECT TO WEATHER OR MECHANICAL DAMAGE.
3. ALL CIRCUITING SHALL BE CONCEALED. WHERE CONCEALMENT IS IMPRACTICAL, AND WITH THE SPECIFIC APPROVAL FROM THE ARCHITECT, SURFACE RACEWAY AND OUTLETS MAY BE INSTALLED, FINISHED TO MATCH ADJACENT SURFACES.
4. METAL-CLAD (TYPE MC) CABLE MAY BE USED IN THE FOLLOWING LIMITED LOCATIONS:
    - 4.1. 6'-0" MAXIMUM LIGHT FIXTURE WHIPS.
    - 4.2. DEAD-END RUNS TO THE LAST WIRING DEVICE ON A CIRCUIT.
    - 4.3. IN AREAS CONSIDERED "TIGHT" WITHIN MILLWORK AND CASEWORK INSTALLATIONS.
5. TYPE ENT RACEWAY IS NOT ALLOWED.
6. NON-METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.

D. DISTRIBUTION EQUIPMENT

1. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, ETC. SHALL BE FURNISHED BY SQUARE D (SCHNEIDER ELECTRIC), GENERAL ELECTRIC, EATON CUTLER HAMMER, OR SIEMENS. FLOOR MOUNTED EQUIPMENT SHALL INSTALLED ATOP 4" HIGH CONCRETE HOUSEKEEPING PADS.
2. TRANSFORMERS SHALL BE COPPER WOUND, 115° RISE WITH 220°C INSULATION. MOUNT ON RUBBER-IN-SHEAR ISOLATORS. MANUFACTURERS SHALL BE SQUARE D (SCHNEIDER ELECTRIC), GENERAL ELECTRIC, EATON CUTLER HAMMER, OR SIEMENS. INSTALL ATOP 4" HIGH CONCRETE HOUSEKEEPING PAD.
3. PROVIDE ENGRAVED NAMEPLATES MECHANICALLY FASTENED WITH A MINIMUM OF TWO (2) SCREWS ON ALL SWITCHBOARDS, PANELBOARDS DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC. INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED), VOLTAGE, AND SOURCE. EXAMPLE: "PANEL HPA, SERVED FROM SWITCHBOARD 'MSB', 480/277V, 3PH, 4W".
4. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND REJECT OTHERS. INSTALL DISCONNECT SWITCH ON TWO (2) 24" LONG UNITSTRUT CHANNELS DRILLED AND BOLTED TO HVAC UNIT FRAME WHERE POSSIBLE (COORDINATE LOCATION W/HVAC MANUFACTURER TO AVOID WARRANTY INFRACTIONS). SILICONE SEAL ALL HOLES IN UNIT.
5. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMAN OR APPROVED EQUIVALENT. CIRCUIT BREAKERS SHALL BE FULLY RATED IN EXCESS OF AVAILABLE FAULT CURRENT LEVELS. SERIES RATING OF EQUIPMENT IS PROHIBITED.
6. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C.
7. ALL EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER. ALL FUSES PROVIDED SHALL BE OF THE SAME MANUFACTURER.
8. PROVIDE HANDLE TIES OR MULTI-POLE CIRCUIT BREAKERS FOR SIMULTANEOUS OPERATION OF ALL MULTI-WIRE BRANCH CIRCUITS.
9. PROVIDE ARC-FLASH LABELING ON ALL DISTRIBUTION EQUIPMENT.

E. WIRING DEVICES

1. WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES. THE DEVICE PLATES SHALL BE LEXAN OR NYLON UNLESS OTHERWISE NOTED. THE COLOR OF THE DEVICES AND COVERPLATES SHALL BE AS DIRECTED BY THE ARCHITECT.
2. SMOKE-DETECTORS SHALL BE SELF-CONTAINED WITH AUDIBLE ALARM, UL LISTED AND COMPLY WITH NFPA STANDARD 72. INTERCONNECT DETECTORS WITHIN A DWELLING UNIT OR GUESTROOM TO SOUND A COMMON ALARM.
3. ALL 120 VOLT 15- AND 20-AMPERE RECEPTACLES LOCATED IN DWELLING UNITS, GUEST ROOMS AND SUITES, AND CHILD CARE FACILITIES SHALL BE TAMPER-RESISTANT TYPE.
4. LIGHT SWITCHES IN PUBLIC AREAS SHALL BE SPECIFICATION GRADE ROCKER TYPE, UON. LIGHT SWITCHES IN BACK OF HOUSE AREAS SHALL BE SPECIFICATION GRADE TOGGLE TYPE, UON.

F. BOXES

1. FLUSH FLOOR OUTLETS SHALL BE CAST IRON, QUANTITY OF GANGS AND CONDUIT ENTRIES AS REQUIRED. PROVIDE BRASS COVERPLATE FOR THE OUTLET TYPES INDICATED. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
2. BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH REQUIRED EXTENSIONS AND PLASTER OR TILE RINGS.

G. LIGHT FIXTURES

1. RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
2. FIXTURES INDICATED AS BEING EMERGENCY SHALL BE PROVIDED WITH BATTERY POWERED INVERTER UNIT MOUNTED IN, OR ADJACENT TO, FIXTURE. PROVIDE UNIT WITH FULLY AUTOMATIC TWO-RATE CHARGER, NICKEL CADMIUM BATTERY, AC "ON" PILOT LIGHT, AND TEST SWITCH. DESIGN AND WIRE UNIT TO AUTOMATICALLY TRANSFER TO BATTERY SUPPLY UPON LOSS OF NORMAL AC POWER AND TO OPERATE ONE LAMP AT 1300 LUMENS MINIMUM FOR LINEAR LAMPS, 700 LUMENS FOR COMPACT LAMPS FOR A MINIMUM OF 90-MINUTES. LED LUMEN LEVELS VARY, AND SHALL BE AS SPECIFIED. ALL EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO AN UNSWITCHED SOURCE. IN LOCATIONS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, EMERGENCY LIGHTING MAY BE CONNECTED TO THE EMERGENCY LEG OF A GENERATOR POWER SYSTEM IN LIEU OF BATTERY POWER.

PART 3 - EXECUTION

A. GENERAL

1. FINAL CONNECTIONS AND ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED INCLUDING ALL RACEWAYS, BOXES, WIRING, WIRING DEVICES, ETC.
2. CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC. AS REQUIRED FOR MOTOR CONTROL. EACH STARTER SHALL CONTAIN 120V CONTROL TRANSFORMER, LED PILOT LIGHT, AND PUSHBUTTONS OR SELECTOR SWITCH AS REQUIRED, IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED. REFER TO CONTROL DRAWINGS AND CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
3. EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT. STUB CONDUIT OUT 6" INTO AN ACCESSIBLE AREA. CAP OPEN ENDS NOT TERMINATED IN A JUNCTION BOX.
4. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
5. RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS AND DEVICES WITH ARCHITECTURAL MILLWORK DRAWINGS AND INTERIOR ELEVATIONS.
6. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH ARC-FAULT, GROUND FAULT, OR DIMMED CIRCUIT.
7. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'-0" OF ALL MECHANICAL, MOTORIZED, OR REFRIGERATION EQUIPMENT.
8. WHERE MECHANICAL EQUIPMENT IS INSTALLED ABOVE A GYPSUM BOARD CEILING REQUIRING ACCESS THROUGH AN ACCESS PANEL, PROVIDE A RECEPTACLE, SWITCH, AND LIGHT IN THE CEILING SPACE AT THE ACCESS LOCATION.
9. RECESSED LIGHT FIXTURES INSTALLED IN GYPSUM BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO THE CEILING MATERIAL.
10. MULTI-BALLSTED OR DRIVER FLUORESCENT OR LED FIXTURES SHALL BE DUAL-SWITCHED UNLESS NOTED OTHERWISE.
11. LIGHT FIXTURES RECESSED IN T-BAR CEILING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM WITH A MINIMUM OF TWO (2) #12 HANGAR WIRES UP TO STRUCTURE. SECURE HANGAR WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO (2) SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.
12. CONTRACTOR SHALL REFER TO FOOD SERVICE DRAWINGS FOR EXACT LOCATIONS AND ADDITIONAL ELECTRICAL REQUIREMENTS. PROVIDE JUNCTION BOXES, RECEPTACLES, CONNECTIONS, CONDUITS (TO INCLUDE SODA AND LIQUOR DISPENSING SYSTEMS), WIRE, INTERLOCKS, CONTROLS, ETC. AS REQUIRED BY THE FOOD SERVICE EQUIPMENT SUPPLIER.
13. SEE DIVISION 23 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. PROVIDE FUSES OR HACR-TYPE CIRCUIT BREAKERS FOR AIR CONDITIONING EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURERS NAMEPLATE. WHERE FACTORY-PROVIDED DISCONNECT SWITCHES ARE UTILIZED, THEY SHALL BE RATED TO EXCEED THE AVAILABLE FAULT CURRENT AT THE EQUIPMENT.
14. HVAC CONTROLS: PROVIDE LINE VOLTAGE WIRING, RACEWAYS, AND POWER CONNECTIONS AS REQUIRED TO ACCOMMODATE HVAC CONTROL SYSTEMS. COORDINATE REQUIREMENTS WITH TEMPERATURE CONTROL, MECHANICAL, PLUMBING, AND GENERAL CONTRACTORS PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT. LOW VOLTAGE HVAC CONTROL RACEWAY SYSTEMS SHALL BE PER THE TEMPERATURE CONTROLS CONTRACTOR. THESE DOCUMENTS DO NOT INDICATE ALL CONNECTION POINTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
15. PANEL DIRECTORIES SHALL BE REMOVABLE. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
16. PROVIDE DYMO-TAPE TAG PRINTED LABEL INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
17. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE OF FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
18. PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS FOR FLOOR MOUNTED EQUIPMENT SUCH AS SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC. COORDINATE WITH DISTRIBUTION EQUIPMENT TO ENSURE ALL SWITCH AND CIRCUIT BREAKER HANDLES ARE BELOW 6'-6" TO THE HIGHEST POINT.
19. CONTRACTOR SHALL PROVIDE NEW UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF THIS PROJECT.
20. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING AND/OR ROTATING EQUIPMENT SHALL BE MADE WITH SEAL-TITE FLEXIBLE FLEXIBLE CONDUIT WITH APPROVED FITTINGS (3"0" MAXIMUM LENGTH). DO NOT SECURE CONDUITS OR DEVICES TO DUCTWORK OR OTHER MECHANICAL EQUIPMENT.
21. DEVICES INSTALLED IN FIRE-RATED WALLS SHALL HAVE NELSON FSP PUTTY PADS INSTALLED TO MAINTAIN FIRE INTEGRITY - ONE PAD PER HOUR OF RATING. CONDUIT PENETRATING FIRE-RATED WALLS SHALL COMPLY WITH THE REQUIREMENTS OF U.L. SYSTEM 147A FOR SINGLE CONDUITS OR U.L. SYSTEM 322 FOR MULTIPLE CONDUITS. DEVICES INSTALLED IN SOUND-RATED WALLS SHALL HAVE NELSON FSP (STC 54) SOUND RATED PUTTY PADS INSTALLED TO MAINTAIN THE SOUND INTEGRITY OF THE WALL.
22. RECEPTACLES INSTALLED OUTSIDE, ON THE BUILDING EXTERIOR OR ROOF, IN KITCHENS OR WITHIN 6'-0" MEASURED HORIZONTALLY FROM A SINK OR DRINKING FOUNTAIN UNLESS LOCATED BELOW A COUNTER OR OTHERWISE PROTECTED SHALL BE GFCI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
23. COORDINATE THE LOCATION OF LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. UNLESS VERIFIED IN WRITING THE REFLECTED CEILING PLAN LOCATIONS SHALL GOVERN.
24. COORDINATE THE LOCATION OF WALL MOUNTED EQUIPMENT WITH THE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS. UNLESS OTHERWISE VERIFIED IN WRITING THE ARCHITECTURAL DRAWINGS SHALL GOVERN.

PART 4 - DESIGN-BUILD FIRE ALARM AND DETECTION SYSTEM PERFORMANCE CRITERIA

A. GENERAL

1. CONTRACTOR SHALL PROVIDE, INSTALL, TEST, AND COMMISSION A FULLY OPERATIONAL, APPROVED, FIRE ALARM AND DETECTION SYSTEM.
2. FIRE ALARM AND DETECTION SYSTEM SHALL BE PROVIDED BY THIS CONTRACTOR, PERFORMED UNDER A DESIGN-BUILD DELIVERY METHOD.
3. FIRE ALARM AND DETECTION SYSTEM SHALL BE IN FULL COMPLIANCE WITH ALL LOCAL, STATE, FEDERAL, AND ADA REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE SUBMITTALS. SUBMITTAL REQUIREMENTS:
    - 4.1. SUBMITTALS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION PRIOR TO SUBMITTING THEM TO THE ARCHITECT.
    - 4.2. SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WITH THE FOLLOWING QUALIFICATIONS:
        - 4.2.1. TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE-ALARM SYSTEM DESIGN.
        - 4.2.2. NICET-CERTIFIED, FIRE ALARM TECHNICIAN; LEVEL III MINIMUM.
        - 4.2.3. LICENSED OR CERTIFIED BY AUTHORITIES HAVING JURISDICTION.
    - 4.3. DELEGATED-DESIGN: FOR NOTIFICATION APPLIANCES AND SMOKE AND HEAT DETECTORS, IN ADDITION TO THE SUBMITTALS LISTED ABOVE, INDICATE COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
        - 4.3.1. DRAWINGS SHOWING THE LOCATION OF EACH NOTIFICATION APPLIANCE AND SMOKE AND HEAT DETECTOR, RATINGS OF EACH, AND INSTALLATION DETAILS AS NEEDED TO COMPLY WITH LISTING CONDITIONS OF THE DEVICE.
        - 4.3.2. DESIGN CALCULATIONS: CALCULATE REQUIREMENTS FOR SELECTING THE SPACING AND SENSITIVITY OF DETECTION, COMPLYING WITH NFPA 72. CALCULATE SPACING AND INTENSITIES FOR STROBE SIGNALS AND SOUND-PRESSURE LEVELS FOR AUDIBLE APPLIANCES.
        - 4.3.3. INDICATED AUDIBLE APPLIANCES REQUIRED TO PRODUCE SQUARE WAVE SIGNAL PER NFPA 72.
5. EXISTING FIRE ALARM EQUIPMENT (WHERE APPLICABLE) SHALL BE MAINTAINED AND FULLY OPERATIONAL UNTIL NEW EQUIPMENT PROVIDED UNDER THIS PROJECT HAS BEEN TESTED AND ACCEPTED. NEW COMPONENTS SHALL BE COMPATIBLE WITH, AND OPERATE AS AN EXTENSION OF, EXISTING SYSTEM. PROVIDE SYSTEM MANUFACTURERS CERTIFICATION THAT ALL COMPONENTS PROVIDED HAVE BEEN TESTED AS, AND WILL OPERATE AS, A SYSTEM.
6. WARRANTY: CONTRACTOR SHALL AGREE TO REPAIR OR REPLACE FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS THAT FAIL IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
7. COMPLY WITH NFPA 72, NFPA 101, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR INSTALLATION AND TESTING OF FIRE-ALARM EQUIPMENT. INSTALL ALL ELECTRICAL WIRING TO COMPLY WITH REQUIREMENTS IN NFPA 70 INCLUDING, BUT NOT LIMITED TO, ARTICLE 760, "FIRE ALARM SYSTEMS."

B. SYSTEM DESCRIPTION

1. NONCODED, UL-CERTIFIED ADDRESSABLE SYSTEM, WITH MULTIPLEXED SIGNAL TRANSMISSION AND VOICE/STROBE EVACUATION MEETING AUDIBILITY AND INTELLIGIBLE REQUIREMENTS.
2. AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS.
3. ALL COMPONENTS PROVIDED SHALL BE LISTED FOR USE WITH THE SELECTED SYSTEM.
4. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

C. OPERATIONAL DESCRIPTION

1. NOTE: THE FOLLOWING DESCRIPTIONS REPRESENT A MASTER LIST. NOT ALL DEVICES, SYSTEMS, AND FUNCTIONS LISTED HEREIN MAY BE REPRESENTED ON THIS PROJECT. APPLICABILITY SHALL BE DETERMINED BY QUALIFIED SYSTEM DESIGN PROFESSIONAL.
2. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND SYSTEMS:
    - 2.1. MANUAL STATIONS.
    - 2.2. HEAT DETECTORS.
    - 2.3. FLAME DETECTORS.
    - 2.4. SMOKE DETECTORS.
    - 2.5. DUCT SMOKE DETECTORS.
    - 2.6. AIR-SAMPLING SMOKE-DETECTION SYSTEM (VESDA).
    - 2.7. CARBON MONOXIDE DETECTORS.
    - 2.8. COMBUSTIBLE GAS DETECTORS.
    - 2.9. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.
    - 2.10. PREACTION SYSTEM.
    - 2.11. FIRE-EXTINGUISHING SYSTEM OPERATION.
    - 2.12. FIRE STANDPIPE SYSTEM.
    - 2.13. DRY SYSTEM PRESSURE FLOW SWITCH.
    - 2.14. FIRE PUMP RUNNING.
3. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
    - 3.1. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
    - 3.2. IDENTIFY ALARM AND SPECIFIC INITIATING DEVICE AT FIRE-ALARM CONTROL UNIT.
    - 3.3. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
    - 3.4. UNLOCK ELECTRIC DOOR LOCKS IN DESIGNATED EGRESS PATHS.
    - 3.5. RELEASE FIRE AND SMOKE DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS.
    - 3.6. ACTIVATE VOICE/ALARM COMMUNICATION SYSTEM.
    - 3.7. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE.
    - 3.8. ACTIVATE SMOKE-CONTROL SYSTEM (SMOKE MANAGEMENT) AT FIREFIGHTERS' SMOKE-CONTROL SYSTEM PANEL.
    - 3.9. ACTIVATE STAIRWELL AND ELEVATOR-SHAFT PRESSURIZATION SYSTEMS.
    - 3.10. CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS.
    - 3.11. ACTIVATE PREACTION SYSTEM.
    - 3.12. RECALL ELEVATORS TO PRIMARY OR ALTERNATE RECALL FLOORS.
    - 3.13. ACTIVATE ELEVATOR POWER SHUNT TRIP.
    - 3.14. ACTIVATE EMERGENCY LIGHTING CONTROL.
    - 3.15. ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES.
    - 3.16. RECORD EVENTS IN THE SYSTEM MEMORY.
    - 3.17. RECORD EVENTS BY THE SYSTEM PRINTER.
    - 3.18. INDICATE DEVICE IN ALARM ON THE GRAPHIC ANNUNCIATOR.
4. SUPERVISORY SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS:
    - 4.1. VALVE SUPERVISORY SWITCH.
    - 4.2. HIGH- OR LOW-AIR-PRESSURE SWITCH OF A DRY-PIPE OR PREACTION SPRINKLER SYSTEM.
    - 4.3. ALERT AND ACTION SIGNALS OF AIR-SAMPLING DETECTOR SYSTEM.
    - 4.4. ELEVATOR SHUNT-TRIP SUPERVISION.
    - 4.5. FIRE PUMP RUNNING.
    - 4.6. FIRE-PUMP LOSS OF POWER.
    - 4.7. FIRE-PUMP POWER PHASE REVERSAL.
    - 4.8. INDEPENDENT FIRE-DETECTION AND -SUPPRESSION SYSTEMS.
    - 4.9. USER DISABLING OF ZONES OR INDIVIDUAL DEVICES.
    - 4.10. LOSS OF COMMUNICATION WITH ANY PANEL ON THE NETWORK.
5. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS:
    - 5.1. OPEN CIRCUITS, SHORTS, AND GROUNDS IN DESIGNATED CIRCUITS.
    - 5.2. OPENING, TAMPERING WITH, OR REMOVING ALARM-INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES.
    - 5.3. LOSS OF COMMUNICATION WITH ANY ADDRESSABLE SENSOR, INPUT MODULE, RELAY, CONTROL MODULE, REMOTE ANNUNCIATOR, PRINTER INTERFACE, OR ETHERNET MODULE.
    - 5.4. LOSS OF PRIMARY POWER AT FIRE-ALARM CONTROL UNIT.
    - 5.5. GROUND OR A SINGLE BREAK IN INTERNAL CIRCUITS OF FIRE-ALARM CONTROL UNIT.
    - 5.6. ABNORMAL AC VOLTAGE AT FIRE-ALARM CONTROL UNIT.
    - 5.7. BREAK IN STANDBY BATTERY CIRCUITRY.
    - 5.8. FAILURE OF BATTERY CHARGING.
    - 5.9. ABNORMAL POSITION OF ANY SWITCH AT FIRE-ALARM CONTROL UNIT OR ANNUNCIATOR.
    - 5.10. VOICE SIGNAL AMPLIFIER FAILURE.
    - 5.11. HOSE CABINET DOOR OPEN.
6. SYSTEM SUPERVISORY SIGNAL ACTIONS:
    - 6.1. INITIATE NOTIFICATION APPLIANCES.
    - 6.2. IDENTIFY SPECIFIC DEVICE INITIATING THE EVENT AT FIRE-ALARM CONTROL UNIT.
    - 6.3. RECORD THE EVENT ON SYSTEM PRINTER.
    - 6.4. AFTER A TIME DELAY OF 200 SECONDS (OR PER AHJ REQUIREMENTS), TRANSMIT A TROUBLE OR SUPERVISORY SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
    - 6.5. TRANSMIT SYSTEM STATUS TO BUILDING MANAGEMENT SYSTEM.
    - 6.6. DISPLAY SYSTEM STATUS ON GRAPHIC ANNUNCIATOR.

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10/24/2021

DATE
10.22.21

REVISIONS

SHEET TITLE
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E02

Project No. 2102

PANELBOARD SCHEDULE: PANEL 'P1B' (EXISTING)

120/208 VOLTAGE | 3 PHASE | 4 WIRE | MAIN FUSE | PANEL LOCATION: GYM STORAGE
225 AMP MAIN BUS | MAIN BREAKER | FEEDER CABLE: EXISTING
1 NEMA ENCLOSURE | X MAIN LUGS | SOURCE: EXISTING
(E) AIC RATING | 200% NEUTRAL | SUB-FEED LUGS | MOUNT: X SURFACE
ISOLATED GRD BUS | SUB-FEED BREAKER | FLUSH
COPPER BUSSING | SOLID NEUTRAL

CIRCUIT NUMBER	SERVICE	VA LOAD A	VA LOAD B	VA LOAD C	LOAD TYPE	C.B. TRIP	C.B. POLE	C.B TRIP	C.B POLE	LOAD TYPE	VA LOAD A	VA LOAD B	VA LOAD C	SERVICE	CIRCUIT NUMBER
1	(E) LOAD	1000			R	20	1	20	1	R	1000			(E) LOAD	2
3	(E) LOAD		1000		R	20	1	20	1	R		1000		(E) LOAD	4
5	(E) LOAD			1000	R	20	1	20	1	R			1000	(E) LOAD	6
7	(E) LOAD	1000			R	20	1	20	1	R	1000			(E) LOAD	8
9	(E) LOAD		1000		R	20	1	20	1	R		1000		(E) LOAD	10
11	(E) LOAD			1000	R	20	2	20	1	R			1000	(E) LOAD	12
13	(E) LOAD	1000			R	-	-	20	1	R	1000			(E) LOAD	14
15	(E) LOAD		1500		R	30	2	30	2	R		1000		(E) LOAD	16
17	(E) LOAD			1500	R	-	-	-	-	R			1000	(E) LOAD	18
19	(E) LOAD	1000			R	20	1	20	1	R	1000			(E) LOAD	20
21	(E) LOAD		1000		R	20	1	20	1	R		1000		(E) LOAD	22
23	(E) LOAD			1000	R	20	1	20	1	R			1000	(E) LOAD	24
25	**(N) PANEL 'L1BA'**					**60**	**3**	20	1	R	1000			(E) LOAD	26
1 2 **27**	**"**					**-**	**-**	20	1	R		1000		(E) LOAD	28
29	**"**					**-**	**-**	20	1	R			1000	(E) LOAD	30
31	(E) LOAD	1000			R	20	1	20	1	R	1000			(E) LOAD	32
33	(E) LOAD		1000		R	20	1	20	1	R		1000		(E) LOAD	34
35	**(E) LOAD**			**1000**	**R**	**20**	**1**	20	1	R			1000	(E) LOAD	36
		5000	5500	5500							6000	6000	6000		

CONNECTED VA/PH (LESS FEED THRU & SUB FEED) A - 11000 B - 11500 C- 11500
CONNECTED VA/PH FROM FEED THRU AND SUB FEED A - B - C-
TOTAL CONNECTED VA/PH A - 11000 B - 11500 C- 11500

LOAD TYPE	CODE DEMAND REQUIREMENTS	CONNECTED VA THIS PANEL	CONNECTED VA SUB PNLS	CONNECTED VA TOTAL	DEMAND VA	MIN. CODE VA (1.25 x CONT.) (NEC 210.19 & 215.2)
LIGHTING (NEC 220.42)	125%	0	0	0	0	0
RECEPTACLES (NEC 220.44)	1st 10,000VA + 1/2 x REMAINING	34000	2880	36880	23440	23440
LARGEST MOTOR (NEC 430.24)	1.25 x LARGEST FLA	0	0	0	0	0
REMAINING MOTORS (NEC 430.24)	100% REMAINING MOTORS	0	0	0	0	0
HEATING (NEC 220.51)	100%	0	0	0	0	0
KITCHEN EQUIPMENT (NEC 220.56)	VARIES (SEE CODE SECTION)	0	0	0	0	0
WATER HEATER (NEC 210.19 & 215.2)	100%	0	0	0	0	0
MISC. (NEC 210.19 & 215.2)	100%	0	3920	3920	3920	3920
SPARE	0 x CODE MIN.VA					0
TOTAL LOADS		34000	6800	40800	27360	27360
SIZING LOAD			***76*** *AMPS*			

PANELBOARD SCHEDULE: PANEL 'P1BA' (NEW)

120/208 VOLTAGE | 3 PHASE | 4 WIRE | MAIN FUSE | PANEL LOCATION: GYM STORAGE
100 AMP MAIN BUS | MAIN BREAKER | FEEDER CABLE: EXISTING
1 NEMA ENCLOSURE | X MAIN LUGS | SOURCE: EXISTING
10K AIC RATING | 200% NEUTRAL | SUB-FEED LUGS | MOUNT: X SURFACE
ISOLATED GRD BUS | SUB-FEED BREAKER | FLUSH
COPPER BUSSING | SOLID NEUTRAL

CIRCUIT NUMBER	SERVICE	VA LOAD A	VA LOAD B	VA LOAD C	LOAD TYPE	C.B. TRIP	C.B. POLE	C.B TRIP	C.B POLE	LOAD TYPE	VA LOAD A	VA LOAD B	VA LOAD C	SERVICE	CIRCUIT NUMBER
1	MENS LOCKER REC.	720			R	20	1	20	1	MI	1000			CHANGING RMS SWIMSUIT DRYER	2
3	MENS LOCKER SWIMSUIT DRYER		960		MI	20	1	20	1	R		360		CHANGING RM 5 REC.	4
5	WOMENS LOCKER REC.			720	R	20	1	20	1	R			720	CHANGING RM 3, 4 REC.	6
7	WOMENS LOCKER SWIMSUIT DRYER	960			MI	20	1	20	1	R	360			CHANGING RM 1, 2 REC.	8
9	DRINKING FOUNTIAN		1000		MI	20	1							SPACE	10
11	SPACE													SPACE	12
13	SPACE													SPACE	14
15	SPACE													SPACE	16
17	SPACE													SPACE	18
19	SPARE					20	1	20	1					SPARE	20
21	SPARE					20	1	20	1					SPARE	22
23	SPARE					20	1	20	1					SPARE	24
		1680	1960	720							1360	360	720		

CONNECTED VA/PH (LESS FEED THRU & SUB FEED) A - 3040 B - 2320 C- 1440
CONNECTED VA/PH FROM FEED THRU AND SUB FEED A - B - C-
TOTAL CONNECTED VA/PH A - 3040 B - 2320 C- 1440

LOAD TYPE	CODE DEMAND REQUIREMENTS	CONNECTED VA THIS PANEL	CONNECTED VA SUB PNLS	CONNECTED VA TOTAL	DEMAND VA	MIN. CODE VA (1.25 x CONT.) (NEC 210.19 & 215.2)
LIGHTING (NEC 220.42)	125%	0		0	0	0
RECEPTACLES (NEC 220.44)	1st 10,000VA + 1/2 x REMAINING	2880		2880	2880	2880
LARGEST MOTOR (NEC 430.24)	1.25 x LARGEST FLA	0		0	0	0
REMAINING MOTORS (NEC 430.24)	100% REMAINING MOTORS	0		0	0	0
HEATING (NEC 220.51)	100%	0		0	0	0
KITCHEN EQUIPMENT (NEC 220.56)	VARIES (SEE CODE SECTION)	0		0	0	0
WATER HEATER (NEC 210.19 & 215.2)	100%	0		0	0	0
MISC. (NEC 210.19 & 215.2)	100%	3920		3920	3920	3920
SPARE	0 x CODE MIN.VA					0
TOTAL LOADS		6800	0	6800	6800	6800
SIZING LOAD			***19*** *AMPS*			

PANELBOARD SCHEDULE: PANEL 'EM1' (EXISTING)

277/480 VOLTAGE | 3 PHASE | 4 WIRE | MAIN FUSE | PANEL LOCATION: GYM STORAGE
100 AMP MAIN BUS | MAIN BREAKER | FEEDER CABLE: EXISTING
1 NEMA ENCLOSURE | X MAIN LUGS | SOURCE: EXISTING
(E) AIC RATING | 200% NEUTRAL | SUB-FEED LUGS | MOUNT: X SURFACE
ISOLATED GRD BUS | SUB-FEED BREAKER | FLUSH
COPPER BUSSING | SOLID NEUTRAL

CIRCUIT NUMBER	SERVICE	VA LOAD A	VA LOAD B	VA LOAD C	LOAD TYPE	C.B. TRIP	C.B. POLE	C.B TRIP	C.B POLE	LOAD TYPE	VA LOAD A	VA LOAD B	VA LOAD C	SERVICE	CIRCUIT NUMBER
1	(E) EMERGENCY LIGHTING	2000			L	20	1	-						SPACE	2
3	(E) EMERGENCY LIGHTING		2000		L	20	1	15	1	L		1500		(E) EMERGENCY LIGHTING	4
1 **5**	**EMERGENCY LIGHTING**			**884**	**L**	**20**	**1**	-						SPACE	6
7	(E) EMERGENCY LIGHTING	1500			L	15	1	15	1	L	1500			(E) EMERGENCY LIGHTING	8
9	SPACE					-		-						SPACE	10
11	(E) EMERGENCY LIGHTING			1500	L	15	1	15	1	L			1500	(E) EMERGENCY LIGHTING	12
13	SPACE					-	-	-						SPACE	14
15	(E) EMERGENCY LIGHTING		1500		L	15	1	15	1	L		1500		(E) EMERGENCY LIGHTING	16
17	SPACE					-	-	-						SPACE	18
19	(E) EMERGENCY LIGHTING	1500			L	15	1	15	1	L	1500			(E) EMERGENCY LIGHTING	20
		5000	3500	2384							3000	3000	1500		

CONNECTED VA/PH (LESS FEED THRU & SUB FEED) A - 8000 B - 6500 C- 3884
CONNECTED VA/PH FROM FEED THRU AND SUB FEED A - B - C-
TOTAL CONNECTED VA/PH A - 8000 B - 6500 C- 3884

LOAD TYPE	CODE DEMAND REQUIREMENTS	CONNECTED VA THIS PANEL	CONNECTED VA SUB PNLS	CONNECTED VA TOTAL	DEMAND VA	MIN. CODE VA (1.25 x CONT.) (NEC 210.19 & 215.2)
LIGHTING (NEC 220.42)	125%	18384		18384	18384	22980
RECEPTACLES (NEC 220.44)	1st 10,000VA + 1/2 x REMAINING	0		0	0	0
LARGEST MOTOR (NEC 430.24)	1.25 x LARGEST FLA	0		0	0	0
REMAINING MOTORS (NEC 430.24)	100% REMAINING MOTORS	0		0	0	0
HEATING (NEC 220.51)	100%	0		0	0	0
KITCHEN EQUIPMENT (NEC 220.56)	VARIES (SEE CODE SECTION)	0		0	0	0
WATER HEATER (NEC 210.19 & 215.2)	100%	0		0	0	0
MISC. (NEC 210.19 & 215.2)	100%	0		0	0	0
SPARE	0 x CODE MIN.VA					0
TOTAL LOADS		18384	0	18384	18384	22980
SIZING LOAD			***28*** *AMPS*			

WORK NOTES: 1 2

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING DISTRIBUTION EQUIPMENT. MATCH EXISTING MANUFACTURER AND AIC RATING.
2. EXISTING BREAKERS SHALL BE RELOCATED WITH-IN PANEL AS NECESSARY TO ACCOMMODATE NEW BREAKER.

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COLORADO LICENSED
DAVID R. SMITH
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10/24/2021

DATE
10.22.21

REVISIONS

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER
E03

Project No. 2102

GENERAL NOTES:

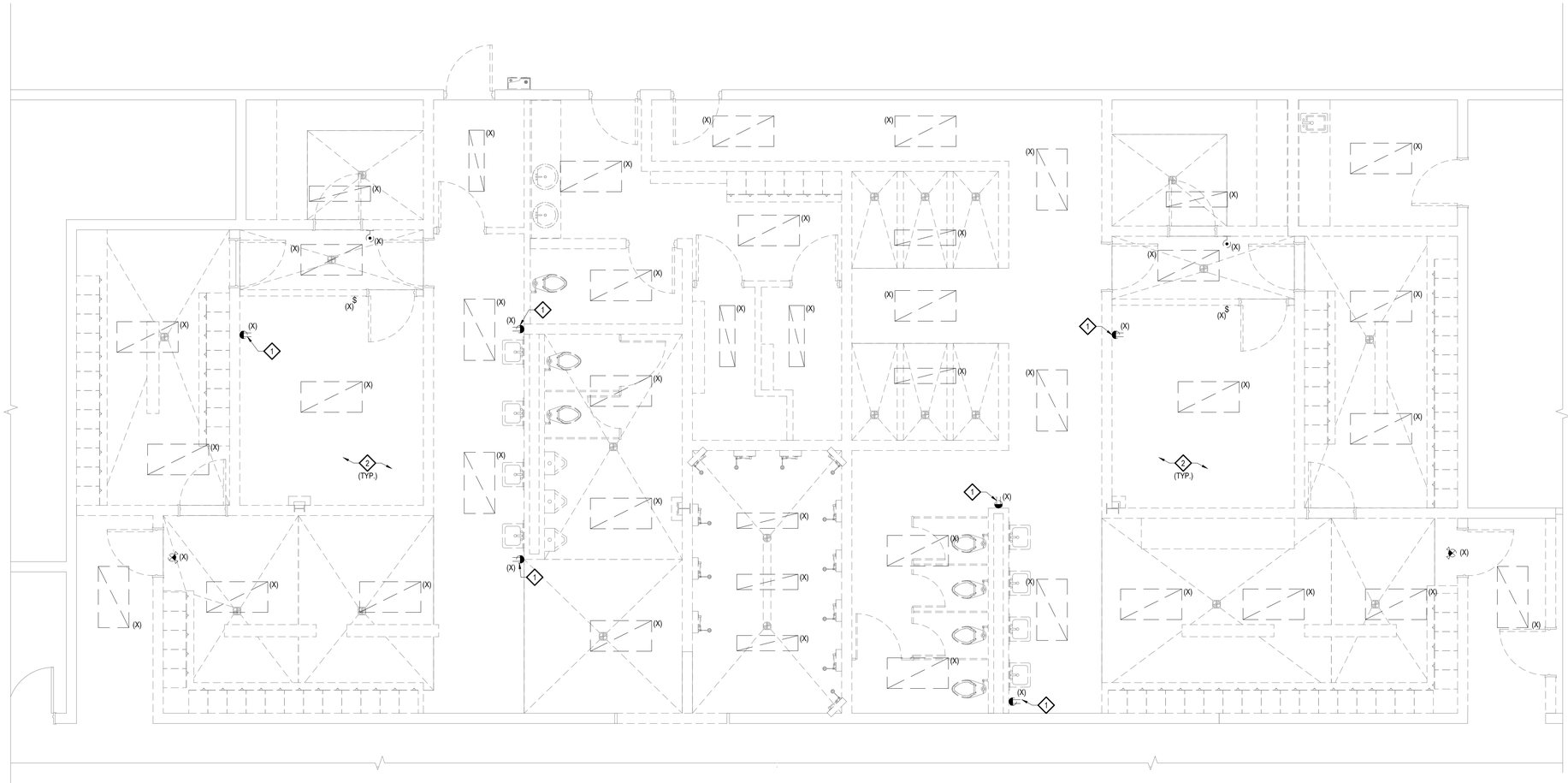
1. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ENGINEER AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS. EXISTING CONDITIONS TAKEN FROM EXISTING DESIGN DOCUMENTS AND FIELD SURVEYS. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED.

2. CONTRACTOR SHALL PROVIDE NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, JUNCTION BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUIT TO SOURCE.

DEMOLITION NOTES: ◇

1. PROVIDE COMPLETE ELECTRICAL DEMOLITION OF EXISTING RECEPTACLES. REMOVE CABLING AND CONDUIT (IF ANY) BACK TO SOURCE. ENSURE CONTINUITY TO ANY DEVICES REMAINING ON THIS CIRCUIT.

2. PROVIDE COMPLETE ELECTRICAL DEMOLITION OF EXISTING LIGHTING. RETAIN UNSWITCHED NORMAL POWER CIRCUIT AND EMERGENCY CIRCUIT FOR RECONNECTION UNDER NEW WORK. EXISTING CONDUITS REMOVED FROM SERVICE IN BELOW-SLAB LOCATIONS MAY BE ABANDONED. REMOVE ALL WIRE FROM ABANDONED RACEWAYS. CONTRACTOR SHALL ENSURE CONTINUITY OF EXISTING CIRCUITING PASSING THROUGH DEMOLITION AREAS. EXTEND AND/OR RELOCATE AS NECESSARY. SHIFT AND/OR RELOCATE EXISTING EQUIPMENT AS NECESSARY TO ACCOMMODATE NEW WORK.



1 / E09 ELECTRICAL DEMOLITION PLAN

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

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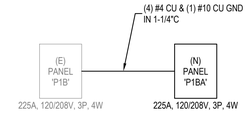
SHEET TITLE
ELECTRICAL DEMOLITION PLAN

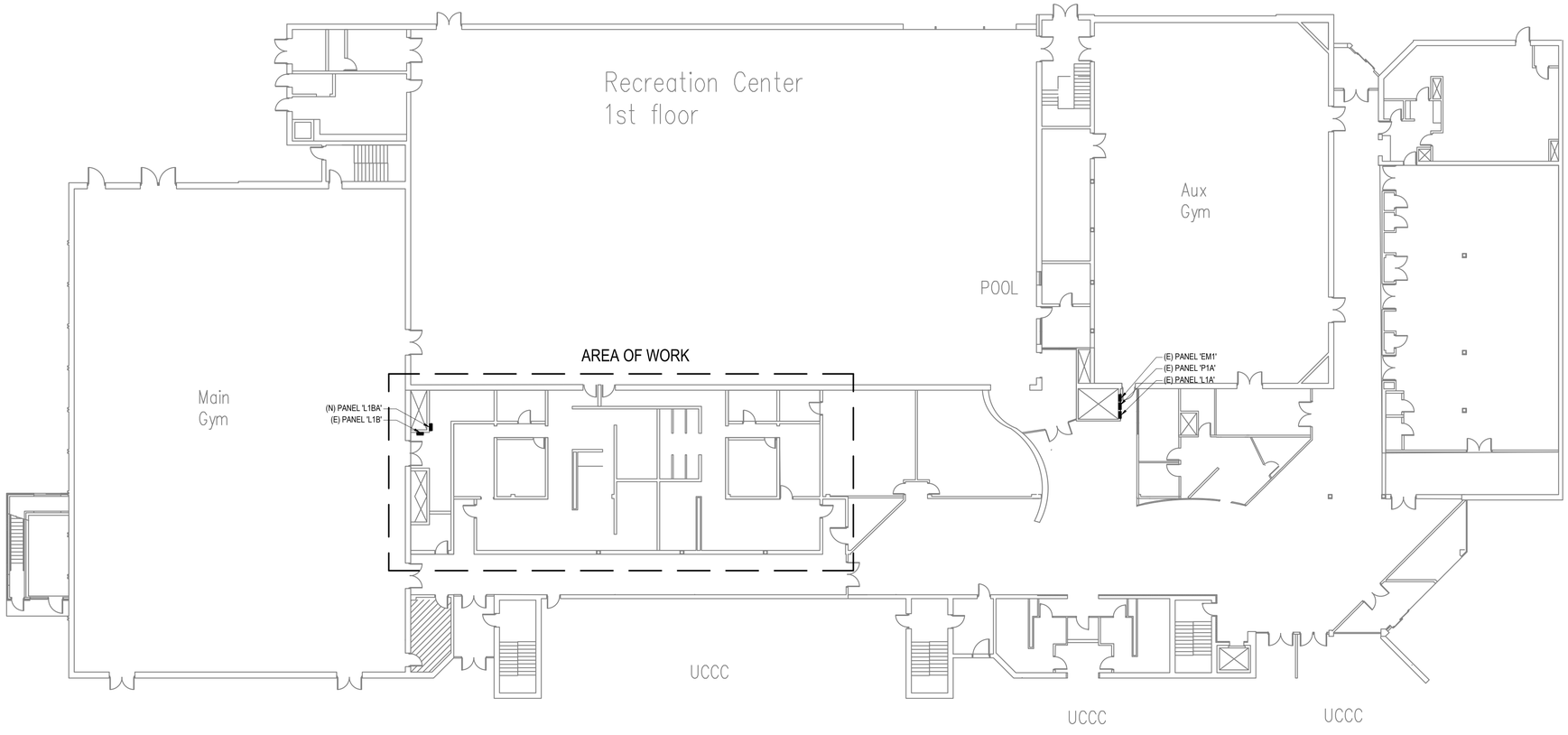
SHEET NUMBER
E09

Project No. 2102



2 E10 PARTIAL SINGLE LINE

SCALE: NTS



1 E10 OVERALL FLOOR PLAN - ELECTRICAL

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

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10.22.21

REVISIONS

SHEET TITLE
OVERALL FLOOR PLAN - ELECTRICAL

SHEET NUMBER
E10

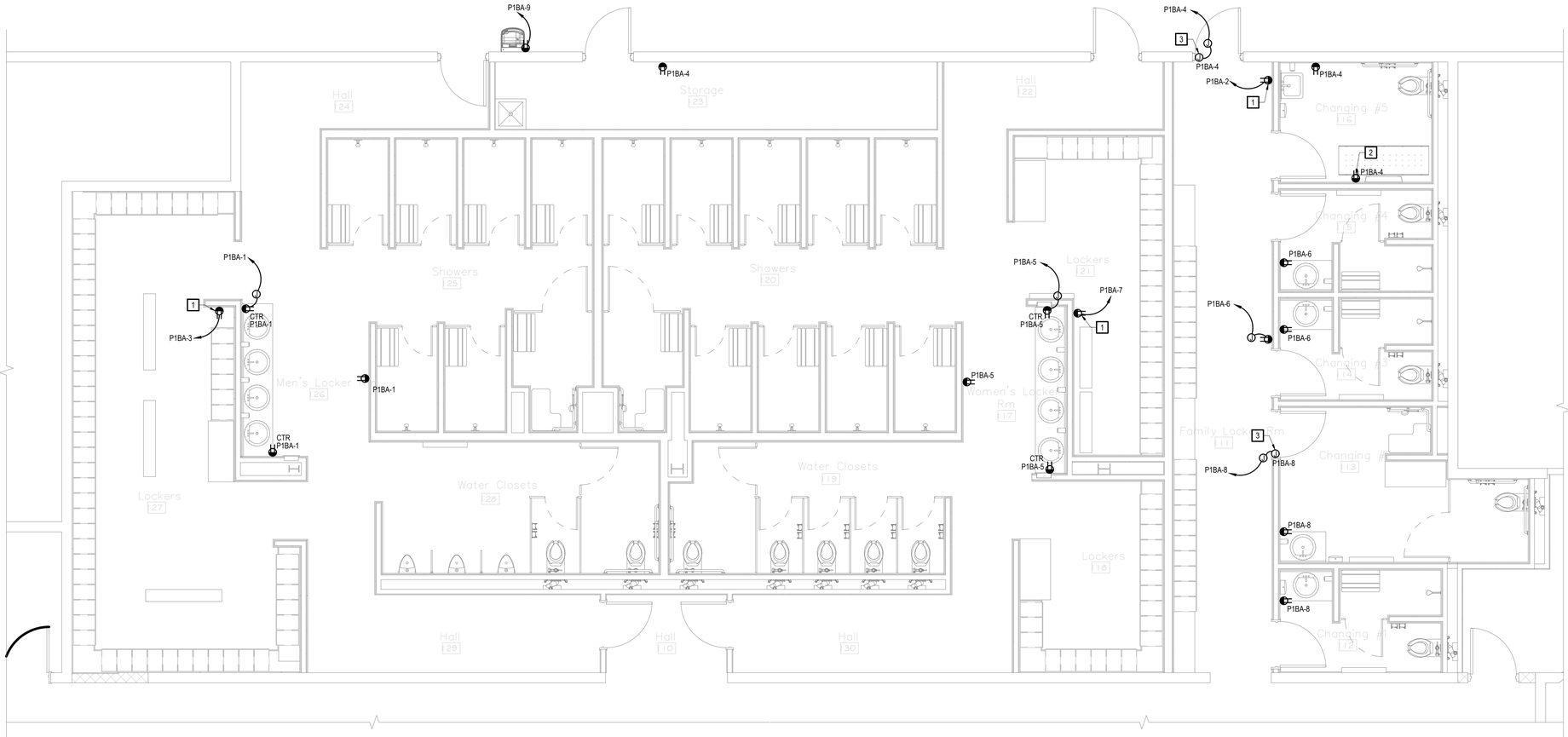
Project No. 2102

GENERAL NOTES:

1. LABEL ALL DEVICE'S CIRCUIT NUMBER ON ALL FACEPLATES.

WORK NOTES:

1. PROVIDE POWER FOR FUTURE SWIMSUIT DRYER.
2. PROVIDE POWER FOR ADULT CHANGING TABLE. COORDINATE CONNECTION ROUGH IN REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
3. PROVIDE POWER FOR AUTOMATIC DOOR OPERATOR. PROVIDE CONDUIT AND CONTROL WIRING TO PUSH BUTTON. COORDINATE PUSH BUTTON ROUGH IN LOCATION WITH ARCHITECTURAL PLANS.



1 / E20 ELECTRICAL FLOOR PLAN - POWER

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

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10.22.21

REVISIONS

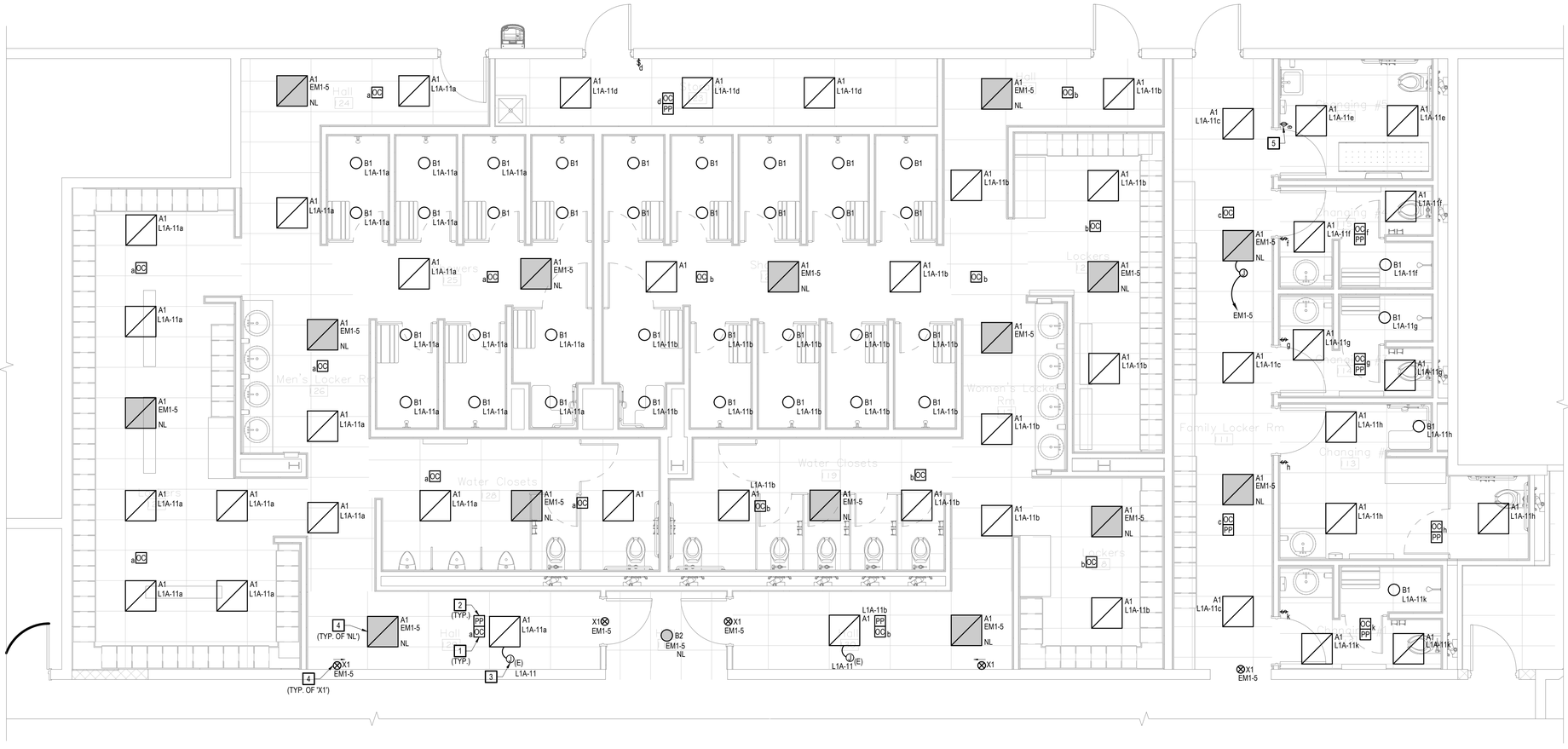
SHEET TITLE
ELECTRICAL FLOOR PLAN - POWER

SHEET NUMBER
E20

Project No. 2102

WORK NOTES:

1. CEILING MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY, 360° FOV, 120/277 VOLT RATED. PROVIDE LOW VOLTAGE WIRING AS NECESSARY FOR A COMPLETE INSTALLATION.
2. POWER PACK FOR ON/OFF CONTROL OF FIXTURES AND INTERCONNECTION OF OCCUPANCY SENSORS, 120/277 INPUT VOLTAGE, 24VDC SECONDARY VOLTAGE.
3. CONNECT TO EXISTING LIGHTING CIRCUIT RETAINED DURING DEMOLITION. CONTRACTOR SHALL FIELD VERIFY CIRCUIT. NOTIFY ENGINEER OF ANY DISCREPANCY.
4. ROUTE UN-SWITCHED CIRCUIT TO EMERGENCY LIGHTING AND NIGHT LIGHTING.
5. WALL SWITCH OCCUPANCY SENSOR, DUAL-TECHNOLOGY, LINE VOLTAGE, SINGLE-RELAY, 120/277 VOLT RATED.



1 / E30 ELECTRICAL FLOOR PLAN - LIGHTING

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

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10.22.21

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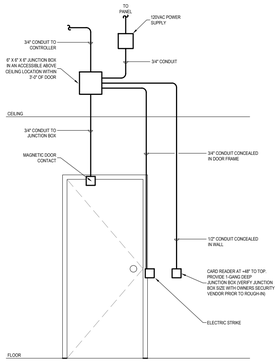
SHEET TITLE
ELECTRICAL FLOOR PLAN - LIGHTING

SHEET NUMBER
E30

Project No. 2102



2 / E40 ELECTRICAL DIAGRAM - DOOR ACCESS RACEWAYS

SCALE: NTS

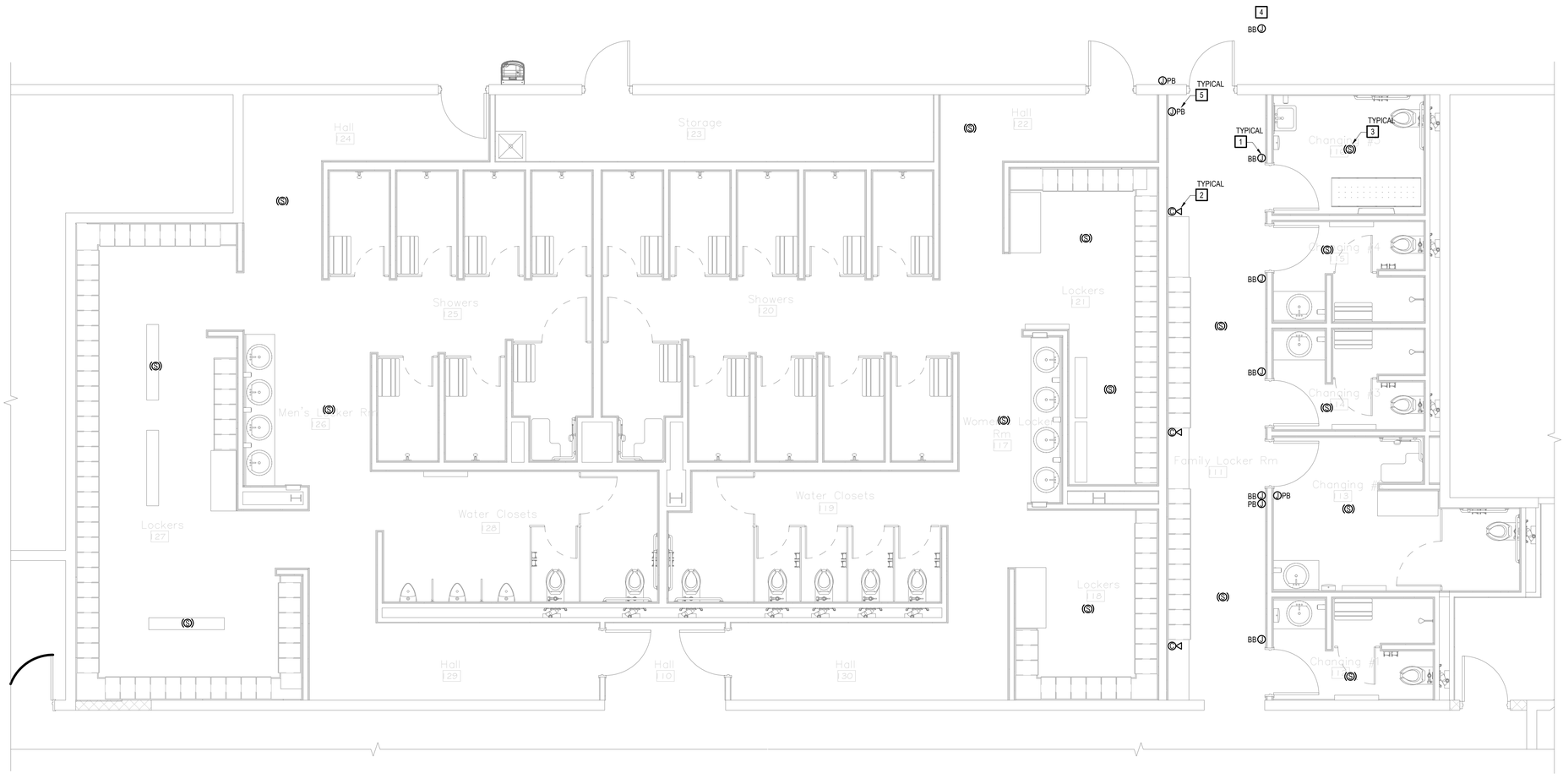
DIAGRAM IS FOR REFERENCE ONLY: REFER TO OWNER'S SHOP DRAWINGS.

GENERAL NOTES:

1. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ENGINEER AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS. EXISTING CONDITIONS TAKEN FROM EXISTING DESIGN DOCUMENTS AND FIELD SURVEYS. REFER TO ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO PROVIDE ALL RACEWAYS, BACK BOXES, MUD-RINGS, J-HOOKS, ETC. FOR A COMPLETE TELECOM PATHWAY SYSTEM. ALL DEVICES, CABLING, EQUIPMENT, ETC. BY OTHERS.
3. REFER TO SYSTEM SHOP DRAWINGS.

WORK NOTES:

1. REFER TO ARCHITECTURAL SHEET A10 FOR ADDITIONAL INFORMATION: PROVIDE SINGLE GANG RECESSED JUNCTION BOX AND ¾" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR USE WITH NEW DOOR BUZZER.
2. REFER TO ARCHITECTURAL SHEET A10 FOR ADDITIONAL INFORMATION: PROVIDE SINGLE GANG RECESSED JUNCTION BOX AND ¾" RACEWAY FOR NEW CCTV CAMERA INSTALLATION. REFER TO SHOP DRAWINGS FOR CONDUIT ROUTING INFORMATION. PROVIDE WITH PULL STRING.
3. REFER TO ARCHITECTURAL SHEET A10 FOR ADDITIONAL INFORMATION: PROVIDE SINGLE GANG BACK BOX FOR SPEAKER INSTALLATION FLUSH AT CEILING. REFER TO EQUIPMENT DOCUMENTS FOR ANY RACEWAY REQUIREMENTS.
4. COORDINATE MOUNTING FOR NEW CENTRAL CONTROL PANEL FOR DOOR BUZZER SYSTEM AT RECEPTION DESK. PROVIDE 120V FROM LOCAL SOURCE, UPS PROTECTED OR EMERGENCY IF AVAILABLE. PROVIDE FOR RACEWAY TO ACCESSIBLE CEILING ABOVE RECEPTION FOR INTERCONNECTION OF LOW VOLTAGE CABLING.
5. REFER TO ARCHITECTURAL SHEET A10 FOR ADDITIONAL INFORMATION: PROVIDE SINGLE GANG RECESSED JUNCTION BOX AND ¾" RACEWAY FOR NEW AUTO DOOR OPERATOR PUSH BUTTON.



1 / E40 ELECTRICAL FLOOR PLAN - LOW VOLTAGE

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

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DATE
10.22.21

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3 8/29/2023

SHEET TITLE
ELECTRICAL FLOOR PLAN - LOW VOLTAGE

SHEET NUMBER
E40

Project No. 2102