VCPS - New School

210 12th Street NE, Valley City, ND 58072
Project #: 24-028
Addendum 01
03/17/2026

THIS ADDENDUM MODIFIES, AMENDS, AND SUPPLEMENTS PARTS OF THE CONTRACT DOCUMENTS AND SHALL BECOME A PART OF THE PLANS AND SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION MANAGER TO NOTIFY ALL SUBCONTRACTORS AND SUPPLIERS FOR THE VARIOUS PARTS OF THE WORK OF ANY CHANGES OR MODIFICATIONS CONTAINED IN THIS ADDENDUM. RECEIPT OF THIS ADDENDUM SHALL BE NOTED ON THE PROJECT BID FORM.

General Items

- Bid Date: April 2nd, 2026 at 2pm
- There will be a non-mandatory pre-bid walkthrough meeting Tuesday 3/24 at 10am at Jefferson Elementary.
- Turf will be added to the project via forthcoming addendum.

Prior Approvals

This product has been approved as acceptable contingent upon compliance with the specifications and drawings, and acceptable installation. Contractors may consider quotation from same in preparing their bid proposals:

ARCHITECTURAL

ITEM	MANUFACTURER	APPROV	NOT APPROV
08 3613 Sectional Doors	Twin City Garage Doors	X	
23 5216 Condensing Boilers	Superior Boiler, Cheyenne		X
07 2700 Air Barrier	Tremco Dymonic 100	X	

MECHANICAL

SECTION	DESCRIPTION OF EQUIPMENT	APPROVED MANNUFACTURER
22 3000	Water Softener	Marlo
23 2114	Air Separators	Amtrol, Calefactio
23 2114	Expansion Tank	Calefactio
23 5216	Condensing Hot Water Boilers	Aerco, Riello
23 5216	Boiler Exhaust	Jeremias
23 7313	Wall Hung AC	Haier
23 8300	Radiant Ceiling Panel	Vulcan

Specifications

00 0000 – COVER PAGE

1. Reissued to correct building address.

01 1101.1 – CONTRACT CATEGORIES

1. Reissued to adjust work scopes.

01 2300 – ALTERNATES

1. Reissued to update alternate 9 wording.

03 4500 – Precast Architectural Concrete

1. Reissued to denote flashings and weeps.

06 2000 – Finish Carpentry

1. Reissued to add anti-slip tape at butcher block stair treads.

07 5399 – Elastomeric Membrane Roofing

1. Reissued this addendum.

07 9513 – Expansion Joint Cover Assemblies

1. Reissued this addendum.

08 1113 – Hollow Metal Doors and Frames

1. Reissued to adjust frame fill.

08 3100 – Access Doors and Panels

1. Reissued to add ceiling mounted units.

08 3613 – Sectional Doors

1. Reissued this addendum.

08 3613 – Sectional Doors

1. Reissued to change door color to be as selected by manufacturers standard colors.

08 7100 – Door Hardware Index

1. Reissued this addendum to correct some door numbers.

11 4000 – Foodservice Equipment

1. Page 18 – Item 24 revised accessories stating correct qty.
2. Page 32-36 – Alternates revised stating correct ALT numbers
3. Page 38 – Item 107 revised model number, description, and accessory added

Drawings

G001 – GENERAL NOTES / DRAWING INDEX

1. Reissued to track reissued sheets.

CIVIL

C200 – General Notes & Legend

1. Revised quantities

C300 – Survey Overlay & Demolition Plan - School

1. Revised playground demolition area
2. Removed swing set removal

C301 – Survey Overlay & Demolition Plan - Field

1. Revised background

C400 – Overall Site Plan - School

1. Revised asphalt fire lane
2. Revised building footprint
3. Revised south door sidewalk width
4. Revised patio alternate dimensions

5. Revised highway guardrail location
6. Added light pole locations
7. Added Transformer and CT cabinet locations
8. Added note about segmental block wall
9. Added “do not enter” sign
10. Added ADA parking sign callout

C401 – Overall Site Plan - Field

1. Revised background

C500 – Utility Plan - School

1. Revised background

C501 – Utility Plan - Field

1. Revised background

C600 – Grading Plan - School

1. Revised grading at fire lane, connection to existing building and south parking lot

C601 – Grading Plan - Field

1. Revised background

C700 – Erosion & Sediment Control Plan - School

1. Revised seeding area
2. Revised quantities

C701 – SWPPP Narrative & Notes

1. Revised site coverage

C800 – Landscaping Plan

1. Removed tree and shrub for light pole locations
2. Revised quantities

STRUCTURAL

S102A – FOUNDATION PLAN – AREA A

1. Added detail cut and footing elevation for canopy pier.

S102B – FRAMING PLAN – LEVEL 01 – AREA B

1. Updated detail cut and footing elevation for canopy piers.

S303 – FOUNDATION DETAILS

1. Added detail 4/S303 for canopy pier.

ARCHITECTURAL

A001 – ARCHITECTURAL SITE PLAN

1. Updated civil background.

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A105 – ROOF PLAN

1. Tagged canopy callout and adjusted notes.
2. Visually cleaned up alternate views.

A110C – LOWER LEVEL 00 REFLECTED CEILING PLAN -AREA C

1. Shifted ceiling grids in two classrooms.
2. Added an access panel.

A111A – MAIN LEVEL 01 REFLECTED CEILING PLAN -AREA A

1. Removed conflicting ceiling tags.

A111B – MAIN LEVEL 01 REFLECTED CEILING PLAN -AREA B

1. Adjusted ACT ceiling type in B121.

A111C – MAIN LEVEL 01 REFLECTED CEILING PLAN -AREA C

1. Added an access panel.

A111E – MAIN LEVEL 01 REFLECTED CEILING PLAN -AREA E

1. Adjusted soffit extents and added additional clarification at existing tie in.

A211 – OVERALL PRECAST PLANS

1. Added additional clarifications at wall assembly mockup.

A316 – WALL SECTIONS

1. Adjusted section tags and insulation type as shown in enlarged details.

A324 – CIRCULATION SECTIONS & ENLARGED PLANS

1. Showed structure at ships ladder for clarification.

A423 – DETAILS – INTERIOR OPENINGS

1. Adjusted interior HM frames to be grouted solid.
2. Added clarification at coiling door jamb supports.

A502 – DETAILS – EXTERIOR WALL

1. Added weeps and clarified metal panel installation at precast ledge detail.

A504 – DETAILS – EXTERIOR OPENINGS

1. Adjusted exterior HM frames to be filled with mineral wool insulation.

A506 – DETAILS – ROOF DETAILS

1. Aligned enlarged detail notes on 11/A506 with section at Jefferson connection.
2. Extended detail to show ceiling below.

A507 – DETAILS – ROOF DETAILS

1. Adjusted metal panel details to visually match assembly.

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A508 – DETAILS – SITE

1. Clarified monument sign materials.
2. Adjusted retaining wall and decorative metal fence details.
3. Adjusted foundation and notes at exterior column detail 2/A508.
4. Adjusted the exterior column bases.

A601 – DOOR SCHEDULE

1. Adjusted various notes on door schedule and general notes.
2. Shifted glazing locations at OH section door.
3. Changed door frame type glazing to be GL-3 to match schedule.

A701E – MAIN LEVEL 01 FINISH PLAN -AREA E

1. Added new RB-1 at existing Corridor E142

MECHANICAL

P20FD – FOUNDATION SEGMENT D - PLUMBING

1. 2” Waste line added for floor drain to be in Training D0008.

P200D – LOWER LEVEL SEGMENT D - PLUMBING

1. 2” Floor drain added to Training D0008.
2. 3/4” cold water line added to wall mounted hose bibb in Training D008.
3. 2” vent line connected to sink vent located in CONCESSIONS D007.

M200C – LOWER LEVEL SEGMENT C – MECHANICAL PIPING

1. V6-17 renamed to V6-17A and V6-17B was added.
2. GHWS & GHWR piping was adjusted to not cross between SPED C003 and SPED C005.
3. Thermostat tagging updated in SPED C003 and SPED C005.
4. Fin Radiation FTRO-5A and FTRO-B have been shortened as to not interfere with sliding door.

M300C – LOWER LEVEL SEGMENT C – HVAC

1. Ductwork in room SPED C003 and SPED C005 have been separated so as not to cross between.
2. V6-17 renamed to V6-17A and V6-17B was added.
3. Transfer duct was added to SPED C003. Transfer duct in SPED C005 size adjusted to 18x10

M700 – MECHANICAL SCHEDULES

1. V6-17 was removed and replaced with V6-17A and V6-17B in the VARIABLE AIR VOLUME UNIT SCHEDULE.
2. Cover length of FTR0-5A and FTR0-5B has been updated in the FIN RADIATION SCHEDULE.

M701 – MECHANICAL SCHEDULES

1. Transfer fans voltages have been updated from 208 to 120. See FAN SCHEDULE for more information.

ELECTRICAL

E001 – SITE PLAN – ELECTRICAL DEMOLITION

1. Added callout for existing Jefferson electrical room.

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E002 – SITE PLAN – ELECTRICAL

1. Added approximate underground routing for new Jefferson Elementary feed.
2. Added keynote W18.

E101E – MAIN LEVEL SEGMENT E – ELECTRICAL DEMOLITION

1. Located existing Jefferson Elementary equipment.

E201E – MAIN LEVEL SEGMENT E – LIGHTING

1. Located existing Jefferson Elementary equipment.

E300B – LOWER LEVEL SEGMENT B – POWER

1. Removed Kiln fan.

E301E – MAIN LEVEL SEGMENT E – POWER

1. Located existing Jefferson Elementary equipment.

E401E – MAIN LEVEL SEGMENT E – TELECOM

1. Located existing Jefferson Elementary equipment.

E501E – MAIN LEVEL SEGMENT E – ELECTRONIC SAFETY & SECURITY

1. Located existing Jefferson Elementary equipment.

E502A – UPPER LEVEL SEGMENT A – ELECTRONIC SAFETY & SECURITY

1. Removed one (1) card reader.
2. Adjusted detail bounds.

E503 – LARGE SCALE KITCHEN PLAN – ELECTRONIC SAFETY & SECURITY

1. Removed one (1) card reader.

E730 – POWER DETAILS

1. Rearranged sheet.
2. Updated Riser Diagram.
3. Added Existing Riser Diagram.

E731 – POWER DETAILS

1. New sheet issued this addendum, details moved from previous sheet to make room for riser changes.

E830 – POWER SCHEDULES

1. Updates to Motor & Equipment schedule.
2. Updates to MSB schedule.

E831 – POWER SCHEDULES

1. Update to panel schedule LLB

FOODSERVICE

QF101 - FOODSERVICE EQUIPMENT PLAN

1. Status revised for alternates from ALT 8/ALT 9 to Alt 9A/ALT 9B

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QF201 - FOODSERVICE EQUIPMENT ELEVATIONS

1. Elevation A Disposer control revised to correct

QF301 - FOODSERVICE PLUMBING ROUGH-IN PLAN

1. Item #100 revised adding plumbing requirements in schedule

QF401 - FOODSERVICE ELECTRICAL ROUGH-IN PLAN

1. FPS repositioned for Extinguisher Cabinet

QF501 - FOODSERVICE SPECIAL CONDITIONS PLAN

1. Wall backing added for hand sink by walk-in cooler/freezer

QF701 - FOODSERVICE EQUIPMENT ITEM DETAILS

1. Details FD-07 & FD-08 revised sink bowl sizes

END OF ADDENDUM 01

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Valley City Public Schools
New School
Valley City, North Dakota

PROJECT MANUAL
Volume 1 of 2

PROJECT NUMBER: 24-028
210 12th Street NE
Valley City, ND 58072

ISSUE DATE: March 10, 2026

ISSUED BY:
ICON ARCHITECTURAL GROUP
214 N 4th Street, Suite 208
Grand Forks, ND 58203
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Addendum #1 - Items indicated in Red

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CONTRACT CATEGORY DESCRIPTION(S)

CC #00A - <u>GENERAL REQUIREMENTS PERTAINING TO ALL CONTRACT CATEGORIES</u>

a. All Contractors and Suppliers are responsible for reviewing all plan documents in addition to all categories in this Scope Clarification prior to submitting their proposal.
b. Definitions
    i. Furnish or Supply – to source or otherwise make available a material or service.
    ii. Install or Erect – to place or fix in place ready for use.
    iii. Provide – to furnish or supply a material or service and install or erect.
c. It is the intent of each Contract Category scope of work and responsibility for the Contractor bidding to provide a complete operational assembly/system, unless specifically indicated otherwise.
d. Unless noted otherwise, all labor and material for each specification section is to be included for each Contract Category.
e. Each Contractor is required to coordinate their work with other Contractors, as directed by the Construction Manager, without additional compensation.
f. Each Contractor is required to manage their suppliers and subcontractors. The bidding contractor should be the single source contact for the CM for all work included in that Contract Category.
g. All Contract Categories are tied to Specification Divisions.
    i. 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS and
    ii. 01 - GENERAL REQUIREMENTS
h. All Contract Categories are tied to and shall comply with the General (G) Drawing Sheets and associated UL Assembly requirements.
i. All Contractors are responsible for coordination and review of shop drawings (as applicable to their work) and obtaining field verifications.
j. Field verify and inspect existing conditions and substrates to receive work prior to installation, field verify dimensions that will affect the layout or performance of your work, and confirm preparatory work is complete and acceptable to receive work under your contract category.
k. Contractors requiring embeds or provisions for anchors cast into work by others, are responsible to provide embeds and detailed layout drawings.
l. Each Contractor is responsible for clean-up of debris, rubbish and other similar items resulting from their operations on a daily basis.
m. Each Contractor is responsible for their own working platforms, scaffolding, and equipment necessary to access work. The Contractor is responsible for the repair of all Contractor caused damage incurred by their crew(s) and/or subcontractor(s).
n. The site will be set up for minimal parking by the construction trades. All contractors are responsible for any costs associated with offsite parking.
o. All bids to be submitted on the bid form included in the specifications.
p. It is the responsibility of the contractor doing the excavation work to call for utility locates for their scope of work.
q. Construction Manager will provide dumpster(s) for typical construction debris accumulated under the work of this contract unless noted otherwise. Materials requiring special disposal requirements to be removed by Contractor.
r. Construction Manager will provide temporary portable toilets.

s. **Conflicts and Duplication in Work:** In the case of a duplication of scope responsibility either on Drawings, Specification, or Contract Category Descriptions, the Contractor is responsible to bid the work as called out regardless of potential oversight duplications.
    i. In the case of duplication, the Construction Manager will make the final decision as to which Contract Category will complete the work and the appropriate cost adjustment will be made.

t. **Special Coordination and Scheduling Required:** Contractor acknowledges that the performance of their Contract Category must be closely interfaced with the performance of others and that multiple mobilizations may be required.
    i. Maintain punctuality and compliance with agreed upon deliveries.
    ii. Comply with Project Schedule.
    iii. Maintain communication with Construction Manager to ensure work sequences are followed to allow all contract categories to continue work.
    iv. Provide required "after-hours" shift work to maintain Project Schedule where indicated or required to maintain Project Schedule or to accommodate Owner's on-going operations.
    v. Provide any costs needed to perform work in accordance with the project schedule. No additional charges will be allowed for work being completed within the timeframe shown on the preliminary project schedule.

u. **Document Management and Control Procedures:** Ensure on-site contractor's personnel have current contract documents, including, but is not limited to, Special Requirements, Specifications, Drawings and clarifications (RFI's and ASI's) and other modifications (CCD's and field orders) affecting the Work.
    i. Ensure field personnel are familiar with requirements of Contract Documents.
    ii. Contractors shall have an established document control procedure to ensure compliance.

v. **Coordinate Layout and Clearances:** Coordinate space requirements and installation for items that are indicated diagrammatically on Documents.
    i. Follow routing indicated for pipes, ducts and wiring, place runs parallel with line of building. In finished areas, unless expressly indicated otherwise, conceal pipes, ducts and wiring within construction. Coordinate locations of plumbing and electrical fixtures and electrical outlets with finish elements.
    ii. Use space efficiently to maximize accessibility for other installations, maintenance and repairs.
    iii. Installing entities shall modify their installations, if needed, to eliminate conflicts and achieve effective coordination of systems and work.
    iv. Contractor's failure to exercise coordination responsibilities constitutes a waiver of claims for an increase in Contract Sum if design modifications are required to resolve conflicts that might have been avoided by complying with requirements of this obligation.

w. **Delivery and Receiving of Materials:** Provide labor and equipment necessary to receive materials, unload, inspect, sort, and distribute materials to individual work areas. Store materials and equipment in an organized manner as not to obstruct other trades and the normal day-to-day operation of this project.
    i. All Contractors are responsible for, and costs associated with unloading, staging, and appropriate storage of their material, to include material they will be installing but supplied by others.
    ii. Coordinate storage as allowed on site with the Construction Manager.
    iii. Schedule deliveries to minimize on-site storage and coordinate with Construction Manager Site Supervision.

iv. Provide flagmen for operation in contact with public traffic for deliveries.
v. Construction Manager reserves the right to remove or relocate Contractor materials and/or equipment stored on site by request to the Contractor or at the expense of the Contractor if necessary.

x. **Acceptance of Substrates and Existing Conditions:** Starting work constitutes acceptance of existing conditions, preparatory work and substrates that may affect the performance of your work.
y. **Finish protection:** Each Contractor shall provide necessary protection of immediate and adjacent surfaces during the progression of their work.
   i. Interior scaffolding and karts utilized on finished floors must use rubber, locking wheels.
   ii. Contractors may not utilize finished substrates such as countertops or sills to set tools, materials, or containers of any form.
z. Work Restrictions:
   i. Contractor's Field Offices: As directed by Construction Manager.
   ii. Construction Staging Area: As directed by Construction Manager.
      1. Site will have limited space for laydown and staging. All deliveries and on-site storage to be made in coordination with Construction Engineers
   iii. Egress and Access Routes: Do not obstruct existing access and egress from adjacent Site areas or portions of existing facilities which are to be operational during Construction.
   iv. Limit activities to Construction Limits**:** Notify Construction Manager if work activities are required outside of construction limits.
   v. Hot Work Permits: Work activities using and causing sparks and open flame must be coordinated with Construction Manager Site Supervision and special procedures shall be complied with as directed by Construction Manager.
   vi. Work in Occupied Areas: Work in occupied areas of the facility must be coordinated with Construction Manager Site Supervision who will coordinate with Owner's Representative.
   vii. Working Hours: Conduct Work during normal working hours unless expressly agreed to by Construction Manager and the Owner.
      1. Standard five-day work week (Monday through Friday) is required. A four-day ten-hour schedule is not acceptable unless approved by the Construction Manager.
   viii. Tobacco Free Site: Project Site is a "tobacco free" zone; there is absolutely no smoking, or use of tobacco products of any kind are prohibited on the Owner's Property.
   ix. Noise Restrictions: Do not use audio equipment such as radio's, tape players, compact disc or MP-3 players on Site.
      1. Radio headphones shall not be permitted.
      2. Maintain a level of conduct and decorum consistent with the environment in which the Work is being performed.
   x. Warranty: Contractor or supplier warrants that irrespective of the specification of the materials and equipment in the Plans and Specifications, the materials and equipment furnished by the applicable contractor or material supplier are appropriate for the purposes specified and are safe for the applications implicit in the Plans and Specifications.
   xi. Additional Work: No additional compensation for claimed additional work will be authorized without advanced written authorization from the Construction Manager.

CC #01A - <u>GENERAL CONSTRUCTION (performed by Construction Manager)</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all General Construction work, including but not limited to the following:
b. Include an allowance of **TWO THOUSAND (2,000) skilled carpentry man hours** to be utilized by Construction Manager. Man hours are to include all wages, payroll taxes, fringe benefits, small tools, Contractor's overhead, and profit.
c. Provide an allowance of **ONE THOUSAND (1,000) general labor man hours** to be utilized by Construction Manager. Man hours are to include all wages, payroll taxes, fringe benefits, small tools, Contractor's overhead, and profit.
d. Demolish/remove the following items:
    i. All items that are built into or attached to the building.
    ii. Flooring - where scheduled and not noted to be removed by the asbestos contractor.
    iii. Mastic and base in locations where flooring is removed by this contract.
    iv. Ceiling tiles and grid for the walls to be demolished.
    v. Ceiling tiles and grid for the installation of new walls.
    vi. Doors, glass, and storefront components noted.
    vii. Existing veneer at exterior of building for installation of new construction.
    viii. All items indicated as save for salvage.
e. Provide any shoring required to complete the work of the contract.
f. Provide all saw cutting, and wall or slab removals where noted.
g. Provide dumpsters for the lawful disposal of all demo items.
h. Ceiling tiles in areas scheduled to remain shall be removed and re-installed by the Contract Category installing their building system (i.e. fire protection, mechanical, electrical).
i. Mechanical, plumbing, and electrical items will be removed by others.
j. Provide and install the following items:
    i. In-wall blocking and backing for items installed by this Category.
        1. Include backing for TV wall brackets installed by Owner.
        2. Include backing for foodservice equipment (reference QF501)
        3. Include backing for miscellaneous metals (e.g. Handrails, roof ladders, etc.)
    ii. Wood roof and window blocking.
    iii. Interior joint sealants as applicable to work scope.
    iv. Expansion joints and covers.
        1. Expansion joint at cooler.
    v. FRP as scheduled.
    vi. Visual display surfaces.
    vii. Signage – Building and Site.
    viii. Toilet compartments.
    ix. Toilet, bath and laundry accessories.
    x. Wall and door protection.
    xi. Corner guards.
    xii. Fire extinguishers and cabinets.
    xiii. Metal lockers.
    xiv. Wood base support for lockers.
    xv. Flag poles
    xvi. Standards and shelving
    xvii. Site Benches and Bike Racks
    xviii. Concrete splash blocks

k. Install the following items, supplied by others:
    i. All Owner furnished contractor installed (OFCI) items as indicated.
    ii. Relocate playground equipment and playground border as specified.
    iii. Relocation of existing kiln as noted.
    iv. Remove existing netting at discus area
    v. Grout sills at elevator opening.
    vi. Core and install volleyball inserts, supplied by CC #11B.
l. Provide all fasteners required to complete all carpentry work installations.
m. Provide field measurements for items installed by this Contract Category.
n. Provide and maintain floor protection utilizing overlapped Ram Board with taped seams (or equivalent floor protection material). Remove and dispose of floor protection after utilization.
o. Provide temporary shelters for winter conditions.
p. Provide access panels to be installed by CC #09A.
q. Include allowance for additional access panels not indicated of $7,500.
r. Progressive and final cleanup of the General Construction work.
s. Generally covered by specification sections as follows:
    i. Division 02 – Existing Conditions
    ii. 06 1000 – Rough Carpentry
    iii. 06 8316 – Fiberglass Reinforced Paneling
    iv. 07 9200 – Joint Sealants (As Applicable)
    v. 07 9513.16 – Exterior Expansion Joint Cover Assemblies
    vi. Division 10 – Specialties

CC #01B - <u>SURVEYING</u>

a. Establish benchmark for the building construction.
b. Provide survey stakes for actual building corners with a 10’ offset.
c. Provide survey stakes for building grid lines.
d. Provide stakes for all utility lines with 15’ offsets every 25’.
e. Provide final grading elevation stakes on a 25’ grid.
f. Provide survey stakes for all new site paving.
g. Provide survey stakes for all new site lighting.
h. Provide survey stakes for curb & gutter.
i. Provide control points on site for contractor layout coordination
j. Verify foundation and anchor bolt placement following completion of concrete foundations. Assume three mobilizations.
k. Generally covered by specification sections as follows:
    i. 01 4000 – Quality Requirements

CC #01C – <u>TESTING & INSPECTIONS</u>

a. Soil compaction testing, proctor tests, excavation observations.
b. Concrete cylinders, rebar inspection.
c. Masonry grout and mortar testing, rebar inspections.
d. Structural steel welding observations.
e. Reference Sheet ~~S004~~ S003 – Special Inspections & Testing
f. Floor Flatness/Levelness at Gym Floor, Polished Concrete, and RSF areas.

g. Generally covered by specification sections as follows:
    i. 01 4000 – Quality Requirements

CC #01D – TEMPORARY & PERMANENT FENCING

a. Provide temporary fencing as indicated on the drawings and specifications.
b. Provide gate(s) as indicated. Each gate is to be a minimum of 16'-0" wide.
c. Temporary posts spacing to be a maximum of 15'-0" on center.
d. Provide diagonal post bracing at all corners.
e. Removal of all temporary fencing and gates at the completion of the project.
f. Temporarily remove existing fence at track area and reinstall after completion of new turf. (Figure 50' of removal and reinstall)
g. Include additional mobilization to remove portion of pounded fence at playground and replace with ballasted fence panels per site logistics plan.
h. Progressive and final cleanup of the Contractor's work.
i. Generally covered by specification sections as follows:
    i. 01 5000 – Temporary Facilities and Controls
    ii. 32 3119 – Decorative Metal Fences

CC #03A - BUILDING CONCRETE

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Building Concrete work, including but not limited to the following:
b. All cast-in-place concrete work including shop drawings, formwork, reinforcement (rebar and wire mesh) and accessories.
c. All concrete associated expansion joint materials, membranes, vapor barriers, waterproofing, and caulking/sealants.
d. Provide and install the following items:
    i. Foundation insulation as indicated.
    ii. Rigid insulation below the slab as indicated.
    iii. Waterproofing on the new and existing foundation walls as indicated.
    iv. Vapor barrier under slab (All seams to and penetrations to be sealed with tape).
e. Subgrade will be prepared, by others, within ± 2 inches, include all work from subgrade to finish floor.
f. Finish grading of the concrete subgrade by this Contractor. Include placement of finish sand fill to meet plan subgrade elevations. Materials provided by others.
g. Protect and maintain foundation bearing soils in suitable condition after excavation by others.
h. Set and install all embedded steel, anchor bolts and sleeves provided by others. Coordinate installation of sleeves with respective MEP Contractors.
i. Set steel decking on stoops as indicated to include setting any angles that may be required. Decking and angles to be provided by the Steel Contract Category.
j. Contractor to include all work associated with tie-ins to existing footings and foundations.
k. Isolation at steel columns, if any.
l. Concrete work for all pad and strip footings.
m. Cure and seal all concrete slabs.
n. Pan fill concrete stairs.
o. Provide concrete topping slab on hollow core precast.

p. Install bollards, bollard material provided by others.
q. Assist in the installation of trench drains provided by Mechanical Contractor.
r. Include concrete retaining wall at gridline A.
s. Site concrete is by others.
t. Install embed plates provided by Precast Supplier.
u. Mechanical and electrical slabs and housekeeping pads by others.
v. Heated concrete charges and winter condition costs for all cold weather concrete placements.
w. Provide frost/freezing protection for all concrete placements.
x. Provide alternate pricing to provide porosity inhibiting admixture (i.e. BarrierOne PIA) which shall include an adhesion warranty letter at Gymnasium floors.
y. S001 Concrete Note 15 - Provide Allowance for additional rebar.
z. Coordinate walk-in cooler floor slab with food service contractor.
aa. Waterproof and install insulation at foundations upon completion of foundations so backfilling can take place. Include added mobilizations necessary to complete extending waterproofing and insulation up past base of precast as detailed after precast installation.
bb. Coordinate placement and requirements of slabs to be polished concrete with CC#09H – Concrete Polishing
cc. Meet concrete tolerance requirements at wood gym floor per specification section 09 6466 (+/- 1/8" in radius of 10').
dd. Provide on-going dewatering of excavations.
ee. Install blockouts and sleeves for mechanical and electrical penetrations. Blockout and sleeve material, along with layout for these materials, are to be provided by others.
ff. Provide necessary puddling and vibrating of slabs in rooms scheduled for Polished Concrete to ensure a uniform look when polished.
gg. Coordinate recessed cooler slab and floor slab with CC #11A – Food Service Equipment.
~~hh. Provide shovel guard precast and associated rigid insulation as indicated in 2/A502 and 16/a212~~
~~i. Include exterior column box benches as indicated in 1 and 2/a508~~ (Moved to 04A)
ii. Provide welding of rebar to steel where required in the field (ref. 8/S502, etc.)
jj. Provide concrete bases for flag poles. Include excavation, reinforcing, concrete, and installation of embedded flag pole sleeve. (Flag pole sleeve provided by others.)
kk. Where plans show the option of strip footing or thickened slab at masonry walls, such as detail 16/S301, thickened slab should be included.
ll. Provide cast in lumber sleepers at stair treads as indicated (ref. 9, 10, 11/A326)
mm. Concrete Testing is by the Construction Manager. Provide assistance, if required, to the testing company.
nn. Progressive and final cleanup of the Contractor's work.
oo. Generally covered by specification sections as follows:
    i. 03 0516 – Underslab Vapor Barrier
    ii. 03 1000 – Concrete Forming and Accessories
    iii. 03 2000 – Concrete Reinforcing
    iv. 03 3000 – Cast-in-Place Concrete
    v. 07 1300 – Sheet Waterproofing
    vi. 07 2100 – Thermal Insulation (as applicable)
    vii. 07 2600 – Vapor Retarder
    viii. 07 9200 – Joint Sealants (as applicable)

CC #03B – PRECAST CONCRETE

a. Provide supervision, layout, shop drawings, labor, material, equipment, and other incidental costs to complete all Architectural Precast Concrete work, including but not limited to the following:
b. Engineering and shop drawings.
c. Hollow core where indicated.
d. Trucking and transportation and permitting.
e. Provide and install all grouting and embedment plates.
f. Provide embed weld plates for installation in foundations by cast in place concrete scope.
g. Provide all caulking of wall panels on both interior and exterior sides.
h. Provide and install weld plates, bearing pockets, and anchorage to structure.
i. Provide installation of conduit, electrical boxes, and any other embedded items as indicated.
j. Provide and install helical piers or other means of bracing as needed for temporary support of precast concrete. Coordinate locations of piers with U/G MEP work. Verify with CM prior to placement.
k. Include multiple mobilizations (2 minimum).
l. Provide mock-up wall panel as specified.
m. Hold out precast panels as necessary in coordination with structural steel erection.
n. Provide DEDUCT alternate for hollow core erection by others.
o. Provide price for Alternate #11 (Exterior precast wall finish).
p. Provide final clean of precast wall panels at project completion
q. Achieve fire rating indicated in documents (utilize Metacaulk joint strip or similar firestop strip as necessary in panel joints)
r. Progressive and final cleanup of the Contractor's work.
s. Generally covered by specification sections as follows:
    ~~i. 03 4100 – Precast Structural Concrete~~
    ii. 03 4113 – Precast Hollow Core Planks
    iii. 03 4500 – Precast Architectural Concrete
    iv. 07 9200 – Joint Sealants (as applicable)

CC #04A - MASONRY

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Masonry work, including but not limited to the following:
b. Concrete Unit Masonry (Concrete Block, CMU) and all accessories.
c. CMU reinforcement including wall reinforcement and reinforcing steel (rebar).
d. Temporary top of wall bracing as required.
e. Concrete grout at CMU – all required filled cells and reinforcing.
f. Installation of items embedded in masonry, including steel lintels and shelf angles.
g. Thru-wall flashing, weeps, and damp proofing.
h. Openings for all devices installed in masonry.
i. Fire stopping of all masonry walls that key to the deck.
j. Masonry beam pockets.
k. Toothing of masonry to tie into existing conditions.
l. Include setting lintels and bearing plates for new openings in existing walls.
m. Receive, unload, and install hollow metal frames built into masonry.
n. All CMU to be cleaned, rubbed, pointed, and ready to receive finishes.
o. Masonry cleaning.

p. Heating charges and winter condition costs for all cold weather masonry placements.
q. Provide frost/freezing protection for all masonry placements.
r. Include ADD alternate for heat and shelter costs for the installation of all brick and stone veneer if needed.
s. Drill and epoxy dowels as detailed per 16/S301.
t. Include bases for lockers per 4 and 5/A421.
u. Provide shovel guard precast and all associated rigid insulation, flashing, etc. as indicated in 2/A502 and 16/A212.
    i. Include exterior column box benches as indicated in 1 and 2/A508.
v. Provide acoustical insulation and acoustical sealant at top of wall (ref. 12/A422)
w. Progressive and final cleanup of the Contractor's work. All interior areas broom cleaned.
x. Generally covered by specification sections as follows:
    i. Division 04 - Masonry.
    ii. 07 2100 – Thermal Insulation (as applicable)
    iii. 07 2700 – Air Barriers (As applicable)
    iv. 07 9200 – Joint Sealants (as applicable)

CC #05A - <u>STRUCTURAL STEEL AND METAL FABRICATION (*SUPPLY)*</u>

a. Engineer, fabricate, and deliver all structural steel framing, embedded plates, steel beam bearing plates, roof opening frames, mechanical equipment support frames and other items defined as structural steel.
b. Engineer, fabricate, and deliver:
    i. All shear stud connectors, deformed bar anchors, anchor rods, expansion bolts, and other incidental items of structural steel required to be built into concrete or masonry and attached to the structural frame.
    ii. All miscellaneous and ornamental steel, steel stairs, handrails, guardrails, catwalks, catwalk rails, roof ladders, pipe bollards, supports, anchorage, and accessories for miscellaneous metal and ornamental metal work.
    iii. All steel roof deck, steel floor deck, and related accessories.
c. Provide shop drawings and erection drawings.
d. Provide setting diagrams, templates, instructions, and directions for installation of anchorages, which are to be embedded in concrete or masonry.
e. Provide engineering of all delegated connection designs indicated.
f. Supply the following items:
    i. All decking and angles for stoops as indicated.
    ii. All entrance canopy materials.
    iii. Insulation for flutes in acoustical decking.
    iv. Bent plate and anchors at all non-bearing CMU wall locations (per detail 19/S501)
    v. Structural steel supports for curtain wall assemblies
g. Shop priming of all structural steel and ferrous metal fabrications.
h. Anchor bolt shop drawings to be submitted within **ten (10) days** of contract award.
i. Include anticipated timeline for remaining shop drawings.
j. Include anticipated timeline for anchor bolts delivery following return of approved shop drawings.
k. Include anticipated timeline for embedded metal fabrications following return of approved shop drawings.

l. Include anticipated timeline for structural and all other items following return of approved shop drawings.
m. Coordinate sequence and deliveries with CM and CC #05B.
n. Expedite shop drawing and delivery of Stairs 2 & 3 for construction access.
o. Provide drilled bolt holes in structure for equipment such as operable partitions, wrestling mat lifts, divider curtains, etc.
p. S001 Structural Steel Note 16 - Provide Allowance for additional 1 ton of material.
q. No time extensions will be allowed for re-submittals of shop drawings.
r. Include extra nut at each anchor bolt for column levelling.
s. Generally covered by specification sections as follows:
    i. 05 1200 – Structural Steel Framing
    ii. 05 2100 – Steel Joist Framing
    iii. 05 3100 – Steel Decking
    iv. 05 5000 – Metal Fabrications
    v. 05 5100 – Metal Stairs
    vi. 05 5133 – Metal Ladders
    vii. 05 5213 – Pipe & Tube Railings
    viii. 05 5700 – Decorative Metal Railings
    ix. 10 7316.13 – Metal Canopies

CC #05B - <u>STRUCTURAL STEEL AND METAL FABRICATION (INSTALL)</u>

a. Provide supervision, skilled labor, and equipment necessary to install/erect all Structural Steel Framing, Steel Decking, and Metal Fabrications. Installation of items embedded in concrete or masonry are NOT included in this Contract Category.
b. Welding must be performed by a skilled welder with a current certification for the work being performed.
c. Owner/CM will engage a qualified independent testing agency to inspect field welds and high-strength bolted connections in accordance with the specifications.
d. Provide field verification measurements for all miscellaneous metals and other materials installed by this contract category.
e. Provide all grouting below steel bearing and base plates.
f. Install the following items:
    i. All hand rails and guard rails.
    ii. Roof ladders.
    iii. Miscellaneous roof deck accessories, according to deck manufacturer's written instructions, to provide a complete deck installation.
    iv. Entrance canopies and stairs.
    v. Roof sump pans, sump plates, and reinforcing channels or zees in ribs to span between supports and weld.
g. Touchup painting of abraded areas, welds, and rust spots on prime painted and galvanized metals.
h. Provide temporary shoring before placing metal deck panels, if required, to meet deflection limitations and prevent overloading due to construction loads.
i. Provide and maintain temporary railing at all roofs, mezzanines, and raised floors. Remove railing only once directed by construction manager.
j. Include unloading of all steel deliveries.
k. Adequately clean steel of dirt & debris as necessary prior to install.

l. Provide ADD alternate to install Precast Hollow Core Planks.
m. Provide early install of Stairs 2 & 3 for construction access.
n. Install bent plate and anchors at all non bearing CMU wall locations (per detail 19/S501)
o. Provide all temporary power supply for welders and any other equipment to the extent required for this trade's scope of work.
p. Installation of all closures at openings and edges in decking.
q. Fall protection required 100% of the time when working above 6' - per Construction Engineers project safety requirements.
r. Provide core drilling in concrete as required for installation of handrails and other metals.
s. Progressive and final cleanup of the Contractor's work. All interior areas broom cleaned.
t. Generally covered by specification sections as follows:
    i. 05 1200 – Structural Steel Framing
    ii. 05 2100 – Steel Joist Framing
    iii. 05 3100 – Steel Decking
    iv. 05 5000 – Metal Fabrications
    v. 05 5100 – Metal Stairs
    vi. 05 5133 – Metal Ladders
    vii. 05 5700 – Decorative Metal Railings
    viii. 10 7316.13 – Metal Canopies

CC #06A - <u>CARPENTRY</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Carpentry work, including but not limited to the following:
b. Provide and install the following items:
    i. In-wall blocking and backing for items installed by this CC#.
c. Install the following items, supplied by others:
    i. Casework and woodwork.
    ii. Solid surface window sills.
    iii. Wood trim.
    iv. Doors and hardware.
    v. Plastic laminate/wood wall panels
    vi. Brackets.
    vii. Music Education Storage Casework (Alt. 4)
d. Install all brackets supporting products installed, including in-wall (Concealed) brackets. Coordinate to install concealed brackets prior to drywall.
e. Include install of wood trim WDT-1 at lockers.
f. Include install of SLAT-1 Wall.
g. Provide all fasteners required to complete all carpentry work installations.
h. Provide, document, and communicate all field measurements for items installed by this Contract Category.
i. Hollow metal door frames installed by (09A) metal framing contractor in metal stud framed walls. This work scope responsible to ensure they are plumb and level when installed, and after drywall installation. All other hollow metal frames are to be installed by this subcontractor (I.e. precast and masonry openings).
j. Fill HM door frames installed with low expansion spray foam insulation as indicated in architectural details.

k. Include readjustment of doors and hardware following building air balancing and immediately prior to building turnover.
l. Receive, offload, inventory, sort, and store all materials provided by Others and installed by this Contract Category.
m. Include install of wood caps and wood treads at stairs as indicated.
n. Include install of metal trim associated with millwork (i.e. MTLP-8, 9, 10).
o. Progressive and final cleanup of the Contractor's work.
p. Generally covered by specification sections as follows:
    i. 06 2000 – Finish Carpentry
    ii. 06 4100 – Architectural Wood Casework
    iii. 07 9200 – Joint Sealants (As Applicable)
    iv. 08 1113 – Hollow Metal Doors and Frames
    v. 08 1416 – Flush wood Doors
    vi. 08 7100 – Door Hardware
    vii. 12 3600 – Countertops
    viii. 12 3551 – Music Education Storage Casework (Alt. 4)

CC #06B - <u>ARCHITECTURAL CASEWORK (SUPPLY)</u>

a. Provide all casework.
b. Provide all countertops and vanity tops to include all build-up materials and brackets for countertops.
c. Provide early coordination and delivery of in-wall concealed brackets.
d. Provide all simulated stone countertops.
e. Provide solid surface window sills as noted.
f. Provide wall paneling, chair rail, wainscot, and wood trim as noted.
    i. Include supply of wood trim (WDT-1) at lockers.
    ii. Include supply of Slat-1 Wall materials.
g. Provide complete system to include wall framing, sheathing, and surfacing at reception desk.
h. Provide templating for complex geometry situations. Basic field measurements shall be provided by others.
i. Provide full shop drawings for all components to be provided.
j. All woodwork provided shall be pre-finished.
k. Provide pricing to Alternate #4.
l. All materials are to include tax and freight costs for delivery to the job site.
m. Include supply of wood caps and wood treads at stairs as indicated.
n. Include supply of metal trim associated with millwork (e.g. MTLP-8, 9, 10).
o. Generally covered by specification sections as follows:
    i. 06 4100 – Architectural Wood Casework
    ii. 12 3600 – Countertops
    iii. 12 3551 – Music Education Storage Casework (Alt. 4)

CC #07A – <u>MEMBRANE ROOFING</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Roofing work, including but not limited to the following:
b. Provide and install the following:

i. EPDM Roofing.
ii. Tapered roof insulation.
iii. Protection board.
iv. Manufactured roof cants.
v. Pre-finished metal flashing.
vi. Counter flashing.
vii. Overflow scuppers.
viii. Roof expansion joint assemblies.
ix. Roof hatches, rails (if any), and walk path materials.

c. Provide manufacturer's warranty.
d. Coordinate with MEP trades on the install of roof curbs and boots for penetrations.
e. Install acoustical insulation provided by others in flutes at acoustical decking prior to install of roofing.
f. Provide sawcutting for reglets as indicated or required.
g. Special attention is called to the Mechanical, Electrical, and Structural drawings. Note penetrations that may not be on the Architectural Roof Drawings.
h. Provide and maintain OSHA approved temporary guardrails and fall protection as required.
i. Provide snow removal on roof and cold weather application as necessary to maintain schedule.
j. Progressive and final cleanup of the Contractor's work.
k. Generally covered by specification sections as follows:
    i. 07 5300 – Elastomeric Membrane Roofing
    ii. 07 6200 – Sheet Metal Flashing and Trim
    iii. 07 7100 – Roof Specialties
    iv. 07 7200 – Roof Accessories
    v. 07 9513.16 – Exterior Expansion Joint Cover Assemblies

CC #07B - <u>JOINT SEALANTS / FIRESTOPPING</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Caulking and Firestopping work, including but not limited to the following:
b. Masonry control joints.
c. Hollow core precast and topping slab to columns.
d. Casework, countertops, and window sills.
e. Metal stair stringers adjacent to walls.
f. Provide mineral wool and sealant at top of wall at smoke partitions as indicated in detail 5/A422.
g. Firestopping at rated wall assemblies. Mechanical, electrical, and plumbing penetrations to be rated by installing trades. This scope responsible for top, bottom, and edge of wall as necessary.
h. Hollow metal frames to wall assemblies – both sides and tops.
i. Progressive and final cleanup of the Contractor's work.
j. Generally covered by specification sections as follows:
    i. 07 8400 – Firestopping
    ii. 07 9200 – Joint Sealants

CC #07C - <u>METAL WALL PANELS</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Metal Panel work, including but not limited to the following:

b. Provide full shop drawings of systems and samples for approval.
c. Provide field measurements.
d. Roof blocking is by others.
e. Provide and install the following items:
    i. Concealed caulking and counter flashing of all installed components.
    ii. Caulking required at metal panels, including to dissimilar materials.
    iii. Zee furring and insulation at metal panels.
    iv. Weather/Air barriers behind metal panels.
    v. Soffit and fascia.
    vi. Visible sealants for all installed components where indicated.
    vii. Aluminum z-girts and channels at front entry trellis.
    viii. Provide all sheet metal trims and flashings (excluding window sills).
f. Provide weather/Air barrier product that is capable of being applied at the average temperature when the work will be required. Include cold weather application as necessary.
g. Provide all clips and fasteners required to install panels.
h. Coordinate install with MEP items installed within Metal Panels.
i. Provide and install gutters, conductor heads, and downspouts throughout.
j. Progressive and final cleanup of the Contractor's work.
k. Generally covered by specification sections as follows:
    i. 05 4000 – Cold Formed Metal Framing (Zee furring)
    ii. 07 2100 – Thermal Insulation (As applicable)
    iii. 07 2700 – Air Barriers (As applicable)
    iv. 07 4213 – Metal Wall and Soffit Panels
    v. 07 4213.23 – Metal Composite Material Wall Panels
    vi. 07 6200 – Sheet Metal Flashing and Trim
    vii. 07 9200 – Joint Sealants

CC #07D – SPRAY FOAM INSULATION

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Spray Foam Insulation work, including but not limited to the following:
b. Insulate all wall and ceiling assemblies as noted in the plans and specifications.
c. Provide and install the following:
    i. Spray foam insulation.
    ii. Any insulation that is not concealed with gypsum board must be coated with intumescent paint by this contractor.
d. Progressive and final cleanup of the Contractor's work.
e. Generally covered by specification sections as follows:
    i. 07 2119 – Foamed-In-Place Insulation

CC #08A - DOORS AND HARDWARE (SUPPLY)

a. Furnish all hollow metal frames, hollow metal doors, wood doors, and finish hardware.
b. Provide complete shop drawing for all frames, doors, and hardware provided.
c. All doors and frames to be factory machined, ready for installation, including trim kits and cutouts for openings.
d. Provide a keying schedule that incorporates the Owner's existing keying schedule.

e. Supply cylinders for aluminum entrance doors.
f. Provide (12) temporary cores and keys for use during construction
g. All wood doors shall be supplied pre-finished.
h. Hollow metal frames to include two spreader bars.
i. Verify with the Architect the stop locations for glass thickness.
j. Furnish a commercial key box(es) per note 21 on a100b and a101f
k. Furnish silencers at all door frames.
l. Furnish all fasteners for the glazing stops in sidelights, transom lights, borrowed lights, and door glazing kits.
m. Supply power supplies for electrified hardware as needed for a functioning system. Include relays as necessary for integration with systems such as fire alarm, security, door operator control, etc.
n. All hardware should be packaged together based on door it will be installed on. Provide labeling on all hardware with corresponding door number.
o. All materials are to include tax and freight costs for delivery to job site.
p. Furnish wide thresholds at all doors supplied by this contract category at Gymnasium D010 (ref. 9/A424).
q. Generally covered by specification sections as follows:
    i. 08 1113 – HM Doors & Frames
    ii. 08 1416 – Wood Doors
    iii. 08 7100 – Hardware

CC #08B - <u>OVERHEAD, COILING, AND SECTIONAL DOORS</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Overhead, Coiling, and Sectional Doors, including but not limited to the following:
b. Provide field measurements.
c. Provide full shop drawings for all components to be provided.
d. Coordinate with Electrical Contractor for any power requirements.
e. Progressive and final cleanup of the Contractor's work.
f. Generally covered by specification sections as follows:
    i. 08 3323 – Overhead Coiling Doors
    ii. 08 3326 – Overhead Coiling Grilles
    iii. 08 3613 – Sectional Doors

CC #08C - <u>ALUMINUM STOREFRONT, CURTAIN WALL, GLASS AND GLAZING</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Aluminum Storefront, Curtain Wall, Glass, and Glazing work, including but not limited to the following:
b. Provide all interior aluminum windows and glazing.
c. Provide door hardware for openings provided under this Contract Category. Cylinders to be provided and installed by others.
d. Provide and install the following items:
    i. Sill flashing.
    ii. Glazing kits in doors.
    iii. Glass and glazing in hollow metal frames.

iv. Power assist door operators.
v. Interior and exterior caulking of all assemblies.

e. Provide semi-rigid and/or spray foam insulation at curtain wall and/or storefront assemblies for a complete system as per manufacturer recommendations.
f. Include aluminum closures with insulation between vertical mullions and abutting walls as indicated (reference 15/A424).
g. Temporarily install plywood in lieu of glass at 8 exterior windows for CM to vent temporary heaters. Return at completion of project to remove plywood and install glazing. These glass panels are to be stored off site during construction.
h. Coordinate install of aluminum doors to be installed late in the project to minimize damage. Include mobilization accordingly.
i. Field measure all openings.
j. Provide glass display cases and glass display shelving as indicated (e.g. 11/A410, 7/A415, 8/A421, 9/A421, etc.)
k. Provide wide thresholds at all doors by this contract category at Gymnasium D010 (ref. 9/A424)
l. Progressive and final cleanup of the Contractor's work.
m. Generally covered by specification sections as follows:
    i. 07 9200 – Joint Sealants
    ii. 08 4313 – Aluminum Framed Storefronts
    iii. 08 4413 – Glazed Aluminum Curtain Walls
    iv. 08 4500 – Translucent Wall and Roof Assemblies
    v. 08 7100 – Door Hardware (as applicable)
    vi. 08 8000 – Glazing
    vii. 08 8813 – Fire Rated Glazing
    viii. 08 8853 – Security Glazing

CC #09A - <u>GYPSUM BOARD ASSEMBLIES</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Structural Metal Stud Framing and Gypsum Board Assemblies work, including but not limited to the following:
b. Engineering of all structural framed metal stud walls. Provide design calculations to Construction Manager for review.
c. Provide any welding of studs if required by Metal Stud Engineer.
d. Installation of all hollow metal frames in metal stud walls, frames provided by others.
e. Fill all HM door frames with low expansion spray foam insulation per architectural details.
f. Provide and install all the following items:
    i. Structural and non-structural metal stud framing.
    ii. All hat channel, sealants, ceiling suspension system assemblies, and/or metal furring required.
    iii. Soffit framing as indicated on drawings.
    iv. All building insulation and acoustical insulation at metal stud assemblies.
    v. Acoustical sealants per wall assembly details.
    vi. All interior, exterior, abuse resistant, and moisture resistant sheetrock as scheduled.
    vii. Cement board (Durock) at walls to receive tile.
    viii. Install access panels indicated (Provided by CC #01A)
    ix. All exterior gypsum sheathing.

x. All taping and fire taping.
xi. Joint sealants as applicable to work scope.
xii. All fasteners required for the installation of work in this Contract Category.

g. Return drywall to windows in gypsum assemblies.
h. Provide control joints.
i. Finish walls to level required by plans and specifications.
j. Patch existing walls prior to paint.
k. Insulate all wall and ceiling assemblies as noted in the plans and specifications.
l. Provide and install the following:
    i. Acoustic insulation.
    ii. Sealed vapor barriers at exterior walls and ceiling.
m. Submit coordination drawing showing proposed locations of control joints for review and approval by construction manager and architect.
n. Include unloading and staging of hollow metal door frames (supplied by others).
o. Provide steel bracing at all partial height steel stud walls every 5'-0" OC unless otherwise indicated (ClarkDietrich PWxx or approved equal).
p. Include additional (40) labor hours of drywall repair as directed by Construction Engineers and tracked with T&M tickets.
q. Coordinate with paint contractor to spot touchup following application of prime coat.
r. Provide for offloading and stocking of all materials provided under this Contract Category.
s. Provide labeling of rated walls as specified.
t. Progressive and final cleanup of Contractor's work.
u. Generally covered by specification sections as follows:
    i. 05 4000 – Cold Formed Metal Framing
    ii. 06 1600 – Sheathing
    iii. 07 0553 – Fire and Smoke Assembly Identification
    iv. 07 2100 – Thermal Insulation
    v. 07 9200 – Joint Sealants
    vi. 08 3100 – Access Doors and Panels
    vii. 09 2116 – Gypsum Board Assemblies

CC #09B - <u>TILE</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Tile work, including but not limited to the following:
b. Provide floor preparation as necessary.
c. Grouting of tile – use epoxy grout where scheduled.
d. Provide crack isolation and/or waterproofing membranes, if required.
e. Provide all accessories, including thresholds and transition strips.
f. Provide special detailing around floor drains to ensure desired results.
g. All sealants associated with tile work and sealants from tile to dissimilar materials.
h. Provide extra materials as noted.
i. Minor floor prep shall be provided as needed.
j. Provide slope mortar bed as indicated at showers
k. Progressive and final cleanup of Contractor's work.
l. Generally covered by specification sections as follows:
    i. 09 0561 – Common Work Results for Flooring Preparation

ii. 09 3100 – Tiling

CC #09C - <u>ACOUSTIC CEILINGS</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Acoustic Ceiling work, including but not limited to the following:
b. Provide ACT, grid assemblies, and suspension material as required for installation of acoustic ceilings.
c. Special attention is called to the Mechanical and Electrical drawings. Note ceiling devices that may not be on the reflected ceiling plans.
d. Provide washable and moisture resistant tiles if noted.
e. Provide rated ceiling where indicated, including enclosures at penetrations to maintain rating.
f. Provide insulation above ceiling tiles where shown or specified.
g. Provide joint sealants as applicable to work scope.
h. Provide extra materials as noted.
i. Drill tapcon fasteners or similar to hollow core plank when fastening to hollow core. Shooting in fasteners to hollow core is not permitted.
j. Install hold down clips on all acoustical ceiling panels within 20' of exterior doors and per documents.
k. Provide acoustical decorative panels (SCU, SWU) as indicated in documents.
l. Include additional (20) labor hours for ceiling tile repairs as directed by Construction Engineers and tracked with T&M tickets.
m. Provide price for alternate #5 (Acoustic ceiling panels).
n. Progressive and final cleanup of Contractor's work.
o. Generally covered by specification sections as follows:
    i. 07 9200 – Joint Sealants
    ii. 09 5100 – Acoustical Ceilings
    iii. 09 5423 – Linear Metal Ceilings
    iv. 09 5426 – Suspended Wood Ceilings
    v. 09 8400 – Acoustical Decorative Panels

CC #09D - <u>RESILIENT FLOORING AND CARPET</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Resilient Flooring, Carpet, and Resilient Base work, including but not limited to the following:
b. Provide all materials required to install flooring and base items as indicated in the room finish schedule.
c. For existing areas, immediately upon award, communicate any requirements from flooring suppliers regarding the use of chemical mastic removal, cures, and/or any other floor preparation that may negatively affect the product and/or ability to provide warranty of the material.
d. Existing carpet and VCT to be removed by others.
e. Include all transitions between dissimilar flooring materials.
f. Minor floor prep shall be provided.
g. Include heat welding as specified.
h. Provide extra materials as noted.

i. Testing of new and existing floors to ensure compatibility with adhesives and proper moisture content.
j. Progressive and final cleanup of Contractor's work.
k. Generally covered by specification sections as follows:
    i. 09 0561 – Common Work Results for Flooring Preparation
    ii. 09 6500 – Resilient Base and Accessories
    iii. 09 6566 – Resilient Athletic Flooring
    iv. 09 6813 – Tile Carpeting

CC #09E - RESINOUS FLOORING

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Resinous Flooring work, including but not limited to the following:
b. Floor prep shall be provided.
c. Receive and offload all materials provided and installed by this Contract Category.
d. Progressive and final cleanup of Contractor's work.
e. Generally covered by specification sections as follows:
    i. 09 0561 – Common Work Results for Flooring Preparation
    ii. 09 6700 – Fluid-Applied Flooring

CC #09F - WOOD ATHLETIC FLOORING

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Wood Athletic Flooring work, including but not limited to the following:
b. Provide concrete floor preparation as necessary.
c. Install anchor plane assemblies for floor mounted sports equipment supplied by others.
d. Provide vapor proofing for concrete slab-on-grade.
e. Check moisture content, with approved meter, of concrete slab-on-grade and flooring materials to verify conformance with the specifications and manufacturer's requirements.
f. Provide all sleepers/nailers, subflooring, underlayment, felt, finished flooring, and any accessories requires to provide for a complete wood gymnasium floor system.
g. Provide floor base associated with the wood flooring.
h. Provide all sanding and finishing of the wood flooring.
i. Layout and provide all game lines and patterns as indicated on the drawings.
j. Provide and maintain floor protection during all phases of work and upon floor drying. Remove floor protection when directed by the Construction Manager.
k. Progressive and final cleanup of Contractor's work.
l. Generally covered by specification sections as follows:
    i. 09 0561 – Common Work Results for Flooring Preparation
    ii. 09 6466– Wood Athletic Flooring
    iii. 09 9300 – Staining and Transparent Finishing

CC #09G - PAINTING, COATING, AND WALL COVERING

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Painting, Coating, and Wall Covering work, including but not limited to the following:

b. Paint all interior & exterior exposed steel structures, lintels, and railings as noted on the drawings. Clean and prep prior to painting.
c. Clean and prepare all existing walls prior to painting to include filling and patching dings and deficiencies at walls and ceilings.
d. Paint walls, soffits, and ceilings as indicated on the Room Finish Schedule.
e. Wood doors to be factory finished by others.
f. Paint existing walls that have been patched due to renovation from corner of wall to corner of wall.
g. Provide sealing of concrete in rooms scheduled for sealed concrete finish. Include vacuum and wet mop of substrate prior to application.
h. Application of finish paint to any surface will indicate this Contractor's acceptance of the surface as being properly prepared for finish paint. Exceptions will be made for damage caused by other trades after final paint coat has been applied.
i. Prior to painting, provide protection to adjacent surfaces of dissimilar finishes.
j. Assure proper protection of items not to receive paint (sprinkler heads, data cables, etc.). Remove protection after completion of painting.
k. Provide extra VWC materials as noted.
l. Coordinate with (CC #09A) gypsum assemblies contractor to allow for spot touchups following application of prime coat.
m. Include additional (100) labor hours of paint touchups as directed by Construction Engineers and tracked with T&M tickets
n. Provide attic stock product as indicated - Provide new, unopened containers only. Dispose of extra product appropriately.
o. Progressive and final cleanup of the Contractor's work.
p. Generally covered by specification sections as follows:
    i. 03 3511 – Concrete Floor Finishes
    ii. 09 7200 – Wall Coverings
    iii. 09 9123 – Interior Painting (MPI Standards)
    iv. 09 9300 – Staining and Transparent Finishing
    v. 09 9600 – High-Performance Coating (MPI Standards)

CC #09H - <u>CONCRETE POLISHING</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Concrete Polishing work, including but not limited to the following:
b. Floor prep shall be provided.
c. Floor polishing and finishing.
d. Receive and offload all materials provided and installed by this Contract Category.
e. Application of finish product to any surface will indicate this Contractor's acceptance of the surface as being properly prepared.
f. Coordinate placement and requirements of slabs to be polished concrete with CC#03A – Building Concrete
g. Provide mock-ups as specified.
h. Progressive and final cleanup of Contractor's work.
i. Generally covered by specification sections as follows:
    i. 03 3536 – Polished Concrete Floor Finishing

CC #10A – OPERABLE PARTITIONS

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Operable Partition work, including but not limited to the following:
b. Provide field measurements.
c. Provide all components necessary to provide a complete functional system.
d. Progressive and final cleanup of the Contractor's work.
e. Generally covered by specification sections as follows:
    i. 10 2239 – Operable Partitions

CC #11A - FOOD SERVICE EQUIPMENT

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Food Service Equipment work, including but not limited to the following:
b. Provide new equipment.
c. Start-up all new equipment to ensure proper function.
d. Provide Owner training in use of new equipment.
e. Provide install of Owner provided existing equipment as specified.
f. Provide complete roofing system at walk-in cooler. (Expansion Joint by Others)
g. Cut reglet as required to connect roof structure to building.
h. Leave doors off of walk-in cooler and freezer until epoxy flooring installation is complete. Store doors off site in interim.
i. Roof rails or curbs for cooler/freezer condensing units to be provided by this contract category.
j. Provide above ceiling support structure as needed for kitchen exhaust hood
k. Progressive and final cleanup of the Contractor's work.
l. Generally covered by specification sections as follows:
    i. 11 4000 – Food Service Equipment

CC #11B - GYMNASIUM EQUIPMENT

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Gymnasium Equipment work, including but not limited to the following:
b. Provide Section 116623 – Gymnasium Equipment – complete.
c. Provide Gymnasium Dividers – complete.
d. Provide and install new goal posts as indicated at turf field.
e. Provide volleyball post inserts for install by CC #01A.
f. Include install of scoreboards noted as OFCI. Coordinate hook-ups with Electrical Contractor.
g. Provide pricing for wrestling mat lift under Alternate #10.
h. Provide wall padding throughout (notice wall padding is indicated in rooms outside of the gymnasium as well, e.g. keynote 13 on A700C and A701C)
i. Progressive and final cleanup of Contractor's work.
j. Generally covered by specification sections as follows:
    i. 11 6623 – Gymnasium Equipment

CC #12A - WINDOW TREATMENTS

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Window Treatment work, including but not limited to the following:
b. Provide field measurements.
c. Multiple mobilizations to job site.
d. Provide all components necessary to provide a complete functional system.
e. Assure that shade breaks line up with window mullions as best as possible. Shade breaks at glazing shall not be permitted unless approved in advance.
f. Progressive and final cleanup of the Contractor's work.
g. Generally covered by specification sections as follows:
    i. 12 2400 – Window Shades

CC #12B - BLEACHER SEATING

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Auditorium Seating work, including but not limited to the following:
b. Provide field measurements.
c. Provide full shop drawings for all components to be provided.
d. Multiple mobilizations to job site.
e. Progressive and final cleanup of the Contractor's work.
f. Generally covered by specification sections as follows:
    i. 12 6613 – Bleachers

CC #14A - ELEVATOR

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Elevator work, including but not limited to the following:
b. Provide all required permits to complete the work of this Contract Category.
c. Engineer, fabricate and deliver all elevator components.
d. Coordinate with all other contractors for complete functional systems.
e. Provide all core drilling required for the work of this Contract Category.
f. Provide miscellaneous metal components not shown on the architectural drawings, but required by code or required for the installation of your work.
g. Provide Owner training in use of new equipment.
h. The sample contract included in the specifications will be the contract executed with the selected elevator contractor.
i. Include an allowance of 20 hours of Elevator Operator time for other trades to utilize the elevator or work within the shaft.
j. Elevator contractor shall be responsible for all hoisting and unloading of their own equipment /materials.
k. Participate in fire alarm testing at project completion. Coordinate with fire alarm contractor for pre-testing and have representative on site for final fire alarm testing with AHJ.
l. Provide all inserts for the elevator shaft.
m. Progressive and final cleanup of the Contractor's work.
n. Generally covered by specification sections as follows:
    i. 14 2100 – Electric Traction Elevators

CC #21A - FIRE SUPPRESSION

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Fire Suppression work, including but not limited to the following:
b. Coordinate all fire protection installation with General, Plumbing, Ventilation, and Electrical contractors. Install all fire protection piping as high as possible. Provide all offsets to keep fire protection tight to the structure of ductwork above. Offset fire protection piping to avoid beams and installations by other trades.
c. Provide fire caulking/firestopping of all penetrations through fire rated assemblies.
d. Provide joint sealants as applicable to scope of work.
e. Provide all required permits to complete the work of this Contract Category.
f. Engineer, fabricate, and deliver all fire suppression components.
g. Coordinate with Mechanical and Electrical Contractors for complete functional systems.
h. Provide all core drilling required for the work of this Contract Category.
i. All exposed piping shall be provided ready to receive paint.
j. Remove and re-install ceiling tiles as required to complete installation work included in this Contract Category. Any ceiling tile or grid damaged during construction shall be replaced with new by this contractor.
k. Contractor to make penetrations to existing walls and/or ceilings for installation of new fire protection piping, sprinkler heads, equipment, etc.. Provide escutcheons at wall/ceiling penetrations. Patch walls and/or ceilings to match existing.
l. Provide dry system for unheated spaces, as necessary.
m. Provide Owner training in use of new equipment.
n. Provide ADD alternate for the supply and installation of a fire pump, if necessary.
o. Coordinate system disturbances/outages with Construction Manager and Owner.
p. Verify available water pressure and notify CM if inadequate.
q. Provide all access doors and panels required for access to equipment & valves related to this Contract Category.
r. Include labelling of all firestopped penetrations through rated assemblies.
s. Progressive and final cleanup of the Contractor's work.
t. Generally covered by specification sections as follows:
    i. 07 8413 – Penetration Firestopping
    ii. 07 9200 – Joint Sealants
    iii. 08 3100 – Access Doors and Panels
    iv. Division 21

CC #22A/23A - PLUMBING AND HVAC

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Mechanical and Plumbing work, including but not limited to the following:
b. Provide fire caulking/firestopping of all penetrations through fire rated assemblies.
c. Provide joint sealants as applicable to scope of work.
d. Include acoustical sealants at penetrations where required by wall assembly
e. Provide all required permits to complete the work of this Contract Category.
f. Provide required testing, such as pressure and disinfection testing of newly installed water services.
g. Demolition of existing mechanical and plumbing items as noted.
h. Remove and re-install ceiling tiles to complete installation work included in this Contract Category. Any ceiling tile or grid damaged during construction shall be replaced with new by this contractor.

i. Provide piping from interior of building to utility connections 5 feet outside of building.
j. Provide flange at water service for fire suppression system connection.
k. Provide all core drilling required for the work of this Contract Category.
l. Provide $20,000 allowance for set up and take down of temporary heating equipment, including any required permits.
m. Provide all controls and control wiring for mechanical equipment.
n. Provide all mechanical louvers, factory finished.
o. Provide all piping and duct insulation.
p. Provide all hoisting equipment needed to set all rooftop equipment after erection of all steel and installation of roofing.
q. Provide all mechanical pads required for equipment in this Contract Category.
r. Provide all mechanical pads and enclosures for ground mounted air handling units.
s. Provide and install all mechanical curbs and boots required.
t. Provide Owner training in use of new equipment.
u. Provide all gas piping from the meter inside the building.
v. Ductwork in room(s) with exposed, painted ceilings shall be provided ready to receive paint.
w. Provide rain leaders as construction progresses to limit water within incomplete building.
x. Provide all access doors and panels required for access to equipment & valves related to this Contract Category.
y. Provide all water/glycol for the mechanical system.
z. Provide finish sealants at all fixtures.
aa. Assure conformance with specified ceiling heights and allow room for access to equipment requiring access for maintenance. Coordinate in advance if any conflicts exist or if any deviations are required.
bb. Coordinate and provide start-up, testing & balancing, and adjustment of system to meet manufacturer and specified requirements prior to completion.
cc. Provide temporary accommodations to run air handlers during construction for finishes or provide temporary climate control with utilization of temporary equipment.
dd. Where penetrations are made at hollow core – coordinate with supplier to avoid cable strands. Coordinate in advance for large penetrations.
ee. Provide roof/floor opening sizes and layouts dimensioned from gridline.
ff. Provide and install Sump pit. Tie into drain tile installed by Others. Coordinate install of Sump Pit with CC #03A Building Concrete.
gg. Provide blockout/sleeve materials and layout for penetrations through foundation walls. Install of blockouts/sleeves by (CC #03A) concrete contractor.
hh. Include head and sill flashing as indicated (16. & 26/A504)
ii. Include VFD's as necessary for equipment provided under this category.
jj. Provide fume hood(s) as indicated.
kk. Include labelling of all firestopped penetrations through rated assemblies.
ll. Coordinate system disturbances/outages with Construction Manager and Owner.
mm. Include installation of equipment provided by others in food service area (reference schedule on QF101)
nn. Provide cutting of openings in roof and floor decking as required for work of this contract category
oo. Progressive and final cleanup of the Contractor's work.
pp. Generally covered by specification sections as follows:
    i. 07 8413 – Penetration Firestopping
    ii. 07 9200 – Joint Sealants

iii. 08 3100 – Access Doors and Panels
iv. 11 5313 – Laboratory Fume Hoods
v. Division 22
vi. Division 23

CC #26A - <u>ELECTRICAL AND LOW VOLTAGE</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Electrical work, including but not limited to the following:
b. Provide fire caulking/firestopping of all penetrations through fire rated assemblies.
c. Provide joint sealants as applicable to scope of work.
d. Include acoustical sealants at penetrations where required by wall assembly
e. Provide all required permits to complete the work of this Contract Category.
f. Provide sufficient temporary lighting.
g. Provide all trenching for site lights.
h. Provide all electrical pads required for equipment in this Contract Category.
i. Provide generator and transformer pads. Assure coordination & compliance with utility company requirements.
j. Demolition of existing electrical, fire alarm, and communication items indicated on the Electrical Demolition Plan.
k. Provide safe and legal disposal of all removed fixtures.
l. Coordinate installation of new electrical service with local utility company. Any costs associated with getting new service into the building but not directly billed to the Owner shall be provided by this Contract Category.
m. Provide all core drilling required for the work of this Contract Category.
n. Remove and re-install ceiling tiles as required to complete installation work included in this Contract Category. Any ceiling tile or grid damaged during construction shall be replaced with new by this contractor.
o. Provide all data wiring and terminations.
p. Provide all fire alarm components noted.
q. Provide all clock system and public address system components, including adjustments to existing systems.
r. Provide materials and services required as noted in lighting plan.
s. Provide all concrete curbs required.
t. All controls and control wiring for mechanical equipment are by others.
u. Provide Owner training in use of new equipment.
v. Provide alternate for the wiring associated with a fire pump, if necessary.
w. Assist in set up and take down of temporary heating equipment.
x. Provide all access doors and panels required for access to equipment & valves related to this Contract Category.
y. Provide all related digging, forming, proper locating, and placement of exterior light fixtures and poles, including concrete bases.
z. Provide all trenching, excavation, backfill and compaction for interior and exterior conduits required in this Contract Category.
aa. Provide core drilling for all underground electrical through foundations as necessary.
bb. TV mounts to be provided and installed by Owner. Coordinate with rough-ins as necessary.

cc. Coordinate and provide start-up, testing, and adjustment of system to meet manufacturer and specified requirements prior to completion.
dd. Furnish, install, and remove temporary electrical power at locations necessary to be used by other multiple trades to complete their scope of work.
ee. Furnish, install, and remove temporary lighting throughout the building. Light shall be adequate to allow other trades to complete their work.
ff. Provide coordination with operable window shades to assure proper rough-in locations and connections.
gg. Assure compliance to the overall schedule provided to allow required completion of activities associated with this Contract Category. Assure necessary overtime hours and manpower is provided to meet the requirement of the overall schedule. Provide dedicated crews and manpower when multiple simultaneous tasks must take place under this Contract Category.
hh. Provide labeling at all receptacles to match breakers and also indicate emergency power and/or GFCI protection.
ii. Drill tapcon fasters or similar to hollow core plank when fastening to hollow core for light fixtures. Shooting in fasteners is not permitted.
jj. Include provisions for and hook-up of scoreboards noted as OFCI.
kk. Include labelling of all firestopped penetrations through rated assemblies.
ll. Coordinate system disturbances/outages with Construction Manager and Owner.
mm. Provide wire guards at devices where indicated.
nn. Progressive and final cleanup of the Contractor's work.
oo. Generally covered by specification sections as follows:
    i. 07 8413 – Penetration Firestopping
    ii. 07 9200 – Joint Sealants
    iii. 08 3100 – Access Doors and Panels
    iv. Divisions 26, 27, & 28

CC #31A - <u>EARTHWORK</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment and other incidental items of cost to complete all Sitework, including but not limited to the following:
b. Erosion control, soil stabilization, slope protection and their maintenance until final stabilization and acceptance by the Construction Manager. This package includes all work required to abide by the requirements of the Storm Water Pollution Prevention Plan (SWPPP) associated with only this Project and approved by the State of North Dakota. The Construction Manager will be responsible for acquiring the SWPPP Permit. Any fines levied due to lack of erosion control and maintenance will be the responsibility of this Contractor.
c. Construction of temporary roads, parking areas, and lay down areas as indicated on the Site Logistics Plan. Maintenance of all temporary roads and hardstand areas, including grading, dust control, and snow removal. At project completion and as directed by the Construction Manager, remove all temporary hardstand surfaces and return areas to original condition.
d. Temporary grassing to all disturbed areas and its maintenance.
e. Contractor shall be responsible for coordinating with all utility companies for the location of buried and overhead utilities prior to excavation whether shown on the plans or not shown, as necessary to accommodate proposed construction.
f. Provide and arrange barricades and signage to accommodate site work and facilitate traffic control as required to perform this scope of work.

g. Contractor shall maintain vehicle and pedestrian access to private and public areas at all times.
h. Provide daily street cleaning during construction periods in which earthwork activities occur.
i. Provide and pay for all temporary utilities necessary for the scope of work within this Contract Category.
j. Contractor shall maintain the pavement section with construction methods that will maintain the integrity of the subgrade during subsequent pavement placement operations within ± 1 inch.
k. Site preparation, site clearing, site demolition, removal of existing trees and landscaping as indicated and protection of existing trees and landscaping as indicated. Contractor shall replace any trees or shrubs that are damaged and not deemed for removal with similar size and species at the expense of the Contractor.
l. Restore all areas to preconstruction conditions or better.
m. Demolish existing site items as scheduled within the site demolition plan.
n. Pavement removal – Full depth saw cut to all pavement to be removed. Sawcut at existing joints to facilitate concrete removal. Sawcut existing pavement to allow clean tie-in to adjacent surfaces or new pavement.
o. Lawful offsite disposal of all debris as a result of this Contractor's work.
p. Import approved topsoil, bedding and structural fill materials as necessary.
q. Unsuitable soils shall be removed underneath all foundation concrete and replaced with structural fill materials, over excavate as required.
r. Excavate, haul off site, and lawfully dispose of all unsuitable soils that will not be reused on the Project Site.
s. All sitework grading.
t. Structural excavation, backfill, and compaction for all building foundations, concrete slab-on-grade, and site concrete.
u. Provide excavation for retaining wall.
v. Provide and install drain tile around the new foundation and elevator pit for connection into sump pits as required. Backfill with appropriate material once installed. Coordinate connection with CC #22/23A.
w. Provide and install drain tile at the new turf field.
x. Provide and place aggregate base materials for areas scheduled for all site pavement, roadway, sidewalk and curbs.
y. Provide and stockpile sand cushion materials within building footprint to be spread out by CC #03A.
z. Provide and place all geotextile fabric and thrust blocks required under this scope of work.
aa. Provide any geotextile fabric required beneath the aggregate base.
bb. Provide geotextile fabric under parking and drive areas.
cc. Dewatering of site and excavations.
dd. Include costs to provide frost free structural fill materials for backfill if this work is to be completed in winter conditions.
ee. Provide bridging indicated at track to turf field and maintain as necessary. Assure appropriate protection to existing track. Provide removal upon completion.
ff. All stockpiled topsoil should be assumed to be trucked off site and trucked back to the site once it can be spread for the final placement.
gg. Provide curb cuts as indicated. Coordinate with CM.
hh. Multiple crews as necessary to work on building foundations and turf related earthwork concurrently.
ii. Assure provisions to complete bus loop revision summer of 2026.

jj. All work for the new school shall be in accordance with the Geotechnical Report prepared by AET dated 11/21/2025.
kk. All work at Hanna Field shall be in accordance with the Geotechnical Report prepared by Terracon dated 11/01/2016.
ll. Provide and install pressure treated 2" x 4" Wood Nailer at artificial turf field per detail (3/C902).
mm. Provide highway guardrail with embedded beams as indicated.
nn. Include provisions as per specification section 01 5000 - Temporary Facilities and Controls (site logistics plan).
oo. Progressive and final cleanup of the Contractor's work.
pp. Generally covered by specification sections as follows:
    i. Divisions 31, 32, and 33 (See Civil Sheets)

CC #32A - <u>ASPHALT PAVING</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment, and other incidental items of cost to complete all Bituminous / Asphalt Paving work, including but not limited to the following:
b. All Site bituminous paving including parking lots and driveways.
c. Provide fine grading of base materials installed by others.
d. Provide asphalt paving in parking areas.
e. Provide pavement striping.
f. Provide sealants at paved areas.
g. Include multiple mobilizations per construction schedule.
h. Assure provisions to complete bus loop revision summer of 2026.
i. Progressive and final cleanup of the Contractor's work.
j. Generally covered by specification sections as follows:
    i. Division 32 – Bituminous Pavement (See Civil Sheets)

CC #32B - <u>SITE CONCRETE</u>

a. Provide supervision, layout, shop drawings, labor, material, equipment, and other incidental items of cost to complete all Site Concrete work, including but not limited to the following:
b. All site concrete work including parking areas, driveways, concrete walks, curb and gutter, walkways, ramps, pads, and steps with forming, reinforcement, and accessories.
c. Provide fine grading of base materials installed by others.
d. Provide keyways as indicated.
e. Provide all reinforcing and dowels as shown/specified.
f. Provide all detectable inserts/surfaces in concrete pavement.
g. Provide all saw cutting of concrete in patterns indicated.
h. Provide and install all expansion joint and sealants at control joints included in this Contract Category.
i. Provide any tooling patterns in concrete shown.
j. Price alternate for providing concrete pavement in lieu of asphalt pavement in parking areas. Include striping as indicated on plans.
k. Assure provisions to complete bus loop revision summer of 2026.
l. Price alternate for providing concrete pavement in lieu of asphalt pavement in parking areas. Include striping as indicated on plans.

m. Concrete testing is by the Construction Manager. Provide assistance if required, to the testing company.
n. Progressive and final cleanup of the Contractor's work.
o. Generally covered by specification sections as follows:
    i. Division 32 – Concrete Paving (See Civil Sheets)

CC #32C - LANDSCAPING

a. Provide supervision, layout, shop drawings, labor, material, equipment, and other incidental items of cost to complete all Landscaping and Irrigation work, including but not limited to the following:
b. Provide and backfill retaining wall, include supply of the fill materials to backfill the wall.
c. Excavation of the retaining wall shall be by others.
d. Provide and install rock in areas indicated.
e. Provide and install mulch in areas indicated.
f. Provide and install all plantings.
g. Repair areas damaged by construction by seeding.
h. Maintain seeded/sodded areas after planting for the duration indicated in specifications.
i. Provide segmented block retaining walls as indicated.
j. Topsoil to be placed by others. Include fine grading of top soil.
k. Provide temporary watering of landscaping and plantings as required
l. Progressive and final cleanup of the Contractor's work.
m. Generally covered by specification sections as follows:
    i. Division 32 – Landscaping & Seeding (See Civil Sheets)

CC #33A - UTILITIES

a. Provide supervision, layout, shop drawings, labor, material, equipment, and other incidental items of cost to complete all Utilities work, including but not limited to the following:
b. Contractor shall be responsible for coordinating with all utility companies for the location of buried utilities prior to excavation whether shown on the plans or not shown, as necessary to accommodate proposed construction.
c. Remove existing sanitary sewer lines and manholes as indicated on the drawings. Include removal/replacing inverts and core drilling holes in existing manholes.
d. Contractor to include removal or filling abandoned lines with CDF.
e. Contractor to include all exterior sanitary sewer, water main, and storm water work within 5 feet of the building and according to the Utility Plan. Include all trenching, backfill, and compaction. Contractor must coordinate elevations with Plumbing contractor.
f. Contractor to include gate valves, tapping tees and any other components required to make connections to existing piping.
g. Provide all bedding materials for utility piping.
h. Tie into existing structures as noted.
i. Contractor to include exploratory work as necessary to confirm invert elevations.
j. Provide barricades and signage, and arrange to close streets as required to complete the contracted work.
k. Pavement removal – Full depth saw cut all pavement to be removed. Sawcut at existing joints to facilitate concrete removal as required. Sawcut existing pavement, as required, to allow clean tie-in

to adjacent surfaces or new pavement. Contractor to include patching of existing streets, sidewalks, bike paths, and curbs as required for any utility tie-in connections, if necessary.

l. Provide daily street cleaning during construction periods in which utility activities occur.
m. Provide and pay for all temporary utilities necessary for the scope of work within this Contract Category.
n. Provide required testing, such as pressure and disinfection testing, of newly installed water services.
o. Provide cleaning of utilities if required.
p. Includes restoration of disturbed areas, to include compaction of trenches, re-spreading of topsoil, and seeding of grass to previous condition.
q. Utility excavations to be shielded and/or shored as necessary.
r. Remove and haul off site excess spoils associated with utility work.
s. Assure multiple crews as necessary to work on Building and Field Turf related utilities concurrently to meet schedule requirements.
t. Maintain OSHA required clearances from overhead power lines.
u. Design and submit a traffic control plan for work taking place within City streets.
v. Progressive and final cleanup of the Contractor's work.
w. Generally covered by specification sections as follows:
    i. Division 31 – Earthwork (See Civil Sheets)
    ii. Division 33 – Utilities (See Civil Sheets)

SECTION 01 2300
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

B. Procedures for pricing Alternates.

C. Documentation of changes to Contract Sum and Contract Time.

1.02 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.03 SCHEDULE OF ALTERNATES

A. See list of Alternates in the Drawings.

B. Alternate No. 1 - Jefferson Admin Office + Restroom
   1. Base Bid: No Work.
   2. Alternate: Jefferson Admin. reno of classrooms - Area F and ADA Restroom reno of Storage - Area E.

C. Alternate No. 2 - STEAM Classroom
   1. Base Bid: No Work.
   2. Alternate: Reno, remove wall, add casework.

D. Alternate No. 3 - Parking Lot
   1. Base Bid: Asphalt.
   2. Alternate: Concrete.

E. Alternate No. 4 - Wenger Cabinets
   1. Base Bid: Casework as indicated in Plans.
   2. Alternate : Provide Wenger furniture in lieu of plastic laminate casework.

F. Alternate No. 5 - Acoustical Ceiling Panels
   1. Base Bid: No Work.
   2. Alternate: Provide SCU-1 as inciated on Reflected Ceiling Plans.

G. Alternate No. 6 - Concrete Patio South of the Commons
   1. Base Bid: No Patio.
   2. Alternate 6A: Patio.
   3. Alternate 6B: Extended Patio

H. Alternate No. 7 - Exterior Rope Lighting
   1. Base Bid: No Work.
   2. Alternate: Provide lights as indicated on Roof Plan and Electrical Drawings.

I. Alternate No. 8 - Monument on South Side
   1. Base Bid: No Work.
   2. Alternate: VC Monument - See Architectural Site Plan and Electrical Drawings.

J. Alternate No. 9 - Food Service Equipment
   1. Base Bid: ~~Equipment as shown on QF101 status labeled ALT 9 in Schedule.~~ No Work.

~~2. Alternate: Provide equipment listed as Future and represented as a filter projecting equipment with blue dashed lines.~~

2. Alternate 9A: A La Carte equipment as noted on equipment schedule.
3. Alternate 9B: A La Carte Counters as noted on equipment schedule.

K. Alternate No. 10 - Gym Wrestling Mat Lifts
   1. Base Bid: No Work.
   2. Alternate: Provide wrestling mat lifts.

L. Alternate No. 11 - Exterior Precast Wall Finish
   1. Base Bid: Acid etch finish.
   2. Alternate: Polished concrete finish.

M. Alternate No. 12 - Area C Classrooms
   1. Base Bid: Include classrooms as shown.
   2. Alternate: Remove 4 classrooms.

N. Alternate No. 13 - Weight Room
   1. Base Bid: Include Weight Room as shown.
   2. Alternate: Remove Weight Room.

O. Alternate No. 14 - VC Exterior Signage at Music
   1. Base Bid: No Work.
   2. Alternate: Alumacorr signage.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01 2300

SECTION 03 4500
PRECAST ARCHITECTURAL CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Architectural pre-stressed concrete wall panels (PC-#):
   1. Integrally insulated
   2. Solid

B. Supports, anchors, and attachments.

C. Grouting under panels.

D. Shim space spray-foam insulation and joint sealants.

E. Flashing.

1.02 RELATED REQUIREMENTS

A. Section 03 3000 - Cast-in-Place Concrete: Admixtures.

B. Section 05 12 00 - Structural Steel Framing

C. Section 14 2100 - Electric Traction Elevators: for hoistway rail embeds to precast concrete.

1.03 REFERENCE STANDARDS

A. ACI CODE-318 - Building Code Requirements for Structural Concrete and Commentary.

B. ACI 301 - Specifications for Concrete Construction.

C. ACI 318 - Building Code Requirements for Structural Concrete.

D. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings.

E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.

F. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

G. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

H. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts.

I. ASTM A563M - Standard Specification for Carbon and Alloy Steel Nuts (Metric).

J. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.

K. ASTM A767/A767M - Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement.

L. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete.

M. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete.

N. ASTM C33/C33M - Standard Specification for Concrete Aggregates.

O. ASTM C150/C150M - Standard Specification for Portland Cement.

P. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete.

Q. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

R. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete.

S. ASTM C1088 - Standard Specification for Thin Veneer Brick Units Made from Clay or Shale.

T. AWS D1.1/D1.1M - Structural Welding Code - Steel.

U. PCI MNL-117 - Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products.

V. PCI MNL-120 - PCI Design Handbook.

W. PCI MNL-122 - Architectural Precast Concrete.

X. PCI MNL-123 - Connections Manual: Design and Typical Details of Connections for Precast and Prestressed Concrete.

Y. PCI MNL-135 - Tolerance Manual for Precast and Prestressed Concrete Construction.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene two weeks prior to commencing work of this section.
   1. Review shop drawings and installation details.
   2. Anchor and weld plate locations.
   3. Opening locations including those cut in the field.
   4. Limitations on field cutting and core drilling.
   5. Site access requirements and obstructions including but not limited:
      a. Access roads and maintenance thereof.
      b. Protection and repair of existing paving.
      c. Dewatering of footing trenches.
      d. Job site snow removal.
      e. Job site debris removal.
      f. Overhead obstructions including power lines.
   6. Cold weather grouting requirements and expectations.
   7. Cleaning responsibilities and expectations.

B. Coordinate cast-in electrical devices, conduit, mechanical and plumbing items and penetrations, openings, loose hardware such as recessed key boxes and anchorage items to be embedded in, attached to or that penetrate panels. Provide setting diagrams, templates, instructions, and directions, as required, for installation.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's information on accessory products, including pigments, admixtures, inserts, plates, etc.

C. Shop Drawings: Indicate layout, unit locations, configuration, unit identification marks, reinforcement, integral insulation, insulated panel system connectors, connection details, support items, location of lifting devices, dimensions, openings, and relationship to adjacent materials.
   1. Include details of mix designs.
   2. Include structural design calculations.
   3. Include locations of embedded MEPT items.

D. Samples: Submit two face samples for each type, 12 x12 inch in size, illustrating surface finish, color and texture.

E. Integrally Insulated Panel System Manufacturer's Installation Instructions: Submit manufacturer's current installation instructions for system specified. Certify that copies are available at fabrication site prior to start of precast fabrication

F. Fabricator's Qualification Statement: Provide documentation showing precast concrete fabricator is accredited under IAS AC157.

G. Integrally Insulated Panel System Design Data:
   1. Thermal Bowing and Crack Mitigation: Submit drawing details and written procedures for mitigation and repair of bowing and cracking in insulated concrete panels without full-thickness concrete sections or metallic connectors between wythes.

1.06 QUALITY ASSURANCE

A. Design Engineer Qualifications: Design precast concrete units under direct supervision of a Professional Structural Engineer experienced in design of precast concrete and licensed in the State in which the Project is located.

B. Fabricator Qualifications:
   1. Firm having at least 5 years of documented experience in production of precast concrete of the type required.
   2. Plant certified under Precast/Prestressed Concrete Institute Plant Certification Program; product group and category AC - Architectural Precast Concrete.
   3. Plant certified under Architectural Precast Association Plant Certification Program for production of architectural precast concrete.

C. Erector Qualifications: Erector needs to follow PCI certified installation requirements and procedures. Precast units shall be erected by an experienced erector who upon request of the design team shall submit evidence of successful erection of precast under similar job conditions. Erector's workman shall be properly trained to handle and erect precast units.

D. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and no more than 12 months before start of scheduled welding work.

1.07 MOCK-UPS

A. Provide one mock-ups, each 10 feet long by 10 feet wide, with lifting device, and attachment points, and finish in accordance with approved sample. See elevation A211 for precast

B. Include mock-up panel with typical window, insulated panel, sealants, and including all finishes.

~~C. Locate where directed.~~ As indicated on Architectural Site Plan.

~~D.~~C. Mock-up will remain as part of the Work.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Handling: Lift and support precast units only from support points located on sides of panel.

B. Blocking and Lateral Support During Transport and Storage: Use materials that are clean, non-staining, and non-harmful to exposed surfaces. Provide temporary lateral support to prevent bowing and warping.

C. Protect units to prevent staining, chipping, or spalling of concrete.

D. Mark units with date of production in location that will be concealed after installation.

1.09 FIELD CONDITIONS

A. Prepare and maintain site free of obstructions as required by precast erector for the work of this section.

1.10 WARRANTY

A. Provide 1 year warranty against cracking, spalling or delamination of panel faces. Defects occurring during the warranty period shall be repaired per the requirements of the appropriate PCI MNL documents.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Architectural Precast Concrete:
   1. Taracon Precast: www.taraconprecast.com.
   2. Gage Brothers: www.gagebrothers.com.
   3. Molin Concrete Products: www.molin.com
   4. Wells Concrete: www.wellsconcrete.com.
   5. Any manufacturer holding a PCI Group A Plant Certification for the types of products specified; see www.pci.org/#sle.
   6. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PRECAST UNITS, GENERAL

A. Precast Architectural Concrete Units: Comply with PCI MNL-120, PCI MNL-122, PCI MNL-123, PCI MNL-135, and ACI CODE-318.
   1. Concrete: Minimum 5000 psi, 28 day strength, air entrained to 5 to 7 percent; comply with ACI 301.
   2. Design Loads: Static loads, anticipated dynamic loading, including positive and negative wind loads, thermal movement loads, and erection forces as indicated on structural drawings.
   3. Calculate structural properties of units in accordance with ACI CODE-318.
   4. Limit use of fly ash and ground granulated blast-furnace slag to 20 percent of portland cement by weight; limit metakaolin and silica fume to 10 percent of portland cement by weight.
   5. Accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
   6. Provide connections that accommodate building movement and thermal movement and adjust to misalignment of structure without unit distortion or damage.
   7. Fire Resistance Ratings: As indicated on drawings.

B. Finishes - Typical: Ensure exposed-to-view finish surfaces of precast units are uniform in color and appearance.

C. Architectural Finishes:
   1. Finish: Fins and protrusions removed, ground edges and ends, flat face surfaces.
   2. Finish Type (PC-1): Thin brick veneer. Remove excess concrete from joints and faces of thin brick units. Protect adjacent surfaces. See Exterior Material Legend for brick color and pattern.
   3. Finish Type (PC-2, PC-3): Mix of acid etch and sand blast finish. See Precast Elevations. Alternate #11 acid etch finish to be replaced with polished concrete finish.
   4. Acid Etched: Use acid and hot-water solution, equipment, application techniques, and cleaning procedures to expose aggregate and surrounding matrix surfaces to match accepted sample or mockup units. Protect hardware, connections, and insulation from acid attack.
   5. Sandblast finish: Use abrasive grit, equipment, application techniques, and cleaning procedures to exposed aggregate and surrounding matrix surfaces to match accepted sample or mockup units.
   6. Honed Finish: Use continuous mechanical abrasion with fine grit, followed by filling and rubbing procedures to match approved range of samples and full-size mockups.
      a. 800-1400 Grit Polished

D. Top (backside/interior) Finish:
   1. 5 pass power trowel.

2.03 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
   1. Deformed billet-steel bars.
   2. Galvanized in accordance with ASTM A767/A767M, Class I.

B. Prestressing Strand: ASTM A 416/A 416M, Grade 270 (Grade 1860), uncoated, seven-wire, low-relaxation strand.

C. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.
   1. Form: Flat Sheets.
   2. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.

2.04 FLASHINGS

A. Metal Flashing Materials:
   1. Stainless Steel Flashing: ASTM A666/A666M, Type 304, soft temper; 26 gauge, 0.0187 inch thick; finish 2B to 2D.

2. Prefabricated Metal Flashing: Smoothfabricated 12 oz/sq ftstainless steel (type 304) flashing for surface mounted conditions.
    a. a. Manufacturers:
        1) Cheney Flashing Company: www.cheneyflashing.com/#sle.
        2) Hohmann & Barnard, Inc: www.h-b.com/#sle.
        3) WIRE-BOND: www.wirebond.com/#sle.
        4) W.R. Meadows

B. Membrane Non-Asphaltic Flashing Materials:
1. EPDM Flashing: ASTM D4637/D4637M, Type I, 0.040 inch thick.
    a. Manufacturers:
        1) Elevate; Enverge FlashGard Thru-Wall Flashing: www.holcimelevate.com/#sle.
        2) Heckmann Building Products, Inc: www.heckmannbuildingprods.com/#sle
        3) Hohmann & Barnard, Inc: www.h-b.com/#sle.
        4) WIRE-BOND: www.wirebond.com/#sle.
        5) Substitutions: See Section 01 6000 - Product Requirements.

C. Flashing Sealant/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.

D. Termination Bars: Stainless steel; compatible with membrane and adhesives.

E. Drip Edge: Stainless steel; angled drip with hemmed edge; compatible with membrane and adhesives.

F. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.

2.05 CONCRETE MATERIALS

A. Mix Design for PC-1: See 03 4100 Precast Structural Concrete for standard gray concrete color and mix design.

B. Mix Design for PC-2 and PC-3:
1. 100% Gray Cement (St. Gen)
2. 1678 lbs MM 3/4 inch Washed Chip (YM Quarry)
3. 950 lbs MM Washed Sand (YM Quarry)
4. 288 lbs Kafka Jett Black 18- (Mason Sand)
5. DCS #620 Charcoal @ 5%

C. Cement: ASTM C150/C150M, Type I - Normal Portland type.

D. Fine and Coarse Structural Aggregates: ASTM C33/C33M, except as modified by PCI MNL 117, with coarse aggregates complying with Class 5S.

E. Surface Finish Aggregate: Clean, washed natural crushed limestone; size as indicated in Mix Design, Fertile Limestone color, from single source throughout. Select aggregates for freedom from ferrous or other deleterious materials.

F. Color Additives: Pure, concentrated mineral pigments specifically intended for mixing into concrete and complying with ASTM C979/C979M.
1. Concentration: Base dosage rates on weight of Portland cement, fly ash, silica fume, and other cementitious materials but not aggregate or sand.
2. Color(s): See mix designs.
3. Manufacturers:
    a. Butterfield Color: www.butterfieldcolor.com.
    b. Davis Colors: www.daviscolors.com.
    c. Lambert Corporation: www.lambertusa.com.
    d. Substitutions: See Section 01 6000 - Product Requirements.

G. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.

H. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and to not contain calcium chloride, or more than 0.15 percent chloride ions or other salts by weight of admixture.

I. Air Entrainment Admixture: ASTM C260/C260M.

J. Cement Grout: Type I (ASTM C150 / C150M), “Dry Pack”, portland cement, sand and water having a minimum of 3,000 psi compressive strength at 28 days. (Approximately 3 to 1 sand/cement ratio.) Use “Cement Grout” unless “Non-Shrink Cement Grout” is specifically indicated by precast or structural engineer.

K. Non-Shrink Cement Grout: Per ASTM C1107/C1107M, Type III (ASTM C150 / C150M), “Dry Pack”, portland cement, sand, and water having a minimum of 10,000 psi compressive strength at 28 days.

2.06 THIN BRICK

A. Thin Brick: ASTM C1088.
   1. Type: TBX.
   2. Size: Manufacturer's standard Modular.
   3. Thickness: 5/8 inch.
   4. Tolerances: 1/16 inch.
   5. Back Surface Texture: Scored, combed, wire roughened, ribbed, keybacked, or dovetailed.
   6. Color, texture, range, special shapes: As indicated on drawings in Exterior Material Legend.
   7. Protective Coating: Wax.

2.07 SUPPORT DEVICES

A. Connecting and Support Devices; Anchors and Inserts: ASTM A36/A36M steel; hot-dip galvanized in accordance with ASTM A153/A153M.
   1. Clean surfaces of rust, scale, grease, and foreign matter.
   2. Galvanize after fabrication in accordance with requirements of ASTM A123/A123M.

B. Bolts, Nuts, and Washers: ASTM F3125/F3125M heavy hex structural bolts, Type 1, zinc coated, with matching ASTM A563 (ASTM A563M) nuts, and washers as follows:

C. Embedded Plates: Supply embedded plates required for connection to cast-in-place concrete to the General Contractor. Embedded plates will be installed by the General Contractor in accordance with details and locations shown on a drawing provided by the precast supplier.

2.08 INTEGRALLY INSULATED PANEL SYSTEM (PIN CONNECTORS)

A. Integrally Insulated Panel System: Precast concrete panel formed from two layers of concrete with continuous rigid insulation and non-conducting pin connectors between layers.
   1. Panel Type: Structurally composite.
   2. Connectors: System manufacturer's standard; corrosion- and alkali-resistant, glass fiber reinforced, vinyl ester composite pultrusions with serrated profile, and thermoplastic depth-limiting and sealing collar.
   3. Continuous Insulation: Rigid extruded polystyrene (XPS) board insulation, ASTM C578, Type IV; factory fabricated with holes or slots for connectors having manufacturer-designated size and spacing.
   4. Design and construct panels to maintain overall R-value of 15, with less than one percent change due to penetrations and connections, when calculated in accordance with ASHRAE Std 90.1 I-P, isothermal planes method.
   5. Configurations: as indicated in drawings.
   6. Blocking: Treated wood 2x blocking to be installed at the insulation space at all ednge of panel conditions except at structural connections and precast to precast connections. Examples of locations are window and door openings, top of panel/ parapet connections.

2.09 FABRICATION

A. Fabricate in compliance with PCI MNL-117 and PCI MNL-135.

B. Maintain plant records and quality control program during production of precast units. Make records available upon request.

C. Maintain consistent quality during manufacture.

D. Fabricate connecting devices, plates, angles, items fit to steel framing members, inserts, bolts, and accessories. Fabricate to permit initial placement and final attachment.

E. Embed reinforcing steel, anchors, inserts plates, angles, and other cast-in items.

F. Integrally Insulated Panel System: Comply with manufacturer's written installation instructions.

G. Locate hoisting/picking/handling devices to permit removal after erection. Hoisting/picking/handling devices should only be located in the top or jamb/edge of the panel. Face picks are prohibited.

H. Cure units to develop concrete quality, and to minimize appearance blemishes such as non-uniformity, staining, or surface cracking.

I. Minor patching in plant is acceptable, providing structural adequacy and appearance of units is not impaired.

J. Haunches are not preferred at panel joints above openings.

2.10 FABRICATION TOLERANCES

A. Conform to PCI MNL-117 and PCI MNL-135.

2.11 ACCESSORIES

A. Bearing Pads: The PCI Design Handbook, Second Edition, Part 5.1 through Part 5.5 shall be used for the design of bearing pads.

B. Vapor retarder tape: Dow Saran 560, apply continuous to all insulation joints (on interior face of wall).

C. Joint Insulation: Foamed-in-Place insulation for filling exterior wall crevices.
   1. Shim Space Insulation: Polyurethane type, single component spray foam system, reduced expansion spray foam system; semi-rigid; closed cell.
      a. Thermal Value (R), Minimum: 5.50 per inch, when tested in accordance with ASTM C 518.
      b. Density: 1.3 lb/cu ft, when tested in accordance with ASTM D 1622.
      c. Flame Spread: 20, when tested in accordance with UL 1715 Fire Test.
      d. Smoke Development: 25, when tested in accordance with UL 1715 Fire Test.
      e. Product:
         1) Dow: Froth-Pak
         2) Substitutions: See Section 01 60 00 - Product Requirements.
   2. Primer: As required by spray-foam insulation manufacturer.

D. General Purpose Exterior Sealant: Polyurethane; ASTM C 920, Grade NS, Class 25, Uses M, G, and A; two-component, gun grade.
   1. Color: Standard colors matching finished surfaces, as selected by Architect.
   2. Applications: Joints between precast panels, interior and exterior faces.
   3. Product:
      a. BASF/Master Builders Solutions: MasterSeal NP 2
      b. Tremco; Dymeric 240FC
      c. Pecora; Dynatrol II
      d. **BASIS OF DESIGN:** Sika Corporation; Sikaflex 2C NS EZ
      e. Substitutions: See Section 01 60 00 - Product Requirements.
   4. Accessories:
      a. Primer: Non-staining type, recommended by sealant manufacturer to suit application.

b. Joint Backing: Round foam rod compatible with sealant; ASTM D 1667, closed cell PVC; oversized 30 to 50 percent larger than joint width.
   1) Product: “Closed Cell Backer Rod” manufactured by Sonneborn; or approved equivalent.
c. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

E. Embeded electrical boxes. Precaster to include in their bid materials and labor for 450 recessed electrical boxes and conduit stubbed out to top of panel or above ceiling space. Boxes to be located on both form and backside of panel.

F. Elevator support brackets. Precaster to install/ cast in elevator support brackets to the elevator shaft as coordinated with elevator supplier.

G. Weeps:
   1. Type: Polyester mesh.
   2. Color(s): As selected by Architect from manufacturer’s full range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that building structure, anchors, devices, and openings are ready to receive work of this section.

3.02 PREPARATION

A. Provide for erection procedures and induced loads during erection. Maintain temporary bracing in place until final support is provided.

3.03 ERECTION

A. Erect units without damage to shape or finish. Replace or repair damaged panels.

B. Erect units level and plumb within allowable tolerances.

C. Align and maintain uniform horizontal and vertical joints as erection progresses.

D. When units require adjustment beyond design or tolerance criteria, discontinue affected work; advise Architect.

E. Weld units in place. Perform welding in accordance with AWS D1.1/D1.1M.

F. Touch-up field welds and scratched or damaged primed painted or galvanized surfaces.

G. Set vertical units dry, without grout, attaining joint dimension with lead or plastic spacers. Pack grout to base of unit.

H. Exposed Joint Dimension: 1/2 inch. Adjust units so that joint dimensions are within tolerances.

3.04 TOLERANCES

A. Erect members level and plumb within allowable tolerances. Conform to PCI MNL-135, except as specifically amended below.
   1. Plan Location from Building Grid Datum: Plus or minus 3/8 in.
   2. Top Elevation from Nominal Top Elevation: Plus or minus 3/8 inch.
   3. Maximum Plumb Variation Over Height of Structure or 100 ft (whichever is less): Plus or minus 1/2 inch.
   4. Exposed Joint Dimension: Plus or minus 3/16 inch.
   5. Maximum Jog in Alignment of Matching Faces or Edges: Plus or minus 3/16 inch.
   6. Differential Bowing or Camber as Erected Between Similar Adjacent Members: Plus or minus 3/16 inch.

3.05 CLEANING

A. Clean architectural finishes to remove road film, effloresces, weld marks, other markings, dirt, and stains and to even out color variations from panel to panel.

1. Precast units shall be cleaned only after all installation procedures, including joint treatment, are completed.
2. Perform cleaning and rinsing procedures in accordance with the precast manufacturer's recommendations.

END OF SECTION

SECTION 06 2000
FINISH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Finish carpentry items, including:
   1. Solid wood trim (WDT-1).
   2. Wood cap (WD-1).
   3. Solid maple butcher block treads (WD-2).
   4. Slat wall paneling (SLAT-1)

B. Hardware and attachment accessories.

1.02 RELATED REQUIREMENTS

A. Section 01 7419 - Construction Waste Management and Disposal.

B. Section 06 1000 - Rough Carpentry: Support framing, grounds, and concealed blocking.

C. Section 06 4100 - Architectural Wood Casework: Coordination with shop fabricated custom cabinet work.

1.03 REFERENCE STANDARDS

A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition.

B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards.

C. NEMA LD 3 - High-Pressure Decorative Laminates.

D. NHLA G-101 - Rules for the Measurement and Inspection of Hardwood and Cypress.

E. PS 1 - Structural Plywood.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with electrical rough-in and installation of associated and adjacent components.

B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data:
   1. Provide data for premanufactured items and accessories.
   2. Provide data for attachment hardware and finish hardware.

C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
   2. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).

D. Samples: Submit one sample of slat wall panels, 12 by 12 inch in size illustrating specified finish.

E. Samples: Submit one sample of wood trim 8 inch long.

1.06 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Company that follows AWI's "Architectural Woodwork Quality Standards".

1.07 DELIVERY, STORAGE, AND HANDLING

A. Store finish carpentry items under cover, elevated above grade, and in a dry, well-ventilated area not exposed to heat or sunlight.

B. Protect from moisture damage.

C. Handle materials and products to prevent damage to edges, ends, or surfaces.

1.08 FIELD CONDITIONS

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, utilities, and other related work to ensure that finish carpentry items can be supported and installed as indicated.

B. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed, and indicate measurements on Shop Drawings.

C. During and after installation of finish carpentry, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

D. Do not deliver product until the building is secure and weathertight.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.

C. Interior Woodwork Items:
1. Stained Base and Miscellaneous Trim: Hardwood; prepare for transparent finish.
2. Laminate-Faced Paneling: Plastic laminate on MDF
3. Slat Wall Paneling: Plastic laminate on high-performance core, prefabricated.

2.02 LUMBER MATERIALS

A. Hardwood Lumber (WD-1, WDT-1): Red Oak species, maximum moisture content of 8 percent.
1. Grading: In accordance with NHLA G-101 Grading Rules; www.nhla.com.
2. Lengths: Longest available for configuration shown; scarf-jointed where multiple pieces are required.
3. Height and Thickness: As detailed on drawings.
4. Finish: Custom stain to match PLAM-1, with water-based polyurethane clear sealer.

2.03 SHEET MATERIALS

A. Medium Density Fiberboard (MDF): ANSI A208.2; type as specified in AWI/AWMAC Architectural Woodwork Quality Standards Illustrated; composed of wood fibers pressure bonded with moisture resistant adhesive to suit application; sanded faces
1. Application: Laminate-faced paneling.
2. Thickness: As detailed or required for application and span, typically 3/4 inch.
3. Finish: Plastic laminate, as indicated in Drawings and Finish Schedule.

B. Softwood Plywood, concealed: Face species Contractor's choice, plain sawn, medium density fiberboard core; PS 1 Grade A-B, glue type as recommended for application.
1. Thickness: As detailed or required for application and span.

2.04 WOOD COMPONENTS OF STAIRS IN COMMONS

A. Solid Maple Butcher Block (WD-2):
1. Material: Hard Maple, kiln dried to 6 to 8% moisture content.
2. Thickness: 1-1/2 inches.
3. Edge: Radius
4. Finish/Coat Stain: custom stain to match PLAM-1 and U.V. cured polyurethane, 3 coats.
5. Fabrication: Wood strips not more than 1-7/8" wide glued under pressure using radio frequency.
   a. Finger jointed material is allowed in sizes over 7 feet.
   b. Tops over 12 feet in length may have field joints.
6. Accessories: Uline Anti-Slip Tape 4 inch applied to stair treads.

2.05 PLASTIC LAMINATE MATERIALS

A. Plastic Laminate: NEMA LD 3, HGS; color as indicated in Drawings and Finish Schedule; satin finish.

B. Laminate Backing Sheet: NEMA LD 3, BKL; undecorated plastic laminate.

C. Laminate Adhesive: Type recommended by laminate manufacturer to suit application; not containing formaldehyde or other volatile organic compounds.

2.06 SLAT-WALL PANELING

A. Core:
   1. "AnchorCore" by Boise Cascade or approved equal.
   2. Medium Density Fiberboard (MDF)

B. Construction Options:
   1. No Added Urea Formaldehyde (NAUF)
   2. Flame Retardant Class A

C. Groove Orientation / Spacing: Horizontal, 3-inches on center

D. Groove Options:
   1. Aluminum Inserts: Clear anodized

E. Finish:
   1. High Pressure Laminate (HPL), as indicated in Finish Schedule

F. Product:
   1. Marlite: Standard Slat Wall; www.marlite.com

2.07 FASTENINGS

A. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.

B. Fasteners, for substrate: screws, any finish in concealed locations.

C. Concealed Joint Fasteners: Threaded steel.

D. Metal Z-Shaped Support Clips: Paired, cleated, structural anchorage components applied to back of finish carpentry items and walls for mounting.
   1. Material: Extruded aluminum, with predrilled holes.
   2. Thickness: 0.115 inch.
   3. Height: 1.25 inches, nominal.
   4. Stand-Off: 0.240 inch.
   5. Lift-Off: 0.375 inch.
   6. Lengths: As required for weight of wood component
   7. Products:
      a. Eagle Aluminum; Eagle Z-Clips: www.eagle-aluminum.com/#sle.
      b. Fry Reglet: Millwork Cleat 25; www.fryreglet.com
      c. Monarch Metal Fabrication; www.monarchmetal.com
      d. New York Metal; www.newyorkmetal.com
      e. Orange Aluminum; www.orangealuminum.com
      f. Outwater Plastics Industries Inc; www.outwatercatalogs.com
      g. Substitutions: See Section 01 6000 - Product Requirements.

2.08 ACCESSORIES

A. Lumber for Shimming: Softwood lumber of pine species.

B. Wood Filler: Solvent base, tinted to match surface finish color.

2.09 FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

B. Fit exposed sheet material edges with matching veneer edging. Use one piece for full length only.

C. Cap exposed plastic laminate finish edges with material of same finish and pattern.

D. Shop prepare and identify components for book match grain matching during site erection.

E. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

F. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners.

G. Apply laminate backing sheet to reverse face of plastic laminate finished surfaces.

2.10 SHOP FINISHING

A. Sand work smooth and set exposed nails and screws.

B. Apply wood filler in exposed nail and screw indentations.

C. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and is of type recommended for the applicable finish.

D. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 11, Polyurethane, Catalyzed.
      b. Stain: As indicated in Finish Schedule to match Architect's sample
      c. Sheen: Satin.

E. Back prime woodwork items to be field finished, prior to installation.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

C. See Section 06 1000 - Rough Carpentry for installation of recessed wood blocking.

3.02 INSTALLATION

A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Do not begin installation until wood materials have been fully acclimated to interior conditions.

C. Set and secure materials and components in place, plumb and level.

D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

E. Install components with concealed fasteners to greatest extend possible..

F. Install hardware and accessories in accordance with manufacturer's written instructions.

3.03 TOLERANCES

A. Maximum Variation from True Position: 1/16 inch.

B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

END OF SECTION

SECTION 07 5300
ELASTOMERIC MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Elastomeric roofing membrane, adhered conventional application.

B. Insulation, flat and tapered (for crickets).

C. Deck sheathing.

D. Cover boards and substrate boards.

E. Roofing stack boots, roofing expansion joints, and walkway pads.

1.02 RELATED REQUIREMENTS

A. Section 05 3100 - Steel Decking: Placement of acoustical insulation for deck flutes.

B. Section 06 1000 - Rough Carpentry: Wood cant strips.

1.03 REFERENCE STANDARDS

A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.

B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.

C. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension.

D. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.

E. ASTM D746 - Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact.

F. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane.

G. UL (DIR) - Online Certifications Directory.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with installation of associated counterflashings installed under other sections.

B. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all affected installers; review preparation and installation procedures and coordination and scheduling necessary for related work.

1. Proper operation of induction welding tools and magnetic cooling clamps.
2. Calibration of induction welding tools.
3. Installation of roof insulation and membrane roofing.
4. Testing of welds.
5. Protection of installed membrane roofing.
6. Coordination with other work.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, surfacing, and fasteners.

C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, setting plan for tapered insulation, and and insulation board fastener patterns for uplift requirements.

D. Warranty Documentation:

1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
2. Submit installer's written verification that installation complies with warranty conditions for waterproof membrane.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years of documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section and approved by manufacturer.

C. Provide adequate number of experienced workmen regularly engaged in this type of work who are skilled in the application techniques of the materials specified. Provide at least one thoroughly trained and an experienced superintendent on the job at all times roofing work is in progress.

D. Upon completion of the installation, the applicator shall arrange for an inspection to be made by a non-sales technical representative of the membrane manufacturer in order to determine whether or not corrective work will be required before the warranty will be issued. Notify the building owner seventy-two (72) hours prior to the manufacturer's final inspection.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact.

B. Store materials in weather protected environment, clear of ground and moisture.

C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

D. Protect foam insulation from direct exposure to sunlight.

1.08 FIELD CONDITIONS

A. Do not apply roofing membrane during unsuitable weather.

B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above 100 degrees F.

C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

D. Do not expose materials vulnerable to water in quantities greater than can be weatherproofed the same day.

E. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

1.09 WARRANTY

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. Provide twenty year manufacturer's material and labor warranty to cover failure to prevent penetration of water, with no dollar limitation, and wind speed coverage up to 72 mph.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fully-Adhered EPDM Membrane Materials:
1. Carlisle Roofing Systems, Inc; Sure-Seal EPDM: www.carlisle-syntec.com.
2. Elevate; RubberGard EPDM: www.holcimelevate.com/#sle.
3. GenFlex Roofing Systems, LLC; GenFlex II EPDM: www.genflex.com.
4. Johns Manville; JM EPDM: www.jm.com/#sle.
5. Mule-Hide Products Co, Inc: www.mulehide.com/#sle.

6. Versico, a division of Carlisle Construction Materials Inc; VersiGard EPDM: www.versico.com/sle.
7. Substitutions: See Section 01 6000 - Product Requirements.

B. Insulation: same manufacturer or approved by membrane manufacturer.
1. Dow: www.dow.com/#sle.
2. Hunter Panels, LLC: www.hpanels.com.
3. Versico, a division of Carlisle Construction Materials Inc: www.versico.com/sle.
4. Elevate: www.holcimelevate.com.
5. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ROOFING

A. Elastomeric Membrane Roofing: One ply membrane, fully adhered, over coverboard, insulation, and vapor retarder.

B. Roofing Assembly Requirements:
1. Roof Covering External Fire Resistance Classification: UL (DIR) certified Class A.
2. Insulation Thermal Value (R), minimum: 30; provide insulation of thickness required.

C. Acceptable Insulation Types - Constant Thickness Application:
1. Minimum 2 layers of polyisocyanurate board.

D. Acceptable Insulation Types - Tapered Application:
1. Tapered polyisocyanurate board.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Membrane: Ethylene-propylene-diene-terpolymer (EPDM); non-reinforced; complying with minimum properties of ASTM D4637/D4637M.
1. Thickness: 0.060 inch.
2. Sheet Width: 120 inch, minimum; factory-fabricate into largest sheets possible.
3. Color: Black.
4. Tensile Strength: 1305 psi, measured in accordance with ASTM D412.
5. Ultimate Elongation: 300 percent, measured in accordance with ASTM D412.
6. Tear Strength: 150 lbf per inch, measured in accordance with ASTM D624.
7. Brittleness Temperature: -49 degrees F, measured in accordance with ASTM D746.

B. Seaming Materials: a 3" or 6" wide by 100' long splice tape used for splicing adjoining sections of EPDM membrane as recommended by membrane manufacturer.

C. Vapor Retarder: Self-adhering rubberized asphalt laminated to polyolefin film with release film at undersurface.
1. Thickness: 40 mil, minimum.
2. Tensile Strength: 200 psi, measured in accordance with ASTM D412.
3. Ultimate Elongation: 200 percent, measured in accordance with ASTM D412.
4. Puncture Resistance: 20 lbs, measured in accordance with ASTM E154.
5. Water Vapor Permeance: 0.020 perms maximum measured in accordance with ASTM E96/E96M.
6. Product: “725TR Air and Vapor Barrier/Temporary Room” manufactured by Carlisle SynTec; “V-Force” manufactured by Firestone Building Products Co; “725TR Air and Vapor Barrier/Temporary Room” manufactured by Versico Roofing Systems; “SOPRAVAP’R XD” manufactured by Soprema;or approved equivalent.
a. Carlisle SynTec; 725TR Air and Vapor Barrier/Temporary Room
b. Elevate Building Products Co; V-Force
c. Soprema; SOPRAVAP’R XD
d. Substitutions: See Section 01 60 00 - Product Requirements.

D. Flexible Flashing Material: Same material as membrane.
1. Thickness: 60 mil.
2. Tensile Strength: 1,200 psi.

E. Separation Sheet (if required by manufacturer): Sheet polyethylene; 2 mil, 0.002 inch thick.

2.04 DECK SHEATHING

A. Deck Sheathing: Glass mat faced gypsum panels, ASTM C1177/C1177M, 5/8 inch and 1/2 inch thick.
   1. Location:
      a. 5/8 inch, Type X, fire-resistant at rated roof assembly at Jefferson connection 'Vestibule E100'.
      b. 1/2 inch over metal acoustical perforated deck.
   2. Size: 4 by 8 feet, maximum.
   3. Products:
      a. Georgia-Pacific; DensDeck Prime with EONIC Technology: www.densdeck.com/#sle.
      b. USG Corporation; Securock Ultralight Glass-Mat Roof Board: www.usg.com/#sle.
      c. Substitutions: See Section 01 6000 - Product Requirements.

2.05 COVER BOARDS

A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
   1. Thickness: 5/8 inch, Type X, fire-resistant.
   2. Size: 4 by 8 feet, maximum.
   3. Products:
      a. Georgia-Pacific; DensDeck Prime: www.densdeck.com/#sle.
      b. USG Securock Ultralight Coated Glass-Mat Roof Board.
      c. Substitutions: See Section 01 6000 - Product Requirements.

2.06 INSULATION

A. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
   1. Classifications:
      a. Type II: Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.
         1) Class 1 - Faced with glass fiber reinforced cellulistic felt facers on both major surfaces of core foam.
         2) Compressive Strength: Class 2, Grade 2 - 25 psi (138 kPa), minimum.
   2. Board Size: 48 by 96 inches.
   3. Base Layer: 3 inches over 2-1/2 inches.
   4. Board Thickness: 2.0 inch, minimum, per layer
   5. Tapered Board: Slope as indicated (typically 1/4 inch per foot); minimum thickness 1/2 inch; fabricate of fewest layers possible.
   6. Minimum R-Value: 5.8 per inch.
   7. Board Edges: Square.

2.07 ACCESSORIES

A. Roofing Expansion Joint Flashing: Flexible rubber membrane with two aluminum flanges, adhesively and mechanically combined to bellows. ~~Sheet butyl.~~

B. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.

~~C. Sheathing Joint Tape: Paper type, ___ inches wide, self adhering.~~

~~D.~~C. Membrane Adhesive: A high-strength, colored, synthetic rubber adhesive used for bonding EPDM membranes to various surfaces. As recommended by membrane manufacturer.

~~E.~~D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

~~F.~~E. Surface Primer: Low VOC primer for application over roofing substrates. As recommended by membrane manufacturer.

~~G.~~F. Thinners and Cleaners: As recommended by adhesive manufacturer, compatible with membrane.

~~H.~~G. Insulation Adhesive: An elongating impact resistant two component insulating urethane adhesive used to attach insulation. As recommended by insulation manufacturer.

~~I.~~H. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.

~~J.~~I. Termination Bars: Stainless steel or aluminum bars pre-punched for fastening to substrate.

~~K.~~J. Sealants: As recommended by membrane manufacturer.

~~L.~~K. Walkway Pads: Suitable for maintenance traffic, contrasting color or otherwise visually distinctive from roof membrane.

1. Composition: Roofing membrane manufacturer's standard, with slip-resistant finish.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of roofing system.
   1. Verify that surfaces and site conditions are ready to receive work.

B. Verify deck is supported and secure.

C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.

D. Verify deck surfaces are dry and free of snow or ice.

E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 PREPARATION - METAL DECK

A. Install preformed acoustical glass fiber insulation strips in roof deck flutes in accordance with manufacturer's instructions; see Section 05 3100.

B. Install deck sheathing on metal deck.
   1. Lay with long side at right angle to flutes; stagger end joints; provide support at ends.
   2. Cut sheathing cleanly and accurately at roof breaks and protrusions to provide smooth surface.
   3. Tape joints.

3.03 INSTALLATION, GENERAL

A. Apply elastomeric membrane roofing system in accordance with manufacturer's recommendations and NRCA (WM) or NRCA (RM) applicable requirements.

B. Do not apply roofing membrane during cold or wet weather conditions.

C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.04 VAPOR RETARDER AND INSULATION - UNDER MEMBRANE

A. Install vapor retarder to deck surface / substrate board where applicable with adhesive in accordance with manufacturer's instructions.
   1. Extend vapor retarder under cant strips and blocking to deck edge.
   2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.

B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.

C. Attachment of Insulation: Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions.

D. Lay subsequent layers of insulation with joints staggered minimum 6 inches from joints of preceding layer.

E. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.

F. On metal deck, place boards parallel to flutes with insulation board edges bearing on deck flutes.

G. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof. Neatly fill all gaps greater than 1/4" wide with same material.

H. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 24 inches.

I. Do not apply more insulation than can be covered with membrane in same day.

3.05 COVER BOARD INSTALLATION

A. Mechanically fasten cover board to insulation per manufacturer's recommendations.

B. Provide cover board over insulation or wood sheathing at backside of parapets.

3.06 INSTALLATION - MEMBRANE

A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.

B. Shingle joints on sloped substrate in direction of drainage.

C. Fully Adhered Application: Apply adhesive to substrate at rate of manufacturer's recommended gal/square. Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.

D. Overlap edges and ends and seal seams by butyl tape or manufacturer’s equivalent recommended system, minimum 3 inches. Seal permanently waterproof. Apply uniform bead of sealant to joint edge.

E. At intersections with vertical surfaces:
   1. Extend membrane over cant strips and up a minimum of 6 inches onto vertical surfaces.
   2. Fully adhere flexible flashing over membrane and up to nailing strips.
   3. Secure flashing to nailing strips at 4 inches on center.

F. At gravel stops, extend membrane under gravel stop and to the outside face of the wall.

G. Around roof penetrations, seal flanges and flashings with flexible flashing.

H. Install roofing expansion joints where indicated. Make joints watertight.
   1. Install prefabricated joint components in accordance with manufacturer's instructions.

I. Coordinate installation of roof drains and sumps and related flashings.

J. Coordinate installation of associated counterflashings installed under other sections.

K. Install roof membrane or flexible roof flashing to air barrier material in wall construction, lap and seal to provide continuity of the air barrier plane.

3.07 WALKWAY INSTALLATION

A. Install walkways at access points to the roof, around rooftop equipment that may require maintenance, below condensation drip lines, and where indicated on the drawings.

B. Use specified walkway pads unless otherwise indicated.
   1. Walkway Pads: Adhere to the roofing membrane, spacing each pad at minimum of 1" and maximum of 3" from each other to allow for drainage.

C. If installation of walkway pads over field fabricated splices or within 6" of a splice edge cannot be avoided, adhere another layer of flashing over the splice and extending beyond the walkway pad a minimum of 6" on either side.

D. Prime the membrane, remove the release paper on the pad, press in place, and walk on pad to ensure proper adhesion.

3.08 CLEANING

A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.

B. Remove bituminous markings from finished surfaces.

C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and comply with their documented instructions.

D. Repair or replace defaced or damaged finishes caused by work of this section.

3.09 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION

SECTION 07 9513
EXPANSION JOINT COVER ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Expansion joint cover assemblies for wall and roof surfaces.

1.02 RELATED REQUIREMENTS

A. Section 07 9200 - Joint Sealants: Sealing expansion and control joints using gunnable and pourable sealants.

1.03 DEFINITIONS

A. Maximum Joint Width: Widest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.

B. Minimum Joint Width: Narrowest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.

C. Movement Capability: Value obtained from the difference between widest and narrowest widths of a joint.

D. Nominal Joint Width: The width of the linear opening specified in practice and in which the joint system is installed.

1.04 REFERENCE STANDARDS

A. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

B. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

C. ASTM B308/B308M - Standard Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles.

D. ITS (DIR) - Directory of Listed Products.

E. UL (DIR) - Online Certifications Directory.

1.05 ADMINISTRATIVE REQUIREMENTS

A. Installation Templates: For frames and anchors to be embedded in concrete or masonry, furnish templates to relevant installers; include installation instructions and tolerances.

B. Preinstallation Meeting: Convene one week before starting work of this section to verify project requirements, coordinate with installers of other work, verify condition and completeness of building substrate, and review manufacturer's installation instructions and warranty requirements.

1. Attendance Required:
    a. System installer.
    b. Related sub-contractors.
2. Topics of Discussion:
    a. Scheduling.
    b. Personnel.
    c. Product transition areas
    d. Installation of adjacent materials and substrates.
    e. Quality Control procedures
    f. Protection procedures for this work and other construction.

1.06 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide joint assembly profiles, profile dimensions, anchorage devices and available colors and finish.

C. Shop Drawings: Indicate joint and splice locations, miters, layout of the work, affected adjacent construction and anchorage locations.
   1. Include isometric diagram of joints, with indication of each type and transition by location.

D. Samples: Submit two samples 6 inch long, illustrating profile, dimension, color, and finish selected.

1.07 QUALITY ASSURANCE

A. Field Measurements: Verify actual dimensions by field measurement prior to starting fabrication; include recorded field measurements on shop drawings.
   1. Utilize factory-fabricated transition products to greatest extent available.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.

C. Installer Qualifications: Company specializing in performing work of the type specified and approved by manufacturer.

D. Source Limitations: Obtain all architectural joint systems through one source from a single manufacturer.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Examine delivered joint materials upon receipt to ensure that no damage has occurred during shipment.

B. Store components off-the-ground, covered with suitable weathertight and ventilated covering in manufacturer's unopened packaging until ready for installation.

C. Provide markings to identify components in coordination with shop drawings.

D. Exercise care in unloading, storing and installing panels to prevent bending, warping, twisting and surface damage.

E. Avoid contact of components with other materials that might cause staining, denting, or other surface damage.

1.09 COORDINATION

A. Coordinate installation of exterior wall joint systems with roof expansion assemblies to ensure that wall transitions are watertight.

1.10 FIELD CONDITIONS

A. Measure joint during adjacent material installation and size joint to allow for expansion and contraction of adjacent materials throughout the year.

B. Maintain environmental conditions, such as temperature, humidity, and ventilation during installation to be within limits as recommended by manufacturer for optimum results.

C. Do not install wall panel products under environmental conditions outside manufacturer's recommended limits.

1.11 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Installation Warranty: Provide warranty by manufacturer and installer, agreeing to correct defects such as: attachment to adjacent materials; component joinery; and joint seals associated with the system, within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide Basis of Design manufacturer listed, or a standard or custom product from one of the other listed manufacturers with equivalent performance, material properties, features, general configuration, appearance, and warranty:

B. Expansion Joint Cover Assemblies:

1. **BASIS OF DESIGN:** Balco, Inc: www.balcousa.com/#sle.
2. Construction Specialties, Inc: www.c-sgroup.com.
3. EMSEAL Joint Systems, Ltd: www.emseal.com/#sle.
4. Inpro: www.inprocorp.com/#sle.
5. MM Systems Corp: www.mmsystemscorp.com/#sle.
6. Nystrom, Inc: www.nystrom.com/sle.
7. Substitutions: See Section 01 6000 - Product Requirements.

2.02 EXPANSION JOINT COVER ASSEMBLY APPLICATIONS

A. Interior Expansion Joint Systems:
   1. Interior Ceiling Expansion Joint Systems:
      a. Joint width: 2 inches.
      b. Movement per ASTM E1399:
         1) Expansion/contraction: 25 percent.
      c. Finish:
         1) Mill finish aluminum extrusions, AA-M10
         2) Seal color: as selected from manufacturers full standard colors.
      d. Products:
         1) Balco; 75FCAC-2.
         2) Substitutions: See Section 01 6000 - Product Requirements.

B. Exterior Expansion Joint Systems:
   1. Exterior Wall and Rated Interior Wall Expansion Systems:
      a. Joint width: 1 inch and 2 inches.
      b. Movement per ASTM E1399:
         1) Expansion/contraction: 50 percent.
      c. Finish: seal color, selected from manufacturers full standard colors.
      d. Rating: at required locations as indicated on Drawings.
      e. Products:
         1) Balco; EV
         2) Balco; MetaBlock, 2-hour rated
         3) Sika; Seismic Colorseal
         4) Sika; Emshield WFR2
         5) Substitutions: See Section 01 6000 - Product Requirements.

2.03 EXPANSION JOINT COVER ASSEMBLIES

A. Expansion Joint Cover Assemblies - General: Factory-fabricated and assembled; designed to completely fill joint openings, sealed to prevent passage of air, dust, water, smoke; suitable for traffic expected.
   1. Joint Dimensions: 2-inches
   2. Joint Cover Sizes: Selected to suit joint width and configuration, based on manufacturer's published recommendations and limitations.
   3. Joint Cover Styles: As indicated above
   4. Lengths: Provide covers in full lengths required; avoid splicing wherever possible.
   5. Anchors, Fasteners, and Fittings: Provided by cover manufacturer.

B. Resilient Seal Type Covers: Having flat exposed surface without crevices that could collect dirt; designed to withstand expected movement without extrusion of seal from joint assembly; for floors, provide style that is flush with top of floor covering; for exterior joints, weathertight.

C. Covers in Gypsum Board Assemblies: Provide style with anchoring wings that can be completely covered by joint compound.

D. Covers in Fire Rated Assemblies: Provide cover assembly having fire rating equivalent to that of assembly into which it is installed.
   1. Acceptable Evaluation Agencies: UL (DIR) and ITS (DIR).

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper; or ASTM B308/B308M, 6061 alloy, T6 temper.
   1. Exposed Finish: as selected by Architect from manufacturer's full range.
   2. Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious materials.

B. Resilient Seals:
   1. For Ceilings: Any resilient material, flush, pleated, or hollow gasket.
   2. For Pedestrian Traffic Applications: EPDM rubber, Neoprene, or Santoprene; no PVC; Shore A hardness of 40 to 50 Durometer.
   3. Color: as selected by Architect from manufacturer's full range.

C. Anchors and Fasteners: As recommended by cover manufacturer.

D. Ferrous Metal Anchors: Galvanized where embedded in concrete or in contact with cementitious materials.

E. Threaded Fasteners: Stainless steel.

F. Backing Paint for Aluminum Components in Contact with Cementitious Materials: Asphaltic type.

G. Accessories: Manufacturer's standard anchors, clips, fasteners, set screws, spacers, and other accessories compatible with material in contact, as indicated or required for complete installation.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that joint preparation and dimensions are acceptable and in accordance with manufacturer's requirements.

B. Verify that frames and anchors installed by others are in correct locations and suitable for installation of remainder of assembly.

3.02 PREPARATION

A. Prepare substrates according to architectural joint system manufacturer's written instructions.

B. Coordinate and furnish anchorages, setting diagrams, and instructions for installing joint systems. Provide fasteners of metal, type, and size to suit type of construction indicated and to provide for secure attachment of joint systems.

3.03 INSTALLATION

A. Install components and accessories in accordance with manufacturer's instructions.

B. Align work plumb and level, flush with adjacent surfaces.

C. Rigidly anchor to substrate to prevent misalignment.

D. Metal Frames: Perform cutting, drilling and fitting required to install joint systems.
   1. Install in true alignment and proper relationship to joints and adjoining finished surfaces measured from established lines and levels.
   2. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature at time of installation. Notify Architect where discrepancies occur that will affect proper joint installation and performance.
   3. Cut and fit ends to accommodate thermal expansion and contraction of metal without buckling of frames.
   4. Locate in continuous contact with adjacent surfaces.
   5. Standard duty Systems: Shim to level where required. Support underside of frames
   6. continuously to prevent vertical deflection when in service.
   7. Locate anchors at interval recommended by manufacturer, but not less than 3 inches from each end and not more than 24 inches o.c.

E. Seals in Metal Frames: Install elastomeric seals and membranes in frames to comply with manufacturer's written instructions. Install with minimum number of end joints.
   1. Provide in continuous lengths for straight sections.
   2. Seal transitions according to manufacturer's written instructions. Vulcanize or heat-weld field-spliced joints as recommended by manufacturer.
   3. Installation: Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by manufacturer.

F. Compression Seals: Apply adhesive or lubricant adhesive as recommended by manufacturer before installing compression seals.

G. Terminate exposed ends of joint assemblies with field- or factory-fabricated termination devices.

H. Fire-Resistance Rated Assemblies: Coordinate installation of architectural joint assembly materials and associated work so complete assemblies comply with assembly performance requirements.

I. Water Barrier: Provide water barrier at exterior joints and where called for on Drawings. Provide drainage fittings where indicated.

3.04 PROTECTION

A. Do not permit traffic over unprotected floor joint surfaces. Where necessary due to heavy construction traffic, remove and properly store cove plates or seals and install temporary protection over joints. Reinstall cover plates or seals prior to Substantial Completion of the Work.

B. Provide strippable coating to protect finish surface. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.

END OF SECTION

SECTION 08 1113
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Non-fire-rated hollow metal doors and frames.

B. Hollow metal frames for wood doors.

C. Fire-rated hollow metal doors and frames.

D. Thermally insulated hollow metal doors with thermally-broken hollow metal frames.

E. Hollow metal borrowed lites glazing frames.

F. Accessories, including glazing and matching panels.

1.02 RELATED REQUIREMENTS

A. Section 08 1416 - Flush Wood Doors

B. Section 08 7100 - Door Hardware.

C. Section 08 8000 - Glazing: Glass for doors and borrowed lites.

D. Section 09 9123 - Interior Painting: Field painting.

1.03 ABBREVIATIONS AND ACRONYMS

A. ANSI: American National Standards Institute.

B. SDI: Steel Door Institute.

C. UL: Underwriters Laboratories.

1.04 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design.

B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors.

C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.

D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100).

E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.

I. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete.

J. ASTM C476 - Standard Specification for Grout for Masonry.

K. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.

L. ICC A117.1 - Accessible and Usable Buildings and Facilities.

M. ITS (DIR) - Directory of Listed Products.

N. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames.

O. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames.

P. NAAMM HMMA 840 - Guide Specifications for Receipt, Storage and Installation of Hollow Metal Doors and Frames.

Q. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames.

R. NFPA 80 - Standard for Fire Doors and Other Opening Protectives.

S. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives.

T. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.

U. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames.

V. UL (DIR) - Online Certifications Directory.

W. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.

X. UL 1784 - Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.

C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.

D. Test Reports for Storm-Rated doors: Provide test reports from a qualified accredited testing agency as outlined below. Test reports will contain the laboratory name, test report number and date of test. The submitted document shall be the entire raw report from the testing agency.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of experience.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted finish.

1.08 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Hollow Metal Doors and Frames:
   1. Ceco Door, Assa Abloy Group companies: www.assaabloydss.com.
   2. Curries, Assa Abloy Group companies: www.assaabloydss.com.
   3. Steelcraft, an Allegion brand: www.allegion.com/sle.
   4. Substitutions: See Section 01 6000 - Product Requirements.

B. Exterior (Thermally-Broken) Hollow Metal Doors and Frames:
   1. Ceco, an Assa Abloy Group company: www.assaabloydss.com.
   2. Curries, an Assa Abloy Group company: www.assaabloydss.com.
   3. Steelcraft, an Allegion brand: www.allegion.com
   4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:

1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
2. Accessibility: Comply with ICC A117.1 and ADA Standards.
3. Door Top Closures: Flush end closure channel, with top and door faces aligned.
4. Door Edge Profile: Beveled, both sides.
5. Rabbet: single, unless otherwise indicated.
6. Typical Door Face Sheets: Flush.
7. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Flush.
8. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
    a. Steel Door Reinforcing:
        1) Minimum 10 gauge steel of equivalent thread depth for hinges.
        2) Minimum 12 gauge steel for lock front, closers, and overhead hold open/stop arms.
        3) Minimum 14 gauge steel for other hardware.
    b. Steel Frame Reinforcing:
        1) Minimum 7 gauge steel of equivalent thread depth for hinges.
        2) Minimum 12 gauge steel for closers and overhead hold open/stop arms.
        3) Minimum 14 gauge steel for strikes and other hardware.
9. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
    a. Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvannealed) for exterior and corrosive locations.

B. Hollow Metal Panels: Same construction, performance, and finish as doors.

C. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.03 HOLLOW METAL DOORS

A. Door Finish: Factory primed and field finished.

B. Exterior Doors: Thermally insulated.
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    a. Level 3 - Extra Heavy-duty.
    b. Physical Performance Level A, 1,000,000 cycles; in accordance with ANSI/SDI A250.4.
    c. Model 1 - Full Flush 2 - Seamless.
    d. Door Face Metal Thickness: 16 gauge, 0.053 inch, minimum.
    e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
2. Core Material: Polyurethane, 1.8 lbs/cu ft minimum density.
3. Door Thermal Resistance: R-Value of 8.7 minimum for installed thickness of polyurethane.
4. U value: 0.352, measured in accordance with ASTM C1363/ NFRC 102-2014
5. Air Infiltration: less than 0.1 cfm/sf measured in accordance with ASTM EE283/ NFRM 400-2014.

6. Must use with thermally broken frame and thermal saddle to achieve above values.
7. Door Thickness: 1-3/4 inches, nominal.
8. Weatherstripping: Refer to Section 08 7100.
9. See door schedule and hardware gorups for exterior doors to be prepared for EPT power transfer hinge to bring power from frame to the doors. See Section 08 7100.

C. Interior Doors, Non-Fire Rated:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
a. Level 2 - Heavy-duty.
b. Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
c. Model 2 - Seamless.
d. Door Face Metal Thickness: 18 gauge, 0.042 inch, minimum.
2. Core Material: Kraftpaper honeycomb with fiberglass or mineral fiber batt infill.
3. Door Thickness: 1-3/4 inches, nominal.

D. Interior Doors,Fire-Rated:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
a. Level 2 - Heavy-duty.
b. Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
c. Model 2 - Seamless.
d. Door Face Metal Thickness: 18 gauge, 0.042 inch, minimum.
2. Fire Rating: As indicated on Door Schedule, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests").
a. Provide units listed and labeled by UL (DIR) or ITS (DIR).
b. Attach fire rating label to each fire rated unit.
c. Smoke and Draft Control Doors (Indicated with letter "S" on Drawings and/or Door Schedule): Self-closing or automatic closing doors in accordance with NFPA 80 and NFPA 105, with fire-resistance-rated wall construction rated the same or greater than the fire-rated doors, and the following;
1) Maximum Air Leakage: 3.0 cfm/sq ft of door opening at 0.10 inch w.g. pressure, when tested in accordance with UL 1784 at both ambient and elevated temperatures.
2) Gasketing: Provide gasketing or edge sealing as necessary to achieve leakage limit.
3) Label: Include the "S" label on fire-rating label of door.
3. Core Material: Vertical steel stiffeners with fiberglass or mineral fiber batt infill, except where mineral fiberboard required for rating or temperature rise.
4. Door Thickness: 1-3/4 inches, nominal.

2.04 HOLLOW METAL FRAMES

A. General:
1. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.
2. Face Width: 2 inches, unless otherwise indicated.
3. Frame Depth: Where detailed in the drawings, coordinate to fit actual wall thicknesses, including masonry, plus 1/2-inch wrap each side. Refer to door schedule.
4. Frame Profile: Double rabbet, unless otherwise indicated.
5. Knock-down frames are prohibited.
6. Frame Reinforcements
a. Spreader bars – 16 gauge channel, shall be removed prior to plumbing and securing frame in wall.
b. Hinge reinforcements shall be 7 gauge required on top hinge.
c. Surface mounted closers, overhead stops, holders reinforcement shall be 14 gauge steel plate welded.

d. Reinforce for rim mounted strikes with 14 gauge steel sheet welded on inside of jamb.
e. Drill and tap for surface mounted hardware at job site.
f. Strikes for mortise locks and cylindrical locks shall be 4-7/8" and conform to ANSI A115.1 and A115.2.

B. Frame Finish: Factory primed and field finished.

C. Exterior Door Frames: Fully welded.
1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
2. Frame Metal Thickness: 14 gage, 0.067 inch, minimum.
3. Provide thermal anchors, and use with energy efficient door and thermal saddle
4. Weatherstripping: Separate, see Section 08 7100.
5. See door schedule and hardware groups for exterior doors to be prepared for EPT power transfer hinge to bring power from frame to the doors. See Section 08 7100.

D. Interior Door Frames, Non-Fire Rated: Full profile/continuously welded type.
1. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.

E. Door Frames, Fire-Rated: Fully welded type.
1. Fire Rating: Same as door, labeled.
2. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.

F. Frames for Wood Doors: Comply with frame requirements in accordance with corresponding door.

G. Borrowed Lites Glazing Frames: Construction and face dimensions to match door frames, and as indicated on drawings.

H. Transom Bars: Fixed, of profile same as jamb and head.

I. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry, to be grouted~~, or to be filled with low-expansion spray foam insulation~~.

J. Frames in Masonry Walls: Size to suit masonry coursing with head member 4 inches high to fill opening without cutting masonry units.

K. Frames Wider than 48 inches: Reinforce with steel channel fitted tightly into frame head, flush with top.

2.05 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

B. Finish: See Door Schedule on Drawings.

2.06 ACCESSORIES

A. Glazing: As specified in Section 08 8000, factory installed.

B. Removable Stops: Formed sheet steel, mitered corners; prepared for countersink style tamper proof screws.

C. Astragals for Double Doors: Specified in Section 08 7100.

D. Mechanical Fasteners for Concealed Metal-to-Metal Connections: Self-drilling, self-tapping, steel with electroplated zinc finish.

E. Grout for Frames: Mortar grout complying with ASTM C476 with maximum slump of 4 inches as measured in accordance with ASTM C143/C143M for hand troweling in place; plaster grout and thinner pumpable grout are prohibited.

F. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.
1. Coordinate with painter so that silencers are not painted.

G. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Install fire rated units in accordance with NFPA 80.

C. Coordinate frame anchor placement with wall construction.

D. Install batt insulation at frames in gypsum board walls with sound insulation.

E. Install mineral wool ~~spray foam~~ insulation at frames at exterior walls.

F. Install door hardware as specified in Section 08 7100.

G. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.

H. Comply with glazing installation requirements of Section 08 8000.

I. Coordinate installation of electrical connections to electrical hardware items.

J. Touch up damaged factory finishes.

3.03 TOLERANCES

A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.

B. Between Bottom of Door and Top of Threshold: Standard bottom clearance as required by manufacturer.

C. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.04 ADJUSTING

A. Adjust for smooth and balanced door movement.

3.05 SCHEDULE

A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION

SECTION 08 3100
ACCESS DOORS AND PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall- and ceiling-mounted access units.

1.02 RELATED REQUIREMENTS

A. Section 08 7100 - Door Hardware: Mortise cylinder and core hardware.

B. Section 09 2116 - Gypsum Board Assemblies: framing of rough opening, substrate.

C. Section 09 9123 - Interior Painting: Field paint finish.

D. Division 21 - Fire Suppression Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

E. Division 22 - Plumbing Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

F. Division 23 - HVAC Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

G. Division 26 - Electrical Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

H. Division 27 - Communications Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

I. Division 28 - Electronic Safety and Security Requirements: Coordination of concealed work requiring access within wall and ceiling assemblies.

1.03 REFERENCE STANDARDS

A. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable.

B. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.

C. Shop Drawings: Indicate exact position of each access door and/or panel unit.

1. Ceiling Coordination Drawings for Access Doors at Ceilings: Furnish reflected ceiling plans, drawn to scale, on which ceiling-mounted items including access doors and frames, lighting fixtures, diffusers, grilles, speakers, sprinklers, and special trim are shown and coordinated with each other. Indicate method of attaching door frames to surrounding construction.

D. Schedule: List of wall or ceiling access doors required, per room, including types, locations, sizes, latching or locking provisions, and other data pertinent to installation.

E. Project Record Documents: Record actual locations of each access unit.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.06 COORDINATION

A. Verification: Determine specific locations and sizes for access doors needed to gain access to concealed equipment, and indicate on schedule specified in "Submittals" Article.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Metal Doors and Frames:
1. ACUDOR Products Inc: www.acudor.com/#sle.
2. Babcock-Davis: www.babcockdavis.com.
3. Cendrex, Inc: www.cendrex.com/#sle.
4. J. L. Industries, Inc: www.jlindustries.com.
5. Karp Associates, Inc: www.karpinc.com.
6. Larsen's Manufacturing Co.
7. Milcor, Inc.: www.milcorinc.com.
8. Nystrom, Inc: www.nystrom.com/sle.
9. Williams Brothers Corporation of America: www.wbdoors.com.
10. Substitutions: See Section 01 6000 - Product Requirements.

2.02 WALL & CEILING-MOUNTED UNITS

A. Wall ~~and Ceiling~~ Mounted Units: Factory fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
1. Material: Steel.
2. Style: as follows:
   a. Concrete or Masonry: Exposed frame with door surface flush with frame surface.
   b. Metal Stud and Gypsum Board: Use drywall bead type frame.
   c. Tiled Walls: Use drywall bead type frame with recessed door for infill with tile wall finish.
3. Door Style: Single thickness with rolled or turned in edges.
4. Frames: 16-gauge, 0.0598-inch minimum thickness.
5. Single Steel Sheet Door Panels: 16-gauge, 0,0625-inch minimum thickness.
6. Steel Finish: Primed.
7. Size: as required for access, 12 x 12 inches minimum typical.
8. Exposed flanges at tile and FRP locations.
9. Hardware:
   a. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.175 degree with non-removable pin.
   b. Handle: No handle.
   c. Latch/Lock: Cylinder lock-operated cam latch, two keys for each unit.
      1) Mortise cylinder and core as specified in Section 08 7100.
      2) Screw driver slot for quarter turn cam latch acceptable for units located in maintenance/staff only areas.

B. Ceiling Mounted Units: Non-rated recessed drywall access door for 5/8 inch drywall insert.
1. Material: Aluminum.
2. Size: 24 x 24 inches.
3. Lock/Latch: Concealed touch latches.
4. Hinge: Spring loaded hinge pin allows door panel to open 90 degrees and also allows door panel to be removed from frame. Safety chain installed on door and frame for safety.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that rough openings are correctly sized and located.

B. Begin installation only after substrates have been properly prepared, and if the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Advise installers of other work about specific requirements relating to access door installation, including sizes of openings to receive access door and frame, as well as locations of supports, inserts, and anchoring devices.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to proceeding with this work.

B. Prepare surfaces using methods recommended by manufacturer for applicable substrates in accordance with project conditions.

3.03 INSTALLATION

A. Install units in accordance with manufacturer's instructions.

B. Install frames plumb and level in openings, and secure units rigidly in place.

C. Install access doors in gypsum board walls before joints are taped and finished, or arrange for taping and mudding of access door flanges after installation.

D. Position units to provide convenient access to concealed equipment when necessary.

3.04 FIELD-APPLIED FINISHES

A. Painting of Interior Primed Steel and Mill Finish Aluminum Components: As specified in Section 09 91 23.

3.05 ADJUSTING AND CLEANING

A. Adjust doors and hardware after installation for proper operation.

B. Remove and replace doors and frames that are warped, bowed, or otherwise damaged.

END OF SECTION

SECTION 08 3613
SECTIONAL DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Overhead sectional doors, electrically operated.
   1. Steel, for exterior use.

B. Operating hardware and supports.

C. Electrical controls.

1.02 RELATED REQUIREMENTS

A. Section 05 5000 - Metal Fabrications: Steel channel opening frame, brace framing for door tracks and bent plates.

B. Section 07 9200 - Joint Sealants: Sealing joints between frames and adjacent construction.

C. Division 26 - Electrical: Conduit to operator, control stations, fire alarm system, and door operators.

D. Section 26 0583 - Wiring Connections.

E. Division 28 - Electronic Safety and Security: Security service connection to door controller.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

C. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

D. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

E. DASMA 102 - American National Standard Specifications for Sectional Doors.

F. ITS (DIR) - Directory of Listed Products.

G. NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts.

H. NEMA MG 00001 - Motors and Generators.

I. NEMA EN 10250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

J. NFPA 70 - National Electrical Code.

K. UL (DIR) - Online Certifications Directory.

L. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

C. Product Data: Show component construction, anchorage method, and hardware.

D. Samples: Submit one panel finish samples, 6 by 6 inch in size, illustrating color and finish.

E. Operation Data: Include normal operation, troubleshooting, and adjusting.

F. Maintenance Data: Include data for motor and transmission, shaft and gearing, lubrication frequency, spare part sources.

G. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years of documented experience.

B. Installer Qualifications: Company approved by manufacturer.

C. Comply with applicable code for motor and motor control requirements.

D. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction, as suitable for purpose specified.

E. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.06 WARRANTY

A. See Section 01 7800 - Closeout Submittals for warranty requirements.

B. Extended Correction Period: Correct defective work within a 2-year period commencing on Date of Substantial Completion.

C. Warranty: Provide the following:
   1. One year manufacturer warranty on the door sections against defects in material and workmanship, and deterioration due to rust-through.
   2. Ten year manufacturer warranty on the door sections against delamination of the insulation from the steel skins.
   3. One year manufacturer warranty on the window components against defects in material and workmanship.
   4. One year manufacturer warranty on all hardware and spring components against defects in material and workmanship.
   5. One year manufacturer warranty on high performance fluoropolymer coating.
   6. Include coverage for electric motor and transmission.
   7. Provide 25,000 cycle/ three year year manufacturer warranty for electric operating equipment.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Sectional Doors:
   1. Amarr: www.amarr.com/commercial/#sle.
   2. C.H.I. Overhead Doors: www.chiohd.com/sle.
   3. Clopay Building Products: www.clopaydoor.com/sle.
   4. Haas Door: www.haadoor.com
   5. Midland Garage Door: www.midlandgaragedoor.com.
   6. Overhead Doors; www.overheaddoor.com
   7. Raynor Garage Doors: www.raynor.com/#sle.
   8. Wayne-Dalton, a Division of Overhead Door Corporation: www.wayne-dalton.com.
   9. Substitutions: See Section 01 6000 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Performance: Withstand positive and negative wind loads equal to 1.5 times design wind loads specified by local code without damage or permanent set, when tested in accordance with ASTM E330/E330M, using 10 second duration of maximum load.

B. Air Leakage Rate: Less than 0.40 cfm/sq ft when tested in accordance with ASTM E283/E283M at test pressure difference of 1.57 psf.

C. Thermal Transmittance: U-factor of 0.31 Btu/hr sq ft degrees F, maximum, in accordance with DASMA 102.

2.03 STEEL DOORS

A. Steel Doors: Flush steel, insulated; high lift operating style with track and hardware; complying with DASMA 102, Commercial application.
   1. Door Panels: Steel construction; outer steel sheet of 28 gauge, 0.015 inch minimum thickness, flush profile; inner steel sheet of 28 gauge, 0.015 inch minimum thickness, flat profile; core reinforcement sheet steel roll formed to channel shape, rabbeted weather joints at meeting rails; polyurethane insulation.
   2. Door Nominal Thickness: 2 inches thick.
   3. Exterior Finish:
      a. Factory finished with acrylic baked enamel; ~~white color~~ Architect to choose from manufacturer's standard colors.
   4. Interior Finish:
      a. Factory finished with acrylic baked enamel; ~~white color~~ Architect to choose from manufacturer's standard colors.
   5. Glazed Lights: Four ~~Three~~ glazed lights per panel, one row; set in place with resilient glazing channel.
      a. Glazing: Fully tempered glass; insulated glass units; clear; 1/2 inch nominal overall thickness.
   6. Operation: Electric.

2.04 COMPONENTS

A. Track: Rolled galvanized steel, 0.090 inch minimum thickness; 2 inch wide, continuous one piece per side; galvanized steel mounting brackets 1/4 inch thick.

B. Mounting:
   1. Sections mounted in door opening using Lap Jamb Angle Mounting; section overlaps door jambs by 1 inch (25 mm) on each side of door opening.
   2. Floor-to-Shaft Angle-Mount consisting of continuous angle extending from the floor, past header, completely up to door shaft for use with steel, wood, or masonry jambs.
   3. Continuous angle size not less than 2-5/16 inches by 4 inches by 3/32 inch (59 by 102 by 2.5 mm) on 2-inch track and 3-1/2 inches by 5 inches by 1/8 inches (89 by 127by 3.2 mm) on 3-inch track.

C. Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of galvanized steel; floating hardened steel bearing rollers, located at top and bottom of each panel, each side.

D. Lift Mechanism: Torsion spring on cross head shaft, with braided stainless steel lifting cables.
   1. Minimum safety factor of 5.
   2. Spring Cycle Life: 25,000 cycles.
   3. For Emergency Manual Operation: Hoist Chain requiring maximum exertion of 25 lbs force to open.

E. Sill Weatherstripping: One piece, heavy-duty rubber bulb with brush seal kit in aluminum track retainer base; fitted to bottom of door panel in aluminum rail, full length contact.

F. Jamb Weatherstripping: Roll formed steel section full height of jamb, fitted with EPDM rubber seal weatherstripping, placed in moderate contact with door panels, replaceable.

G. Head Weatherstripping: EPDM rubber seal, one piece full length, replaceable.

H. Panel Joint Weatherstripping: Neoprene foam seal, one piece full length.

2.05 MATERIALS

A. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G60/Z180 coating, stucco embossed surface.

B. Insulation: Foamed-in-place polyurethane, bonded to facing.

1. Same thickness as core framing members.

2.06 ELECTRIC OPERATION

A. Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by a testing agency acceptable to authorities having jurisdiction.
   1. Provide interlock switches on motor operated units.

B. Electric Operators:
   1. Mounting: Side mounted on cross head shaft.
   2. Motor Enclosure:
      a. Exterior Doors: NEMA MG 00001, Type 4; open drip proof.
   3. 1/3 hp; manually operable in case of power failure, transit speed of 12 inches per second.
   4. 120 volts, three phase, 60 Hz.
   5. Motor Controller: NEMA ICS 2, full voltage, reversing magnetic motor starter.
   6. Controller Enclosure: NEMA EN 10250, Type 1.
   7. Opening Speed: 12 inches per second.
   8. Brake: Adjustable friction clutch type, activated by motor controller.
   9. Manual override in case of power failure.
   10. See Section 26 0583 for electrical connections.

C. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated; enclose terminal lugs in terminal box sized to comply with NFPA 70.

D. Control Station: Provide standard three button (Open-Close-Stop) momentary-contact control device for each operator complying with UL 325.
   1. 24 volt circuit.
   2. Surface mounted, at location as directed by Owner.
   3. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
      a. Primary Device: Provide electric sensing edge or wireless sensing as required with momentary-contact control device.
   4. Overhead door contrctor to provide and install control station and devices.

E. Control Wiring: Solid state circuitry with provisions for connection of safety edge to reverse, external radio control hook-up and maximum run timer. Provisions for timers to close, monitored reversing devices, mid stop and lock bar sensor capability. Control wiring to be provided and installed by the overhead door contractor.

F. Safety Edge: At bottom of door panel, full width; electro-mechanical sensitized type, wired to reverse door upon striking object; hollow neoprene covered to provide weatherstrip seal.

G. Provide interconnection to security system.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

B. Verify that electric power is available and of the correct characteristics.

3.02 PREPARATION

A. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

3.03 INSTALLATION

A. Install door unit assembly in accordance with manufacturer's instructions.

B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

D. Fit and align door assembly including hardware.

E. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

F. Install perimeter trim and closures not provided with overhead door package.

3.04 TOLERANCES

A. Maximum Variation from Plumb: 1/16 inch.

B. Maximum Variation from Level: 1/16 inch.

C. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 ft straight edge.

D. Maintain dimensional tolerances and alignment with adjacent work.

3.05 ADJUSTING

A. Adjust door assembly for smooth operation and full contact with weatherstripping.

B. Have manufacturer's field representative present to confirm proper operation and identify adjustments to door assembly for specified operation.

3.06 CLEANING

A. Clean doors and frames and glazing.

B. Remove temporary labels and visible markings.

3.07 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

END OF SECTION

DOOR	HW SET
A001	13
A002	15
A100.1	35
A100.2	55
A101	13
A102	13
A103	13
A104	13
A105	13
A106	13
A107	13
A108	13
A109A	01
A109B	01
A109C	12
A110	13
A111A	16
A111B	07
A114.1	28
A114.2	28
A115	44
A117	17
A118	02
A119.1	31
A119.2	25
A119A	02
A119B	02
A119C	02
A119D	03
A119E	03
A201	13
A202	13
A203	13
A204	13
A205	13
A206	13
A207	13
A207A	04
A208	13
A209	01
A210	18
A211A	16
A211B	07
A214	28
B000.1	36
B001.1	39

DOOR	HW SET
B001.2	40
B001A	03
B001B	03
B002	02
B003.1	45
B003.2	57
B003A	02
B004	20
B004A	14
B004B	15
B005.1	46
B005.2	50
B005A	47
B006.1	30
B006.2	34A
B006.3	30
B009	02
B010	57
B011	11
B012.1	09
B012.2	09
B012A	14
B013	07
B013.1	57
B013.2	57
B013.3	57
B014	17
B016	12
B100.1	27
B100.2	27
B100.3	34
B100.4	26
B100.5	26
B100.6	32
B101.1	31
B101.2	25
B101.3	21
B101A	02
B101B	04
B101C	02
B101D	02
B101E	12
B101G	12
B102.1	34
B102.2	53
B103A	02

DOOR	HW SET
B103B	02
B103C	08
B103D	02
B104.1	23
B104.2	22
~~B105~~	~~57~~
B106	13
B107	13
B108	17
B109	07
B111	12
~~B118A~~ B105A	01
C000.1	35
C000.2	55
C001	13
C001A	15
C001B	28
C002	13
C003	39
C004.1	13
C004.2	33
C005	39
C006A	01
C006B	01
C007	13
C008	13
C009	13
C010	13
C011	13
C012	13
C013	13
C014	13
C015	01
C101	13
C101A	15
C101B	03
C102.1	41
C102.2	41
C103	41
C104.1	41
C104.2	41
C105	13
C106	07
C106A	14
C106B	14

DOOR	HW SET
C107	13
C108.1	41
C108.2	41
C109	13
C110	01
C111	13
C112	13
C113	28
D000.1	33
D000.2	27
D000.3	27
D000.4	27
D000.5	32
D000.6	26
D000.7	26
D000.8	26
D001	05
D002	56
D002A	02
D003.1	37
D003.2	43
D003A	02
D003B	06
D003C	03
D004	56
D004A	02
D005	17
D006.1	03
D006.2	03
D007.1	03
D007.2	57
D008	03
D009.1	42
D010.1	51
D010.2	51
D010.3	51
D010.4	52
D010.5	52
D010.6	48
D010.7	49
D010A	10
D010B.1	10
D010B.2	19
~~D019.2~~ D009.2	36
E100	35

DOOR	HW SET
E110	28
E116	13
E140	12
F101	23A
F103	03
F104	02
F105	02
F106	02

SECTION 1140 00 - FOODSERVICE EQUIPMENT

PART 1 GENERAL

1.01 SCOPE OF WORK

A. The Foodservice Equipment Contractor (FSEC) shall provide the labor, equipment, and materials specified in this Section in a timely manner consistent with the construction schedule. The FSEC shall procure, fabricate, store, deliver, unload, uncrate, assemble, set-in-place, level, and ready equipment for utility connections.

1. The work in this Section shall be under a separate sub-contract or a prime contract by a single qualified FSEC who shall report to the Prime Contractor and/or Owner's Representative and coordinate with other subcontractors for this project.
2. The FSEC shall submit written notification of any manufacturer or construction-related issues that are causing a delay in the equipment delivery and/or installation.
3. All specified equipment shall be installed according to the Manufacturer's written instructions, original design, and applicable codes. The FSEC shall remove all installation debris and protective coverings from all finished surfaces. Wash, clean and polish all equipment, glass, plastic, hardware, accessories, fixtures, and fittings prior to the inspection and acceptance of the work for this section. Remove all factory applied film and adhesive residue before start-up.
4. The FSEC shall provide a Project Manager as the primary point of contact to the Prime Contractor, Architect, and Owner's Representative for coordination and responding to questions pertaining to the foodservice equipment Scope of Work.
5. Tests, permits, and inspections required by the authorized having jurisdiction (AHJs) and directly related to the construction and installation of the specified foodservice equipment shall be secured and paid for by the FSEC unless otherwise specified in this Section.
6. The FSEC shall provide start-ups and demonstrations for all new Fabricated Equipment and serialized equipment specified in this Section.
7. The FSEC shall provide warranties for all new foodservice equipment specified in this Section.
8. The FSEC shall perform all operations in connection with the execution of the Work as represented in the plans and specifications including that which is reasonably inferred. The foodservice equipment bid drawings and specifications complement each other. Therefore, neither is complete without the other.
9. The FSEC shall request written clarification when the drawings and specifications contain conflicting requirements. The FSEC shall provide the better quality or greater quantity of work or material. Costs incurred by failure to clarify conflicting requirements are the responsibility of the FSEC.
    a. Where model numbers, quantities, sizes, or gauges of material differ on plans and specifications, it shall be understood that the FSEC shall figure the larger quantities, larger size, and/or heavier gauge unless advised otherwise in writing.
    b. Where an item, accessory, or option is required for a piece of equipment that is shown on the plans or elevations it shall be deemed to be provided by the FSEC even if it is not listed in the item specifications.
    c. Where all or part of an item, accessory, or option is referred to in the singular number, it is intended that such reference shall apply to as many such items, accessories, or options as necessary to complete the installation.

10. The Owner reserves the right to accept the manufacturer's replacement or equipment from a manufacturer specified as equal when equipment specified is no longer available. The Owner reserves the right to reject equipment when a specified manufacturer is sold, when sale is pending, when filing for Chapter 7 or 11 status, and receive equipment from a specified equal manufacturer.

B. Related Scopes of Work included in this Section:
1. The general conditions and all applicable supplementary conditions including drawings, specifications, addendums, instruction to bidders, Division 00, and Division 01 shall apply to the Foodservice Equipment Contractor in providing all items, equipment, submittals, materials, transportation, installation, operation is, along with methods listed, mentioned, referenced, or reasonably inferred to the work in this Section.
2. The FSEC shall coordinate and verify all items provided in this Section with all drawings, specifications, manufacturer's requirements, actual site conditions, building elements, and other equipment to ensure that there are no discrepancies or conflicts. This shall include but not limited to verification of quantities, dimensions, clearances, direction of operation, door swings, utilities, fabrication details, and required methods of installation for the Prime Contractor, Owner's Representative, and Subcontractors.
3. The FSEC shall coordinate mechanical and electrical rough-in services, manufactured equipment and fabricated equipment construction, ceiling heights, recessed floors, sleeves, wall openings, refrigeration lines, service access, existing building conditions that affect equipment, and all other building conditions required to accommodate the specified equipment including new, existing, Owner furnished and future equipment with other trades. Cut holes in equipment to accommodate pipes, drains, electrical conduit and outlets as required.
4. The FSEC shall coordinate temporary building openings required for equipment too large to be moved through the permanent building openings.
5. The FSEC shall coordinate existing/relocated, Owner furnished, and other Vendor furnished foodservice equipment as specified in this Section.
6. The FSEC shall provide necessary filler and trim panels and seal all vertical and horizontal edges of equipment adjacent to walls, ceilings and/or adjacent other equipment. All sealants shall be NSF and FDA approved for the application and shall not exceed a 3/8" bead width.
7. The foodservice equipment Bid Drawings shall not be used as construction documents or shop drawings. The foodservice equipment Bid Drawings and specifications complement each other. Therefore, neither is complete without the other. The bid drawings are for reference, assistance, and guidance only. The drawings indicated the preferred final location of equipment. The exact final location will be dictated by the building conditions.
8. The FSEC shall provide a licensed Refrigeration Contractor to install the specified remote refrigeration systems. Provide all refrigeration piping, valves, racks, insulation, pipe racking, refrigerants, and other required accessories (excluding curbs which shall be furnished by the Prime Contractor) to provide functional remote refrigeration system(s).
    a. The FSEC shall coordinate the sizes and locations of wall penetrations and sleeves with the Prime Contractor or Owner's Representative.
    b. FSEC shall coordinate the sizes and locations of the roof top compressor curbs, roof rails, and pitch pockets required for the roof top walk-in compressors specified in this Section with the Prime Contractor or Owner's Representative.

C. Related Scopes of Work Excluded from this Section:
1. Division 22 – Plumbing: Refer to Division 22 for applicable requirements regarding the materials, plumbing and mechanical services required to complete the foodservice equipment installation, including but not limited to:
    a. Provide all plumbing rough-ins per the Foodservice Equipment Plumbing Rough-in Plans, and notify FC Design, the Architect, and the Plumbing Engineer of any code issues you find.
    b. Provide the required devices specified in Division 22, such as pipes, fittings, valves, backflow prevention devices, p-traps, tailpieces, atmospheric vents, air-gap assemblies, shock-arrestors, floor drains, floor sinks, and clean-outs required for the installation of the foodservice equipment, unless otherwise specified in this Section.
    c. Provide softened hot and/or cold water meeting the operational requirements of the specified warewashing machine(s).
    d. Install the FSEC furnished plumbing fixtures including faucets, disposers, overhead sprayers, hose reels, lever/modular waste drains, floor troughs, water filter systems, and quick disconnects.

e. Extend the utilities from rough-in locations to final connection points on the equipment and interconnections between equipment and remote components. Provide required fittings, such as tee fittings, as needed. Purge all water supply lines prior to any foodservice equipment connections.
f. Extend indirect waste piping from the specified foodservice equipment to an appropriate indirect waste fixture as shown on the Foodservice Equipment Plumbing Rough-in plans.
g. Division 22 to provide all grease trap(s)/interceptor(s), including permits and fee(s) required for the foodservice equipment installation, unless otherwise specified in this Section.
h. Disconnect the utilities of the existing foodservice equipment that is relocated or removed.
i. Verify the utility requirements of all Owner and Other Vendor furnished foodservice equipment with the Architect and/or Owner's Representative.

2. Division 23 – Mechanical: Refer to Division 23 for the requirements regarding materials and ventilation services to complete the foodservice installation including but not limited to:
   a. FSEC provides the kitchen ventilation hood(s), including condensate hood(s), required for the foodservice equipment installation. Provide and install all stainless-steel wall panels and components located below the hoods as required per code.
   b. FSEC provides the kitchen exhaust hood fire protect system(s), including testing and certification, required for the foodservice equipment installation.
   c. Division 23 provide the exhaust fan(s) required for the foodservice equipment installation.
   d. Division 23 provide the supply fan(s) required for the foodservice equipment installation.
   e. Provide the ventilation system controls, including VFDs if required.
   f. Provide the start-up, testing, balancing, and certification of the systems required for the foodservice equipment installation.
   g. Provide all ductwork connecting the kitchen exhaust hood(s), including the condensate hood(s), to the corresponding exhaust and supply fans. Include duct insulation as required per code.
   h. Disconnect the utilities of the existing foodservice equipment that is relocated or removed.
   i. Verify the utility requirements of all Owner and Other Vendor furnished foodservice equipment with the Architect and/or Owner's Representative.
3. Division 26 – Electrical: Refer to Division 26 for the requirements regarding materials and electrical services to complete the foodservice installation including but not limited to:
   a. Provide all electrical rough-ins per the Foodservice Equipment Electrical Rough-in Plans, and notify FC Design, the Architect, and the Plumbing Engineer of any code issues you find.
   b. Provide electrical service panels, conduits, rough-ins, wiring, disconnect switches, outlets, switches, remote controls required for the foodservice equipment installation.
   c. Provide interconnections and final connections for the specified foodservice equipment to the Building Management System (BMS), data systems, and alarm systems required to complete the installation of the remote refrigeration systems.
   d. Provide wiring, electrical relays and/or shunt-trip breakers to be interconnected with the fire suppression system(s) to shut-off all electrical power to the cooking equipment and electrical outlets located below the kitchen exhaust hood(s).
   e. Extend utilities from rough-in locations to final connection points on the equipment and interconnections to remote components, such as FSEC furnished control panels, and required devices specified in Division 26, such as electrical disconnects, unless otherwise specified in this Section.
   f. Disconnect the utilities of the existing foodservice equipment that is relocated or removed.
   g. Verify the utility requirements of all Owner and Other Vendor furnished foodservice equipment with the Architect and/or Owner's Representative.

4. Refer to the general construction documents, for applicable provisions regarding building works to complete the foodservice installation, including but not limited to:
   a. The coordination and installation of foodservice equipment adjacent walls, floors and roof openings, sleeves, penetrations, and openings. Walk-in cooler/ freezer sub-floors, insulated floors and/or depressed slabs, waring slabs. Provide floor leveling grout and filler grout as required for the installation of the walk-in cooler/freezer.
   b. Provide roof curbs, roof rails, and pitch pockets for the FSEC furnished remote refrigeration system compressors specified in this Section.
   c. All cast-in-place concrete floors, exterior concrete footings and pads, insulated roof curbs and/or railings related to foodservice equipment, roof-top equipment stands, supports and pitch pockets. All finished walls, floors, and ceilings along with the installation of base curb framing, in filling and concrete capping of floor base curbs, risers, piping and soda line chases and building fire separation, enclosures, and wrapping piping. The Prime Contractor shall seal all openings in accordance with all federal, state, and local fire protection building and construction codes.

1.02 DEFINITIONS

A. FSEC: Foodservice Equipment Contractor. The company, organization and person(s) specifically contracted, and responsible for the Section 11 4000 Scope of Work. References to other Contractors and Divisions will be specific.

B. Furnish: Limited to the coordination, shipping, and delivery. Includes the materials/equipment itself.

C. Install: Remove packaging, assemble, set-in-place, level, and make the equipment ready for utility connections. Final connections shall be provided by the corresponding utility contractors [Reference 1.01 Subpart C]. Reset, anchor and/or seal items and accessories to adjacent surfaces, adjust, calibrate, and test, after all the final utility connections and interconnections have been made.

D. Provide: Furnish and install complete, adjusted, and ready for intended use. A combination of Furnish and Install.

E. Equal: Comparable in size and critical dimensions, capacity, features, options & Accessories, finishes, operation and require similar utility services. If equal items are submitted the FSEC shall pay all costs required to modify the work of any trade affected.

F. Buy-Out Equipment: Provide equipment offered as a standard catalog item, that which has a specific model number. The Manufacturer's catalog specification sheet or shop drawing shall identify all standard features, options, accessories, finishes and/or slight changes or modifications available. Shop or detail drawings shall be provided as requested.

G. Fabricated Equipment: Provide equipment that is not a standard catalog item and must be built to the size and shape as required for this project. All fabricated equipment shall be constructed by a single authorized fabricator who shall provide detailed shop drawings and as-built drawings.

H. Exposed: All visible surfaces or edges including those behind closed doors or access panels when opened, including when looking up from below.

1.03 REGULATORY REQUIREMENTS

A. All items, work and materials for this section shall comply with the latest US Public Health Services, the National Board of Fire Underwriters, all federal, state, local laws, and ordinances. This includes but not limited to building codes, regulations, rules, and interpretations of the authorities having jurisdiction (AHJ).

1. The equipment and installation must meet these minimum standards for this project.

[ADA]	Americans with Disabilities Act (Equipment & Installation)
[ARI]	Air Conditioning and Refrigeration Institute (Remote Refrigeration)
[ANSI]	American National Standards Institute (Equipment & Installation)
[ASHRAE]	American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc. (Equipment & Installation)
[ASME]	American Society of Mechanical Engineers (Boilers & Installation)

[ASTM] American Society for Testing and Materials (Metals, Glass, Sprayers)

[AWS] American Welding Society (Structural welding code)

[ICBO] International Conference of Building Officials

[NEC] National Electrical Code (Wiring & devices included with Food Equipment)

[NSF] National Sanitation Foundation (Equipment & Installation)

[NEMA] National Electrical Manufactures Association (Equipment & Installation)

[NFPA] National Fire Protection Association (Equipment, Installation & Fire Systems)

[OSHA] Occupational Safety and Health Agency (Equipment & Installation)

[SMACNA] Sheet Metal & Air conditioning Contractor's National Association

[UL] Underwriters Laboratories (Electrical Products, Components Assemblies)

[EISA] The Energy Independence and Security Act of 2007 (Walk-Ins, Refrigeration Systems)

[RSES] Refrigeration Services Engineers Society (Remote refrigeration systems, components, & installation)

2. Safe Drinking Water Act: Lead-free plumbing fittings, faucets and fixtures or more stringent state/local codes where applicable.
3. Laws, Codes and Regulations: Contact State and local authorities that have jurisdiction to verify any special laws, codes, regulations or permits that may be required for this project. The FSEC shall submit to local health sanitarians, engineers, building inspectors that have jurisdiction, drawings and or specifications for clarification upon request.

[UBC] Uniform Building Code (Equipment & Installation)

[BOCA] Basic Building Code (Equipment & Installation)

[SBCC] Standard Building Code (Equipment & Installation)

[IBC] International Building Code (Equipment & Installation)

4. All equipment provided for this project shall have an NSF label.
5. All electrically operated, manufactured, or fabricated equipment shall meet the current National Electrical Code standards. The equipment shall be U.L. listed and tested to agency standards or be acceptable to authorities have jurisdiction.
6. Where the drawings and specifications require a larger size or higher standard than is required by regulations, the drawings or specifications shall govern.

1.04 ALTERNATES AND SUBSTITUTIONS

A. Procedure: Submit written requests at least ten (10) days prior to the bid date and time, to the project Architect. Manufacturer or fabricator changes are not acceptable after submittal review and acceptance without written authorization from FC Design and the Owner's Representative. Each request shall include the following information:

1. Item number, description, and statement of how the proposed substitution is a betterment to the project.
2. Manufacturer's product data (specification sheets) for the specified item and the proposed substitution with annotations highlighting the performance features not meeting and/or exceeding the specification for each item. Remove information that is not being supplied or required.
3. Manufacturer's shop drawings for Fabricated Equipment that do not have standard product data (specification sheets) with annotations highlighting the performance features not meeting and/or exceeding the specification for each item.

B. Approval: The project Architect, Construction Manager, or General Contractor shall submit the request to FC Design for review. FC Design will review the proposed substitution with the Owner's Representative. The decision of FC Design and the Owner's Representative to approve or reject each request is final and binding. Determination may or may not state the reason for the decision. If approved, the project Architect will issue an addendum stating the approved alternate(s) to prime bidders of record. Verbal approval is not binding.

C. Responsibility: If a proposed alternate or substitution is accepted, the FSEC shall pay all costs required to modify the work of any trade affected to accommodate the substitution.

D. Substitutions for failure to order equipment in a timely manner are not acceptable.

E. Substitutions that to don't comply with the requirements of the bid documents are not acceptable.

1.05 SUBMITTALS

A. Procedure: Provide each of the following submittals in PDF format to the Architect and/or Owner's Representative for review and comment. The FSEC shall stamp and sign each submittal document indicating it has been reviewed by them and checked for conformance to the specifications, field dimensions, compatibility with other equipment and coordination with other trades and services prior to submittal.

1. Bid Summary: The FSEC shall provide a Bid Summary within 10 days of the contract award. The Bid Summary shall include foodservice equipment prices per item, freight, delivery to the job site, installation, and sales and use tax.

2. Schedule: The FSEC shall provide a schedule of key dates and tasks that must be completed by others to meet the equipment installation schedule within 30 days of contract award.

3. Procurement Progress: The FSEC shall provide a monthly letter to the Prime Contractor summarizing procurement progress, items stored, items delivered, items installed.

4. Product Data: The FSEC shall provide product data within 45 days of receiving a signed contract that include the following. Include a table of contents showing item number, description, and page number. Include product data (specification sheets) for every item of foodservice equipment included in this section including all new, existing, relocated, and future equipment. Annotate only relevant requirements and remove all information that is not applicable or relevant. Include a cover sheet for each item with item number and description, manufacturer, model number, quantity, optional features, special construction, installation, and utility requirements. Copies of the project specifications are not acceptable.

5. Notice of Field Verification: The FSEC shall provide a letter to the Architect and/or Owner's Representative stating that "the foodservice equipment rough-ins and special condition drawings have been field verified and fully comply with the equipment that is being provided within the contract."

6. Shop Drawings: The FSEC shall provide shop drawings at 3/4" = 1'-0" scale or larger for every Fabricated Equipment item including the following. Submit each of the following separately.

    a. Cold Storage Rooms: Show dimensions, materials, manufacturer, type of hardware, floor configuration details, weight capacities, and other pertinent data as specified and as required for construction. Indicate partial plans and elevations to illustrate the cold storage rooms and adjacent building elements. Cold storage room dimensions are subject to adjustments required by field verified dimensions. The FSEC shall measure and coordinate with finished building conditions.

    b. Kitchen Ventilation Systems: Show dimensions, materials, manufacturer, hardware, and other pertinent data as specified and as required for construction. Indicate partial plans and elevations to illustrate the kitchen ventilation systems and adjacent building elements. Include wiring diagrams, details, and installation instructions. Include fire protection details and installation instructions.

c. Stainless Steel Fabrication: Show dimensions, materials, stainless steel grade and gauge, manufacturer, hardware, and other pertinent data as specified and as required for construction. Indicate partial plans and elevations to illustrate the junction condition where fabricated equipment adjoins other equipment. Show cutout locations, field welds and joints, reinforcement, edge profiles, and installation details and methods. Fabricated Equipment dimensions are subject to adjustments required by field verified dimensions and understructure components. Field measure and coordinate with finished building conditions. Field verification shall be completed by a company approved by the approved custom fabricator.

d. Other Custom Fabrication: (Such as Serving Lines and Breath Guards.) Show dimensions, materials, colors, finishes, manufacturer, hardware, and other pertinent data as specified and as required for construction. Indicate partial plans and elevations to illustrate the custom fabricated equipment, adjacent equipment, and building elements. Show cutouts, countertop seams, field joints, field welds, reinforcement, edge profiles, and installation details and methods. Custom Fabricated Equipment dimensions are subject to adjustments required by field verified dimensions and understructure components. Field measure and coordinate with finished building conditions. Field verification shall be completed by a company approved by the manufacturer(s) of the custom fabricated equipment.

7. Coordination Drawings: The FSEC shall provide coordination drawings using the Architect's dimensioned plans and matching the sheet size of the bid documents within 45 days of receiving a signed contract. Show all foodservice equipment that is specified in Section 11 4000 including owner furnished, existing, and future equipment. Leave room for review stamps, FSEC title block, and information. It is not acceptable to copy the bid documents as this submittal. Include the following sheets:

   a. Foodservice equipment floor plan(s) at 1/4” = 1’-0” scale with equipment tags. Match the numbering of the bid documents and include equipment schedule(s) on the same sheet as corresponding the equipment plan(s).

   b. Foodservice equipment elevations at 1/2” = 1’-0” scale with equipment tags matching the numbering of the bid documents.

   c. Foodservice equipment plumbing rough-in plan(s) at 1/4” = 1’-0” scale showing exact rough-in locations with a utility symbol legend and a schedule of the utility requirements showing the equipment item number and heights. Make allowances for valves, fittings and other required components specified in Divisions 22 and 23. If utilities are already installed, field measure locations and indicate on plan, noting any objection to installed location. Dimension utility rough-ins installed in- floor from existing walls, exterior walls, or column line centers. Dimension other rough-ins from new walls.

   d. Foodservice equipment electrical rough-in plan(s) at 1/4” = 1’-0” scale showing exact rough-in locations with a utility symbol legend and a schedule of the utility requirements showing the equipment item number and heights. Make allowances for other required components specified in Division 26 and 27. If utilities are already installed, field measure locations and indicate on plan, noting any objection to installed location. Dimension utility rough-ins installed in- floor from existing walls, exterior walls, or column line centers. Dimension other rough-ins from new walls.

   e. Foodservice equipment special conditions plan(s) at 1/4” = 1’-0” scale showing the foodservice equipment layout with the finished locations of wall backing, recessed floors, curbs, special wall heights, wall openings, and equipment bases. Include a symbol legend. Dimension from new or existing walls, exterior walls, or column line centers.

B. Approval: Submittals not complying with the above outline shall be rejected and must be resubmitted until correct.

C. Coordination: The FSEC is directly responsible for the accuracy of information on their Submittals. If a change on one submittal causes a change to another, the affected submittal(s) must be revised and resubmitted as well.

1.06 CLOSEOUT DOCUMENTS

A. Operation and Maintenance Manuals

1. The FSEC shall provide: Two sets of manuals for foodservice equipment items, including (two sets of fabricated equipment as-built shop drawings. These manuals shall be ordered alphabetically by the manufacturer, separated by tabs, and include a cover sheet for each item. The cover sheet shall include the item number, description, manufacturer, model, serial number, and utility information.

    a. Provide current installation and operation manuals and parts manuals for all new foodservice equipment specified in this Section. Include the Manufacturer's name, address, and phone number. Include the local authorized service agent's (ASA) name, address, and phone number. List the FSEC if no local ASA is available. These manuals shall be delivered before the beneficial date of occupancy.

    b. Video record all training, operation, maintenance, instructions and provide digital and physical copies to the Architect and/or Owner's Representative.

B. As-Built Documents: The FSEC shall maintain one record set of as built drawings and product data with all related changes, corrections, revisions, additions, deletions as noted during the construction or installation phase. Provide these documents at the same time as the O&M data manuals.

C. Warranty Documents: [Ref: Section 11 4000, Part 3, Subpart 3.07]

1.07 SITE CONDITIONS

A. The FSEC shall field verify all on site surfaces, prepared openings, finished building dimensions and utility rough-ins to ensure that the site is ready for the equipment installation. This shall include but not limited to the verification and coordination of work by others including lighting fixtures, HVAC equipment, grease traps, building sprinkler systems, electrical services, and plumbing services.

B. The FSEC shall ensure Fabricated Equipment conforms to site dimensions and conditions and inform the Prime Contractor of any potential problems with the Fabricated Equipment, the work schedule, and delivery. Where field measurements cannot be made without delaying the work, the FSEC shall document and coordinate critical dimensions with the Prime Contractor to proceed with procurement.

C. The FSEC is responsible for changes to the equipment and/or cutting and patching of walls, partitions, ceilings, and floors necessary to receive and operate the equipment caused by failure to coordinate with the site conditions.

PART 2 PRODUCTS

2.01 FABRICATOR QUALIFICATIONS

A. Qualifications

1. Foodservice equipment fabricators must have a minimum of five years of experience in fabricating foodservice equipment like that indicated for this project and with a record of successful performance.
2. All custom fabricated equipment, excluding trim and corner guards, shall be provided by the same fabricator unless otherwise specified.
3. The custom fabricator shall field measure and verify as needed prior to fabrication.
4. The custom fabricator shall have factory-direct post-installation warranty support.
5. The fabricator shall employ a currently licensed master electrician if the items they are providing include pre-wired electrical components.

B. Approved custom stainless steel fabricators: The following companies have been approved for this project. Substitutions may be requested per the procedure specified in Part 1 of this Section.

LSV Metals Inc.
Attn: Jason Johnson
8424 Sunset Rd,
Spring Lake Park, MN 55432
(612) 868-2252

Two Rivers Enterprises
Attn: Bob Struzyk
490 River St. W, PO Box 70
Holdingford, MN 56340
(320) 746-3156

2.02 MATERIALS

A. Metals

1. Stainless Steel and Galvanized Steel Gauges Shall conform to the following thicknesses and tolerance. All gauges shall be within ±5% of the indicated thickness.

Gauge	Thickness
10	0.1406”
12	0.1094”
14	0.0781”

Gauge	Thickness
16	0.0625”
18	0.0500”
20	0.0375”

2. Standard Gauges of Fabricated Equipment elements:
   - 10 Gauge Gusset plates.
   - 12 Gauge Hat and "U" channel under bracing, hardware reinforcement.
   - 14 Gauge Worktable tops, counter tops, dish table tops, drainboards, sinks, sink inserts, sink drainboards, and brackets.
   - 16 Gauge Cabinet bases, mullions, elevated wall shelves, elevated wall cabinets, lower and intermediate shelves, legs, cross bracing, door fronts, drawer fronts, and panel skirts.
   - 18 Gauge Door enclosures, drawer enclosures, access panels, removable covers, enclosure trim panels for walk-in cold storage rooms and kitchen ventilation systems, and trim strips, exhaust hoods, wall panels, and drawer pan inserts.
3. Stainless Steel
   a. All stainless steel used in the fabrication of Fabricated Equipment shall be first-grade austenitic chromium-nickel alloys. Provide AISI Type 304 stainless steel unless otherwise specified. Ferritic and martensitic alloys are not acceptable unless otherwise specified or without approval from FC Design.
   b. AISI Grade Specifications

AISI Grade	Cr	Ni	Mo	C	Remarks
Type 304	18.0-20.0%	8.0-10.5%	-	<0.07%	Standard
Type 304L	18.0-20.0%	8.0-12.0%	-	<0.03%	Low-C 304
Type 316	16.0-18.0%	10.0-14.0%	2.0-3.0%	<0.08%	Superior corrosion resistance
Type 316L	16.0-18.0%	10.0-14.0%	2.0-3.0%	<0.03%	Low-C 316
Type 317L	18.0-20.0%	11.0-15.0%	3.0-4.0%	<0.04%	Superior corrosion resistance
Type 321	17.0-19.0%	9.0-12.0%	-	<0.08%	Ti stabilized

   c. Grind and polish surfaces producing a uniform, directional textured finish, free of cross scratches, tool, die marks and stretch lines. Polish exposed surfaces to a #4 (brushed) finish with the grain running parallel to the longer dimension for each piece. Remove any embedded foreign matter and leave surfaces chemically clean. Clean and deburr all edges and corners.
   d. Exposed surfaces shall be protected from damage using a temporary strippable or peel-off covering.
   e. ANSI Type 304, #4 mechanical finish, 180 grit, seamless or welded annealed, ground smooth, polished, heat treated and quenched to eliminate precipitation, drawn true, and polished with concentric grain.
4. Galvanized Steel: Provide Armco (or equivalent) hot-dipped, tight-coat galvanized iron. Use the largest sheets possible with as few joints as necessary. Smooth welded or damaged surface areas and cover with two coats of gray hammer-tone epoxy spray paint.
5. Gussets: Provide enclosed type with a minimum 3” top diameter. Continuously weld gussets to the underside of table top framework sink bottoms and drainboards.

B. Hardware

1. Fasteners: Bolts, screws, and nuts shall be stainless steel or the same material of the surface applied, spaced for best fastening. All exposed fastener threads shall be capped, including those located inside cabinets, with stainless steel lock washers and stainless steel cap nuts. Rivets are not an acceptable method of attachment.

2. Hinges shall be Component Hardware Model M75-5003 capable of 180°-270° opening unless otherwise approved. Use doweled cup and hinge screws for MDF installations. Provide Component Hardware Model M30-2400 magnetic and self-aligning catches when required for the hinge.
3. Drawer pulls shall be Component Hardware Model P46-1010 with brushed stainless finish unless otherwise specified.
4. Locks shall be Component Hardware P30 Series with stainless steel finish unless otherwise specified. Provide a master key that will open the locks of all foodservice equipment in each specified area.

C. Sound Deadening: All sound deadening on Fabricated Equipment shall be spray-on mastic unless otherwise specified.

2. The exposed underside of stainless steel work surfaces and sink bottoms shall have a smooth finish and coating shall be held 1" back from open edges. No coating may extend past the front sink cove corners.

3. Where sound deadening pads are specified, provide Schnee-Morehead or equal tape type sealant between all tops and under bracing and frame members.

D. Sealants: At minimum shall meet FDA's regulation #21 CFR 177.2600 and NSF C2 in foodservice area and/or ASTM C920 Type S, Grade NS in non-foodservice areas. Limit colors to aluminum, clear or white.

E. Glass: Provide a minimum 3/8" tempered, unless otherwise noted or specified.

F. Plastic Laminate: Comply with NEMA LD 3 and NSF 35 requirements. Laminates shall be NSF certified for end-use applications indicated.
1. Laminates shall be 0.050 inch thick for horizontal and vertical surfaces and 0.042 inch thick for post-formed surfaces, smooth texture, and easily cleanable unless otherwise specified.
2. Colors shall be as specified in this Section OR selected by Architect or Owner's Representative via RFI. Provide samples if requested.
3. Finishes shall be manufacturer standard options unless otherwise specified. Ensure that all instances of directionally specific laminate on the project have the same orientation.
    a) Finish-A: Postforming Laminate Product: Wilsonart Type 350 with 0.028-inch nominal thickness and shall conform with the requirements of ISO 4586 for Grade HGP. Provide Wilsonart, High Pressure Laminate (HPL), Jubilee Oak 8242-38 Fine Velvet unless otherwise specified.
    b) Finish-B: General Purpose Laminate Product: Wilsonart Type 335 with 0.028-inch nominal thickness and shall conform with the requirements of ISO 4586 for Grade HGP. Provide Wilsonart, High Pressure Laminate (HPL), Jubilee Oak 8242-38 Fine Velvet unless otherwise specified.
4. Approved Manufacturers: Formica, Nevamar, and Wilsonart. Though one finish is specified, equal finishes may be submitted with samples for consideration in accordance with the requirements listed in Part 1.

G. Adhesives
1. Joint adhesives shall fully comply with the requirements and recommendations of the manufacturer of the adjacent materials. Use Akemi North America epoxy-type joint adhesive unless otherwise directed by the adjacent material manufacturer. The joint sealant shall be tinted to match quartz surfacing. Silicone joint seaming is not acceptable for adjoining solid surface and quartz composite materials.
2. Substructure Mounting Adhesive shall fully comply with the requirements and recommendations of the manufacturer(s) of the adjacent materials. Use flexible silicone, epoxy, or polyester adhesive unless otherwise directed by the adjacent material manufacturer(s).

H. Supports and backing shall be as detailed and fully comply with the Manufacturer's recommendations.

2.03 FABRICATED EQUIPMENT QUALITY STANDARDS

A. Remove burrs from sheared edges of metalwork, ease the corners, and smooth to eliminate a cutting hazard. Bend sheets of metal at not less than the minimum radius required to avoid grain separation in the metal. Maintain flat, smooth surfaces, without damage to the finish.

B. Reinforce metal at locations of hardware, anchorages, and accessory attachments wherever metal is less than 14 gauge or requires mortised application. Conceal reinforcements to the greatest extent possible. Neatly finish the reverse side. Depressions at these points are not acceptable.

C. Where components of Fabricated Equipment shall be galvanized and involve welding or Machining of metal heavier than 16 gauge, complete the fabrication and provide hot-dip galvanizing of each component to the greatest extent possible. Comply with ASTM A123 Standard Specification for zinc (hot-dip galvanized) coatings on iron and steel products.

PART 3 EXECUTION

3.01 STORAGE AND DELIVERY

A. All equipment shall be stored in a bonded or insured company warehouse. The storage space shall be dry, well-ventilated with the equipment placed on blocking at least 6" above the floor. All precautions shall be taken to prevent any corrosion or damage to the stored equipment. The storage location shall be open for inspection at any time prior to equipment installation.

B. The equipment shall be delivered to the project site in factory assembled units with protective crating and coverings free from manufactures defects or damage due to shipping, delivery, unloading or handling. Damaged items found prior to acceptance shall be rejected and must be immediately removed and replaced without additional costs or delays.

3.02 PRELIMINARY INSPECTION

A. The FSEC shall field verify the dimensions and conditions of all spaces where foodservice equipment installed in the scope of work is located. Conform to the finished building conditions and submit written notification to the Architect and Owner's Representative if building conditions prevent equipment from functioning properly.

B. The FSEC shall coordinate the equipment dimensions with the building openings and construct equipment in sections sized to the limitations of the openings.

C. The FSEC shall field verify that the voltages, air volumes, water temperature, water pressure, and steam pressure meet the equipment requirements and coordinate changes to ensure proper operation.

D. The FSEC shall notify the Prime Contractor, Architect, and Owner's Representative of any deficient conditions. It is not acceptable to cover deficient work. By commencing the installation of equipment, the FSEC excepts the site conditions. The FSEC is responsible of all expense(s) of changes to equipment and/or building element modifications necessary to receive and operate the equipment caused by the FSEC's failure to coordinate with site conditions and or notify the Prime Contractor, Architect, and Owner's Representative of deficient conditions.

3.03 INSTALLATION

A. Foodservice Equipment Installer Qualifications:
   1. The foodservice equipment Installer shall have at least five years of experience installing foodservice equipment on consultant specified projects of similar size and complexity.
   2. If field welds are required, the foodservice equipment Installer shall provide a currently certified NSF welder who is an employee of the Installer to perform all foodservice equipment field welding and polishing.
   3. Provide references for two projects of similar size and complexity completed within the past five years to the Owner's satisfaction if requested.

B. The FSEC shall coordinate the installation schedule with the Prime Contractor and Owner's Representative and shall comply with the requirements of the construction schedule including correcting deficient work. Submit written notification of any manufacturer or construction-related issues that are causing a delay in the equipment delivery and/or installation. The FSEC shall not delay the project completion.

C. The installation shall fully comply with the requirements of all applicable current national, state, and local codes.

D. Install trim to enclose the equipment to the adjacent building elements that cannot be sealed with silicone as specified and as required by code, whichever is greater. All trim material shall match the adjacent equipment surface. Exposed fasteners are not acceptable. unacceptable as a substitute for accuracy and neatness.

E. The FSEC shall use all reasonable means to protect the equipment, fixtures, and materials before, during and after the installation and prior to the final acceptance of the project. The foodservice equipment shall not be used for tool or material storage, work benches, scaffolding, stepladders, work platforms or stacking areas, by either the FSEC or other trades. The FSEC shall replace or repair items that are lost or damaged prior to Owner acceptance.

3.04 EXISTING EQUIPMENT

A. Existing equipment that is being removed or relocated shall be disconnected from connected utilities by licensed contractors as stated in Part 1 of this Section.

1. The FSEC shall disassemble (if required), remove, and store until ready for installation all equipment that is to be relocated. Once the site conditions are ready for installation, the FSEC deliver and locate the equipment per plan and ready it for interconnections and final connections. It is expected that the equipment will be in the same working order as when it was removed from service.
2. The FSEC shall submit an inventory identifying each piece of equipment removed, including all attachments and accessories, that states the working order of the equipment when removed from service to the Owner's Representative and FC Design for review.
3. The Owner's Representative has the option to retain existing equipment. An authorized demolition contractor (not included in the FSEC scope of work) shall obtain written authorization from Owner's Representative to remove equipment from site. This contractor will remove and dispose of equipment that is not being relocated.

3.05 CLEANING

A. The FSEC shall remove masking and protective coverings from stainless steel and other finished surfaces.

B. Clean and polish equipment including glass, plastic, hardware, accessories, fixtures, and fittings prior to the inspection and acceptance of the Work.

C. Existing equipment shall be installed in the same state as when it was removed from service.

3.06 START-UP AND DEMONSTRATION

A. Start-up
1. All electrical and plumbing connections to the equipment shall be completed prior to beginning start-up. This includes ensuring that the utility connections have been fully tested, purged, sanitized, and adjusted. The FSEC shall obtain written confirmation for each trade that this is complete.
2. The FSEC shall provide factory-authorized representatives to perform the equipment start-up and test the full range of operation for all new foodservice equipment provided. The representatives shall make all necessary adjustments for the equipment installation and calibration.
   a. Start and run all refrigeration equipment for a minimum of 48-hours and verify that it operates as intended and holds the design temperatures within the Manufacture’s operating tolerance and without excess noise or vibration. New equipment not holding temperature shall be immediately repaired or replaced.
   b. Coordinate dishmachine testing with Detergent Vendor.
   c. Properly activate water filtration systems for the foodservice equipment per Manufacturer's recommendations.
   d. Calibrate controls, operating temperatures, pressure regulators, motor rotations, and safety switches.
3. The FSEC shall provide a letter of completion to the Architect and Owner’s Representative stating that all equipment provided and/or installed by the FSEC has been completely inspected, adjusted, calibrated by the FSEC or an authorized service agent after the FSEC has completed all final equipment testing and training demonstrations to the owner’s satisfaction.

B. Demonstration and Training
1. The FSEC shall organize, schedule, and coordinate equipment operating and maintenance training demonstration(s) with the Owner’s Representative. After coordinating availability with the Owner’s Representative and Manufacturer’s Representatives, the FSEC shall submit a training schedule to the Owner’s Representative.
2. Provide copies of all instructional, operational, maintenance manuals, charts and audio and video media at least two weeks prior to demonstration.
3. Authorized Manufacturer’s Representatives and/or service technicians shall review data manuals and provide hands-on operational, cleaning, and maintenance instructions to the Owner’s Personnel and the appropriate inspectors for each piece of serialized equipment and Fabricated Equipment.
4. The FSEC shall host the training demonstrations on site and provide a written record of the attendees and a list of unresolved questions raised from the training session to the Architect.
5. Submit a combined chart summarizing the demonstrations that includes the item number, equipment description/category, date of training, person and firm responsible for the training, and attending Owner’s Representative’s initials.

3.07 WARRANTY

A. General Foodservice Equipment Warranty: The following warranty shall not deprive the Owner of other rights they are entitled to under other provisions of the contract documents. The following warranty shall be in addition to and run concurrently with warranties under other provisions of the contract documents.
   1. The FSEC shall provide a one-year parts and labor warranty for all new foodservice equipment specified in this section beginning on the beneficial date of occupancy.
   2. The FSEC shall provide a minimum of a five-year replacement compressor warranty on all refrigeration equipment that covers the total cost of the compressor replacement. The FSEC shall provide a one-year service contract that covers repairs without charge for materials, labor, and travel on all new refrigeration systems specified in this Section. If a malfunction occurs outside of the one-year service contract period, the owner shall be responsible for labor costs unless the malfunction is caused by improper installation. The FSEC shall be responsible for all repair costs caused by improper installation.
   3. The FSEC shall respond to the Owner's request for service on refrigeration systems within 4 hours or less to reduce the loss of food product. The FSEC shall respond to the Owner's request for service on equipment without refrigeration systems within 24 hours of request.

B. The FSEC shall obtain a letter of substantial completion from the Prime Contractor stating the beneficial date of occupancy. All warranties shall start on the beneficial date of occupancy.

C. The FSEC shall provide completed copies of all warranty documents with the Closeout Documents.

3.08 ITEM SPECIFICATIONS

A. The following item specifications are based on the model numbers available at the time of preparing the construction documents. The FSEC shall notify FC Design if these models are not available at the time of bid in accordance with the requirements listed in Part 1 of this Section.

B. The FSEC shall provide the following specified foodservice equipment items or approved alternates in accordance with the requirements listed in Part 1 of this Section.

C. Consolidate equipment manufacturers to provide a single point of contact to the Owner.
   1. All walk-in cold storage room refrigeration systems shall be manufactured by a single company.
   2. All reach-in/roll-in/thru refrigeration & hot holding equipment shall be manufactured by a single company.
   3. All stainless steel Fabricated Equipment shall be manufactured by a single company.
   4. All plumbing fixtures shall be manufactured by a single company.
   5. All water filtration systems shall be manufactured by a single company.
   6. All ice machines shall be manufactured by a single company.

ITEM 1 - WALK IN COMBINATION COOLER FREEZER, BOX ONLY (1 REQ'D)
ThermalRite Combination Walk-In Cooler/Freezer

Walk-in combination cooler (+35°F)/freezer (-10°F), outdoor, with 4" recessed floor, modular panel, high-density foam rail construction, sized per plan. (Reference: QF801)
Insulation: Non-HCFC urethane foam, class-1, tongue-and-groove high-density foam rails with cam-locks, UL-listed, NSF-listed.
Wall panels: 4" thick. White 24 ga. Sanisteel with 6mm anti-microbial coating interior finish, embossed 24 ga., type-304 stainless steel with 1/8" aluminum tread brite wainscoting from T.O. cove base to 36" AFF exposed exterior finish, and embossed 26 ga. acrylume concealed exterior finish. Architect to select from manufacturers full range of Exterior colors.
Recess Exterior Panel Gaskets (0.25")
Ceiling panels: 5" thick. Sanisteel with 6mm anti-microbial coating interior finish, embossed 24 ga., type-304 stainless steel exposed exterior finish, and embossed 26 ga. acrylume concealed exterior finish.
Floor panels: 4-1/8" thick reinforced floor designed for 175 lb point load and 5,000 PSF uniform load. 0.050 smooth aluminum interior finish and embossed 26 ga. acrylume concealed exterior finish. Thermoplastic Flooring - Dark Gray.
Light(s): (6) LED, 48"L, 5,400 lumens, CRI>82, non-diming, vapor-tight, with full-length shatterproof polycarbonate lens and one-piece white polycarbonate body, class-2 fixture, IP65.
Enclosure/trim: Provide trim and enclosure panels to cover all gaps between the exterior of the insulated panels and the adjacent building walls and ceilings. Provide removable panels were noted per plans and elevations.
Membrane roof: Duro-Last PVC roofing membrane with Duro-Last Dura Blue separation slip sheet with 6" overlap at joints, roofing board, tapered foam blocks to provide continuous roof slope. Overhang the top edge of the wall panels by 2” on all exposed sides and extend at least 8” up on adjacent building walls.
Sealant: Silicone, match panel finish. Fully seal all panel joints and penetrations.
Warranty: 1-year parts and labor warranty on modular panels and accessories that covers defects in workmanship - NOT refrigeration or install.
DOOR D01 - Finished opening 48" x 78" hinged flush freezer door, 5" sill with 5/8” allowance for tile and grout.

1 ea.	Heated Jamb (4 Sided) W/ Threshold
1 ea.	Heat In Bottom of Door
1 ea.	Threshold, Floored Flat Recessed Unheated
1 ea.	Vent - 115V Hi-Flow Heated Pressure Relief Port 5" (Kason 1832)
1 ea.	Gasket- Magnetic
1 ea.	Kick plate: 35.125" 1281 - interior and exterior of door
1 ea.	Kick plate: 36" 1281 - interior and exterior of jamb
1 ea.	Latch - Kason 27C 1/4 Turn Chrome Deadbolt
1 ea.	Door Closer - Kason 1094 Sureclose Hydraulic (Concealed Mounting)
3 ea.	Kason 1346 Hinge
1 ea.	1967-2 Digital Thermometer W/ Switch

DOOR D02 - Finished opening 48" x 78" hinged flush cooler door, 5" sill with 5/8” allowance for tile and grout.

1 ea.	Heated Jamb (4 Sided) W/ Threshold
1 ea.	Heat In Bottom Of Door
1 ea.	Threshold, Floored Flat Recessed Unheated
1 ea.	Gasket- Magnetic
1 ea.	Kick plate: 35.125" 1281 - interior and exterior of door
1 ea.	Kick plate: 36" 1281 - interior and exterior of jamb
1 ea.	Latch - Kason 27C 1/4 Turn Chrome Deadbolt
1 ea.	Door Closer - Kason 1094 Sureclose Hydraulic (Concealed Mounting)
3 ea.	Kason 1346 Hinge
1 ea.	1967-2 Digital Thermometer W/ Switch

ACCESSORIES –

12 ea.	SEISMIC ANGLE - SANISTEEL WHITE - 24 GA. ANTI-MICROBIAL (6MM) (1.5 X 1.5 X 96)
1 ea.	Model INTERNAL BEAM 179"W12x26 Internal Beam, Prime Painted - Gray - FOB Factory
1 ea.	Model INTERNAL BEAM 187"W12x26 Internal Beam, Prime Painted - Gray - FOB Factory
9 ea.	Model BEAM CLIPS Beam clips for interior beams - FOB Factory
1 ea.	Model CLEAR VU BI-PARTING Clear Vu Bi-Parting .08 PVC Medium Temp swing door for 48" x 78" door: SS4878 - FOB Factory
1 ea.	Model CLEAR VU BI-PARTING Clear Vu Bi-Parting .08 PVC Low Temp swing door for 48" x 78" door: SS4878-LT - FOB Factory
1 ea.	Model SMARTRITE OPTIONAL

ITEM 2 - COOLER COILS (1 REQ'D)
ThermalRite Model LEL0155AY6AMAG0212

Heatcraft DOE LEL0155AY6AMAG0212 Air defrost Low Profile with Dual Speed EC Motor - A2L - intelliGen Enabled (R454A) coil. 115/1/60, Fan amps 2.7, Defrost amps N/A

ITEM 3 - COOLER CONDENSER (1 REQ'D)
ThermalRite Model LCH0020MCACYA0000

Heatcraft DOE LCH0020MCACYA0000 Med Temp Air Cooled Scroll Condensing Unit with microchannel condenser, Liquid Line Filter/Drier and Sight Glass. Refrigeration system is designed to maintain 35°F at 95°F ambient temperature around box and 95°F outdoor ambient temperature assuming products enter at 35°F with moderate traffic. 208-230/3/60, RLA 9.6, MOPD 20, MCA 15, 2hp. BTUH: 18530 Room Temp: 35°F Ambient: 95°F

1 ea. Model WARRANTY Compressor-motor warranty extended to 5-years, 1-year labor warranty
1 ea . Model REFRIGERATION SERVICE 1 Year Refrigeration Service Agreement - FOB Factory
1 ea . Model SAFTEY SHUT-OF VALVE A2L Safety Shut-off Valve (Part #29338401) - FOB Factory
1 ea . Model SAFTEY CHECK VALVE A2L Safety Check Valve (Part #29308803) - FOB Factory
1 ea . Model INTERGRATION CARD Integration Card - FOB Factory
1 ea . Model WEB CARD Web Card - FOB Factory

ITEM 4 - FREEZER COILS (1 REQ'D)
ThermalRite Model LEL0155BY6EMAG0212

Heatcraft DOE LEL0155BY6EMAG0212 Electric defrost Low Profile with Dual Speed EC Motor - A2L - intelliGen Enabled (R454A) coil. 208-230/1/60, Fan amps 1.5, Defrost amps 13.7

ITEM 5 - FREEZER CONDENSER (1 REQ'D)
ThermalRite Model LCH0055LCACYA0000

Heatcraft DOE LCH0055LCACYA0000 Condensing Unit for Holding Freezer - Refrigeration system is designed to maintain -10°F at 95°F ambient temperature around box and 95°F outdoor ambient temperature assuming products enter at -10°F with moderate traffic. Low Temp Air Cooled Scroll Condensing Unit with microchannel condenser, Liquid Line Filter/Drier and Sight Glass. 208-230/3/60, RLA 17, MOPD 50, MCA 37.5, 5.5hp BTUH: 17320 Room Temp: -10°F Ambient: 95°F

1 ea. Model WARRANTY Compressor-motor warranty extended to 5-years, 1-year labor warranty
1 ea. Model REFRIGERATION SERVICE 1 Year Refrigeration Service Agreement - FOB Factory
1 ea. Model SAFTEY SHUT-OF VALVE A2L Safety Shut-off Valve (Part #29338401) - FOB Factory
1 ea. Model SAFTEY CHECK VALVE A2L Safety Check Valve (Part #29308804) - FOB Factory
1 ea. Model INTERGRATION CARD Integration Card - FOB Factory
1 ea. Model WEB CARD Web Card - FOB Factory

ITEM 6 - SPARE NO.

ITEM 7 - 36" X 21" DUNNAGE RACK (4 REQ'D)
Cambro Model DRS360480

S-Series Dunnage Rack, slotted top, 1500 lb. load capacity, 21"D x 36"W x 12"H, polypropylene, one-piece, seamless double wall construction, includes (1) Camlink, 4" square legs, speckled gray, NSF, Made in USA

ITEM 8 - 48" X 21" DUNNAGE RACK (8 REQ'D)
Cambro Model DRS480480

S-Series Dunnage Rack, slotted top, 3000 lb. load capacity, 21"D x 48"W x 12"H, polypropylene, one-piece, seamless double wall construction, includes (1) Camlink, 4" square legs, speckled gray, NSF, Made in USA

ITEM 9 - SPARE NO.

ITEM 10 - 48" X 90" X 48" X 84"H U-SHAPED 5-TIER SHELVING UNIT (3 REQ'D)
Cambro Model SHELVING UNIT

6 ea. Model EXU244884VS5480 Starter Unit, 24"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

3 kt. Model CBSK2442VS5580 Shelf Kit, 24"W x 42"L, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: vented and solid shelf plates for 5 shelves with antimicrobial protection, (10) traverses & (5) bags of 8 dovetails (4 each A & B), brushed graphite, NSF listed components, Made in USA

ITEM 11 - 54" X 24" X 84"H 5-TIER SHELVING UNIT (6 REQ'D)
Cambro Model EXU245484VS5480

Stationary Starter Unit, 24"W x 54"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 12 - SPARE NO.

ITEM 13 - 48" X 24" X 84"H 5-TIER SHELVING UNIT (6 REQ'D)
Cambro Model EXU244884VS5480

Stationary Starter Unit, 24"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 14 - 36" X 24" X 84"H 5-TIER SHELVING UNIT (2 REQ'D)
Cambro Model EXU243684VS5480

Stationary Starter Unit, 24"W x 36"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 15 - 48" X 18" X 84"H 5-TIER SHELVING UNIT (2 REQ'D)
Cambro Model EXU184884VS5480

Stationary Starter Unit, 18"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), speckled gray, 800 lbs. capacity per shelf /2,400 lbs. max capacity, Made in USA, NSF

ITEM 16 - SPARE NO.

ITEM 17 - 36" X 24" X 72" CAN RACK SHELVING UNIT (3 REQ'D)
Cambro Model CPU243672C96480

Premium Ultimate #10 Can Rack Stationary Unit, 24"W x 36"L x 72"H (26"W with can rack overhang), includes: (2) assembled post kits (posts constructed of steel with polypropylene exterior), (9) traverses & molded-in dovetails, (15) can rack panels, (72) can rack brackets, 800 lbs. capacity per shelf /2,000 lbs. max capacity, speckled gray (assembly required)

ITEM 18 - 72" X 48" X 84"H L-SHAPED 5-TIER SHELVING UNIT (1 REQ'D)
Cambro Model SHELVING UNIT

1 ea. Model EXU244884VS5480 Stationary Starter Unit, 24"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

1 ea. Model EXA244884VS5480 Stationary Add-On Unit, 24"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (2) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), speckled gray, 800 lbs. capacity per shelf /2,400 lbs. max capacity, Made in USA, NSF

ITEM 19 - 68" X 54" X 84"H L-SHAPED 5-TIER SHELVING UNIT (2 REQ'D)
Cambro Model SHELVING UNIT

2 ea. Model EXU245484VS5480 Stationary Starter Unit, 24"W x 54"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

2 ea. Model EXA244284VS5480 Stationary Add-On Unit, 24"W x 42"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (2) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), speckled gray, 800 lbs. capacity per shelf /2,400 lbs. max capacity, Made in USA, NSF

ITEM 20 - STAINLESS STEEL CORNER GUARD (6 REQ'D)
Approved Fabricator – CORNER GUARD

14 ga. Stainless Steel 90 Degree Corner Guard 36" in height

ITEM 21 - 48" X 24" X 84"H 5-TIER SHELVING UNIT (5 REQ'D)
Cambro Model EXU244884VS5480

Stationary Starter Unit, 24"W x 48"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 22 - 42" X 24" X 84"H 5-TIER SHELVING UNIT (2 REQ'D)
Cambro Model EXU244284VS5480

Stationary Starter Unit, 24"W x 42"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 23 - 36" X 24" X 84"H 5-TIER SHELVING UNIT (1 REQ'D)
Cambro Model EXU244284VS5480

Stationary Starter Unit, 24"W x 36"L x 84"H, 5-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented and (1) solid reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts with leveling feet installed, pre-assembled post connectors & wedges, (10) Universal Traverses &(5) bags of 4 dovetails (10 left, 10 right), 800 lbs. capacity per shelf /2,400 lbs. max capacity, speckled gray, Made in USA, NSF

ITEM 24 - 102” EXHAUST HOOD (1 REQ'D)
Accurex Model XXEW-204.00-S

Exhaust Hood, 102” L x 60" W x 24" H, with Supply Plenum, (2) 51" L x 18" W x 4", Section 1: 1,700 CFM Exhaust and 1,700 CFM Supply, Section 2: 1,900 CRM Exhaust and 1,700 CFM Supply, 430 SS Material where exposed, Included Performance Enhancing Lip (P.E.L.) for up to 31% Lower Exhaust Rates, and Sloped Grease Trough with Enclosed Grease Cups per NFPA 96 Requirements. UL 710 Listed w/ out Exhaust Fire Damper. Previsions for zero clearance to combustibles on top. Factory Mounted 3" Back Zero Clearance Airspace. Utility / Fire Cabinet Mounted on Right. Continuous Capture for Multi-Section Hoods. Exhaust Air Balancing Baffle
Accessories:

1 ea. X-Tractor (Spark Arrestor Incl.) - Stainless Steel
4 ea. Round LED Light Fixtures
~~1~~2 ea. Factory Mounted Exhaust Collar: 12" W x 12" L
~~2~~4 ea. Factory Mounted Supply Collars: 16" W x 30" L
1 ea. Air Curtain Supply (ASP) Front with Dampers
1 ea. Stainless Steel Backsplash Panel 80" High 216" Long
1 ea. 18 in. High Ceiling Enclosures on - Left Front Right

ITEM 25 - EXHAUST FAN (1 BY DIV. 23)
Division 23 – Mechanical

ITEM 26 - MAKE-UP AIR UNIT (1 BY DIV. 23)
Division 23 – Mechanical

ITEM 27 - HOOD CONTOL (1 REQ'D)
Accurex Model XKC-DCV-S-11-2-1-0

Constant Volume Controls for kitchen ventilation system, (1) Exhaust Fan (Provided by Mechanical), (1) Supply Fan (Provided by Mechanical), Mounting Location: Utility Cabinet on Right of Hood. Touchscreen Mounting: Ship Loose, Div. 26 to install in cabinet. UL/ULC Listed, 304 Stainless Steel Enclosure, Capture tank mounted temperature sensors. Full Color Touchscreen Control Interface. Exhaust Max During Fire, Power for Shunt Trip. The FSEC shall coordinate configuration with fans provided by Div. 23. Temperature Interlock (Automatically starts fans when cooking occurs in compliance with IMC). (1) Temperature Sensor Installed. Lights Off During Fire. Hood Light Control.

50 ft. Model TOUCHSCREEN CABLE Touchscreen Cable

ITEM 28 - FIRE SUPRESSION SYSTEM (1 REQ'D)
Accurex Model FSSC - 15 - 2

Hood Fire Suppression System. Pre-Pipe with Parts and Factory Coordinated Installation. Detection Type: Mechanical, Coverage: Appliance Specific, Mounting Location: Utility cabinet on hood, System Size: 6 Gallon, Flow Points: Maximum of 22 and 15 are utilized. Metal Blow Off Caps included.

1 ea. OEM Regulated Release Assembly
2 ea. 3 Gallon Tank Assembly
1 ea. Manual Pull Stations
1 ea. Hood Microswitch
1 ea. Alarm Initiating Switch
1 ea. FEILD HOOK-UP Labor Information: Hook-up of detection line and supply line is included. Surface mounting of the manual pull station in a pre-determined location is included. Charging and arming of the system is included. Permit included. Hood Puff Test Fee Included. Include all necessary travel and provide union labor IF REQUIRED BY THE DIV. 00 or DIV. 01 Specifications.

ITEM 29 - MICROWAVE OVEN (1 REQ'D)
ACP Model HDC12A2

Commercial Microwave Oven, countertop, stackable, 0.6 cu. ft. capacity, 1200 watts, heavy volume, (2) magnetrons, 4-stage cooking, multiple portion setting, (11) power levels, (100) memory settings, smart USB connectivity, ACP Programming compatible, multi-language operation, 60-minute max cooking time, touchpad controls with LED display, interlock safety switch, audible end of cycle signal, side hinged door with tempered glass, Grab & Go door handle, sealed ceramic interior shelf, lighted interior, stainless steel exterior & interior, 2kW, 120v/60/1-ph, 20.0 amps, cord, NEMA 5-20, cETLus, ETL-Sanitation

1 ea. 3 year full warranty, standard

ITEM 30 - TILTING SKILLET BRAISING PAN, ELECTRIC (1 REQ'D)
RATIONAL Model IVARIOPRO XL 440/480V 3PH (LMX100DE)

iVario Pro XL Multifunctional Cooking Center, (1) 40 gallon pan, integrated heating energy management system, 85° to 480°F temperature range, heating zones up to (4) individually controlled heating zones, integrated recipe intelligent cooking system, 6-point sensor core temperature probe, AutoLift (baskets and arm required for use), portioned water dispenser, retractable hand shower, Ethernet interface, WiFi enabled, includes stand with plastic feet, 440/480v/60Hz/3-ph, 44.0 kw, CE, ETL, NSF, IPX51 ea. 2 years parts and labor warranty, standard

1 ea. Model CAP Chef Assistance Program, a RATIONAL certified Chef conducts 4 hours/location specialized application training with personnel, no charge. **THE FSEC SHALL PROVIDE A VIDEO OF THIS TRAINING ON SITE WITH THE CLOSEOUT DOCUMENTS.**
1 ea. Model 9999.2221 RCI RATIONAL Certified Installation. Provide documentation with closeout documents.
2 ea. Model 9999.1009 include all necessary travel.
1 ea. Model 8730.1565US Installation Kit, includes parts for: water connection, electric hardwiring, & copper drain line, for iVario size XL (440/480v)
1 kt. Model 60.71.267 Caster Kit, (4) casters 5", 2 lockable for size L and XL. (not height adjustable)
1 ea. Model 87.00.732US Safety-Set, Equipment placement system for all casters-mounted equipment, allows precise, consistent equipment placement for drain lines to floor sinks and under the fire suppression in ventilation systems, satisfies NFPA codes 17A (5.6.4) and 96 (12.1.2.3), includes tow (2) pieces and installation pack.
1 ea. Model 60.74.696 Storage Cabinet for Base, open front, (2) compartments, for storing GN accessories, for iVario XL models
1 ea. Model 60.70.107 Mobile Cart, for transporting 20" x 25" or 12" x 20" hotel pans, height adjustable, for size L and XL
1 ea. Model 60.73.920 Cleaning Kit, includes: 2.65 gal. grill cleaner, (1) cleaning arm, (2) rough pads, (2) soft pads, & (1) cleaning scrub
3 ea. Model 60.74.983 Boiling Basket, for use with AutoLift, for size L and XL
1 st. Model 87.00.744 Accessory Package, includes: (1) spatula, (1) AutoLift arm, (3) boiling baskets, (1) strainer, (3) pan base rack, & (1) cleaning scrub, for size XL

ITEM 31X – 12" 2-BURNER RANGE, ELECTRIC (1 RELOCATED)
Vulcan Model EV12-2FP208

Expando Range, electric, 12", (2) 2.0 kW 9-1/2" French plates, round, infinite controls, enclosed base, stainless steel front, sides, 10" riser, 6" legs, 208v, NSF, cULus. 208v/50-60/3-ph, 4kW, 17.3 amps, direct wire, standard

ITEM 32X – DOUBLE STACKED CONVECTION OVEN, ELECTRIC (1 RELOCATED)
Vulcan Model VC5ED

Double Stacked Convection Oven, electric, single-deck, standard depth, solid state controls, 5-hour timer with digital display enhancement, 150° to 500°F temperature range, (5) oven racks per deck, independently operated removable doors with double pane windows, porcelain on steel interior, interior light, stainless steel front, top, sides & 23-3/4" legs, 1/2 HP blower motor, 12.5kW, cUL, UL, NSF, ENERGY STAR. 208v/60/3-ph, 35 amps, standard each.

ITEM 33 - COMBI OVEN, ELECTRIC - DOUBLE 6 FULL (1 REQ'D)
RATIONAL Model ICP 6-FULL ON 6-FULL E 480V 3 PH

Two (2) iCombi Pro 6-Full Size Combi Ovens, double stack, electric, (12) 18" x 26" sheet pan or (24) 12" x 20" steam pan or (12) 2/1 GN pan capacity, (6) stainless steel grids included, intelligent cooking system with (4) assistants; automated climate management, integrated recipe intelligent cooking system, integrated a-la-carte production process manager, & integrated equipment cleaning system, (6) operating modes, (5) cooking methods, (3) manual operating modes, 85° to 572°F temperature range, quick clean, care control, eco mode, 6-point core temperature probe, retractable hand shower, Ethernet interface, Wi-Fi enabled, 440/480v/60Hz/3-ph, 22.4 kW each, CE, IPX5, UL, cULus, NSF, ENERGY STAR

- 1 kt. Model 60.74.725 Combi-Duo Stacking Kit for iCombi 6-full size (electric or gas) on iCombi 6- or 10-full size (electric only)
- 1 ea. Model 60.31.204 Stand I for Combi-Duo, mobile, 7-3/4"H, all sides open, stainless steel construction, height adjustable casters, for iCombi 6-full size on 6-full size
- 1 ea. Model 87.00.732US Safety-Set, Equipment placement system for all casters-mounted equipment, allows precise, consistent equipment placement for drain lines to floor sinks and under the fire suppression in ventilation systems, satisfies NFPA codes 17A (5.6.4) and 96 (12.1.2.3), includes tow (2) pieces and installation pack.
- 1 ea. 2 years parts and labor, 5 years steam generator warranty
- 1 ea. Model CAP Chef Assistance Program, a RATIONAL certified Chef conducts 4 hours/location specialized application training with personnel, no charge. **THE FSEC SHALL PROVIDE A VIDEO OF THIS TRAINING ON SITE WITH THE CLOSEOUT DOCUMENTS.**
- 1 ea. Model 9999.2252 RCI RATIONAL Certified Installation. Provide documentation with closeout documents.
- 2 ea. Model 9999.1009 include all necessary travel.
- 1 ea. Model 8720.1552US Installation Kit, for electric iCombi (440/60Hz/3 & 480/60Hz/3)
- 2 ea. Model 56.01.535 Active Green Cleaner Tabs, for all iCombi Pro, 150 pieces/bucket
- 2 ea. Model 56.00.562 Care Tabs, bucket of 150 packets for all iCombi Pro models
- 1 ea. Model 60.75.768 Heat Shield, for right side panel, type 6-full size Pro, 2"W, stainless steel construction
- 6 ea. Model 60.12.156 Full Size Sheet Pan Adapter, allows for use of 18" x 24" full size sheet pans, combination of multiple adapters is possible for hinging racks only, (max. (3) for size 6-full and (5) for size 10-full)
- 6 ea. Model 6010.2101 Gastronorm Grid Shelf, 2/1 size, 25-5/8" x 20-7/8", stainless steel
- 6 ea. Model 6019.1150 CombiFry Basket, 1/1 GN, 12-3/4" x 20-7/8"
- 2 ea. Model 9999.9613 K-12 Extended Warranty: Extends the warranty for 12 months beyond the Original Equipment Warranty to 3 years parts and labor.

ITEM 34 - COMBI OVEN, ELECTRIC (1 REQ'D)
RATIONAL Model ICP 20-FULL E 480V 3 PH (LM100GE)

iCombi Pro 20-Full Size Combi Oven, electric, (20) 18" x 26" sheet pan or (40) 12" x 20" steam pan or (20) 2/1 GN pan capacity, mobile oven rack & (10) stainless steel grids included, intelligent cooking system with (4) assistants; automated climate management, integrated recipe intelligent cooking system, integrated a-la-carte production process manager, & integrated equipment cleaning system, (6) operating modes, (5) cooking methods, (3) manual operating modes, 85° to 572°F temperature range, quick clean, care control, eco mode, 6-point core temperature probe, retractable hand shower, Ethernet interface, Wi-Fi enabled, 480v/60Hz/3-ph, 81.7 amps, 67.9 kW, IPX5, UL, cULus, NSF, ENERGY STAR

- 1 ea. 2 years parts and labor, 5 years steam generator warranty
- 1 ea. Model 9999.9614 K-12 Extended Warranty: Extends the warranty for 12 months beyond the Original Equipment Warranty to 3 years parts and labor.
- 1 ea. Model CAP Chef Assistance Program, a RATIONAL certified Chef conducts 4 hours/location specialized application training with personnel, no charge. **THE FSEC SHALL PROVIDE A VIDEO OF THIS TRAINING ON SITE WITH THE CLOSEOUT DOCUMENTS.**
- 1 ea. Model 9999.2212 RCI RATIONAL Certified Installation. Provide documentation with closeout documents.
- 2 ea. Model 9999.1009 include all necessary travel.
- 1 ea. Model 8720.1561US Installation Kit, electric iCombi (480/60Hz/3ph)
- 2 ea. Model 56.01.535 Active Green Cleaner Tabs, for all iCombi Pro, 150 pieces/bucket
- 2 ea. Model 56.00.562 Care Tabs, bucket of 150 packets for all iCombi Pro models and SelfCooking Center with CareControl
- 1 ea. Model 60.22.447 Mobile Oven Rack, type 20-full size Pro/Classic, (20) 24" x 20" pan capacity, 2-1/2" spacing, reinforced HeavyDuty/Marine version
- 10 ea. Model 6010.2101 Gastronorm Grid Shelf, 2/1 size, 25-5/8" x 20-7/8", stainless steel
- 10 ea. Model 6019.1150 CombiFry Basket, 1/1 GN, 12-3/4" x 20-7/8"

ITEM 35 - COMBI OVEN WATER FILTRATION SYSTEM (2 REQ'D)
3M Purification Model DP295-CLX

3M Water Filtration System, 108,000 gallon capacity, reduces sediment, chloramine (3.0 gpm), chlorine taste and odor (10.0 gpm), and scale

- 2 ea. Model DP295-CLX CARTPAK 3M Water Filtration Cartridge Kit, 108,000 gallon capacity, reduces sediment, chloramine (3.0 gpm), chlorine taste and odor (10.0 gpm), and scale; kit includes (2) HF95-CLX cartridges and (1) HF8-S cartridge

ITEM 36 - IVARIO WATER FILTRATION SYSTEM (1 REQ'D)
3M Purification Model HF195-CLX

3M Water Filtration System, 54,000 gallon capacity, reduces sediment, chloramine (1.5 gpm), chlorine taste and odor (5.0 gpm)

- 1 ea. Model HF95-CLX 3M Water Filtration Cartridge, 54,000 gallon capacity, reduces sediment, chloramine (1.5 gpm), chlorine taste and odor (5.0 gpm), NSF certified

ITEM 37 - 72" X 8" FLOOR TROUGH (2 REQ'D)
IMC/Teddy Model FWR-72-SG

FWR Floor Water Receptacle, 72"W x 7-1/2"D, 4" deep receptacle, (1) 4" OD tailpiece, stainless steel beehive strainer, 16/304 stainless steel construction, brushed satin finish, (SG) subway grating, NSF, Made in USA

- 2 ea. Model DOD 3" OD Tube (each)

ITEM 38 – 24" X 18" ANTI-SPLASH FLOOR TROUGH (1 REQ'D)
IMC/Teddy Model ASFT-3024-SG

ASFT Anti-Spill Floor Trough, 24"W x 18"D, 6" deep receptacle, (1) 4" OD tailpiece, stainless steel beehive strainer, 14/304 stainless steel, brushed satin finish, (SG) subway grating, NSF, Made in USA

- 1 ea. Model DOD 3" OD Tube (each)
- 1 ea. Model BBS Basket Beehive Strainer

ITEM 39 - 207" X 48" ISLAND PREP TABLE (1 REQ'D)
Approved Fabricator

Worktable with dual-sided open-front cabinet base, 207"W x 48" front-to-back x 42"H, 36" work height. This counter shall be pre-wired by an electrical contractor.
Top: 14ga., Type-304 stainless steel top with Type-C Marine Edge, 1-1/2"D x 6"H Type-A backsplash, and Type-B framework with sound deadening pads between all support channels and the top. Include (6) duplex convenience outlets, Full 16 ga.
Base: 16ga., type-304 stainless steel open-front cabinet base with 2"W mullions and lower shelf with Type-B framework with sound deadening pads between all support channels and the lower shelf on 6"H legs with adjustable bullet feet. All intermediate shelves shall be adjustable. All drawers shall have soft-close, ball bearing slides and removable 18 ga., Type-304 Stainless Steel 5" deep drawer pans. To include pre-wired outlets. Refer to plans and elevations for specific sizing. Refer to fabrication details.

ITEM 39.1 – PRE-RINSE WITH ULTRARINSE ADD-ON FAUCET (2 REQ'D)
T&S Brass Model S-0133-U12-CR-BY

ULTRARINSE stainless steel, PRU with S-0107-Y & Cerama, 8" wall mount mixing faucet with stainless steel body, stainless steel add-on faucet, stainless steel 12" swing nozzle with stream regulator outlet, stainless steel 18" riser, 44" flexible stainless steel hose with heat resistant handle, stainless steel 1.5 GPM 10 7/16" multiple tip spray arm, stainless steel 1.15 GPM blue new spray valve, stainless steel ceramic cartridges with check valves, stainless steel lever handles, stainless steel 1/2" NPT female inlets, stainless steel 6" adjustable wall bracket, stainless steel spray valve holder and stainless steel overhead spring. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9 & NSF 372. 2019 DOE PRSV - Class II compliant.

2 kt. T&S Brass Model B-0230-K Installation Kit, (2) 1/2" NPT nipples, lock nuts & washers, (2) short "Ell" 1/2" NPT female x male

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 39.2 – MODULAR WASTE DRAIN VALVE (2 REQ'D)
T&S Brass Model B-3992-01-3X

Modular Waste Drain Valve, with pull handle, 3-1/2" sink opening, 2" NPT male / 1-1/2" female outlet, overflow tube with head assembly, 3" handle extension

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 40 – 106" X 30" COLD PREP TABLE WITH SINK (1 REQ'D)
Approved Fabricator

Worktable with prep sink, open-front cabinet base and drawers, 106"W x 30"front-to-back x 46"H, 36" work height.
Top: 14ga., type-304 stainless steel top with Type-C marine edge, 2"D x 10"H "Z"-clips" Type-A backsplash with (1) set of 8" O.C. faucet holes and (1) set of 6" O.C. vacuum breaker holes, and Type-B framework with sound deadening pads between all support channels and the top. Top Shall include a sink apron for (1) 18"W x 24" front-to-back x 12" deep with a 6" dia. Salvajor disposer outlet (fabricator installed)/ Splash mounted breaker for Salvajor MRSS-LD disposer control panel. Prevision on Type-C Marine Table Edge for table mounted manual can opener. All intermediate shelves shall be adjustable. All drawers shall have soft-close, ball bearing slides and removable 18 ga., Type-304 Stainless Steel 5" deep drawer pans. All doors shall have soft-closing hinges.
Base: 16ga. type-304 stainless steel 1-5/8" dia. legs with adjustable bullet feet and adjustable set-up. The base shall be removable from the top. Refer to plans and elevations for specific sizing. Refer to fabrication details.

ITEM 40.1 - MODULAR WASTE DRAIN VALVE (1 REQ'D)
T&S Brass Model B-3992-01-3X

Modular Waste Drain Valve, with pull handle, 3-1/2" sink opening, 2" NPT male / 1-1/2" female outlet, overflow tube with head assembly, 3" handle extension

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 41 - PRE-RINSE WITH ULTRARINSE ADD-ON FAUCET (1 REQ'D)
T&S Brass Model B-0133-U12-CR-B

UltraRinse 8" wall mount mixing faucet with polished chrome plated brass body, add-on faucet with cerama cartridge and lever handle, 12" swing nozzle with stream regulator outlet, 10" 1.5 GPM multiple tip spray arm, 18" riser, 44" flexible stainless steel hose with heat resistant handle, 1.15 GPM spray valve, compression cartridges with spring checks, lever handles, 1/2" NPT female inlets, 6" adjustable wall bracket, spray valve holder and overhead spring. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9 & NSF 372. 2019 DOE PRSV - Class II compliant.

ITEM 42 - ELECTRIC CAN OPENER (1 REQ'D)
Edlund Model 270/115V

Can Opener, electric, for heavy volume, 2-speed motor, knife and gear assemblies that are removable for cleaning, recommended for up to 200 cans per day, cULus, CE, NSF certified, 115v/60/1-ph, 1.5 amp
1 ea. 3 year limited warranty, standard

ITEM 42.1 - MANUAL CAN OPENER (1 REQ'D)
Edlund Model 1S

Can Opener, manual, with stainless steel base (for cans up to 11" tall)
1 ea. 1 year limited warranty, standard

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 43 - 2HP DISPOSER (1 REQ'D)
Salvajor Model 200-SA-6-MRSS-LD

Disposer, Sink Assembly, 6-1/2" sink collar, 2 Hp motor, start/stop push button manual reversing with safety line disconnect MRSS-LD control, includes fixed nozzle, chrome plated vacuum breaker, solenoid valve, sink stopper & flow control, heat treated aluminum alloy housing, UL, CE. 208v/60/3-ph, 6.6 amps
1 ea. Model 980104 Mounting bracket for RSS, MSS, MSS-LD, MRSS, MRSS-LD
1 ea. Model LSA8 Disposer support leg, for 3/4 HP - 2 HP disposers
1 ea. Model DP Stainless steel dejamming prong
1 ea. Model 980182 Disposer Throat Guard, drop-in, for 6-1/2" opening

ITEM 44 - 84" X 30" BAKERS WORKTABLE WITH DRAWERS (1 REQ'D)
John Boos Model BT3S03A

Baker's Table, 84"W x 30"D, 1-3/4" thick top with 4" coved riser on back & both ends, Northern Hard Rock Maple, with penetrating oil finish, open cabinet base with (3) drawers, stainless steel bracings, legs, & bullet feet, NSF, KD

ITEM 44.1 - BAKER'S SCALE (1 REQ'D)
Penn Scale Model 1401 P

Bakers Scale, 16 lb. capacity, 9" dia. steel plates, removable plastic white scoop (11-1/2" x 21-1/2"), counter-weight, polished brass 2 lb. beam in 1/4 oz. increments & 4 free weights (3 - 4 lb. & 1 - 2 lb.), solid cast iron with food grade powder coat finish, Made in USA

1 ea. White finish

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 45 - 36" X 21" DUNNAGE RACK (1 REQ'D)
Cambro Model DRS360480

S-Series Dunnage Rack, slotted top, 1500 lb. load capacity, 21"D x 36"W x 12"H, polypropylene, one-piece, seamless double wall construction, includes (1) Camlink, 4" square legs, speckled gray, NSF, Made in USA

ITEM 46 - 24" X 16" WALL SHELF WITH UTENSIL RACK (1 REQ'D)
John Boos Model MENSL24-P

Cucina Mensola Shelf, wall-mount, 18/300 stainless steel, 24"W x 12"D, polished welded joints, stainless steel utensil bar & (3) stainless steel hooks

ITEM 47 - 60 QT. MIXER (1 REQ'D)
Hobart Model HL600-2STD

380-460/50/60/3 Mixer; with bowl, beater, “D” whip, & spiral dough arm; US/EXP configuration - Legacy Planetary (Floor) Mixer, 2.7 HP, 60 quart capacity, (4) fixed speeds, gear-driven transmission, 20-Minute SmartTimer, #12 taper attachment hub, power bowl lift, stainless steel bowl, "B" beater, "D" wire whip, "ED" dough hook, stainless steel bowl guard

1 ea. Standard warranty: 1-Year parts, labor & travel time during normal working hours within the USA
1 ea. Model BBEATER-HL60 Legacy Mixer 60 qt. "B" flat beater, aluminum
1 ea. Model DWHIP-HL60 Legacy Mixer 60 quart "D" wire whip, stainless steel
1 ea. Model EDDOUGH-HL60 Legacy Mixer 60 qt. "ED" dough hook
1 ea. Model CHUTE-HL HL600/HL662 Ingredient Chute

ITEM 48 - WATER METER (1 REQ'D)
Empire Bakery Equipment Model DOX-30

Water Meter, water dosing only, 265 gallon dosing capacity, microprocessor logic with memory for last selection, keypad control, digital display, chromium-plated hydraulics, double stainless steel net filter, in-line output counter, dosing electrovalve, no-return valves, control box in 4mm thick PVC and stainless steel, 230-110v/50/60/1-ph

ITEM 48.1 – WATER FILTER (1 REQ'D)
3M Purification Model ICE120-S

3M Water Filtration Products Water Filter System, with gauge, 17"H x 4.5"D, valve-in-head, standard water, single vessel, 1/4-turn shut off valve, max pressure of 125 psi at 100°F, 0.5 micron, 1.5 gpm flow rate, 9,000 gallons capacity, for sediment, chlorine taste & odor, cyst, scale, includes: (1) integral mounting bracket and (1) o-ring seal cartridge filter, 3/8" FNPT connections, NSF certified.

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 49 - 36" X 18" WALL GRID SHELVING UNIT (2 REQ'D)
Cambro Model EWS36PREP110

Wall Shelving Prep Station Starter Kit, 18" x 36" x 30-1/4", includes: (1) 40" aluminum wall track, (2) 30" wall uprights, (2) 18" deep universal shelf brackets, (1) 18" x 36" vented shelf with antimicrobial shelf plates, (1) 18" x 36" hanging pegboard, 304 stainless steel accessories: (2) large wire baskets, (1) small shelf/lid holder, (1) cylinder and holder & (8) peg hooks, black, NSF, Made in USA

ITEM 50 - HAND SINK WITH KNEE APRON (4 REQ'D)
John Boos Model PBHS-W-1410-KV1APS-SS

Hand Sink, wall mount, 14"W x 10"D front-to-back x 5" deep bowl, 3-1/2"H splash mount gooseneck faucet, knee activated with hinged front apron, left & right side splashes, 2" drain opening with basket drain, includes: mounting bracket, stainless steel construction, NSF

ITEM 51 - TRASH RECEPTACLE, INDOOR (LOT BY OWNER)
By Owner

ITEM 52 - HAND SINK WITH EYE WASH (1 REQ'D)
John Boos Model PBHS-W-1410-KV1APS-EW-SS

Hand Sink with Eye Wash, wall mount, 14"W x 10"D front-to-back x 5" deep bowl, 3-1/2" gooseneck faucet with eye wash attachment, knee activated with hinged front apron, left & right side splashes, 2" drain opening with basket drain, includes: mounting bracket, stainless steel construction, NSF

ITEM 53 - COMMERCIAL WASTE CONTAINER (LOT BY OWNER)
By Owner

ITEM 54 - ROLL-IN HEATED CABINET (1 REQ'D)
Victory Refrigeration Model HIS-1D-1-PT-XH

Heated Cabinet, Powered by V-Core, Roll-thru, one-section, 38.1 cu. ft. capacity, stainless exterior & interior, standard depth cabinet, full extra high doors, TOUCH POINT electronic temperature control/indicator, stainless steel ramp, UL, UL EPH Classified, 208-240v/60/1-ph, 6.3 amps, includes cord & plug

1 ea. 7 year parts & labor and 7 year compressor warranty
1 ea. Rear/Server side door hinging: on left on rear at factory
1 ea. Control/Kitchen side door hinging: standard on right
1 ea. Control/Kitchen side: Standard Glass door in lieu of standard solid door, one-section
1 ea. Rear/Server side: Standard Glass door in lieu of standard solid door, one-section

ITEM 55 - BUN PAN MOBILE RACK (4 REQ'D)
Channel Model 402S

Bun Pan Rack, All-Welded, Stainless Series, 20.5"W x 26"D x 70.25"H, Stainless Steel Construction, End Load, 4" Angle Spacing, (15) 18" x 26" or (30) 13" x 18" pans (2 per shelf), 5" Swivel Stem Casters model # CSS45PU, Made in USA, NSF, 47lbs. (ITEM WEIGHT ONLY), weight does not include 50 lbs. for pallet weight

ITEM 56 - ROLL-IN REFRIGERATOR (1 REQ'D)
Victory Refrigeration Model RIS-2D-S1-XH-HC-FLEX

Extra High Refrigerator, Roll-In, two-section, self-contained refrigeration, 77.35 cu. ft. capacity, stainless steel exterior & interior, standard depth cabinet, (2) extra high 20 gauge stainless steel doors, electronic temperature control/indicator, LED lighting, expansion valve technology, Santoprene door gaskets with 2 year warranty, stainless steel breakers, stainless steel ramp, 3/4 HP, cULus, UL-Sanitation, UL EPH Classified, 115v/60/1-ph, 8.5 amps, cord with NEMA 5-15P

1 ea. 7 year parts & labor and 7 year compressor warranty (excludes maintenance items)
1 ea. FlexTemp Control Option (28° - 38°F), capable of set points between 28° to 38°F with positive defrost cycles
1 ea. Door hinging: left door hinged on left, right door hinged on right standard
1 ea. Standard Glass door in lieu of standard solid door, two-section

ITEM 57 - ROLL-IN HEATED CABINET (1 REQ'D)
Victory Refrigeration Model HIS-1D-1-XH

Heated Cabinet, Roll-in, one-section, 33.6 cu. ft. capacity, stainless exterior & interior, standard depth cabinet, full extra high door, electronic temperature control/indicator, stainless steel ramp, UL, UL EPH Classified

1 ea. 7 year parts & labor and 7 year compressor warranty (excludes maintenance items)
1 ea. 208-240v/60/1-ph, 6.3 amps, includes cord & plug
1 ea. Door hinging: on left at factory

1 ea. Standard Glass door in lieu of standard solid door, one-section

ITEM 58 - TRAY STAND CART (2 REQ'D)
Duke Manufacturing Model TTS-32SS

Tray Stand Unit, mobile, 32"W x 31"D x 42"H, 16 gauge stainless steel top, tray surface 19" high, 16 gauge stainless steel utensil tower 28" x 10", 20 gauge stainless steel body & undershelf, 5" dia. gray poly swivel casters & brakes, NSF

2 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
2 ea. Model P-LAM Veneer plastic laminate on body
2 ea. Model MOD-2P Veneer on customer's side
4 ea. Model MOD-P-END Veneer on end, each
2 ea. Model MOD-2S-2CU Kick Plate, customer's side, stainless steel, recessed, screw attached
4 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached
2 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 59 - 74" REFRIGERATED DISPLAY CASE WITH MILK CRATE HOLDER (2 REQ'D)
Structural Concepts Model MD685R

Fusion Self-Service Refrigerated Display Case, 74-1/4"W x 37-1/8"D x 85-1/2"H, open reach-in front, LED top & shelf lights, self-contained refrigeration, stainless steel rear exterior, powder coated silversan black, ETL-Sanitation

2 ea. Warranty: 1 year parts & labor warranty, standard
2 ea. Exterior Color: Laminate PLAM-1
2 ea. Model GRAIN DIRECTION Standard laminate grain directions (when applicable):
- Front Panels (Upper Header and Lower Panels): Horizontal grain direction - End Panels: Vertical grain direction - Blend & Reveal Cases Only: Horizontal grain direction on front and end panels
2 ea. Interior Color: Stainless steel
2 ea. Lower Front Panel Color: Powder coated SCC Standard Silversan Black (FDA compliant), standard
2 ea. Base Support: Casters (self-cont.), standard
2 ea. Bumper Front: 1" Boston bumper - Black, standard
2 ea. Bumper Left End: None, standard
2 ea. Bumper Right End: None, standard
2 ea. End Panel Left: Full end panel, standard
2 ea. End Panel Right: Full end panel, standard
2 ea. Flat header (*Standard flat configuration)
2 ea. Price Tag Molding: None, standard
2 ea. Rear Doors: None (solid back panel), standard
2 ea. Shelving: (5) Lighted solid shelves, standard
2 ea. Lights: LED 3500K with frost lens, standard
2 ea. Electrical Connection: 6' NEMA 6-30P, 208-240v/60/1-ph straight blade power cord, standard
2 ea. Refrigeration: Breeze self-contained refrigeration, standard
2 ea. Thermometer: Digital Fahrenheit thermometer, standard
2 ea. Vinyl Graphics: None, standard
2 ea. Night curtain, retractable, non-locking
2 ea. Stainless steel milk crate drip pans

ITEM 60 - 60" 4-WELL HOT FOOD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TWHF-60SS

Ganged Waterless Well, mobile, electric, 60"W x 32"D x 36"H, 16ga stainless steel top, (4) stainless steel heat wells, touch screen controls, stainless steel body & undershelf, dish shelf, 5" dia. swivel casters with brakes, 6' cord & plug, cULus, UL EPH Classified

- 1 ea. Model TWHF60-208 208v/60/1-ph, 2000 watts, 9.6 amps
- 1 ea. Model MOD-14-4 14ga stainless steel top, in lieu of standard
- 1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-4P Veneer on customer's side
- 1 ea. Model MOD-P-END Veneer on end, each
- 1 ea. Model SOLID-HD-4CU Tray Slide, customer's side, 60" W x 12-1/4" D, solid stainless steel, on hinged brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
- 1 ea. Model CORD-HOOK J-hook electric cord holder
- 1 ea. Model MOD-HT Special Height Body, per unit
- 1 ea. Model MOD-HT-34 34" Height Body
- 1 ea. Model MOD-2S-4CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 1 ea. Model E-OP2 Electric outlet, mounted in base, with galvanized junction box, duplex or single receptacle & stainless steel cover, wired to existing power source
- 1 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View B/QF203)
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 61 - 60" SNEEZE GUARD (2 REQ'D)
Premier Metal & Glass Model TM2N-A

Adjustable Dual-Service Sneeze Guard, single sided guard with top shelf, tempered glass with polished edges, adjustable end panels, table mount, 1" OD round stainless support posts, NSF & cULus Listed

- 2 ea. Specify Length: 60"
- 2 ea. 3/8" Glass, max 60" span
- 2 ea. Both end panels, standard
- 2 ea. Ultra-Slim LED display light 4000k (Std.),

ITEM 62 - 32" 2-WELL COLD FOOD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TCM-32SS-N7

Cold Food Unit, mobile, 32"W x 32"D x 36"H, 16ga stainless steel top, NSF 7 stainless steel mechanical cold pan, 8" deep, touchscreen control, 28-1/2" x 21-3/4" liner, 1" drain line & valve, hinged stainless steel louvered grill, stainless steel body & undershelf, 5" dia. swivel casters & brakes, 120v/60/1-ph, 5.2 amps, NEMA 5-15, cULus, UL EPH Classified

- 1 ea. Model COND-EVAP Condensate evaporator
- 1 ea. Model FB-2 False Bottom for Cold Pan Unit, 1/2" deep, sectional, stainless steel, for unit with (2) full size pan openings
- 1 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
- 1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-2P Veneer on customer's side
- 1 ea. Model SOLID-HD-2CU Tray Slide, customer's side, 32" W x 12-1/4" D, solid stainless steel, on hinged brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high (specify any special height)
- 1 ea. Model L-SOLID "L" shape solid trayslide mitered joint
- 1 ea. Model CORD-HOOK J-hook electric cord holder
- 1 ea. Model MOD-2S-2CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 1 ea. Model CORD 6 ft. cord & plug
- 1 ea. Model E-OP2 Electric outlet, mounted in base, with galvanized junction box, duplex or single receptacle & stainless steel cover, wired to existing power source
- 2 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View B/QF203)
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 63 - 32" SNEEZE GUARD (2 REQ'D)
Premier Metal & Glass Model TM2N-A

Adjustable Dual-Service Sneeze Guard, single sided guard with top shelf, tempered glass with polished edges, adjustable end panels, table mount, 1" OD round stainless support posts, NSF & cULus Listed

2 ea. Specify Length: 32"
2 ea. 3/8" Glass, max 60" span
2 ea. Both end panels, standard
2 ea. Ultra-Slim LED display light 4000k (Std.),

ITEM 64 - 74" 5-WELL SALAD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TFCP-74SS-N7

Flush Mount Cold Pan Unit, mobile, 74"W x 32"D x 36"H, 16ga stainless steel top, (5) pan size, digital control, self-contained refrigeration, drain for each well manifolded to one location, hinged stainless steel louvered grill, stainless steel body & undershelf, 5" dia. swivel casters with brakes, 10' cord & plug, 120v/60/1-ph, R290, NEMA 5-15, 6.8 amps, CULus, UL EPH Classified

1 ea. Model COND-EVAP Condensate evaporator
1 ea. Model FB-5 False Bottom, 1/2" deep, sectional, stainless steel, for unit with (5) full size pan opening
1 ea. Model 1127-2035 Asy Drain Manifold, 5 section
1 ea. Model MOD-14-5 14ga stainless steel top, in lieu of standard
1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
1 ea. Model P-LAM Veneer plastic laminate on body
1 ea. Model MOD-5P Veneer on customer's side
1 ea. Model MOD-P-END Veneer on end, each
1 ea. Model SOLID-HD-5CU Tray Slide, customer's side, 74" W x 12-1/4" D, solid stainless steel, on hinged brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high (specify any special height)
1 ea. Model CORD-HOOK J-hook electric cord holder
1 ea. Model MOD-2S-5CU Kick Plate, customer's side, stainless steel, recessed, screw attached
1 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached, 1/2" above floor for easy rolling
1 ea. Model CORD 6 ft. cord & plug
1 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View E/QF203)
1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 65 - 74" SNEEZE GUARD (2 REQ'D)
Premier Metal & Glass Model TM2N-A

Adjustable Dual-Service Sneeze Guard, single sided guard with top shelf, tempered glass with polished edges, adjustable end panels, table mount, 1" OD round stainless support posts, NSF & cULus Listed

2 ea. Specify Length: 74"
2 ea. 3/8" Glass, max 60" span
2 ea. Both end panels, standard
2 ea. Ultra-Slim LED display light 4000k (Std.)

ITEM 66 - 60" 4-WELL HOT FOOD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TWHF-60SS

Ganged Waterless Well, mobile, electric, 60"W x 32"D x 36"H, 16ga stainless steel top, (4) stainless steel heat wells, touch screen controls, stainless steel body & undershelf, dish shelf, 5" dia. swivel casters with brakes, 6' cord & plug, cULus, UL EPH Classified

- 1 ea. Model TWHF60-208 208v/60/1-ph, 2000 watts, 9.6 amps
- 1 ea. Model MOD-14-4 14ga stainless steel top, in lieu of standard
- 1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-4P Veneer on customer's side
- 1 ea. Model MOD-P-END Veneer on end, each
- 1 ea. Model SOLID-FX-4CU Tray Slide, customer's side, 60" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
- 1 ea. Model CORD-HOOK J-hook electric cord holder
- 1 ea. Model MOD-HT Special Height Body, per unit
- 1 ea. Model MOD-HT-34 34" Height Body
- 1 ea. Model MOD-2S-4CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 1 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached
- 1 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View F/QF202)
- 1 ea. Model E-OP2 Electric outlet, mounted in base, with galvanized junction box, duplex or single receptacle & stainless steel cover, wired to existing power source
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 67 - 32" 2-WELL COLD FOOD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TCM-32SS-N7

Cold Food Unit, mobile, 32"W x 32"D x 36"H, 16ga stainless steel top, NSF 7 stainless steel mechanical cold pan, 8" deep, touchscreen control (for optional mechanical control, see configuration options), 28-1/2" x 21-3/4" liner, 1" drain line & valve, hinged stainless steel louvered grill, stainless steel body & undershelf, 5" dia. swivel casters & brakes, 120v/60/1-ph, 5.2 amps, NEMA 5-15, cULus, UL EPH Classified

- 1 ea. Model COND-EVAP Condensate evaporator
- 1 ea. Model FB-2 False Bottom for Cold Pan Unit, 1/2" deep, sectional, stainless steel, for unit with (2) full size pan openings
- 1 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
- 1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-2P Veneer on customer's side
- 1 ea. Model SOLID-FX-4CU Tray Slide, customer's side, 60" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
- 1 ea. Model L-SOLID "L" shape solid trayslide mitered joint
- 1 ea. Model CORD-HOOK J-hook electric cord holder
- 1 ea. Model MOD-2S-2CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 1 ea. Model CORD 6 ft. cord & plug
- 1 ea. Model E-OP2 Electric outlet, mounted in base, with galvanized junction box, duplex or single receptacle & stainless steel cover, wired to existing power source
- 2 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View F/QF202)
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 68 - 74" 5-WELL SALAD SERVING COUNTER (1 REQ'D)
Duke Manufacturing Model TFCP-74SS-N7

Flush Mount Cold Pan Unit, mobile, 74"W x 32"D x 36"H, 16ga stainless steel top, (5) pan size, digital control, self-contained refrigeration, drain for each well manifolded to one location, hinged stainless steel louvered grill, stainless steel body & undershelf, 5" dia. swivel casters with brakes, 10' cord & plug, 120v/60/1-ph, R290, NEMA 5-15, 6.8 amps, CULus, UL EPH Classified

- 1 ea. Model COND-EVAP Condensate evaporator
- 1 ea. Model FB-5 False Bottom, 1/2" deep, sectional, stainless steel, for unit with (5) full size pan opening
- 1 ea. Model 1127-2035 Asy Drain Manifold, 5 section
- 1 ea. Model MOD-14-5 14ga stainless steel top, in lieu of standard
- 1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-5P Veneer on customer's side
- 1 ea. Model MOD-P-END Veneer on end, each
- 1 ea. Model SOLID-FX-5CU Tray Slide, customer's side, 74" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
- 1 ea. Model CORD-HOOK J-hook electric cord holder
- 1 ea. Model MOD-2S-5CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 1 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached
- 1 ea. Model CORD 6 ft. cord & plug
- 1 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View B/QF202)
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 69 - MERCHANDISING DISPLAY RACK (2 REQ'D)
Cambro Model CPM244867FX1480

Premium Mobile Flex Station Unit, 24"W x 48"L x 67"H, 4-tiers: (4) open shelves with divider bars for holding food pans, includes; (2) pre-assembled 24" x 67" mobile post kits (posts constructed of steel with polypropylene exterior), (8) 48" traverses, (36) angled divider bars, (12) identification tags, and (4) swivel total locking casters, speckled gray, 900 lbs. max capacity, Made in USA

- 2 ea. Lifetime warranty against corrosion and rust
- 2 ea. Model CSFLEXMERCH2000 Flex Station Merchandiser Signs, "Pick Up & Go", includes: (2) side panels, and (1) top/header/panel, fits 24" deep units only (does not include accessories or shelving unit), Made in USA

ITEM 70-71 - SPARE NO.

ITEM 72 - CASH REGISTER STAND (2 REQ'D)
Duke Manufacturing Model TCS-30SS

Cashier Stand, mobile, 30"W, 32"D, 36"H, 16ga stainless top, 20ga stainless steel body & partial undershelf, stainless steel tube foot rest, 5" dia. gray poly swivel casters & brakes, NSF

2 ea. Model CS-DR-LK Stainless steel drawer, with lock and keys, for cashier stand
2 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
2 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
2 ea. Model P-LAM Veneer plastic laminate on body
2 ea. Model MOD-2P-CL Veneer on cashier's left
2 ea. Model MOD-2P-CR Veneer on cashier's right
2 ea. Model MOD-2P-OC Veneer opposite the cashier
2 ea. Model SOLID-FX-32CL Tray Slide, cashier's left, 32" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
2 ea. Model SOLID-FX-32CR Tray Slide, cashier's right, 32" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
2 ea. Model CORD 6 ft. cord & plug
2 ea. Model CORD-HOOK J-hook electric cord holder
2 ea. Model E-OP2 Electric outlet, mounted in base, with galvanized junction box, duplex or single receptacle & stainless steel cover, wired to existing power source
2 ea. Model CUT-OP1-G Round cutout with grommet, in counter top (Ref. View F/QF204)
2 ea. Model MOD-HT Special Height Body, per unit
2 ea. Model MOD-HT-30 30" Height Body (elementary)
2 ea. Model MOD-32 For special width body…per unit 28" W
2 ea. Model MOD-2S-2CL Kick Plate, cashier's left, stainless steel, recessed, screw attached
2 ea. Model MOD-2S-2CR Kick Plate, cashier's right, stainless steel, recessed, screw attached
2 ea. Model MOD-2S-2OC Kick Plate, opposite cashier, stainless steel, recessed, screw attached
2 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 73 - POS SYSTEM (2 BY VENDOR)
Point-of-Sale System - By Vendor

ITEM 74 - 46" CONDIEMENT COUNTER (1 REQ'D)
Duke Manufacturing Model TST-46SS

Solid Top Unit, mobile utility counter, 46"W x 32"D x 36"H, 16ga stainless steel top, 20ga stainless steel body & undershelves, 5" dia. gray poly swivel casters & brakes, NSF

1 ea. Model MOD-14-3 14ga stainless steel top, in lieu of standard
1 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
1 ea. Model P-LAM Veneer plastic laminate on body
1 ea. Model MOD-3P Veneer on customer's side
2 ea. Model MOD-P-END Veneer on end, each
1 ea. Model MOD-3P-D Veneer on door
1 ea. Model SOLID-FX-3CU Tray Slide, customer's side, 46" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
1 ea. Model SOLID-FX-3OP Tray Slide, operator's side, 46" W x 12-1/4" D, solid stainless steel, on fixed brackets, with (2) 1/8" die-formed rubbing tracks, & mounted 34" high
1 ea. Model 329-3SS Sliding doors, no lock, stainless steel, recessed stainless steel pull
1 ea. Model MOD-2S-3CU Kick Plate, customer's side, stainless steel, recessed, screw attached
1 ea. Model MOD-2S-3OP Kick Plate, operator's side, stainless steel, recessed, screw attached
1 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached
1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 75 - 60" X 30" WORK CABINET WITH SLIDING DOORS (1 REQ'D)
John Boos Model 4CS4R5-2430

Work Table, cabinet base with sliding doors, 60"W x 30"D, 14/300 stainless steel top with 5" backsplash, Stallion Safety Edge front, 18/430 stainless steel body, stainless steel legs with adjustable feet, NSF

- 1 ea. Model X-0002J1 2" deep 5"H rear riser, with turndown & "Z" clips, in lieu of standard
- 1 ea. Model X-0213S Standard Marine Edge
- 5 ft. Model SD-1PD Sound Deadening Pads, placed one foot on center, 10" x 3-1/2" x 1/16" (per linear foot)
- 5 ft. Model X-0022JC Upgrade standard 18/430 cabinet lower shelf to 16/300 series stainless steel (per linear foot)
- 1 ea. Model X-0204A Mullion - Interior Portion Panel (modification)
- 8 ft. Model X-0205I Removable kick plate (per linear foot) (modification)
- 3 ea. Model DR1520SCL-S24 Drawer, for 24"D work tables, 20"W x 15" front-to-back x 5" deep, stainless steel front and drawer pan, self closing and locking, roller bearing slides, NSF, for stainless steel table tops only

ITEM 76 - 45 DEGREE CORNER MOBILE UTILITY COUNTER (2 REQ'D)
Duke Manufacturing Model TTU-45SS

Triangle Unit, 45° corner, must attach to an adjacent unit, 32" triangle, 36"H, 16ga stainless steel top, 20ga stainless steel enclosed body, 5" dia. gray poly swivel casters & brakes, NSF **Shape per plan view**

- 2 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
- 2 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
- 2 ea. Model MOD-HT Special Height Body, per unit
- 2 ea. Model MOD-2S-2CU Kick Plate, customer's side, stainless steel, recessed, screw attached
- 2 ea. Model CUT-OP1-G Round cutout with grommet, in body panel (Ref. View B/QF202&QF203)
- 2 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 77 - SPARE NO.

ITEM 78B - 60" HEATED COUNTERTOP DISPLAY MERCHANDISER (1 REQ'D ALT 9B ~~8~~)
Hatco Model GR2SDH-60D

Horizontal Display Warmer, countertop, (2) shelves (24) rods, thermostat, pre-focused infrared top heat, incandescent light, hardcoat aluminum base, tempered glass end panels, designer panels & corner caps, 4" legs, 4420 watts, cULus, UL EPH Classified, Made in USA. 120/208v/60/1-ph, 4420 watts, 18.4 amps, NEMA L14-30P, standard

- 1 ea. 1 year on-site parts & labor warranty, plus one additional year parts only warranty on all Glo-Ray metal sheathed elements
- 1 ea. Model BLACK Black, designer housing color
- 1 ea. Model COPPER Antique Copper, designer inset panel color (available at time of purchase only)
- 1 ea. Model BLACK Black, designer corner cap color (available at time of purchase only)
- 1 ea. Model GR2SD60BP 5" Sneeze guard on front upper shelf for 66-1/4" models
- 1 ea. Model GR2SD60BP 5" Sneeze guard on front lower shelf for 66-1/4" models
- 6 ea. Model 2SD-DIV Additional stainless steel divider rods

ITEM 79B - SERVING COUNTER, UTILITY (1 REQ'D ALT 9B ~~8~~)
Duke Manufacturing Model TTU-90SS

Triangle Unit, 90° corner, mobile, 32" triangle, 36"H, 16ga stainless steel top, 20ga stainless steel enclosed body, 5" dia. gray poly swivel casters & brakes, NSF **Shape per plan view**

- 1 ea. Model MOD-14-2 14ga stainless steel top, in lieu of standard
- 1 ea. Model P-LAM Veneer plastic laminate on body
- 1 ea. Model MOD-2P Veneer on customer's side
- 1 ea. Model MOD-P-END Veneer on end, each
- 1 ea. Model MOD-HT Special Height Body, per unit
- 1 ea. Model CUT-OP1-G Round cutout with grommet, in counter top (Ref. View F/QF202)
- 1 ea. Model MOD-2S-2CU Kick Plate, customer's side, stainless steel, recessed
- 1 ea. Model MOD-2S-E Kick Plate, end, stainless steel, recessed, screw attached
- 1 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 80B -74" MOBILE UTILITY COUNTER (2 REQ'D ALT 9B ~~8~~)
Duke Manufacturing Model TST-74SS

Solid Top Unit, mobile utility counter, 74"W x 32"D x 36"H, 16ga stainless steel top, 20ga stainless steel body & undershelves, 5" dia. gray poly swivel casters & brakes, NSF

2 ea. Model MOD-14-5 14ga stainless steel top, in lieu of standard
2 ea. Model ILD Internal Locking Device (on both ends), stainless steel pin & latch line up device under countertop
2 ea. Model P-LAM Veneer plastic laminate on body
2 ea. Model MOD-5P Veneer on customer's side
4 ea. Model MOD-P-END Veneer on end, each
2 ea. Model MOD-2S-5CU Kick Plate, customer's side, stainless steel, recessed, screw attached
4 ea. Model CUT-OP1-G Round cutout with grommet, (2) body panel, (1) countertop, & (1) shelf (Ref. View E&F/QF202)
2 ea. Model K12-WARR K-12 School Warranty - (2) years parts and labor

ITEM 81B -161" X 30" CAFE COUNTER WITH DUMP SINK (1 REQ'D ALT 9B ~~8~~)
Approved Fabricator

Café Counter closed front cabinet base, 161"W x 30" front-to-back x 42"H, 36" work height.
Top: 14ga., type-304 stainless steel top with Type-A safety edge, 1-1/2"D x 6"H "Z"-clips" Type-B backsplash, and Type-B framework with sound deadening pads between all support channels and the top. Mitered corners. Top Shall include (1) 18"W x 18" front-to-back x 12" deep with overflow hole café sink. (1) Set of deck mounted faucet holes 4" O.C. (2) Deck mounted single faucet hole.
Base: 16ga., type-304 stainless steel *open-front/hinged-door/sliding-door*cabinet base with 2"W mullions and lower shelf with Type-B framework with sound deadening pads between all support channels and the lower shelf on 6"H legs with adjustable bullet feet. All intermediate shelves shall be adjustable. All doors shall have soft-close hinges. Removeable 16 ga., Type-304 Stainless Steel Toe Kicks. Refer to plans and elevations for specific sizing. Refer to fabrication details.

ITEM 81.1B - DECK MOUNT FAUCET (1 REQ'D ALT 9B ~~8~~)
T&S Brass Model B-0325-CR

Mixing Faucet, deck mount, 4" adjustable centers, 5-3/4" swivel gooseneck spout with Series 1 stream regulator outlet (includes lock washer to convert to rigid), lever handles with color-coded indexes, quarter-turn ceramic cartridges with check valves, polished chrome-plated brass body & tubular spout, 1/2" NPT female inlets, low lead, cCSAus, ADA Compliant

1 kt. Model B-0425-KIT Inlet Kit with 24" supply hoses, Nipples, Washer and Locknuts that provide 1/2" NPT male outlet and 3/8" female compression inlet. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9 and NSF 372.

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 81.2B - GLASS FILLER (1 REQ'D ALT 9B ~~8~~)
T&S Brass Model B-1210

Glass Filler Faucet, 8" deck mount pedestal, 1/2" NPT male shank

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 81.3B - DECK MOUNT FAUCET (1 REQ'D ALT 9B ~~8~~)
T&S Brass Model B-1110-CR

Faucet Workboard, swivel, deck mount, 6" long, standard, 4" centers, lever handles, ceramic cartridges, check valves, vandal resistant, 2.2 GPM aerator, includes: lock washer (014200-45), low-lead, polished chrome, 1/2" male NPT, ADA Compliant, ANSI, NSF

1 kt. Model B-0230-KIT Inlet Kit, 1/2" NPT nipple, close elbows, 24" flex supply hoses

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 81.4B - PANTRY FAUCET (1 REQ'D ALT 9B ~~8~~)
T&S Brass Model B-0205-060X-CR

Single Pantry Faucet, deck mount, single hole base, 8" swivel spout with stream regulator, lever handle, ceramic cartridge, 1/2" NPSM male inlet, low lead, ADA Compliant

1 kt. Model B-0230-KIT Inlet Kit, 1/2" NPT nipple, close elbows, 24" flex supply hoses

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 81.5A - BLENDER CONTAINER RINSER PARTS (1 REQ'D ALT 9A)
AllPoints Foodservice Parts & Supplies Model VIT1442

Rinse-O-Matic

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 82A - DISPENSER WATER FILTER SYSTEM (1 REQ'D ALT 9A)
3M Purification Model BEV120-I

High Flow Series System for Cold Beverage Applications, for single high flow carbonator dispensers used in cold beverage applications, 1.67 gpm, 14000 gallons capacity, reduces particulates, chlorine taste & odor, cysts, and bacteria, Integrated Membrane Pre-Activated Carbon Technology filtration, sanitary quick change (SQC) cartridge, NSF certified

1 ea. Model HF20-I Water Filtration Products Replacement Cartridge, standard length, 0.2 micron, 1.67 gpm flow rate, 14,000 gallons capacity, reduces sediment, chlorine taste & odor, cyst, scale inhibitor for BEV120, NSF certified

ITEM 83A - COFFEE GRINDER (1 REQ'D ALT 9A)
BUNN Model 35600.0020

35600.0020 MHG, SST Multi-Hopper Grinder & Storage System, front loading dual 6 lbs. removable hopper, portion control, 3 batch sizes per hopper, racks & LCD alphanumeric display, precision burrs, locking lid (lock sold separately), stainless steel, tall model accommodates large brew funnels, 3/4 HP, 120v/60/1-ph, 11 amps, NEMA 5-15P, cord attached, UL, ETL

ITEM 84A - COFFEE TEA BREWER (1 REQ'D ALT 9A)
BUNN Model 52200.0000

52200.0000 ITCB-DV Tea/Coffee Brewer with Tray, display label overlay kit, dual voltage adaptable, Infusion Series technology: (3) brew buttons & (2) batch sizes, BrewWISE intelligence with pre-infusion & pulse brew, energy-saver mode, brew counter, includes integrated (3) position flip tray, overlay kit for customization, 29" trunk, operates at 120v, 120/208v, 120-240v; 1.7kW, 2.65kW, 3.5kW, standard, NSF, UL

2 ea. Model 44050.0200 44050.0200 Server with Mechanical Sight Gauge, with base & drip tray, 1-1/2 gallon, lever action dispensing, brew-through lid, portable, soft-grip bail handle, fast flow faucet, aluminum faucet guard, vacuum insulated, stainless steel liner, black finish, for use with twin or single Infusion Series brewers, NSF

ITEM 85A - WATER FILTRATION SYSTEM, FOR ICE MACHINES (1 REQ'D ALT 9A)
3M Purification Model ICE160-S

3M Water Filtration Products Water Filter System, with shut-off valve & gauge, 17-5/8"H x 5"D, standard water, single vessel, max pressure of 125 psi at 100°F, 0.2 micron, 3.34 gpm flow rate, 35,000 gallons capacity, for cyst, bacteria, sediment, chlorine taste and odor, scale, includes: (1) integral mounting bracket and (1) o-ring seal cartridge filter, 1/2" FNPT connections, NSF certified (for ice machines - cubers up to 1450lbs)

1 ea. Model HF60-S 3M Water Filtration Products Replacement Cartridge, large diameter, 0.2 micron, 3.34 gpm flow rate, 35,000 gallons capacity, reduces bacteria, sediment, chlorine taste & odor, cyst, scale inhibitor, NSF certified

ITEM 86A - CAFE BAR BLENDER (2 REQ'D ALT 9A)
Hamilton Beach Model HBH855

High Performance Blender, 3.5 HP motor, 48 oz. capacity, stackable polycarbonate container, built-in sensors, variable speeds and pulse, Quiet Shield, USB port, stainless steel blades, 120v/60/1-ph, cULus, NSF

2 ea. 3 year parts & labor warranty
2 ea. Lifetime blade warranty
2 ea. Model 6126-851 Frothing Container, 48 oz., laser-etched measurements, mess-free spout, removable filler-cap, stackable, BPA free copolyester, ergonomic handle, stainless steel frothing disc, clear
2 ea. Model 6126-855 Edge Blender Container, 48 oz., laser-etched measurements, with lid, stackable, BPA free copolyester, clear

ITEM 87A - UNDERCOUNTER ICE CUBER WITH BIN (1 REQ'D ALT 9A)
Scotsman Model CU3030SA-1

Undercounter Ice Maker With Bin, cube style, air-cooled, 30" width, self-contained condenser, production capacity up to 313 lb/24 hours at 70°/50° (224 lb AHRI certified at 90°/70°), 110 lb bin storage capacity, small cube size, AutoAlert indicator lights, WaterSense adaptive purge control, unit specific QR code, metallic finish, includes 6" legs, includes power cord with NEMA 5-15P plug, 115v/60/1-ph, 12.8 amps, NSF, cULus, engineered and assembled in USA

1 ea. 3 year parts & labor warranties
1 ea. 5 year parts on compressor & condenser
1 ea. 5 year parts & labor on evaporator
1 ea. Model KBC1 Bin Caster Kit, 3-1/2" dia. wheels, (2) standard wheels & (2) locking, raises bin 4-7/16" - not to be used when machines are stacked or with SB480 when using extension

ITEM 88A - ICE WATER FILTRATION SYSTEM (1 REQ'D ALT 9A)
3M Purification Model ICE140-S

3M Water Filtration Products Water Filter System, with gauge, 14-7/8"H x 5-1/16"D, valve-in-head, standard water, single vessel, 1/4-turn shut off valve, max pressure of 125 psi at 100°F, 0.2 micron, 2.5 gpm flow rate, 25,000 gallons capacity, for cyst, bacteria, sediment, chlorine taste and odor, scale, includes: (1) integral mounting bracket and (1) o-ring seal cartridge filter, 3/8" FNPT connections, NSF certified (for ice machines - cubers up to 1000lbs)

1 ea. Model HF40-S 3M Water Filtration Products Replacement Cartridge, large diameter, 0.2 micron, 2.5 gpm flow rate, 25,000 gallons capacity, reduces bacteria, sediment, chlorine taste & odor, cyst, scale inhibitor for ICE140-S, NSF certified

ITEM 89A - UNDERCOUNTER REFRIGERATOR, LEFT-HINGED (1 REQ'D ALT 9A)
Victory Refrigeration Model VUR27HC

Undercounter Refrigerator, one-section, 27"W, rear mounted self-contained refrigeration, 6.15 cubic feet capacity, (1) self-closing door, (2) epoxy coated wire shelves, full electronic control, 1/2" thick stainless steel top, stainless steel door, front & sides, aluminum interior, Santoprene gaskets with 2 year warranty, R290 Hydrocarbon refrigerant, 1/10 HP, UL-Sanitation, cULus, UL EPH Classified, MADE IN USA

1 ea. Model WARRANTY 7 year parts & labor and 7 year compressor warranty
1 ea. Model ELECTRICAL 115v/60/1-ph, 2.0 amps, with cord & NEMA 5-15P
1 ea. Model LEFT-HINGED Door hinging: on left at factory
1 ea. Model SS-INTERIOR Stainless steel interior in lieu of standard
1 ea. Model SS-BACK Stainless steel back
1 ea. Model CASTERS 3" Casters, in lieu of standard 6" casters

ITEM 90A - ESPRESSO CAPPUCCINO MACHINE (1 REQ'D ALT 9A)
Egro USA Model EGRO NEXT TOP MILK XP

Egro NEXT Top Milk XP, super-automatic, app-controlled user interface, 10" HD Android smart tablet for unlimited menu selections, (2) self-adjusting grinders & (2) hoppers, automatic daily cleaning, centralized hot water, Americano bypass single cup, milk is automatically steamed & frothed, includes: milk pumps (for one type of milk), up to 250 milk drinks per hour, ABS & stainless steel construction, CE, cETLus, ETL-Sanitation

1 ea. 2 year parts & 1 year labor warranty
1 ea. Machine install, start-up and calibration of equipment by Egro authorized service provider. Does not include the creation of new menu items or loading custom graphics. Please contact us prior to equipment shipment with menu needs REMOVAL OF THIS LINE ITEM WILL RESULT IN A VOIDED LABOR WARRANTY. Part Number: Install-Egro Milk
1 ea. 220v/60/1-ph, 30 amp, 6000 watts, NEMA L6-30P, standard
1 ea. Model 98-RG-WTR-SYS Rancilio Water Filter Complete System, with Sanitary Quick Change (SQC), inhibits scale, reduces chloramines, chlorine taste & odor, 0.5 micron rating, 0.5 gpm flow rate, 1204 gallons hardness capacity (based on 9gpm), includes hardness test kit, connections, & mounting bracket, for use with coffee & tea, NSF
1 ea. Water filtration kit required for warranty, 98-RG-WTR-SYS water filter is acceptable to most locations; Water hardness should be within 2-3 gpg
1 ea. Model MILK COFFEE CLEANING TABLETS (1) Egro Coffee Cleaning Tablets, (100) tabs per bottle & (2) Egro Milk Coffee Cleaning Tablets, (50) tabs per bottle
1 ea. Model CAFE PACKAGE (NEXT TOP MILK) Upgrade your Next Top Milk machine into the perfect café or staff operated machine. Includes iSteam intelligent steam wand for steaming non-dairy milk options or alternative milk choices. Includes an external hot water spout for fast speed of service.
1 ea. NEXT Fridge, 6.5 liter (1.7 gallon) capacity countertop fridge fits on the left side of the machine
1 ea. Multi-Milk, enables the machine to deliver two different types of milk. Special order option, may result in longer lead times.
1 ea. Year 1 scheduled maintenance visit, at 12 months from date of install
1 ea. Shipping from Woodridge, IL 60517. For shipments to Hawaii & Alaska, rural delivery, areas with high security, residential delivery or when a liftgate is needed additional fees may be applied
1 ea. Pricing is valid for 90 days from date of quote; FOB Woodridge, IL; Water entering machine must adhere to the Rancilio Group North America water quality statement

ITEM 91A - ESSPRESSO WATER FILTER SYSTEM (1 REQ'D ALT 9A)
3M Purification Model SGP195BN-T

3M Water Filtration Products ScaleGARD Pro Hardness Reduction System, valve-in-head, 1 gpm flow rate, 1,200 gallons @ 9 gpg, hard scale reduction, sediment, chlorine taste & odor (for espresso machines)

1 ea. Model P195BN 3M Water Filtration Products ScaleGARD Pro Replacement Cartridge, with chlorine reduction & 25% fixed blend, 1 gpm flow rate, 998 gallons @ 11 gpg, hard scale reduction, sediment, chlorine taste & odor

ITEM 92A - BOTTLE DISPLAY (2 REQ'D ALT 9A)
Dispense-Rite Model WR-BOTL-3

Bottle Organizer, wire rack, 3 section, 7-1/2"H x 4-1/4"W x 13-1/4"D, reinforced welded construction and durable powder coated finish, black

2 ea. 1 year limited warranty

ITEM 93A - DISPOSABLE CUP DISPENSER (2 REQ'D ALT 9A)
Vollrath Model CTCL-4B

4 High Countertop Lid Organizer, 5-1/4"W x 20-3/4"D x 19-1/2"H, accommodates lids & cups 2-5/8" - 4-3/4" dia., black ABS & smoked acrylic, NSF, Made in USA.

ITEM 94B - POS SYSTEM (1 BY VENDOR ALT 9B ~~8~~)
By Vendor Model POS SYSTEM

ITEM 95-99 - SPARE NO.

ITEM 100 - DUMP SINK (1 REQ'D)
John Boos Model PBHS-W-1410-SSLR-X

Pro-Bowl Hand Sink, wall mount, 14"W x 10" front-to-back x 5" deep bowl, splash mount faucet holes with 4" centers, 1-7/8" drain opening with basket drain, with left & right side splashes, includes mounting bracket, all stainless steel construction, NSF, (faucet NOT included)

ITEM 100.1 - WALL / SPLASH MOUNT FAUCET (1 REQ'D)
T&S Brass Model B-1146-02A-CR

Workboard Faucet, wall mount, 4" centers, 4-3/8" swivel gooseneck nozzle (includes lock washer to convert to rigid), 2.2 GPM aerator, quarter-turn Cerama cartridges with check valves, lever handles with color-coded indexes, 1/2" NPT male inlets, ADA Compliant

ITEM 101 - 72" X 131" L-SHAPED SOILED DISHTABLE (1 REQ'D)
Approved Fabricator

Soiled Dishtable, L-shaped, 121”W x 36” front-to-back x 72”L x 44"H, 34" work height sloped toward dishmachine.
Top: 14ga., type-304 stainless steel top with type-B raised rolled edge, 2"D x 10"H backsplash with (1) set of 8" O.C. faucet holes, and type-B framework with sound deadening pads between all support channels and the top. Size the RIGHT table opening for Hobart Model CL66-DWR+BUILDUP conveyer-type dishmachine. Cut-out previsions for Salvajor 300-PSM.
Base: 16ga. type-304 stainless steel 1-5/8" dia. legs with adjustable bullet feet and 1-5/8" dia. cross bracing with adjustable set-up. The base shall be removable from the top. Refer to plans and elevations for specific sizing. Refer to fabrication details.

ITEM 102 - DISPOSAL SYSTEM (1 REQ'D)
Salvajor Model 300-PSM

Pot/Pan ScrapMaster, scrapping, pre-flushing & disposing system with water recirculation, large top opening to accommodate pots & pans, 3 HP disposer, salvage basin & silverware trap, stainless steel construction, with NEMA 4 HYDROLOGIC control panel with patented operator sensor, water saving mode, safety line disconnect & LCD readout, UL, CSA, CE, NSF. 460/480v/60/3-ph, 5.83 amps

1 ea. 2nd-year warranty (P/N 999185)
1 ea. Model RSS Remote start/stop switch for all controls

ITEM 103 - PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET (1 REQ'D)
T&S Brass Model B-0131-12-CRBJK

Pre-Rinse Unit, wall mount mixing faucet with 8" adjustable centers, add-on faucet, 12" swing nozzle with stream regulator outlet (062X), quarter-turn Cerama cartridges with check valves, lever handles with color coded indexes, 26" rigid riser with overhead swivel arm, 20" flexible stainless steel hose with heat-resistant gray handle & hold down ring, 1.07 GPM spray valve (B-0107-J), finger hook, 6" wall bracket, includes 1/2" NPT male elbow installation kit, polished chrome-plated brass faucet body, 1/2" NPT female inlets, cCSAus

1 kt. Model B-0230-KIT Inlet Kit, 1/2" NPT nipple, close elbows, 24" flex supply hoses

ITEM 104 - 36" X 16" TUBULAR SHELF (1 REQ'D)
John Boos Model BHS1636-T

Shelf, tubular, wall mount, 36"W x 16"D, includes end brackets, 16/300 stainless steel

ITEM 105 - 24" X 16" TUBULAR SHELF (1 REQ'D)
John Boos Model BHS1624-T

Shelf, tubular, wall mount, 24"W x 16"D, includes end brackets, 16/300 stainless steel

ITEM 106 - DISHWASHER, CONVEYOR TYPE (1 REQ'D)
Hobart Model CL66-DWR+BUILDUP

Conveyor Dishwasher, single tank with power scrapper; Drain Water Energy Recovery with factory-installed drain water tempering kit; (202) racks/hour, .45 gallon/rack, Complete Delime with Booster Guard, Touch Screen Controls with diagnostics, troubleshooting, and SmartConnect App, capless wash arms, NSF Pot & Pan mode, pumped rinse, insulated hinged doors, cULus, NSF, Factory Startup - Free for installations within 100 miles (accessible by public roadway) of a Hobart Service Office during normal business hours with appropriate notice; Installation beyond 100 miles or those not accessible by public roadway will be quoted by Service.

1 ea. Oversized units with crated shipping dimensions greater or equal to 72" in length and/or 90" in height. If delivery is to a facility without a standard height dock, additional shipping charges will apply depending on the service requested. consult Factory.
1 ea. Standard warranty - 1-Year parts, labor & travel time during normal working hours within the USA
1 ea. Model CL66DWR-HTE15K Electric tank heat 15kW
1 ea. Model CL66DWR-ELE0CD 480v/60/3-ph
Single point connection standard (field convertible to dual point)
1 ea. Model CL66DWR-HGTSTD Standard Height 19.5”H x 22”W opening, fits full-sized sheet pan, horizontal
1 ea. Model CL66DWR-ERH18K With 18 kW Booster (default)
1 ea. Model CL66DWR-DIR0RL Right to left operation
1 ea. Model CL-BDR0NO Without Blower Dryer
1 ea. Model WS80-NOINSTALL Water softening system 4,818 grains/lb capacity, 14 gallons regeneration volume, salt alarm, holds 2 bags of salt, pricing DOES NOT include installation. INSTALLATION BY AUTHORIZED HOBART SERVICE OFFICE IS RECOMMENDED
1 ea. Model CL66EN-BASFETSTD Standard feet

ITEM 107 - CONDENSATE HOOD (1 REQ'D)
Accurex Model ~~XD1-72.00-S~~ XD1-80.00-S

Condensate Hood, ~~72~~80” L x ~~48~~54” L x 24” H, (1) 8” W x 12” L Factory mounted Exhaust Collar, Exhaust CFM 1,000, 430 SS Material 100% construction, Included Performance Enhancing Lip (P.E.L.) for up to 31% lower exhaust rates.
Accessories:

1 ea. 18 in. High Ceiling Enclosures on - Left Front Right
2 ea. Round LED Light Fixture (Bulbs not included)

ITEM 108 - CONDENSATE FAN (1 BY DIV. 23)
Division 23 – Mechanical

ITEM 109 - 60" X 8" FLOOR TROUGH (1 REQ'D)
IMC/Teddy Model FWR-60-SGAS

FWR Floor Water Receptacle, 60"W x 7-1/2"D, 4" deep receptacle, (1) 4" OD tailpiece, stainless steel beehive strainer, 16/304 stainless steel construction, brushed satin finish, (SGAS) anti-slip subway grating, NSF, Made in USA

1 ea. Model DOD 3-1/2” OD Tube (each)
1 ea. Basket Strainer with Pull-Out Handle & Chain

ITEM 110 - 144" X 30” ROLLER CLEAN TABLE (1 REQ'D)
Approved Fabricator

Clean Dishtable 144"W x 30"D x 44"H overall size, 34” Table Height to connect to Hobart Model CL44-DWR+BUILDUP
Top: 14ga. type-304 stainless steel construction consisting a 10"H x 2"D Type-A backsplash , and sound deadening pads. with vertical and horizontal corners coved to a 3/4” radius. Table to be equipped with turned up sides with box edge on front and 9” high X 2-1/2” wide backsplash. Table shall be connected to LEFT exit end of the dishmachine to provide a drip-proof connection. Slope table to drain, built into table as shown on plan. Table shall be designed to accept a gravity roller conveyor to carry dish racks from dish machine smoothly & designed to help the drip drying of racks. With Table Limit Switch. LEFT side opening for Hobart Model CL44-DWR+BUILDUP conveyor-type dishmachine
Base: 16ga. Type-304 stainless steel construction consisting of (4) legs, and adjustable bullet feet. Legs shall be supported on 12 ga. stainless steel leg channels. All cross rails to be fully welded to legs with all welds polished and ground smooth. Provide a pre-wired accumulation switch at end of clean table integrated with dish machine to shut machine off when a rack reaches the end of the table. (5) sections of glass rack sides in between legs.
PVC roller conveyor shall be in accordance with the following:
Rollers shall be 1.9” dia. blue PVC, fitted with polypropylene bearings with stainless steel balls. Rollers shall be spaced at approximately 5-1/2” centers. Shafts shall be 7/16” hexagon aluminum securely bolted to side rails. Side rails shall be 1/8” x 2” stainless steel resting on support pins welded to side of conveyor bed to keep rollers elevated above bottom of bed for effective draining of water from dish racks. At exit of dish machine, first two (2) rollers shall be stainless steel tubing construction. Connection: (1) 1-1/2” drain

ITEM 111 - 63" X 15" SOLID SORTING SHELF (1 REQ'D)
John Boos Model PB-SRW-63

Sorting Shelf, 63"W x 15-3/8"D X 16-1/2"H, holds (3) racks, wall mounted, solid, includes brackets, 18/300 stainless steel, NSF

ITEM 112 - THREE (3) COMPARTMENT SINK (1 REQ'D)
John Boos Model 3PB244-2D30

Pro-Bowl Sink, 3-compartment, 135-1/4"W x 29-1/2"D x 44-1/16"H overall size, (3) 24"W x 24" front-to-back x 14" deep compartments, (2) 30" left & right drainboards, 10"H boxed backsplash with 45° top and 2" return, (2) sets of splash mount faucet holes with 8" centers, 3-1/2" die-stamped drain opening, 16/300 stainless steel construction, stainless steel legs, adjustable front & side bracing, adjustable bullet feet, NSF, CSA-Sanitation, KD

- 11 ft. Model SD-1PD Sound Deadening Pads, placed one foot on center, 10" x 3-1/2" x 1/16" (per linear foot)
- 3 ea. Model X-0414C Over flow hole, rear centered (modification)
- 1 ea. Model X-0430CA Modify tub spacing, for (3) compartment sink (modification)

ITEM 112.1 - WALL / SPLASH MOUNT FAUCET (1 REQ'D)
T&S Brass B-0231

Pantry Faucet, double, wall mount, 8" centers, 12" swing nozzle, lever handles, stream regulator tip, quarter-turn Cerama cartridge, low lead, (2) 24" flex hose, 1/2" NPT, NSF, ADA Compliant

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 112.2 - DRAIN, LEVER / TWIST WASTE (3 REQ'D)
T&S Brass Model B-3992-01-3X

Modular Waste Drain Valve, with pull handle, 3-1/2" sink opening, 2" NPT male / 1-1/2" female outlet, overflow tube with head assembly, 3" handle extension

This item is an accessory to the item above and is not tagged or scheduled.

ITEM 113 - PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET (1 REQ'D)
T&S Brass Model B-0133-01

Pre-Rinse Unit, mixing faucet, 8" wall mount, 14" add-on 063X swing nozzle, 18" riser, overhead spring, lever handles, 56" flex hose, Eterna cartridges, spray valve (B-0107), 9" wall support (B-0109-02), 1/2" male NPT, EPAct2005 Compliant

ITEM 114 - HOSE REEL ASSEMBLY (1 REQ'D)
T&S Brass Model B-7232-01

Hose Reel System, open, 3/8" x 35 ft. hose with high flow spray valve, with ratcheting system & adjustable hose bumper, epoxy coated steel

1 ea. Model 0RK1 Mixing Control Valve, wall mount, 4" centers, concealed body, removable loose key T-handles, 1/2" female NPT bottom, & 3/8" female NPT top
1 ea. Model B-0109-01 Wall Bracket, 6"
1 ea. 1 year limited warranty, standard
1 ea. Model G016652-45 Pivot Bracket, universal, epoxy coated steel, black, (mounting hardware not included)
1 ea. 1 year limited warranty for hose, standard
1 ea. 2 year limited warranty for hose reel, standard
1 ea. Model B-0107 Spray Valve, self-closing cartridge, 1.15 GPM, includes: hose washer, hold down ring & rubber bumper, 3/4"-14 male inlet
1 ea. Model B-2339-LR Hose Reel Control Cabinet, with control valve & temperature gauge & dual check valves

ITEM 115 - 48" X 24" X 78" MOBILE DRYING RACK (2 REQ'D)
Cambro Model EXMU244878V4480

Mobile Unit, 24"W x 48"L x 78-1/4"H, 4-tier, withstands temperature from -36°F (-38°C) to 190°F (88°C), includes: (4) vented reinforced polypropylene shelf plates with antimicrobial protection, (4) composite posts, pre-assembled post connectors & wedges, (8) Universal Traverses & (4) bags of 4 dovetails (8 left, 8 right), (4) premium swivel casters with total locking brake, 900 lbs. max capacity, speckled gray, Made in USA, NSF

2 ea. Lifetime warranty against corrosion and rust
2 cs. Model CSDR73151 Camshelving Vertical Drying & Storage Cradle, 10-1/4"W x 23-1/2"L x 3-3/4"H, 7-slot rack, allows sufficient air circulation (maximum product width of 1-5/16"), fits all 24" wide Camshelving, Camshelving Elements, Mobile or Stationary up to 24"L to 72"L shelving units, soft gray, high impact ABS, NSF (3 racks per case), Made in USA

ITEM 116-117 - SPARE NO.

ITEM 118 - MOP SINK CABINET (1 REQ'D)
John Boos Model PBJC-224884-L

Janitor Cabinet, 48"W x 22-1/2"D x 84"H overall size, enclosed cabinet with open back for plumbing, (2) lockable louvered swing doors, left side includes: 20" x 16" x 12" deep mop sink with 3-1/2" drain, (1) over head shelf, (2) side mounted mop/broom holder with locking cam and panel-less back, right side includes: (3) shelves and bottom storage area, includes (1) service faucet with vacuum breaker and 120" hose, 18/300 stainless steel, NSF

END OF SECTION 11 4000

LIST OF ABBREVIATIONS

(E) - EXISTING
(V) - VERIFY
A/E - ARCHITECT/ENGINEER
AC - ALTERNATING CURRENT
ACI - AMERICAN CONCRETE INSTITUTE
ACM - ASBESTOS CONTAINING MATERIAL
ACP - ACOUSTICAL CEILING PANEL
ACS - ADULT CHANGING STATION
ACT - ACOUSTICAL CEILING TILE
ADA - AMERICANS W/DISABILITIES ACT
AFF - ABOVE FINISH FLOOR
AHU - AIR HANDLING UNIT
AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT - ALTERNATE
ALUM - ALUMINUM
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH - ARCHITECT
ASHRAE - AMERICAN SOCIETY OF HEATING REF. AND AIR CONDITIONING ENGINEERS
ASI - ARCHITECTURAL SUPPLEMENTAL INSTRUCTION
AWI - AMERICAN WOODWORKING INSTITUTE
AWP - ACOUSTICAL WALL PANEL
BD - BOARD
BLDG - BUILDING
BM - BEAM
BOT - BOTTOM
BRG - BEARING
BRK - BRICK
BRK - CARPET - ANTI-STATIC
BTU - BRITISH THERMAL UNITS
BUR - BUILT UP ROOFING
CAB - CABINET
CB - CATCH BASIN
CBB - CEMENT BACKER BOARD
CG - CORNER GUARD
CI - CAST IRON
CIP - CAST IN PLACE
CJ - CONTROL JOINT
CLG - CEILING
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
CMU-B - CONCRETE MASONRY UNIT (BURNISHED)
CMU-G - CONCRETE MASONRY UNIT (GLAZED)
CMU-S - CONCRETE MASONRY UNIT (SCORED)
CO - CLEAN OUT
CONC - CONCRETE
CONC-P - POLISHED CONCRETE
CONC-S - SEALED CONCRETE
CONC-ST - STAINED CONCRETE
CP - CABINET PULL
CPT - CARPET
CPT-AS - CARPET - ANTI-STATIC
CPT-ESD - CARPET - ELECTROSTATIC DISCHARGE
CS - CAST STONE
CSMT - CASEMENT
CSWK - CASEWORK
CT - CHANGING TABLE
CTR - COUNTER
CUH - CABINET UNIT HEATER
DEMO - DEMOLITION
DEPT - DEPARTMENT
DF - DRINKING FOUNTAIN
DIA - DIAMETER
DIAG - DIAGONAL
DIM - DIMENSION
DIST - DISTANCE
DOC - DOCUMENT
DR - DOOR
DTL - DETAIL
DW - DISHWASHER
DWG - DRAWING
EA - EACH
EB - EDGEBANDING
EHD - ELECTRIC HAND DRYER
EIFS - EXTERIOR INSULATION FINISH SYSTEM
EJ - EXPANSION JOINT
ELEC - ELECTRIC
ELEV - ELEVATOR/ELEVATION
EQ - EQUAL
EQUP - EQUIPMENT
EWC - ELECTRIC WATER COOLER
EXIST - EXISTING
EXP - EXPOSED
FAF - FLUID APPLIED FLOORING
FD - FLOOR DRAIN
FEC - FIRE EXTINGUISHER CABINET
FF - FINISH FLOOR
FFE - FURNITURE, FIXTURE, AND EQUIPMENT
FHC - FIRE HOSE CABINET
FIN - FINISH
FLR - FLOOR
FND - FOUNDATION
FRP - FIBERGLASS REINFORCED PANEL
FRT - FIRY REGLET REVEAL TRIM
FTG - FOOTING
FWC - FABRIC WALL COVERING
G - GROUT
GALV - GALVANIZED
GB - GRAB BAR
GC - GENERAL CONTRACTOR
GEN - GENERAL
GL - GLASS/ GLAZING
GWB - GYPSUM WALL BOARD
HB - HOSE BIB
HCP - HANDICAP
HDW - HARDWARE
HDWD - HARDWOOD
HM - HOLLOW METAL
HORZ - HORIZONTAL
HSD - HAND SANITIZER DISPENSER
HT - HEIGHT

LIST OF ABBREVIATIONS

IBC - INTERNATIONAL BUILDING CODE
INSUL - INSULATION
INTB - INTEGRAL BASE
JAN - JANITOR
LAM - LAMINATE
LAV - LAVATORY
LGMF - LIGHT GAUGE METAL FRAMING
LOCK - LOCKER
LVR - LOUVER
LVT - LUXURY VINYL TILE
MAS - MASONRY
MB - MARKER BOARD
MBH - MOP/ BROOM HOLDER
MDF - MEDIUM DENSITY FIBERBOARD
MECH - MECHANICAL
MH - MANHOLE
MIR - MIRROR
ML - MATCHLINE
MPTLP-SN - METAL PROFILE STAIR NOSING
MTL - METAL
MTL STD - METAL STUD
MTLP - METAL PROFILE TRIM
MW - MICROWAVE
N - NONE
NC - NON COMBUSTIBLE
NIC - NOT IN CONTRACT
NOM - NOMINAL
NTS - NOT TO SCALE
OC - ON CENTER
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED
OH - OVERHEAD
OSB - ORIENTED STRAND BOARD
OTS - OPEN TO STRUCTURE
OWP - OPERABLE WALL PANEL
PB - PARTICLE BOARD
PC - PRECAST
PLAM - PLASTIC LAMINATE
PLAST - PLASTER
PLYWD - PLYWOOD
PREV - PREVIOUS
PRF - PREFINISHED
PT - PAINT
PT-E - PAINT- EPOXY
PTD - PAPER TOWEL DISPENSER
PWP - PREFINISHED WALL PANEL
QT - QUARRY TILE
QTB - QUARRY TILE BASE
RAD - RADIUS
RAF - RESILIENT ATHLETIC FLOORING
RB - RESILIENT BASE
REINF - REINFORCEMENT
REQD - REQUIRED
REV - REVERSE
RH - ROBE HOOK
RM - ROOM
RN - RESILIENT NOSING
RO - ROUGH OPENING
RR - RESILIENT REDUCER
RSF - RESILIENT SHEET FLOORING
RSTR - RESILIENT STAIR TREADS
RSTR - RESILIENT STAIR TREADS-RISERS
RT - RUBBER TILE
RTU - ROOF TOP UNIT
RWS - ROLLER WINDOW SHADES
SC - SPECIAL COATING
SCD - SEAT COVER DISPENSER
SD - SOAP DISPENSER
SDT - STATIC DISSIPATIVE TILE
SECT - SECTION
SHT - SHEET
SIM - SIMILAR
SLT - SLATE
SLT-T - SLATE TILE
SMK - SMOKE
SND - SANITARY NAPKIN DISPOSAL
SNV - SANITARY NAPKIN VENDING MACHINE
SPC - SPECIALTY COUNTERTOP
SPEC - SPECIFICATIONS
SQ - SQUARE
SS - STAINLESS STEEL
SSF - SOLID SURFACE
ST - STONE
STN - STAIN
SUSP - SUSPEND
SV - SHEET VINYL
T - TILE
TAC - TACKABLE WALL COVERING
TB - TACK BOARD
TBVP - TRAFFIC BEARING WATER PROOFING
TC - THIN COAT
TEMP - TEMPORARY/TEMPERATURE
TO - TOP OF
TP - TOILET PARTITION
TPD - TOILET PAPER DISPENSER
TRTD - TREATED
TS - TRANSITION STRIP
TYP - TYPICAL
UL - UNDERWRITERS LABORATORIES
UNF - UNFINISHED
UNO - UNLESS NOTED OTHERWISE
VCT - VINYL COMPOSITION TILE
VWC - VINYL WALL COVERING
W/ - WITH
WD - WOOD
WDT - WOOD TRIM
WDW - WINDOW
WOM - WALK-OFF MAT
WR - WASTE RECEPTACLE
WT - WINDOW TREATMENT
WWC - WOOD WALL COVERING

GENERAL NOTES

1. NOTIFY ARCHITECT PROMPTLY IF ANY CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS
2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION/CONSTRUCTION.
3. CONTRACTORS TO VERIFY ALL EXISTING CONDITIONS, VISIT SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS.
4. DIMENSIONS AND ELEVATIONS AS SHOWN ON THE DRAWINGS MUST BE FIELD VERIFIED AND COORDINATED.
5. COORDINATE ALL PENETRATIONS THRU FOUNDATION W/APPROPRIATE TRADES.
6. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE AT ALL TIMES DURING THE CONSTRUCTION PHASE. SIDEWALKS FRONTING THE BLDG SHALL REMAIN USABLE AND CLEARED OF MUD OR OTHER DEBRIS. CONTRACTOR WILL MAINTAIN A CLEAR AND REASONABLE WORK AREA TO BE COORDINATED WITH BUILDING MANAGER/OWNERS REPRESENTATIVE.
7. CONTRACTOR SHALL VERIFY AND PROVIDE ANY ROUGH-IN CONSTRUCTION REQUIRED FOR OWNER-INSTALLED EQUIPMENT CALLED OUT IN DRAWINGS OR SPECIFICATIONS UNLESS OTHERWISE NOTED
8. MINIMUM SLIP RESISTANCE OF FLOOR SURFACES.-WALKING SURFACES (GENERAL): 0.5 STATIC COEFFICIENT OF FRICTION-ACCESSIBLE ROUTES: 0.6 STATIC COEFFICIENT OF FRICTION -RAMPS: 0.8 STATIC COEFFICIENT OF FRICTION
9. ALL DIRECTIONAL REFERENCES IN DRAWINGS SHALL REFER TO PLAN NORTH.
10. ALL JOINTS & PENETRATIONS SHALL BE FIRE SAFED & FIRE SEALED AS REQUIRED TO COMPLY WITH APPLICABLE BUILDING CODES.
11. KEYNOTES ARE USED TO ASSIST IN NOTING AND INDICATE REPETITIVE INSTANCES
12. SUSPENDED CEILING HEIGHTS ARE DIMENSIONED FROM FINISHED FLOOR.
13. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, CEILING DIFFUSERS/GRILLES AND ANY ADDITIONAL CEILING ITEMS WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND ARCHITECT. ALL SPRINKLER HEADS SHALL BE PLACED IN THE CENTER OF CEILING TILES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT.

ARCH. MASTER LIST - KEYNOTES

(#)

Exterior Elevation
1 BUILDING SIGNAGE. PROVIDE WALL BACKING AS REQUIRED. SEE SHEET A611 FOR DETAILS
2 METAL ROOF COPING. COLOR TO BE CLEAR ANODIZED EXCEPT FOR MP-2 AND MP-3 ASSEMBLIES: MATCH PANEL COLOR
3 BUILDING MOUNTED LIGHTING. SEE ELECTRICAL.
4 RAIN LEADER DISCHARGE PIPING FOR SECONDARY OVERFLOW DRAINS, 16" ABOVE GRADE. COORDINATE WITH MECHANICAL.
5 CARD READER. SEE PLANS AND COORDINATE WITH ELEC
6 ADA DOOR PUSH BUTTON. SEE PLANS AND COORDINATE WITH ELEC
7 LOUVER, SEE MECHANICAL
8 CONCRETE SPLASH BLOCK. SEE DETAIL 9/A508
9 CONNECTION FOR CAMERA. SEE ELEC
10 DOWNSPOUT. COLOR TO MATCH MP-1

Finish Floor
1 MTLP-3 AT FLOOR TILE TO RESILIENT FLOOR TRANSITION
2 MTLP-5 AT FLOOR TILE TO CONC. TRANSITION
3 MTLP-6 AT FLOOR TILE TO CPT TRANSITION
4 RR-3 AT RESILIENT FLOOR TO RESILIENT FLOOR TRANSITION
5 RR-1 AT CPT TO CONC. TRANSITION
6 RR-3 AT CPT TO RESILIENT FLOOR TRANSITION
7 RR-2 AT RESILIENT FLOOR TO CONC. TRANSITION
8 PROVIDE 4'-0"H FRP ON WALLS ADJACENT TO MOP SINK WITH MFR STANDARD TRIM PIECES. SEE ELEVS.
9 PROVIDE FULL HEIGHT WALL TILE: SEE INTERIOR ELEVATIONS FOR TYPES AND INSTALLATION PATTERNS
10 FLOOR PATTERN IS 90% LVT-1 AND 10% LVT-2, PLACED RANDOMLY AT A 1/3RD OFFSET.
11 RWS-1 (MANUAL) W/ SSF-1 SILL AS OCCURS.
12 RWS-2 (MOTORIZED) W/ SSF-1 SILL
13 6'-8" HIGH WALL PADDING AT 0'-4" AFF, ENTIRE ROOM. BLOCKING TO BE PROVIDED PRIOR TO INSTALLATION.
14 STOP FRP AND/OR BASE HERE W/ TRIM PIECES AS REQUIRED.
15 NOTE NOT USED.
16 STAIRS TO RECEIVE RSTR-1 W/ RT-1 AT LANDINGS; ALL HANDRAILS, STRINGERS AND EXPOSED STAIR PARTS TO BE PAINTED PT-6
17 RWS-3 (MANUAL) BLACKOUT - W/ SSF-1 SILL
18 PAINT STRUCTURAL COLUMN PT-6
19 FINISH WALL W/ LEVEL 5 FINISH FOR VINYL WALL GRAPHIC INSTALLATION AS OCCURS OR FUTURE. PRECAST LOCATIONS TO HAVE SEAMS FILLED AND PREPPED FOR FLAT, SMOOTH WALL.
20 4'-0" HIGH BAND OF ACOUSTIC PANELS AT 3'-0" AFF, SEE ELEVS.
22 RR-4 AT RAF TO CONC. TRANSITION
23 KEYWAY TRANSITION FROM EPOXY FLOORING TO POLISHED CONCRETE
24 DIVIDER STRIP TRANSITION FROM EPOXY FLOORING TO URETHANE FLOORING BY FOOD SERVICE.
25 STAINLESS STEEL COVER BASE, BY FOODSERVICE.
26 METAL THRESHOLD AT WOOD FLOOR TO CONC. THRANSITION, SEE DETAIL
27 TRANSITION FROM CARPET TO EXISTING FLOORING, VERIFY IN FIELD.
28 EXISTING MATERIAL WILL BE USED TO PATH AREA AS NEEDED, CONFIRM WITH CONTRACTOR
29 ELEVATOR CAB TO RECEIVE LVT-1
30 STAINLESS STEEL WALL PANELS BY FOODSERVICE
31 STAIRS TO RECEIVE WD-2 TREADS AND PT-6 RISERS; ALL HANDRAILS, STRINGERS, AND EXPOSED STAIR PARTS TO BE PT-6

Floorplan
1 CARD READER, SEE ELEC
2 HANDICAP DOOR ACTUATOR PUSH BUTTON. COORDINATE WITH ELECTRICAL AND HARDWARE SPECIFICATIONS.
3 CABINET UNIT HEATER. COORDINATE WITH MECHANICAL AND ELECTRICAL.
4 FUTURE TECHNOLOGY LOCATION, NIC. COORDINATE POWER ROUGH-IN REQUIREMENTS WITH ELEC. PROVIDE PLYWOOD BLOCKING IN WALL (2'-0" X 2'-0") AND ROUGH-INS FOR A/V MOUNT. COORDINATE FINAL SIZE AND LOCATION WITH OWNER.
5 EQUIPMENT, OFCI
6 OWNER PROVIDED WASHER/DRYER. SEE MECHANICAL.
7 DRINKING FOUNTAIN. SEE MECHANICAL.
8 PATCH AND REPAIR EXISTING WALL AT NEW WALL TIE-IN OR AT REMOVED WALL.
9 FIRE EXTINGUISHER CABINET - SEMI-RECESSED AT GYP.
10 FIRE EXTINGUISHER CABINET - WALL MOUNTED AT CMU/PRECAST.
11 -
12 BOLLARD. SEE CIVIL
13 EXISTING KILN TO BE RELOCATED AND SET UP. 3'-0" DIAMETER, OFCI
14 MOP SINK, SEE MECHANICAL AND FINISH PLANS. PROVIDE CUSTODIAL MOP/BROOM HOLDER ADJACENT TO MOP SINK; MOUNT AT 48" AFF. COORDINATE WITH OWNER PRIOR TO INSTALL. SEE ELEVATIONS.
15 EMERGENCY SHOWER EYE WASH STATION. SEE MECH.
17 MIRROR, 48"W X 84"H, MOUNT 20" A.F.F.
18 EQUIPMENT BY OWNER
19 FUTURE TECHNOLOGY LOCATION, NIC. COORDINATE POWER ROUGH-IN REQUIREMENTS WITH ELEC AT 66" AFF. PROVIDE PLYWOOD BLOCKING IN WALL (2'-0" X 2'-0") AND ROUGH-INS FOR FUTURE A/V MOUNT. COORDINATE FINAL SIZE AND LOCATION WITH OWNER.
20 BOTTLE FILLER, SEE MECH.
21 EMERGENCY KEY BOX, INSTALL AT 40" AFF
22 FLOOR DRAIN, SLOPE MINIMUM 1/4"/12" COORDINATE WITH MECHANICAL OR FOODSERVICE.
23 SPLASHBLOCK - SEE DETAIL 8/A508
24 SHELVING, OFCI
25 ELECTRICAL PANEL, SEE ELEC.
26 FIN TUBE RADIATOR, COORDINATE WITH MECHANICAL AND ELECTRICAL.
27 RECESSED DISPLAY CASE. SEE INTERIOR ELEVATIONS AND DETAIL 9/A421
28 GAS SHUT OFF IN RECESSED 12" X 12" X 6" DEEP LOCKABLE BOX. MOUNT AT 40" TO TOP A.F.F. SEE MECH
29 FLOOR TROUGHS - SEE FOODSERVICE AND MECH.
30 COILING SECURITY DOOR OPERATORS, SEE ELEC.
31 ROOF LADDER - SEE DETAIL 13/A505
32 INFILL NEW CONCRETE SLAB ON GRADE W/ VAPOR BARRIER. INFILL IN ENTIRE SPACE INDICATED OR TO EXTENTS SHOWN. COORDINATE EXTENTS WITH DEMO PLANS, MECH & ELEC.
33 FLOOR CLEANOUT, SEE MECH

Interior Elevation
1 MTLP-1 AT TOP OF WALL TILE AND OUTSIDE CORNERS. SEE TRANSITION DETAILS ON A610.
2 MTLP-2 AT BASE OF WALL TILE, COVE TRANSITION TO FLOOR TILE. SEE TRANSITION DETAILS ON A610.
3 MTLP-7 AT BASE OF WALL TILE, COVE TRANSITION TO CONC. FLOOR. SEE TRANSITION DETAILS ON A610.
4 LOCKABLE CABINET DOORS AND/OR DRAWERS
5 DOUBLE PULL OUT TRASH/RECYCLING
6 SSF-2 COUNTER W/ 5" H APRON; INSTALL CONCEALED WALL BRACKETS AS REQUIRED
7 INSTALL SURFACE MOUNTED WALL BRACKETS AS REQUIRED
8 STANDARD FRP TRIM BASE OF FRP AND MTLP-1 AT TOP OF WALL TILE BASE. SEE TRANSITION DETAILS ON A610.
9 SSF-2 COUNTER W/ 5" H APRON; INSTALL SURFACE MOUNTED WALL BRACKETS AS REQUIRED
10 FLOOR DRAIN, COORDINATE WITH MECHANICAL
11 PROVIDE METAL FILLER PANELS AT EXPOSED ENDS OF LOCKERS
12 DIMENSIONAL SIGNAGE, SEE SHEET A611 FOR DETAILS & A800 SHEETS FOR LOCATIONS.
13 BUILT-IN BENCH, SEE SPEC

Precast
1 STRUCTURAL CONNECTION ON BACK SIDE OF PRECAST, SEE STRUCTURAL FOR LOCATIONS AND DETAILS
2 STRUCTURAL CONNECTION ON FRONT SIDE OF PRECAST, SEE STRUCTURAL FOR LOCATIONS AND DETAILS
3 OPENING FOR DUCT. COORDINATE WITH MECH

Notice: ICON Architectural Group, along with its consultants, has made its best efforts to compile addenda and coordinate items into a compiled construction set for the trades on site. However, ICON cannot guarantee that all items are shown in the correct location on the plans. The contractor is solely interested in and responsible for construction management items. It is the contractor's responsibility to review and rely on the information as it relates to their scope of work and cost management reduction plans. It is the contractor's sole responsibility to notify ICON and its consultants of such items. Use of these documents by the contractor, the Contractor expressly agrees to hold ICON and its consultants harmless for any inconsistencies.

AFTER BIDDING COMPILED CONSTRUCTION SET NOTE

Autodesk Docs://24-028 Valley City Public Schools High School/24-028 VCPS New PreK-12 School.rvt
3/17/2026 4:39:01 PM

SYMBOLS LEGEND

CENTER LINE
101B DOOR TAG
GRID BUBBLE
KEYNOTE TAG
DEMO TAG / INTERIOR SIGNAGE
EXTERIOR MATERIAL TAG
WALL TAG
WINDOW TAG
SPOT ELEVATION TAG
Name / Elevation LEVEL HEAD
XXX HORIZONTAL ASSEMBLY TAG
REVISION TAG
Room Name / 101 ROOM TAG
Room Name / 101 / 150 SF ROOM TAG w/ AREA
Room Name / 101 / 150 SF / ## ROOM TAG W/ AREA & OCCUPANT LOAD
Room Name / 101 / Wall Finish / Base Finish / Floor Finish / Ceiling Finish ROOM TAG w/ ROOM FINISH INFO AT PLANS (NOT ALL MAY BE SHOWN)

MATCHLINE REFERENCE
AREA - A
AREA - B
TN NORTH NORTH ARROW W/ TRUE NORTH
A### View Name 1/8" = 1'-0" VIEW TITLE
1 / A101 DETAIL CALLOUT
1 / A101 DETAIL SECTION
1 / A101 WALL SECTION
1 / A101 BUILDING SECTION
XXX_XXX FLOORING TRANSITION
XXX-# ACCENT WALL FINISH LOCATION
1'-0" / A | PT-# CEILING TAG W/ MAKE-UP TYPE AND FINISH, SEE RCP.

MATERIAL LEGEND

ALUMINUM
CONCRETE
EARTH
GRAVEL
GYPSUM
MASONRY - BRICK
MASONRY - CMU
RIGID INSULATION / EIFS
SAND
SAND - DENSE
SPRAY FOAM INSULATION
STEEL
STONE
WOOD - FINISHED CARPENTRY
WOOD - ROUGH CARPENTRY
WOOD - PLYWOOD

ARCH. MASTER LIST - KEYNOTES

(#)

4 FIELD CORED HOLES FOR MECH. COORDINATE RE-ENFORCEMENT FROM PRECAST SUPPLIER. MECHANICAL CONTRACTOR TO PROTECT FINISHED WALL AND CLEAN OFF CORE SLURRY FROM WALL IMMEDIATELY

RCP
1 ROOF HATCH OPENING
2 PAINT UNDERSIDE OF STAIRS, PT-6.

Roof Plan
1 NOT USED
2 CRICKET. SLOPED INSULATION TO PROVIDE 1/4" / 1'-0" MINIMUM PITCH AROUND OBSTRUCTION. TYPICAL AT ALL BUILDING JOGS, EQUIPMENT CURBS, AND WHERE REQUIRED TO PROVIDE POSITIVE SLOPE TOWARD ROOF DRAINS.
3 ROOF DRAINS. (PAIRED PRIMARY AND SECONDARY DRAIN BASIN. CONNECT PRIMARY DRAIN TO STORM SEWER. SECONDARY DRAIN TO DISCHARGE ABOVE GRADE. SEE ELEVATIONS. COORDINATE WITH MECHANICAL)
4 TAPERED INSULATION ABOVE LEVEL DECK. 1/4" / 1' - 0" MINIMUM SLOPE. (3" MINIMUM INSULATION DEPTH AROUND DRAIN).
5 OVERFLOW SCUPPER (BASE OF OPENING TO BE LOCATED 2" ABOVE PRIMARY DRAIN. COORDINATE WITH ELEVATIONS.
6 ROOF WALKWAY PADS (TYPICAL AROUND MECHANICAL EQUIPMENT)
7 ROOF TOP EQUIPMENT. SEE DETAIL AND MECHANICAL.
8 ROOF HATCH - SEE DETAIL
10 ROOF LADDER - SEE DETAIL
11 CONDUCTOR HEAD & DOWNSPOUT, EXTEND TO 16" ABOVE GRADE. SEE DETAIL -
12 PLUMBING VENT OR PIPE PENETRATION THROUGH ROOF. PROVIDE BOOT FLASHING. SEE DETAIL AND SEE MECHANICAL.
13 EXHAUST FAN PENETRATION THROUGH ROOF. SEE DETAIL AND SEE MECHANICAL.
14 PIPING WEATHER HOOD. SEE MECH
15 ROOF HYDRANT - SEE MECH

ARCH. MASTER LIST - DEMOLITION KEYNOTES

(#)

1 REMOVE WINDOW LOCATED IN WOOD STUD / EIFS WALL. PREP FOR NEW WORK.
2 REMOVE EXTERIOR WALL UP TO LAMINATED WOOD BEAM. COORDINATE EXTENT OF DEMO WITH FLOOR PLANS AND STRUCTURAL DRAWINGS. WORK TO BE SEQUENCED TO PROVIDE STRUCTURAL SUPPORT PRIOR TO REMOVAL.
3 REMOVE MARKERBOARD OR TACKBOARD AND ALL ASSOCIATED FASTENERS. SALVAGE AND TURN OVER TO OWNER. PATCH AND PREP WALL FOR NEW FINISH AS REQ. SEE FLOOR PLANS.
4 REMOVE INTERIOR STOREFRONT OR WINDOW AND ALL ASSOCIATED FRAMES, ETC.
5 REMOVE HM OR WOOD DOOR, HARDWARE, FRAME, AND SIDELIGHTS AS OCCURS. PREP AREA FOR NEW WORK. COORDINATE WITH FLOOR PLANS.
6 REMOVE MOUNTED CLOCKS, SPEAKERS, FIRE EXTINGUISHERS,PTD, SOAP, ETC. AS REQUIRED FOR NEW WORK. SALVAGE AND TURN OVER TO OWNER. COORDINATE WITH CM AND OWNER.
7 REMOVE SURFACE MOUNTED CONDUIT AS REQUIRED FOR NEW WORK. COORDINATE WITH CM AND ELEC FOR LOCATIONS AND SHUT OFFS. PROTECT EXISTING WALLS AND PREP FOR NEW WORK.
8 REMOVE PLASTIC LAMINATE CABINETS, COUNTERTOPS, OR SHELVING AS OCCURS AND ALL ASSOCIATED FASTENERS. BASE, BLOCKING, ETC. PREP FLOOR / WALL TO RECEIVE NEW FINISH AS REQUIRED.
9 REMOVE CARPET AND ASSOCIATED BASE AS REQUIRED. GRIND OFF ADHESIVE AS REQUIRED FOR NEW FLOORING IN ENTIRE ROOM OR TO EXTENTS SHOWN ON PLAN. PROTECT WALLS. ANY DAMAGE TO WALLS FROM BASE REMOVAL TO BE PATCHED AT CONTRACTOR'S EXPENSE. PREP AREA FOR NEW FLOOR FINISH. COORDINATE WITH FLOOR AND FINISH PLANS.
10 REMOVE VINYL FLOOR TILE AND ASSOCIATED BASE AS REQUIRED. GRIND OFF ADHESIVE AS REQUIRED FOR NEW FLOORING IN ENTIRE ROOM OR TO EXTENTS SHOWN ON PLAN. PROTECT EXISTING WALLS AND BASE. ANY DAMAGE TO WALLS FROM BASE REMOVAL TO BE PATCHED AT CONTRACTOR'S EXPENSE. PREP AREA FOR NEW FLOOR FINISH.
11 REMOVE GYP BD STUD WALL TO EXTENTS SHOWN OR AS REQUIRED FOR NEW OPENING. COORDINATE WITH FLOOR PLANS. PATCH AND PREP WALLS FOR NEW FINISH.
12 REMOVE LOCKERS AS REQUIRED FOR NEW WORK. SALVAGE AND TURN OVER TO OWNER. COORDINATE WITH PLANS & ELEVATIONS
13 REMOVE AND SALVAGE FOR REINSTALLATION ACT CEILING TILE AND CEILING MOUNTED MECH AND ELEC FIXTURES, ACCESSORIES, ETC. AS REQUIRED FOR NEW WORK. PREP FOR NEW WORK. SEE MECH AND ELEC.
14 REMOVE TECHNOLOGY & TURN OVER TO OWNER. PATCH WALL AND PREP AREA FOR NEW WALL FINISH AS REQUIRED.
15 REMOVE PLUMBING FIXTURE AS OCCURS. COORDINATE WITH MECH. PATCH & PREP WALLS AND FLOOR AS REQUIRED FOR NEW WORK.
16 REMOVE PLAM SHELVING AND BRACKETS. PATCH AND PREP WALLS FOR NEW FINISH.
17 REMOVE LIGHT FIXTURES AS REQUIRED FOR NEW WORK. COORDINATE WITH ELECTRICAL AND RCPS.
18 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR SLAB OF AREA INDICATED BY HATCH. TO EXTENTS SHOWN OR AS REQUIRED FOR MECHANICAL DEMOLITION, OR NEW STRUCTURE, MECH/ELEC PIPING, NEW CONDUIT, ETC. COORDINATE EXTENTS AND LOCATIONS WITH FLOOR PLANS, STRUCTURAL, MECH, AND ELEC.
19 REMOVE CORNER GUARD
20 REMOVE AND SALVAGE WALL MOUNTED SHELVING AND BRACKETS, AND COAT RACKS. TURN OVER TO OWNER.

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GENERAL NOTES:

1. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & ENGINEER.
2. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
3. CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER AND ENGINEER.
4. CHANGES TO APPROVED PLANS ON PUBLIC PROPERTY SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL FROM THE RESPECTIVE PUBLIC ENTITY.
5. ALL SITE AND RIGHT-OF-WAY CONSTRUCTION SHALL MEET CITY OF FARGO STANDARD SPECIFICATIONS LATEST REVISION. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN.
6. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING & VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION & IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL ONE-CALL SYSTEM AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
7. ANY WORK ON EXISTING CITY OWNED UTILITIES SHALL REQUIRE NOTIFICATION TO THE CITY BY THE CONTRACTOR 24 HOURS PRIOR TO COMMENCING WORK.
8. THE CONTRACTOR SHALL COMPLY WITH ALL RULES & REGULATIONS OF FEDERAL, STATE, COUNTY, & LOCAL AUTHORITIES.
9. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
10. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED, ALL BONDS ARE POSTED, ALL FEES ARE PAID AND PROOF OF INSURANCE IS PROVIDED PRIOR TO THE START OF THE PROJECT.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY AND RELATED COSTS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN MEASUREMENTS AND QUANTITIES. ENGINEER QUANTITIES ARE ESTIMATES ONLY.
13. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND UTILITIES BY THE APPROPRIATE UTILITY ENTITY. PROPER COORDINATION WITH THE RESPECTIVE UTILITY ENTITIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY ENTITY STANDARDS FOR MATERIAL AND METHODS ARE MET. THE GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL SUBCONTRACTORS TO AVOID CONFLICTS.
14. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
15. THE CONTRACTOR SHALL PROVIDE TESTING, INSPECTIONS, AS-BUILT DRAWINGS, CERTIFICATIONS AND ANY OTHER PROCEDURES OR DOCUMENTATION REQUIRED BY THE GOVERNING AGENCIES TO CLOSE OUT THE PROJECT.
16. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS SIDEWALKS, LANDSCAPED ARES, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER/JURISDICTIONAL AUTHORITY.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STRIPPING, RUBBISH, TRASH, DEBRIS, ORGANIC, AND EXCESS EXCAVATED MATERIAL IN A LAWFUL MANNER.
18. CONTRACTOR SHALL REFERENCE THE PROJECT GEOTECHNICAL REPORT AVAILABLE IN THE PROJECT MANUAL AND COMPLY WITH ALL REPORT REQUIREMENTS. IF A CONFLICT ARISES BETWEEN THE GEOTECHNICAL REPORT AND CIVIL DOCUMENTS, THE GEOTECHNICAL REPORT SHALL GOVERN.
19. FOR THE PURPOSES OF CONSTRUCTION SURVEY, ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH STRUCTURAL AND ARCHITECTURAL PLANS.
20. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL APPLICABLE PRODUCTS AND MATERIALS BEING USED FOR CONSTRUCTION.
21. ALL UNDERGROUND WORK SHALL BE COMPLETED PRIOR TO COMPLETION OF SUBGRADE PREPARATION AND START OF ROADWAY WORK INCLUDING BUT NOT LIMITED TO INSTALLATION OF FABRIC, GRAVEL, PAVING, ETC.
22. CONTRACTOR IS RESPONSIBLE FOR SECURING HAUL ROAD AGREEMENTS, IF NECESSARY. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO HAUL ROADS AS WELL AS RESOLVING ANY CLAIMS OF DAMAGE.
23. ELECTRONIC FILES ARE AVAILABLE FROM ENGINEER UPON REQUEST AND COMPLETION OF WAIVER FORM. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PREPARING DATA FOR EQUIPMENT USE ABOVE AND BEYOND SUBMITTAL OF FINISHED GROUND SURFACE. THIS DATA IS CONSIDERED SUPPLEMENTAL AND IS NOT CONSIDERED PART OF THE CONTRACT DOCUMENTS.

GRADING NOTES:

1. LOCATION AND TOP ELEVATIONS OF INLETS AND STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ANY CHANGES IN AS-BUILT DRAWINGS.
2. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO CLASSIFIED AS MH, CH, OH, OL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT GEOTECHNICAL ENGINEER. THE SITE ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AND DISPOSING OF EXCESS MATERIAL AS REQUIRED TO MEET PLAN GRADES. OFF SITE BORROW SHALL MEET ALL REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT (IF AVAILABLE) OR PER NDDOT STANDARD SPECIFICATIONS.
4. ANY FARMING / SPREADING / MANIPULATING / ADDING OF WATER / ETC. OF EXCAVATED MATERIAL TO BRING MOISTURE CONTENT TO WITHIN SPECIFICATIONS OR TO A POINT WHERE SPECIFIED DENSITY CAN BE MAINTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
5. COMPACTION LIFTS AND TESTING SHALL BE PER NDDOT REQUIREMENTS IN TRENCHING, SUB-BASE, BASE, AND PAVING MATERIALS. SUB-BASE LIFTS SHALL NOT EXCEED 12". BASE LIFTS SHALL NOT EXCEED 6".
6. CONTRACTOR SHALL UNIFORMLY GRADE BEHIND CURBS TO MATCH EXISTING GRADES AT PROPERTY LINES.
7. GRADE TO ENSURE POSITIVE DRAINAGE. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.
8. ALL LANDSCAPE ISLANDS SHALL BE GRADED TO DRAIN OVER CURBS. UNLESS NOTED OTHERWISE.
9. EXCAVATION CONTRACTOR SHALL TAKE INTO ACCOUNT THAT ADDITIONAL CLAY WILL BE GENERATED DUE TO THE INSTALLATION OF THE PIPES AND BEDDING MATERIAL THAT WAS NOT ACCOUNTED FOR IN THE ESTIMATED QUANTITIES. THIS MAY IMPACT IMPORT/EXPORT QUANTITIES. CONTRACTOR SHALL BID / CONSTRUCT ACCORDINGLY.
10. CONTRACTOR SHALL PERFORM PROOF ROLL ON SUBGRADE PRIOR TO PLACING AGGREGATE BASE, AND ON AGGREGATE BASE MATERIAL PRIOR TO PAVING.

PAVING NOTES:

1. ALL PAVEMENT SECTION MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NDDOT.
2. AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF NDDOT.
3. CONCRETE FOR FLAT WORK SHALL BE A BATCH PLANT MIX MEETING THE REQUIREMENTS OF THE NDDOT STANDARD SPECIFICATIONS. (MINIMUM 4,000 PSI)
4. HOT BITUMINOUS PAVEMENT SHALL BE A PLANT MIX MEETING THE REQUIREMENTS OF THE NDDOT STANDARD SPECIFICATIONS (LATEST EDITION).
5. PAINTED PARKING STRIPING SHALL BE WATER BASED 4" IN WIDTH YELLOW STRIPES AND BE LOCATED AS SHOWN ON THE PLANS. ACCESSIBLE PARKING STRIPING SHALL BE BLUE AND PER ADA REQUIREMENTS. GORE AREA LINES SHALL BE PAINTED AT 45 DEGREES AND SHALL HAVE A SPACING OF 3'. CURE COMPOUND SHALL BE REMOVED BY SANDBLASTING, GRINDING, OR OTHER APPROVED METHOD BEFORE INSTALLATION OF PAVEMENT MARKINGS ON CONCRETE TO ENSURE PROPER ADHESION OF THE PAINT. ALL WORK SHALL BE IN ACCORDANCE WITH THE NDDOT REQUIREMENTS.
6. THE CONTRACTOR SHALL SUBMIT A JOINTING PLAN FOR CONCRETE PAVEMENT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. IF NO JOINTING PLAN IS SUBMITTED, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR JOINTING LAYOUT.
7. CONTRACTOR SHALL ALLOW NEW BITUMINOUS PAVEMENT TO COOL TO A TEMPERATURE BELOW 125°F AND TURE FOR A PERIOD OF 72 HOURS BEFORE APPLYING PERMANENT PAVEMENT MARKINGS. APPLY WATER BASED PAINT WHEN THE AIR AND PAVEMENT SURFACE TEMPERATURES ARE 45°F OR WARMER.
8. WHEN PAVING ADJACENT TO EXISTING ASPHALT PAVEMENT, CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT AND APPLY TACK COAT FOR CLEAN EDGE TO PAVE AGAINST.
9. ALL ADA DOME PANELS SHALL BE CAST IRON.

STORM SEWER & DRAINAGE NOTES:

1. CMP PIPE SHALL BE SPIRAL RIB 16 GA POLYMERIC COATED OR 12 GA ALUMINIZED.
2. HDPE STORM SEWER SHALL BE ADS N12 OR PRINSCO GOLDFLO OR APPROVED EQUAL.
3. REINFORCED CONCRETE PIPE SHALL MEET NDDOT REQUIREMENTS.
4. POLYPROPYLENE (PP) STORM SEWER SHALL BE ADS HP STORM "GRAY PIPE" OR PRINSCO GOLDPRO OR APPROVED EQUAL.
5. INVERTS SHOWN ON PLAN DRAWINGS ARE PIPE INVERTS UNLESS NOTED OTHERWISE.
6. ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF THE OWNER AND THE PROJECT ENGINEER.
7. STORM SEWER NOT BURIED AT LEAST 6' BELOW FINISH GRADE IS SUBJECT TO FREEZING. HEAT TAPE MAY BE INSTALLED TO MITIGATE FUTURE MAINTENANCE.
8. ANNOTATED LENGTH OF CULVERT INCLUDES LENGTH OF FLARED END SECTION. FOR CLARIFICATION: ANNOTATED LENGTH = PIPE LENGTH + FES LENGTH.

SANITARY SEWER NOTES:

1. LOCATIONS AND TOP ELEVATIONS OF STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ALL CHANGES ON AS-BUILT DRAWINGS.
2. CONSTRUCTION OF THE SANITARY SEWER SYSTEM AND CONNECTION TO THE EXISTING SEWER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF THE CITY.
3. PVC SCHEDULE 40 SANITARY SEWER SHALL MEET ASTM D1785, D2665, F891, F1488, OR F1760 WITH APPROVED FITTINGS. SOLVENT WELDED JOINTS MUST USE ASTM F656 PURPLE PRIMER AND ASTM D2564 CEMENT.
4. PVC SDR-35 AND SDR-26 SANITARY SEWER SHALL MEET ASTM D3034.
5. CONTRACTOR SHALL CONFIRM LOCATION AND INVERT ELEVATION OF SEWER TIE-IN POINT PRIOR TO ANY SITE OR BUILDING CONSTRUCTION.
6. ROOF DRAINS, FOUNDATION DRAINS OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
7. DEFLECTION TESTS SHALL BE PERFORMED ON ALL SANITARY SEWER MAINS. TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF A PIPE EXCEEDS THE MAXIMUM DEFLECTION, IT SHALL BE REMOVED AND CORRECTED. THE RIGID BALL OR MANDREL USED SHALL HAVE A DIAMETER OF NOT LESS THAN 95% OF THE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER (WHATEVER IS SPECIFIED IN THE ASTM SPECIFICATION). THE TEST SHALL BE PERFORMED WITHOUT THE USE OF MECHANICAL PULLING DEVICES.
8. PUBLIC SANITARY SEWER MAINS SHALL BE PRESSURE TESTED PER ASTM F-1417 (OR APPROVED EQUAL) IN THE PRESENCE OF THE ENGINEER.

WATER NOTES:

1. CONSTRUCTION OF THE WATER SYSTEM AND CONNECTION TO THE EXISTING WATER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF THE CITY.
2. INSTALLATION OF THE PRIVATE FIRE SERVICE MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH NFPA 24 AND THE REQUIREMENTS OF THE CITY.
3. COPPER WATER PIPE AND FITTINGS SHALL BE TYPE "K" COPPER.
4. DUCTILE IRON WATER PIPE AND FITTINGS SHALL BE CLASS 350, AS SPECIFIED BY AWWA C150 FOR LAYING CONDITION TYPE 2. PIPE JOINTS AND FITTINGS SHALL BE RESTRAINED.
5. PVC WATER PIPE AND FITTINGS 4" AND LARGER SHALL MEET AWWA C-900.
6. ALL DUCTILE IRON FITTINGS, GATE VALVES, AND BURIED PORTIONS OF GATE VALVE BOXES, CURB STOPS AND BOXES, AND HYDRANTS SHALL BE WRAPPED IN AN 8 MIL POLYETHYLENE PLASTIC AND TAPED WITH A POLYETHYLENE (NOT DUCT TAPE) TAPE.
7. ALL WATER LINES SHALL BE BELOW THE FROST LINE 7.5' FROM FINISH GRADE TO TOP OF PIPE.
8. WATER METERS, BOXES, VAULTS AND BFP'S SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANY. CONTRACTOR SHALL CONFIRM ALL ITEMS AGAINST CURRENT LIST OF APPROVED DEVICES PRIOR TO ORDERING.
9. WATER LINE CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE EQUAL DISTANCE AND AS FAR FROM THE SEWER AS POSSIBLE, IF WATER CROSSES BELOW SANITARY SEWERS, THE SEWER MUST BE WATER MAIN MATERIAL FOR THE SPAN.
10. SITE CONTRACTOR IS RESPONSIBLE FOR MAKING TIE-IN TO WATER AND SANITARY SEWER CONNECTIONS AT BUILDING. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR EXACT LOCATIONS FOR BUILDING STUB OUTS AND FLOOR DRAINS.
11. CONTRACTOR SHALL TEST THE WATER MAIN IN THE PRESENCE OF THE ENGINEER USING AWWA C605 CRITERIA. PIPE SHALL BE BE PRESSURIZED TO 150 PSI FOR TWO HOURS WITH 0 PSI ALLOWABLE PRESSURE LOSS. ALL WATER SERVICE CURB STOPS ALONG THE MAIN BEING TESTED SHALL BE OPEN DURING THE TEST. CONTRACTOR IS RESPONSIBLE FOR CAPPING THE END OF WATER SERVICES WITH A SUITABLE PRESSURE RATED PLUG.
12. ALL WATER MAINS, FITTINGS, AND APPURTENANCES SHALL BE CHLORINATED AND TESTED IN ACCORDANCE WITH AWWA C651, AWWA 652, AND AS SET FORTH BY THE LATEST REVISION OF THE CITY OF FARGO SPECIFICATIONS. CHLORINATED WATER SHALL REMAIN IN THE PIPE LINE FOR AT LEAST 24 HOURS AND SHALL HAVE A RESIDUAL CHLORINE CONTENT OF AT LEAST 25 PARTS PER MILLION AT THAT TIME. A WATER SAMPLE WILL BE TAKEN AFTER THE MAIN IS FLUSHED AND SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED TO THE WATERMAIN. CHLORINE DISINFECTION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE PIPE.
13. ALL PRODUCTS (TREATMENT CHEMICALS AND MATERIALS) THAT MAY COME INTO CONTACT WITH WATER INTENDED FOR USE IN A PUBLIC WATER SYSTEM SHALL MEET ANSI/NSF INTERNATIONAL STANDARDS 60 & 61, AS APPROPRIATE.
14. FOR BACTERIOLOGICAL TEST, TWO (2) SETS OF SAMPLES SHALL BE COLLECTED AT LEAST 16 HOURS APART, OR TWO (2) SETS SHALL BE COLLECTED 15 MINUTES APART AFTER AT LEAST A 16-HOUR REST SETS SHALL BE COLLECTED EVERY 1,200 FT. OF NEW MAIN, PLUS ONE SET FROM THE END OF THE WATER MAIN AND AT LEAST ONE FROM EACH BRANCH GREATER THAN ONE (1) PIPE LENGTH. BACTERIOLOGICAL TEST MUST BE ANALYZED BY A NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY CERTIFIED LAB.

DEMOLITION NOTES

1. CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAW CUT IN FULL SECTIONS.
2. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT FOR REMOVAL. PAVEMENT SHALL BE REMOVED IN FULL SECTIONS.
3. LIMITS OF STREET PATCHING AND PATCHING REQUIREMENTS SHALL BE VERIFIED WITH THE CITY.

TEMPORARY TRAFFIC CONTROL NOTES:

1. EXCAVATION OR OTHER WORK IN THE RIGHT-OF-WAY SHALL REQUIRE A TRAFFIC CONTROL PLAN THAT MEETS ALL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR ANY NECESSARY ROAD CLOSURES.
2. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) AND ANY NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS. THE CONTRACTOR SHALL IDENTIFY THE TCS AND PROVIDE PROOF OF CERTIFICATION AT A PRECONSTRUCTION MEETING.
3. UNLESS A TEMPORARY TRAFFIC CONTROL PLAN IS INCLUDED WITH THE DESIGN DOCUMENTS, CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED TRAFFIC CONTROL PLAN TO THE ENGINEER FOR REVIEW.
4. CONTRACTOR IS RESPONSIBLE TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE MUTCD, STANDARD HIGHWAY SIGNS AND MARKINGS BOOK PUBLISHED BY THE FHWA, AND LOCAL REGULATIONS.
5. CHANGES TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER, ENGINEER, AND PERMITTING AUTHORITY IF APPLICABLE.

LEGEND

EX. LIGHT POLE	NEW PROPERTY PIN SET
NEW LIGHT POLE	EX. PROPERTY PIN FOUND
EX. POWER POLE	RIGHT OF WAY MARKER
EX. GUY-LINE	PROJECT BENCHMARK
EX. CLEAN OUT	BORING LOCATION
NEW CLEAN OUT	HIGH WATER LINE
EX. SANITARY MANHOLE	PARKING COUNT
NEW SANITARY MANHOLE	DOWN SPOUT
EX. STORM MANHOLE	BOLLARD
NEW STORM MANHOLE	EX. FENCE
EX. STORM CATCH BASIN	NEW FENCE
NEW STORM CATCH BASIN	EX. GUARDRAIL
EX. CULVERT FLARED END	SET BACK
NEW CULVERT FLARED END	EX. EASEMENT
DRAINAGE FLOW DIRECTION	NEW EASEMENT
EX. GATE VALVE	EX. PROPERTY LINE
NEW GATE VALVE	NEW ROW/PROPERTY LINE
EX. WATERLINE FITTINGS	PROPERTY BOUNDARY LINE
NEW WATERLINE FITTINGS	EX. CURB
NEW TAPPING SLEEVE & VALVE	NEW CURB(INFLOW)
EX. HYDRANT	NEW CURB(OUTFLOW)
NEW HYDRANT & VALVE	EX. RETAINING WALL
PIPE INSULATION	NEW RETAINING WALL
EX. SIGN	EX. SANITARY SEWER
NEW SIGN	NEW SANITARY SEWER
EX. STUMP	EX. SANITARY FORCE MAIN
EX. SHRUB	NEW SANITARY FORCE MAIN
EX. DECIDUOUS TREE	EX. WATER
EX. CONIFEROUS TREE	NEW WATER
EX. ELECTRICAL TRANSFORMER	EX. STORM SEWER
EX. UTILITY PEDISTAL	NEW STORM SEWER
ELEC MANHOLE EXIST	EX. DRAIN TILE
	NEW DRAIN TILE
	EX. STORM FORCE MAIN
	NEW STORM FORCE MAIN
	SILT FENCE
	EX. BUILDING FOOTPRINT
	NEW BUILDING FOOTPRINT
	EX. FIBER OPTIC
	EX. GAS LINE
	NEW GAS LINE
	EX. ELECTRIC
	NEW ELECTRIC
	EX. OVERHEAD ELECTRIC
	EX. CABLE TV
	EX. TELEPHONE
	EX. CONTOUR
	NEW CONTOUR
	GRADE BREAK/FLOW PATH
	CENTER LINE/SECTION LINE
	NEW TRACKS
	EX. TRACKS
	EX. ASPHALT PAVEMENT
	NEW ASPHALT PAVEMENT
	EX. CONCRETE PAVEMENT
	NEW CONCRETE PAVEMENT
	EX. GRAVEL SURFACE
	NEW GRAVEL SURFACE
	EX. SIDEWALK/FLATWORK
	NEW SIDEWALK/FLATWORK
	ACCESSIBLE (ADA) RAMP WITH TRUNCATED DOME PANEL
	STRIPING CROSSWALK
	STRIPING ADA ACCESSIBLE
	STRIPING TURN ARROWS
	SEEDING & HYDROMULCH
	SEEDING & EROSION CONTROL BLANKET

ABBREVIATIONS

ADJ	ADJACENT
ALT	ALTERNATE
ARCH	ARCHITECT
ACP	ASBESTOS CEMENT PIPE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCHMARK
B.O.	BY OWNER/BY OTHERS
B.O.P.	BEGINNING OF PROJECT
BV	BUTTERFLY VALVE
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
C	CIVIL
B.P.	CAST IRON
CIP	CAST IRON PIPE
CU	COPPER
CMP	CORRUGATED METAL PIPE
CJ	CONTROL JOINT
CONC	CONCRETE
CF	CUBIC FEET
CS	CURB STOP
C.O.	CLEAN OUT
CNTR	CENTER
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CY	CUBIC YARD
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DEMO	DEMOLITION
DTL	DETAIL
DIM	DIMENSION
DOM	DOMESTIC
D.S.	DOWN SPOUT
DWG	DRAWING
DWL	DOWEL
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
ENCL	ENCLOSURE
E.O.P.	END OF PROJECT
E.J.	EXPANSION JOINT
EX.	EXISTING
EX.A.	EACH WAY
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
FD	FIRE DEPARTMENT
FFE	FIRST FLOOR ELEVATION
FO	FIBER OPTICS
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
GALV	GALVANIZED
GAL	GALLON
GRAN	GRANULAR
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HB	HOSE BIB
HDCP	HANDICAPPED
HYD	HYDRANT
I	INLET
K	CURVATURE VALUE
M	MECHANICAL
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
M.J.	MECHANICAL JOINT
MISC.	MISCELLANEOUS
NC	NON-CORROSIVE
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
OCEW	ON CENTER EACH WAY
OC	ON CENTER
OHE	OVERHEAD ELECTRIC
P.C.	PRECAST CONCRETE
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
PVIS	POINT OF VERTICAL INTERSECTION STATION
PREFAB	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
PP	POWER POLE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
RIM	RIM OF INLET OR CASTING
ROW	RIGHT OF WAY
SAN	SANITARY
SS	SANITARY SEWER
ST	STORM
STD	STANDARD
SB	SOIL BORING
STRUCT	STRUCTURAL
SF	SQUARE FEET
SCH	SCHEDULE
SW	SIDEWALK
T	TELEPHONE
TYP	TYPICAL
UNEX	UN-EXCAVATED
UE	UTILITY EASEMENT
UGE	UNDERGROUND ELECTRIC
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
V	VERIFY
VCL	VERTICAL CURVE LENGTH
VOL	VOLUME
VCP	VITRIFIED CLAY PIPE
W/	WITH
W/O	WITH OUT
WTH	WIDTH
W	WATER

ESTIMATED DEMOLITION QUANTITIES

ITEM	QUANTITY	UNIT
REMOVE EX. CURB & GUTTER	164	LF
REMOVE EX. SIDEWALK	75	SY
REMOVE EX. ASPHALT	3,014	SY
REMOVE EX. CONCRETE	64	SY
REMOVE EX. GRAVEL	1,811	SY
REMOVE EX. FENCE	1,125	LF
REMOVE & REPLACE EX. FENCE	20	LF
REMOVE EX. TREES	10	EA
REMOVE EX. STORM INLET	1	EA
ABANDON EX. STORM PIPE	1	LS
REMOVE EX. LANDSCAPING	458	SF
REMOVE & RELOCATE EX. PLAYGROUND BORDER & MULCH	1	LS
REMOVE EX. GOAL POST	2	EA
REMOVE/ABANDON EX. UGE	1	LS
REMOVE/ABANDON EX. FO	1	LS

ESTIMATED SITE QUANTITIES

ITEM	QUANTITY	UNIT
CURB & GUTTER - HIGHBACK	1 2,012	LF
CURB & GUTTER - DROP	60	LF
CONCRETE PAVEMENT - 6"	228	SY
ASPHALT PAVEMENT - 5"	1 8,167	SY
CONCRETE SIDEWALK - 4"	1,172	SY
CONCRETE SIDEWALK - 4" - ALT 6A	1 151	SY
CONCRETE SIDEWALK - 4" - ALT 6B	132	SY
THICKENED EDGE CONCRETE SIDEWALK	291	LF
PAVEMENT MARKING - PAINT	4,812	LF
PAVEMENT MARKING - ADA SYMBOL	8	EA
ADA PARKING SIGN	4	EA
ADA PARKING SIGN - VAN ACCESSIBLE	4	EA
1 "DO NOT ENTER" SIGN	1	EA
SEGMENTAL BLOCK RETAINING WALL	101	LF
BOLLARD	6	EA
REMOVABLE BOLLARD	2	EA
HIGHWAY GUARDRAIL	1	LS
TRANSFORMER PAD	1	EA
FLAG POLE	3	EA
GOAL POST	2	EA
NAILER BOARD	1,471	LF
TRACK PROTECTION BRIDGE	1	LS

ESTIMATED SANITARY QUANTITIES

ITEM	QUANTITY	UNIT
SDR-35 PIPE - 6" - OPEN CUT	420	LF
DR-17 PIPE - 6" - BORE	394	EA
MANHOLE	3	EA
CONNECT TO EX. MAIN	1	EA

ESTIMATED WATER QUANTITIES

ITEM	QUANTITY	UNIT
C-900 PIPE - 4"	10	LF
C-900 PIPE - 6"	853	LF
GATE VALVE - 4"	1	EA
GATE VALVE - 6"	4	EA
HYDRANT	2	EA
LIVE TAP EX. MAIN	1	EA

ESTIMATED STORM QUANTITIES

ITEM	QUANTITY	UNIT
FLAT DRAIN TILE	4,806	LF
HDPE PIPE - 12"	699	LF
ALTERNATE 13 - HDPE PIPE - 12"	61	LF
PERFORATED HDPE PIPE W/ GEOSOCK - 12"	553	LF
HDPE PIPE - 15"	211	LF
HDPE PIPE - 18"	26	LF
HDPE PIPE - 24"	339	LF
SCHD 40 PIPE - 16'	92	LF
PERFORATED HDPE PIPE W/ GEOSOCK - 36"	387	LF
RCP PIPE - 36" - JACK & BORE	79	LF
12" NYLO INLET	2	EA
SINGLE BOX INLET	3	EA
INLET - 27"	3	EA
ALTERNATE 13 - INLET 27"	1	EA
MANHOLE/INLET - 48"	3	EA
MANHOLE/INLET - 60"	2	EA
INLET - 72"	1	EA
MANHOLE W/ WEIR PLATE - 84"	1	EA
OUTLET STRUCTURE - 60"	1	EA
HYDRODYNAMIC SEPARATOR	1	EA
INLINE CLEANOUT - 6"	2	EA
RAISE EX. CASTING	2	EA
CONNECT TO EX. STRUCTURE	2	EA

ESTIMATED GRADING QUANTITIES

ITEM	QUANTITY	UNIT
TOPSOIL STRIPPING - 6"	1 5,239	CY
TOPSOIL SPREADING - 6"	1,329	CY
COMMON EXCAVATION	13,946	CY
EXPORT	1,201	CY
SUBGRADE PREPARATION	20,043	SY
GEOTEXTILE FABRIC	9,052	SY
AGGREGATE BASE	1,792	CY
FINISHING STONE	611	CY
BASE STONE	8,548	CY

1 ADDENDUM 1
- REVISED QUANTITIES

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(701) 772.4266 OFFICE



- REMOVAL AREAS
- CONTRACTOR DETERMINED REMOVAL AREAS

NOTES:

1. EXISTING CONDITIONS SHOWN ARE BASED ON OBSERVATIONS AT THE TIME THE SURVEY WAS COMPLETED. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE IN ORDER TO BID APPROPRIATELY. QUANTITIES SHOWN AS ESTIMATES ONLY.
2. CONTRACTOR SHALL VERIFY ELEVATIONS OF ALL EXISTING UTILITY TIE-INS PRIOR TO CONSTRUCTION.
3. DEPTH OF EXISTING DRY UTILITIES ARE UNKNOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR CROSSINGS AND IMPACTS.
4. CONTRACTOR SHALL SAW CUT AND REPLACE ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT AMOUNT OF EXISTING SIDEWALK AND ROADWAY TO BE REMOVED AND REPLACED NECESSARY TO CONNECT THE PROPOSED UTILITIES TO THE EXISTING PIPES, ACCORDING TO THE CONTRACTOR'S AVAILABLE EQUIPMENT AND ABILITY. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QUANTITIES AS IT RELATES TO THE SIZE OF THE NECESSARY REMOVAL AND REPLACEMENT AREA FOR THE PROPOSED WORK. CONTRACTOR SHALL MATCH EXISTING SECTION AND GRADE FOR REPLACEMENT OF PAVEMENT. BID PRICE SHALL BE FOR BOTH REMOVAL AND REPLACEMENT PER CITY SPECIFICATIONS.
6. EXCAVATION OR OTHER WORK IN THE RIGHT-OF-WAY SHALL REQUIRE A TRAFFIC CONTROL PLAN THAT MEETS ALL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR ANY NECESSARY ROAD CLOSURES.
7. CONTRACTOR SHALL ABANDON EXISTING PIPE IN PLACE. CONTRACTOR SHALL FILL WITH CDF OR SAND AND CAP END OF PIPE.

1 ADDENDUM 1
- REVISED PLAYGROUND DEMO AREA
- REMOVED SWING SET REMOVAL

0 30 60

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REGISTERED PROFESSIONAL ENGINEER
TYLER TRENBEATH
PE-41570
DATE: 3/17/26
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM 1	03/17/2026

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SURVEY OVERLAY & DEMOLITION PLAN - SCHOOL

SHEET
C300



NOTES:

1. EXISTING CONDITIONS SHOWN ARE BASED ON OBSERVATIONS AT THE TIME THE SURVEY WAS COMPLETED. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE IN ORDER TO BID APPROPRIATELY. QUANTITIES SHOWN AS ESTIMATES ONLY.
2. CONTRACTOR SHALL VERIFY ELEVATIONS OF ALL EXISTING UTILITY TIE-INS PRIOR TO CONSTRUCTION.
3. DEPTH OF EXISTING DRY UTILITIES ARE UNKNOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR CROSSINGS AND IMPACTS.
4. CONTRACTOR SHALL SAW CUT AND REPLACE ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE AND THICKNESS OF THE TRACK PROTECTION BRIDGE ACCORDING TO THE CONTRACTOR'S AVAILABLE EQUIPMENT AND ABILITY. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QUANTITIES AS IT RELATES TO THE SIZE OF THE TRACK PROTECTION BRIDGE. ANY DAMAGE TO THE TRACK DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.

1 ADDENDUM 1
- REVISED BACKGROUND

0 30 60

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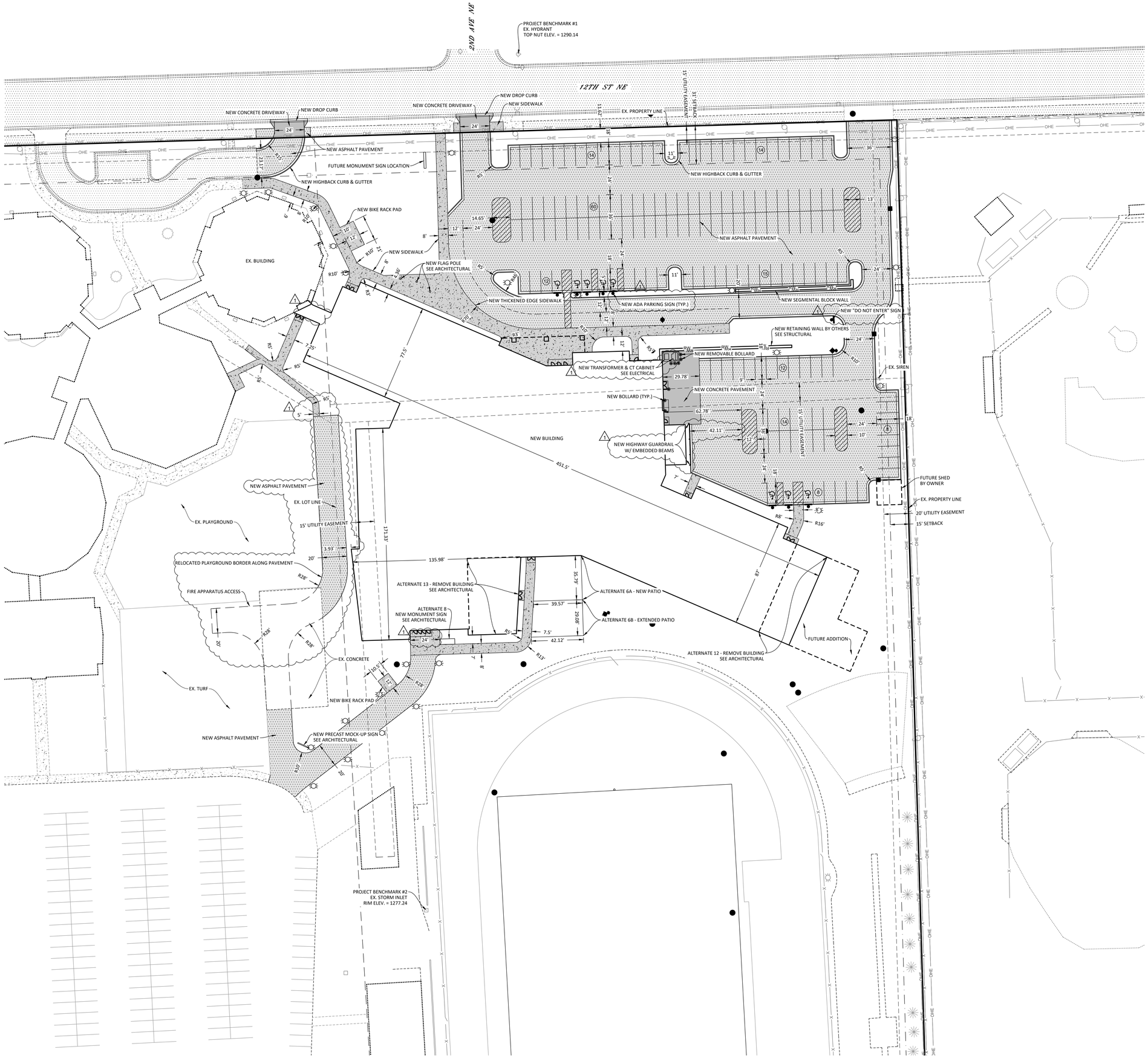
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1	ADDENDUM 1	03/17/2026

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SURVEY OVERLAY & DEMOLITION PLAN - FIELD

SHEET
C301



NOTES:

1. SEE ARCHITECTURAL FOR TRASH ENCLOSURE, BIKE RACK, HANDRAIL, SEGMENTAL BLOCK WALL AND BENCH DETAILS.
2. SEE ELECTRICAL FOR SITE LIGHTING. APPROXIMATE LOCATIONS SHOWN FOR REFERENCE ONLY. LIGHT POLES SHALL NOT BE PLACED IN UTILITY EASEMENTS.
3. TRANSFORMER PAD CONCRETE SHALL BE PER ELECTRICAL AND POWER COMPANY SPECIFICATIONS/DETAILS.
4. ALTERNATE #3 - PARKING LOT. BASE BID: ASPHALT. ALTERNATE SCOPE: CONCRETE PAVEMENT.
5. SITE IS CURRENTLY BEING REPLATTED INTO ONE LOT.
6. NEW SIDEWALK IN CITY ROW SHALL BE INSTALLED PER CITY STANDARDS. CONTRACTOR SHALL COORDINATE WITH CITY PRIOR TO POURING CONCRETE.
7. NEW HIGHWAY GUARDRAIL WITH EMBEDDED BEAMS SHALL BE 3' TALL WITH 6" X 9" FLANGE BEAMS.
8. NEW SEGMENTAL BLOCK WALL SHALL BE KEYSTONE STANDARD, ALLAN BLOCK CLASSIC, VERSA-LOK STANDARD OR APPROVED EQUAL AND INSTALLED PER MANUFACTURES SPECIFICATIONS. COORDINATE COLOR SELECTION WITH ARCHITECT.

ADDENDUM 1
- REVISED ASPHALT FIRE LANE
- REVISED BUILDING FOOTPRINT
- REVISED SOUTH DOOR SIDEWALK WIDTH
- REVISED PATIO ALTERNATE DIMENSIONS
- REVISED HIGHWAY GUARDRAIL LOCATION
- ADDED LIGHT POLE LOCATIONS
- ADDED TRANSFORMER AND CT CABINET LOCATIONS
- ADDED NOTE
- ADDED "DO NOT ENTER" SIGN
- ADDED ADA PARKING SIGN CALLOUT

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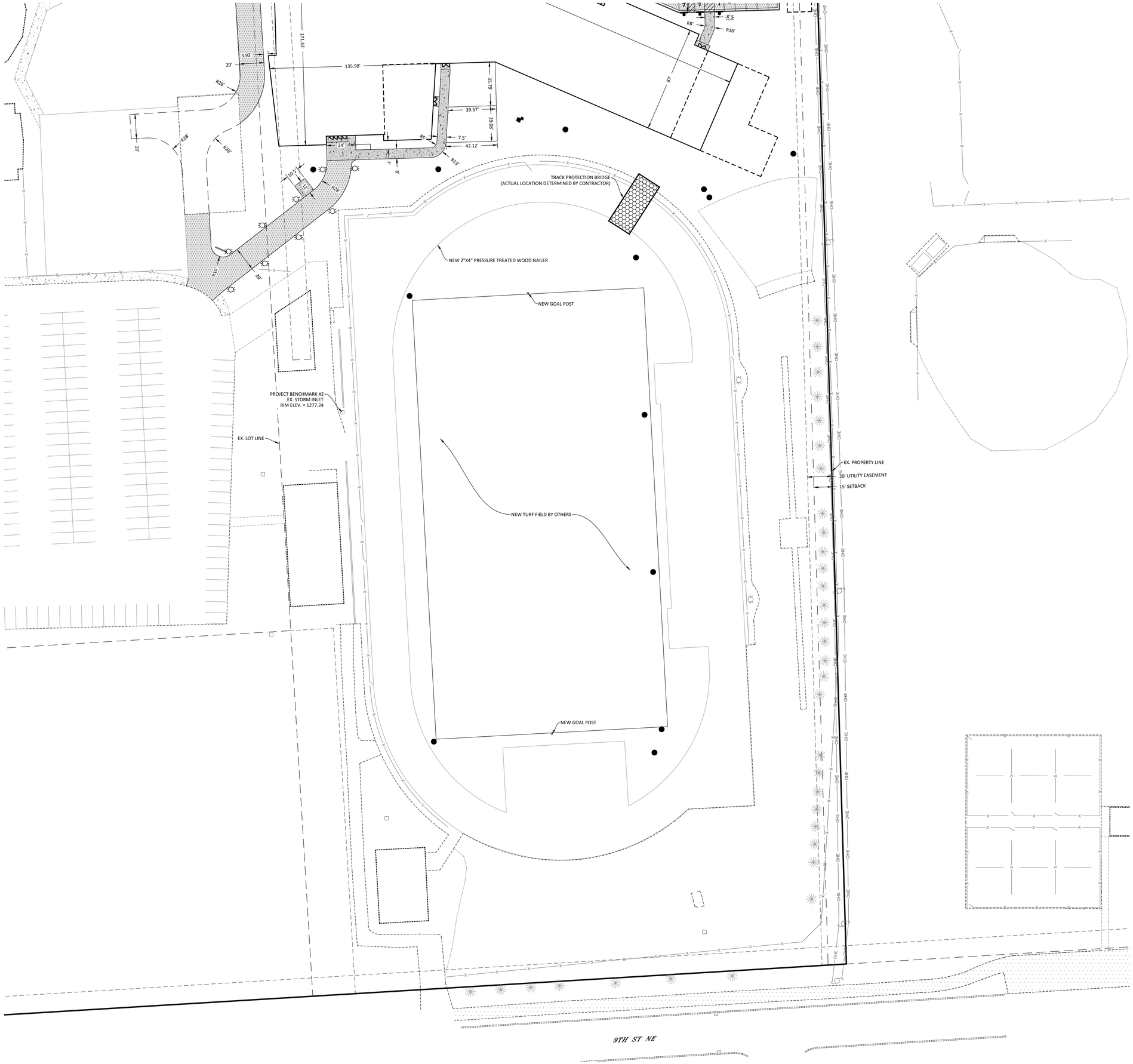
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1	ADDENDUM 1	03/17/2026

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OVERALL SITE PLAN - SCHOOL

SHEET
C400



NOTES:

1. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF GOAL POSTS WITH TURF PROVIDER.
2. NEW GOAL POSTS SHALL BE ADJUSTRIGHT GP820HS GROUND SLEEVE MOUNT BY SPORTSFIELD SPECIALTIES OR APPROVED EQUAL AND INSTALLED PER MANUFACTURES RECOMMENDATIONS.

1 ADDENDUM 1
- REVISED BACKGROUND

0 30 60

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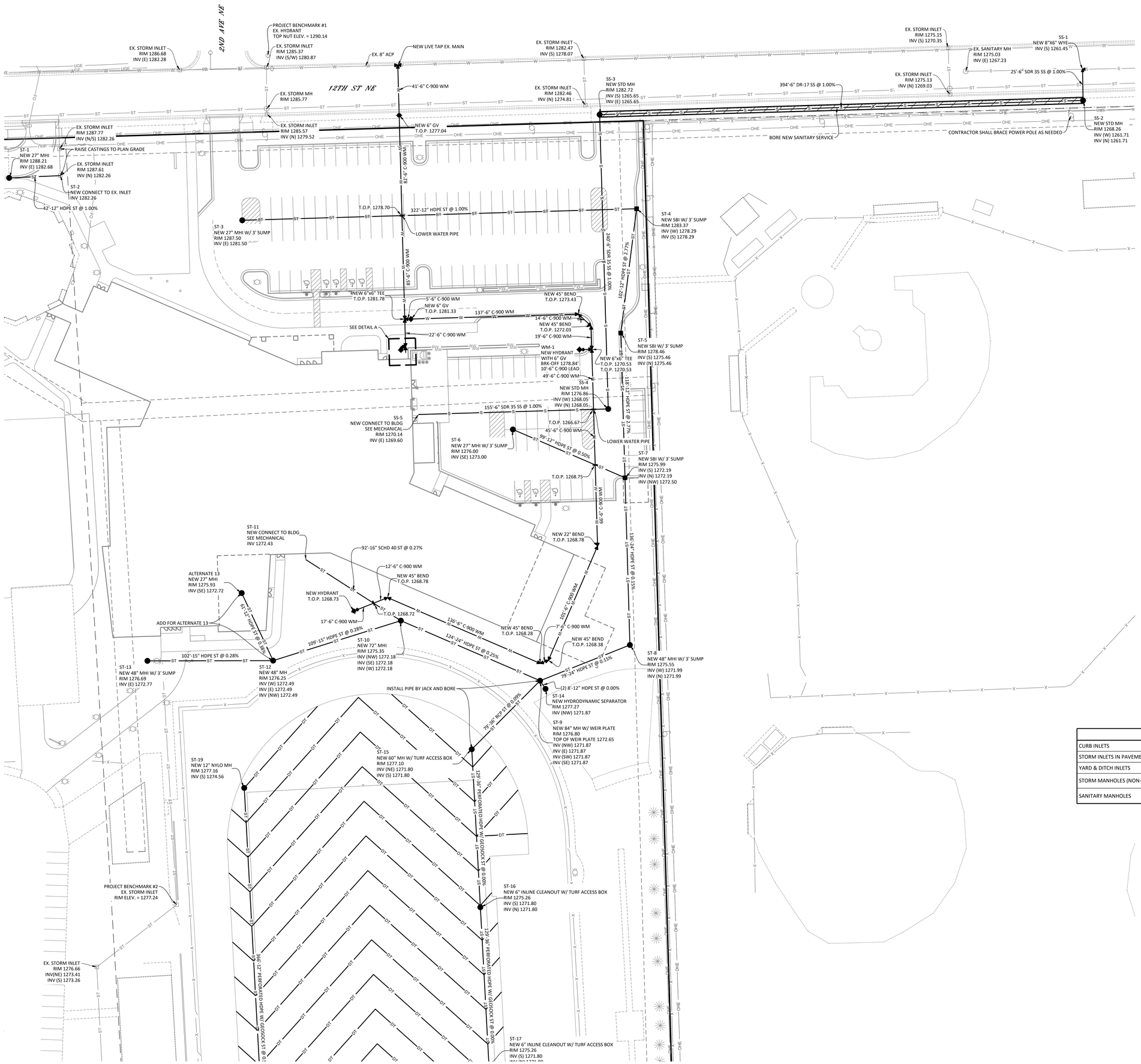
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NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM 1	03/17/2026

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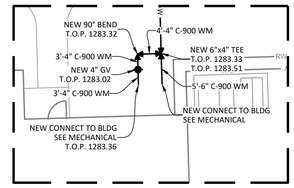
OVERALL SITE PLAN - FIELD

SHEET
C401



NOTES:

1. CONTRACTOR SHALL VERIFY INVERTS AT CONNECTION LOCATIONS PRIOR TO CONSTRUCTION.
2. ALL FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE FOR PIPE.
3. CONTRACTOR SHALL COORDINATE WITH MECHANICAL/PLUMBER FOR UTILITY CONNECTIONS AT THE BUILDING.
4. CONTRACTOR SHALL MAINTAIN A MINIMUM 18" VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATER LINE AND STORM SEWER AND WATER LINE. IF CLEARANCE IS LESS THAN 3', INSULATION IS REQUIRED.
5. CONTRACTOR SHALL MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER LINE AND STORM SEWER AND WATER LINE.
6. HDPE STORM SEWER SIZES 12" THROUGH 60" SHALL MEET REQUIREMENTS OF ASTM F2306.
7. CENTER OF STORM INLET SYMBOL REPRESENTS FLOW LINE LOW POINT LOCATION. CONTRACTOR SHALL ADJUST STRUCTURE AS NECESSARY SO THAT INLETS IN CURB LINES AND VALLEY GUTTERS PROPERTY ALIGN WITH DESIGNATED LOW POINT.
8. PIPE UNDER EXISTING TRACK SHALL BE INSTALLED BY JACK AND BORE. ANY DAMAGE TO THE TRACK DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
9. NEW HYDRODYNAMIC SEPARATOR SHALL BE ACADIA BY ADS OR APPROVED EQUAL.
10. RCP FOR JACKING SHALL BE CLASS V AND HAVE A MINIMUM 6,000 PSI COMPRESSIVE STRENGTH.
11. JACK AND BORE THE PIPE WITH EQUIPMENT THAT ENCASES THE HOLE AS THE EARTH IS REMOVED AND INSTALLS THE PIPE CONCURRENTLY. USE AN ENCASED HOLE A MAXIMUM OF 0.1' GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. DO NOT USE WATER IN THE BORING OR JACKING PROCESS. USE PROPER CUSHIONING MATERIAL BETWEEN THE JACK AND PIPE. FILL OPENINGS GREATER THAN $\frac{1}{4}$" IN WIDTH BETWEEN ADJACENT SECTIONS OF RCP WITH 1:2 CEMENT/SAND MORTAR.



A WATER SERVICE CONNECTION
1" = 10'

CASTING TABLE	
CURB INLETS	EJIW 7030-Z-2 WITH TYPE M6 GRATE OR APPROVED EQUAL
STORM INLETS IN PAVEMENT	EJIW 1020 WITH TYPE M2 GRATE OR APPROVED EQUAL
YARD & DITCH INLETS	EJIW 1020 WITH TYPE O1 BEEHIVE GRATE OR APPROVED EQUAL
STORM MANHOLES (NON-INLET)	EJIW 1020 WITH TYPE A SOLID COVER WITH "STORM" LABEL OR APPROVED EQUAL
SANITARY MANHOLES	EJIW 1020 WITH TYPE A SOLID SEALED/GASKETED COVER WITH "SANITARY" LABEL OR APPROVED EQUAL

1 ADDENDUM 1
- REVISED BACKGROUND

ICON ARCHITECTURAL GROUP
214 N 4TH STREET, SUITE 208
GRAND FORKS, ND 58203
(701) 772.4266 OFFICE
WWW.ICONARCHITECTS.COM

Valley City Public Schools - New School

210 12th Street NE
Valley City, ND 58072

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BLOOMINGTON, MN 55425
(612) 325.1494 OFFICE

REGISTERED PROFESSIONAL ENGINEER
TYLER W. TRENDA
PE-41570
DATE: 3/17/26
NORTH DAKOTA

DRAWING HISTORY

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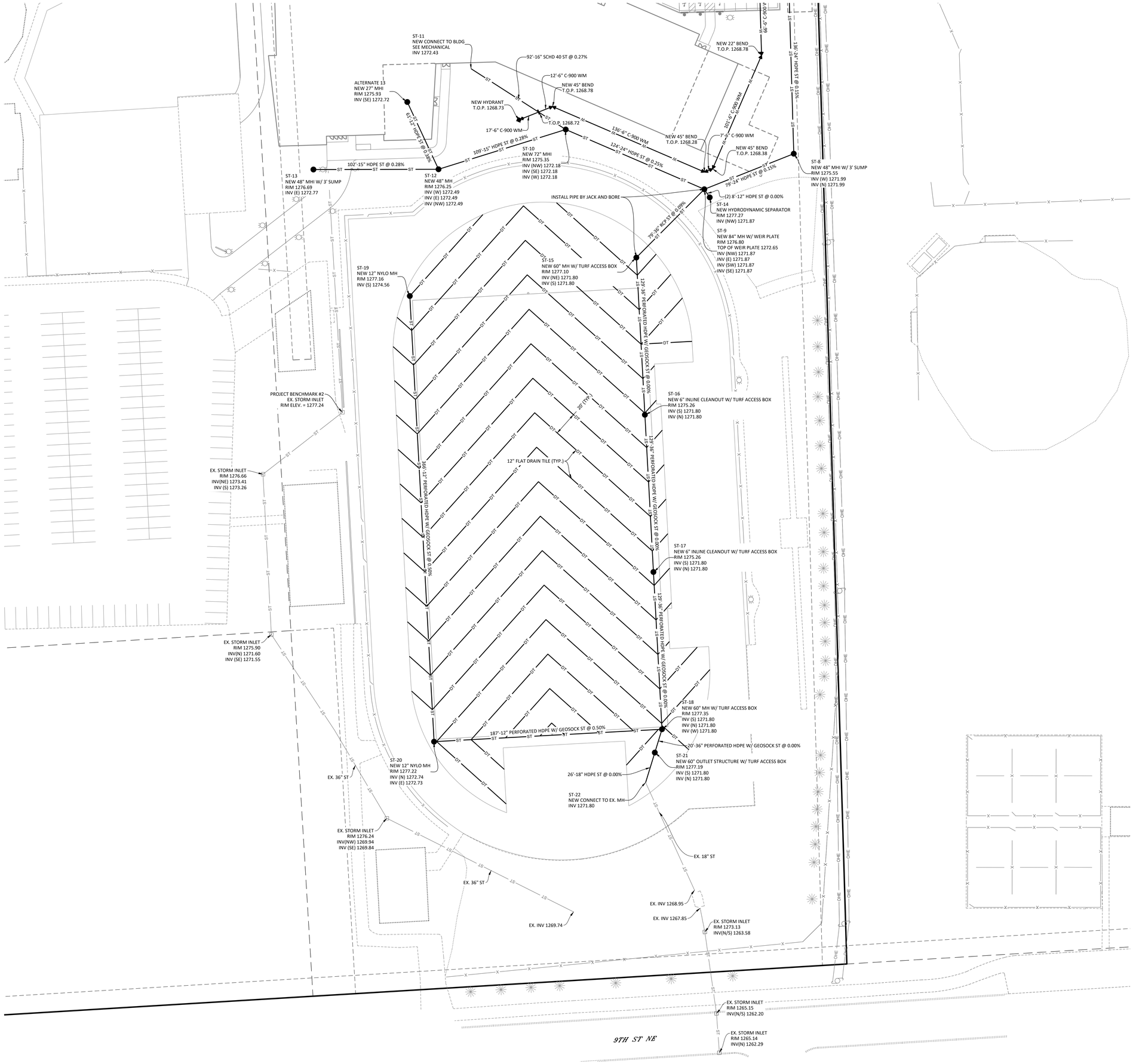
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UTILITY PLAN - SCHOOL

SHEET
C500

N
0 30 60

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NOTES:

1. CONTRACTOR SHALL VERIFY INVERTS AT CONNECTION LOCATIONS PRIOR TO CONSTRUCTION.
2. ALL FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE FOR PIPE.
3. CONTRACTOR SHALL COORDINATE WITH MECHANICAL/PLUMBER FOR UTILITY CONNECTIONS AT THE BUILDING.
4. HDPE STORM SEWER SIZES 12" THROUGH 60" SHALL MEET REQUIREMENTS OF ASTM F2306.
5. CENTER OF STORM INLET SYMBOL REPRESENTS FLOW LINE LOW POINT LOCATION. CONTRACTOR SHALL ADJUST STRUCTURE AS NECESSARY SO THAT INLETS IN CURB LINES AND VALLEY GUTTERS PROPERTY ALIGN WITH DESIGNATED LOW POINT.
6. PIPE UNDER EXISTING TRACK SHALL BE INSTALLED BY JACK AND BORE. ANY DAMAGE TO THE TRACK DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST.
7. 12" FLAT DRAIN TILE SHALL BE ADVANEDGE DRAIN TILE WITH GEOSOCK OR APPROVED EQUAL.
8. SEPARATION FABRIC IN TRENCH SHALL BE INCIDENTAL TO BID PRICE FOR PIPE.
9. RCP FOR JACKING SHALL BE CLASS V AND HAVE A MINIMUM 6,000 PSI COMPRESSIVE STRENGTH.
10. JACK AND BORE THE PIPE WITH EQUIPMENT THAT ENCASES THE HOLE AS THE EARTH IS REMOVED AND INSTALLS THE PIPE CONCURRENTLY. USE AN ENCASED HOLE A MAXIMUM OF 0.1' GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE. DO NOT USE WATER IN THE BORING OR JACKING PROCESS. USE PROPER CUSHIONING MATERIAL BETWEEN THE JACK AND PIPE. FILL OPENINGS GREATER THAN ½" IN WIDTH BETWEEN ADJACENT SECTIONS OF RCP WITH 1:2 CEMENT/SAND MORTAR.

1 ADDENDUM 1
- REVISED BACKGROUND

0 30 60

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REGISTERED PROFESSIONAL ENGINEER
TYLER W. TRENDA
PE - 415.70
DATE: 3/17/26
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
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1	ADDENDUM 1	03/17/2026

DRAWN BY: TWT JN: 25007.1

UTILITY PLAN - FIELD

SHEET
C501



NOTES:

1. ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. 6" OF TOPSOIL STRIPPING WAS ASSUMED TO ALLOW FOR CLEARING OF ALL VEGETATION FROM THE SITE.
3. CONTRACTOR SHALL OVER-EXCAVATE IN GRASS AREAS ON THE SITE TO GENERATE SUITABLE FILL. CONTRACTOR SHALL BACKFILL OVER-EXCAVATED AREAS WITH MATERIAL GENERATED FROM FOOTBALL FIELD EXCAVATION. MATERIAL GENERATED FROM FOOTBALL FIELD EXCAVATION SHALL NOT BE USED UNDER BUILDING OR PAVEMENT AREAS.
4. QUANTITIES ASSUME FILL TO 1' BELOW FFE. SEE STRUCTURAL FOR FILL REQUIREMENTS.
5. EXCESS TOPSOIL/CLAY SHALL BECOME PROPERTY OF THE CONTRACTOR AND HAULED OFFSITE PRIOR TO CLOSE OUT OF THE PROJECT.
6. FILL QUANTITY ASSUMES A FILL FACTOR OF 1.3.
7. AGGREGATE BASE SHALL BE NDDOT CLASS 5.
8. QUANTITY FOR AGGREGATE BASE IS ASSUMED TO BE IN PLACE AND COMPACTED. CONTRACTOR SHALL MAKE ADJUSTMENTS FOR LOOSE VOLUME IF NECESSARY.
9. AGGREGATE BASE AND GEOTEXTILE FABRIC QUANTITIES ASSUME THEY EXTEND 1' BEYOND EDGE OF PAVEMENT.
10. GEOTEXTILE FABRIC PANELS SHALL BE A MINIMUM OF 12' WIDE AND INSTALLED WITH A MINIMUM OVERLAP OF 18" WITH JOINTS ORIENTATED TO FOLLOW TRAFFIC MOVEMENT.
11. GEOTEXTILE FABRIC QUANTITY DOES NOT INCLUDE REQUIRED OVERLAP.
12. GEOTEXTILE FABRIC SHALL BE NDDOT TYPE R1.
13. WHERE RUNOFF DRAINS AWAY FROM CURBING, GUTTER SHALL BE INSTALLED AS OUTFLOW. WHERE CURBING RECEIVES WATER, GUTTER SHALL BE INSTALLED AS INFLOW.
14. IF ANY FOOTPRINT CHANGING ALTERNATES GET SELECTED, CONTRACTOR SHALL CONTACT ENGINEER FOR ALTERNATE GRADING PLAN.

	GRADE BREAK/FLOWLINE
FG	FINISH GROUND
FL	FLOWLINE
HP	HIGH POINT
INV	STRUCTURE INVERT ELEVATION
LP	LOW POINT
MC	MIDPOINT OF CURVE
ME	MATCH EXISTING GROUND
PC	POINT OF CURVATURE
RIM	STRUCTURE RIM ELEVATION
TC	TOP OF CURB/THICKENED EDGE
TOC	TOP OF CONCRETE
TW	TOP OF WALK
TOW	TOP OF WALL
BOW	BOTTOM OF WALL

ADDENDUM 1
- REVISED GRADING AT FIRE LANE, CONNECTION TO EX. BUILDING AND SOUTH PARKING LOT

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TYLER TRENDA PE-41570 DATE: 3/17/26 REGISTERED PROFESSIONAL ENGINEER NORTH DAKOTA

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1	ADDENDUM 1	03/17/2026

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JN: 25007.1

GRADING PLAN - SCHOOL

SHEET
C600



NOTES:
1. ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. 6" OF TOPSOIL STRIPPING WAS ASSUMED TO ALLOW FOR CLEARING OF ALL VEGETATION FROM THE SITE.
3. FILL WITHIN THE BUILDING FOOTPRINT(S) WAS EXCLUDED. SEE STRUCTURAL AND ARCHITECTURAL FOR FILL REQUIREMENTS.
4. EXCESS TOPSOIL/CLAY SHALL BECOME PROPERTY OF THE CONTRACTOR AND HAULED OFFSITE PRIOR TO CLOSE OUT OF THE PROJECT.
5. FILL/IMPORT QUANTITY ASSUMES A FILL FACTOR OF 1.3.
6. AGGREGATE BASE SHALL BE NDDOT/MNDOT CLASS 5.
7. QUANTITY FOR AGGREGATE BASE IS ASSUMED TO BE IN PLACE AND COMPACTED. CONTRACTOR SHALL MAKE ADJUSTMENTS FOR LOOSE VOLUME IF NECESSARY.
8. AGGREGATE BASE AND GEOTEXTILE FABRIC QUANTITIES ASSUME THEY EXTEND 1' BEYOND EDGE OF PAVEMENT.
9. GEOTEXTILE FABRIC PANELS SHALL BE A MINIMUM OF 12' WIDE AND INSTALLED WITH A MINIMUM OVERLAP OF 18" WITH JOINTS ORIENTATED TO FOLLOW TRAFFIC MOVEMENT.
10. GEOTEXTILE FABRIC QUANTITY DOES NOT INCLUDE REQUIRED OVERLAP.
11. MN: GEOTEXTILE FABRIC SHALL BE MNDOT TYPE 5 AND MEET REQUIREMENTS OF MNDOT SECTION 3733.
12. GEOTEXTILE FABRIC SHALL BE NDDOT TYPE R1.
13. WHERE RUNOFF DRAINS AWAY FROM CURBING, GUTTER SHALL BE INSTALLED AS OUTFLOW. WHERE CURBING RECEIVES WATER, GUTTER SHALL BE INSTALLED AS INFLOW.

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HP	HIGH POINT
INV	STRUCTURE INVERT ELEVATION
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MC	MIDPOINT OF CURVE
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1 ADDENDUM 1
- REVISED BACKGROUND

0 30 60

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PE-41570
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GRADING PLAN - FIELD

SHEET
C601



EROSION CONTROL LEGEND

SF	SILT FENCE	782	LF
	FIBER ROLL PROTECTION (STRAW WATTLE)	15	LF
	SEEDING & HYDROMULCH	7,085	SY
	SEEDING WITH EROSION CONTROL BLANKET	917	SY
	STANDARD INLET PROTECTION	13	EA
	VEHICLE TRACKING PAD	1	EA

NOTES:

1. CONTRACTOR SHALL FOLLOW NDDEQ STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING CONSTRUCTION.
2. A FODS TRACKOUT CONTROL MAT MAY BE USED AS AN APPROVED EQUAL TO THE VEHICLE TRACKING PAD. CONTRACTOR SHALL SUBMIT PROPOSED MAT LAYOUT TO ENGINEER FOR REVIEW PRIOR TO INSTALLING.
3. CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO ANY LAND DISTURBING ACTIVITY.
4. IF CONCRETE WASHOUT OCCURS ONSITE, CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER.
5. INLET PROTECTION SHALL BE BY DANDY PRODUCTS, ERTEC, FLEXSTORM, OR APPROVED EQUAL AND INSTALLED PER MANUFACTURES RECOMMENDATION.
6. CONTRACTOR SHALL LEAVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
7. CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MAINTENANCE, REPLACEMENT IF NECESSARY, REMOVAL, ETC OF ANY AND ALL PROTECTION MEASURES NEEDED FROM THE START OF CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
8. SILT FENCE SHALL BE INSTALLED ON PROPERTY LINE/EDGE OF PAVEMENT. OFFSET ON PLANS FOR CLARITY.

1 ADDENDUM 1
- REVISED SEEDING AREA
- REVISED QUANTITIES

0 30 60

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PE-41570
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EROSION & SEDIMENT CONTROL PLAN

SHEET
C700

SWPPP NARRATIVE

*** CONTRACTOR SHALL FILL IN ALL INFORMATION IN SHADED AREAS ***

PROJECT NAME
VCPS NEW 3-12 SCHOOL

PROJECT LOCATION
1150 CENTRAL AVE. N
VALLEY CITY, ND 58072
BARNES COUNTY
SECTION: 21
TOWNSHIP: 140
RANGE: 58
QUARTER SECTION: AAB
LATITUDE: 46.9344862°N
LONGITUDE: 99.0024554°W
METHOD FOR DETERMINING LATITUDE/LONGITUDE: GOOGLE EARTH MAP
IS THE SITE LOCATED ON INDIAN COUNTRY LANDS, OR ON A PROPERTY OF RELIGIOUS OR CULTURAL SIGNIFICANCE TO AN INDIAN TRIBE? NO

PROJECT SIZE
TOTAL PROJECT AREA - 8.33 ACRES
AREA TO BE DISTURBED - 7.55 ACRES
IMPERVIOUS AREA BEFORE CONSTRUCTION - 75,636 SF
PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION - 20.85%
1 IMPERVIOUS AREA AFTER CONSTRUCTION - 291,154 SF
PERCENTAGE IMPERVIOUS AREA AFTER CONSTRUCTION - 80.25%

PROJECT TYPE AND DESCRIPTION
TYPE: PUBLIC
DESCRIPTION: SITE IMPROVEMENTS WILL INCLUDE A NEW SCHOOL BUILDING ALONG WITH ASSOCIATED PARKING LOT, PEDESTRIAN WALKWAYS, SANITARY, WATER AND FIRE SERVICES, AS WELL AS A STORMWATER DETENTION SYSTEM.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT

TRACKING NUMBER:

RECEIVING WATERS
DOES THE SITE DISCHARGE STORMWATER INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM? YES
ARE THERE ANY WATERS WITHIN 50 FEET OF THE SITE? NO
IS THE END BODY OF WATER LISTED ON IMPAIRED WATERS OR TMDL LIST? YES
SHEYNNE RIVER- ND-09020204-034-S_00
DESCRIBE RECEIVING WATERS : CITY OF VALLEY CITY STORM SEWER SYSTEM WHERE IT LEADS TO THE SHEYNNE RIVER

DRAINAGE PATTERNS
THE SITE CURRENTLY FLOWS TOWARDS THE SOUTH PORTION OF THE SITE INTO AN EXISTING STORMWATER POND. A SMALL PORTION OF THE SITE DRAINS NORTH ONTO THE ROAD INTO EXISTING CURB INLETS. AFTER CONSTRUCTION, STORMWATER WILL FLOW INTO A SERIES OF NEW INLETS LOCATED ON THE SITE AND INTO A DETENTION AREA UNDER HANNA FIELD. THE STORMWATER FLOW WILL BE MITERED AND DISCHARGED TO THE EXISTING STORMWATER POND ON SITE.

SOIL TYPE(S)
PREDOMINANT SOIL(S) AREA:
NORTH PORTION OF SITE - SIOUX-ARVILLA-RENSHAW COMPLEX, 6-9% SLOPES, RATING A SOILS
SOUTH PORTION OF SITE - URBAN LAND- UDORTHENTS, 6-15% SLOPES, RATING C SOILS

ENDANGERED SPECIES
ARE THERE ANY KNOWN ENDANGERED SPECIES OR THREATENED SPECIES AND CRITICAL HABITATS ON OR NEAR THE PROJECT AREA? ARE KNOWN
NORTHERN LONG-EARED BAT AND DAKOTA SKIPPER
PROPOSED ENDANGERED/ THREATENED : SUCKLEY'S CUCKOO BUMBLE BEE, MONARCH BUTTERFLY, AND WESTERN REGAL FRITILLARY

HISTORIC PRESERVATION
ARE THERE ANY KNOWN HISTORIC SITES ON OR NEAR THE CONSTRUCTION SITE? NO

ESTIMATED DATES OF CONSTRUCTION

START DATE:

COMPLETION DATE:

RAIN GAUGE

RAIN GAUGE LOCATION (IF APPLICABLE):

OWNER CONTACT INFORMATION
VALLEY CITY PUBLIC SCHOOLS
JOSH JOHNSON
210 12TH STREET NE
VALLEY CITY, ND 58072
701-845-0483
JOSH.JOHNSON@K12.ND.US

CONTRACTOR

BUSINESS NAME:

CONTACT NAME:

MAILING ADDRESS:

CITY:

TELEPHONE:

EMAIL ADDRESS:

EMERGENCY 24-HOUR CONTACT

BUSINESS NAME:

CONTACT NAME:

TELEPHONE:

PARTY RESPONSIBLE FOR LONG TERM OPERATION & MAINTENANCE OF STORM SEWER SYSTEM
SEE OWNER INFORMATION

POLLUTANTS
POTENTIAL POLLUTANTS ON SITE ARE UNSTABLIZED SOILS, FUELS, LUBRICANTS, LITTER AND DEBRIS, BUILDING MATERIALS, OFF SITE TRACKING, SANITARY WASTE;

OTHER:

LIST OF AUTHORIZED NON-STORMWATER DISCHARGES PRESENT AT THE SITE

AUTHORIZED NON-STORMWATER DISCHARGE	WILL OR MAY OCCUR AT YOUR SITE?	
DISCHARGES FROM EMERGENCY FIRE-FIGHTING ACTIVITIES	☐ YES	☐ NO
FIRE HYDRANT FLUSHINGS	☐ YES	☐ NO
LANDSCAPE IRRIGATION	☐ YES	☐ NO
WATER USED TO WASH VEHICLES	☐ YES	☐ NO
WATER USED TO CONTROL DUST	☐ YES	☐ NO
POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS	☐ YES	☐ NO
EXTERNAL BUILDING WASHDOWN (SOAPS/SOLVENTS ARE NOT USED AND EXTERNAL SURFACES DO NOT CONTAIN HAZARDOUS SUBSTANCES)	☐ YES	☐ NO
PAVEMENT WASH WATERS	☐ YES	☐ NO
UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE	☐ YES	☐ NO
UNCONTAMINATED, NON-TURBID DISCHARGES OF GROUND WATER OR SPRING WATER	☐ YES	☐ NO
FOUNDATION OR FOOTING DRAINS	☐ YES	☐ NO
UNCONTAMINATED CONSTRUCTION DEWATERING WATER	☐ YES	☐ NO

NOTE: IF MARKED YES, CONTRACTOR SHALL IDENTIFY LOCATIONS ON THE PLAN SHEET.

CHEMICALS
LIST OF CHEMICALS AND STORAGE PLACE FOR EACH (IF APPLICABLE):

SPILL PREVENTION AND RESPONSE:
DESCRIBE PROCEDURES YOU WILL USE TO PREVENT AND RESPOND TO LEAKS, SPILLS, AND OTHER RELEASES:

FUELING AND MAINTENANCE OF EQUIPMENT OR VEHICLES
DESCRIBE EQUIPMENT/VEHICLE FUELING AND MAINTENANCE PRACTICES THAT WILL BE IMPLEMENTED TO ELIMINATE THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS:

WASHING OF EQUIPMENT AND VEHICLES
DESCRIBE EQUIPMENT/VEHICLE WASHING PRACTICES THAT WILL BE USED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER TYPES OF WASH WATERS:

DESCRIBE HOW YOU WILL PREVENT THE DISCHARGE OF SOAPS, DETERGENTS, OR SOLVENTS AND PROVIDE STORAGE BY EITHER (1) COVER TO PREVENT THESE DETERGENTS FROM COMING INTO CONTACT WITH RAINWATER, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS:

TRAINING DOCUMENTATION
SWPPP PREPARATION

PREPARED BY:	TYLER TRENDA - LOWRY ENGINEERING
DATE PREPARED:	03/10/2026
PHONE NUMBER:	701-235-0199
EMAIL:	TTRENDA@lowryeng.com
DATE OF TRAINING:	09/05/2023
NAME OF INSTRUCTOR:	VIRTUAL CLASS ON DEMAND
ENTITY PROVIDING TRAINING:	UNIVERSITY OF MINNESOTA
CONTENT OF TRAINING COURSE:	DESIGN OF CONSTRUCTION STORMWATER POLLUTION PREVENTION PLANS
TOTAL HOURS OF TRAINING:	12 HOURS

SWPPP IMPLEMENTATION, REVISING, AMENDING, AND INSPECTING

NAME:

DATE OF TRAINING:

NAME OF INSTRUCTOR:

ENTITY PROVIDING TRAINING:

CONTENT OF TRAINING COURSE:

TOTAL HOURS OF TRAINING:

BMP INSTALLATION, MAINTENANCE, AND REPAIR

NAME:

DATE OF TRAINING:

NAME OF INSTRUCTOR:

ENTITY PROVIDING TRAINING:

CONTENT OF TRAINING COURSE:

TOTAL HOURS OF TRAINING:

CERTIFICATION AND NOTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME: TITLE:

SIGNATURE: DATE:

SWPPP NOTES

EROSION & SEDIMENT CONTROL / SWPPP NOTES
1. IF THE LAND BOUNDARY DENOTED ON THE PLANS ENCOMPASSES MORE THAN 1 ACRE, A NOTICE OF INTENT TO OBTAIN A STORM WATER POLLUTION CONTROL PERMIT SHALL BE ACQUIRED BY THE CONTRACTOR AND OWNER FROM THE NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY 7 DAYS PRIOR TO CONSTRUCTION. THIS NOTICE OF INTENT SHALL BE PROVIDED WITH THE BUILDING PERMIT APPLICATION. CONTRACTOR IS RESPONSIBLE FOR NOI SUBMITTAL.
2. COPY OF NOI, COVERAGE LETTER FROM THE DOH AS WELL AS ALL MAINTENANCE AND INSPECTION RECORDS TO BE KEPT ON SITE AND AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST.
3. CONTRACTOR SHALL NOT HAVE MORE THAN 5 ACRES OF DISTURBED SOIL AT ONE TIME.
4. CONTRACTOR SHALL HAVE AN UPDATED SWPPP AVAILABLE ON SITE ANYTIME WORK IS BEING DONE. THIS DOCUMENT SHALL BE AVAILABLE FOR REVIEW BY CITY, STATE OR FEDERAL OFFICIALS UPON REQUEST. THE SWPPP SHALL BE IN ACCORDANCE WITH THE NORTH DAKOTA GENERAL PERMIT NO. NDR-11-0000 AND THE PLANS. THE ESC PLAN IS THE ENGINEER'S RECOMMENDATION FOR EROSION AND SEDIMENT CONTROL BASED ON THE DESIGN OF THE PROPOSED SITE. THIS DESIGN DOES NOT TAKE INTO EFFECT CONTRACTOR MEANS AND METHODS, CONSTRUCTION SCHEDULE, OR ORDER OF OPERATIONS. CONTRACTOR IS EXPECTED TO ADJUST DESIGN AS IS NECESSARY TO MEET THE REQUIREMENTS OF THE GENERAL PERMIT.
5. CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL ON THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO STORM WATER EROSION, EROSION FROM PUMPING OPERATIONS, OFF SITE TRACKING, DUST CONTROL AND CONTROL OF ANY CONCRETE GRINDINGS OR SAW CUT DUST. CONTRACTOR IS ALSO RESPONSIBLE FOR ALL OTHER ITEMS AS REQUIRED IN THE GENERAL PERMIT.
6. INSPECTIONS SHALL BE COMPLETED AND DOCUMENTED BY THE CONTRACTOR AT LEAST ONCE EVERY 14 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN ½" IN 24 HOURS. A RAIN GAUGE SHALL BE ONSITE AND USED TO MAKE THIS DETERMINATION.
7. AN INSPECTION REPORT FORM WILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST.
8. IF LAND DISTURBING ACTIVITY ON ANY PORTION OF THE SITE WILL CEASE FOR 14 DAYS OR MORE, EXPOSED SOILS ONSITE SHALL BE STABILIZED. STABILIZATION SHALL BE INITIATED IMMEDIATELY AND COMPLETED WITHIN 14 DAYS.
9. A NOTICE OF TERMINATION (N.O.T.) MUST BE SUBMITTED ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS PERMANENTLY STABILIZED.
10. ALL EROSION AND SEDIMENT RELATED CONTROL AND ITEMS NEED TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE DICTATED IN THE PLANS.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL EXCESS TOPSOIL, EXCAVATED MATERIAL, RUBBISH, TRASH, DEBRIS, AND ORGANIC MATERIAL CONSISTENT WITH LOCAL LAW AND WITH THE GENERAL PERMIT.
12. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. MUDDY WATER TO BE PUMPED FROM EXCAVATION AND WORK AREAS MUST BE HELD IN SETTLING BASINS OR FILTERED PRIOR TO ITS DISCHARGE INTO SURFACE WATERS OR STORM DRAINAGE SYSTEMS. WATER MUST BE DISCHARGED THROUGH A PIPE, WELL GRASSED OR LINED CHANNEL, OR OTHER EQUIVALENT MEANS SUCH THAT DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENTATION. THIS INCLUDES DE-WATERING OF RAINWATER, GROUND WATER, OR ANY OTHER WATER ON SITE CAUSING IMPACTS TO SITE CONSTRUCTION.
13. ALL DISTURBED AREAS SHALL BE SEEDED AND HYDROMULCHED UNLESS SHOWN OTHERWISE IN THE PLANS.
14. TOP SOIL OR OTHER SOIL/CLAY STOCKPILES ARE NOT TO BE LOCATED WITHIN FLOW PATHS, BASES OF ALL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE.
15. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, SEDIMENT REMOVAL/CLEANING, AND REPLACEMENT AS REQUIRED FOR ALL EROSION AND SEDIMENT CONTROL ITEMS.
16. CONTRACTOR IS RESPONSIBLE FOR SWEEPING AND CLEANING ANY SEDIMENT TRACKED ONTO ADJACENT ROADWAYS DURING CONSTRUCTION AS NEEDED TO KEEP STREETS CLEAR OF SEDIMENT.
17. CHEMICAL STORAGE ONSITE SHALL BE IN COMPLIANCE WITH THE GENERAL PERMIT.
18. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF INLET PROTECTION THROUGHOUT THE DIFFERENT PHASES OF CONSTRUCTION REGARDLESS OF THE TYPE OF PROTECTION. THE QUANTITY FOR ONE (1) INLET PROTECTION SHALL COVER INSTALLATION, CLEANING, REPLACEMENT, ETC. FROM THE TIME THE MANHOLE IS SET UNTIL FINAL STABILIZATION OF THE ENTIRE AREA DRAINING TO THE INLET. FOR EXAMPLE: ONE (1) INLET PROTECTION QUANTITY MAY COVER BUT IS NOT LIMITED TO: SILT FENCE AROUND MANHOLE PRIOR TO LID AND CASTING BEING INSTALLED, REMOVAL OF SILT FENCE AROUND MANHOLE AFTER CASTING HAS BEEN INSTALLED, INSTALLATION OF DEVICE SUCH AS DANDY SACK INSIDE CASTING, REMOVAL OF SEDIMENT FROM DANDY SACK, REMOVAL OF DANDY SACK FROM CASTING AFTER ALL UPSTREAM AREAS ARE STABILIZED.
19. DURING THE SITES CONSTRUCTION, ANTICIPATED POLLUTANTS ARE UNSTABILIZED SOIL, FUELS, LUBRICANTS, LITTER AND DEBRIS, BUILDING MATERIALS, OFF SITE TRACKING, SANITARY WASTE, ETC. WITHOUT ADEQUATE CONTROL, THERE IS A POTENTIAL OF THE POLLUTANTS TO BE SPREAD BY STORM WATER AND/OR WIND.
20. THE CONTRACTOR SHALL IMPLEMENT THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR SHALL PROVIDE AN EROSION CONTROL SUPERVISOR WITH A VALID CERTIFICATION TO DIRECT THE CONTRACTOR AND SUBCONTRACTOR(S) OPERATION AND INSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL ORDINANCES AND REGULATIONS.
21. IT IS ASSUMED THERE WILL BE NO CONSTRUCTION SUPPORT ACTIVITIES ASSOCIATED WITH THE PROJECT. IF IT BECOMES NECESSARY, CONTRACTOR SHALL PROVIDE LOCATION AND CONTACT INFORMATION.
22. OWNER SHALL REFER TO THE STORM WATER MANAGEMENT PLAN FOR MAINTENANCE REQUIREMENTS OF THE PERMANENT STORM WATER QUANTITY/QUALITY CONTROL MEASURES.
23. EROSION ON SITE: MINIMIZE WIND, WATER, AND VEHICULAR EROSION OF SOIL ON PROJECT SITE DUE TO CONSTRUCTION ACTIVITIES FOR THIS PROJECT.
    23.1. CONTROL MOVEMENT OF SEDIMENT AND SOIL FROM TEMPORARY STOCKPILES OF SOIL.
    23.2. PREVENT DEVELOPMENT OF RUTS DUE TO EQUIPMENT AND VEHICLE TRAFFIC.
    23.3. IF EROSION OCCURS DUE TO NON-COMPLIANCE WITH THESE REQUIREMENTS, RESTORE ERODED AREAS.
24. EROSION OFF SITE: PREVENT EROSION OF SOIL AND DEPOSITION OF SEDIMENT ON OTHER PROPERTIES CAUSED BY WATER LEAVING THE PROJECT SITE DUE TO CONSTRUCTION ACTIVITIES FOR THIS PROJECT.
    24.1. PREVENT WINDBLOWN SOIL FROM LEAVING THE PROJECT SITE
    24.2. PREVENT TRACKING OF MUD ONTO ROADS OUTSIDE THE CONSTRUCTION SITE.
    24.3. PREVENT MUD AND SEDIMENT FROM FLOWING ONTO PAVEMENTS.
    24.4. IF EROSION OCCURS DUE TO NON-COMPLIANCE WITH THESE REQUIREMENTS RESTORE ERODED AREAS AT NO COST TO OWNER.
25. OPEN WATER: PREVENT STANDING WATER THAT COULD BECOME STAGNANT.
26. MAINTENANCE: MAINTAIN TEMPORARY PREVENTATIVE MEASURES UNTIL PERMANENT MEASURES HAVE BEEN ESTABLISHED.
27. EXAMINE SITE AND IDENTIFY EXISTING FEATURES THAT CONTRIBUTE TO EROSION RESISTANCE; MAINTAIN SUCH EXISTING FEATURES TO GREATEST EXTENT POSSIBLE.
28. SCHEDULE WORK SO THAT SOIL SURFACES ARE LEFT EXPOSED FOR THE MINIMUM AMOUNT OF TIME.
29. NATURAL VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE.
30. LAND GRADING AND EXCAVATING SHALL BE KEPT AT A MINIMUM TO REDUCE THE POSSIBILITY OF CREATING RUNOFF AND EROSION PROBLEMS WHICH REQUIRE EXTENSIVE CONTROL MEASURES.
31. LAND EXPOSURE SHALL BE MIINIMIZED IN TERMS OF AREA AND TIME.
32. REMOVE TEMPORARY MEASURES AFTER PERMANENT MEASURES HAVE BEEN INSTALLED, UNLESS PERMITTED TO REMAIN BY ENGINEER.
33. WHERE REMOVAL OF TEMPORARY MEASURES LEAVE EXPOSED SOIL, SHAPE SURFACE TO AN ACCEPTABLE GRADE AND FINISH TO MATCH ADJACENT GROUND SURFACES.
34. THE SWPPP MUST BE UPDATED AS NECESSARY DURING THE SITES CONSTRUCTION IN ORDER TO KEEP IT CURRENT WITH THE POLLUTANT CONTROL MEASURES UTILIZED AT THE SITE. UPDATING THE SWPPP WILL NOT REQUIRE IT TO BE REPRINTED. ADDENDA, SKETCHES, AND/OR REVISED DRAWINGS MAY BE ADDED TO THE SWPPP. THE SITE MAP SHOWING THE LOCATIONS OF STORM WATER CONTROLS SHALL BE UPDATED TO SHOW THE PROGRESS OF CONSTRUCTION.
35. ALL BMP MATERIALS SHALL FOLLOW NDDOT SPECIFICATIONS.

SEEDING NOTES:
1. ALL SEEDING MIX SHALL CONSIST OF THE FOLLOWING:
    -KENTUCKY BLUEGRASS = 60% BY WEIGHT, 90% PURITY, 85% GERMINATION
    -CREEPING RED FESCUE = 10% BY WEIGHT, 90% PURITY, 85% GERMINATION
    -FINE LEAF PERENNIAL RYEGRASS = 30% BY WEIGHT, 95% PURITY, 90% GERMINATION
    -PERCENT BY WEIGHT SHALL BE ± 5% ON ALL SEED TYPES.
    -RATE OF SEEDING SHALL BE 220 POUNDS PER ACRE (5 POUNDS PER 1,000 SF)
    -TOTAL LBS PER ACRE = 19
    -FERTILIZER TYPE = 20 LBS NITROGEN AND 20 LBS PHOSPHOROUS PER ACRE
2. CULTIVATE OR DISK TOPSOIL TO A DEPTH OF APPROXIMATELY 3".
3. REMOVE MATERIALS GREATER THAN 1" IN DIAMETER THAT CANNOT BE BROKEN UP.
4. PLANT SEEDS TO A DEPTH BETWEEN ¼" AND ½".
5. SEED ONLY WHEN WIND IS LESS THAN 15 MPH WHEN NOT USING A GRASS DRILL.
6. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING TO PREVENT EROSION AND PROMOTE EARLIER VEGETATION COVER.
7. CONTRACTOR IS RESPONSIBLE FOR WATERING TO ESTABLISH GRASS GROWTH TO A HEIGHT OF 3".
8. FERTILIZER SHALL BE 12-24-12 AT AN APPLICATION RATE OF 220 POUNDS PER ACRE (5 POUNDS PER 1,000 SF)
9. CONTRACTOR SHALL FOLLOW STATE AND LOCAL LAWS REGARDING THE USE OF PHOSPHORUS FERTILIZER.

1 ADDENDUM 1
- REVISED SITE COVERAGE

DISCLAIMER
THIS SWPPP TEMPLATE WAS PARTIALLY COMPLETED BY LOWRY ENGINEERING FOR USE BY THE RESPONSIBLE PARTY FOR THE PROPOSED CONSTRUCTION PROJECT. LOWRY ENGINEERING IS NOT RESPONSIBLE FOR THE ACCURACY, ENFORCEMENT, MAINTENANCE, OR MANAGEMENT OF THE SWPPP IN ANY WAY AND MAKES NO REPRESENTATION REGARDING THE MATTER.

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REGISTERED PROFESSIONAL ENGINEER
TYLER TRENDA
PE-41570
DATE: 3/17/26
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM 1	03/17/2026

DRAWN BY: TWT JN: 25007.1

SWPPP NARRATIVE & NOTES

SHEET
C701



LANDSCAPING LEGEND

SYMBOL	TYPE OF PLANT MATERIAL	PLANTING SIZE	CANOPY COVERAGE (SF)	#PLANTS EACH
	SHADE TREE	1.5 MINIMUM CALIPER	500	14
	ORNAMENTAL TREE	1.5 MINIMUM CALIPER	250	42
	MATURE SHRUB PERENNIAL PLANTS	1 -2 GALLON	0	101

LANDSCAPING NOTES:

1. AT THE TIME OF PLANTING TREES SHALL HAVE A MIN. OF 1.5" CALIPER TRUNK.
2. CONTRACTOR SHALL PROVIDE A 1 YEAR WARRANTY ON ALL LANDSCAPE MATERIAL TO INCLUDE WORKMANSHIP FOR INSTALLATION FROM DATE OF FINAL ACCEPTANCE.
3. CONTRACTOR TO COORDINATE WITH MECHANICAL REGARDING LANDSCAPING IN AND AROUND AIR INTAKE OR EXHAUST UNITS.
4. CONTRACTOR TO ALLOW 5' CLEARANCE FROM UNDERGROUND UTILITY PIPING TO PLANTINGS.
5. TREES PLANTED UNDER OVERHEAD ELECTRIC SHALL NOT BE TALLER THAN 15' AT MATURITY.
6. ORNAMENTAL TREES SHALL BE 10'-20' MATURE HEIGHT WITH 8'-15' SPREAD.
7. SHADE TREES SHALL BE 30'-50' MATURE HEIGHT WITH 30'-45' SPREAD.

△1 ADDENDUM 1
- REMOVED TREE AND SHRUB FOR LIGHT POLE LOCATIONS
- REVISED QUANTITIES

CALL BEFORE YOU DIG
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UTILITIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

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REGISTERED PROFESSIONAL ENGINEER
TYLER TRENDA
PE - 41570
DATE: 3/17/26
NORTH DAKOTA

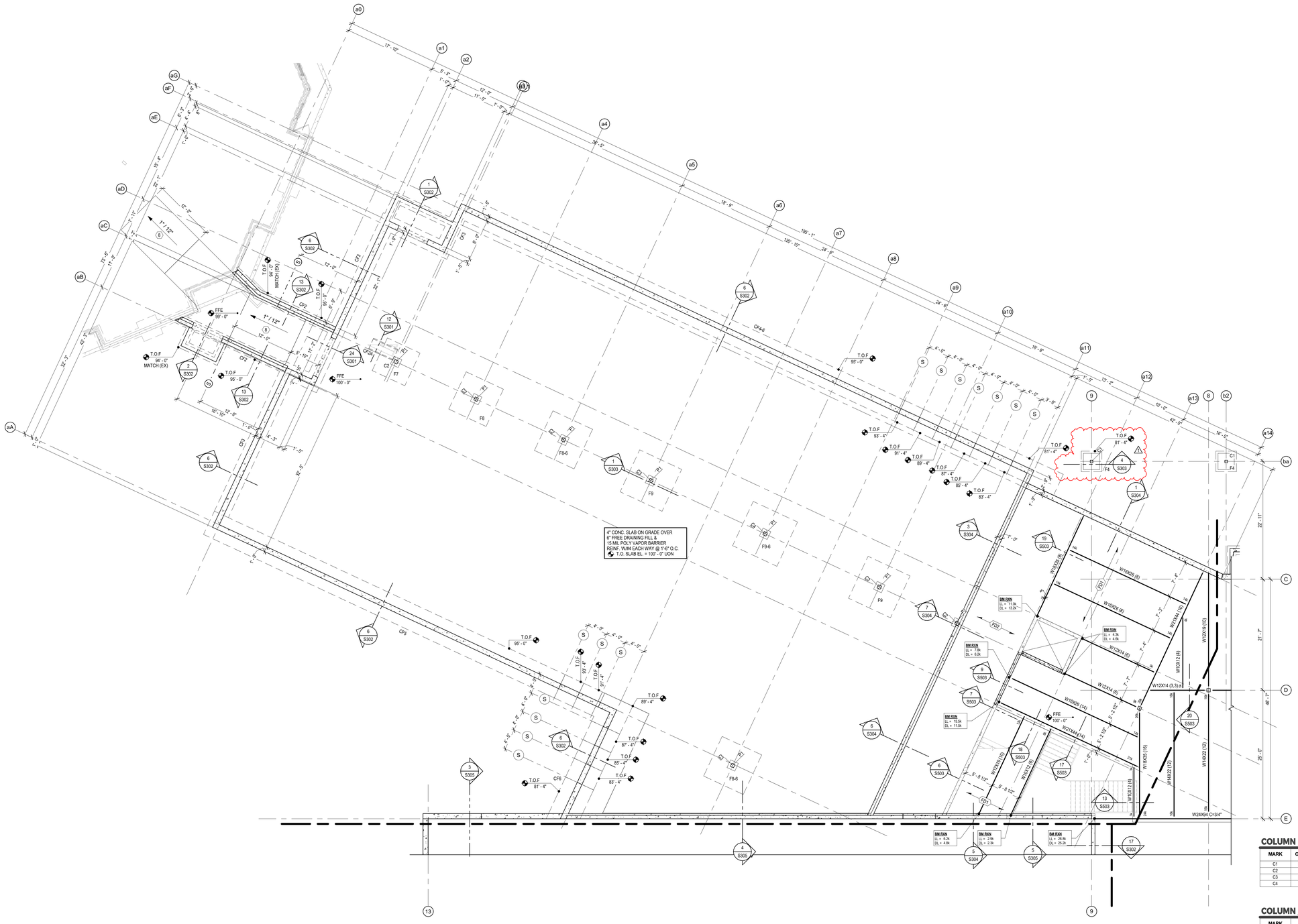
DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/30/2026
1	ADDENDUM 1	03/17/2026

DRAWN BY: TWT
JN: 25007.1

LANDSCAPING PLAN

SHEET
C800



2 S102A Foundation Plan - Area A

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. ALL WALL FOOTINGS ARE TO BE CENTERED ON WALLS, UON. WALL FOOTINGS ARE TO BE 12" THICK REINFORCED W/ (2) #5 CONT LONGITUDINAL BARS AND PROJECT 6" BEYOND EACH FACE OF FOUNDATION WALL THEY SUPPORT, UON. ALL PAD FOOTINGS ARE TO BE CENTERED ON COLUMNS / PIERS, UON.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT / ENGINEER IF DISCREPANCIES EXIST.
3. SEE SHEET S001 FOR GENERAL CONCRETE & FOUNDATION NOTES.
4. SEE ARCH FOR DIMENSIONING OF FOUNDATION WALL HOLDOUTS, LOCATION OF STOOPS, SLAB RECESSES & SLOPED SLAB AREAS.
5. SEE DETAIL 6 /S301 FOR SLAB CONSTRUCTION JOINTS (CCJ). SEE DETAIL 7 /S301 FOR SLAB CONTROL JOINTS (CJ). CONTRACTOR SHALL SUBMIT A PROPOSED JOINT LAYOUT TO ARCHENG. FOR APPROVAL PRIOR TO SLAB PLACEMENT.

   CONTROL JOINTS SHALL BE ON COLUMN LINES AND AT RE-ENTRANT CORNERS TO THE GREATEST EXTENT POSSIBLE W/ SPACING LESS THAN 12'-0" O.C. BETWEEN.

   CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO ALLOW A SINGLE SLAB POUR TO EXCEED 4,000sf UNLESS ALTERNATIVE MEASURES ARE TAKEN TO CONTROL SLAB CURLING & SHRINKAGE.

   PROVIDE CJ OR CCJ JOINTS SO AS NOT TO EXCEED A SLAB UNIT ASPECT RATIO OF 1.5:1.
6. ADD (2) #5 x 3'-0" REBAR @ 3" O.C. FOR CRACK CONTROL AT RE-ENTRANT CORNERS - SEE DETAIL 9 /S301
7. (S)— - INDICATES STEPPED WALL FOOTING LOCATION - SEE DETAIL 1 /S301
8. "C#" - INDICATES A STEEL COLUMN - SEE SCHEDULE ON THIS SHEET
9. "P#" - INDICATES A CONCRETE PIER - SEE PIER DETAILS ON S302
10. "F# / CF#" - INDICATES COLUMN PAD / WALL STRIP FOOTINGS - SEE SCHEDULES ON THIS SHEET
11. REINFORCE 8" CMU WALLS W/ (1) #5 VERTICAL @ 4'-0" O.C., UON. ALL MASONRY BELOW GRADE SHALL BE FULLY GROUTED.
12. SEE DETAIL 12 /S301 FOR THICKENED SLAB BELOW STAIR STRINGERS. VERIFY LOCATION WITH ARCH.
13. SEE DETAIL 16 /S301 FOR THICKENED SLABS BELOW NON-BEARING CMU WALLS. VERIFY LOCATIONS OF ALL CMU WALLS WITH ARCH.
14. ▨ - INDICATES STEP IN FLOOR SLAB ELEVATION - SEE DETAIL 14 /S301

KEYNOTES

#	
8	RAMP - COORDINATE WITH ARCH. SEE DETAILS 17/S301 & 18/S301 FOR RAMP TOP & BOTTOM.

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLATE THICKNESS	BASE PLATE DETAIL	ANCHOR BOLTS	DETAIL
C1	HSS6X6X3/16	1 1/4"	10/S301	(4) 3/4" Ø	11/S301
C2	HSS8X8X1/4	1 1/4"	10/S301	(4) 3/4" Ø	11/S301
C3	HSS8X8X5/16	1 1/4"	10/S301	(4) 3/4" Ø	11/S301
C4	HSS8X8X1/2	1 1/4"	10/S301	(4) 3/4" Ø	11/S301

COLUMN / PAD FOOTING SCHEDULE

MARK	SIZE	DEPTH	BOT REINFORCING TRANS	BOT REINFORCING LONG	TOP REINFORCING TRANS	TOP REINFORCING LONG	REMARKS
F3	3' - 0" SQ	1' - 0"	(3) #5	(3) #5	-	-	
F4	4' - 0" SQ	1' - 0"	(4) #5	(4) #5	-	-	
F5	5' - 0" SQ	1' - 0"	(5) #5	(5) #5	-	-	
F6	6' - 0" SQ	1' - 0"	(6) #5	(6) #5	-	-	
F6-6	6' - 6" SQ	1' - 0"	(6) #5	(6) #5	-	-	
F7	7' - 0" SQ	1' - 2"	(7) #5	(7) #5	-	-	
F7-6	7' - 6" SQ	1' - 0"	(7) #5	(7) #5	-	-	
F8	8' - 0" SQ	1' - 4"	(8) #5	(8) #5	-	-	
F8-6	8' - 6" SQ	1' - 0"	(8) #5	(8) #5	-	-	
F9	9' - 0" SQ	1' - 6"	(8) #5	(8) #5	-	-	
F9-6	9' - 6" SQ	1' - 6"	(8) #5	(8) #5	-	-	
F10	10' - 0" SQ	1' - 8"	(13) #5	(13) #5	-	-	
F10-6	10' - 0" SQ	1' - 8"	(13) #5	(13) #5	-	-	
F13	13' - 0" SQ	2' - 2"	(13) #5	(13) #5	-	-	
F13x5-6	13' - 0" x 5' - 6"	1' - 0"	(3) #5	(3) #5	-	-	

WALL / STRIP FOOTING SCHEDULE

MARK	SIZE	DEPTH	BOT REINFORCING TRANS	BOT REINFORCING LONG	TOP REINFORCING TRANS	TOP REINFORCING LONG	REMARKS
CF1-8	1' - 8"	1' - 0"		(2) #5	-	-	@ STOOPS
CF2	2' - 0"	1' - 0"		#4 @ 6' - 0"	-	-	
CF2-6	2' - 6"	1' - 0"		#4 @ 6' - 0"	(3) #5	-	
CF2A	2' - 0" THKD	1' - 0"					
CF3	3' - 0"	1' - 0"		#4 @ 4' - 0"	(3) #5	-	-
CF3-6	3' - 6"	1' - 0"		#5 @ 1' - 6"	(4) #5	-	-
CF4	4' - 0"	1' - 0"		#5 @ 1' - 6"	(4) #5	-	-
CF4-6	4' - 6"	1' - 0"		#5 @ 1' - 6"	(5) #5	-	-
CF5	5' - 0"	1' - 2"		#5 @ 1' - 6"	(5) #5	-	-
CF5-6	5' - 6"	1' - 2"		#5 @ 1' - 6"	(6) #5	-	-
CF6	6' - 0"	1' - 2"		#5 @ 1' - 6"	(6) #5	-	-
CF10	10' - 0"	1' - 6"		<varies>	<varies>	<varies>	

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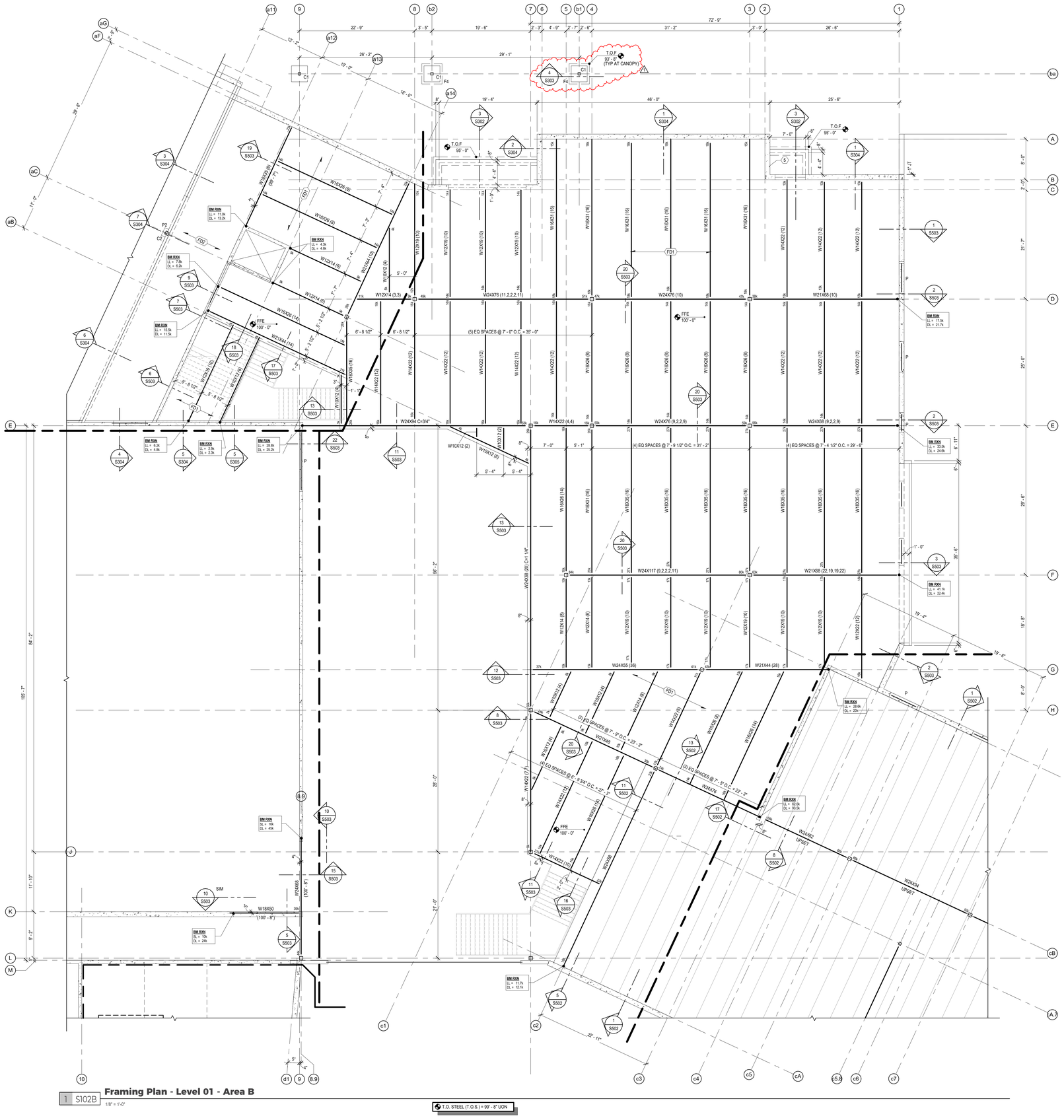
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	CONSTRUCTION DOCUMENTS	03/10/26
1	ADDENDUM #1	03/17/26

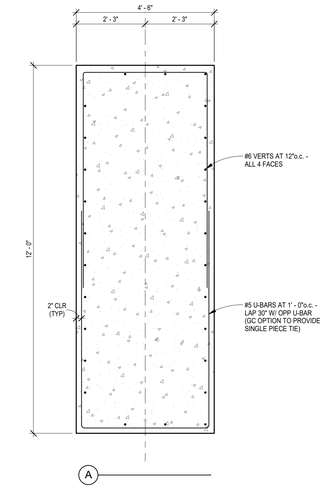
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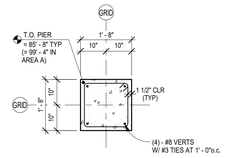
Foundation Plan - Area A

SHEET
S102A

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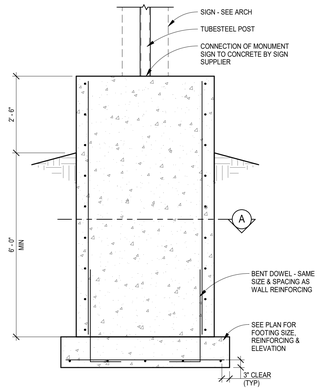

T.O.F 93' - 8" (TYP AT CANOPY)
T.O.F 95' - 0"
FFE 100' - 0"
(5) EQ SPACES @ 7' - 0" O.C. = 35' - 0"
(4) EQ SPACES @ 7' - 9 1/2" O.C. = 31' - 2"
(4) EQ SPACES @ 7' - 4 1/2" O.C. = 29' - 6"
(3) EQ SPACES @ 7' - 9" O.C. = 23' - 3"
(3) EQ SPACES @ 7' - 5" O.C. = 22' - 3"
(6) EQ SPACES @ 6' - 9 3/4" O.C. = 27' - 7"
W24X76 (11,2,2,2,11)
W24X76 (10)
W21X68 (10)
W24X76 (8,2,2,9)
W24X68 (9,2,2,9)
W24X117 (9,2,2,2,11)
W21X68 (22,19,19,22)
W24X55 (36)
W21X44 (28)
W24X84 (20) C=1 1/4"
W24X84 C=3/4"
W24X68 UPSET
W24X94 UPSET
W21X62
W24X76
W24X68
W24X62
W24X55
W24X84
W24X94
W21X68
W21X62
W21X57
W21X48
W21X44
W18X50
W18X35
W18X40
W16X26
W16X31
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W4X13





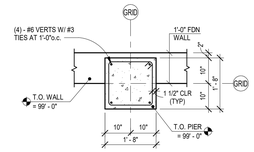
P1 S303 Pier

1/2" = 1'-0"



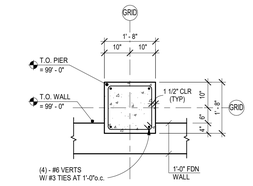
3 S303 Monument Foundation

1/2" = 1'-0"



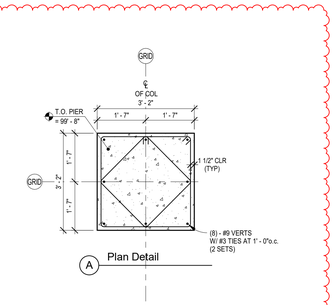
P2 S303 Pier

1/2" = 1'-0"



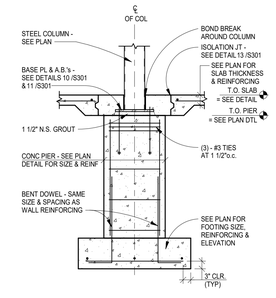
P3 S303 Pier

1/2" = 1'-0"



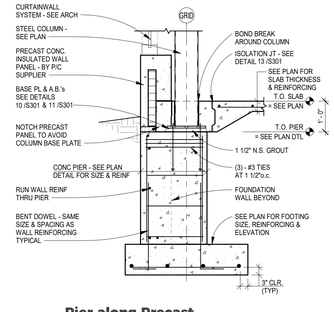
4 S303 Canopy Pier

1/2" = 1'-0"



1 S303 Pier

1/2" = 1'-0"



2 S303 Pier along Precast

1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL F. JOCHIM
PE-9139
DATE 03-10-2026
NORTH DAKOTA

DRAWING HISTORY

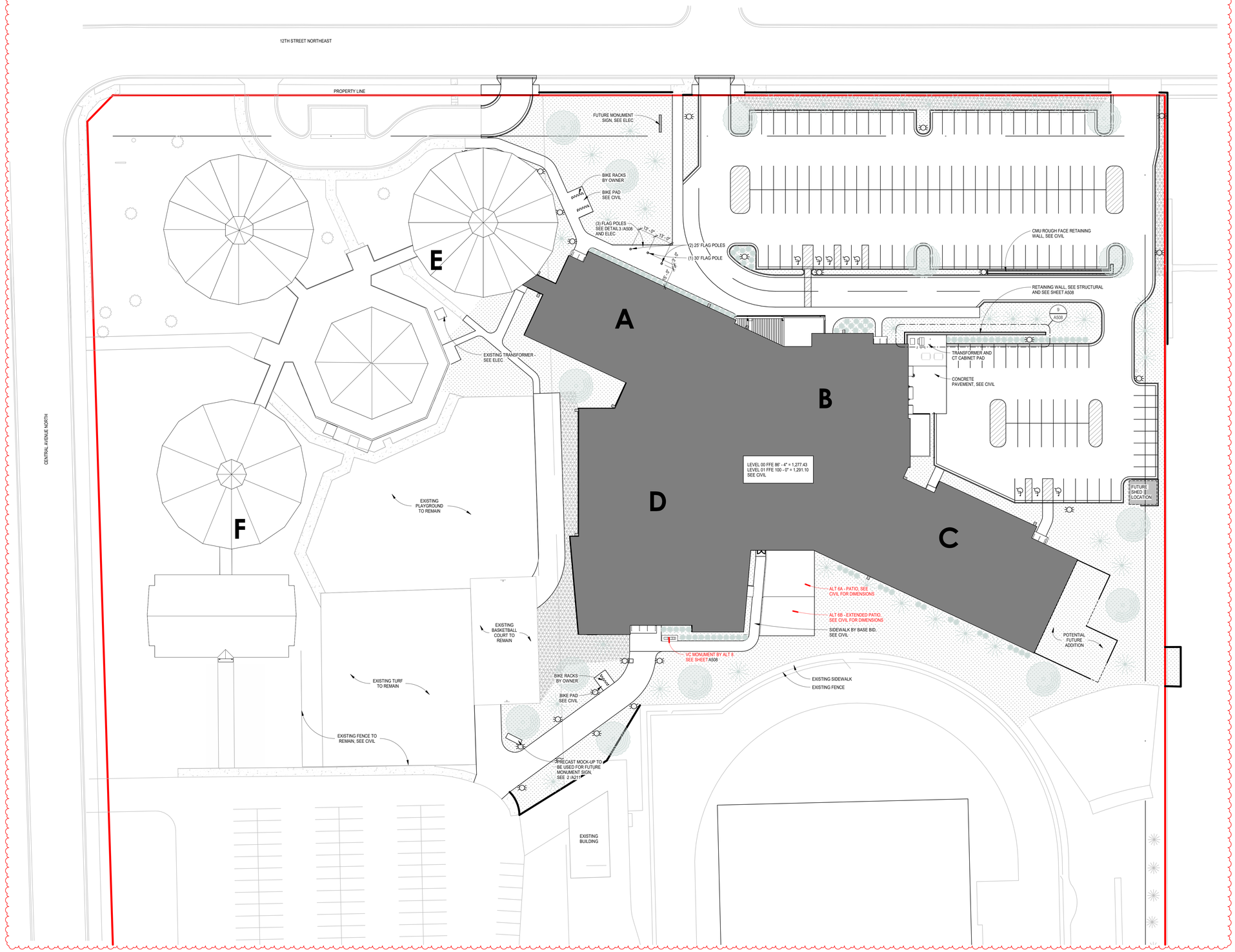
NO.	DESCRIPTION	DATE
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1	ADDENDUM #1	03/17/26

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Foundation Details

SHEET
S303

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1 A001 **Level 01 Plan Overall Buildings**

1" = 30'-0"

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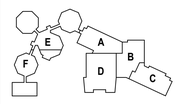
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LICENSED ARCHITECT
HEIDI BRENNAN
REG. NO. 8550
Date 03/10/26
STATE OF NORTH DAKOTA

DRAWING HISTORY

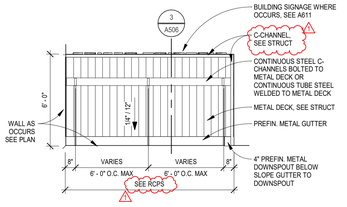
NO.	DESCRIPTION	DATE
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1	Addendum #1	03/17/26

DRAWN BY: AS/HO/JT JN: 24-028

Architectural Site Plan

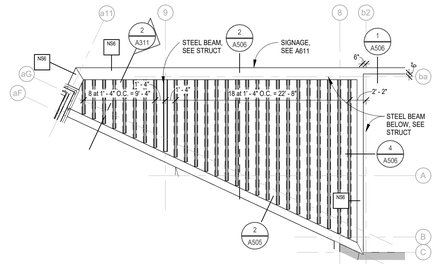
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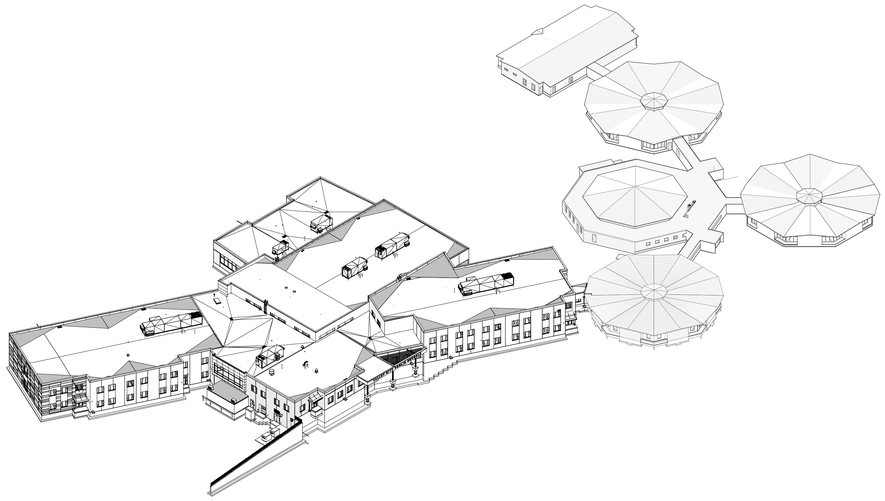
1 A105 **Enlarged Canopy Plan, Typ**

1/4" = 1'-0"



2 A105 **Enlarged Trellis Plan**

1/8" = 1'-0"



3 A105 **Roof Axon (For Reference Only)**

GENERAL NOTES - ROOF PLAN

1. COORDINATE FULL EXTENT OF ROOF PENETRATIONS AND EQUIPMENT CURBS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
2. ROOF MEMBRANE TO RUN UP VERTICAL PARAPET FACE AND OVER TOP OF WALL, TYPICAL THROUGHOUT. COORDINATE WITH DETAILS.
3. CONTRACTOR IS RESPONSIBLE FOR MAKING A WATER-TIGHT ROOF SYSTEM.
4. SEE SPECIFICATIONS FOR ROOF SYSTEM WARRANTY REQUIREMENTS.
5. PROVIDE FLASHING AT ALL ROOF PENETRATIONS. PENETRATIONS MAY NOT BE INDICATED ON THE ROOF PLAN. REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS FOR NUMBER, LOCATION, AND SIZE OF PENETRATIONS. COORDINATE ALL LOCATIONS AND PENETRATIONS WITH PLUMBING, ELECTRICAL, AND HVAC CONTRACTOR.
6. TAPERED INSULATION SHALL BE SLOPED 1/4" PER FOOT MINIMUM.
7. PROVIDE CURBS AND PRESSURE TREATED WOOD BLOCKING AS REQUIRED FOR ALL ROOF MOUNTED EQUIPMENT, UNLESS NOTES OTHERWISE.

GENERAL NOTES - ROOF PLAN

DARK GRAY HATCH INDICATES CRICKET AREAS. SEE KEYNOTE 2.

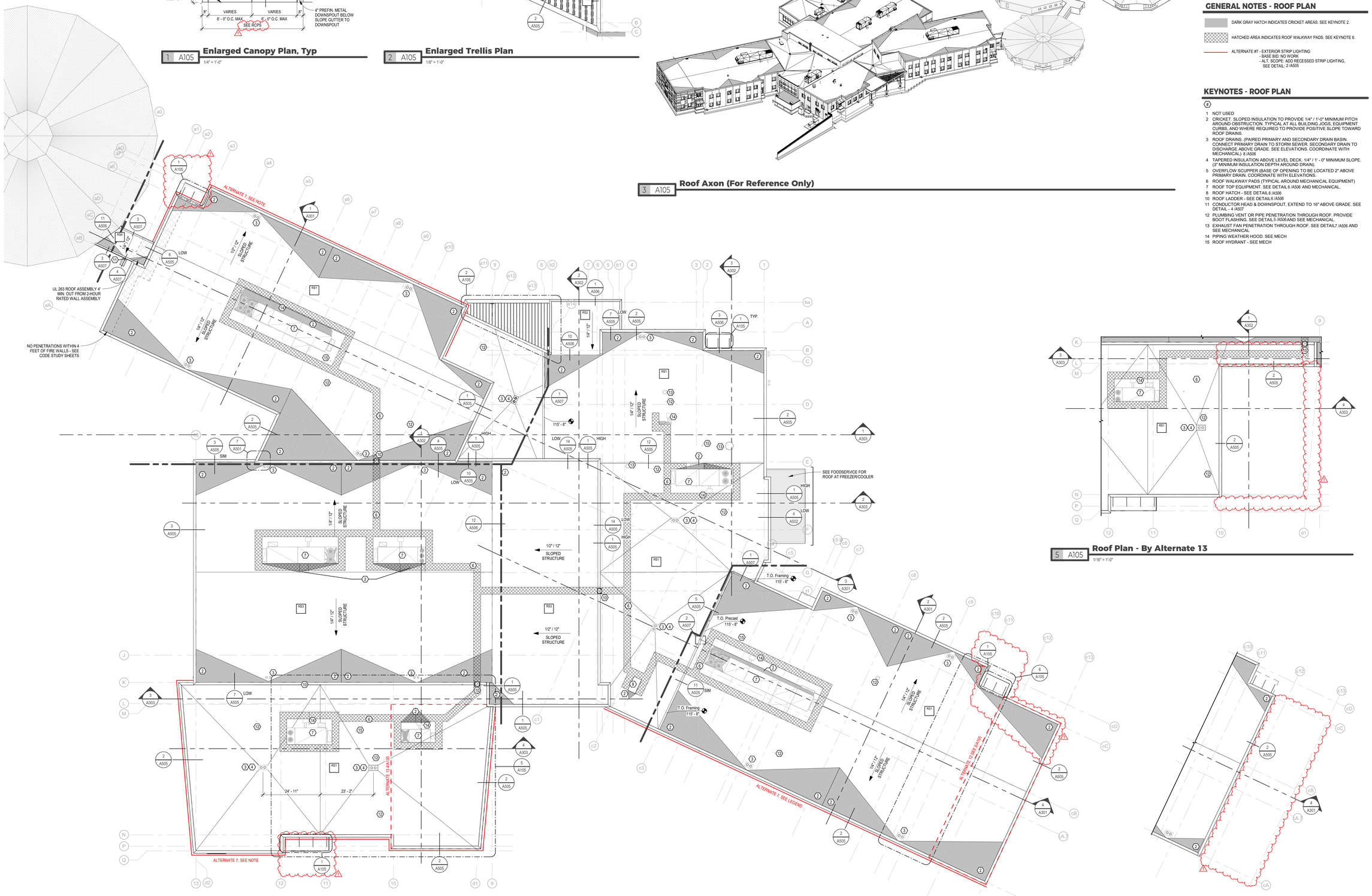
HATCHED AREA INDICATES ROOF WALKWAY PADS. SEE KEYNOTE 6.

ALTERNATE #7 - EXTERIOR STRIP LIGHTING
- BASE BID: NO WORK
- ALT. SCOPE: ADD RECESSED STRIP LIGHTING, SEE DETAIL 2 /A505

KEYNOTES - ROOF PLAN

(#)

1 NOT USED
2 CRICKET. SLOPED INSULATION TO PROVIDE 1/4" / 1'-0" MINIMUM PITCH AROUND OBSTRUCTION. TYPICAL AT ALL BUILDING JOGS, EQUIPMENT CURBS, AND WHERE REQUIRED TO PROVIDE POSITIVE SLOPE TOWARD ROOF DRAINS.
3 ROOF DRAINS. (PAIRED PRIMARY AND SECONDARY DRAIN BASIN. CONNECT PRIMARY DRAIN TO STORM SEWER. SECONDARY DRAIN TO DISCHARGE ABOVE GRADE. SEE ELEVATIONS. COORDINATE WITH MECHANICAL.) S /A506
4 TAPERED INSULATION ABOVE LEVEL DECK. 1/4" / 1' - 0" MINIMUM SLOPE. (3" MINIMUM INSULATION DEPTH AROUND DRAIN).
5 OVERFLOW SCUPPER (BASE OF OPENING TO BE LOCATED 2" ABOVE PRIMARY DRAIN. COORDINATE WITH ELEVATIONS.
6 ROOF WALKWAY PADS (TYPICAL AROUND MECHANICAL EQUIPMENT)
7 ROOF TOP EQUIPMENT. SEE DETAIL 6 /A506 AND MECHANICAL.
8 ROOF HATCH - SEE DETAIL 6 /A506
10 ROOF LADDER - SEE DETAIL 6 /A506
11 CONDUCTOR HEAD & DOWNSPOUT, EXTEND TO 16" ABOVE GRADE. SEE DETAIL - 4 /A507
12 PLUMBING VENT OR PIPE PENETRATION THROUGH ROOF. PROVIDE BOOT FLASHING. SEE DETAIL 5 /A506 AND SEE MECHANICAL
13 EXHAUST FAN PENETRATION THROUGH ROOF. SEE DETAIL7 /A506 AND SEE MECHANICAL
14 PIPING WEATHER HOOD. SEE MECH
15 ROOF HYDRANT - SEE MECH



4 A105 **Overall Roof Plan**

1/16" = 1'-0"

5 A105 **Roof Plan - By Alternate 13**

1/16" = 1'-0"

6 A105 **Roof Plan - By Alternate 12**

1/16" = 1'-0"

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LICENSED ARCHITECT
HEIDI BRENNAN
8559
STATE OF NORTH DAKOTA
Heidi Brennan
Date 03/10/26

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

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Roof Plan

SHEET
A105

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1 A110C **Lower Level 00 Reflected Ceiling Plan - Area C**

1/8" = 1'-0"

GENERAL NOTES - RCP

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND COORDINATE PRIOR TO INSTALLATION.
2. WALLS TO EXTEND TO DECK ABOVE, AS PER WALL ASSEMBLIES. CUT AROUND STEEL BEAMS AND/OR TRUSSES AS REQUIRED. UTILIZE SLIP TRACK AT HEAD AT ALL STEEL STUD PARTITIONS. (SEE CODE STUDY FOR RATED WALL LOCATIONS.)
3. ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF REGULAR CEILING TILES, UON. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND SPRINKLER HEADS.
4. LIGHTS AND GRIDS ARE TYPICALLY CENTERED IN ROOMS, OR BETWEEN SELECT WALLS WITHIN A GIVEN AREA, UNO. COORDINATE EACH AREA WITH ELECTRICAL SHEETS AND FIELD VERIFICATION PRIOR TO INSTALL. LIGHT LOCATIONS GOVERN OVER OTHER MECHANICAL AND ELECTRICAL DEVICES.
5. GRID LAYOUT SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY THE FINAL LAYOUT WITH FIELD CONDITIONS AND OBTAIN ARCHITECT APPROVAL OF CHANGES PRIOR TO INSTALLATION.
6. PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL SEPARATIONS.
7. COORDINATE EXIT LIGHT LOCATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CORRECT PLACEMENT OF ALL REQUIRED EXIT LIGHTS AND MEANS OF EGRESS LIGHTING.
8. PROVIDE HOLD DOWN CLIPS AT SUSPENDED CEILING ASSEMBLIES AT EXTERIOR DOORS AS RECOMMENDED BY CEILING MANUFACTURER
9. AT ACOUSTICAL DECK LOCATIONS, WEDGE HANGERS TO BE USED FOR ALL ROOF OR FLOOR HUNG ITEMS. (SUSPENDED CEILINGS, PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC.) SEE A092 FOR ASSEMBLIES.
10. FOR CEILING FINISH ABOVE LOCKERS, SEE 2 /A421 AND 3 /A421

REFLECTED CEILING PLAN LEGEND

CEILING TAG: 9'-0" / A | PT-5 — 9'-0" INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR; A | PT-5 INDICATES FINISH, SEE FINISH SCHEDULE.

INDICATES CEILING MAKE-UP. REFER TO MAKE-UP NOTES BELOW FOR DESCRIPTION.

A. 5/8" GYPSUM BOARD ON LIGHT GAUGE FRAMING.

B. TYPE SC6 WALL ASSEMBLY TIGHT TO BOTTOM OF STAIR ASSEMBLY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SEE VERT. CIRCULATION SHEETS AND A091. 1 HR RATED WALL ASSEMBLY

C. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. SEE FINISH SCHEDULE.

D. NO CEILING IN THIS ROOM / AREA

E. NO CEILING IN THIS ROOM / AREA. EXPOSED STRUCTURE. ELECTRICAL CONDUIT, AND MECHANICAL SYSTEMS TO BE PAINTED. SEE CEILING TAG FOR FINISH. PAINT ADJACENT WALLS DOWN TO BOTTOM OF STRUCTURE TO MATCH.

F. LINEAR WOOD CEILING, SEE FINISH SCHEDULE.

G. EXTERIOR METAL PANEL SYSTEM MP-1A, SEE EXTERIOR ELEVATIONS FOR FINISH INFORMATION

KEYNOTES - REFLECTED CEILING PLAN

(#)

2 PAINT UNDERSIDE OF STAIRS, PT-6.

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ELECTRICAL

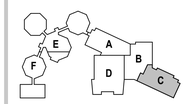
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LICENSED ARCHITECT HEIDI BRENNAN 18591 STATE OF NORTH DAKOTA
Date 03/10/26

DRAWING HISTORY

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Lower Level 00 Reflected Ceiling Plan - Area C

SHEET
A110C

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1 A111A **Main Level 01 Reflected Ceiling Plan - Area A**

1/8" = 1'-0"

GENERAL NOTES - RCP

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND COORDINATE PRIOR TO INSTALLATION.
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7. COORDINATE EXIT LIGHT LOCATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CORRECT PLACEMENT OF ALL REQUIRED EXIT LIGHTS AND MEANS OF EGRESS LIGHTING.
8. PROVIDE HOLD DOWN CLIPS AT SUSPENDED CEILING ASSEMBLIES AT EXTERIOR DOORS AS RECOMMENDED BY CEILING MANUFACTURER
9. AT ACOUSTICAL DECK LOCATIONS, WEDGE HANGERS TO BE USED FOR ALL ROOF OR FLOOR HUNG ITEMS. (SUSPENDED CEILINGS, PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC.) SEE A092 FOR ASSEMBLIES.
10. FOR CEILING FINISH ABOVE LOCKERS, SEE 2 /A421 AND 3 /A421

REFLECTED CEILING PLAN LEGEND

CEILING TAG: 9'-0" / A | PT-4
- INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR.
- FINISH, SEE FINISH SCHEDULE.
- INDICATES CEILING MAKE-UP. REFER TO MAKE-UP NOTES BELOW FOR DESCRIPTION.

A. 5/8" GYPSUM BOARD ON LIGHT GAUGE FRAMING.

B. TYPE SC6 WALL ASSEMBLY TIGHT TO BOTTOM OF STAIR ASSEMBLY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SEE VERT. CIRCULATION SHEETS AND A091. 1 HR RATED WALL ASSEMBLY

C. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. SEE FINISH SCHEDULE.

D. NO CEILING IN THIS ROOM / AREA

E. NO CEILING IN THIS ROOM / AREA. EXPOSED STRUCTURE, ELECTRICAL CONDUIT, AND MECHANICAL SYSTEMS TO BE PAINTED. SEE CEILING TAG FOR FINISH. PAINT ADJACENT WALLS DOWN TO BOTTOM OF STRUCTURE TO MATCH.

F. LINEAR WOOD CEILING, SEE FINISH SCHEDULE.

G. EXTERIOR METAL PANEL SYSTEM MP-1A, SEE EXTERIOR ELEVATIONS FOR FINISH INFORMATION

KEYNOTES - REFLECTED CEILING PLAN

(#)

2 PAINT UNDERSIDE OF STAIRS, PT-6.

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Valley City, ND 58072

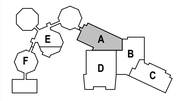
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222 EAST MAIN STREET, SUITE B
MANDAN, ND 58554
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2201 12TH STREET NORTH, SUITE E
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LICENSED ARCHITECT
BRIAN BRENNAN
(18459)
Date 03/10/26
STATE OF NORTH DAKOTA

DRAWING HISTORY

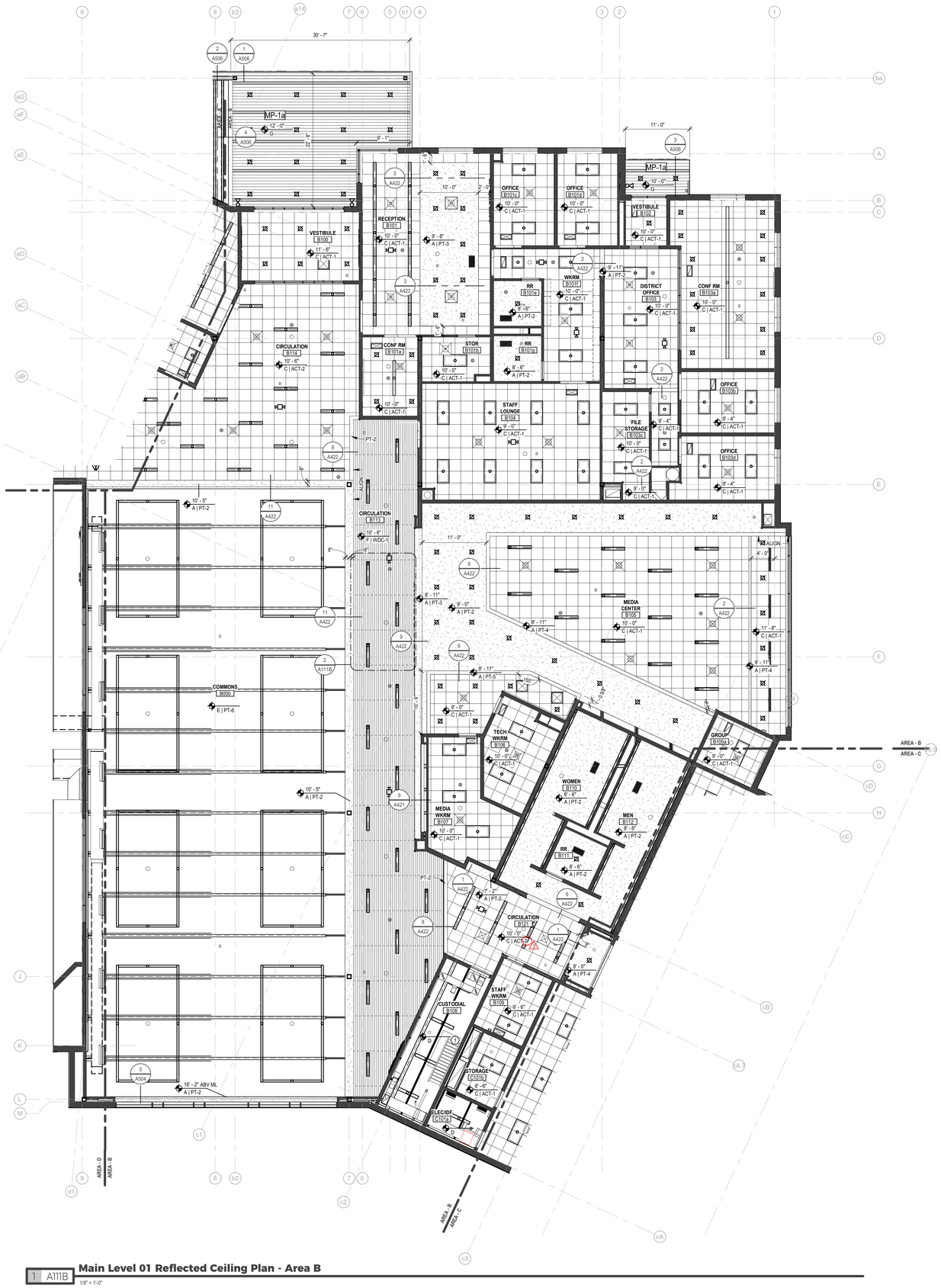
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

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Main Level 01 Reflected Ceiling Plan - Area A

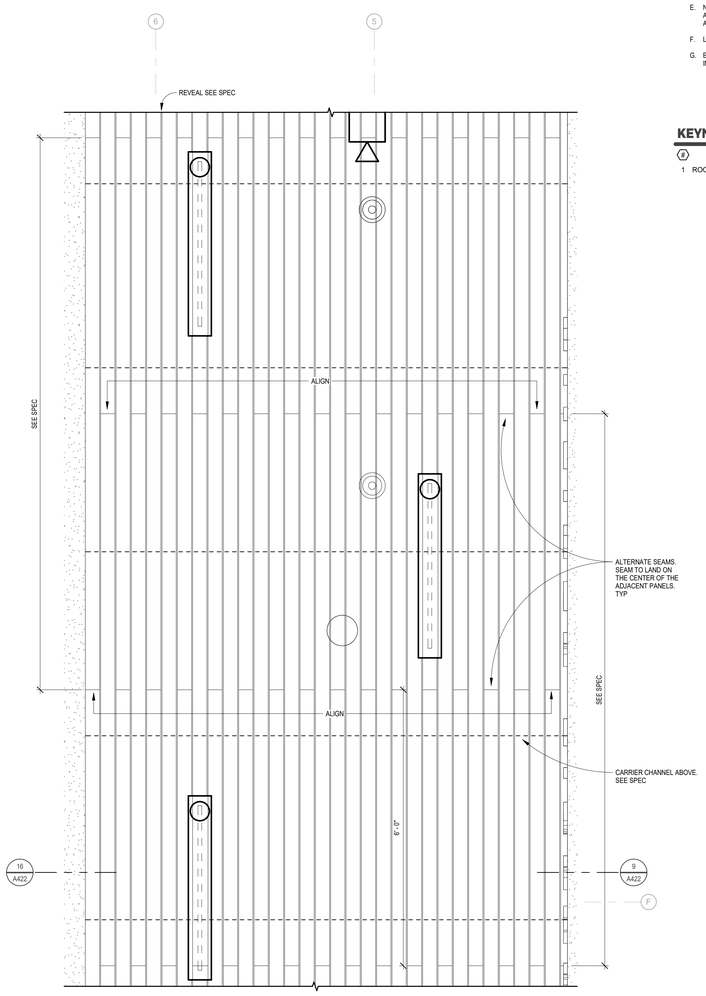
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1 A111B **Main Level 01 Reflected Ceiling Plan - Area B**

1/8" = 1'-0"



2 A111B **FEATURE CEILING TYPICAL PANEL LAYOUT**

3/4" = 1'-0"

GENERAL NOTES - RCP

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND COORDINATE PRIOR TO INSTALLATION.
2. WALLS TO EXTEND TO DECK ABOVE, AS PER WALL ASSEMBLIES. CUT AROUND STEEL BEAMS AND/OR TRUSSES AS REQUIRED. UTILIZE SLIP TRACK AT HEAD AT ALL STEEL STUD PARTITIONS. (SEE CODE STUDY FOR RATED WALL LOCATIONS.)
3. ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF REGULAR CEILING TILES, UON. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND SPRINKLER HEADS.
4. LIGHTS AND GRIDS ARE TYPICALLY CENTERED IN ROOMS, OR BETWEEN SELECT WALLS WITHIN A GIVEN AREA, UNO. COORDINATE EACH AREA WITH ELECTRICAL SHEETS AND FIELD VERIFICATION PRIOR TO INSTALL. LIGHT LOCATIONS GOVERN OVER OTHER MECHANICAL AND ELECTRICAL DEVICES.
5. GRID LAYOUT SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY THE FINAL LAYOUT WITH FIELD CONDITIONS AND OBTAIN ARCHITECT APPROVAL OF CHANGES PRIOR TO INSTALLATION.
6. PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL SEPARATIONS.
7. COORDINATE EXIT LIGHT LOCATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CORRECT PLACEMENT OF ALL REQUIRED EXIT LIGHTS AND MEANS OF EGRESS LIGHTING.
8. PROVIDE HOLD DOWN CLIPS AT SUSPENDED CEILING ASSEMBLIES AT EXTERIOR DOORS AS RECOMMENDED BY CEILING MANUFACTURER
9. AT ACOUSTICAL DECK LOCATIONS, WEDGE HANGERS TO BE USED FOR ALL ROOF OR FLOOR HUNG ITEMS. (SUSPENDED CEILINGS, PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC.) SEE A092 FOR ASSEMBLIES.
10. FOR CEILING FINISH ABOVE LOCKERS, SEE 2 /A421 AND 3 /A421

REFLECTED CEILING PLAN LEGEND

CEILING TAG: 1' - 0" / A | PT-4 — INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR. FINISH, SEE FINISH SCHEDULE. INDICATES CEILING MAKE-UP. REFER TO MAKE-UP NOTES BELOW FOR DESCRIPTION.

A. 5/8" GYPSUM BOARD ON LIGHT GAUGE FRAMING.
B. TYPE SCII WALL ASSEMBLY TIGHT TO BOTTOM OF STAIR ASSEMBLY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SEE VERT. CIRCULATION SHEETS AND A091. 1 HR RATED WALL ASSEMBLY
C. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. SEE FINISH SCHEDULE.
D. NO CEILING IN THIS ROOM / AREA
E. NO CEILING IN THIS ROOM / AREA. EXPOSED STRUCTURE. ELECTRICAL CONDUIT, AND MECHANICAL SYSTEMS TO BE PAINTED. SEE CEILING TAG FOR FINISH. PAINT ADJACENT WALLS DOWN TO BOTTOM OF STRUCTURE TO MATCH.
F. LINEAR WOOD CEILING, SEE FINISH SCHEDULE.
G. EXTERIOR METAL PANEL SYSTEM MP-1A, SEE EXTERIOR ELEVATIONS FOR FINISH INFORMATION

KEYNOTES - REFLECTED CEILING PLAN

1 ROOF HATCH OPENING

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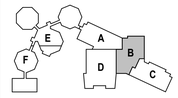
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222 EAST MAIN STREET, SUITE B
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LICENSED ARCHITECT — HEIDI BRENNAN — (8591) — STATE OF NORTH DAKOTA
Date 03/10/26

DRAWING HISTORY

NO.	DESCRIPTION	DATE
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1	Addendum #1	03/17/26

DRAWN BY: AS/HO/JT JN: 24-028

Main Level 01 Reflected Ceiling Plan - Area B

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1 A111C **Main Level 01 Reflected Ceiling Plan - Area C**
1/8" = 1'-0"

GENERAL NOTES - RCP

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND COORDINATE PRIOR TO INSTALLATION.
2. WALLS TO EXTEND TO DECK ABOVE, AS PER WALL ASSEMBLIES. CUT AROUND STEEL BEAMS AND/OR TRUSSES AS REQUIRED. UTILIZE SLIP TRACK AT HEAD AT ALL STEEL STUD PARTITIONS. (SEE CODE STUDY FOR RATED WALL LOCATIONS.)
3. ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF REGULAR CEILING TILES, UON. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND SPRINKLER HEADS.
4. LIGHTS AND GRIDS ARE TYPICALLY CENTERED IN ROOMS, OR BETWEEN SELECT WALLS WITHIN A GIVEN AREA, UNO. COORDINATE EACH AREA WITH ELECTRICAL SHEETS AND FIELD VERIFICATION PRIOR TO INSTALL. LIGHT LOCATIONS GOVERN OVER OTHER MECHANICAL AND ELECTRICAL DEVICES.
5. GRID LAYOUT SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR SHALL VERIFY THE FINAL LAYOUT WITH FIELD CONDITIONS AND OBTAIN ARCHITECT APPROVAL OF CHANGES PRIOR TO INSTALLATION.
6. PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL SEPARATIONS.
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9. AT ACOUSTICAL DECK LOCATIONS, WEDGE HANGERS TO BE USED FOR ALL ROOF OR FLOOR HUNG ITEMS. (SUSPENDED CEILINGS, PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC.) SEE A092 FOR ASSEMBLIES.
10. FOR CEILING FINISH ABOVE LOCKERS, SEE 2 /A421 AND 3 /A421

REFLECTED CEILING PLAN LEGEND

CEILING TAG: 9'-0" / A | PT-4
- 9'-0" — INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR.
- A | PT-4 — FINISH, SEE FINISH SCHEDULE.
- INDICATES CEILING MAKE-UP. REFER TO MAKE-UP NOTES BELOW FOR DESCRIPTION.

A. 5/8" GYPSUM BOARD ON LIGHT GAUGE FRAMING.

B. TYPE SC6 WALL ASSEMBLY TIGHT TO BOTTOM OF STAIR ASSEMBLY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SEE VERT. CIRCULATION SHEETS AND A091. 1 HR RATED WALL ASSEMBLY

C. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. SEE FINISH SCHEDULE.

D. NO CEILING IN THIS ROOM / AREA

E. NO CEILING IN THIS ROOM / AREA. EXPOSED STRUCTURE, ELECTRICAL CONDUIT, AND MECHANICAL SYSTEMS TO BE PAINTED. SEE CEILING TAG FOR FINISH. PAINT ADJACENT WALLS DOWN TO BOTTOM OF STRUCTURE TO MATCH.

F. LINEAR WOOD CEILING, SEE FINISH SCHEDULE.

G. EXTERIOR METAL PANEL SYSTEM MP-1A, SEE EXTERIOR ELEVATIONS FOR FINISH INFORMATION

KEYNOTES - REFLECTED CEILING PLAN

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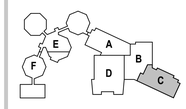
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2201 12TH STREET NORTH, SUITE E
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LICENSED ARCHITECT
JAYDI BRUNER
(8539)
Date 03/10/26
STATE OF NORTH DAKOTA

DRAWING HISTORY

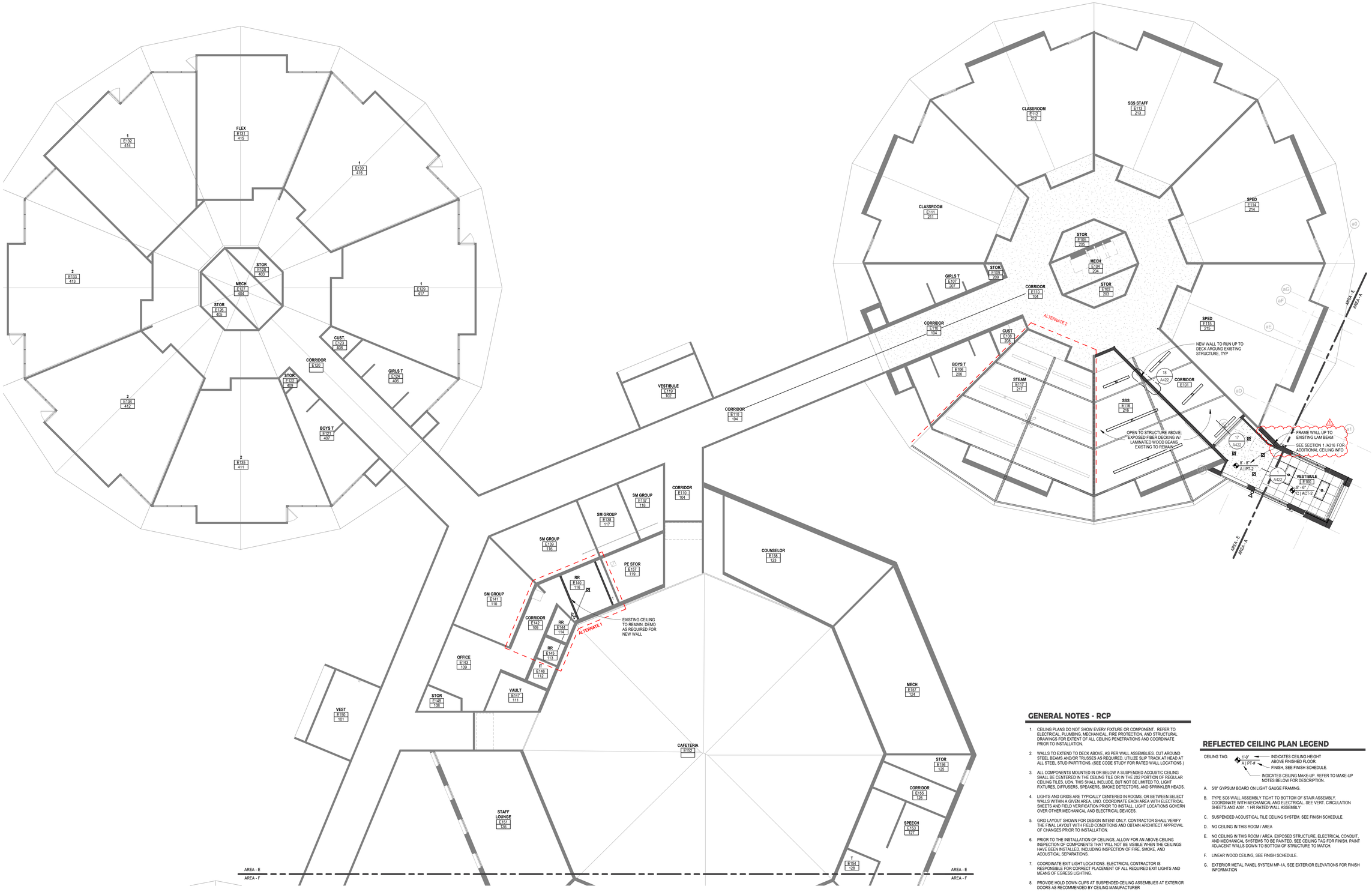
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
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Main Level 01 Reflected Ceiling Plan - Area C

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A111C

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1 A111E **Main Level 01 Reflected Ceiling Plan - Area E**

1/8" = 1'-0"

GENERAL NOTES - RCP

1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND COORDINATE PRIOR TO INSTALLATION.
2. WALLS TO EXTEND TO DECK ABOVE, AS PER WALL ASSEMBLIES. CUT AROUND STEEL BEAMS AND/OR TRUSSES AS REQUIRED. UTILIZE SLIP TRACK AT HEAD AT ALL STEEL STUD PARTITIONS. (SEE CODE STUDY FOR RATED WALL LOCATIONS.)
3. ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF REGULAR CEILING TILES, UON. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND SPRINKLER HEADS.
4. LIGHTS AND GRIDS ARE TYPICALLY CENTERED IN ROOMS, OR BETWEEN SELECT WALLS WITHIN A GIVEN AREA, UNO. COORDINATE EACH AREA WITH ELECTRICAL SHEETS AND FIELD VERIFICATION PRIOR TO INSTALL. LIGHT LOCATIONS GOVERN OVER OTHER MECHANICAL AND ELECTRICAL DEVICES.
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10. FOR CEILING FINISH ABOVE LOCKERS, SEE 2 /A421 AND 3 /A421

REFLECTED CEILING PLAN LEGEND

CEILING TAG: F-0" | A | PT-# — INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR. FINISH, SEE FINISH SCHEDULE. INDICATES CEILING MAKE-UP. REFER TO MAKE-UP NOTES BELOW FOR DESCRIPTION.

A. 5/8" GYPSUM BOARD ON LIGHT GAUGE FRAMING.

B. TYPE SC6 WALL ASSEMBLY TIGHT TO BOTTOM OF STAIR ASSEMBLY. COORDINATE WITH MECHANICAL AND ELECTRICAL. SEE VERT. CIRCULATION SHEETS AND A091. 1 HR RATED WALL ASSEMBLY

C. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM. SEE FINISH SCHEDULE.

D. NO CEILING IN THIS ROOM / AREA

E. NO CEILING IN THIS ROOM / AREA. EXPOSED STRUCTURE, ELECTRICAL CONDUIT, AND MECHANICAL SYSTEMS TO BE PAINTED. SEE CEILING TAG FOR FINISH. PAINT ADJACENT WALLS DOWN TO BOTTOM OF STRUCTURE TO MATCH.

F. LINEAR WOOD CEILING, SEE FINISH SCHEDULE.

G. EXTERIOR METAL PANEL SYSTEM MP-1A, SEE EXTERIOR ELEVATIONS FOR FINISH INFORMATION

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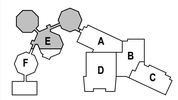
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ICON ARCHITECTURAL GROUP
222 EAST MAIN STREET, SUITE B
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2201 12TH STREET NORTH, SUITE E
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LICENSED ARCHITECT 18591 BRENT HOVING STATE OF NORTH DAKOTA
Date 03/10/26

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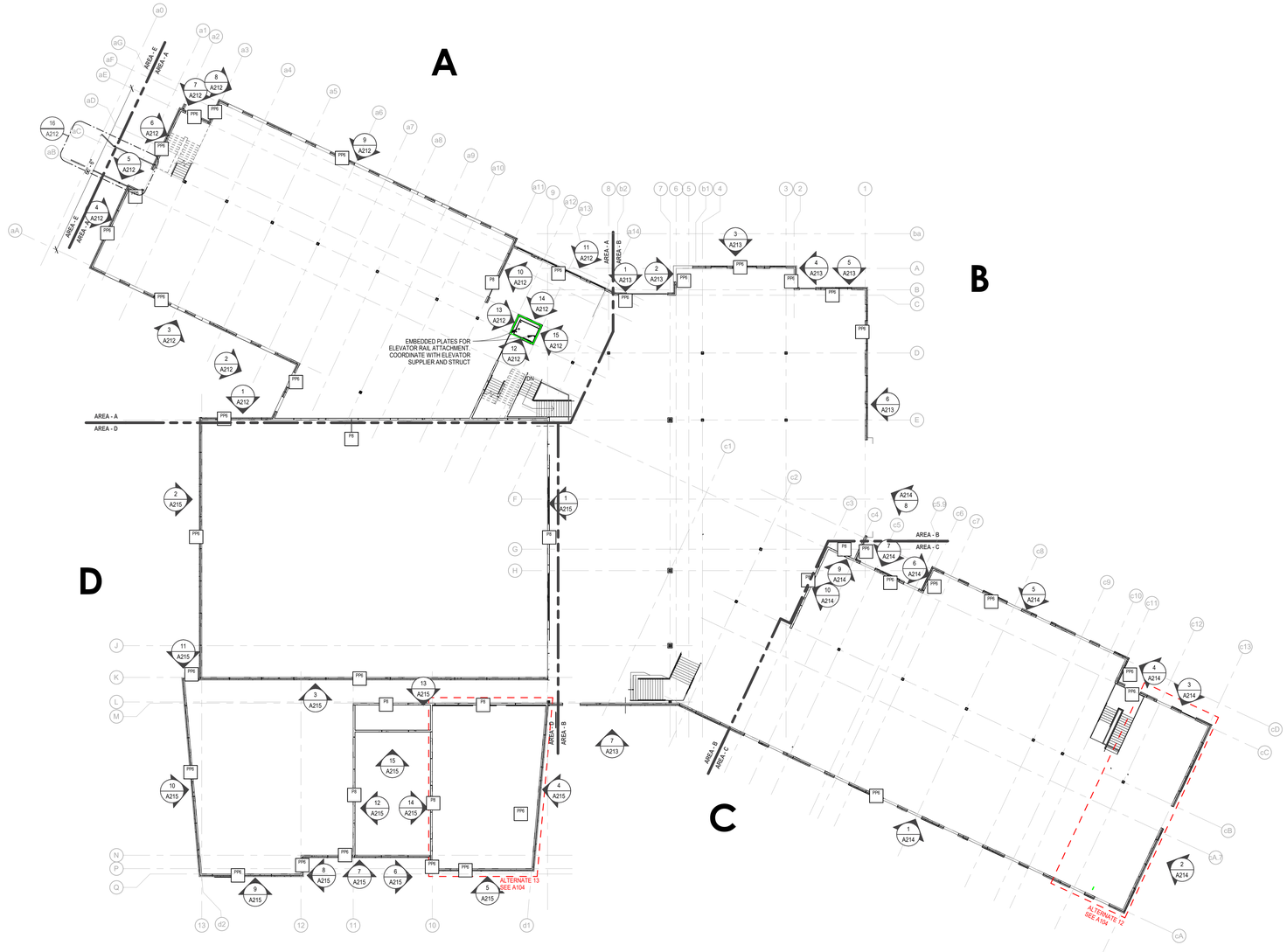
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	CONSTRUCTION DOCUMENTS	03/10/26
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Main Level 01 Reflected Ceiling Plan - Area E

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A111E

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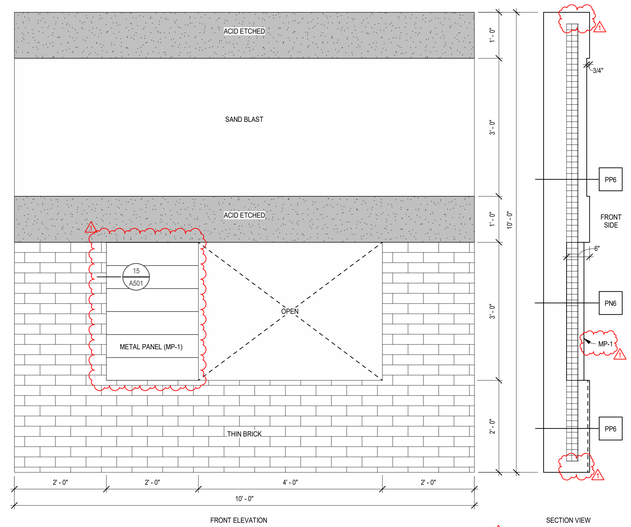
1 A211 **Main Level 01 - Overall Plan -Precast**
1" = 20'-0"

GENERAL NOTES - PRECAST ELEVATIONS

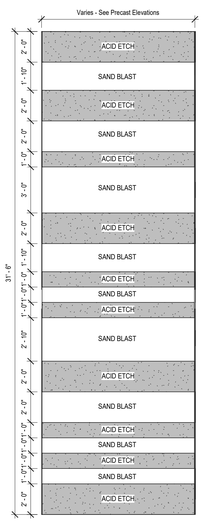
1. PRECAST CORNER DETAILS LOCATED ON SHEET A503
2. EMBED ELECTRICAL CONDUIT & J-BOX INTO PRECAST. FOR WALL MOUNTED RECEPTACLES SEE ELECTRICAL FOR QUANTITIES AND LOCATIONS
3. EMBED ELECTRICAL CONDUIT & J-BOX INTO PRECAST FOR LIGHT FIXTURES IN STAIRWELLS AND EXTERIOR LIGHT FIXTURES. SEE ELECTRICAL FOR QUANTITIES AND LOCATIONS
4. NOMINAL OPENINGS ARE SHOWN. COORDINATE ACTUAL ROUGH OPENINGS WITH PRECAST MANUFACTURER STANDARD

PRECAST FINISH KEY

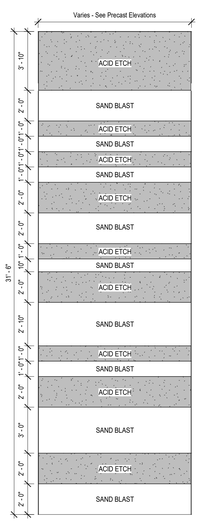
- SAND BLAST FINISH
- ACID ETCH FINISH
  BY ALT #11: POLISHED CONCRETE
- THIN BRICK
- PRECASTER TO OMIT 3" ARCHITECTURAL CONCRETE AND RIGID INSULATION. SEE WALL ASSEMBLIES AND DETAILS 7 /A504 AND 2 /A504
- STRUCTURAL CONNECTION ON FRONT OR BACK SIDE OF PRECAST, SEE STRUCTURAL FOR LOCATIONS AND DETAILS



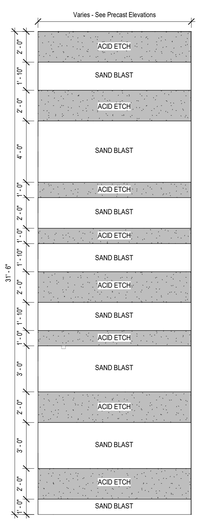
2 A211 **Wall Assembly Mockup**
3/4" = 1'-0" TO BE REUSED AS SIGNAGE AFTER MOCKUP APPROVED



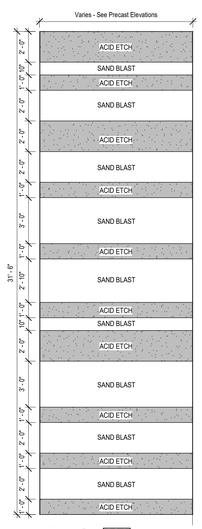
3 A211 **Panel A** PC-2
1/4" = 1'-0"



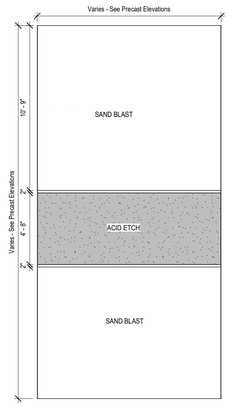
4 A211 **Panel B** PC-2
1/4" = 1'-0"



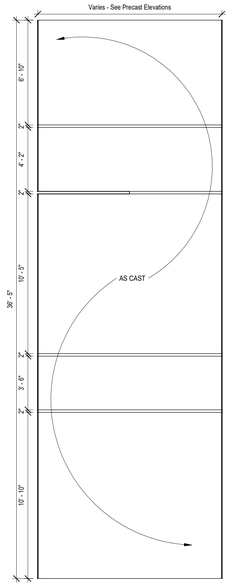
5 A211 **Panel C** PC-2
1/4" = 1'-0"



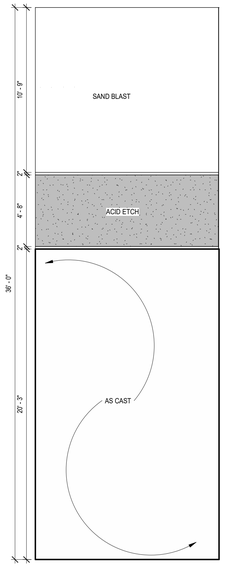
6 A211 **Panel D** PC-2
1/4" = 1'-0"



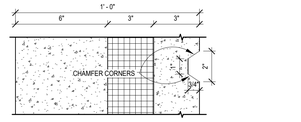
7 A211 **Panel E** PC-3
1/4" = 1'-0"



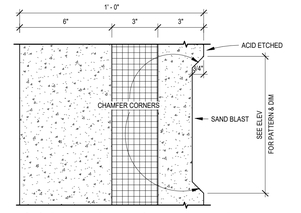
8 A211 **Panel F**
1/4" = 1'-0"



9 A211 **Panel G** PC-3
1/4" = 1'-0"



10 A211 **Reveal Depth Section on Panel E**
3" = 1'-0"



11 A211 **Finish Depth Section on Panel A-D**
3" = 1'-0"

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(8591)
Date 03/10/26
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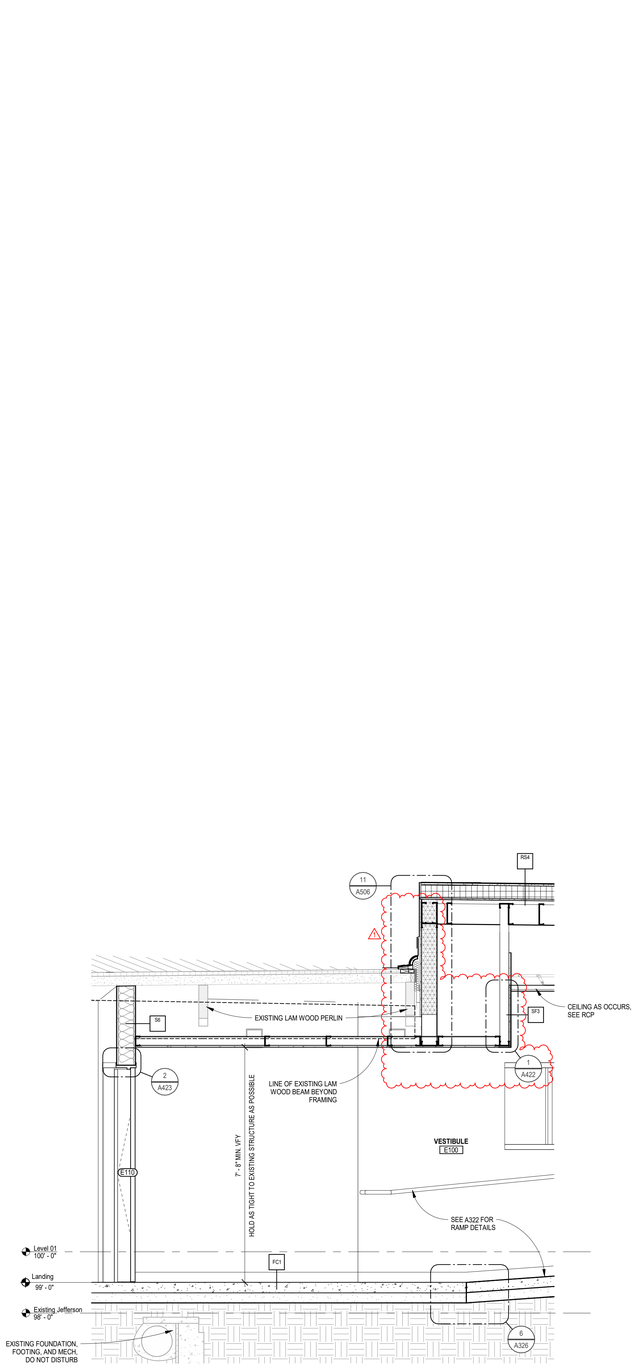
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1	Addendum #1	03/17/26

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Overall Precast Plans

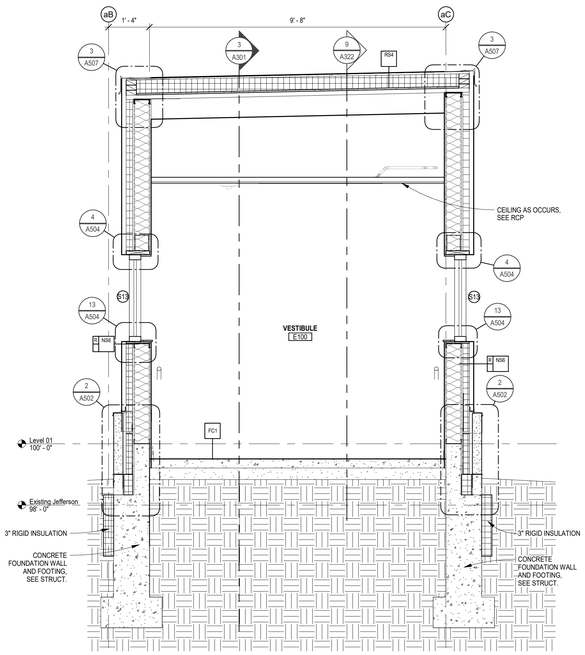
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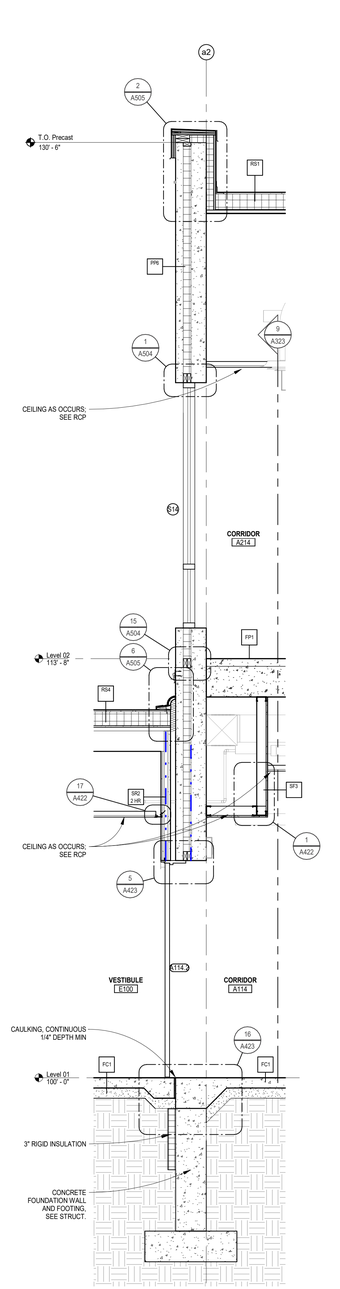
1 A316 **Section at Jefferson Connection**

1/2" = 1'-0"



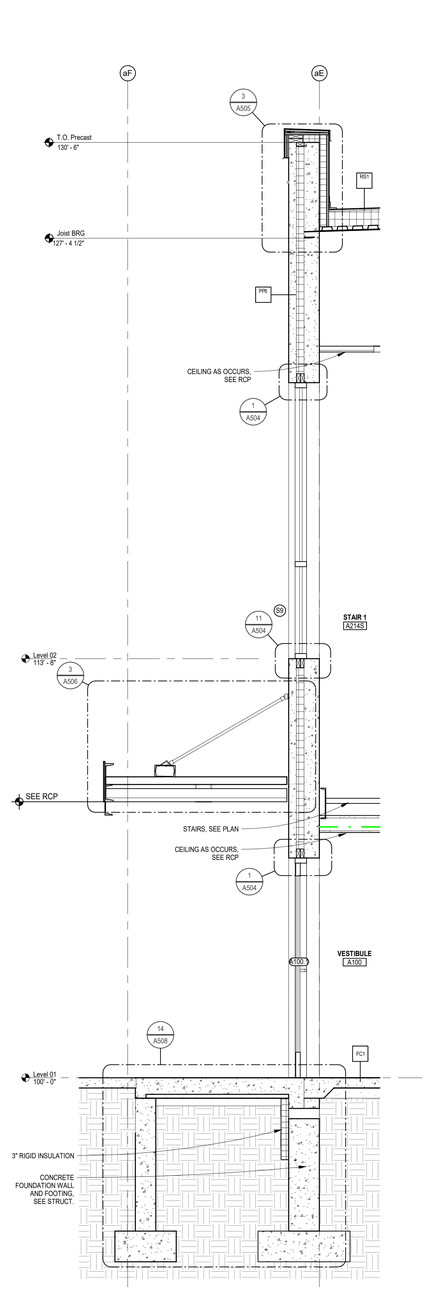
2 A316 **Section at Area E - Vestibule Connection**

1/2" = 1'-0"



3 A316 **Section at Area A - Connection**

1/2" = 1'-0"



4 A316 **Section at Area A - Vestibule / Stair 1**

1/2" = 1'-0"

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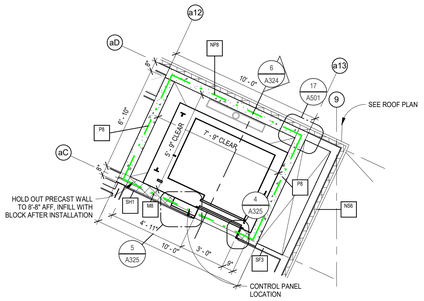
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1	Addendum #1	03/17/26

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Wall Sections

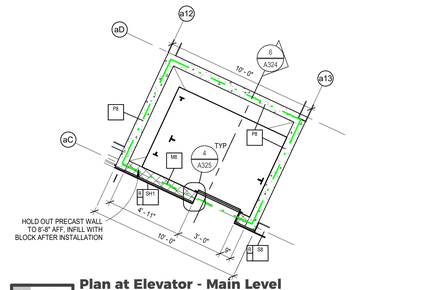
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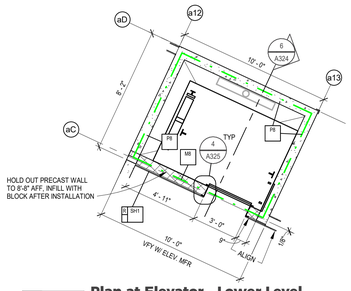
1 A324 **Plan at Elevator - Upper Level**

1/4" = 1'-0"



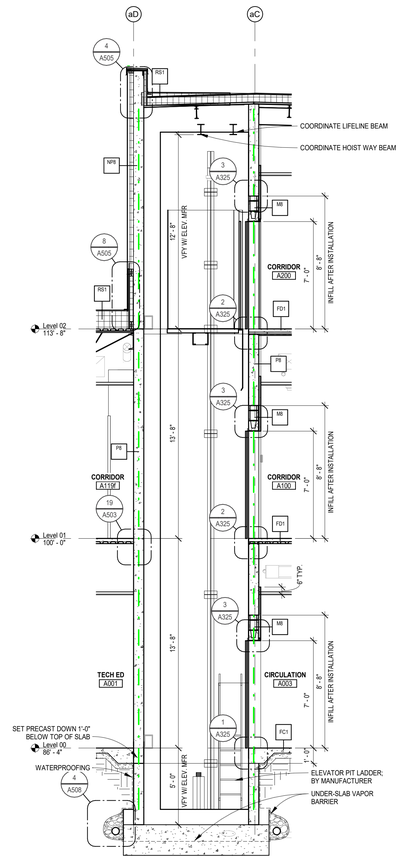
4 A324 **Plan at Elevator - Main Level**

1/4" = 1'-0"



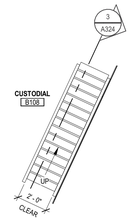
5 A324 **Plan at Elevator - Lower Level**

1/4" = 1'-0"



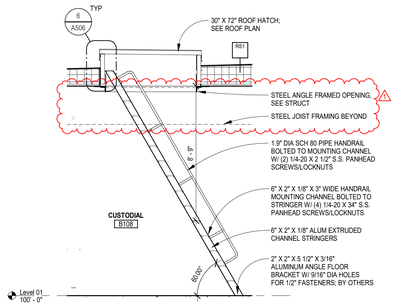
6 A324 **Section at Elevator**

1/4" = 1'-0"



2 A324 **Enlarged Ships Ladder**

1/4" = 1'-0"



3 A324 **Section at Ships Ladder**

1/4" = 1'-0"

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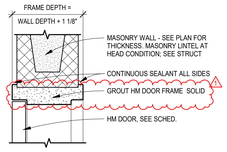
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1	Addendum #1	03/17/26

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Circulation Sections & Enlarged Plans

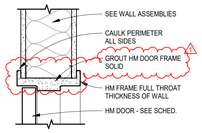
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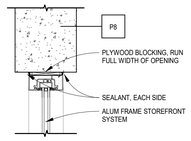
1 A423 HM Door Head at CMU Wall

1 1/2" = 1'-0"



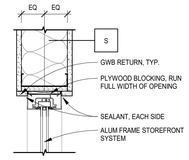
2 A423 HM Door Head at Stud, Jamb Sim

1 1/2" = 1'-0"



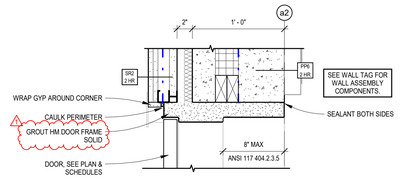
3 A423 Storefront Head/Jamb at Interior P8

1 1/2" = 1'-0"



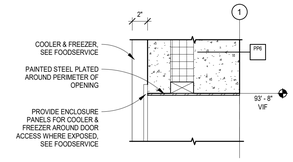
4 A423 Storefront Head/Jamb at Interior

1 1/2" = 1'-0"



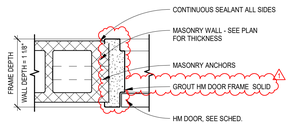
5 A423 HM Head/Jamb at SR2 / PP6

1 1/2" = 1'-0"



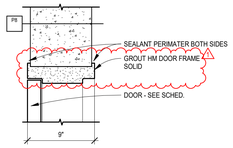
6 A423 Head at PP6 at Cooler/Freezer

1 1/2" = 1'-0"



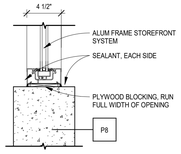
7 A423 HM Door Jamb at CMU Wall

1 1/2" = 1'-0"



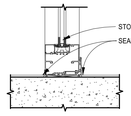
8 A423 HM Door Head/Jamb at P8

1 1/2" = 1'-0"



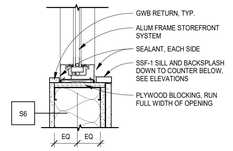
9 A423 Storefront Sill at Interior P8

1 1/2" = 1'-0"



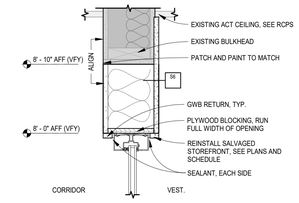
10 A423 Storefront Sill at Interior

1 1/2" = 1'-0"



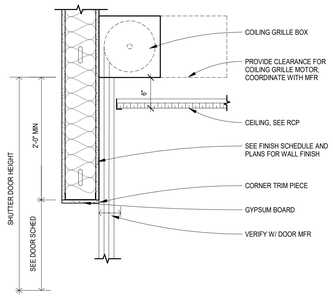
11 A423 Storefront Sill at Interior - Art

1 1/2" = 1'-0"



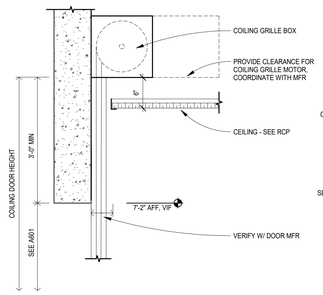
12 A423 Head at F100

1 1/2" = 1'-0"



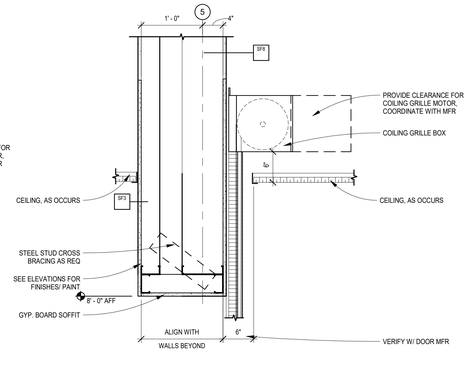
13 A423 Coiling Door Head at Dish Return

1" = 1'-0"



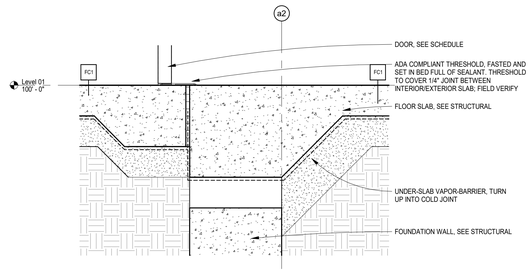
14 A423 Coiling Door Head at Concessions

1" = 1'-0"



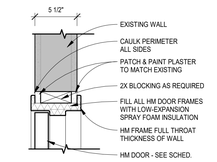
15 A423 OH Coiling Door Head at Servery Typ.

1" = 1'-0"



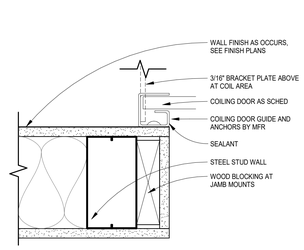
16 A423 Base @ Firewall Connection

1 1/2" = 1'-0"



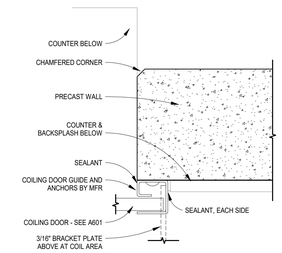
17 A423 HM Door Head at Existing

1 1/2" = 1'-0"



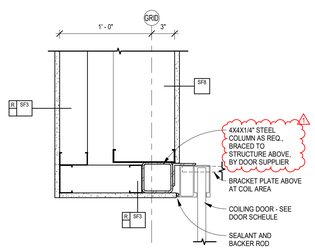
18 A423 Coiling Door Jamb at Dish Return

3" = 1'-0"



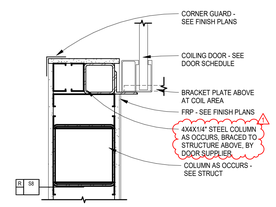
19 A423 Coiling Door Jamb at Concessions

3" = 1'-0"



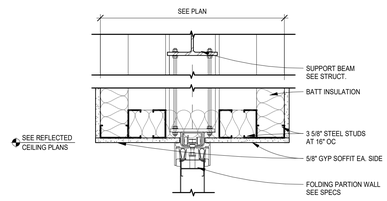
20 A423 OH Coiling Door Jamb at Servery

1 1/2" = 1'-0"



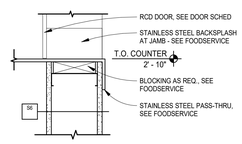
21 A423 OH Coiling Door Jamb at Servery

1 1/2" = 1'-0"



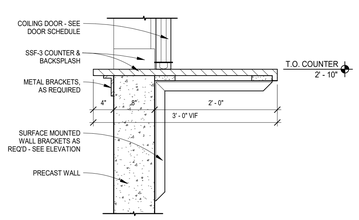
22 A423 Operable Partition Track Head

1 1/2" = 1'-0"



23 A423 Coiling Door Sill at Dish Return

1 1/2" = 1'-0"



24 A423 Coiling Door Sill at Concessions

1" = 1'-0"

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LICENSED ARCHITECT
JEFFREY J. BRENNAN
(18159)
STATE OF NORTH DAKOTA
Date 03/10/26

DRAWING HISTORY

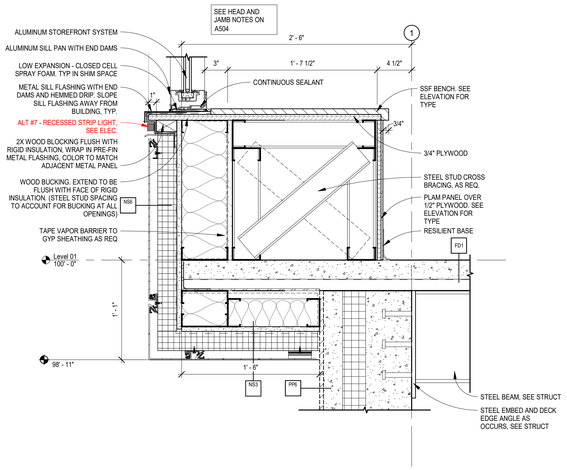
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

DRAWN BY: AS/HQ/JT JN: 24-028

Details - Interior Openings

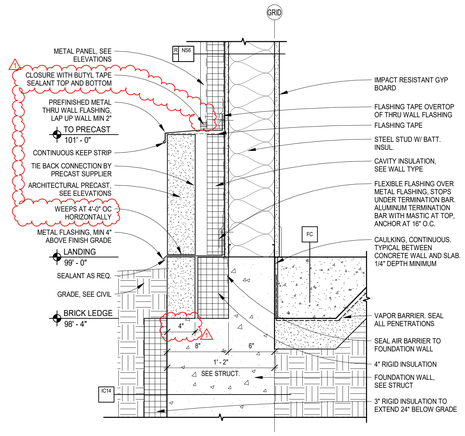
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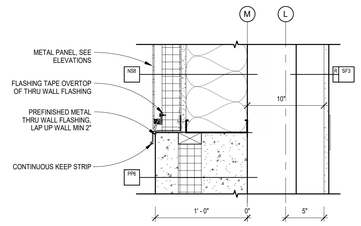
1 A502 **Section at Media Cantilever & Built in Bench**

1 1/2" = 1'-0"



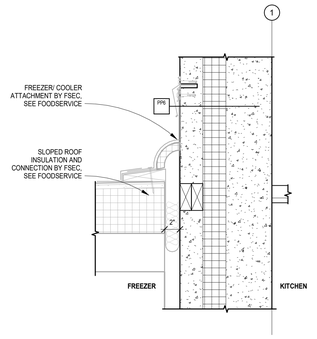
2 A502 **Precast Ledge at NS Wall**

1 1/2" = 1'-0"



3 A502 **Section at PP6 to NS8 Transition**

1 1/2" = 1'-0"



4 A502 **Roof Detail at Cooler/Freezer**

1 1/2" = 1'-0"

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8591
STATE OF NORTH DAKOTA
Date: 03/10/26

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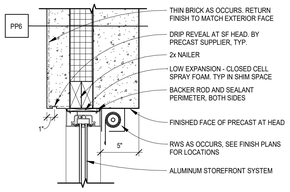
NO.	DESCRIPTION	DATE
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Details - Exterior Wall

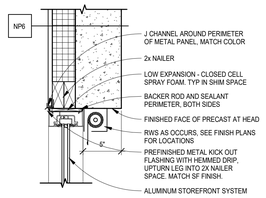
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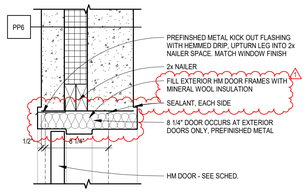
1 A504 **Storefront Head at Precast**

1 1/2" = 1'-0"



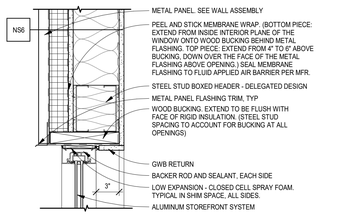
2 A504 **Storefront Head at Precast w/ Metal Panel**

1 1/2" = 1'-0"



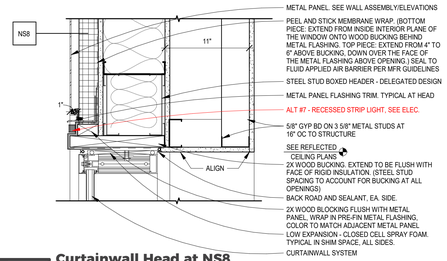
3 A504 **HM Door Head at Precast**

1 1/2" = 1'-0"



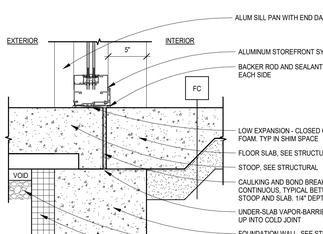
4 A504 **Storefront Head at NS6**

1 1/2" = 1'-0"



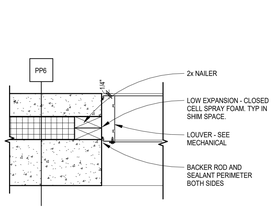
5 A504 **Curtainwall Head at NS8**

1 1/2" = 1'-0"



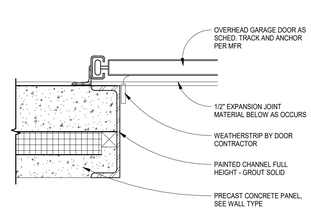
6 A504 **Storefront Jamb at Precast**

1 1/2" = 1'-0"



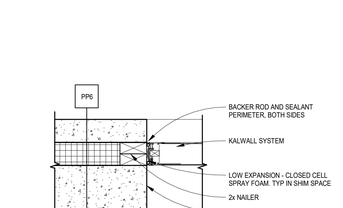
7 A504 **Storefront Sill at Precast w/ Metal Panel**

1 1/2" = 1'-0"



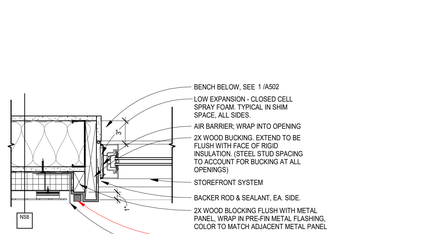
8 A504 **HM Door Jamb at Precast**

1 1/2" = 1'-0"



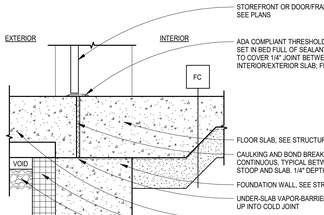
9 A504 **Storefront Jamb at NS6**

1 1/2" = 1'-0"



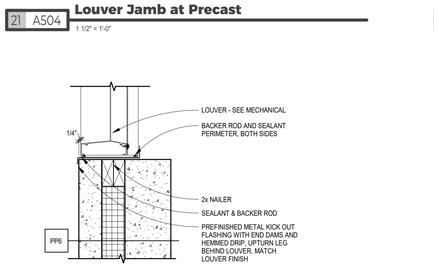
10 A504 **Curtainwall Jamb at NS8**

1 1/2" = 1'-0"



11 A504 **Storefront Sill at Precast**

1 1/2" = 1'-0"

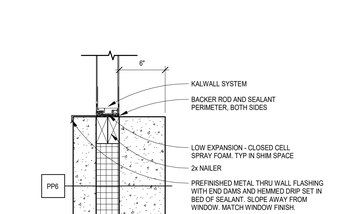


12 A504 **Storefront Sill at Grade at Precast**

1 1/2" = 1'-0"

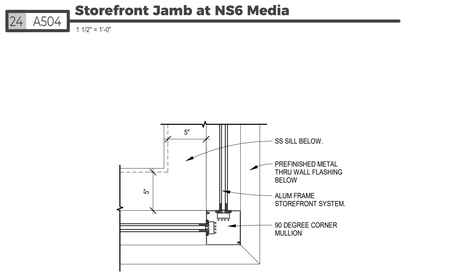
17 A504 **OH Door Head at Precast**

1 1/2" = 1'-0"



13 A504 **Storefront Sill at NS6**

1 1/2" = 1'-0"



14 A504 **Curtainwall Sill at Precast**

1 1/2" = 1'-0"

15 A504 **Storefront Sill at Precast at Floor**

1 1/2" = 1'-0"

16 A504 **Louver Head at Precast**

1 1/2" = 1'-0"

19 A504 **Storefront Head at NS6 Media**

1 1/2" = 1'-0"

20 A504 **Storefront Sill at Precast at Stoop**

1 1/2" = 1'-0"

21 A504 **Louver Jamb at Precast**

1 1/2" = 1'-0"

22 A504 **OH Door Jamb at Precast**

1 1/2" = 1'-0"

23 A504 **Kalwall Jamb at Precast**

1 1/2" = 1'-0"

24 A504 **Storefront Jamb at NS6 Media**

1 1/2" = 1'-0"

25 A504 **Threshold Detail at Stoop**

1 1/2" = 1'-0"

26 A504 **Louver Sill at Precast**

1 1/2" = 1'-0"

27 A504 **OH Door Sill at Stoop**

1 1/2" = 1'-0"

28 A504 **Kalwall Sill at Precast**

1 1/2" = 1'-0"

29 A504 **Glazing Corner Detail**

1 1/2" = 1'-0"

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LICENSED ARCHITECT HEIDI BRENNAN 4830 STATE OF NORTH DAKOTA
Heidi Brennan
Date 03/10/26

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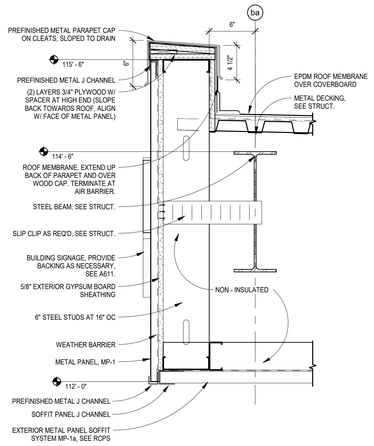
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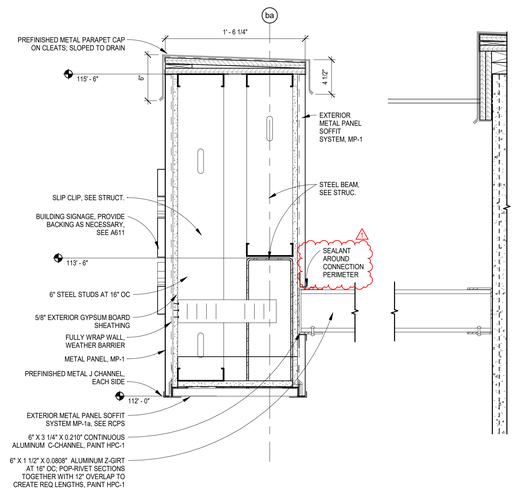
Details - Exterior Openings

SHEET
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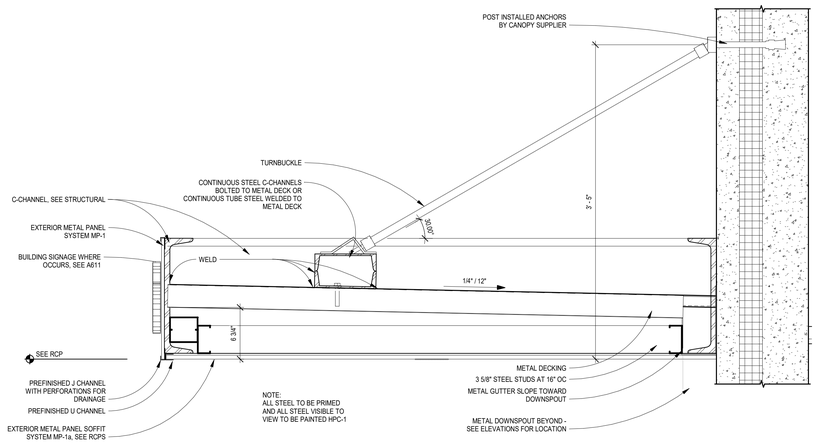
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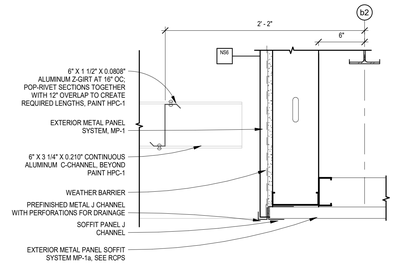
1 A506 **Canopy at Front Entrance**
1 1/2" = 1'-0"



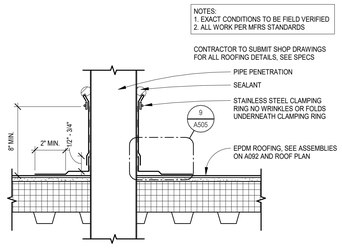
2 A506 **Canopy at Front Entrance Trellis**
1 1/2" = 1'-0"



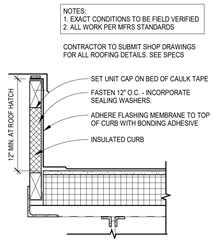
3 A506 **Canopy Section, Typ**
1 1/2" = 1'-0"



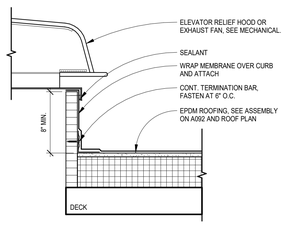
4 A506 **Section at Canopy**
1 1/2" = 1'-0"



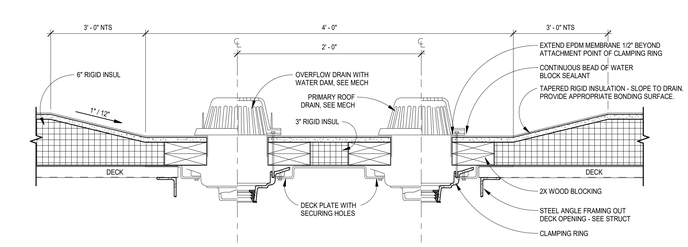
5 A506 **Pipe Flashing Detail, Typ**
1 1/2" = 1'-0"



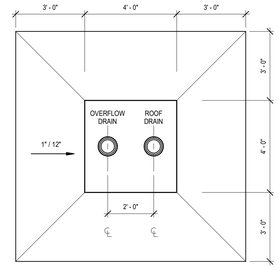
6 A506 **Curb Detail**
1 1/2" = 1'-0"



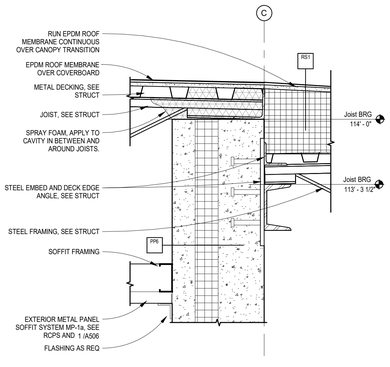
7 A506 **Pre-Fabricated Mech. Roof Curb**
1 1/2" = 1'-0"



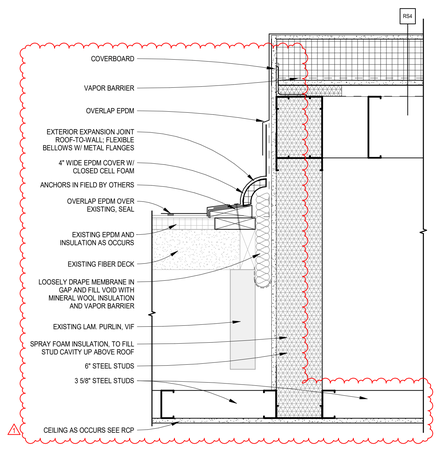
8 A506 **Roof Drain & Overflow Detail**
1 1/2" = 1'-0"



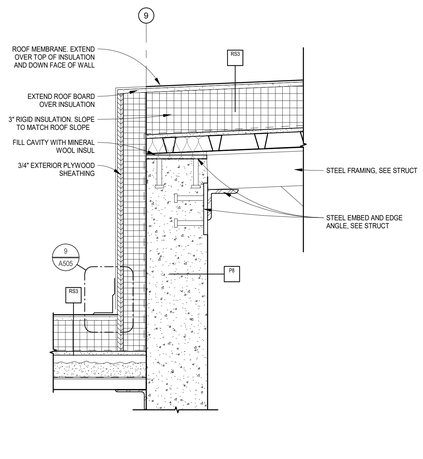
9 A506 **Roof Drain Plan Detail**
3/8" = 1'-0"



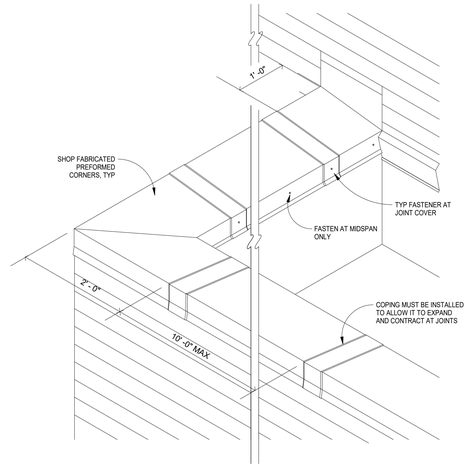
10 A506 **Entry Canopy Transition Detail**
1 1/2" = 1'-0"



11 A506 **Roof Connection at Jefferson**
1 1/2" = 1'-0"



12 A506 **Roof Edge at Gym / Commons**
1 1/2" = 1'-0"



13 A506 **COPING DETAILS**
3/4" = 1'-0"

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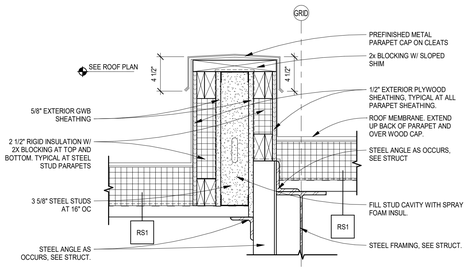
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Details - Roof Details

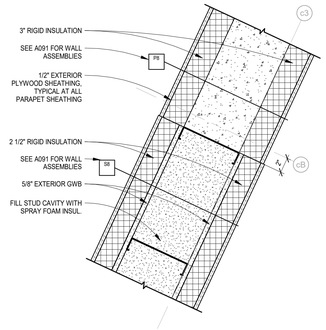
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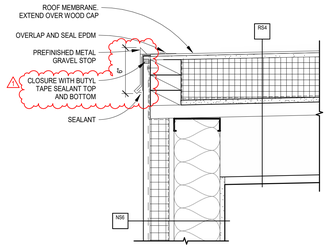
1 A507 Roof Curb Section at 3 5/8" Steel Stud

1 1/2" = 1'-0"



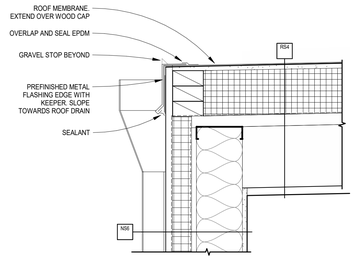
2 A507 Plan Detail at Roof Curb Transition

1 1/2" = 1'-0"



3 A507 Gravel Stop at Roof Edge

1 1/2" = 1'-0"



4 A507 Gutter at Gravel Stop

1 1/2" = 1'-0"

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HEIDI BRENNAS
8591
STATE OF NORTH DAKOTA
Date: 03/10/26

DRAWING HISTORY

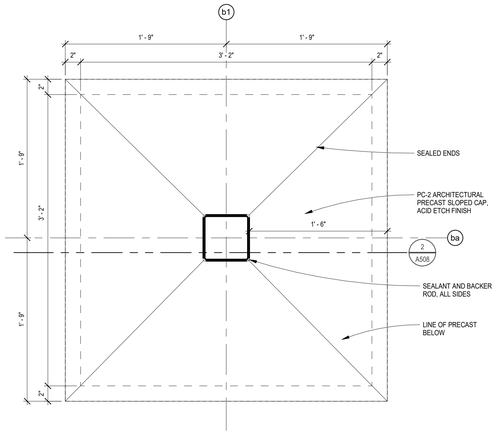
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

DRAWN BY: AS/HO/JT JN: 24-028

Details - Roof Details

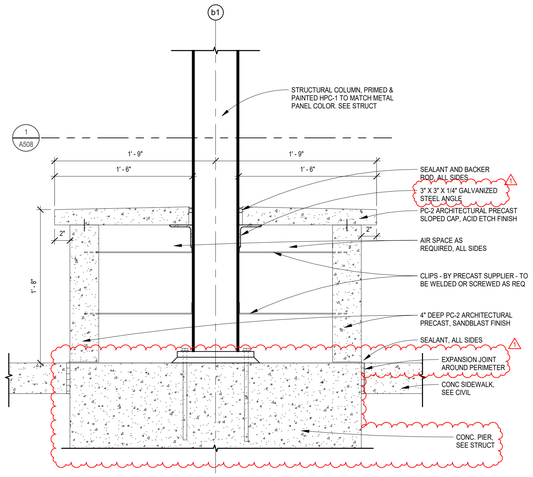
SHEET
A507

3/17/2026 11:47:19 AM Autodesk Docs://24-028 Valley City Public Schools High School/24-028 VCPS New PreK-12 School.rvt



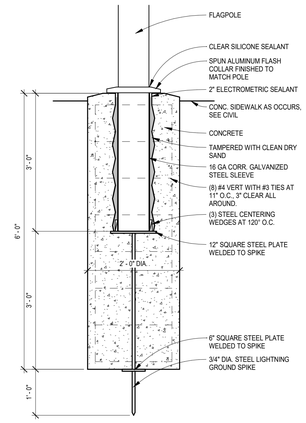
1 A508 **Plan at Exterior Column, Typ**

1 1/2" = 1'-0"



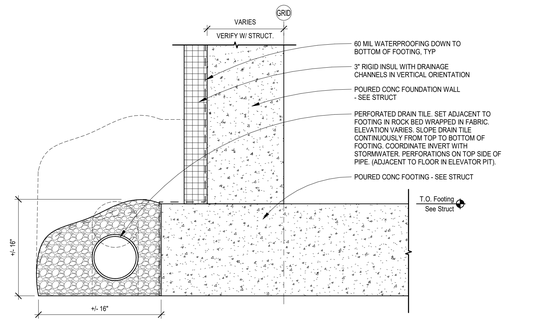
2 A508 **Section at Exterior Column, Typ**

1 1/2" = 1'-0"



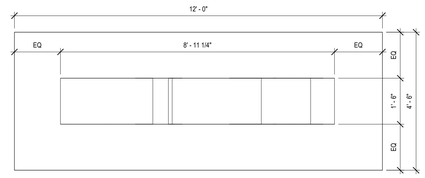
3 A508 **Flag Pole Base Detail**

3/4" = 1'-0"



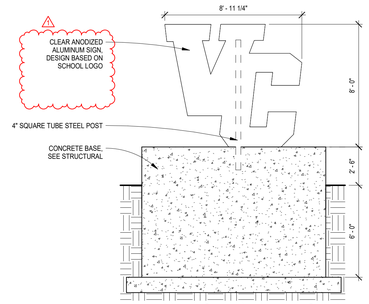
4 A508 **Drain Tile Detail, Typ**

1 1/2" = 1'-0"



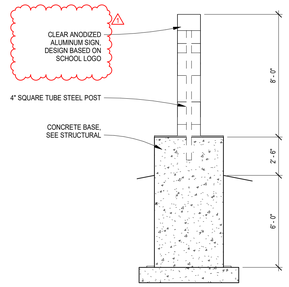
5 A508 **VC Monument Sign Plan - By Alt #8**

1/2" = 1'-0"



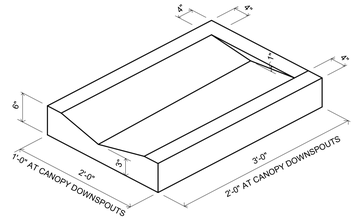
6 A508 **VC Monument Sign Elevation - By Alt #8**

1/4" = 1'-0"



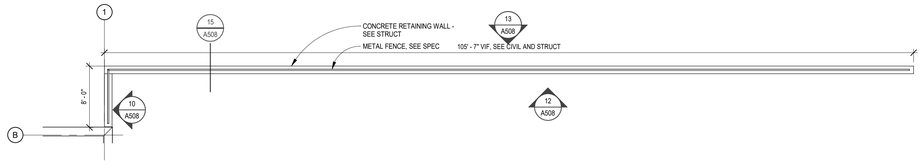
7 A508 **VC Monument Side Elev - By Alt #8**

1/4" = 1'-0"



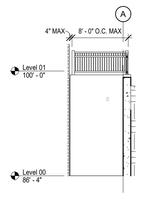
8 A508 **Concrete Splashblock**

1" = 1'-0"



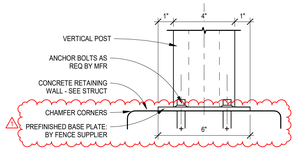
9 A508 **Enlarged Retaining Wall Plan**

1/8" = 1'-0"



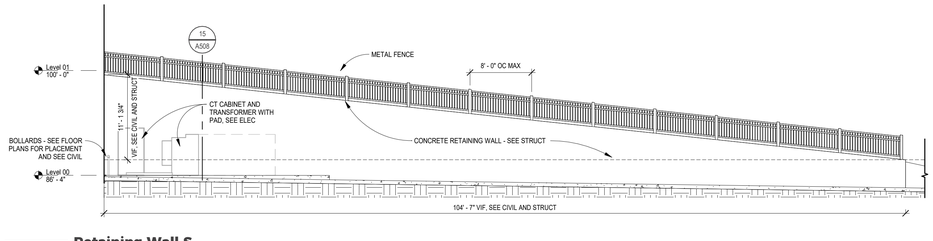
10 A508 **Retaining Wall E**

1/8" = 1'-0"



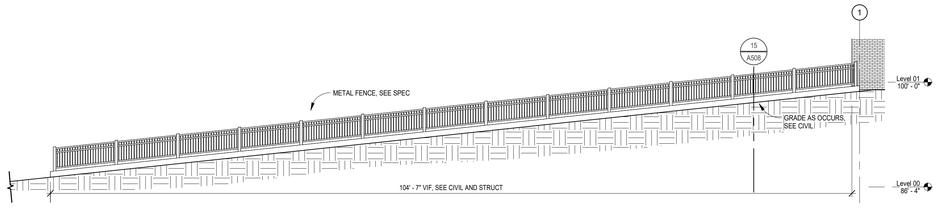
11 A508 **Typ. Fence Base Plate Detail**

3" = 1'-0"



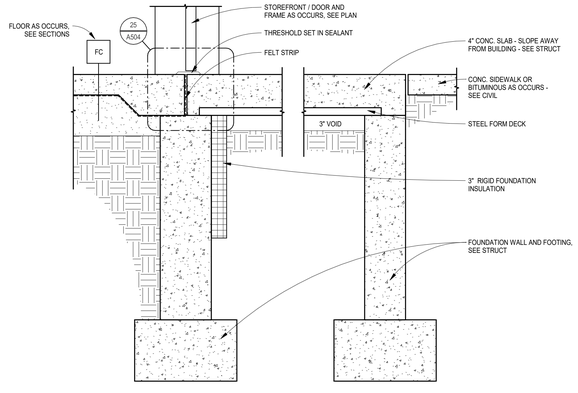
12 A508 **Retaining Wall S**

1/8" = 1'-0"



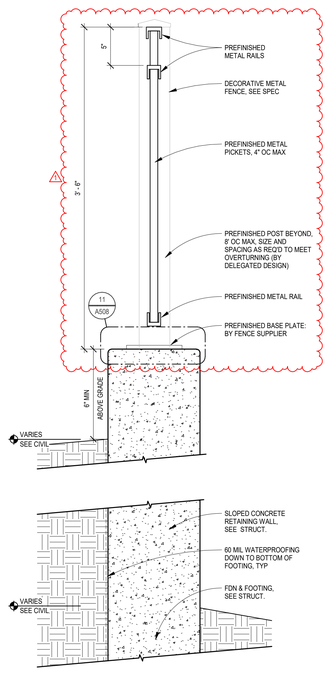
13 A508 **Retaining Wall N**

1/8" = 1'-0"



14 A508 **Section at Stoop Detail**

1" = 1'-0"



15 A508 **Section At Retaining Wall, Typ**

1 1/2" = 1'-0"

Autodesk Docs://24-028 Valley City Public Schools High School/24-028 VCPS New Prek-12 School.rvt
3/17/2026 11:47:20 AM

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Valley City, ND 58072

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FOODSERVICE

FOODSERVICE CONCEPT DESIGN
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SUITE 300 -7043
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(612) 325.1494 OFFICE

LICENSED ARCHITECT HEIDI BRENNAN LR591 STATE OF NORTH DAKOTA
Heidi Brennan
Date: 03/10/26

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

DRAWN BY: AS/HO/JT JN: 24-028

Details - Site

SHEET
A508

DOOR SCHEDULE - LOWER LEVEL 00

Door Number	Room	Exterior Door	Door Pair	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Door Glazing	Door Hardware	Fire Rating	Frame Type	Frame Material	Frame Finish	Comments
Area A																
A001	TECH ED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A002	ROBOTICS STORAGE		N	4' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		15		1	HM	PT-6	
Area B																
B000.1	COMMONS	Y	Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	36		C1	AL	-	
B001.1	ART		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		39		3	HM	PT-6	
B001.2	ART		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		40		3	HM	PT-6	
B001a	KILN		N	3' - 6"	7' - 0"	1 3/4"	F	HM	PT-6		03		1	HM	PT-6	
B001b	ART STOR		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		03		1	HM	PT-6	
B002	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
B003.1	RECEIVING		Y	6' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		45		2	HM	PT-6	
B003.2	RECEIVING	Y	-	8' - 0"	8' - 0"	2"	O.S.D.	STEEL	-		57		-	STEEL	-	MOTORIZED
B003a	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		02		4	HM	PT-6	
B004	BLDG STORAGE		Y	6' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		20		2	HM	PT-6	
B004a	STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		14		1	HM	PT-6	
B004b	DATA		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		15		1	HM	PT-6	
B005.1	MECHANICAL		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		46		2	HM	PT-6	
B005.2	MECHANICAL	Y	Y	6' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		50		1	HM	PT-6	
B005a	ELEC		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		47		1	HM	PT-6	
B006.1	VESTIBULE		Y	6' - 0"	7' - 0"	1 3/4"	N	HM	PT-6	GL-3	30		2	HM	PT-6	
B006.2	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	N	HM	PT-6	GL-1	34A		1	HM	PT-6	
B006.3	VESTIBULE		Y	6' - 0"	7' - 0"	1 3/4"	N	HM	PT-6	GL-3	30		2	HM	PT-6	
B008.1	SERVERY		N	14' - 0"	8' - 0"	1 1/4"	C.S.G.	ANODIZED ALUM	CLEAR		57		-	STEEL	PT-6	MOTORIZED
B008.2	SERVERY		N	14' - 0"	8' - 0"	1 1/4"	C.S.G.	ANODIZED ALUM	CLEAR		57		-	STEEL	PT-6	MOTORIZED
B008.3	SERVERY		N	14' - 0"	8' - 0"	1 1/4"	C.S.G.	ANODIZED ALUM	CLEAR		57		-	STEEL	PT-6	MOTORIZED
B009	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		5	HM	PT-6	
B010	DISH RETURN		N	4' - 8"	5' - 0"	1 1/2"	R.C.D.	ANODIZED ALUM	CLEAR		57		-	STEEL	PT-6	MOTORIZED
B011	DRY STORAGE		Y	5' - 0"	7' - 0"	1 3/4"	F	HM	PT-6		11		1	HM	PT-6	3' LEAF & 2' LEAF
B012.1	SCHOOL STORE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	09		SP	AL	-	
B012.2	SCHOOL STORE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		09		3	HM	PT-6	
B012a	STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		14		1	HM	PT-6	
B013	STAFF WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		07		1	HM	PT-6	
B014	CUST		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		17		1	HM	PT-6	
B016	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
Area C																
C000.1	VESTIBULE	Y	Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	35		S17	AL	-	
C000.2	VESTIBULE		Y	6' - 0"	7' - 0"	1 3/4"	FG	HM	PT-6	GL-3	55		1	HM	PT-6	
C001	BUSINESS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C001a	ELEC / IDF		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		15		1	HM	PT-6	
C001B	CORRIDOR		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28		1	HM	PT-6	
C002	ILC		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C003	SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		39		3	HM	PT-6	
C004.1	ALC		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C004.2	ALC	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	33		S15	AL	-	
C005	SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		39		3	HM	PT-6	
C006a	CALM		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	01		1	HM	PT-6	
C006b	GROUP		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SG	AL	-	
C007	1 SS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C008	1 MATH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C009	2 SS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C010	2 MATH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C011	3 SS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C012	3 MATH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C013	4 SS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	SEE ALTERNATE 12
C014	4 MATH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	SEE ALTERNATE 12
C015	GROUP		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SH	AL	-	
Area D																
D000.1	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	33		S2	AL	-	
D000.2	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	27		S2	AL	-	
D000.3	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	27		S2	AL	-	
D000.4	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	27		S2	AL	-	
D000.5	CORRIDOR		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	32		SA	AL	-	
D000.6	CORRIDOR		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	26		SA	AL	-	
D000.7	CORRIDOR		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	26		SA	AL	-	
D000.8	CORRIDOR		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	26		SA	AL	-	
D001	PRACTICE		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	05		1	HM	PT-6	
D002	WOMENS LOCKER ROOM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		56		1	HM	PT-6	
D002a	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PLAM-1		02		4	HM	PT-6	
D003.1	MUSIC		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		37		3	HM	PT-6	
D003.2	MUSIC		Y	6' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	43		1	HM	PT-6	
D003a	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	02		1	HM	PT-6	
D003b	PRACTICE		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	06		1	HM	PT-6	
D003c	MUSIC STOR		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	03		1	HM	PT-6	
D004	MENS LOCKER ROOM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		56		1	HM	PT-6	
D004a	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	HM	PLAM-1		02		4	HM	PT-6	
D005	CUST		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		17		1	HM	PT-6	
D006.1	INSTRUMENT STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	
D006.2	INSTRUMENT STORAGE		N	4' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	03		1	HM	PT-6	
D007.1	CONCESSIONS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	
D007.2	CONCESSIONS		N	5' - 0"	4' - 4"	1 1/2"	R.C.D.	STEEL	-		57		-	STEEL	-	MOTORIZED
D008	TRAINING		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	
D009.1	WEIGHT ROOM		Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	42		SR	AL	-	SEE ALTERNATE 13
D009.2	WEIGHT ROOM		Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	36		S4	AL	-	SEE ALTERNATE 13
D010.1	GYMNASIUM		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	51		SD	AL	-	
D010.2	GYMNASIUM		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	51		SD	AL	-	
D010.3	GYMNASIUM		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	51		SD	AL	-	
D010.4	GYMNASIUM		Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	52		SC	AL	-	
D010.5	GYMNASIUM		Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	52		SC	AL	-	
D010.6	GYMNASIUM		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	SLG-5	48		1	HM	PT-6	
D010.7	GYMNASIUM		Y	6' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	SLG-5	49		1	HM	PT-6	
D010a	GYM STORAGE		Y	6' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		10		1	HM	PT-6	
D010b.1	STORAGE		Y	6' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		10		1	HM	PT-6	
D010b.2	STORAGE		Y	6' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		19		1	HM	PT-6	

DOOR SCHEDULE - MAIN LEVEL 01

Door Number	Room	Exterior Door	Door Pair	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Door Glazing	Door Hardware	Fire Rating	Frame Type	Frame Material	Frame Finish	Comments
Area A																
A100.1	VESTIBULE	Y	Y	6' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	35		S17	AL	-	
A100.2	VESTIBULE		Y	6' - 0"	7' - 0"	1 3/4"	FG	HM	PT-6	GL-3	55		1	HM	PT-6	
A101	3RD		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A102	3RD		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A103	3RD		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A104	4TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A105	4TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A106	4TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A107	SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A108	FLEX/SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A109a	GROUP		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SG	AL	-	
A109b	CALM		N	3' - 0"	7' - 0"	1 3/4"	N	WOOD	PLAM-1	GL-3	01		1	HM	PT-6	
A109c	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
A110	FLEX/SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A111a	ELEC/IDF		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		16		1	HM	PT-6	
A111b	STAFF WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		07		1	HM	PT-6	
A114.1	CORRIDOR		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28		1	HM	PT-6	
A114.2	VESTIBULE		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28	90 MIN.	1	HM	PT-6	
A115	STAIR 2		Y	6' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		44		1	HM	PT-6	
A117	CUST		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		17		1	HM	PT-6	
A118	SRO		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
A119.1	RECEPTION		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	31		SN	AL	-	
A119.2	RECEPTION		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		25		5	HM	PT-6	
A119a	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
A119b	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
A119c	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
A119d	NURSE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	
A119e	GROUP		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		3	HM	PT-6	

DOOR SCHEDULE - MAIN LEVEL 01

Door Number	Room	Exterior Door	Door Pair	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Door Glazing	Door Hardware	Fire Rating	Frame Type	Frame Material	Frame Finish	Comments
Area B																
B100.1	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	27		S8	AL	-	
B100.2	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	27		S8	AL	-	
B100.3	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	34		S8	AL	-	
B100.4	VESTIBULE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	26		SM	AL	-	
B100.5	VESTIBULE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	26		SM	AL	-	
B100.6	VESTIBULE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	32		SM	AL	-	
B101.1	VESTIBULE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	31		SN	AL	-	
B101.2	RECEPTION		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		25		5	HM	PT-6	
B101.3	RECEPTION		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		21		3	HM	PT-6	
B101a	CONF RM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		5	HM	PT-6	
B101b	STOR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		04		1	HM	PT-6	
B101c	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
B101d	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
B101e	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
B101g	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
B102.1	VESTIBULE	Y	N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-1	34		SS	AL	-	
B102.2	VESTIBULE		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	53		SL	AL	-	
B103a	CONF RM		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	02		SK	AL	-	
B103b	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
B103c	FILE STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		08		1	HM	PT-6	
B103d	OFFICE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	
B104.1	STAFF LOUNGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		23		3	HM	PT-6	
B104.2	STAFF LOUNGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		22		3	HM	PT-6	
B105a	MEDIA CENTER		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SB	AL	-	
B106	TECH WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		1	HM	PT-6	
B107	MEDIA WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		1	HM	PT-6	
B108	CUSTODIAL		N	3' - 6"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		17		1	HM	PT-6	
B109	STAFF WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		07		1	HM	PT-6	
B111	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
Area C																
C101	HEALTH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C101a	ELEC/IDF		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		15		1	HM	PT-6	
C101b	STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	
C102.1	SCI LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	1	HM	PT-6	
C102.2	SCI LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C103	SCI CLASS		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C104.1	CHEM LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C104.2	CHEM LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C105	1 ENG		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C106	STOR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		07	SMOKE	1	HM	PT-6	
C106a	STOR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		14	SMOKE	1	HM	PT-6	
C106b	CHEM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		14	SMOKE	1	HM	PT-6	
C107	2 ENG		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C108.1	SCI LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C108.2	SCI LAB		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		41	SMOKE	3	HM	PT-6	
C109	3 ENG		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
C110	GROUP		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SG	AL	-	
C111	4 ENG		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	SEE ALTERNATE 12
C112	WL		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	SEE ALTERNATE 12
C113	CORRIDOR		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28		1	HM	PT-6	
Area E																
E100	VESTIBULE	Y	Y	6' - 0"	7' - 0"	1 3/4"	FG	HM	PT-6	GL-1	35		1	HM	PT-6	
E110	VESTIBULE		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28		1	HM	PT-6	
E116	CLASSROOM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
E140	RR		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		12		1	HM	PT-6	
Area F																
F101	ADMIN		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	SLG-5	23A		SN	AL	-	
F103	STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		03		1	HM	PT-6	ALTERNATE 1
F104	PRINCIPAL		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	ALTERNATE 1
F105	GROUP		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		3	HM	PT-6	ALTERNATE 1
F106	NURSE / QUIET		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		02		1	HM	PT-6	ALTERNATE 1

DOOR SCHEDULE - UPPER LEVEL 02

Door Number	Room	Exterior Door	Door Pair	Door Width	Door Height	Door Thickness	Door Type	Door Material	Door Finish	Door Glazing	Door Hardware	Fire Rating	Frame Type	Frame Material	Frame Finish	Comments
Area A																
A201	5TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A202	6TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A203	5TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A204	6TH		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A205	FLEX / SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A206	5TH SCIENCE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A207	SPED		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A207a	STORAGE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		04		1	HM	PT-6	
A208	6TH SCIENCE		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		13		3	HM	PT-6	
A209	GROUP		N	3' - 0"	7' - 0"	1 3/4"	FG	AL	-	GL-3	01		SG	AL	-	
A210	CUST		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		18		1	HM	PT-6	
A211a	ELEC/IDF		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		16		1	HM	PT-6	
A211b	STAFF WKRM		N	3' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		07		1	HM	PT-6	
A214	CORRIDOR		Y	8' - 0"	7' - 0"	1 3/4"	F	WOOD	PLAM-1		28		1	HM	PT-6	

GENERAL NOTES - DOORS AND FRAMES

1. ALL EXISTING DOOR AND FRAMES SHOULD BE FIELD VERIFIED WHEN AFFECTED BY NEW WORK.
2. INTERIOR HOLLOW METAL FRAMES IN CMU AND PRECAST TO BE FILLED WITH GROUT. ALL EXTERIOR HOLLOW METAL FRAMES TO BE FILLED WITH MINERAL WOOL INSULATION.
3. ALL ALUMINUM FRAMES TO BE DARK BRONZE, TYPICAL U/N.O.

GLAZING SCHEDULE

GL-1 = LOW-E, TINTED, TEMPERED, INSULATING GLASS AT EXTERIOR 1/4" GLAZING, 1/2" AIR GAP, 1/4" GLAZING

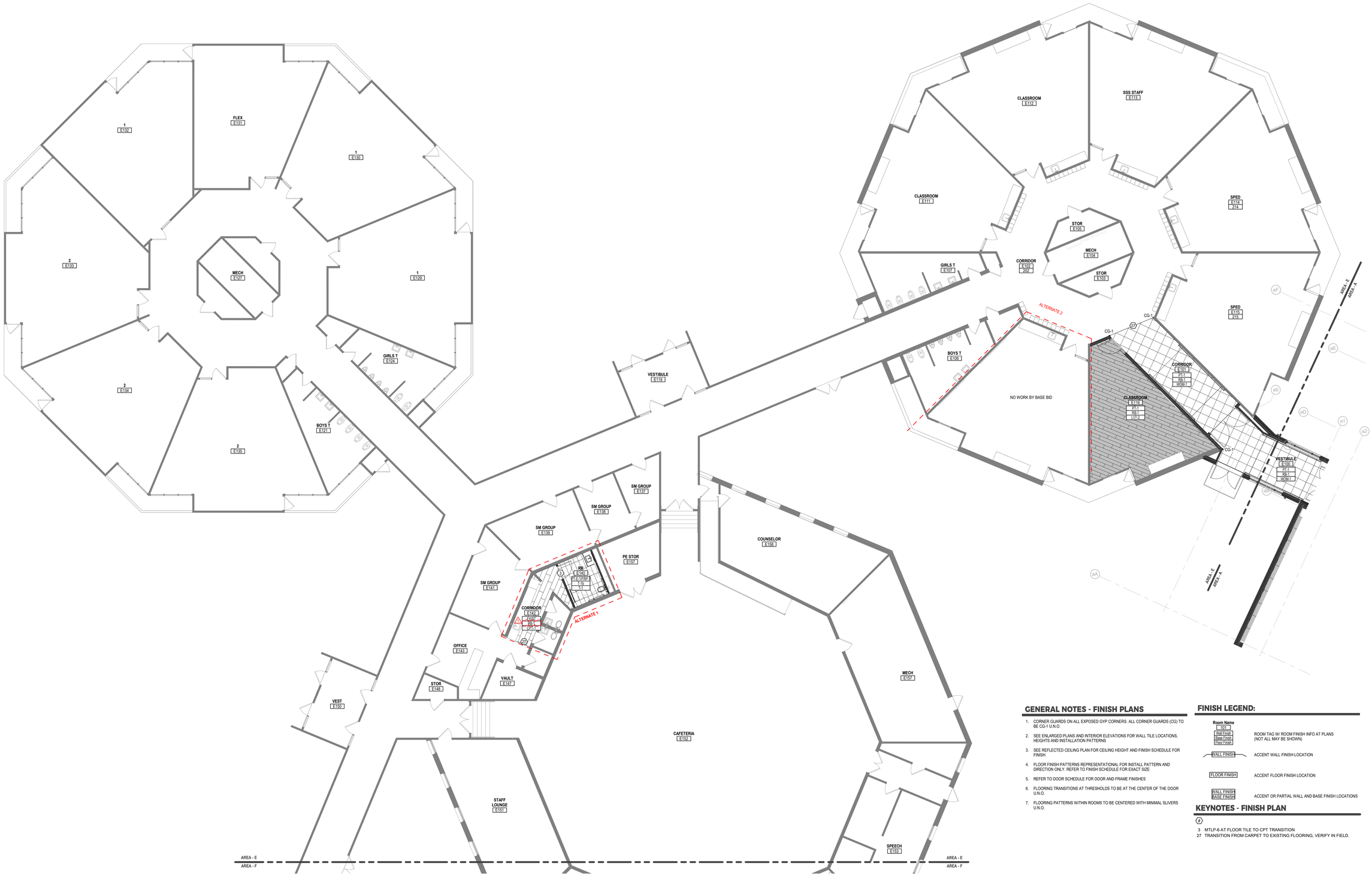
GL-2 = FRIT LOW-E, TINTED, TEMPERED, INSULATING GLASS AT EXTERIOR COMMON'S CURTAINWALL 1/4" GLAZING, 1/2" AIR GAP, 1/4" GLAZING

GL-3 = TEMPERED GLASS, NON-FIRE RATED AT INTERIOR 1/4" TYPICAL, 3/8" AT SPANS OVER 6', 1/2" AT SPANS OVER 8'

GL-4 = TRANSLUCENT INSULATED PANEL

SLG-5 = SECURITY LAMINATED GLAZING


SEE SCHEDULE
7' - 0"
DOOR TYPE - F
SEE SCHEDULE
3' - 6"
DOOR TYPE - G
SEE SCHEDULE
3' - 4"
DOOR TYPE - N
SEE SCHEDULE
5' - 6"
7' - 0"
DOOR TYPE - FG
SEE SCHEDULE
CLG LINE
SEE SCHEDUL



GENERAL NOTES - FINISH PLANS

1. CORNER GUARDS ON ALL EXPOSED GYP CORNERS. ALL CORNER GUARDS (CG) TO BE CG-1 U.N.O.
2. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR WALL TILE LOCATIONS, HEIGHTS AND INSTALLATION PATTERNS
3. SEE REFLECTED CEILING PLAN FOR CEILING HEIGHT AND FINISH SCHEDULE FOR FINISH
4. FLOOR FINISH PATTERNS REPRESENTATIONAL FOR INSTALL PATTERN AND DIRECTION ONLY. REFER TO FINISH SCHEDULE FOR EXACT SIZE
5. REFER TO DOOR SCHEDULE FOR DOOR AND FRAME FINISHES
6. FLOORING TRANSITIONS AT THRESHOLDS TO BE AT THE CENTER OF THE DOOR U.N.O.
7. FLOORING PATTERNS WITHIN ROOMS TO BE CENTERED WITH MINIMAL SLIVERS U.N.O.

FINISH LEGEND:

Room Name 101 Wall Finish Base Finish Floor Finish	ROOM TAG W/ ROOM FINISH INFO AT PLANS (NOT ALL MAY BE SHOWN)
WALL FINISH	ACCENT WALL FINISH LOCATION
FLOOR FINISH	ACCENT FLOOR FINISH LOCATION
WALL FINISH BASE FINISH	ACCENT OR PARTIAL WALL AND BASE FINISH LOCATIONS

KEYNOTES - FINISH PLAN

(#)

3 MTLP-6 AT FLOOR TILE TO CPT TRANSITION
27 TRANSITION FROM CARPET TO EXISTING FLOORING, VERIFY IN FIELD.

1 A701E **Main Level 01 Finish Plan - Area E**
1/8" = 1'-0"

TN NORTH

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210 12th Street NE
Valley City, ND 58072

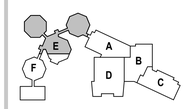
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LICENSED ARCHITECT HEIDI BRENNAN 8550 STATE OF NORTH DAKOTA
Date 03/10/26

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/26
1	Addendum #1	03/17/26

DRAWN BY: AN/DT JN: 24-028

Main Level 01 Finish Plan - Area E

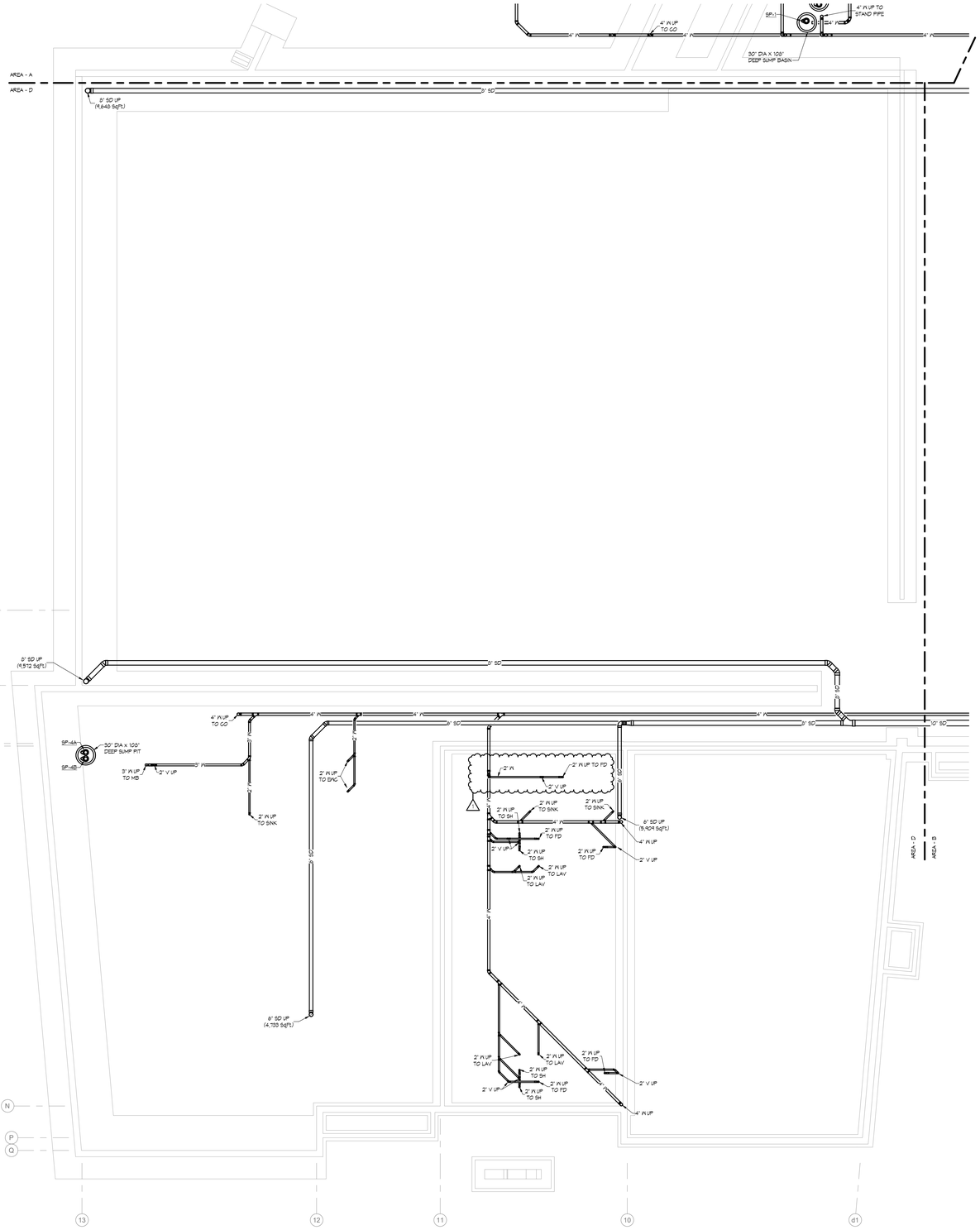
SHEET
A701E

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PLUMBING FIXTURE ROUGH-IN CONNECTION SCHEDULE

FIXTURE	WASTE	VENT	CW	HW
WALL HYDRANT	-	-	3/4"	-
CLEANOUT	4"	-	-	-
FLOOR DRAIN	2"	2"	-	-
FLOOR SINK	2"	2"	-	-
LAVATORY	2"	2"	1/2"	1/2"
WATER CLOSET (FV)	4"	2"	1"	-
URINAL	2"	2"	3/4"	-
SHOWER	2"	2"	3/4"	3/4"
EMERG. EYE WASH/SHOWER	2"	2"	1"	1"
SINK	2"	2"	1/2"	1/2"
DAC	2"	2"	1/2"	-
MIXING VALVE	-	-	3/4"	3/4"
MOP BASIN	3"	2"	3/4"	3/4"
HOSE BIBB	-	-	3/4"	-
WASH MACHINE TRM	2"	2"	3/4"	3/4"

NOTES:
1. SIZE SHALL BE AS SCHEDULED UNLESS OTHERWISE NOTED



1 BFF LOWER LEVEL SEGMENT - D - PLUMBING
SCALE: 1/8" = 1'-0"

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ELECTRICAL

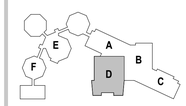
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DRAWING HISTORY

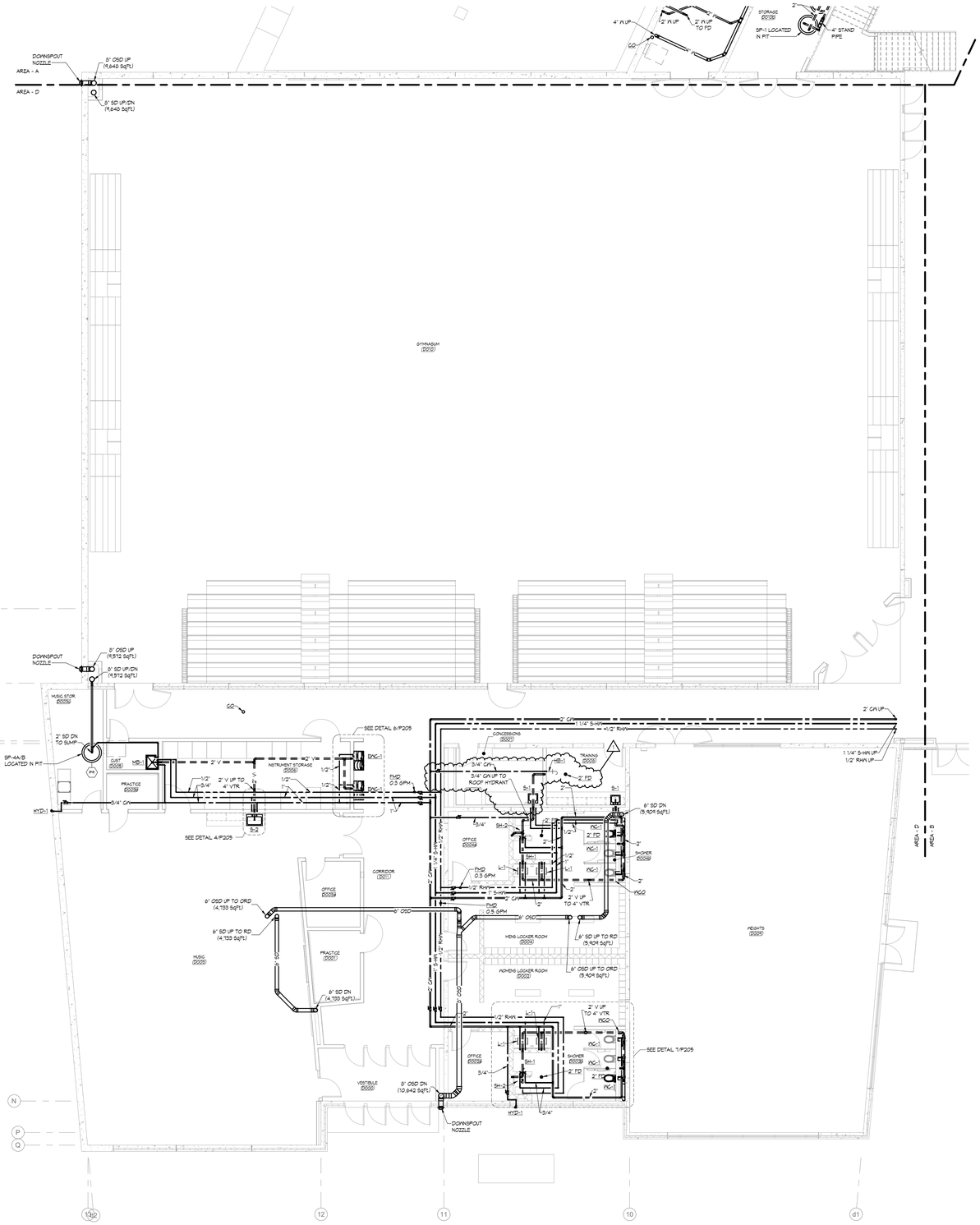
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

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FOUNDATION SEGMENT D - PLUMBING

SHEET
P20FD

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PLUMBING FIXTURE ROUGH-IN CONNECTION SCHEDULE

FIXTURE	WASTE	VENT	CW	HW
WALL HYDRANT	-	-	3/4"	-
CLEANOUT	4"	-	-	-
FLOOR DRAIN	2"	2"	-	-
FLOOR SINK	2"	2"	-	-
LAVATORY	2"	2"	1/2"	1/2"
WATER CLOSET (FV)	4"	2"	1"	-
URINAL	2"	2"	3/4"	-
SHOWER	2"	2"	3/4"	3/4"
EMERG. EYE WASH/SHOWER	2"	2"	1"	1"
SINK	2"	2"	1/2"	1/2"
DAC	2"	2"	1/2"	-
MIXING VALVE	-	-	3/4"	3/4"
MOP BASIN	3"	2"	3/4"	3/4"
HOSE BIBB	-	-	3/4"	-
WASH MACHINE TRIM	2"	2"	3/4"	3/4"

NOTES:
1. SIZE SHALL BE AS SCHEDULED UNLESS OTHERWISE NOTED

SHEET NOTES

P8 PROVIDE SUMMER/WINTER VALVES ON SUMP PUMP DISCHARGE LINE. ROUTE SUMMER LINE TO STORM. ROUTE WINTER LINE TO MOP BASIN.

1 LOWER LEVEL PLAN SEGMENT - D - PLUMBING
SCALE: 1/8" = 1'-0"

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ELECTRICAL

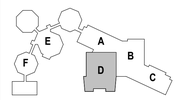
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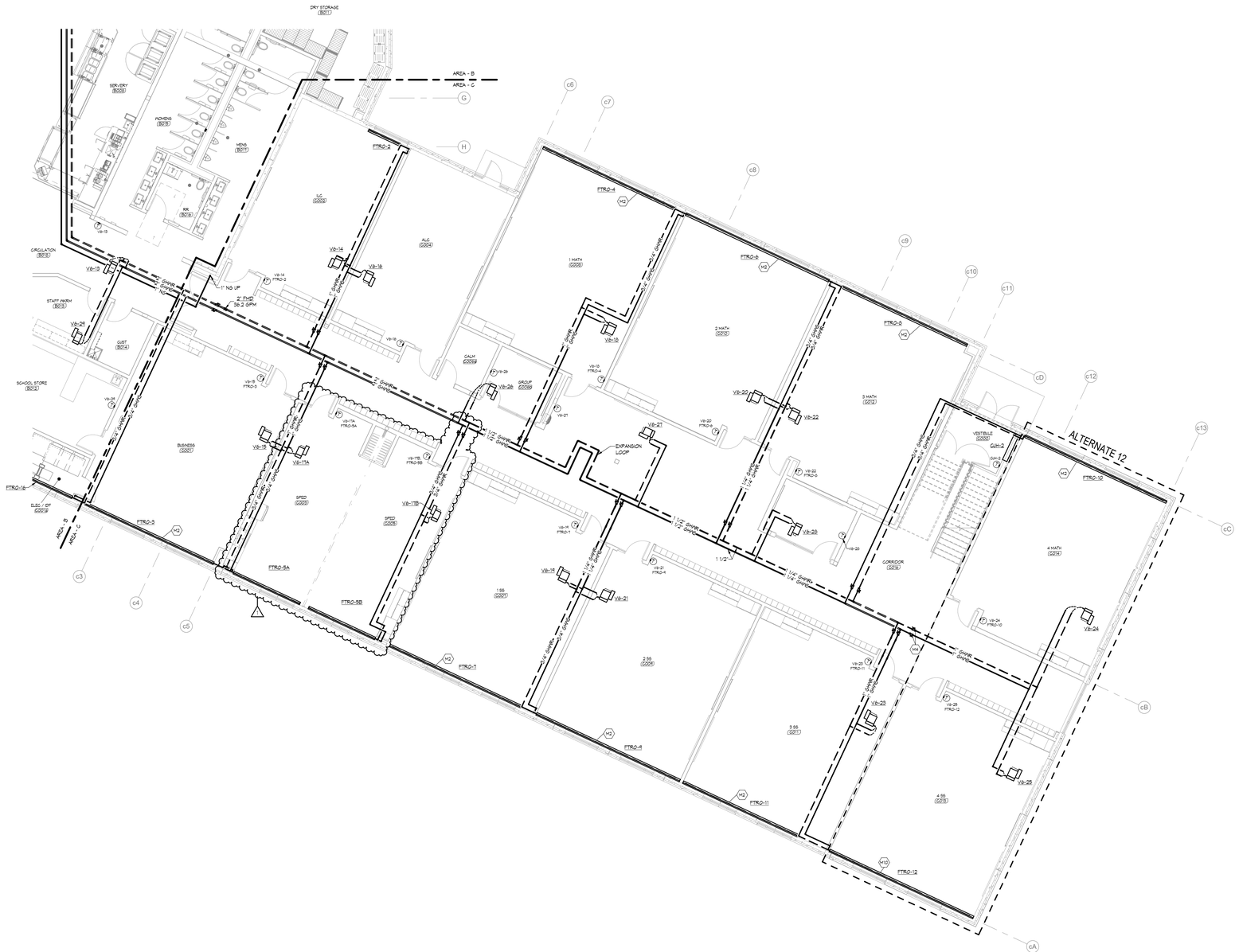
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LOWER LEVEL SEGMENT D - PLUMBING

SHEET
P200D

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1 LOWER LEVEL PLAN - MECHANICAL PIPING-AREA C

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

NORTH

GENERAL NOTES

A. ALL HEATING PIPING RUN-OUTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.

SHEET NOTES

M2 PROVIDE 2 - 4' 8" SECTIONS OF ACTIVE FIN TUBE ELEMENT CENTERED BELOW WINDOWS. PROVIDE WALL TO WALL ELEMENT COVER.

M4 PIPING TO BE VALVED AND CAPPED AT THIS LOCATION IF ALTERNATE 12 IS NOT ACCEPTED.

M10 PROVIDE 2 - 8' SECTIONS OF ACTIVE FIN TUBE ELEMENT CENTERED BELOW WINDOWS. PROVIDE WALL TO WALL ELEMENT COVER.

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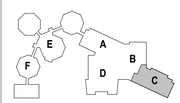
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DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

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LOWER LEVEL SEGMENT C - MECHANICAL PIPING

SHEET

M200C

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SHEET NOTES

- H8 DUCTWORK TO BE CAPPED HERE IF ALTERNATE 12 IS NOT ACCEPTED.
- H7 AIR TERMINAL TO BE LOCATED ABOVE CEILING.
- H8 WIRE MESH TO COVER DUCT OPENING



1 LOWER LEVEL PLAN - HVAC-AREA C

NORTH

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

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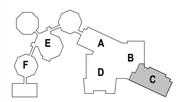
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REGISTERED PROFESSIONAL ENGINEER
STEVE J. HOEHMER
PE - 8407
DATE: 03/17/2026
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

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LOWER LEVEL SEGMENT C - HVAC

SHEET

M300C

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SOUND ATTENUATING UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	SYSTEM	TYPE	UNIT SIZE DIA	UNIT SIZE L	CFM	MAX S.P.	DYNAMIC INSERTION LOSS DB OCTAVE BAND & MID-FREQUENCY (CPS) 63 1	125 2	250 3	500 4	1000 5	2000 6	4000 7	8000 8	NOTES
SA-1A	PRICE CS36	RTU-3	ST	36	72	7,500	0.1	9	15	22	31	40	38	21	12	-
SA-1B	PRICE CS36	RTU-3	ST	36	72	7,500	0.1	9	15	22	31	40	38	21	12	-
SA-2	PRICE CS36	RTU-4	ST	36	72	9,000	0.1	9	15	22	31	40	38	21	12	-

ST STRAIGHT

LOUVER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	WIDTH	HEIGHT	FRAME TYPE	DEPTH	CFM	FREE AREA	FD	NOTES
LVR-1	GREENHECK ESD-635	72"	40"	CH	6"	2,800	11.6	0.01	ALL
LVR-2	GREENHECK ESU-153	84"	30"	CH	4"	9,000	8.7	0.08	ALL

FD PRESSURE DROP, IN.W.G.
CH CHANNEL
F FLANGE

NOTES:
1. COLOR SELECTED BY ARCHITECT.

UNIT HEATER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	FLUID	GPM	EAT	LAT	OUTPUT MBH	MOTOR HP	MOTOR VOLT	MOTOR PH	DISC BY	EXT	LAT	GPM	NOTES
GUH-1	RITTLING RFRC-420	CM/R	35 %EG	450	65	93.5	14.0	1/15	120	1	MC	140	120	1.5	1
GUH-2	RITTLING RFRW-350	WH/R/I	35% EG	450	65	93.5	14.0	1/15	120	1	MC	140	120	1.5	1
GUH-3	RITTLING RFRW-350	WH/R/I	35% EG	1180	65	82.3	22.3	2X(1/15)	120	1	MC	140	120	2.5	1
GUH-4	RITTLING RRC-440	CM/SR	35% EG	1180	65	82.3	22.3	2X(1/15)	120	1	MC	140	120	2.5	1
GUH-5	RITTLING RRC-440	CM/SR	35% EG	1180	65	82.3	22.3	2X(1/15)	120	1	MC	140	120	2.5	1
GUH-6	RITTLING RFRW-350	WH/R/I	35 %EG	450	65	93.5	14.0	1/15	120	1	MC	140	120	1.5	1
GUH-7	RITTLING RFRC-420	CM/R	35% EG	620	65	84.7	16.7	1/15	120	1	MC	140	120	1.8	1
GUH-8	RITTLING RFRC-420	CM/R	35% EG	620	65	84.7	16.7	1/15	120	1	MC	140	120	1.8	1
GUH-9	RITTLING RFRW-350	WH/R/I	35% EG	450	65	93.5	14.0	1/15	120	1	MC	140	120	1.5	1
SUH-1	RITTLING RH-63	H	35 %EG	870	65	85.5	19.6	1/10	120	1	MC	140	120	2	-
SUH-2	RITTLING RH-33	H	35% EG	490	65	84.2	10.3	1/15	120	1	MC	140	120	1	-
SUH-3	RITTLING RH-33	H	35% EG	490	65	84.2	10.3	1/15	120	1	MC	140	120	1	-
SUH-4	RITTLING RH-121	H	35% EG	1415	65	89.4	37.8	1/3	120	1	MC	140	120	3.8	-
SUH-5	RITTLING RH-193	H	35% EG	2310	65	90.9	65.6	1/4	120	1	MC	140	120	6.6	-
SUH-6	RITTLING RH-63	H	35% EG	870	65	85.5	19.6	1/10	120	1	MC	140	120	2	-

EG ETHYLENE GLYCOL
H HORIZONTAL
I INVERTED
R RECESSED
SR SEMI RECESSED
CM CEILING MOUNTED
WH WALL HUNG
DISC DISCONNECT
MC MECHANICAL CONTRACTOR

NOTES:
1. PROVIDE WITH STANDARD COLOR SELECTION.

FIN RADIATION SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	FLUID	COVER TYPE	COVER HEIGHT (IN)	COVER DEPTH (IN)	COVER LENGTH (FT)	RQMS	TUBE SIZE (IN)	FINS PER FT	FIN LENGTH (FT)	BTU PER FT	EAT	EXT	TOTAL MBH	GPM	NOTES
FTRO-1	RITTLING FS3	35% EG	ST	14"	5-3/8"	19'	1	3/4"	48	18.0	742	65	140	13.4	3.0	1
FTRO-2	RITTLING FS3	35% EG	ST	14"	5-3/8"	7'	1	3/4"	48	9.0	742	65	140	5.1	0.9	1
FTRO-3	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-4	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-5A	RITTLING FS3	35% EG	ST	14"	5-3/8"	12'	1	3/4"	48	4.5	742	65	140	3.3	0.8	1
FTRO-5B	RITTLING FS3	35% EG	ST	14"	5-3/8"	12'	1	3/4"	48	4.5	742	65	140	3.3	0.8	1
FTRO-6	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-7	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-8	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-9	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-10	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1,3
FTRO-11	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTRO-12	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1,3
FTRO-13	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	30.0	742	65	140	22.3	5.0	1
FTRO-14	RITTLING FS055	35% EG	DS	18"	5-3/8"	WW	1	3/4"	48	5.0	742	65	140	3.7	0.9	2
FTRO-15	RITTLING FS055	35% EG	DS	18"	5-3/8"	WW	1	3/4"	48	8.0	742	65	140	5.9	1.3	2
FTRO-16	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	4.0	742	65	140	3.0	0.7	1
FTR1-1	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	16.0	742	65	140	11.9	2.7	1
FTR1-2	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1
FTR1-3	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-4	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-5	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-6	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-7	RITTLING FS3	35% EG	ST	14"	5-3/8"	23'	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-8	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-9	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-10	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1
FTR1-11	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-12	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1,3
FTR1-13	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-14	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-15	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR1-16	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	16.0	742	65	140	11.9	2.7	1,3
FTR1-17	RITTLING FS3	35% EG	ST	14"	5-3/8"	6'	1	3/4"	48	4.0	742	65	140	3.0	0.7	1
FTR2-1	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1
FTR2-2	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	16.0	742	65	140	11.9	2.7	1
FTR2-3	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR2-4	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR2-5	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	12.0	742	65	140	8.9	2.0	1
FTR2-6	RITTLING FS3	35% EG	ST	14"	5-3/8"	25'	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR2-7	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	18.0	742	65	140	13.4	3.0	1
FTR2-8	RITTLING FS3	35% EG	ST	14"	5-3/8"	24' 6"	1	3/4"	48	9.0	742	65	140	6.7	1.5	1
FTR2-9	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	3.0	742	65	140	2.2	0.5	1
FTR2-10	RITTLING FS3	35% EG	ST	14"	5-3/8"	WW	1	3/4"	48	8.0	742	65	140	5.9	1.3	1
FTR2-11	RITTLING FS3	35% EG	ST	14"	5-3/8"	6'	1	3/4"	48	5.0	742	65	140	3.7	0.9	1
FTR2-12	RITTLING	35% EG	BE	-	-	-	1	3/4"	48	4.5	742	65	140	3.3	0.8	1

EG ETHYLENE GLYCOL
DS DOUBLE SLOPE TOP
ST SLOPE TOP
BE BARE ELEMENT
WW WALL TO WALL

NOTES:
1. BOTTOM OF COVER 4" ABOVE FLOOR
2. BOTTOM OF COVER 7 ABOVE FLOOR
3. PROVIDE FIN TUBE RADIATION UNDER BASE BID.

AIR HANDLING UNIT SOUND POWER SCHEDULE

UNIT NO.		OCTAVE BAND 63 1	125 2	250 3	500 4	1000 5	2000 6	4000 7	8000 8	NOTES
RTU-1	RADIATED	89	86	89	90	88	87	84	76	-
	UNIT DISCHARGE	89	89	93	96	90	86	84	81	-
	UNIT RETURN	80	82	94	88	80	79	76	70	-
RTU-2	RADIATED	86	83	85	87	84	84	82	74	-
	UNIT DISCHARGE	85	87	92	90	84	80	78	74	-
	UNIT RETURN	77	81	87	82	76	75	72	65	-
RTU-3	RADIATED	87	84	88	87	84	84	82	74	-
	UNIT DISCHARGE	86	86	93	96	91	88	84	76	-
	UNIT RETURN	81	85	94	88	81	79	75	67	-
RTU-4	RADIATED	80	78	83	79	81	82	81	71	-
	UNIT DISCHARGE	82	84	91	89	84	80	78	74	-
	UNIT RETURN	82	82	93	88	80	79	77	69	-
RTU-5	RADIATED	80	78	78	78	79	75	74	66	-
	UNIT DISCHARGE	84	84	89	92	86	83	79	76	-
	UNIT RETURN	74	80	88	79	74	72	66	59	-
RTU-6	RADIATED	90	86	91	91	90	92	86	77	-
	UNIT DISCHARGE	89	89	99	100	94	91	87	81	-
	UNIT RETURN	82	82	93	93	84	83	81	75	-
RTU-7	RADIATED	48	45	48	48	51	49	43	36	-
	UNIT DISCHARGE	78	80	83	81	78	75	73	69	-
	UNIT RETURN	81	82	83	80	73	74	74	68	-

VARIABLE AIR VOLUME UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	UNIT SIZE	W' x L' x H'	INLET SIZE	OUTLET SIZE	GPM MAX	GPM MIN	GPM HEAT	EAT	LAT	TOTAL MBH	EXT	FLUID	GPM	MAX WPD	NOTES
V1-1	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-2	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	700	55.0	91.1	21.9	140	35% EG	2.1	3.0	-
V1-3	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	3
V1-4	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-5	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1050	320	500	55.0	90.1	19.1	140	35% EG	1.7	3.0	-
V1-6	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-7	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1150	350	800	55.0	91.2	31.4	140	35% EG	3.3	3.0	-
V1-8	PRICE SDV	10	14'X16'X13"	10"	14'X13"	750	230	400	55.0	92.9	16.5	140	35% EG	1.5	3.0	-
V1-9	PRICE SDV	06	12'X16'X8"	6"	12'X8"	250	80	150	55.0	86.4	5.2	140	35% EG	2.4	3.0	-
V1-10	PRICE SDV	10	14'X16'X13"	10"	14'X13"	850	260	550	55.0	93.8	24.4	140	35% EG	2.5	3.0	-
V1-11	PRICE SDV	06	12'X16'X8"	6"	12'X8"	150	50	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V1-12	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-13	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-14	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-15	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-16	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-17	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V1-18	PRICE SDV	12	16'X16'X15"	12"	16'X15"	900	270	450	55.0	92.4	18.3	140	35% EG	2.6	3.0	-
V1-19	PRICE SDV	10	14'X16'X13"	10"	14'X13"	600	180	300	55.0	92.2	12.2	140	35% EG	1.2	3.0	-
V1-20	PRICE SDV	12	16'X16'X15"	12"	16'X15"	900	270	450	55.0	92.4	18.3	140	35% EG	2.6	3.0	-
V1-21	PRICE SDV	06	12'X16'X8"	6"	12'X8"	325	100	325	55.0	108.8	18.3	140	35% EG	2.4	3.0	-
V1-22	PRICE SDV	08	12'X16'X10"	8"	12'X10"	400	120	400	55.0	92.9	16.5	140	35% EG	2.2	3.0	-
V1-23	PRICE SDV	10	14'X16'X13"	10"	14'X13"	750	230	400	55.0	92.9	16.5	140	35% EG	1.5	3.0	-
V1-24	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1100	330	650	55.0	94.5	27.9	140	35% EG	2.6	3.0	-
V1-25	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V1-26	PRICE SDV	06	12'X16'X8"	6"	12'X8"	150	50	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V1-27	PRICE SDV	10	14'X16'X13"	10"	14'X13"	650	200	400	55.0	83.5	12.5	140	35% EG	0.8	3.0	-
V1-28	PRICE SDV	06	12'X16'X8"	6"	12'X8"	100	45	100	55.0	102.2	5.2	140	35% EG	0.9	3.0	-
V2-1	PRICE SDV	08	12'X16'X10"	8"	12'X10"	500	150	450	55.0	94.2	14.2	140	35% EG	3.9	3.0	-
V2-2	PRICE SDV	06	12'X16'X8"	6"	12'X8"	150	50	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V2-3	PRICE SDV	06	12'X16'X8"	6"	12'X8"	175	60	175	55.0	93.7	7.8	140	35% EG	1.3	3.0	-
V2-4	PRICE SDV	08	12'X16'X10"	8"	12'X10"	550	170	550	55.0	91.4	21.8	140	35% EG	2.3	3.0	-
V2-5	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V2-6	PRICE SDV	10	14'X16'X13"	10"	14'X13"	800	240	240	55.0	93.1	11.3	140	35% EG	1.4	3.0	-
V2-7	PRICE SDV	06	12'X16'X8"	6"	12'X8"	300	90	300	55.0	92.3	12.2	140	35% EG	4.2	3.0	-
V2-8	PRICE SDV	24x16	38'X19'X18"	24'X16"	38'X18"	2250	680	1200	55.0	91.8	47.9	140	35% EG	4.2	3.0	3
V2-9	PRICE SDV	06	12'X16'X8"	6"	12'X8"	250	80	150	55.0	86.4	5.2	140	35% EG	2.4	3.0	-
V2-10	PRICE SDV	10	14'X16'X13"	10"	14'X13"	700	210	600	55.0	93.2	26.2	140	35% EG	2.0	3.0	-
V2-11	PRICE SDV	06	12'X16'X8"	6"	12'X8"	150	50	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V2-12	PRICE SDV	14	20'X16'X15"	14"	20'X15"	1600	480	480	55.0	78.3	12.2	140	35% EG	1.6	3.0	-
V2-13	PRICE SDV	14	20'X16'X15"	14"	20'X15"	1650	500	500	55.0	77.3	12.2	140	35% EG	1.5	3.0	-
V2-14	PRICE SDV	10	14'X16'X13"	10"	14'X13"	800	240	240	55.0	93.1	11.3	140	35% EG	1.4	3.0	-
V2-15	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1050	320	950	55.0	96.4	42.7	140	35% EG	4.5	3.0	-
V2-16	PRICE SDV	16	24'X16'X15"	16"	24'X16"	2000	600	1400	55.0	96.9	63.6	140	35% EG	5.1	3.0	-
V2-17	PRICE SDV	06	12'X16'X8"	6"	12'X8"	300	90	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V2-18	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V2-19	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V3-1	PRICE SDV	16	24'X16'X15"	16"	24'X16"	2000	600	1400	55.0	96.9	63.6	140	35% EG	5.1	3.0	3
V3-2	PRICE SDV	14	20'X16'X15"	14"	20'X16"	1300	390	700	55.0	92.8	28.7	140	35% EG	3.0	3.0	-
V3-3	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V3-4	PRICE SDV	06	12'X16'X8"	6"	12'X8"	200	60	100	55.0	86.4	3.5	140	35% EG	2.1	3.0	-
V3-5	PRICE SDV	06	12'X16'X8"	6"	12'X8"	300	90	150	55.0	91.8	6.1	140	35% EG	0.6	3.0	-
V3-6	PRICE SDV	08	12'X16'X10"	8"	12'X10"	400	120	350	55.0	93.8	14.8	140	35% EG	3.5	3.0	-
V3-7	PRICE SDV	06	12'X16'X8"	6"	12'X8"	100	30	100	55.0	102.2	5.2	140	35% EG	0.9	3.0	-
V6-1	PRICE SDV	14	20'X16'X15"	14"	20'X15"	1350	410	600	55.0	93.7	25.2	140	35% EG	2.1	3.0	3
V6-2	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1050	320	500	55.0	90.1	19.1	140	35% EG	1.7	3.0	3
V6-3	PRICE SDV	14	20'X16'X15"	14"	20'X15"	1450	440	725	55.0	86.7	25.0	140	35% EG	1.3	3.0	-
V6-4	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1050	320	500	55.0	90.1	19.1	140	35% EG	1.7	3.0	-
V6-5	PRICE SDV	14	20'X16'X15"	14"	20'X15"	1350	410	600	55.0	93.7	25.2	140	35% EG	2.1	3.0	-
V6-6	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V6-7	PRICE SDV	06	12'X16'X8"	6"	12'X8"	125	40	60	55.0	79.0	1.7	140	35% EG	0.5	3.0	-
V6-8	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V6-9	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	1
V6-10	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V6-11	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	700	55.0	91.7	21.9	140	35% EG	2.7	3.0	1
V6-11	PRICE SDV	10	14'X16'X13"	10"	14'X13"	800	240	240	55.0	93.1	11.3	140	35% EG	1.4	3.0	2
V6-12	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	1
V6-13	PRICE SDV	10	14'X16'X13"	10"	14'X13"	600	180	300	55.0	92.2	12.2	140	35% EG	1.2	3.0	-
V6-14	PRICE SDV	10	14'X16'X13"	10"	14'X13"	800	240	240	55.0	93.1	11.3	140	35% EG	1.4	3.0	-
V6-15	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	-
V6-16	PRICE SDV	10	14'X16'X13"	10"	14'X13"	800	240	240	55.0	93.1	11.3	140	35% EG	1.4	3.0	-
V6-17A	PRICE SDV	08	12'X16'X10"	8"	12'X10"	500	150	350	55.0	91.7	14.0	140	35% EG	1.4	3.0	-
V6-17B	PRICE SDV	08	12'X16'X10"	8"	12'X10"	500	150	350	55.0	91.7	14.0	140	35% EG	1.4	3.0	-
V6-18	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-19	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-20	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-21	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-22	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-23	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	93.1	20.1	140	35% EG	0.9	3.0	-
V6-24	PRICE SDV	12	16'X16'X15"	12"	16'X15"	1000	300	500	55.0	92.0	20.1	140	35% EG	2.1	3.0	1
V6-25	PRICE SDV

DIFFUSER, REGISTER AND GRILLE SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	NC	MOUNTING	AIR	NOTES
S1	PRICE SPD	SPD	31	<20	LIT	SA	1
S2	PRICE SPD	SPD	31	<20	SUR	SA	1
S3	PRICE HCD	REG	--	<20	DUCT/SUR	SA	1
S4	PRICE SDA 100	LSD	8	<20	SUR	SA	1
S5	PRICE 520	REG	F	<20	SUR	SA	1,2
S6	PRICE LBPH	GR	3	<20	SUR	SA	1
S7	PRICE SMCD	DIR	31	<20	LIT	SA	1
R1	PRICE 80	EGG	F	<20	LIT	RA	1
R2	PRICE 80	EGG	F	<20	SUR	RA	1
R3	PRICE 530	GR	F	<20	SUR	RA	1, 2
E1	PRICE 80	EGG	F	<20	LIT	EA	1
E2	PRICE 80	EGG	F	<20	SUR	EA	1
E3	PRICE 530	GR	F	<20	SUR	EA	1, 2

SPD SQUARE PLAQUE DIFFUSER
REG REGISTER
EGG EGG CRATE GRILLE
GR GRILLE
HCD HIGH CAPACITY DRUM
LSD LINEAR SLOT DIFFUSER
LIT LAY-IN TILE
SUR SURFACE
SA SUPPLY AIR
RA RETURN AIR
EA EXHAUST AIR
DIR DIRECTIONAL

NOTES:
1. S1-220 'S1' INDICATES UNIT NO. ON SCHEDULE
S9 '220' INDICATES AIR QUANTITY IN CFM
TYP(2) S9 '9' INDICATES NECK/DUCT SIZE
TYP (2) INDICATES QUANTITY OF SIMILAR UNITS IN THE SAME ROOM OR GENERAL AREA
2. PROVIDE WITH OPPOSED BLADE DAMPER.

RADIANT PANEL SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	FLUID	PANEL WIDTH (IN)	PANEL LENGTH (IN)	HEATING BTU/ PANEL	EAT °F	LAT °F	GPM	FINISH	NOTES
RCP-1	RITTLING LRCP	EA	35% EG	12	96	848	140	120	0.5	SC	ALL

EG ETHYLENE GLYCOL
EA EXTRUDED ALUMINUM
SC SILK SCREENED TO MATCH TILE

NOTES:
1. PANEL COLOR TO BE SELECTED BY ARCHITECT FROM STANDARD COLORS.
2. SEE PLANS FOR TOTAL COUNT OF RCP.

WALL HUNG AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	CFM	COOL MBH	INDOOR UNIT VOLTS	PH	FLA	OUTDOOR UNIT VOLTS	PH	MCA	MOCP	EER	DISC BY	NOTES
SS-1	CARRIER 40MKCB34F--3	AC	975	28.8	208	1	1	-	-	-	-	-	EC	ALL
CU-SS-1	CARRIER 24AHA43A0A003	AC	1900	28.8	-	-	-	208	1	18.3	30	12.2	EC	ALL

AC COOLING ONLY WALL HUNG
MCA MINIMUM CIRCUIT AMPACITY
MOCP MAX. OVERCURRENT PROTECTION
DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR

NOTES:
1. ALL WIRING BETWEEN EVAPORATOR AND CONDENSER SHALL BE BY THIS CONTRACTOR.
2. PROVIDE LOW AMBIENT TO PROVIDE A CONSTANT SATURATED CONDENSING TEMPERATURE OF 100F WITH AN AMBIENT TEMPERATURE OF -20F.
3. PROVIDE CRANKCASE HEATER AND WIND BAFFLES.
4. PROVIDE WINTER START CONTROL DELAY RELAY TO BYPASS THE LOW PRESSURE SWITCH FOR 3 MINUTES IN COLD AMBIENT.
5. CONTROLS BY M.C.

FAN SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	CFM	ESP (IN WG)	ELECTRICAL HP	BHP	VOLT	PH	CTRL	ECM	DISC BY	FAN RPM	DRIVE	SONES	CONT. BY	NOTES
EF-1	GREENHECK G-210-VG	RV	200	0.25	0.17	0.02	208	1	ECM	Y	MC	1382	D	3.3	MC	1,2
EF-2	GREENHECK G-120-VG	RV	850	0.5	0.25	0.12	208	1	ECM	Y	MC	1075	D	7.2	MC	1,2
GEF-1	GREENHECK GUE-180HP-A	GEF	3600	2	3	2.2	460	3	ECM	Y	MC	1725	D	24	MC	1,2
DEF-1	GREENHECK G-120-VG	RV	1200	1	0.5	0.33	208	1	ECM	Y	MC	1520	D	12.4	MC	1,2
TF-1	GREENHECK SQ-9-M1-VG	IL	1000	0.5	.25	.15	120	1	STAT	N	MC	1609	D	9.5	MC	-
TF-2	GREENHECK SQ-9-M1-VG	IL	1000	0.5	.25	.15	120	1	STAT	N	MC	1609	D	9.5	MC	-
TF-3	GREENHECK SQ-98-VG	IL	500	0.5	.25	.18	120	1	STAT	N	MC	1621	D	13.5	MC	-
TF-4	GREENHECK SQ-98-VG	IL	500	0.5	.25	.18	120	1	STAT	N	MC	1621	D	13.5	MC	-
TF-5	GREENHECK SQ-98-VG	IL	500	0.5	.25	.18	120	1	STAT	N	MC	1621	D	13.5	MC	-
TF-6	GREENHECK SQ-98-VG	IL	500	0.5	.25	.18	120	1	STAT	N	MC	1621	D	13.5	MC	-
DF-1	AIRUS A-45-EC-STD-100-130-X	STRAT	-	-	154W	-	120	1	RELAY	Y	MC	2784	D	6	MC	3
DF-2	AIRUS A-45-EC-STD-100-130-X	STRAT	-	-	154W	-	120	1	RELAY	Y	MC	2784	D	6	MC	3
DF-3	AIRUS A-45-EC-STD-100-130-X	STRAT	-	-	154W	-	120	1	RELAY	Y	MC	2784	D	6	MC	3

IL IN LINE
RV ROOF VENTILATOR
P PROPELLER
SW SIDE WALL
GEF GREASE EXHAUST FAN
B BELT DRIVE
D DIRECT DRIVE
CM CEILING MOUNTED

DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
CTRL MOTOR CONTROL
VFD VARIABLE FREQUENCY DRIVE
ECM ELECTRONICALLY COMMUTATED MOTOR
RELAY TEMPERATURE CONTROLS RELAY

NOTES:
1. PROVIDE BIRD SCREEN AND UNIT MOUNTED DISCONNECT.
2. PROVIDE MOTORIZED DAMPER.
3. ARCHITECT TO SELECT COLOR.

BOILER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	FLUID	TYPE	FUEL	FIRING RATE MBH	INLET GAS PRESS	NET MBH	GPM	PRESSURE DROP	MIN GPM	LWT	RELIEF VALVE PSI	ELECTRICAL MCA	ELECTRICAL VOLTS	ELECTRICAL PH	DISC BY	NOTES
B-1	FULTON EDR+4000	35% EG	FT	NG	4000	0.5 psi	3784	290	2.8	75	140	60	15	460	3	EC	ALL
B-2	FULTON EDR+4000	35% EG	FT	NG	4000	0.5 psi	3784	290	2.8	75	140	60	15	460	3	EC	ALL

NG NATURAL GAS
FT FIRETUBE
EG ETHYLENE GLYCOL
PG PROPYLENE GLYCOL
DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR

NOTES:
1. ALL CONTROL WIRING BETWEEN BURNER AND FUEL TRAIN BY MECHANICAL.
2. PROVIDE WITH BACNET INTEGRATION
3. PROVIDE CONDENSATE NEUTRALIZATION KIT
4. PROVIDE SYSTEM TO BOILER INLET GAS PRESSURE REGULATOR
5. PROVIDE CARBON MONOXIDE DETECTOR IN ROOM WHERE GAS-FIRED EQUIPMENT RESIDES.

HYDRONIC SPECIALTIES SCHEDULE

EXPANSION TANKS NO.	TYPE	MANUFACTURER & MODEL NO.	SIZE	ACC. GAL	RM TEMP INITIAL FILL PSIG	AIR CHARGE PRESSURE PSIG	DESIGN OPERATING PSIG	SYSTEM	AIR SEPARATORS NO.	MANUFACTURER & MODEL NO.	SIZE	GPM	RELIEF VALVES PSI	MBH	NOTES
ET-1	B/V	B4S B300	211	85.2	27	24	67	GHW	AS-1	B4S R-6F	6	400	60	7500	ALL

B BLADDER
V VERTICAL

NOTES:
1. EXPANSION TANKS SHALL BE ASME STAMPED.

ROOFTOP AIR HANDLING UNIT COIL SCHEDULE

UNIT NO.	COIL TYPE	UNIT SERVED	CFM	MAX FV	EAT DB	EAT WB	LAT DB	LAT WB	SENS MBH	TOTAL MBH	FLUID	EWT	LWT	GPM	NO. OF COILS	MAX WPD	NOTES
CC-1	DX	RTU-1	21,000	500	78.5	64.4	51.9	51.6	616.7	784.5	R-454B	-	-	-	1	-	1,2
CC-2	DX	RTU-2	13,500	500	81.5	66.0	52.1	51.8	438.3	570.8	R-454B	-	-	-	1	-	1,2
CC-3	DX	RTU-3	15,000	500	78.2	64.1	51.5	51.2	442.0	558.8	R-454B	-	-	-	1	-	1,2
CC-4	DX	RTU-4	9,000	500	78.5	64.4	51.2	50.9	271.7	352.5	R-454B	-	-	-	1	-	1,2
CC-5	DX	RTU-5	4,500	500	78.3	64.2	52.1	51.7	130.3	163.2	R-454B	-	-	-	1	-	1,2
CC-6	DX	RTU-6	26,000	500	78.7	64.6	51.3	50.9	788.0	1034.1	R-454B	-	-	-	1	-	1,2
CC-7	DX	RTU-7	2,600	500	80.8	65.5	51.2	50.8	84.9	111.5	R-454B	-	-	-	1	-	ALL
HC-1	W	RTU-1	21,000	500	35.0	-	65.7	-	-	724.4	35% EG	140	110	52.5	1	13	-
HC-2	W	RTU-2	13,500	500	40.0	-	65.5	-	-	384.4	35% EG	140	110	27.9	1	8	-
HC-3	W	RTU-3	15,000	500	45.0	-	64.0	-	-	636.5	35% EG	140	110	46.2	1	6	-
HC-4	W	RTU-4	9,000	500	35.0	-	65.0	-	-	448.6	35% EG	140	110	35.8	1	8	-
HC-5	W	RTU-5	4,500	500	40.0	-	60.5	-	-	142.7	35% EG	140	110	10.4	1	13	-
HC-6	W	RTU-6	26,000	500	35.0	-	65.0	-	-	864.1	35% EG	140	110	62.7	1	9	-
HC-7	W	RTU-7	2,600	500	45.0	-	58.0	-	-	113.1	35% EG	140	110	8.2	1	5	3
HC-8	W	MAU-1	2,800	500	-30.0	-	76.2	-	-	351.7	35% EG	140	110	25.5	1	9	-

DX DIRECT EXPANSION
WPD WATER PRESSURE DROP, FT.
APD AIR PRESSURE DROP, IN
FV FACE VELOCITY
W WATER
EG ETHYLENE GLYCOL

NOTES:
1. ALL DX COOLING COILS SHALL BE INTERLACED STYLE.
2. DX COOLING COIL CAPACITY BASED ON 45 DEGREE SATURATED SUCTION TEMP
3. PROVIDE UNDER ALTERNATE 13.

PUMP SCHEDULE

UNIT NO.	MANUFACTURER & SERIES NO.	MODEL NO.	SERVICE	FLUID	TYPE	GPM	MIN. GPM	HEAD (FT)	MIN EFF	ELECTRICAL HP	ELECTRICAL VOLT	ELECTRICAL PH	ELECTRICAL CTRL	DISC BY	PUMP RPM	NOTES
HWP-1	B4S e-1510	2.5BB	GHW	35% EG	HES	200	47.5	60	69%	7.5	460	3	VFD	MC	1800	ALL
HWP-2	B4S e-1510	2.5BB	GHW	35% EG	HES	200	47.5	60	69%	7.5	460	3	VFD	MC	1800	ALL
BP-1	B4S e-80	4x4x9.5B	B-1	35% EG	IL	290	75	20	72%	3	460	3	VFD	MC	1200	2
BP-2	B4S e-80	4x4x9.5B	B-2	35% EG	IL	290	75	20	72%	3	460	3	VFD	MC	1200	2

HES HORIZONTAL END SUCTION
IL IN LINE
CTRL MOTOR CONTROL
VFD VARIABLE FREQUENCY DRIVE
ECM ELECTRONICALLY COMMUTATED MOTOR
DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
EG ETHYLENE GLYCOL

NOTES:
1. PROVIDE WITH SUCTION DIFFUSER BY PUMP MANUFACTURER.
2. PUMP SHALL BE SELECTED WITH THE SCHEDULED CAPACITIES AT 65% OF THE MAXIMUM IMPELLER DIAMETER FOR THAT MODEL.
3. PROVIDE WITH FACTORY SHAFT GROUNDING KIT.

MAKE-UP AIR UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	SUPPLY FAN SECTION DATA # OF FANS	FAN TYPE	GLASS	CTRL	TOTAL CFM	ESP	HP	TOTAL HP	VOLTS	PH	DISC BY	MCA	MOCP	HEATING COIL	FILTERS MERV	NOTES
MAU-1	PETRA PAH-32	H	1	PL	2	VFD	2,800	1	2	2	460	3	MC	4	15	HG-B	8	ALL

H HORIZONTAL
PL PLENUM
CTRL MOTOR CONTROL
VFD VARIABLE FREQUENCY DRIVE
MCA MIN. CURRENT AMPACITY
MOCP MAX. OVERCURRENT PROTECTION
DISC DISCONNECT
MC MECHANICAL CONTRACTOR

NOTES:
1. 100% OUTDOOR AIR UNIT.
2. PROVIDE MOUNTING FRAME FOR HANGING UNIT.

ENERGY RECOVERY WHEEL SCHEDULE

UNIT NO.	UNIT SERVED	MODE	MIN. SUPPLY AIR EFF. %	WHEEL DIAMETER	SUPPLY AIR SUPPLY CFM	SUPPLY AIR EAT DB	SUPPLY AIR EAT WB	SUPPLY AIR LAT DB	SUPPLY AIR LAT WB	EXHAUST EXHAUST CFM	EXHAUST EAT DB	EXHAUST EAT WB	EXHAUST LAT DB	EXHAUST LAT WB	DISC BY	NOTES
ERV-1	RTU-1	SUMMER	70.6	68.9"	7,350	92	73	81.4	66.92	7,350	77	63	87.4	69.6	MC	
		WINTER	68			-30	-30	36	35		70	58.4	-4.7	-4.7		ALL
ERV-3	RTU-3	SUMMER	68.6	45.25"	9,750	92	73	81.7	67.5	9,750	77	63	87.1	69.1	MC	
		WINTER	63.8			-30	-30	33.6	32.7		70	58.4	-2	-2		ALL
ERV-4	RTU-4	SUMMER	71.3	45.25"	3,150	92	73	81.3	66.9	3,150	77	63	87.5	69.6	MC	
		WINTER	66.4			-30	-30	36.4	35.6		70	58.4	-5.2	-5.2		ALL
ERV-5	RTU-5	SUMMER	71.3	29.5"	1,350	92	73	81.3	66.9	1,350	77	63	87.5	69.6	MC	
		WINTER	66.2			-30	-30	36.2	35.2		70	58.4	-4.9	-4.9		ALL
ERV-6	RTU-6	SUMMER	67.3	68.9"	9,100	92	73	81.9	67.6	9,100	77	63	86.9	68.9	MC	
		WINTER	62.3			-30	-30	32.3	31.3		70	58.4	-0.5	-0.05		ALL

DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR

NOTES:
1. PROVIDE WITH ECONOMIZER BYPASS DAMPERS.
2. PROVIDE DEFROST CONTROL.

ROOFTOP AIR HANDLING UNIT SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	SUPPLY FAN SECTION FAN TYPE	CFM	ESP	QTY.	CTRL	TOTAL HP	DRIVE TYPE	MAX. TEMP RISE	EXHAUST FAN SECTION FAN TYPE	CFM	ESP	QTY.	CTRL	TOTAL HP	DRIVE TYPE	COOLING COIL	HEATING COIL	ENERGY RECOVERY UNIT	MIN OA CFM	FILTERS MERV	ELECTRICAL VOLTS	PH	DISC BY	MCA	MOCP	NOTES
RTU-1	PETRA PPHB-65	PL	21,000	2.5	2	VFD	40	D	3	PL	21,000	1	2	VFD	30	D	CC-1	HC-1	ERV-1	7,350	8 / 13	460	3	MC	231	250	1
RTU-2	PETRA PPHB-50	PL	13,500	2.5	2	VFD	20	D	3	PL	10,500	1	1	VFD	7.5	D	CC-2	HC-2	-	4,050	8 / 13	460	3	MC	124	150	1
RTU-3	PETRA PPHB-50	PL	15,000	0.75	2	VFD	20	D	3	PL	15,000	0.5	2	VFD	15	D	CC-3	HC-3	ERV-3	11,250	8 / 13	460	3	MC	138	150	1
RTU-4	PETRA PPHB-30	PL	9,000	0.75	1	VFD	15	D	3	PL	9,000	0.5	1	VFD	7.5	D	CC-4	HC-4	ERV-4	5,850	8 / 13	460	3	MC	90	110	1
RTU-5	PETRA PPHB-15	PL	4,500	2.0	1	VFD	10	D	3	PL	4,500	0.5	1	VFD	3	D	CC-5	HC-5	ERV-5	3,150	8 / 13	460	3	MC	46	60	1
RTU-6	PETRA PPHB 90	PL	26,000	2.5	4	VFD	60	D	3	PL	26,000	1	2	VFD	30	D	CC-6	HC-6	ERV-6	16,900	8 / 13	460	3	MC	281	300	1
RTU-7	PETRA PPHB-10	PL	2,600	0.75	1	VFD	3	D	3	-	-	-	-	-	-	-	CC-7	HC-7	-	650	8 / 13	460	3	MC	24	30	1,2

FC FORWARD CURVE
PL PLENUM TYPE
B BELT DRIVE
D DIRECT DRIVE
NG NATURAL GAS
PR PROPANE
IDF INDIRECT FIRED
MCA MINIMUM CIRCUIT AMPS
MOCP MAXIMUM OVERCURRENT PROTECTION
SCCR SHORT-CIRCUIT CURRENT RATING

DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
CTRL MOTOR CONTROL
VFD VARIABLE FREQUENCY DRIVE
ECM ELECTRONICALLY COMMUTATED MOTOR
RELAY TEMPERATURE CONTROLS RELAY
CB COMBINATION MOTOR STARTER DISCONNECT SWITCH (PROVIDED BY EC)
EMRE INTEGRATED SEASONAL MOISTURE REMOVAL EFFICIENCY (DOAS UNITS)

NOTES:
1. UNIT SHALL BE FURNISHED WITH DUCT SMOKE DETECTORS IN THE SUPPLY & RETURN DUCT OPENINGS.
2. PROVIDE ROOF TOP UNIT UNDER ALTERNATE 13.

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REGISTERED PROFESSIONAL ENGINEER
STEVE J. HOEHNER
PE-8407
DATE 03/17/2026
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

DRAWN BY: MAB JN: 2025168

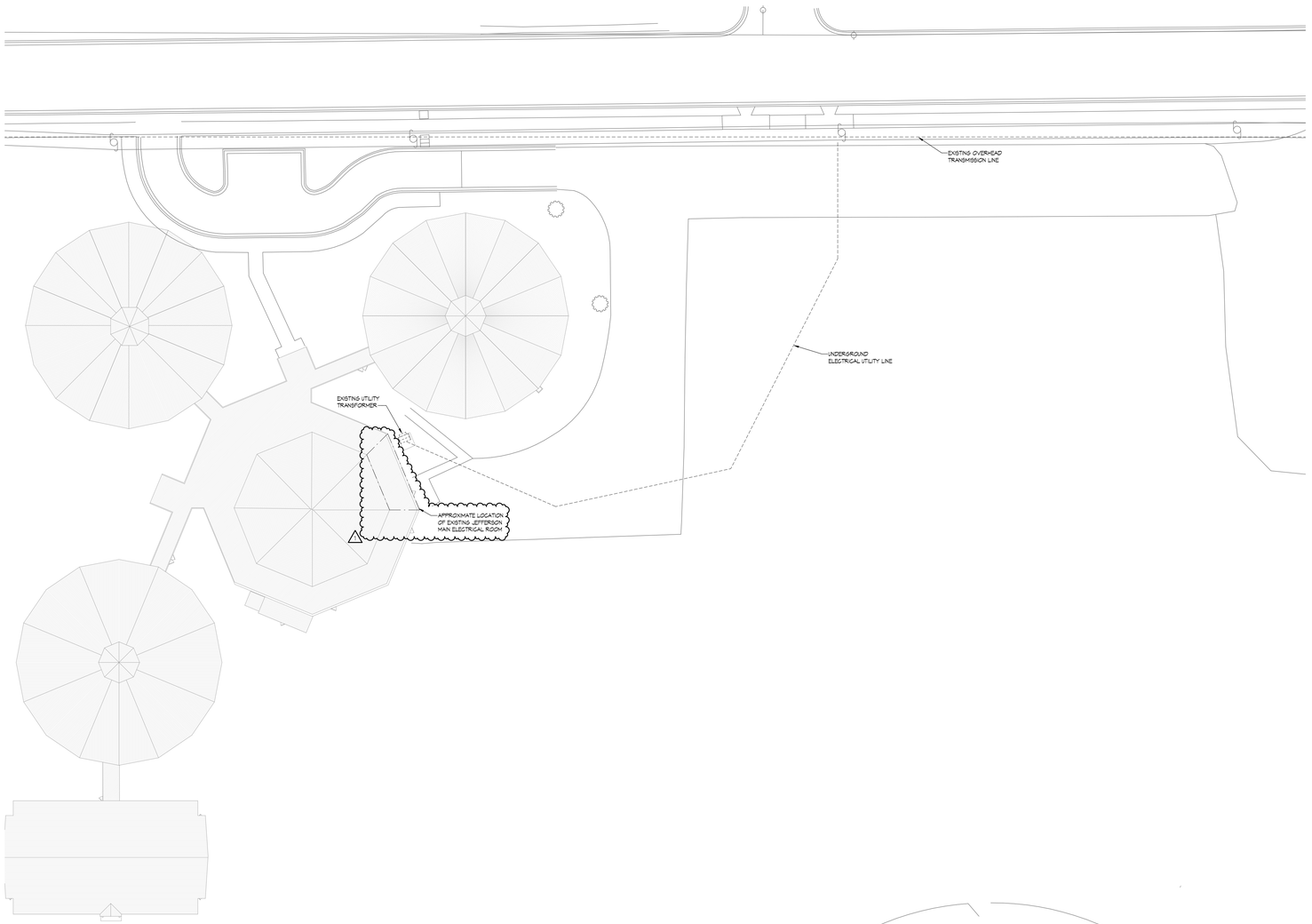
MECHANICAL SCHEDULES

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GENERAL DEMOLITION NOTES

A. ELECTRICAL UTILITY COMPANY TO REMOVE EXISTING BURIED ELECTRICAL SERVICE AND PROVIDE TEMPORARY POWER TO JEFFERSON ELEMENTARY DURING CONSTRUCTION. OVERHEAD LINE TO BE ROUTED IN AREA NOT AFFECTED BY CONSTRUCTION OF NEW BUILDING. E.C. TO PROVIDE NECESSARY COORDINATION TO FACILITATE INSTALL AND MINIMIZE SERVICE DOWNTIME.



NORTH

1 SITE PLAN - ELECTRICAL DEMOLITION

SCALE: 1" = 30'-0"

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PE - 27743
DATE 03/10/2026
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DRAWING HISTORY

NO.	DESCRIPTION	DATE
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1	ADDENDUM #1	03/17/2026

DRAWN BY: Author JN: 2025168

SITE PLAN - ELECTRICAL DEMOLITION

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GENERAL NOTES

A. REFER TO ELECTRICAL RISER DIAGRAM FOR ALL INFORMATION CONCERNING THE ELECTRICAL SERVICE.

SHEET NOTES

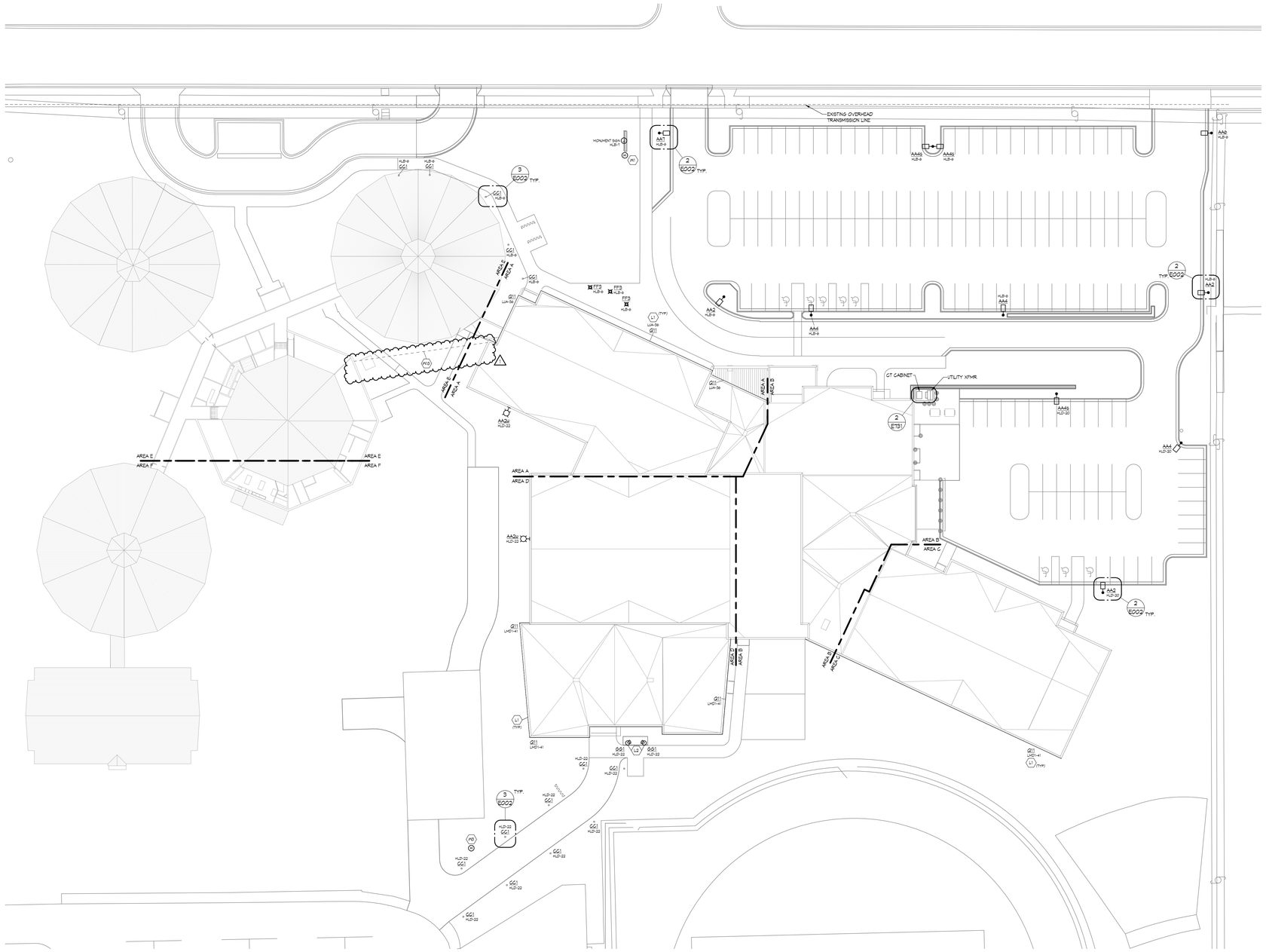
L1 PROVIDE UNDER ALTERNATE 1. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

L2 PROVIDE UNDER ALTERNATE 2. FIXTURES ARE TO BE MOUNTED TO BASE OF MONUMENT SIGN. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. E.G. TO ADJUST FIXTURE AIMPOINT AS DIRECTED BY ARCHITECT.

W1 PROVIDE 277V POWER TO MONUMENT SIGN LIGHTING IN 1-1/2" CONDUIT. PROVIDE (2) ADDITIONAL 1-1/2" CONDUITS FOR FUTURE USE AND ROUTE BACK TO ELECTRICAL ROOM BOOTS6.

W2 PROVIDE (2) 1-1/2" CONDUIT TO THIS LOCATION FOR FUTURE MONUMENT SIGN.

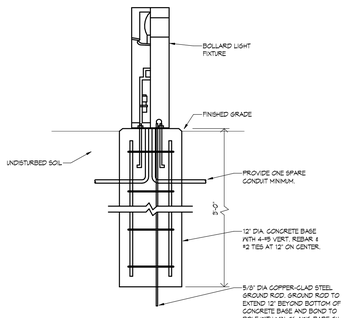
N15 UNDERGROUND ROUTING OF JEFFERSON ELEMENTARY ELECTRICAL SERVICE BACKFEED FROM NEW SERVICE ENTRANCE SWITCHBOARD. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.



1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

LIGHT POLE BASE DETAIL NOTES:

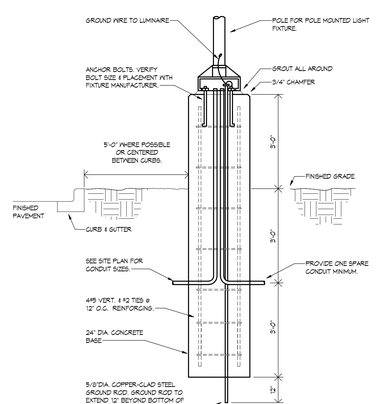
A. SEE SITE PLAN FOR LOCATIONS AND QUANTITY.
B. PROVIDE SPARE 1-1/2" PVC FROM EACH BOLLARD BASE.
C. CONCRETE BASE PROVIDED BY E.C.
D. SEE LUMINARES, GROUNDING AND BONDING SPECIFICATION SECTIONS.



3 FLUSH GRADE BOLLARD BASE DETAIL
SCALE: NTS

LIGHT POLE BASE DETAIL NOTES:

A. SEE SITE PLAN FOR LOCATIONS AND QUANTITY.
B. PROVIDE 8'-0" OF COILED WIRE AT TOP OF EACH BASE.
C. PROVIDE SPARE 1-1/2" PVC FROM EACH BASE.
D. CONCRETE BASE PROVIDED BY E.C.
E. SEE LUMINARES, GROUNDING AND BONDING SPECIFICATION SECTIONS.
F. PROVIDE VIBRATION DAMPENERS FOR ALL POLES/POSTS.
G. ALL POLE/POSTS SHALL HAVE HANDHOLES NEAR BASE.



2 LIGHT POLE BASE DETAIL - 3'-0" BASE
SCALE: NTS

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SITE PLAN - ELECTRICAL

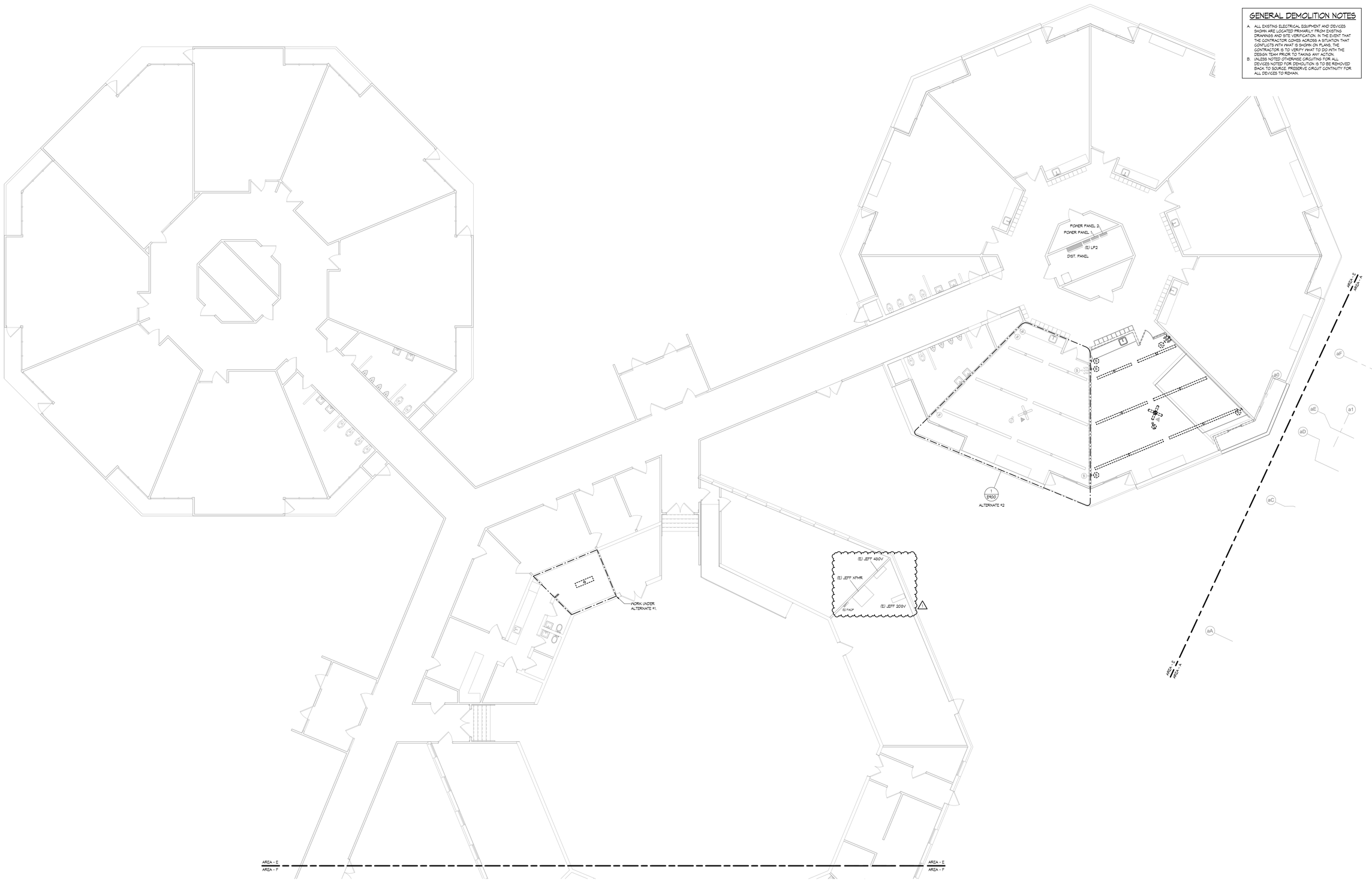
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GENERAL DEMOLITION NOTES

A. ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHOWN ARE LOCATED PRIMARILY FROM EXISTING DRAWINGS AND SITE VERIFICATION. IN THE EVENT THAT THE CONTRACTOR COMES ACROSS A SITUATION THAT CONFLICTS WITH WHAT IS SHOWN ON PLANS, THE CONTRACTOR IS TO VERIFY WHAT TO DO WITH THE DESIGN TEAM PRIOR TO TAKING ANY ACTION.

B. UNLESS NOTED OTHERWISE CAP/TAG FOR ALL DEVICES NOTED FOR DEMOLITION IS TO BE REMOVED BACK TO SOURCE. PRESERVE CIRCUIT CONTINUITY FOR ALL DEVICES TO REMAIN.


POWER PANEL 2
POWER PANEL 1
(E) UPS
DIST. PANEL
(E) JEFF 480V
(E) JEFF 208V
(E) JEFF 120/208V
(E) JEFF 277/480V
(E) JEFF 120/208V
(E) JEFF 277/480V
(E) JEFF 120/208V
(E) JEFF 277/480

LIGHTING CONTROL NOTES:

GENERAL NOTES:

- AUTOMATIC LIGHTING CONTROL REQUIRED TO COMMUNICATE WIRELESSLY. UNLESS NOTED OTHERWISE IN LIGHTING CONTROL NOTES, ALL SWITCHES AND SENSORS WILL REQUIRE A 120V CONNECTION.

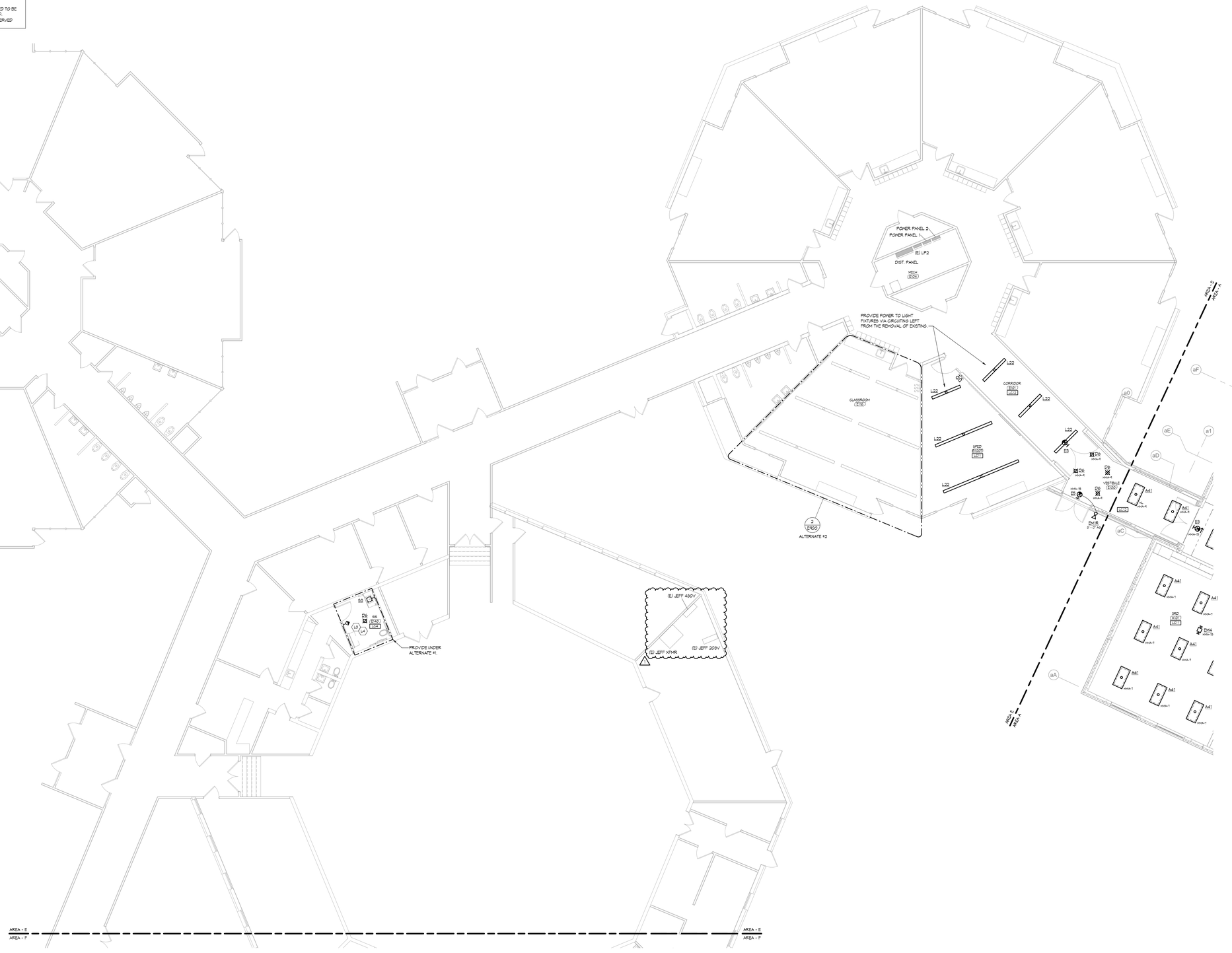
GENERAL NOTES:

A. WINDOW DAYLIGHTING ZONE DEPTH IS 15'-0" DEEP FROM WINDOW AND WIDTH IS 2'-0" WIDER FROM EACH EDGE OF WINDOW. SKYLIGHTING DAYLIGHT ZONE DEPTH IS THE AVERAGE CEILING HEIGHT FROM THE EDGE OF THE SKYLIGHT INTO THE ROOM.
B. LUMINAIRES INDICATED WITH "NL" SHALL BE CIRCUITED AS NIGHT LIGHTS AND SHALL REMAIN ON 24/7.
C. PROVIDE POWER PACKS AND ACCESSORIES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
D. OCCUPANCY SENSOR AND PHOTOCELL FUNCTION MAY BE COMBINED INTO ONE DEVICE.
E. COORDINATE CONFIGURATION OF LIGHTING CONTROL ZONES WITH LOCATION OF TEACHING / TEACHING WALL OF ALL CLASSROOMS.

- LC1 MANUAL WALL SWITCH / DIMMER CONTROL.
- LC2 WALL MOUNTED PIR SENSOR.
- LC4 WALL MOUNTED DUAL TECHNOLOGY SENSOR.
- LC7 WALL MOUNTED DUAL TECHNOLOGY SENSOR WITH INTEGRAL 0-10V DIMMER.
- LC8 CEILING MOUNTED PIR SENSOR. MANUAL CONTROLS AS INDICATED ON FLOOR PLAN.
- LC10 CEILING MOUNTED DUAL TECHNOLOGY SENSOR. MANUAL CONTROLS AS INDICATED ON FLOOR PLAN.
- LC11 VACANCY SENSOR(S) WITHIN ROOM TO BE INTEGRAL TO LIGHT FIXTURE(S). PROVIDE AS MANY INTEGRAL SENSORS AS IS NECESSARY FOR COVERAGE OF ENTIRE ROOM. ALL OTHER LIGHT FIXTURES ARE TO COMMUNICATE WITH FIXTURES WITH INTEGRAL SENSORS FOR AUTOMATIC OFF OPERATION. 120V CONTROL AT ENTRANCE(S) WITH WIRELESS CONTROL AT LOCATION COORDINATED WITH OWNER. FRONT OF ROOM TO BE CONTROLLED SEPARATE FROM BACK OF ROOM.
- LC12 VACANCY SENSOR(S) WITHIN SPACE TO BE INTEGRAL TO LIGHT FIXTURE(S). PROVIDE AS MANY INTEGRAL SENSORS AS IS NECESSARY FOR COVERAGE OF ENTIRE SPACE. ALL OTHER LIGHT FIXTURES ARE TO COMMUNICATE WITH FIXTURES WITH INTEGRAL SENSORS FOR AUTOMATIC OFF OPERATION. AUTO OFF OPERATION IS TO BE PLACED ON DIGITAL TIME-SCHEDULE THAT SHALL BE COORDINATED WITH OWNER. LIGHTING WITHIN STAIRWELLS TO STAY ON 24/7 AND DIM TO 50% WHEN AREA IS UNOCCUPIED FOR 30 MINUTES.
- LC14 CEILING-MOUNTED DUAL TECHNOLOGY SENSOR. NO MANUAL CONTROLS.
- LC16 WIRELESS OCCUPANCY SENSOR INTEGRATED WITHIN LIGHT FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- LC17 VACANCY SENSOR(S) WITHIN ROOM TO BE INTEGRAL TO LIGHT FIXTURE(S). PROVIDE AS MANY INTEGRAL SENSORS AS IS NECESSARY FOR COVERAGE OF ENTIRE ROOM. ALL OTHER LIGHT FIXTURES ARE TO COMMUNICATE WITH FIXTURES WITH INTEGRAL SENSORS FOR AUTOMATIC OFF OPERATION. 120V CONTROL AT ENTRANCE(S) WITH WIRELESS CONTROL AT LOCATION COORDINATED WITH OWNER.
- LC18 CEILING MOUNTED VACANCY SENSORS RATED FOR HIGH HUMIDITY. AUTO OFF OPERATION IS TO BE PLACED ON DIGITAL TIME-SCHEDULE THAT SHALL BE COORDINATED WITH OWNER.

SHEET NOTES

- L3 LIGHTING CONTROLS FOR THIS SPACE REQUIRED TO BE STAND ALONE. DO NOT TIE INTO NEW HEAD END.
- L4 CONNECT LIGHT FIXTURES TO CIRCUITING PRESERVED FROM DEMOLITION OF EXISTING FIXTURES.



1 MAIN LEVEL PLAN - STEAM CLASSROOM - LIGHTING

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

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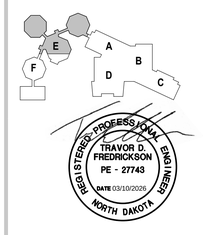
CMTA
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(701) 280.0500 OFFICE

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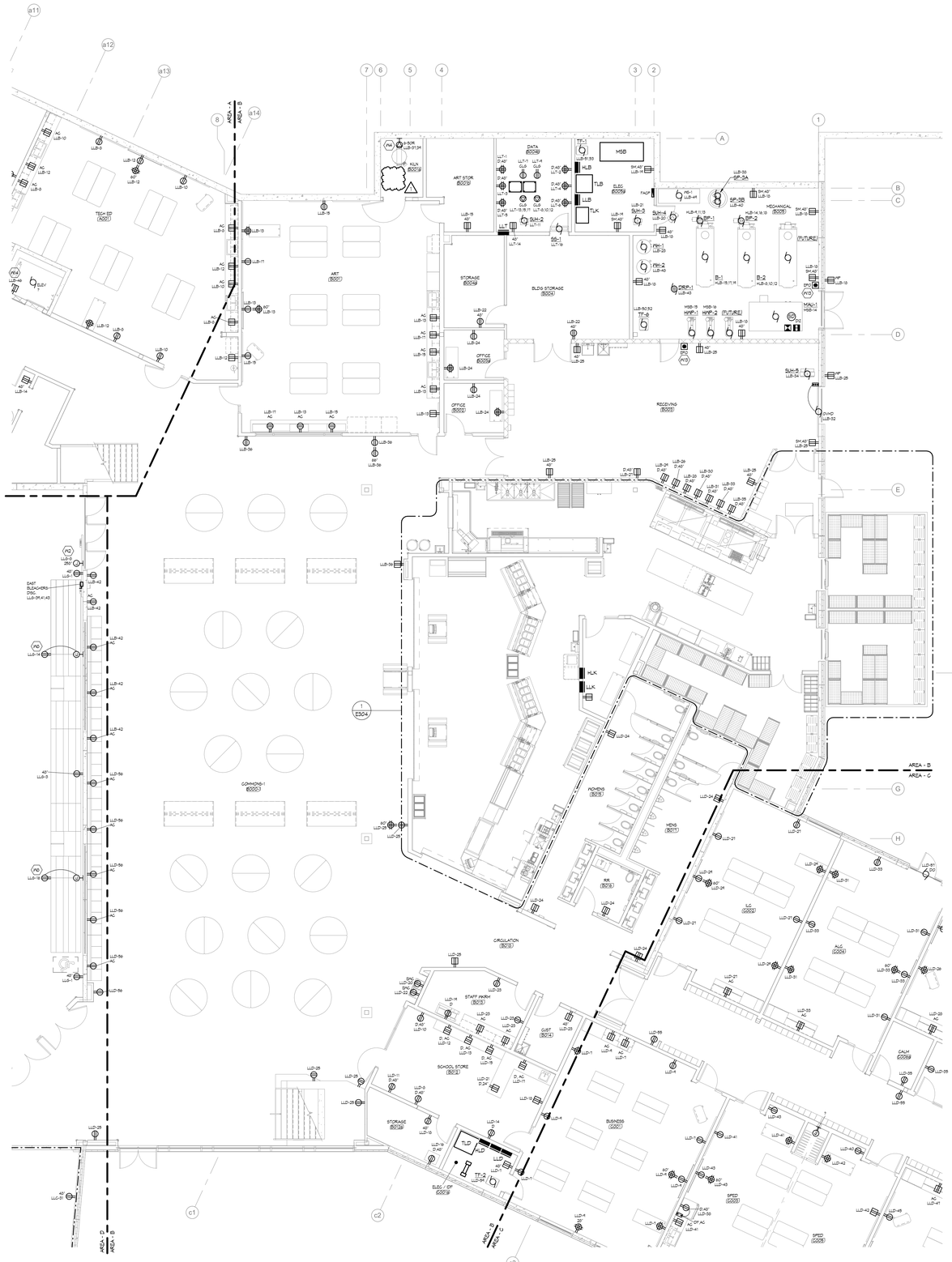
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

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MAIN LEVEL SEGMENT E - LIGHTING

SHEET
E201E

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1 LOWER LEVEL PLAN SEGMENT - B - POWER

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

NORTH

GENERAL NOTES

A. ALL RECEPTACLES ARE TO BE TAMPER RESISTANT.

SHEET NOTES

XI2	PROVIDE 120V POWER TO OWNER FURNISHED SCOREBOARD. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
XI4	VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.
XI6	PROVIDE OUTLET AT FRONT OF BLEACHERS. PROVIDE #12 SO CORD, SUPPORTED FROM BLEACHERS WITH STRAIN RELIEF.
XI13	PROVIDE EMERGENCY STOP BUTTON OF BOILERS AND WATER HEATERS. PUSH BOTTON SHALL SHUT DOWN BOILERS AND WATER HEATER ON ACTIVATION. PROVIDE WITH PROTECTIVE COVER. VERIFY EXACT LOCATION WITH AHJ.
XI14	COORDINATE LOCATIONS OF RECEPTACLES IN ELEVATOR SHAFT WITH ELEVATOR INSTALLER.

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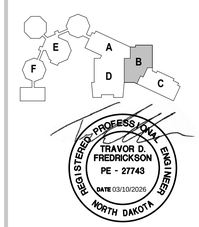
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LOWER LEVEL SEGMENT B - POWER

SHEET

E300B

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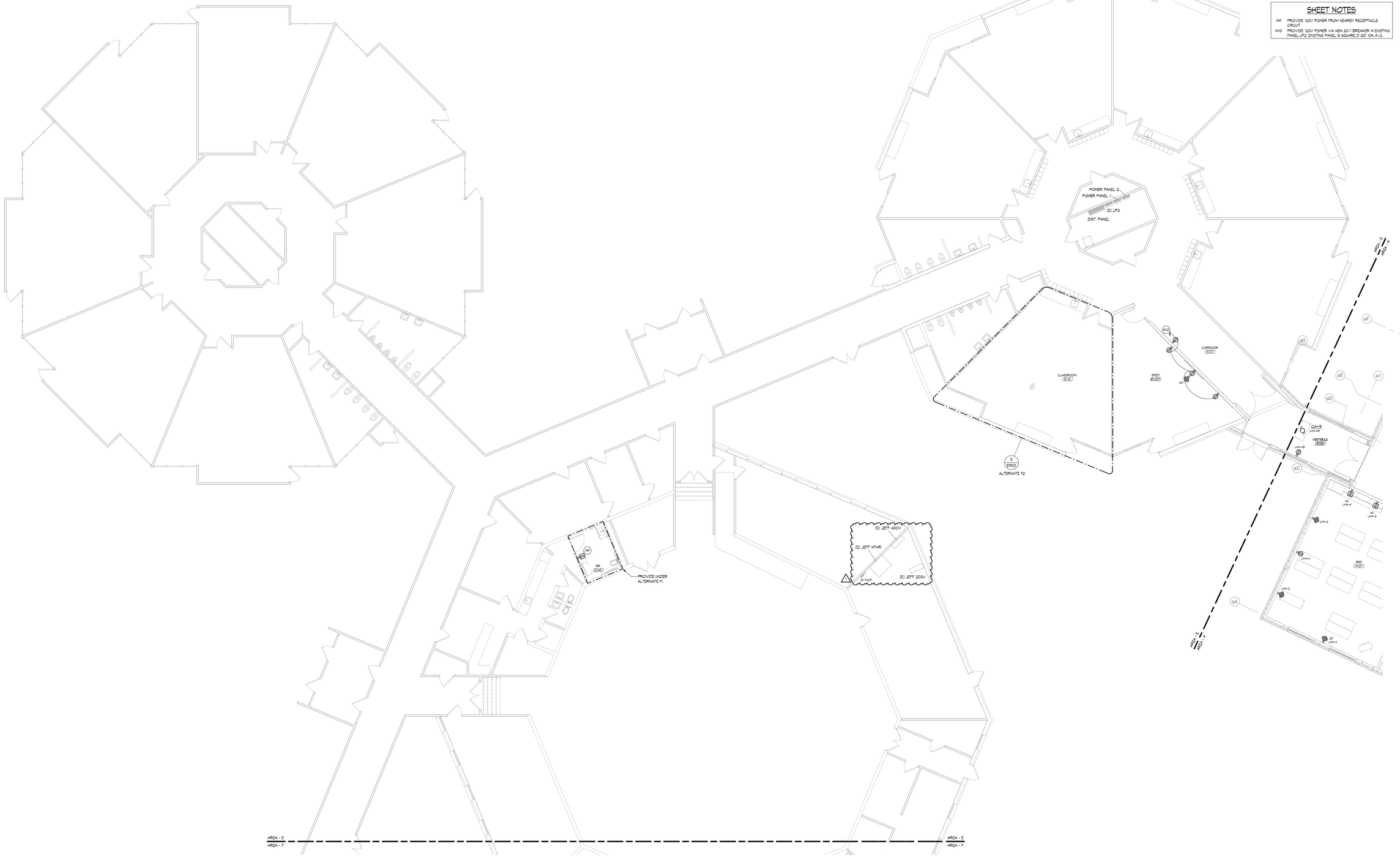
GENERAL NOTES

A. ALL RECEPTACLES ARE TO BE TAMPER RESISTANT.

SHEET NOTES

W8 PROVIDE 120V POWER FROM NEARBY RECEPTACLE CIRCUIT.

W10 PROVIDE 120V POWER VIA NEW 20/1 BREAKER IN EXISTING PANEL LP2. EXISTING PANEL IS SQUARE D QO 10K A.I.C.



1 MAIN LEVEL PLAN SEGMENT - E - POWER

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

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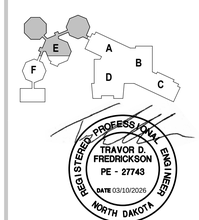
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REGISTERED PROFESSIONAL ENGINEER
TRAVOR D FREDRICKSON
PE - 27743
DATE 03/10/2026
NORTH DAKOTA

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MAIN LEVEL SEGMENT E - POWER

SHEET

E301E

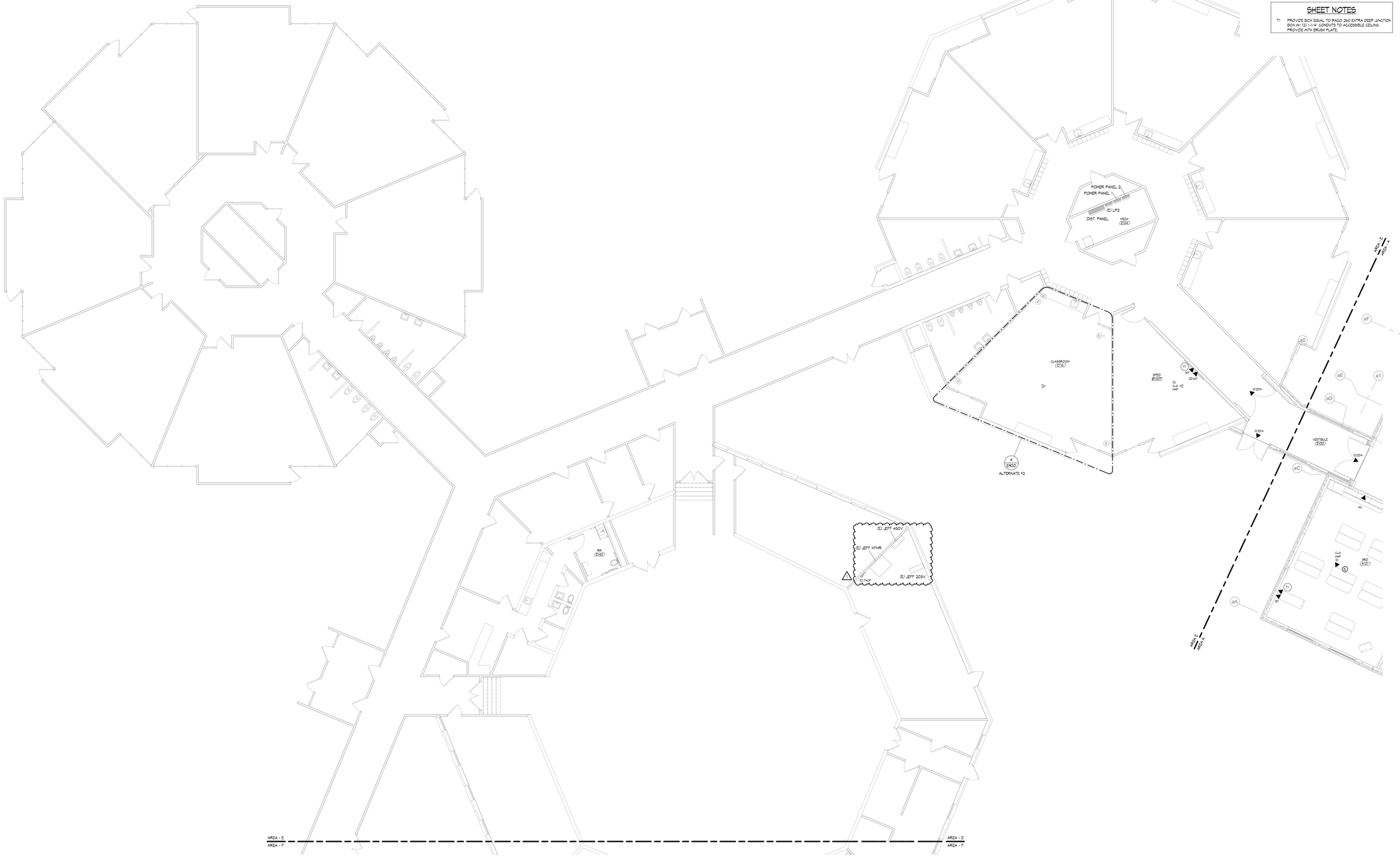
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3/17/2026 13:35:41

GENERAL NOTES

A. ROUTE ALL NEW DATA CABLING TO EXISTING TELECOM EQUIPMENT IN SERVER ROOM F113.

SHEET NOTES

T1 PROVIDE BOX EQUAL TO RACO 280 EXTRA DEEP JUNCTION BOX W/ (2) 1-1/4" CONDUITS TO ACCESSIBLE CEILING. PROVIDE FITH BRUSH PLATE.



1 MAIN LEVEL PLAN SEGMENT - E - TELECOMMUNICATIONS

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

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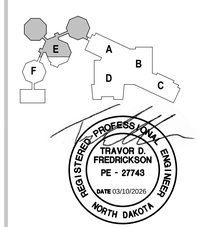
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MAIN LEVEL SEGMENT E - TELECOM

SHEET

E401E

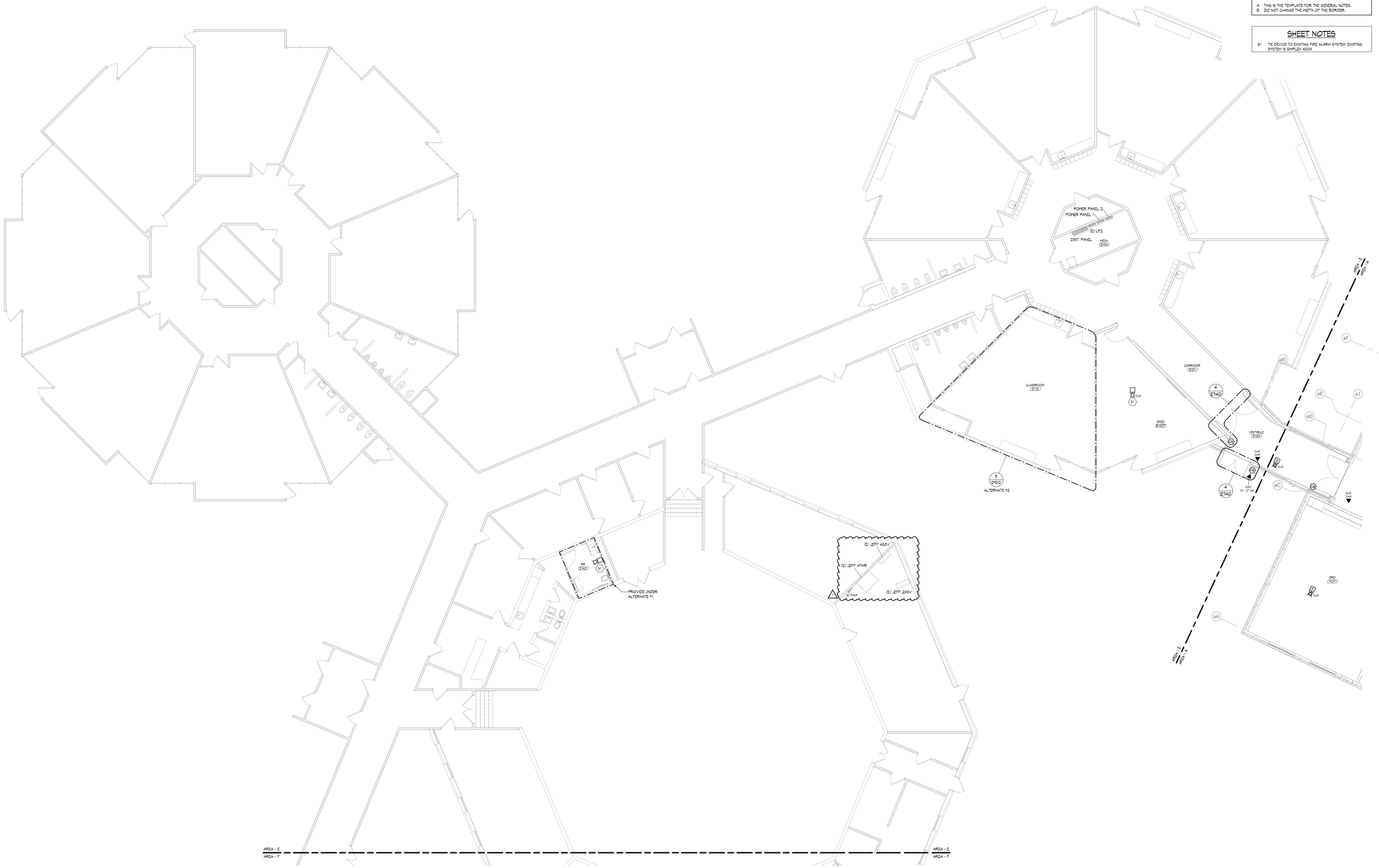
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3/17/2026 13:35:43

GENERAL NOTES

A. THIS IS THE TEMPLATE FOR THE GENERAL NOTES.
B. DO NOT CHANGE THE WIDTH OF THE BORDER.

SHEET NOTES

51 TIE DEVICE TO EXISTING FIRE ALARM SYSTEM. EXISTING SYSTEM IS SIMPLEX 4004.



1 MAIN LEVEL PLAN SEGMENT - E - ELEC SAFETY & SECURITY
SCALE: 1/8" = 1'-0"

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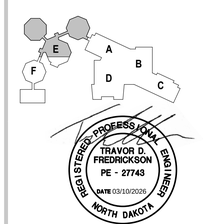
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REGISTERED PROFESSIONAL ENGINEER
TRAVOR D. FREDRICKSON
PE - 27743
DATE 03/10/2026
NORTH DAKOTA

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MAIN LEVEL SEGMENT E - ELECTRONIC SAFETY & SECURITY

SHEET
E501E

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GENERAL NOTES

A. THIS IS THE TEMPLATE FOR THE GENERAL NOTES.
B. DO NOT CHANGE THE WIDTH OF THE BORDER.

SHEET NOTES



1 UPPER LEVEL PLAN SEGMENT - A - ELEC SAFETY & SECURITY
SCALE: 1/8" = 1'-0"

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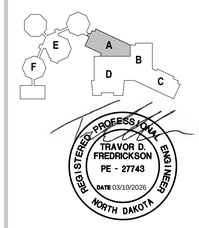
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UPPER LEVEL SEGMENT A - ELECTRONIC SAFETY & SECURITY

SHEET
E502A

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3/17/2026 13:35:47



1 LARGE SCALE KITCHEN PLAN - ELECTRONIC SAFETY & SECURITY
SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. THIS IS THE TEMPLATE FOR THE GENERAL NOTES.
B. DO NOT CHANGE THE WIDTH OF THE BORDER.

SHEET NOTES

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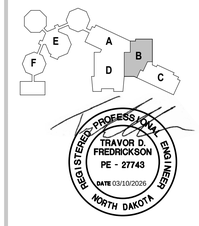
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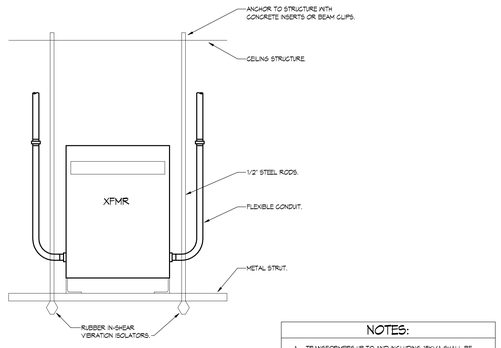
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1	ADDENDUM #1	03/17/2026

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LARGE SCALE KITCHEN PLAN - ELECTRONIC SAFETY & SECURITY

SHEET
E503

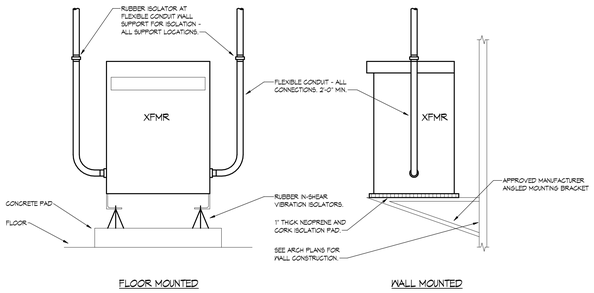
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CEILING MOUNTED

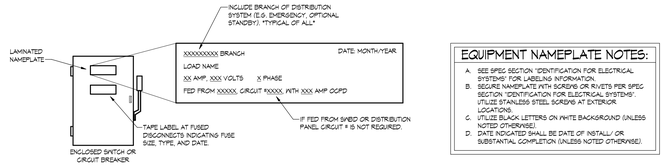
NOTES:

A. TRANSFORMERS UP TO AND INCLUDING 15KVA SHALL BE WALL MOUNTED.
B. TRANSFORMERS ABOVE 15KVA SHALL BE FLOOR MOUNTED OR SUSPENDED FROM CEILING STRUCTURE.
C. TRANSFORMERS ABOVE 15KVA SHALL BE FLOOR MOUNTED.



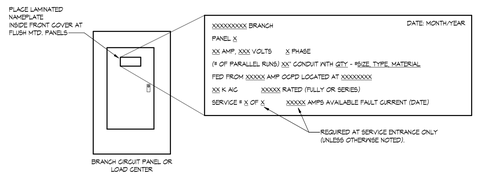
FLOOR MOUNTED WALL MOUNTED

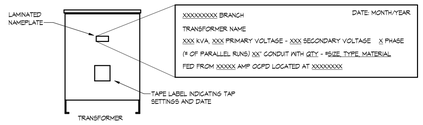
4 TYPICAL DRY-TYPE TRANSFORMER MOUNTING AND CONNECTION DETAIL
SCALE: NTS

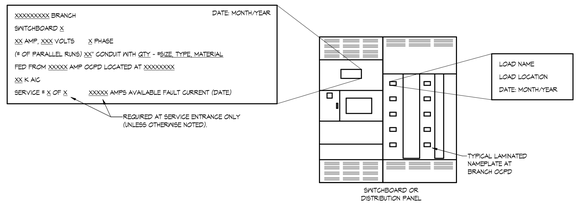


EQUIPMENT NAMEPLATE NOTES:

A. SEE SPEC SECTION 'IDENTIFICATION FOR ELECTRICAL SYSTEMS' FOR LABELING INFORMATION.
B. SECURE NAMEPLATE WITH SCREWS OR RIVETS PER SPEC SECTION 'IDENTIFICATION FOR ELECTRICAL SYSTEMS'. UTILIZE STAINLESS STEEL SCREWS AT EXTERIOR LOCATIONS.
C. UTILIZE BLACK LETTERS ON WHITE BACKGROUND (UNLESS NOTED OTHERWISE).
D. DATE INDICATED SHALL BE DATE OF INSTALL/ OR SUBSTANTIAL COMPLETION (UNLESS NOTED OTHERWISE).



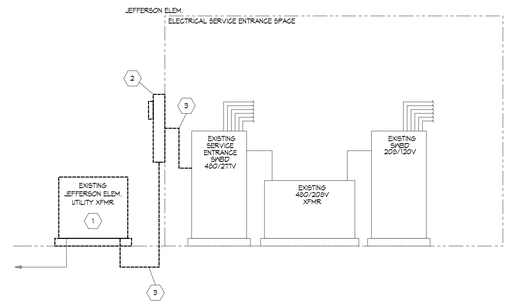




3 EQUIPMENT NAMEPLATE DETAIL
SCALE: NTS

SHEET NOTES:

1. COORDINATE REMOVAL OF EXISTING UTILITY TRANSFORMER WITH VALLEY CITY PUBLIC WORKS (VCPW). TEMPORARY OVERHEAD SERVICE IS TO BE SUPPLIED BY VCPW DURING THE CONSTRUCTION OF THE NEW SCHOOL.
2. DEMOLISH EXISTING CT CABINET AND METER BASE. TURN METER OVER TO UTILITY COMPANY.
3. DEMOLISH EXISTING CONDUIT/CONDUCTOR FROM TRANSFORMER TO SERVICE ENTRANCE SWITCHBOARD. WALL PENETRATIONS SHALL BE REUSED FOR NEW CONDUIT.



2 EXISTING JEFFERSON RISER DIAGRAM
SCALE: NTS

ELEC RISER LEGEND

- EQUIPMENT AND CONDUIT TO BE DEMOLISHED
- EXISTING EQUIPMENT AND CONDUIT TO REMAIN
- NEW EQUIPMENT AND CONDUIT

SHEET NOTES:

1. CONDUIT/CONDUCTOR ROUTED UNDERGROUND FROM NEW BUILDING TO JEFFERSON ELEMENTARY SERVICE ENTRANCE. COORDINATE FINAL ROUTING WITH CONSTRUCTION TEAM. REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

TRANSFORMER SCHEDULE

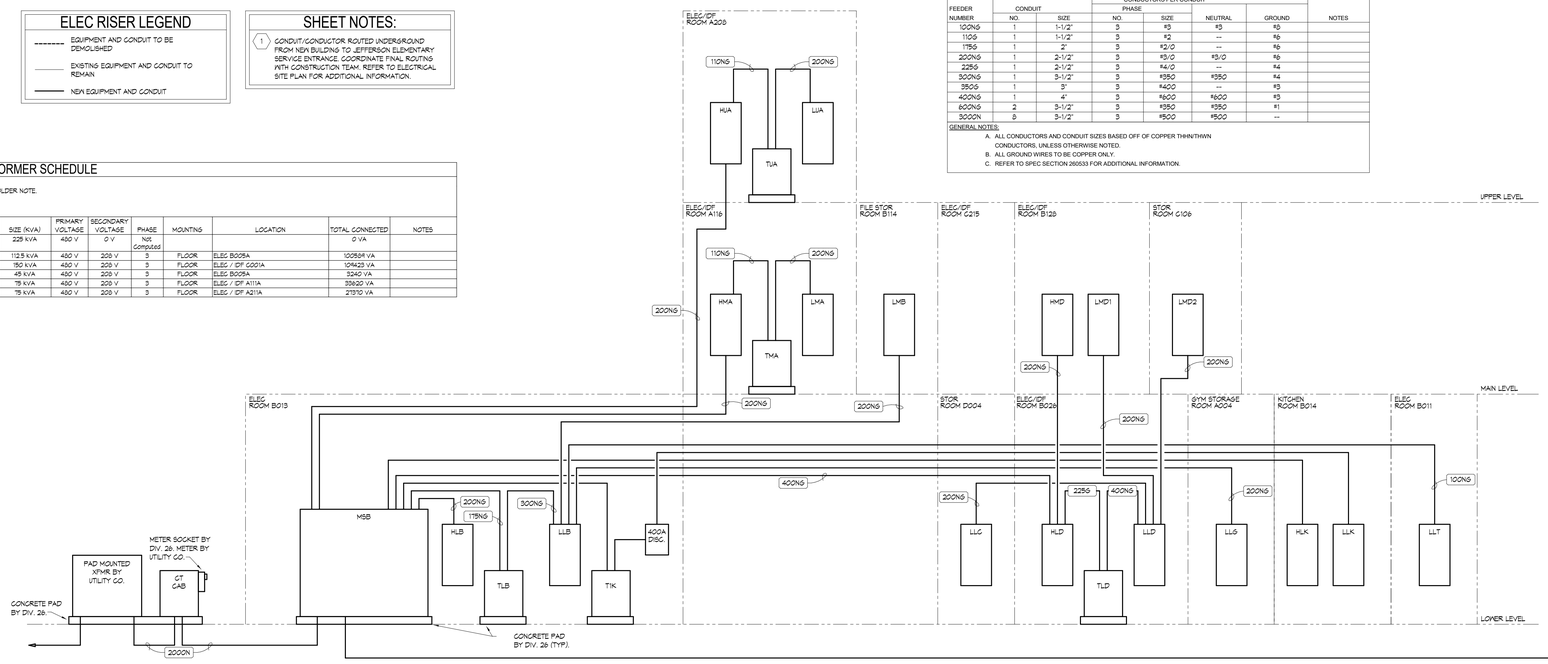
NOTES:
1. PLACEHOLDER NOTE.

NAME	SIZE (KVA)	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PHASE	MOUNTING	LOCATION	TOTAL CONNECTED	NOTES
JEFF XFMR	225 kVA	480 V	0 V	NOT COMPUTED			0 VA	
TLB	112.5 kVA	480 V	208 V	3	FLOOR	ELEC B005A	100584 VA	
TLD	150 kVA	480 V	208 V	3	FLOOR	ELEC / DT C001A	109423 VA	
TLK	45 kVA	480 V	208 V	3	FLOOR	ELEC B005A	3240 VA	
THA	75 kVA	480 V	208 V	3	FLOOR	ELEC / DT A111A	33620 VA	
TJA	75 kVA	480 V	208 V	3	FLOOR	ELEC / DT A211A	21730 VA	

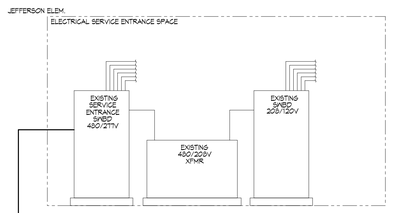
COPPER FEEDER SCHEDULE

FEEDER NUMBER	CONDUIT NO.	CONDUIT SIZE	CONDUCTORS PER CONDUIT PHASE NO.	PHASE SIZE	NEUTRAL	GROUND	NOTES
100NS	1	1-1/2"	3	#3	#3	#6	
110S	1	1-1/2"	3	#2	--	#6	
175S	1	2"	3	#2/0	--	#6	
200NS	1	2-1/2"	3	#3/0	#3/0	#6	
225S	1	2-1/2"	3	#4/0	--	#4	
300NS	1	3-1/2"	3	#350	#350	#4	
350S	1	3"	3	#400	--	#3	
400NS	1	4"	3	#600	#600	#3	
600NS	2	3-1/2"	3	#350	#350	#1	
3000N	8	3-1/2"	3	#500	#500	--	

GENERAL NOTES:
A. ALL CONDUCTORS AND CONDUIT SIZES BASED OFF OF COPPER THWN/THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
B. ALL GROUND WIRES TO BE COPPER ONLY.
C. REFER TO SPEC SECTION 260533 FOR ADDITIONAL INFORMATION.



1 NEW RISER DIAGRAM
SCALE: NTS



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CIVIL
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1111 WESTRAC DR. STE. 108
FARGO, ND 58103
(701) 235.0199 OFFICE

FOODSERVICE
FOODSERVICE CONCEPT DESIGN
7900 INTERNATIONAL DRIVE
SUITE 300 -7043
BLOOMINGTON, MN 55425
(612) 325.1494 OFFICE

REGISTERED PROFESSIONAL ENGINEER
TRAVOR D. FREDRICKSON
PE - 27743
DATE 03/10/2026
NORTH DAKOTA

DRAWING HISTORY

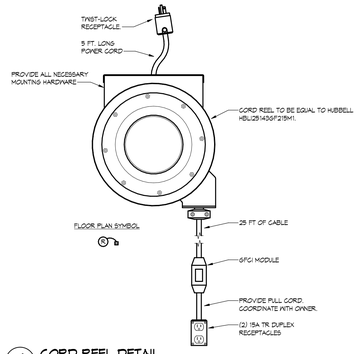
NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

DRAWN BY: Author JN: 2025168

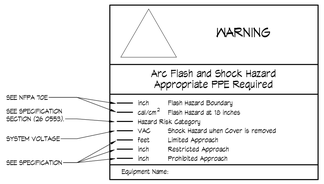
POWER DETAILS

SHEET
E730

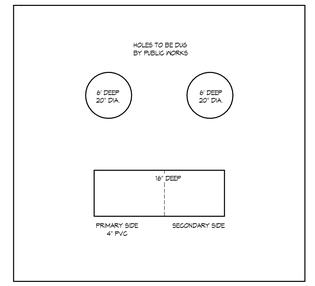
Autodesk Docs://24-028 Valley City Public Schools High School/2025168_Valley City Public Schools New High School_MEP26.rvt
3/17/2026 13:35:49



4 CORD REEL DETAIL
SCALE: NTS

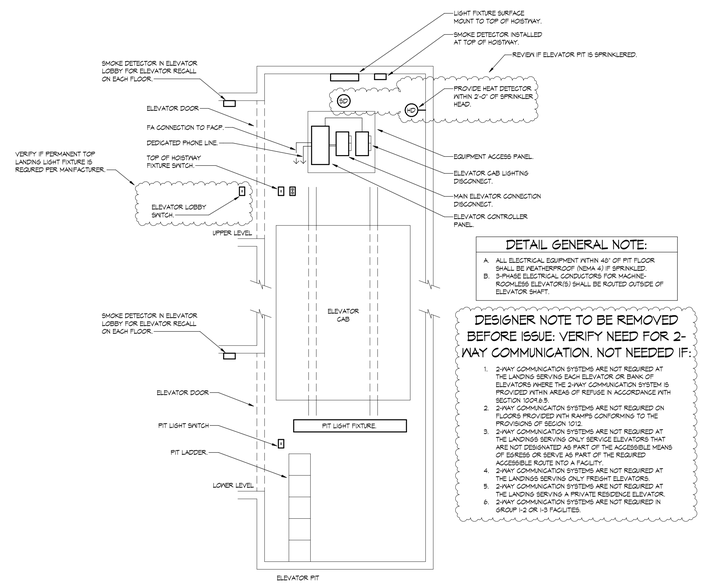


3 ARC FLASH LABEL DETAIL
SCALE: NTS



CONCRETE PAD SHALL BE MINIMUM 4" ABOVE FINISHED GRADE AND 10" THICK & 1/2" RE-BAR 1' O.C. 6" MIN. FROM PERIMETER

2 PAD FOR ERMCO 150-1000 KVA TRANSFORMER DETAIL
SCALE: NTS



DETAIL GENERAL NOTE:

A. ALL ELECTRICAL EQUIPMENT WITHIN 48" OF PIT FLOOR SHALL BE WEATHERPROOF (NEMA 4) IF SPRINKLED.
B. 3-PHASE ELECTRICAL CONDUCTORS FOR MACHINE-ROOMLESS ELEVATOR(S) SHALL BE ROUTED OUTSIDE OF ELEVATOR SHAFT.

DESIGNER NOTE TO BE REMOVED BEFORE ISSUE: VERIFY NEED FOR 2-WAY COMMUNICATION. NOT NEEDED IF:

1. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED AT THE LANDING SERVING EACH ELEVATOR OR BANK OF ELEVATORS WHERE THE 2-WAY COMMUNICATION SYSTEM IS PROVIDED WITHIN AREAS OF REFUGE IN ACCORDANCE WITH SECTION 1009.8.3.
2. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED ON FLOORS PROVIDED WITH RAMPS CONFORMING TO THE PROVISIONS OF SECCN 1012.
3. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED AT THE LANDINGS SERVING ONLY SERVICE ELEVATORS THAT ARE NOT DESIGNATED AS PART OF THE ACCESSIBLE MEANS OF EGRESS OR SERVE AS PART OF THE REQUIRED ACCESSIBLE ROUTE INTO A FACILITY.
4. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED AT THE LANDINGS SERVING ONLY FREIGHT ELEVATORS.
5. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED AT THE LANDING SERVING A PRIVATE RESIDENCE ELEVATOR.
6. 2-WAY COMMUNICATION SYSTEMS ARE NOT REQUIRED IN GROUP I-2 OR I-3 FACILITIES.

1 ELEVATOR DETAIL - MACHINE-ROOMLESS
SCALE: NTS

ICON ARCHITECTURAL GROUP
214 N 4TH STREET, SUITE 208
GRAND FORKS, ND 58203
(701) 772.4266 OFFICE
WWW.ICONARCHITECTS.COM

Valley City Public Schools New High School

STRUCTURAL
ICON ARCHITECTURAL GROUP
222 EAST MAIN STREET, SUITE B
MANDAN, ND 58554
(701) 751.0430 OFFICE

MECHANICAL
CMTA
2201 12TH STREET NORTH, SUITE E
FARGO, NORTH DAKOTA 58108
(701) 280.0500 OFFICE

ELECTRICAL
CMTA
2201 12TH STREET NORTH, SUITE E
FARGO, NORTH DAKOTA 58102
(701) 280.0500 OFFICE

CIVIL
LOWRY ENGINEERING
1111 WESTRAC DR. STE. 108
FARGO, ND 58103
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REGISTERED PROFESSIONAL ENGINEER
TRAVOR D. FREDRICKSON
PE - 27743
DATE 03/10/2026
NORTH DAKOTA

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	03/10/2026
1	ADDENDUM #1	03/17/2026

DRAWN BY: Author JN: 2025168

POWER DETAILS

SHEET
E731

3/17/2026 13:35:50 Autodesk Docs://24-028 Valley City Public Schools High School/2025168_Valley City Public Schools New High School_MEP26.rvt

Switchboard: MSB

LOCATION: ELEC B005a
SUPPLY FROM: GT CABINET
MOUNTING: FLOOR
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 2000 A
BUSSING: 2000 A

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	# OF POLES	TRIP RATING	Load	REMARKS
1	HLB		3	200 A	49220	
2	TLB		3	175 A	120584	
3	TLK		3	1 A	3240	
4	HLK		3	1 A	16071	
5	HLD		3	400 A	163379	
6	HMA		3	200 A	47705	
7	RTU-1		3	250 A	192050	
8	RTU-2		3	150 A	103092	
9	RTU-3		3	150 A	114731	
10	RTU-4		3	110 A	74825	
11	RTU-5		3	60 A	30244	
12	RTU-6		3	300 A	233619	
13	RTU-7		3	30 A	19953	NOTE 1
14	MAU-1, MECH B005		3	15 A	3326	
15	HWP-1, MECH B005		3	20 A	9146	
16	HWP-2, MECH B005		3	20 A	9146	
17	HUA		3	200 A	33416	
18	SPACE		3	--	--	NOTE 2
19	SPACE		3	--	--	NOTE 2
20	JEFFERSON ELEMENTARY		3	1200 A	0	
21						
22						
23						
24						
25						
26						
27						
28						
29						
30	SURGE PROTECTIVE DEVICE		3	100 A	0	
					1191051 VA	
					1433 A	

NOTES:
1. REMOVE UNDER ALTERNATE #13.
2. SPACE FOR FUTRE EQUIPMENT.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	868751 VA	100%	868751 VA	
Receptacle, Convenience	194860 VA	52.51%	102430 VA	TOTAL CONN. LOAD: 1191051 VA
Kitchen Equipment	0 VA	0%	0 VA	TOTAL EST. DEMAND: 1119713 VA
Lighting	84473 VA	125%	105591 VA	TOTAL CONN.: 1433 A
Receptacle,Non-Convenience/Power	22440 VA	100%	22440 VA	TOTAL EST. DEMAND: 1347 A
Power	19843 VA	100%	19843 VA	
Receptacle,Non-Convenience	0 VA	0%	0 VA	

MOTOR & EQUIPMENT SCHEDULE

GENERAL NOTES:
A. REFER TO PANELBOARD SCHEDULES FOR CONDUIT AND WIRE SIZES.
B. REFER TO SPEC SECTION 26 0519 FOR WIRING BETWEEN VFDS AND MOTORS.
C. IF LOCATION AND/OR FED FROM ARE BLANK, SEE DRAWINGS FOR LOCATION.

NOTES:
1. ELECTRICAL CONTRACTOR SHALL FURNISH, SET, AND WIRE & CONNECT.
2. ELECTRICAL CONTRACTOR SHALL SET, AND WIRE & CONNECT.
3. ELECTRICAL CONTRACTOR SHALL WIRE & CONNECT.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE POINT CONNECTION.
5. CONTROL WIRING BY MECHANICAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE DSD IN SUPPLY AND RETURN AIR DUCT WORK AND PROVIDE ADDRESSABLE CONTROL MODULE. FIRE ALARM SYSTEM SHALL SHUT UNIT DOWN UPON AN ALARM.
7. PROVIDE ADDRESSABLE FIRE ALARM CONTROL MODULE FOR ELEVATOR PRIMARY AND SECONDARY LEVEL RECALL AND FOR SHUNT TRIP OPERATION. PROVIDE ADDRESSABLE MONITOR MODULE TO MONITOR SHUNT TRIP.
8. PROVIDE 120V POWER VIA NEARBY RECEPTACLE CIRCUIT.
9. CORD, PLUG, AND CONTROL PANEL WIRING BY M.C. E.C. SHALL PROVIDE MATCHING RECEPTACLE.
10. REMOVE UNDER ALTERNATE #13.
11. PROVIDE UNDER ALTERNATE #1.

ID	QTY	DESCRIPTION	LOCATION: NAME	#	HP	kW	(MCA) FLA	(MFS) MOCP	VOLTAGE/ PHASE	FED FROM (PANEL-CIRCUIT)	LOCAL DISCONNECT: FURNISH BY	SIZE	FUSE SIZE	REMARKS	CONTROLLER: FURNISH BY	TYPE	SIZE	REMARKS	AUX. CONTROL: INTERLOCK	FIRE ALARM	ATC	OTHER	NOTES
(FUTURE 1)	1	HOT WATER PUMP	MECHANICAL	B005	--				480/3										--		--		
(FUTURE)	1	BOILER	MECHANICAL	B005	--				480/3										--		--		
B-1	1	BOILER	MECHANICAL	B005	--	--	(15)	20	480/3	HLB-15,17,19	EC	30A	NF	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
B-2	1	BOILER	MECHANICAL	B005	--	--	(15)	20	480/3	HLB-5,10,12	EC	30A	NF	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
BP-1	1	BOILER PUMP	MECHANICAL	B005	3	--	4.8	15	480/3	HLB-9,11,13					MC	VFD	--	NOTE 5	--	--	--	--	
BP-2	1	BOILER PUMP	MECHANICAL	B005	3	--	4.8	15	480/3	HLB-14,16,18					MC	VFD	--	NOTE 5	--	--	--	--	
GV-SB-1	1	SPLIT SYSTEM	ROOF	--	--	--	(10.3)	30	120/1	LMB-11	EC	30A	NF	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
GUH-1	1	CABINET UNIT HEATER	VESTIBULE	B006	FHP	--	--	--	120/1	LLK-72	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-2	1	CABINET UNIT HEATER	VESTIBULE	C000	FHP	--	--	--	120/1	LLD-54	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-3	1	CABINET UNIT HEATER	VESTIBULE	D000	FHP	--	--	--	120/1	LLC-9	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-5	1	CABINET UNIT HEATER	VESTIBULE	E100	FHP	--	--	--	120/1	LMA-45	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-6	1	CABINET UNIT HEATER	VESTIBULE	D000	FHP	--	--	--	120/1	LMA-40	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-7	1	CABINET UNIT HEATER	VESTIBULE	B004	FHP	--	--	--	120/1	LMA-45	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-8	1	CABINET UNIT HEATER	VESTIBULE	B100	FHP	--	--	--	120/1	LMA-42	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
GUH-9	1	CABINET UNIT HEATER	VESTIBULE	B100	FHP	--	--	--	120/1	LMB-14	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	5
EF-1	1	FAN	ROOF	--	1/4	--	2.4	15	208/1	LMB-24,26					MC	ECM	--	NOTE 5	--	--	--	--	
DF-1	1	DESRAT FAN	CIRCULATION	B113	--	--	1.3	15	120/1	LMA-37	MC	--	--	NOTE 4	MC	ECM	--	NOTE 2	--	--	--	--	
DF-2	1	DESRAT FAN	CIRCULATION	B113	--	--	1.3	15	120/1	LMA-38	MC	--	--	NOTE 4	MC	ECM	--	NOTE 2	--	--	--	--	
DF-3	1	DESRAT FAN	CIRCULATION	B113	--	--	1.3	15	120/1	LMA-40	MC	--	--	NOTE 4	MC	ECM	--	NOTE 2	--	--	--	--	
DRP-1	1	RECIRC PUMP	MECHANICAL	B005	1/2	--	4.8	20	120/1	LLB-43	EC	SPST	--	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
EF-1	1	EXHAUST FAN	ROOF	--	1/6	--	3	15	208/1	LMB-30,32	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	
EF-2	1	EXHAUST FAN	ROOF	--	1/4	--	2.4	15	208/1	LMD1-43,45	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	
ELEV	1	ELEVATOR			--	--			120/1						EB		--		--				
GEF-1	1	FAN	ROOF	--	3	--	4.8	20	480/3	HLB-21,23,25	MC	--	--	NOTE 4	MC	ECM	--	NOTE 5	--	--	--	--	
HWP-1	1	HOT WATER PUMP	MECHANICAL	B005	7.5	--	11	20	480/3	MSB-15					MC	VFD	--	NOTE 5	--	--	--	--	
HWP-2	1	HOT WATER PUMP	MECHANICAL	B005	7.5	--	11	20	480/3	MSB-16					MC	VFD	--	NOTE 5	--	--	--	--	
RTU-1	1	ROOF TOP UNIT	ROOF	--	--	--	124	150	480/3	MSB-1					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-2	1	ROOF TOP UNIT	ROOF	--	--	--	124	150	480/3	MSB-3					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-3	1	ROOF TOP UNIT	ROOF	--	--	--	138	150	480/3	MSB-4					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-4	1	ROOF TOP UNIT	ROOF	--	--	--	90	110	480/3	MSB-10					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-5	1	ROOF TOP UNIT	ROOF	--	--	--	49	60	480/3	MSB-11					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-6	1	ROOF TOP UNIT	ROOF	--	--	--	251	300	480/3	MSB-12					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	
RTU-7	1	ROOF TOP UNIT	ROOF	--	--	--	24	30	480/3	MSB-13					MC	VFD	--	NOTE 5	--	NOTE 6	--	--	12
SP-1	1	SUMP PUMP	STORAGE	D010B	3/4	--	13.8	25	120/1	LLB-49	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	SIMPLEX CP
SP-2A	1	SUMP PUMP	STORAGE	D010B	3/4	--	13.8	25	120/1	LLB-44	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SP-2B	1	SUMP PUMP	STORAGE	D010B	3/4	--	13.8	25	120/1	LLB-47	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SP-3A	1	SUMP PUMP	MECH	B005	3/4	--	13.8	25	120/1	LLB-38	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SP-3B	1	SUMP PUMP	MECH	B005	3/4	--	13.8	25	120/1	LLB-40	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SP-4A	1	SUMP PUMP	MUSIC STOR	D003C	3/4	--	13.8	25	120/1	LLC-35	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SP-4B	1	SUMP PUMP	MUSIC STOR	D003C	3/4	--	13.8	25	120/1	LLC-32	EC	--	--	NOTE 9	EB	CP	--	NOTE 2	--	NOTE 5	--	--	DUPLEX CP
SS-1	1	SPLIT SYSTEM	DATA	B004B					120/1	LLT-18									--	--	--	--	
SUH-1	1	SUSPENDED UNIT HEATER	GYM STORAGE	D010B	FHP	--	--	--	120/1	LLG-9	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
SUH-2	1	SUSPENDED UNIT HEATER	DATA	B004B	FHP	--	--	--	120/1	LLT-11	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
SUH-3	1	SUSPENDED UNIT HEATER	ELEC	B005B	FHP	--	--	--	120/1	LLB-21	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
SUH-4	1	SUSPENDED UNIT HEATER	MECHANICAL	B005	FHP	--	--	--	120/1	LLB-20	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
SUH-5	1	SUSPENDED UNIT HEATER	RECEIVING	B003	FHP	--	--	--	120/1	LLB-34	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
SUH-6	1	SUSPENDED UNIT HEATER	CUSTODIAL	B106	FHP	--	--	--	120/1	LMD1-25	MC	--	--	NOTE 4	MC	--	--	NOTE 5	--	--	--	--	5
TF-2	1	TRANSFER FAN	ELEC / IDF	C001A	1/4	--	5.8	15	120/1	LLD-54	MC	--	--	NOTE 2	MC	STAT	--	NOTE 5	--	--	--	--	
TF-3	1	TRANSFER FAN	ELEC/IDF	A113					208/1	LLB-54,56													
TF-4	1	TRANSFER FAN	ELEC / IDF	C101A	1/4	--	5.8	15	208/1	LMD1-3,5	MC	--	--	NOTE 2	MC	STAT	--	NOTE 5	--	--	--	--	
TF-5	1	TRANSFER FAN	ELEC/IDF	A213	1/4	--	5.8	15	208/1	LLA-41,43	MC	--	--	NOTE 2	MC	STAT	--	NOTE 5	--	--	--	--	
TF-6	1	TRANSFER FAN	MECHANICAL	B005	1/4	--	5.8	15	208/1	LLB-50,52	MC	--	--	NOTE 2	MC	STAT	--	NOTE 5	--	--	--	--	
TR-1	1	TRANSFER FAN	ELEC	B005B	1/4	--	5.8	15	208/1	LLB-51,53	MC	--	--	NOTE 2	MC	STAT	--	NOTE 5	--	--	--	--	
WH-1	1	WATER HEATER	MECHANICAL	B005	--	--	6.2	15	120/1	LLB-23	EC	SPST	--	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
WH-2	1	WATER HEATER	MECHANICAL	B005	--	--	6.2	15	120/1	LLB-45	EC	SPST	--	NOTE 1	MC	--	--	NOTE 5	--	--	--	--	
WS-1	1	WATER SOFTENER	MECHANICAL	B005	--	--	3.5	15	120/1	LLB-49	EC	--	--	GB	MC	--	--	NOTE 5	--	--	--	--	GFCI RECEPTACLE

PANELBOARD: HLB

LOCATION: ELEC B005a
SUPPLY FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A
BUSSING: 200 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	LIGHTING, RM A001, A002, D010A, D010B		20 A	1	1870 54			1	20 A		EMERGENCY LIGHTING	2
3	LIGHTING, RM B003-B005		20 A	1		1695 36		1	20 A		EXTERIOR LIGHTING	4
5	LIGHTING, CORRIDRS B000		20 A	1			656 1914	1	20 A		NORTH SITE LIGHTING	6
7	MONUMENT SIGN		20 A	1	0 4157							8
9						1330 4157		3	20 A		B-2, MECH B009	10
11	BP-1, MECH B009		20 A	3			1330 4157					12
13					1330 1330							14
15						4157 1330		3	20 A		BP-2, MECH B009	16
17	B-1, MECH B009		20 A	3			4157 1330					18
19					4157 134			1	20 A		ELEVATOR LIGHTING	20
21						1330						22
23	GEF-1		20 A	3			1330					24
25					1330							26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
					TOTAL LOAD (VA):	14152 VA	13907 VA				14465 VA	
					TOTAL AMPS:	51 A	50 A				54.2 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	36415 VA	100%	36415 VA	
Lighting	6150 VA	125%	7601 VA	TOTAL CONN. LOAD (VA): 49220 VA
Power	0 VA	0%	0 VA	TOTAL EST. DEMAND (VA): 44546 VA
				TOTAL CONNECTED: 52 A
				TOTAL EST. DEMAND: 54 A

PANELBOARD: HLD

LOCATION: ELEC / IDF C001a
SUPPLY FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 400 A
BUSSING: 400 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					30744 5651							2
3	TLD		225 A	3		36504 5565		3	200 A		HMD	4
5							34113 6605					6
7	LIGHTING, RM B000, B018				20 A 1 2186 1015			1	20 A		LIGHTING, CORRIDOR D000, D011, D012	8
9	LIGHTING, RM B012-B014, G001-G013				20 A 1	2035 2233		1	20 A		LIGHTING, GYMNASIM D010	10
11	LIGHTING, RM B015-B017, G002-G014				20 A 1		2462 2233	1	20 A		LIGHTING, GYMNASIM D010	12
13	LIGHTING, RM D001, D005, D008, D006				20 A 1 2019 3300			1	20 A		LIGHTING, MEZANTS D004	14
15	LIGHTING, MEZANTS D004				20 A 1	3600 3000		1	20 A		LIGHTING, MEZANTS D004	16
17	LIGHTING, MEZANTS D004				20 A 1		3400 1512	1	20 A		LIGHTING, RM D002, D004, D007, D009	18
19	LIGHTING, MEZANTS D004				20 A 1 2600 150			1	20 A		EAST SITE LIGHTING	20
21	EXTERIOR LIGHTING				20 A 1	540 611		1	20 A		SOUTH SITE LIGHTING	22
23	65R250 LIGHTING				20 A 1		1358					24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
					TOTAL LOAD (VA):	56361 VA	54790 VA				52231 VA	
					TOTAL AMPS:	205 A	199 A				188.6 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	5850 VA	100%	5850 VA	
Receptacle, Convenience	40560 VA	55.01%	54200 VA	TOTAL CONN. LOAD (VA): 163379 VA
Lighting	55931 VA	125%	69921 VA	TOTAL EST. DEMAND (VA): 130040 VA
Power	0 VA	0%	0 VA	TOTAL CONNECTED: 141 A
				TOTAL EST. DEMAND: 160 A

PANELBOARD: HLK

LOCATION: OFFICE B004
SUPPLY FROM: MSB
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 100 A
BUSSING: 100 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					0 0							2
3	DISHWASHING, DISH RETURN B010		20 A	3		0 0		3	20 A		COMBI OVEN, KITCHEN B007	4
5							0 0					6
7					0 0							8
9	COMBI OVEN, KITCHEN B007		20 A	3		0 0		3	20 A		COMBI OVEN TOP, KITCHEN B007	10
11							0 0					12
13					0 1541			1	20 A		LIGHTING, B006-B011	14
15	MIXER, KITCHEN B007		20 A	3		0 15		1	20 A		EMERGENCY LIGHTING	16
17							0 0					18
19					0 0			3	20 A		KITCHEN EQUIPMENT DISH RETURN B010	20
21	KITCHEN EQUIPMENT KITCHEN B007		20 A	3		0 0						22
23							0 0					24
25					0 0			3	20 A		KITCHEN EQUIPMENT	26
27	KITCHEN EQUIPMENT		20 A	3		0 0						28
29							0					30
31												32
33												34
35												36
37												38
39												40
41												42
					TOTAL LOAD (VA):	1541 VA	15 VA				0 VA	
					TOTAL AMPS:	6 A	0 A				0 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Kitchen Equipment	0 VA	0%	0 VA	
Lighting	1601 VA	125%	2001 VA	TOTAL CONN. LOAD (VA): 1601 VA
				TOTAL EST. DEMAND (VA): 2001 VA
				TOTAL CONNECTED: 2 A
				TOTAL EST. DEMAND: 2 A

PANELBOARD: HMA

LOCATION: ELEC/IDF A111a
SUPPLY FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A
BUSSING: 200 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					11520							2
3	TMA		110 A	3		12560						4
5							9540					6
7	LIGHTING, RM A101-A113		20 A	1	2668 1749			1	20 A		LIGHTING, CORRIDOR A100	8
9	LIGHTING, CORRIDOR A100, A114		20 A	1		1130 835		1	20 A		LIGHTING, RM A110, A114	10
11	LIGHTING, RM A102-A110		20 A	1			1665 2871	1	20 A		LIGHTING, RM B101-B104	12
13	LIGHTING, CONF RM B103A		20 A	1	2600							14
15	EMERGENCY LIGHTING		20 A	1		45						16
17	EXTERIOR LIGHTING		20 A	1			465					18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
					TOTAL LOAD (VA):	18541 VA	14621 VA				14544 VA	
					TOTAL AMPS:	67 A	53 A				52.5 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	2120 VA	100%	2120 VA	
Receptacle, Convenience	31500 VA	68.57%	20790 VA	TOTAL CONN. LOAD (VA): 47109 VA
Lighting	14087 VA	125%	17609 VA	TOTAL EST. DEMAND (VA): 40471 VA
				TOTAL CONNECTED: 57 A
				TOTAL EST. DEMAND: 49 A

PANELBOARD: HMD

LOCATION: ELEC/IDF C101a
SUPPLY FROM: HLD
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A
BUSSING: 200 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	LIGHTING, CIRCULATION B113, B121		20 A	1	877 2280			1	20 A		LIGHTING, CIRCULATION B121	2
3	LIGHTING, CIRCULATION B113		20 A	1		2280 2280		1	20 A		LIGHTING, CIRCULATION B121	4
5	LIGHTING, CIRCULATION B113		20 A	1			2280 1409	1	20 A		LIGHTING, MEDIA CENTER B105-B101	6
7	LIGHTING, RM B102, B104, C101-C111		20 A	1	2482 101			1	20 A		EMERGENCY LIGHTING	8
9	LIGHTING, CORRIDOR C113		20 A	1		1048						10
11	LIGHTING, RM B110-B112, C102-C112		20 A	1			2984					12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
					TOTAL LOAD (VA):	5651 VA	5565 VA				6605 VA	
					TOTAL AMPS:	20 A	20 A				23.9 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	17785 VA	125%	22231 VA	
				TOTAL CONN. LOAD (VA): 17785 VA
				TOTAL EST. DEMAND (VA): 22231 VA
				TOTAL CONNECTED: 21 A
				TOTAL EST. DEMAND: 27 A

PANELBOARD: HUA

LOCATION: ELEC/IDF A213a
SUPPLY FROM: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
OPTIONS:

A.I.C. RATING:
MAINS TYPE: MLO
MAINS RATING: 200 A
BUSSING: 200 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	LIGHTING, RM A201-A213		20 A	1	2121 51

PANELBOARD: LLB

LOCATION: ELEC B0058 | SUPPLY FROM: TLB | MOUNTING: SURFACE | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MCB | MAINS RATING: 300 A | BUSSING: 300 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					0 12834							2
3	SPARE		100 A	3		0 12674		3	200 A		LLG	4
5							0 12514					6
7			6424 900					1	20 A		RECEPT, TECH ED A001	8
9	LMB		200 A	3	6660 900			1	20 A		RECEPT, TECH ED A001	10
11						4546 1440		1	20 A		RECEPT, TECH ED A001	12
13	RECEPT, ART B001		20 A	1	1440 720			1	20 A		RECEPT, RM A002, D012B	14
15	RECEPT, ART B001		20 A	1	900			1	20 A		RECEPT, MECH B005	16
17	RECEPT, ART B001		20 A	1		720 1260		1	20 A		RECEPT, MECH B005	18
19	RECEPT, ELEC B005A		20 A	1	360 120			1	20 A		SM-4, MECH B005	20
21	SM-2, ELEC B005A		20 A	1	120 360			1	20 A		RECEPT, BLDG STOR B004, B004A	22
23	RH-1, MECHANICAL B005		20 A	1		772 1080		1	20 A		RECEPT, OFFICE B005A, B002	24
25	RECEPT, RECEIVING B003		20 A	1	1080 180			1	20 A		RECEPT, RECEIVING B003	26
27	RECEPT, RECEIVING B003		20 A	1		180 180		1	20 A		RECEPT, RECEIVING B003	28
29	RECEPT, RECEIVING B003		20 A	1			180 180	1	20 A		RECEPT, RECEIVING B003	30
31	RECEPT, RECEIVING B003		20 A	1	180 900			1	20 A		OVERHEAD DOOR, RECEIVING B003	32
33	RECEPT, RECEIVING B003		20 A	1		180 720		1	20 A		SM-5, RECEIVING B003	34
35	RECEPT, RECEIVING B003		20 A	1			180 720	1	20 A		RECEPT, COMMONS B030	36
37	RECEPTACLE,NON-CONVENIENCE,POWER KILN B001A		50 A	2	5760 1656			1	20 A		SP-3A, MECH B005	38
39						5760 1656		1	20 A		SP-3B, MECH B005	40
41							900 1	1	20 A		RECEPTACLE, CONVENIENCE COMMONS B030	42
43	DPR-1, MECH B005		20 A	1	1116 1656			1	20 A		SP-2A, STORAGE D012B	44
45	SP-1, STORAGE D012B		20 A	1		1656 180		1	20 A		RECEP, ELEVATOR SHAFT	46
47	SP-2B, STORAGE D012B		20 A	1			1656 772	1	20 A		RH-1, MECHANICAL B005	48
49	RB-1, MECHANICAL B005		20 A	1	420 804			2	20 A		TF-B, MECHANICAL B005	50
51	TF-1 ELEC B005A		20 A	2		604 604						52
53							804 604	2	20 A		TF-3, ELEC/IDF A111B	54
55						804						56
57												58
59												60

TOTAL LOAD (VA): 38618 VA | 30733 VA | 33237 VA
TOTAL AMPS: 305 A | 256 A | 280.2 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	21866 VA	100%	21866 VA	
Receptacle, Convenience	38540 VA	83.66%	23210 VA	TOTAL CONN. LOAD (VA): 100584 VA
Receptacle,non-Convenience/Power	22440 VA	100%	22440 VA	TOTAL EST. DEMAND (VA): 87519 VA
Power	19643 VA	100%	19643 VA	TOTAL CONNECTED: 274 A
				TOTAL EST. DEMAND: 242 A

PANELBOARD: LLC

LOCATION: GUST D005 | SUPPLY FROM: LLD | MOUNTING: FLUSH | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MLO | MAINS RATING: 200 A | BUSSING: 200 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	RECEPT, MUSIC D003		20 A	1	720 720			1	20 A		RECEPT, RM D009, D006, D012	2
3	RECEPT, MUSIC D003, D003c		20 A	1		900 900		1	20 A		RECEPT, OFFICE D005A	4
5	RECEPT, MUSIC D003, D003b		20 A	1			1080 360	1	20 A		RECEPT, PRACTICE D001	6
7	DOOR OPENERS, VESTIBULE D000		20 A	1	1000 500			1	20 A	GFCI	ELECTRIC WATER COOLER, CORRIDOR D011	8
9	GM-1/GM-4, VESTIBULE D000		20 A	1		0 500		1	20 A	GFCI	ELECTRIC WATER COOLER, CORRIDOR D011	10
11	RECEPT, CONCESSIONS D001		20 A	1			1261 500	1	20 A	GFCI	ELECTRIC WATER COOLER, CORRIDOR D011	12
13	RECEPT, CONCESSIONS D001		20 A	1	180 500			1	20 A	GFCI	ELECTRIC WATER COOLER, CORRIDOR D011	14
15	RECEPT, CONCESSIONS D001		20 A	1		180 500		1	20 A		OVERHEAD DOOR, CONCESSIONS D001	16
17	RECEPT, CONCESSIONS D001		20 A	1			180 900	1	20 A		RECEPT, TRAINING D008	18
19	REFRIGERATOR, CONCESSIONS D001		20 A	1	180 900			1	20 A		RECEPT, MENS LOCKER ROOM D004, D004b	20
21	RECEPT, OFFICE D004A		20 A	1		1080 900		1	20 A		RECEPT, WOMENS LOCKER ROOM D002, D002B	22
23	RECEPT, OFFICE D002A		20 A	1			1260 360	1	20 A		RECEPT, WEIGHTS D009	24
25	RECEPT, CORRIDOR D011		20 A	1	540 360			1	20 A		RECEPT, WEIGHTS D009	26
27	DATA RACK, MUSIC STOR D003C		20 A	1		360 360		1	20 A		RECEPT, WEIGHTS D009	28
29	RECEPT, WEIGHTS D009		20 A	1			360 360	1	20 A		RECEPT, WEIGHTS D009	30
31	RECEPT, WEIGHTS D009		20 A	1	360 1656			1	20 A		SP-4B, MUSIC STOR D003C	32
33	RECEPT, WEIGHTS D009		20 A	1		360 360		1	20 A		RECEPT, ROOF	34
35	SP-4A, MUSIC STOR D003C		20 A	1			1656					36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60

TOTAL LOAD (VA): 7616 VA | 6400 VA | 7196 VA
TOTAL AMPS: 64 A | 53 A | 61 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	4012 VA	100%	4012 VA	
Receptacle, Convenience	18400 VA	80.49%	13200 VA	TOTAL CONN. LOAD (VA): 21212 VA
				TOTAL EST. DEMAND (VA): 18012 VA
				TOTAL CONNECTED: 214 A
				TOTAL EST. DEMAND: 150 A

PANELBOARD: LLD

LOCATION: ELEC / IDF G001B | SUPPLY FROM: TLD | MOUNTING: SURFACE | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MCB | MAINS RATING: 400 A | BUSSING: 400 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					7616 9748							2
3	LLC		200 A	3		6400 10448		3	200 A		LMD1	4
5							7196 10110					6
7	RECEPT, BUSINESS G001, G001B		20 A	1	1080 180			1	20 A		RECEPT, SCHOOL STORE B012	8
9	RECEPT, BUSINESS G001		20 A	1		1260 180		1	20 A		RECEPT, SCHOOL STORE B012	10
11	RECEPT, SCHOOL STORE B012		20 A	1			180 180	1	20 A		RECEPT, SCHOOL STORE B012	12
13	RECEPT, SCHOOL STORE B012		20 A	1	180 180			1	20 A		RECEPT, SCHOOL STORE B012	14
15	RECEPT, SCHOOL STORE B012		20 A	1		180 180		1	20 A		HEAT PRESS, STORAGE B012A	16
17	RECEPT, SCHOOL STORE B012		20 A	1			180 360	1	20 A		RECEPT, SCHOOL STORE B012	18
19	COPIER, STAFF PARK B013		20 A	1	180 900			1	20 A	GFCI	ELECTRIC WATER COOLER, COMMONS B030	20
21	MICROWAVE, SCHOOL STORE B012		20 A	1		1500 900		1	20 A	GFCI	ELECTRIC WATER COOLER, COMMONS B030	22
23	RECEPT, RH B013, B014		20 A	1			900 900	1	20 A		RECEPT, RH B013, B014, B011	24
25	RECEPT, COMMONS B030		20 A	1	1440 900			1	20 A		RECEPT, 1 MATH G008	26
27	RECEPT, LC G002		20 A	1		900 1080		1	20 A		RECEPT, 1 MATH G009	28
29	RECEPT, LC G002		20 A	1			900 900	1	20 A		RECEPT, 2 MATH G010	30
31	RECEPT, ALC G004		20 A	1	900 1080			1	20 A		RECEPT, 2 MATH G010	32
33	RECEPT, ALC G004		20 A	1		1080 1260		1	20 A		RECEPT, 3 MATH G012	34
35	RECEPT, RM G008A, G006B		20 A	1			1080 900	1	20 A		RECEPT, 3 MATH G012	36
37	RECEPT, 4 MATH G014		20 A	1	1080 180			1	20 A		REFRIGERATOR, SPED G003	38
39	RECEPT, 4 MATH G014		20 A	1		1260 900		1	20 A		RECEPT, SPED G005	40
41	RECEPT, SPED G003		20 A	1			720 540	1	20 A		RECEPT, SPED G005	42
43	RECEPT, SPED G003		20 A	1	900 900			1	20 A		RECEPT, 5 55 G011	44
45	RECEPT, 1 55 G007		20 A	1		900 1080		1	20 A		RECEPT, 4 55 G013	46
47	RECEPT, 1 55 G007		20 A	1			1080 900	1	20 A		RECEPT, 4 55 G013	48
49	RECEPT, 2 55 G009		20 A	1	900 1080			1	20 A		RECEPT, 4 55 G013	50
51	RECEPT, 2 55 G009		20 A	1		1080 1152		1	20 A		RECEPT 4 DOOR OPENERS, VESTIBULE G000	52
53	RECEPT, GROUP G013		20 A	1			900 0	1	20 A		GM-2, VESTIBULE G000	54
55	RECEPT, CORRIDOR G016, G000A		20 A	1	1080 1080			1	20 A		RECEPTACLE, CONVENIENCE COMMONS B030	56
57	DOOR OPENER, ALC G004		20 A	1		0 5320						58
59	98-3, ELEC / IDF G001A		20 A	1			1207 5040	3	200 A		LMD2	60
61					7560							62
63												64
65												66
67												68
69												70
71												72
73												74
75												76
77												78
79												80
81												82
83												84

TOTAL LOAD (VA): 38744 VA | 36506 VA | 34173 VA
TOTAL AMPS: 326 A | 307 A | 284.9 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	6980 VA	100%	6980 VA	
Receptacle, Convenience	92560 VA	99.07%	54280 VA	TOTAL CONN. LOAD (VA): 104428 VA
Lighting	1913 VA	125%	2391 VA	TOTAL EST. DEMAND (VA): 85621 VA
Power	0 VA	0%	0 VA	TOTAL CONNECTED: 304 A
				TOTAL EST. DEMAND: 182 A

PANELBOARD: LLE

LOCATION: ELEC B0058 | SUPPLY FROM: TLB | MOUNTING: SURFACE | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MCB | MAINS RATING: 300 A | BUSSING: 300 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1					0 12834							2
3	SPARE		100 A	3		0 12674		3	200 A		LLG	4
5							0 12514					6
7			6424 900					1	20 A		RECEPT, TECH ED A001	8
9	LMB		200 A	3	6660 900			1	20 A		RECEPT, TECH ED A001	10
11						4546 1440		1	20 A		RECEPT, TECH ED A001	12
13	RECEPT, ART B001		20 A	1	1440 720			1	20 A		RECEPT, RM A002, D012B	14
15	RECEPT, ART B001		20 A	1	900			1	20 A		RECEPT, MECH B005	16
17	RECEPT, ART B001		20 A	1		720 1260		1	20 A		RECEPT, MECH B005	18
19	RECEPT, ELEC B005A		20 A	1	360 120			1	20 A		SM-4, MECH B005	20
21	SM-2, ELEC B005A		20 A	1	120 360			1	20 A		RECEPT, BLDG STOR B004, B004A	22
23	RH-1, MECHANICAL B005		20 A	1		772 1080		1	20 A		RECEPT, OFFICE B005A, B002	24
25	RECEPT, RECEIVING B003		20 A	1	1080 180			1	20 A		RECEPT, RECEIVING B003	26
27	RECEPT, RECEIVING B003		20 A	1		180 180		1	20 A		RECEPT, RECEIVING B003	28
29	RECEPT, RECEIVING B003		20 A	1			180 180	1	20 A		RECEPT, RECEIVING B003	30
31	RECEPT, RECEIVING B003		20 A	1	180 900			1	20 A		OVERHEAD DOOR, RECEIVING B003	32
33	RECEPT, RECEIVING B003		20 A	1		180 720		1	20 A		SM-5, RECEIVING B003	34
35	RECEPT, RECEIVING B003		20 A	1			180 720	1	20 A		RECEPT, COMMONS B030	36
37	RECEPTACLE,NON-CONVENIENCE,POWER KILN B001A		50 A	2	5760 1656			1	20 A		SP-3A, MECH B005	38
39						5760 1656		1	20 A		SP-3B, MECH B005	40
41							900 1	1	20 A		RECEPTACLE, CONVENIENCE COMMONS B030	42
43	DPR-1, MECH B005		20 A	1	1116 1656			1	20 A		SP-2A, STORAGE D012B	44
45	SP-1, STORAGE D012B		20 A	1		1656 180		1	20 A		RECEP, ELEVATOR SHAFT	46
47	SP-2B, STORAGE D012B		20 A	1			1656 772	1	20 A		RH-1, MECHANICAL B005	48
49	RB-1, MECHANICAL B005		20 A	1	420 804			2	20 A		TF-B, MECHANICAL B005	50
51	TF-1 ELEC B005A		20 A	2		604 604						52
53							804 604	2	20 A		TF-3, ELEC/IDF A111B	54
55						804						56
57												58
59												60

TOTAL LOAD (VA): 38618 VA | 30733 VA | 33237 VA
TOTAL AMPS: 305 A | 256 A | 280.2 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	21866 VA	100%	21866 VA	
Receptacle, Convenience	38540 VA	83.66%	23210 VA	TOTAL CONN. LOAD (VA): 100584 VA
Receptacle,non-Convenience/Power	22440 VA	100%	22440 VA	TOTAL EST. DEMAND (VA): 87519 VA
Power	19643 VA	100%	19643 VA	TOTAL CONNECTED: 274 A
				TOTAL EST. DEMAND: 242 A

PANELBOARD: LLG

LOCATION: GYM STORAGE D012B | SUPPLY FROM: LLB | MOUNTING: SURFACE | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MLO | MAINS RATING: 200 A | BUSSING: 200 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	RECEPT, GYMNASIUM D010		20 A	1	1080 1920			1	20 A		SCOREBOARD, GYMNASIUM D010	2
3	RECEPT, GYMNASIUM D010		20 A	1		1080 1920		1	20 A		SCOREBOARD, GYMNASIUM D010	4
5	BLEACHERS, GYMNASIUM D010		20 A	1			1080 1920	1	20 A		SCOREBOARD, GYMNASIUM D010	6
7	BLEACHERS, GYMNASIUM D010		20 A	1	1080 1920			1	20 A		SCOREBOARD, GYMNASIUM D010	8
9	SM-1, STORAGE D012A		20 A	1		120 1080		1	20 A		RECEPT, GYMNASIUM D010	10
11	RECEPT, GYMNASIUM D010		20 A	1			1080 180	1	20 A		RECEPT, GYMNASIUM D010	12
13	RECEPT, GYMNASIUM D010		20 A	1	180 180			1	20 A		RECEPT, GYMNASIUM D010	14
15	RECEPT, GYMNASIUM D010		20 A	1		180 180		1	20 A		RECEPT, GYMNASIUM D010	16
17	RECEPT, GYMNASIUM D010		20 A	1			180 1800	1	20 A		HOOP, GYMNASIUM D010	18
19	HOOP, GYMNASIUM D010		20 A	1	1500 1500			1	20 A		HOOP, GYMNASIUM D010	20
21	HOOP, GYMNASIUM D010		20 A	1		1500 1500		1	20 A		HOOP, GYMNASIUM D010	22
23	HOOP, GYMNASIUM D010		20 A	1			1500 180	1	20 A		SHOT CLOCK, GYMNASIUM D010	24
25	SHOT CLOCK, GYMNASIUM D010		20 A	1	180 180			1	20 A		SHOT CLOCK, GYMNASIUM D010	26
27	SHOT CLOCK, GYMNASIUM D010		20 A	1		180 180		1	20 A		SHOT CLOCK, GYMNASIUM D010	28
29	SHOT CLOCK, GYMNASIUM D010		20 A	1			180 1420	1	20 A		DIVIDER CURTAIN, GYMNASIUM D010	30
31	RECEPT, ROOF		20 A	1	360 333							32
33						1321 333		3	20 A		REST BLEACHERS DISCONNECT, GYMNASIUM D010	34
35	MAT HOIST, GYMNASIUM D010		20 A	3			1321 333					36
37					1321 333							38
39						333 333		3	20 A		SOUTHWEST BLEACHERS DISCONNECT, GYMNASIUM D010	40
41	EAST BLEACHERS DISCONNECT, GYMNASIUM D010		20 A	3			333 333					42
43					333							44
45						333						46
47	SOUTHEAST BLEACHERS DISCONNECT, GYMNASIUM D010		20 A	3			333					48
49					333							50
51												52
53												54
55												56
57												58
59												60

TOTAL LOAD (VA): 11520 VA | 12560 VA | 9540 VA
TOTAL AMPS: 96 A | 105 A | 79.5 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	2120 VA	100%	2120 VA	
Receptacle, Convenience	31500 VA	65.87%	20750 VA	TOTAL CONN. LOAD (VA): 33620 VA
				TOTAL EST. DEMAND (VA): 22870 VA
				TOTAL CONNECTED: 93 A
				TOTAL EST. DEMAND: 63 A

PANELBOARD: LLK

LOCATION: OFFICE B005 | SUPPLY FROM: TLK | MOUNTING: FLUSH | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MCB | MAINS RATING: 100 A | BUSSING: 100 A

Notes:

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	REFRIGERATED DISPLAY CASE, SERVERY B003		20 A	2	0							2
3						0						4
5	REFRIGERATED DISPLAY CASE, SERVERY B003		20 A	2			0					6
7					0 0			1	20 A		CONDENSATE HOOD, DISH RETURN B010	8
9	HEATED COUNTERTOP DISPLAY, SERVERY B003		20 A	1		0 0		2	20 A		SERVING COUNTER, SERVERY B003	10
11	CASH REGISTER STANDS, SERVERY B003		20 A	1			0 0					12
13	HOT HOLDING CABINET, SERVERY B003		20 A	2	0 0			2	20 A		SERVING COUNTER, SERVERY B003	14
15						0 0						16
17	COLD HOLDING CABINET, SERVERY B003		20 A	1			0 0	1	20 A		MICROWAVE, SERVERY B003	18
19	BLENDER, SERVERY B003		20 A	1	0 0			1	20 A		REFRIGERATOR, SERVERY B003	20
21	BLENDER, SERVERY B003		20 A	1		0 0		1	20 A		COFFEE/TEA BREWER, SERVERY B003	22
23	ICE MACHINE, SERVERY B003		20 A	1			0 0	1	20 A		COFFEE GRINDER, SERVERY B003	24
25	OVERHEAD DOOR, SERVERY B003		20 A	1	0 0			1	20 A		POS SYSTEM, SERVERY B003	26
27	HEATED CABINET, KITCHEN B007		20 A	2		0 0						28
29							0 0	3	20 A		CONVECTION OVEN, KITCHEN B007	30
31					0 0							32
33	HOT PLATE, KITCHEN B007		20 A	3		0 0						34
35							0 0	3	20 A		CONVECTION OVEN, KITCHEN B007	36
37					0							38
39						0		1	20 A		FIRE SUPPRESSION CABINET, KITCHEN B007	40
41							0	1	20 A		EXHAUST HOOD, KITCHEN B007	42
43					0			1	20 A		HOOD CONTROLS, KITCHEN B007	44
45						0		1	20 A		ISLAND PREP TABLE, KITCHEN B007	46
47							0	1	20 A		WALK-IN COOLER, KITCHEN B007	48
49	COOLER EVAPORATOR COIL, KITCHEN B007		20 A	1	0 0			1	20 A		WALK-IN FREEZER, KITCHEN B007	50
51						0		2	20 A		FREEZER EVAPORATOR COIL, KITCHEN B007	52
53							0					54
55					0			1	20 A		DEFROST PLUG, KITCHEN B007	56
57	WATER HETER, KITCHEN B007		20 A	1		0 0		2	20 A		DISPOSER, KITCHEN B007	58
59	ELECTRIC CAN OPENER, KITCHEN B007		20 A	1			180 0					60
61	RECEPT, SERVERY B003		20 A	1	0 180			1	20 A		RECEPT, KITCHEN B007	62
63	RECEPT, SERVERY B003		20 A	1		0 180		1	20 A		RECEPT, KITCHEN B007	64
65	RECEPT, SERVERY B003		20 A	1			360 180	1	20 A		RECEPT, KITCHEN B007	66
67	RECEPT, SERVERY B003		20 A	1	0 180			1	20 A		RECEPT, KITCHEN B007	68
69	RECEPT, SERVERY B003		20 A	1		1440 360		1	20 A		RECEPT, DRY STORAGE B011	70
71	GM-4, VESTIBULE B008		20 A	1			180 0	1	20 A		GM-1, VESTIBULE B008	72
73												74
75												76
77												78
79												80
81												82
83												84

TOTAL LOAD (VA): 360 VA | 1980 VA | 900 VA
TOTAL AMPS: 3 A | 17 A | 8.2 A

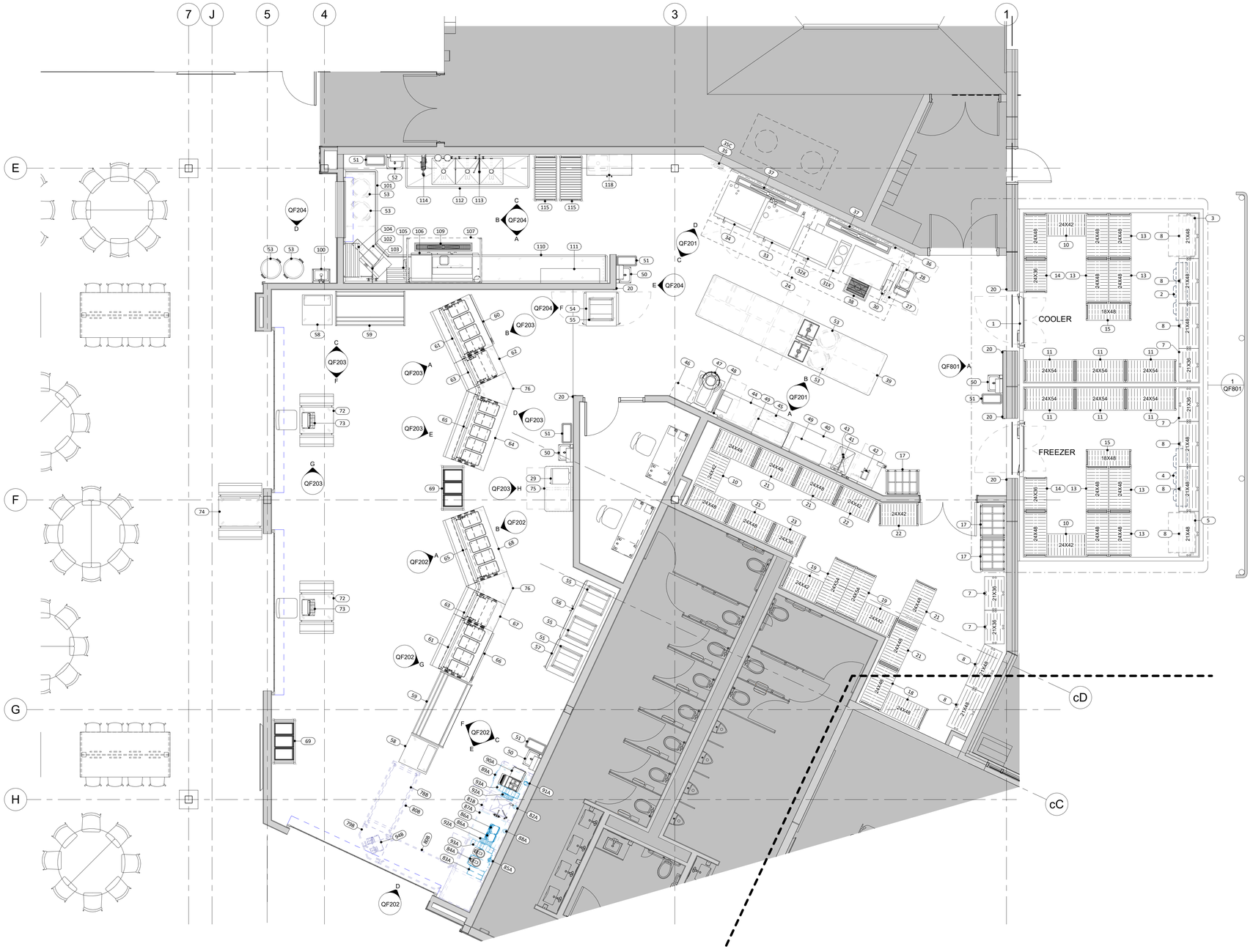
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor/HVAC/Mech	0 VA	0%	0 VA	
Receptacle, Convenience	3240 VA	100%	3240 VA	TOTAL CONN. LOAD (VA): 3240 VA
Kitchen Equipment	0 VA	0%	0 VA	TOTAL EST. DEMAND (VA): 3240 VA
Receptacle,Non-Convenience	0 VA	0%	0 VA	TOTAL CONNECTED: 9 A
				TOTAL EST. DEMAND: 9 A

PANELBOARD: LLT

LOCATION: DATA B004B | SUPPLY FROM: | MOUNTING: FLUSH | ENCLOSURE: NEMA 1
VOLTS: 208/120 Wye | PHASES: 3 | WIRES: 4 | OPTIONS:
A.I.C. RATING: | MAINS TYPE: MLO | MAINS RATING: 100 A | BUSSING: 100 A

Notes:
1. PROVIDE 20/1 SPARES FOR ALL BLANK SPACES.

CKT	CIRCUIT DESCRIPTION	CONDUIT & WIRE	TRIP	POLE	A (VA)	B (VA)	C (VA)	POLE	TRIP	CONDUIT & WIRE	CIRCUIT DESCRIPTION	CKT
1	RECEPT, DATA B004B		20 A	1	180 180			1	20 A		RECEPT, DATA B004B	2
3	RECEPT, DATA B004B		20 A	1		180 180		1	20 A		RECEPT, DATA B004B	4
5	RECEPT, DATA B004B		20 A	1			180 180	1	20 A		RECEPT, DATA B004B	6
7	RECEPT, DATA B004B		20 A	1	180 0							8
9	RECEPT, DATA B004B		20 A	1		180 0		3	30 A		RECEPT, DATA B004B	10
11	SM-3, DATA B004B		20 A	1			120 0					12
13					0 180			1	20 A		RECEPT, DATA B004B	14
15	RECEPT, DATA B004B		30 A	3		0 0		1	20 A		98-1, DATA B004B	16
17							0					18



1 FOODSERVICE EQUIPMENT PLAN
1/4" = 1'-0"

EQUIPMENT NOTES

1. THE FOODSERVICE EQUIPMENT PLANS ARE FOR REFERENCE ONLY TO ASSIST THE LICENSED GENERAL CONTRACTOR (GC) & OTHER TRADES IN THEIR WORK. THE OWNER IS RESPONSIBLE FOR ADDITIONAL SUBMITTALS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION (AHJS). THE FOODSERVICE EQUIPMENT PLANS ARE NOT INTENDED TO BE COMPLETE CONSTRUCTION PLANS.
2. ALL TRADES SHALL VERIFY THE REQUIREMENTS OF THE NATIONAL, STATE AND LOCAL BUILDING CODES PRIOR TO INSTALLING.
3. THE GC SHALL FURNISH & INSTALL REINFORCEMENT ABOVE THE FINISHED CEILING FOR HANGING FSEC FURNISHED EQUIPMENT INCLUDING KITCHEN EXHAUST HOODS. THE GC SHALL COORDINATE THE EXACT SIZE & REQUIREMENTS WITH FSEC & CORRESPONDING MANUFACTURER SHOP DRAWINGS.
4. GC FIRE-RATED SHAFTS WHERE REQUIRED FOR KITCHEN EXHAUST DUCTS IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL BUILDING CODES.
5. GC SHALL FURNISH & INSTALL STRUCTURAL SUPPORT FOR ROOFTOP EQUIPMENT WHERE REQUIRED. GC SHALL COORDINATE WITH THE ARCHITECT & ENGINEER TO VERIFY THE STRUCTURAL CALCULATIONS FOR ROOF LOADS.
6. THE FSEC SHALL NOTIFY THE DESIGNER OF CHANGES TO THE FOODSERVICE EQUIPMENT PLANS & COORDINATE WITH GC & OTHER TRADES.
7. FSEC SHALL VERIFY ALL EQUIPMENT SIZES & FIELD VERIFY THE LOCATIONS & REQUIREMENTS OF ROUGH-INS IN THE EVENT OF CHANGES TO FOODSERVICE EQUIPMENT PLANS.

FOODSERVICE EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	STATUS	FURNISHED BY	INSTALLED BY
1	1	WALK-IN COOLER/FREEZER	NEW	FSEC	FSEC
2	1	COOLER EVAPORATOR COIL	NEW	FSEC	FSEC
3	1	COOLER REMOTE CONDENSING UNIT	NEW	FSEC	FSEC
4	1	FREEZER EVAPORATOR COIL	NEW	FSEC	FSEC
5	1	FREEZER REMOTE CONDENSING UNIT	NEW	FSEC	FSEC
6		SPARE NUMBER			
7	4	36" X 21" DUNNAGE RACK	NEW	FSEC	FSEC
8	8	48" X 21" DUNNAGE RACK	NEW	FSEC	FSEC
9		SPARE NUMBER			
10	3	48" X 90" X 48" X 84"H U-SHAPED 5-TIER SHALVING UNIT	NEW	FSEC	FSEC
11	6	54" X 68" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	DIV. 23
12		SPARE NUMBER			
13	6	48" X 24" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
14	2	36" X 24" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
15	2	48" X 18" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
16		SPARE NUMBER			
17	3	36" X 24" X 72" CAN RACK SHELVING UNIT	NEW	FSEC	FSEC
18	1	72" X 48" X 84"H L-SHAPED 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
19	2	68" X 54" X 84"H L-SHAPED 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
20	5	STAINLESS STEEL CORNER GUARDS	NEW	FSEC	FSEC
21	5	48" X 24" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
22	2	42" X 24" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
23	1	36" X 24" X 84"H 5-TIER SHELVING UNIT	NEW	FSEC	FSEC
24	1	102" EXHAUST HOOD	NEW	FSEC	FSEC
25	1	EXHUAST FAN (NOT SHOWN)	NEW	DIV. 23	DIV. 23
26	1	MAKE-UP AIR UNIT (NOT SHOWN)	NEW	DIV. 23	DIV. 23
27	1	HOOD CONTROLS	NEW	FSEC	FSEC
28	1	FIRE SUPRESSION CABINET	NEW	FSEC	FSEC
29	1	MICROWAVE OVEN	NEW	FSEC	FSEC
30	1	40GAL TILT SKILLET	NEW	FSEC	FSEC
31X	1	12" 2-BURNER RANGE, ELECTRIC	RELOCATED	OWNER	FSEC
32X	1	DOUBLE STACKED ELECTRIC CONVECTION OVEN	RELOCATED	OWNER	FSEC
33	1	DOUBLE STACK 6-FULL COMBI OVEN	NEW	FSEC	FSEC
34	1	ROLL-IN 20-FULL COMBI OVEN	NEW	FSEC	FSEC
35	1	COMBI OVEN WATER FILTRATION SYSTEM	NEW	FSEC	DIV. 22
35C	1	COMBI OVEN WATER FILTRATION SYSTEM	NEW	FSEC	DIV. 22
36	1	TILIT SKILLET WATER FILTRATION SYSTEM	NEW	FSEC	DIV. 22
37	2	72" X 8" FLOOR TROUGH	NEW	FSEC	DIV. 22
38	1	24" X 18" ANTI-SPLASH FLOOR TROUGH	NEW	FSEC	DIV. 22
39	1	207" X 48" ISLAND PREP TABLE	NEW	FSEC	FSEC
40	1	106" X 30" COLD PREP TABLE WITH SINK	NEW	FSEC	FSEC
41	1	PRE-RINSE WITH ULTRARINSE ADD-ON FAUCET	NEW	FSEC	DIV. 22
42	1	ELECTRIC CAN OPENER	NEW	FSEC	FSEC
43	1	2 HP DISPOSER	NEW	FSEC	DIV. 22
44	1	84" X 30" BAKERS TOP WORKTABLE WITH DRAWERS	NEW	FSEC	FSEC
45	1	36" X 21" DUNNAGE RACK	NEW	FSEC	FSEC
46	1	24" X 16" WALL SHELF WITH UTENSIL RACK	NEW	FSEC	FSEC
47	1	60 QT. MIXER	NEW	FSEC	FSEC
48	1	WATER METER	NEW	FSEC	DIV. 22
49	2	36" X 18" PREP SHELVING	NEW	FSEC	FSEC
50	4	HANDSINK WITH KNEE APRON	NEW	FSEC	DIV. 22
51	LOT	SLIM JIM TRASH CAN	NEW	OWNER	OWNER
52	1	HANDSINK WITH KNEE APRON & EYE WASH STATION	NEW	FSEC	DIV. 22
53	LOT	BRUTE TRASH CAN	NEW	OWNER	OWNER
54	1	1-SEC. ROLL-THRU HEATED CABINET WITH GLASS DORRS	NEW	FSEC	FSEC
55	4	SHEET PAN RACK	NEW	FSEC	FSEC
56	1	2-SEC. ROLL-IN COLD HOLDING CABINET WITH GLASS DOORS	NEW	FSEC	FSEC
57	1	1-SEC. ROLL-IN HOT HOLDING CABINET WITH GLASS DOOR	NEW	FSEC	FSEC
58	2	TRAY STAND CART	NEW	FSEC	FSEC
59	2	74" REFRIGERATED DISPLAY CASE WITH MILK CRATE HOLDER	NEW	FSEC	FSEC
60	1	60" 4-WELL HOT FOOD SERVING COUNTER	NEW	FSEC	FSEC
61	2	60" SNEEZE GUARD	NEW	FSEC	FSEC
62	1	32" 2-WELL COLD FOOD SERVING COUNTER	NEW	FSEC	FSEC
63	2	32" SNEEZE GUARD	NEW	FSEC	FSEC
64	1	74" 5-WELL SALAD SERVING COUNTER	NEW	FSEC	FSEC
65	2	74" SNEEZE GUARD	NEW	FSEC	FSEC
66	1	60" 4-WELL HOT FOOD SERVING COUNTER	NEW	FSEC	FSEC
67	1	32" 2-WELL COLD FOOD SERVING COUNTER	NEW	FSEC	FSEC
68	1	74" 5-WELL SALAD SERVING COUNTER	NEW	FSEC	FSEC
69	2	MERCHANDISING DISPLAY RACK	NEW	FSEC	FSEC
70-71		SPARE NUMBER			
72	2	CASH REGISTER STAND	NEW	FSEC	FSEC
73	2	POS SYSTEM	OWNER	OWNER	OWNER
74	1	46" CONDIMENT COUNTER	NEW	FSEC	FSEC
75	1	48" X 30" WORK CABINET WITH DRAWERS	NEW	FSEC	FSEC
76	2	45 DEGREE FILLER UTILITY COUNTER (1)	NEW	FSEC	FSEC
77		SPARE NUMBER			
78B	1	60" HEATED COUNTERTOP DISPLAY MERCHANDISER	ALT 9B	FSEC	FSEC
79B	1	CORNER MOBILE UTILITY COUNTER	ALT 9B	FSEC	FSEC
80B	2	74" MOBILE UTILITY COUNTER	ALT 9B	FSEC	FSEC
81B	1	BEVERAGE COUNTER WITH DUMP SINK	ALT 9B	FSEC	FSEC
82A	1	DISPENSER WATER FILTER SYSTEM	ALT 9A	FSEC	DIV. 22
83A	1	COFFEE GRINDDER	ALT 9A	FSEC	FSEC
84A	1	COFFEE/TEA BREWER	ALT 9A	FSEC	FSEC
85A	1	COFFEE WATER FILTER SYSTEM	ALT 9A	FSEC	DIV. 22
86A	2	BLENDER	ALT 9A	FSEC	FSEC
87A	1	UNDERCOUNTER ICE MACHINE	ALT 9A	FSEC	FSEC
88A	1	ICE WATER FILTER SYSTEM	ALT 9A	FSEC	DIV. 22
89A	1	UNDERCOUNTER REFRIGERATOR	ALT 9A	FSEC	FSEC
90A	1	ESPRESSO CAPPUCCINO MACHINE	ALT 9A	FSEC	FSEC
91A	1	ESPRESSO WATER FILTER SYSTEM	ALT 9A	FSEC	DIV. 22
92A	2	SYRUP BOTTLE DISPLAY	ALT 9A	FSEC	FSEC
93A	2	CUP ORGANIZER	ALT 9A	FSEC	FSEC
94B	1	POS SYSTEM	ALT 9B	OWNER	OWNER
95-99		SPARE NUMBER			
100	1	PEDESTAL DUMP SINK	NEW	FSEC	DIV. 22
101	1	72" X 121" L-SHAPED SOILED DISHTABLE	NEW	FSEC	FSEC
102	1	DISPOSAL SYSTEM	NEW	FSEC	DIV. 22
103	1	PRE-RINSE WITH ADD-ON FAUCET	NEW	FSEC	FSEC
104	1	36" X 16" TUBULAR SHELF	NEW	FSEC	FSEC
105	1	24" X 16" TUBULAR SHELF	NEW	FSEC	FSEC
106	1	CONVEYOR TYPE DISHMACHINE	NEW	FSEC	FSEC
107	1	CONDENSATE HOOD	NEW	FSEC	FSEC
108	1	CONDENSATE FAN (NOT SHOWN)	NEW	DIV. 23	DIV. 23
109	1	72" X 8" FLOOR TROUGH	NEW	FSEC	DIV. 22
110	1	144" ROLLER CLEAN DISHTABLE	NEW	FSEC	FSEC
111	1	63" X 15" SOILED SORTING SHELF	NEW	FSEC	FSEC
112	1	135" 3-COMPARTMENT SINK	NEW	FSEC	FSEC
113	1	PRE-RINSE FAUCET WITH ADD-ON FAUCET	NEW	FSEC	DIV. 22
114	1	HOSE REEL ASSEMBLY	NEW	FSEC	DIV. 22
115	2	48" X 24" X 78" MOBILE DRYING RACK	NEW	FSEC	FSEC
116-117		SPARE NUMBER			
118	1	MOP SINK CABINET	NEW	FSEC	DIV. 22

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GRAND FORKS, ND 58203
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ICON ARCHITECTURAL GROUP
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MANDAN, ND 58554
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FARGO, NORTH DAKOTA 58108
(701) 280.0500 OFFICE

ELECTRICAL
CMTA
2201 12TH STREET NORTH, SUITE E
FARGO, NORTH DAKOTA 58102
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LOWRY ENGINEERING
1111 WESTRAC DR STE 108
FARGO, ND 58103
(701) 235.0199 OFFICE

FOODSERVICE
FOODSERVICE CONCEPT DESIGN
7900 INTERNATIONAL DRIVE
SUITE 300 -7043
BLOOMINGTON, MN 55425
(612) 325.1494 OFFICE

DRAWING HISTORY

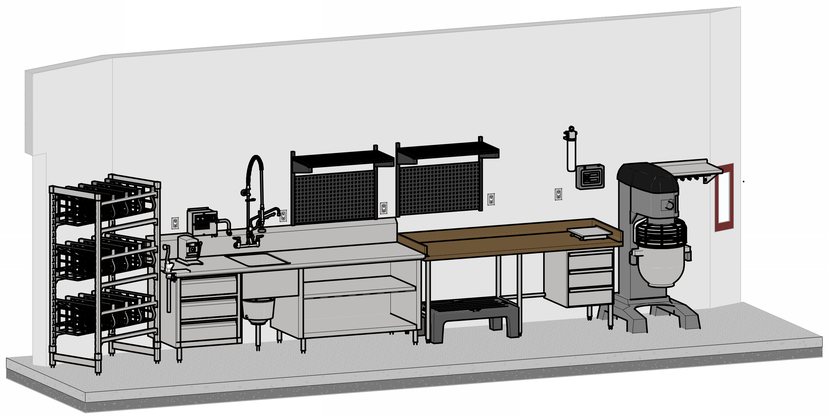
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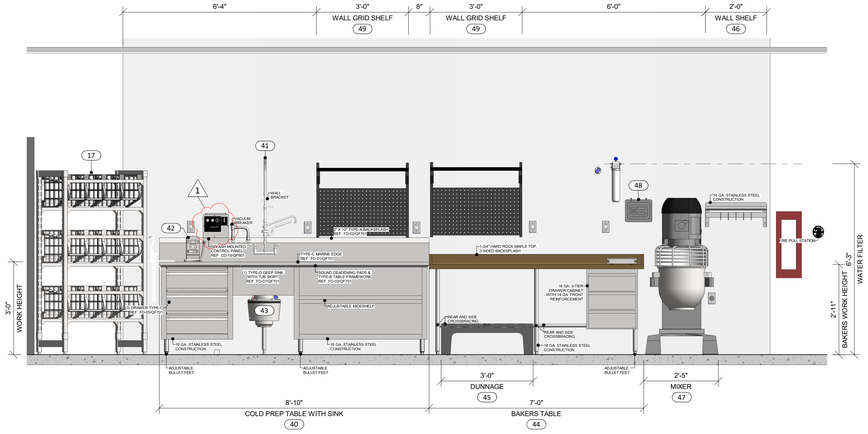
FOODSERVICE EQUIPMENT PLAN

SHEET
QF101

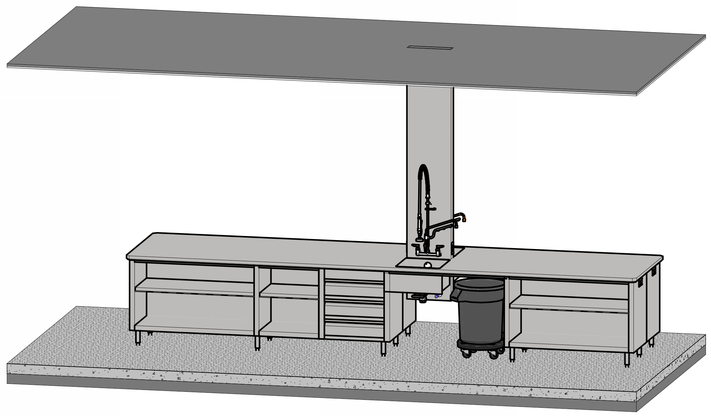
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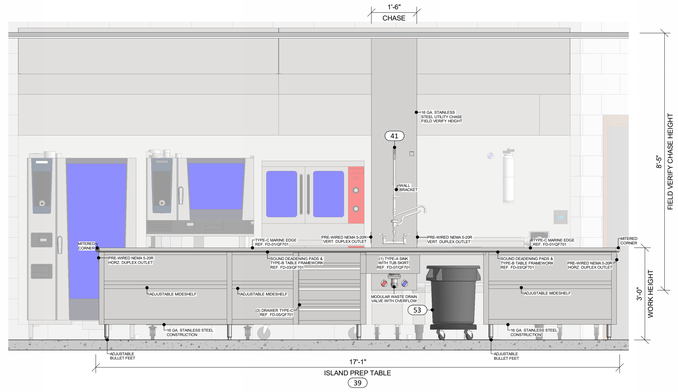
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NTS



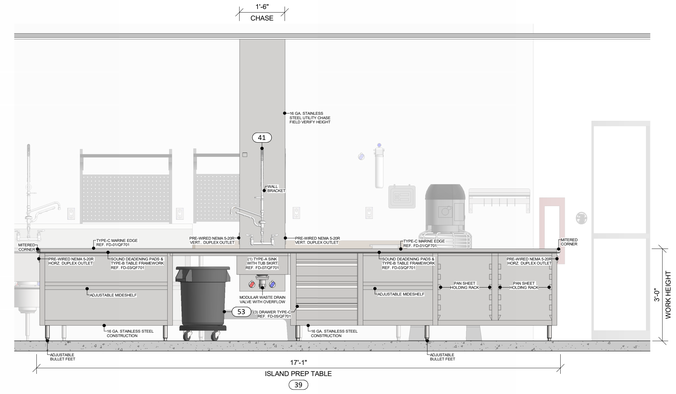
A PREP AREA ELEVATION
1/2" = 1'-0"



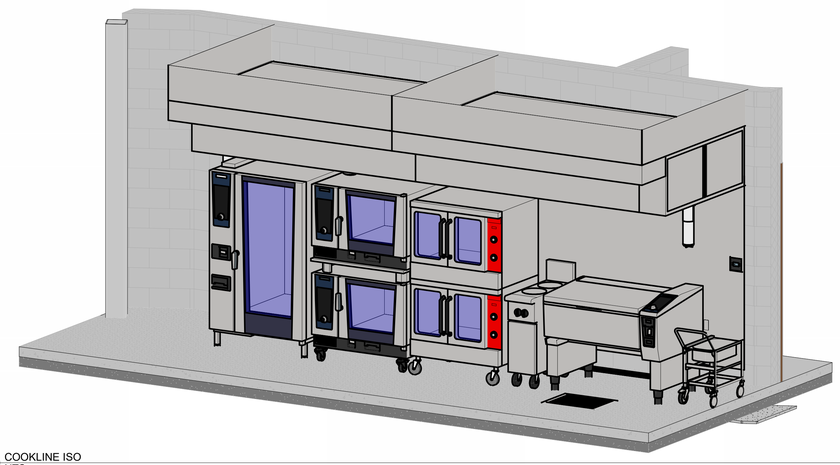
2 ISLAND PREP AREA - COLD PREP SIDE ISO
NTS



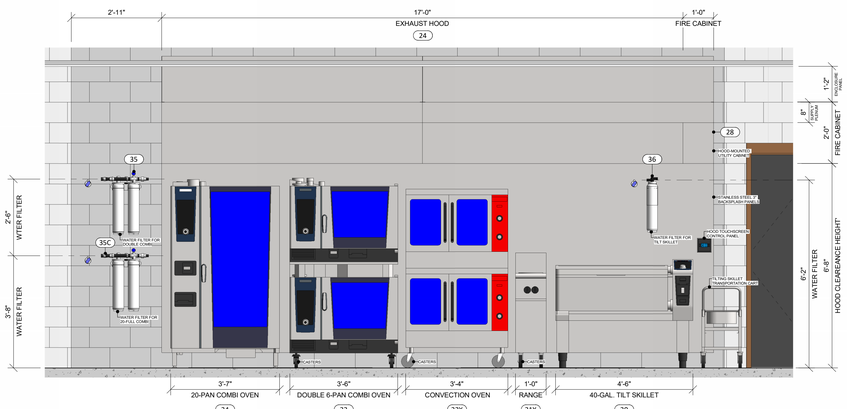
B ISLAND PREP AREA - COLD PREP SIDE ELEVATION
1/2" = 1'-0"



C ISLAND PREP AREA - COOKLINE SIDE ELEVATION
1/2" = 1'-0"



3 COOKLINE ISO
NTS



D COOKLINE ELEVATION
1/2" = 1'-0"

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STRUCTURAL

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ELECTRICAL

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FOODSERVICE

FOODSERVICE CONCEPT DESIGN
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DRAWING HISTORY

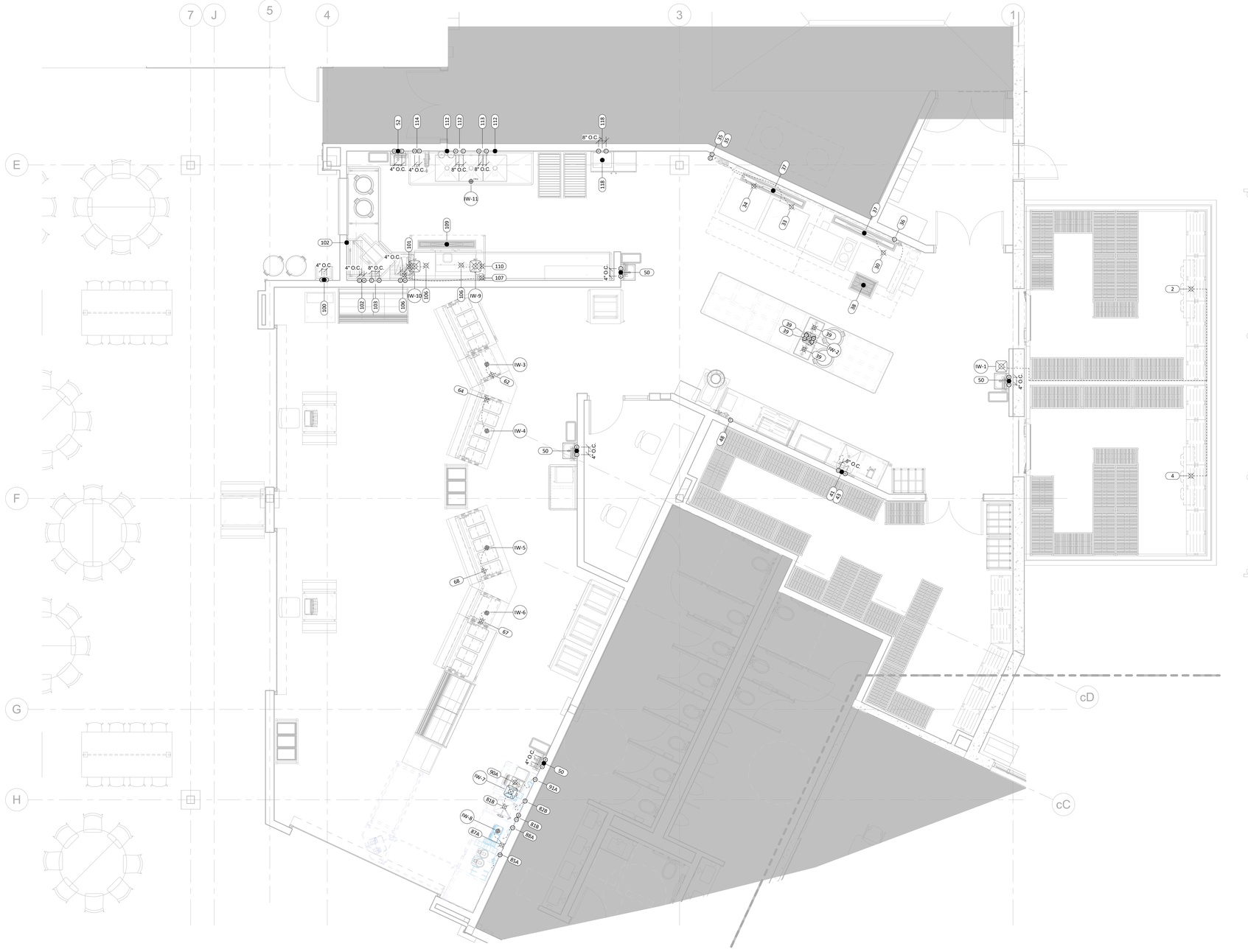
NO.	DESCRIPTION	DATE
	CONSTRUCTUON DOCUMENTS	3/10/26
1	Addendum #1	3/17/26

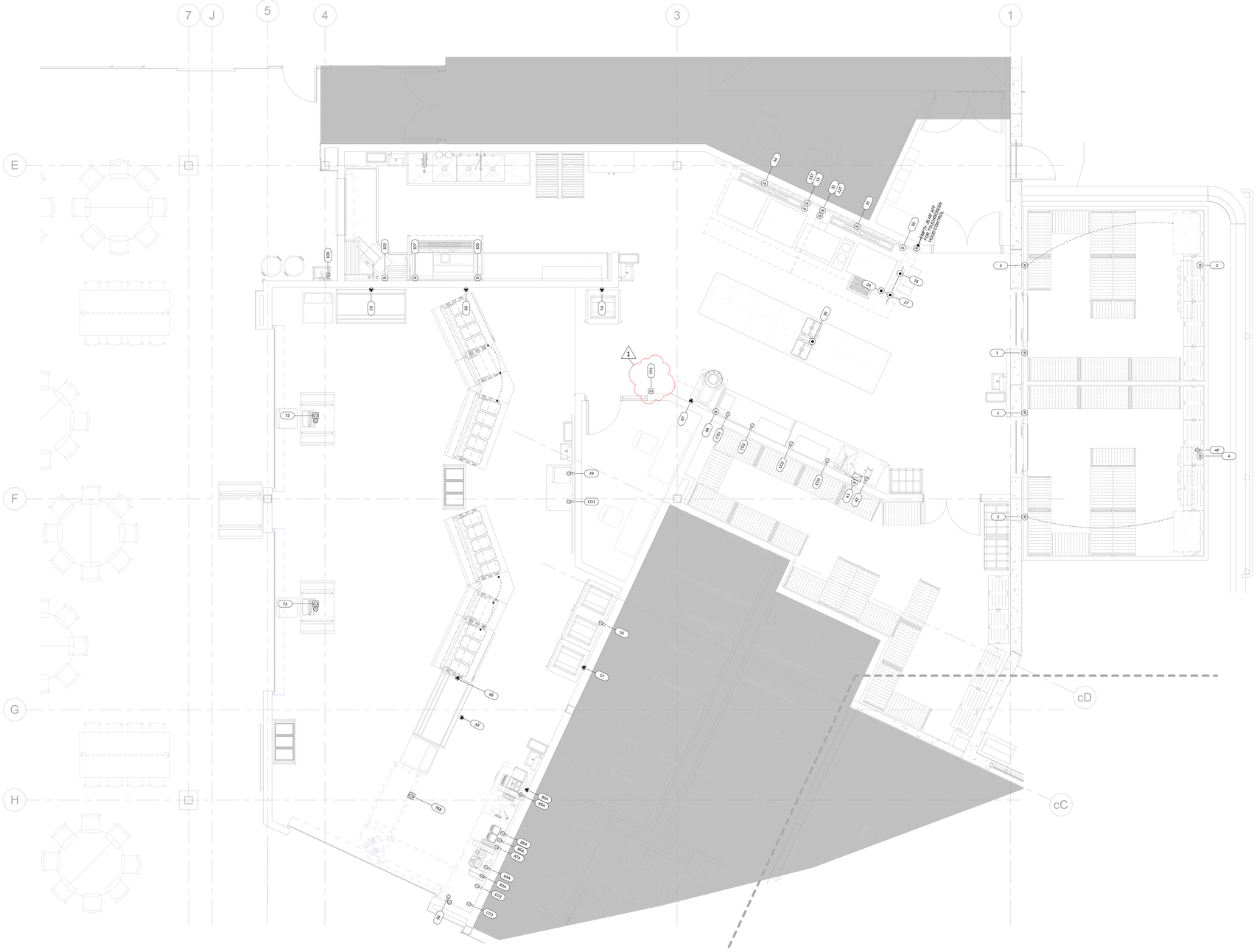
DRAWN BY: MJH JN: 24-028

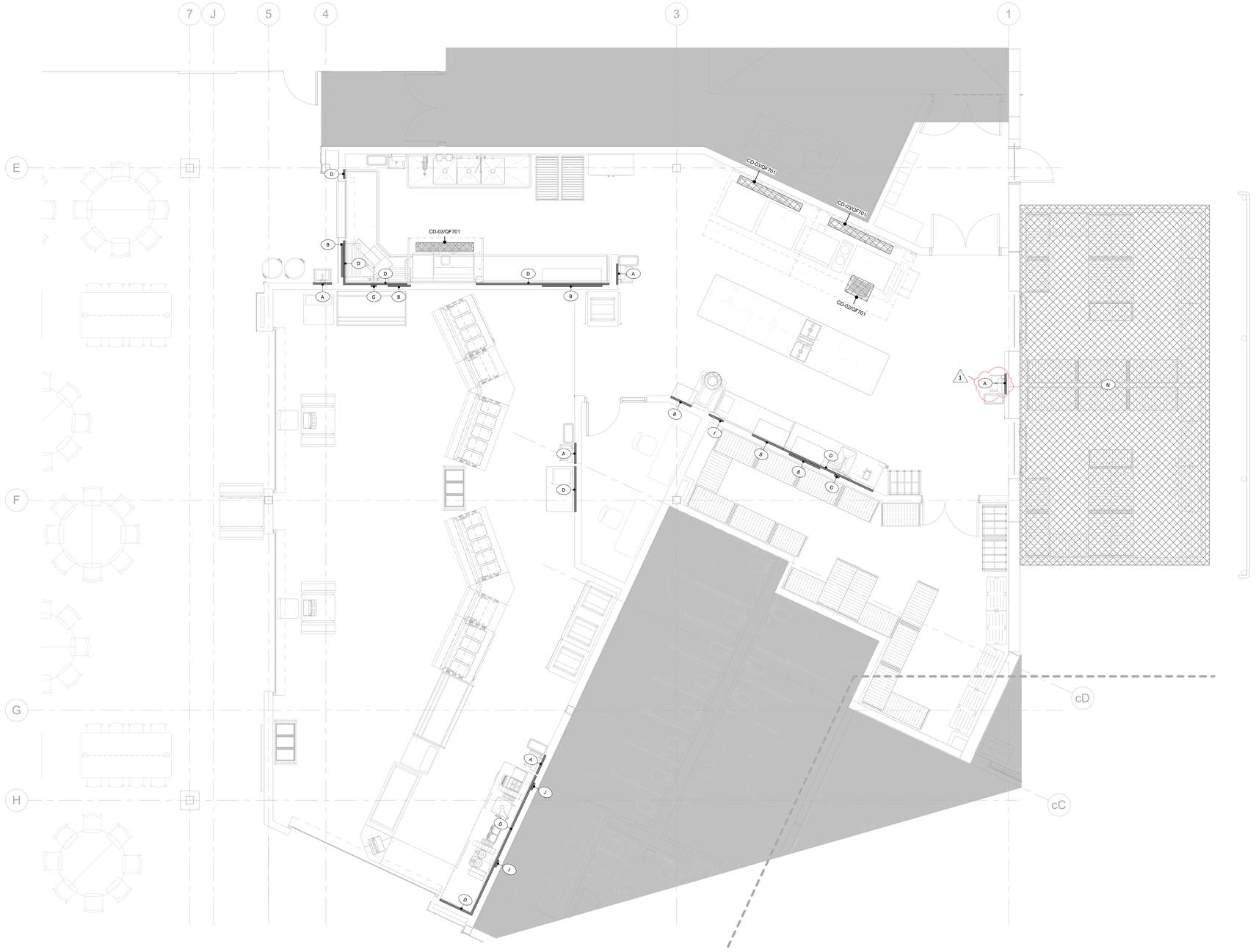
FOODSERVICE EQUIPMENT ELEVATIONS

SHEET
QF201

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IW-1
IW-2
IW-3
IW-4
IW-5
IW-6
IW-9
IW-10
IW-11
8" O.C.
4" O.C.
50
4" O.C.
IW-1
90A
91A
81B
82B
81A
82A
85A
IW-9
87A
88A
IW-2
39
IW-3
62
64
IW-4
50
4" O.C.
IW-5
68
67
IW-6
45
41
42
8" O.C.
4" O.C.
50
IW-1
90A
91A
81B
82B
81A
82A
85A
IW-9
87A
88A
IW-2
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30A
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87A
84A
83A
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CO1
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CO1
CO1
CO1



1 FOODSERVICE SPECIAL CONDITIONS PLAN
1/4" = 1'-0"

SPECIAL CONDITIONS NOTES

1. GC SHALL FURNISH AND INSTALL WALL BACKING WHERE REINFORCEMENT IS REQUIRED UNLESS WALL IS COMPOSED OF MASONRY BLOCK. LENGTHS OF WALL BACKING SHOWN ON FOODSERVICE EQUIPMENT PLANS ARE NOMINAL AND SHALL EXTEND TO THE NEXT STUD IN EACH DIRECTION. GC TO CONFIRM WITH OWNER FOR ANY ADDITIONAL WALL MOUNTED ITEMS THAT ARE NOT SHOWN.
2. GC SHALL FURNISH AND INSTALL REINFORCEMENT ABOVE THE FINISHED CEILING FOR HANGING FSEC FURNISHED EQUIPMENT INCLUDING KITCHEN EXHAUST HOODS. GC SHALL COORDINATE THE EXACT SIZE AND REQUIREMENTS WITH FSEC AND MANUFACTURERS SHOP DRAWINGS.
3. THE REMOTE EQUIPMENT LOCATION (S) ON FOODSERVICE EQUIPMENT PLANS ARE APPROXIMATE AND SHOULD BE VERIFIED WITH ARCHITECT AND ENGINEER.
4. GC SHALL FURNISH AND INSTALL REQUIRED CONCRETE PADS, AND SLEEVE AND SEAL REQUIRED BUILDING ENVELOPE PENETRATIONS.
5. FSEC SHALL FURNISH AND INSTALL REFRIGERATION LINES BETWEEN REMOTE CONDENSING UNITS AND SPECIFIED FOODSERVICE REFRIGERATION EQUIPMENT.

WALL BACKING NOTES

NOTE ID	DESCRIPTION
A	ADEQUATE WALL BACKING FROM 26" AFF TO 65" AFF FOR HAND SINK, SOAP AND PAPER TOWEL DISPENSER (BY OTHERS). SEE DETAILS CD-11.
B	ADEQUATE WALL BACKING FROM 42" AFF TO 72" AFF FOR WALL MOUNTED SHELVING UNITS. SEE DETAILS FD-10.
D	ADEQUATE WALL BACKING FROM 36" AFF TO 48" AFF FOR TABLE BACKSPLASH WALL CLIPS. SEE DETAILS FD-02.
F	ADEQUATE WALL BACKING FROM 42" AFF TO 54" AFF FOR MOP SINK SERVICE FAUCET WALL BRACKET.
G	ADEQUATE WALL BACKING FROM 48" AFF TO 66" AFF FOR PRE-RINSE WALL BRACKET. SEE DETAILS CD-11.
J	ADEQUATE WALL BACKING FROM 66" AFF TO 90" AFF FOR WATER FILTER.
N	WALK-IN AREA TO BE RECESSED 8" AND ENSURE THAT THE FLOOR IS TRANSIT LEVEL (1/4" VARIATION OVER 10'-0" IN ANY DIRECTION), CLEAN AND FREE OF DEBRIS. SEE DETAIL CD-07.

SPECIAL CONDTIONS LEGEND

SYMB	DESCRIPTION
	WALL BACKING
	RECESSED FLOOR (SEE DETAIL)
	OMIT CEILING

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DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRUCTION DOCUMENTS	3/10/26
1	Addendum #1	3/17/26

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FOODSERVICE SPECIAL CONDITIONS PLAN

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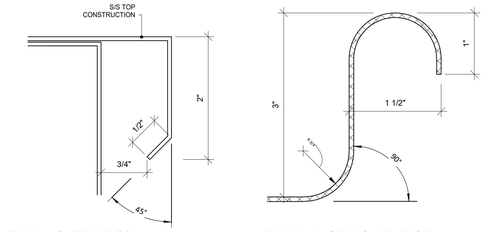
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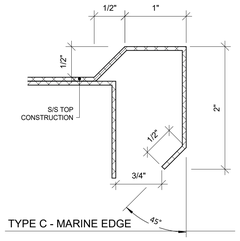
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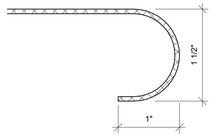


TYPE A - SAFTEY EDGE

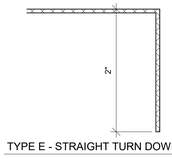
TYPE B - RAISED ROLLED EDGE



TYPE C - MARINE EDGE



TYPE D - BULL-NOSE EDGE

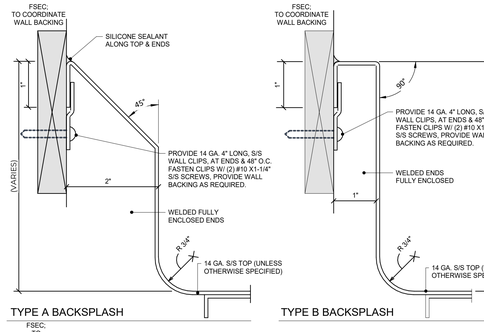


TYPE E - STRAIGHT TURN DOWN

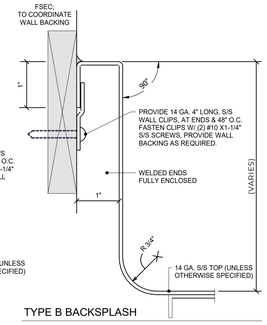


TYPE F - ANGLE EDGE

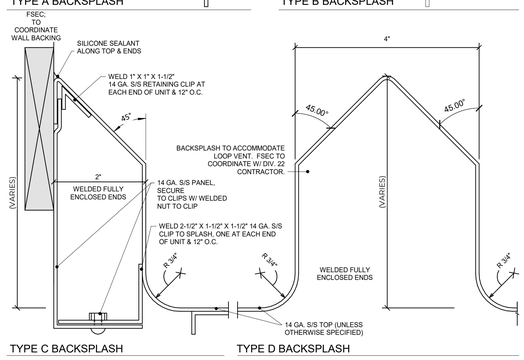
1 FD-01- TABLE EDGES
NTS



TYPE A BACKSPLASH



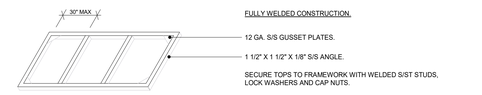
TYPE B BACKSPLASH



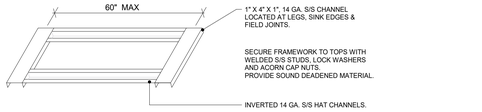
TYPE C BACKSPLASH

TYPE D BACKSPLASH

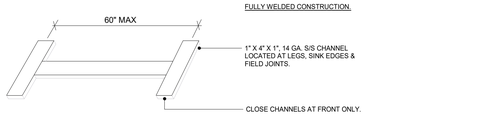
2 FD-02 - BACKSPLASHES
NTS



TYPE A - TABLE FRAMEWORK

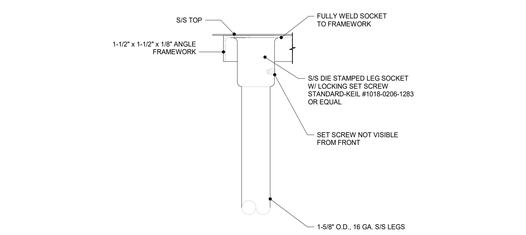


TYPE B - ALTERNATE TABLE FRAMEWORK

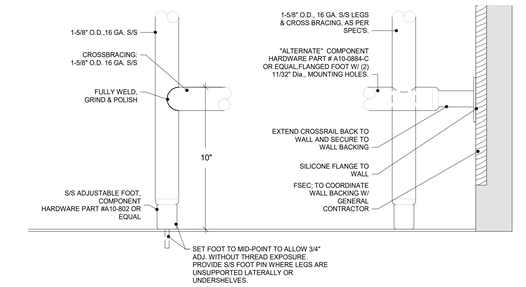


TYPE C - DRAINBOARD FRAMEWORK

3 FD-03 - FRAMEWORK
NTS



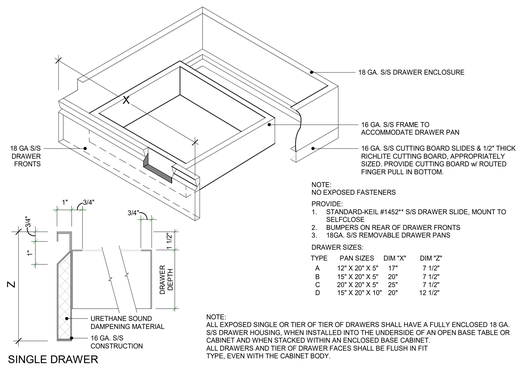
TOP OF LEG



TYPE A - LEG

TYPE B - LEG

4 FD-04 - TABLE AND SINK LEGS
NTS



NOTE:
NO EXPOSED FASTENERS

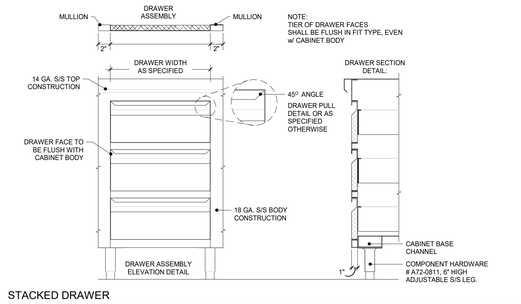
PROVIDE:
1. STANDARD-KEIL #1452** S/S DRAWER SLIDE, MOUNT TO SELFCLOSE
2. BUMPERS ON REAR OF DRAWER FRONTS
3. 18GA. S/S REMOVABLE DRAWER PANS

DRAWER SIZES:

TYPE	PAN SIZES	DIM "X"	DIM "Z"
A	12" X 20" X 5"	17"	7 1/2"
B	15" X 20" X 5"	20"	7 1/2"
C	20" X 20" X 5"	25"	7 1/2"
D	15" X 20" X 10"	20"	12 1/2"

NOTE:
ALL EXPOSED SINGLE OR TIER OF TIER OF DRAWERS SHALL HAVE A FULLY ENCLOSED 18 GA. S/S DRAWER HOUSING, WHEN INSTALLED INTO THE UNDERSIDE OF AN OPEN BASE TABLE OR CABINET AND WHEN STACKED WITHIN AN ENCLOSED BASE CABINET. ALL DRAWERS AND TIER OF DRAWER FACES SHALL BE FLUSH IN FIT TYPE, EVEN WITH THE CABINET BODY.

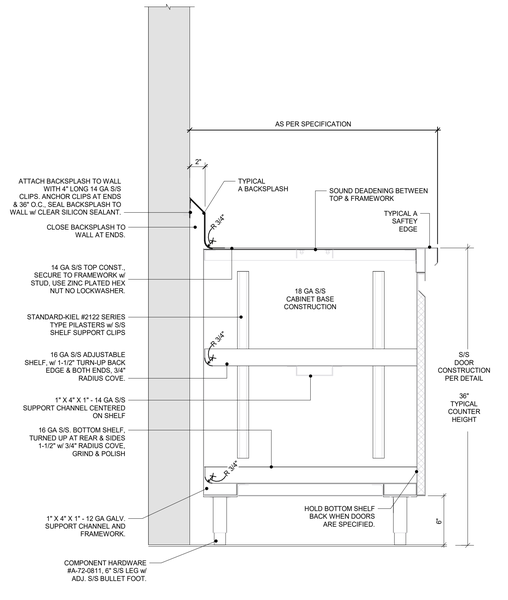
SINGLE DRAWER



NOTE:
TIER OF DRAWER FACES SHALL BE FLUSH IN FIT TYPE, EVEN w/ CABINET BODY

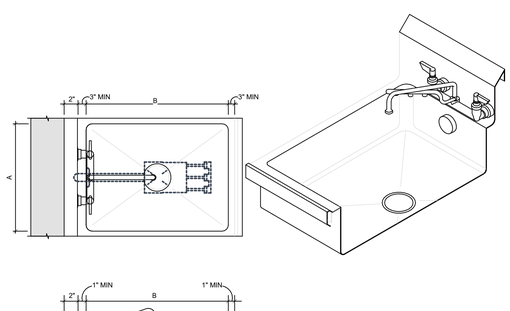
STACKED DRAWER

5 FD-05 - DRAWERS
NTS



6 FD-06 - CABINET BASE
NTS

1



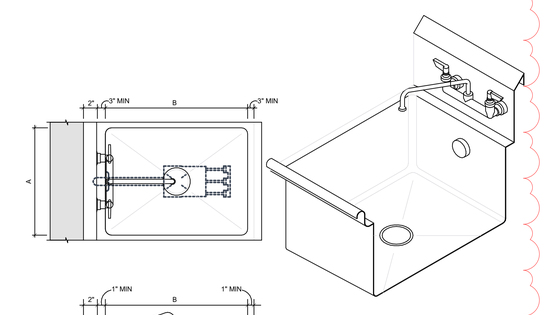
SINK SIZES
SEE ELEVATION KEYNOTES

	A	x	B	x	C
TYPE A	19.5"	X	26"	X	12"
TYPE B*	19.5"	X	26"	X	8"
TYPE C	18"	X	24"	X	12"
TYPE D*	18"	X	24"	X	8"
TYPE E	16"	X	20"	X	12"
TYPE F*	16"	X	20"	X	8"

KEY - * FOR DISPOSER

NOTES
1.) FULLY WELD SINK INTO TOP & DRAINBOARDS, GRIND & POLISH SINK TO BECOME AN INTEGRAL PART OF THE S/S TOP.
2.) ALL VERTICAL AND HORIZONTAL SINK CORNERS SHALL BE COVED WITH A 3/4" RADIUS, ALL WELDED CONSTRUCTION.
3) SEAT LEVER DRAINS IN DIE-STAMPED DEPRESSION, PITCH SINK TO DRAIN OPENING.
4.) FSEC TO PROVIDE LEVER WASTE DRAINS LOOSE, FOR INSTALLATION BY DIVISION 22.
5.) FSEC TO PROVIDE FAUCETS & ASSYS LOOSE, FOR INSTALLATION BY DIVISION 22.
6.) MULTIPLE COMPARTMENTS SINKS SHALL BE CONSTRUCTED FROM ONE LARGE SINK, PROVIDE WELDED-IN DOUBLE WALL PARTITIONS TO FORM FULLY COVED CORNERS IN EACH SINK COMPARTMENT FULLY WELD FRONT FLUSH WITH NO INDENTATIONS.

7 FD-07 - PREP SINK
NTS



SINK SIZES - SEE ELEVATION KEYNOTES

	A	x	B	x	C
TYPE A	20"	X	20"	X	8"
TYPE B	25"	X	28"	X	12"
TYPE C	25"	X	28"	X	14"
TYPE D	24"	X	24"	X	12"
TYPE E	24"	X	24"	X	14"
TYPE F	20"	X	24"	X	12"
TYPE G	20"	X	24"	X	14"
TYPE H	30"	X	28"	X	12"
TYPE J	30"	X	28"	X	14"
TYPE K	18"	X	24"	X	12"
TYPE L	18"	X	24"	X	14"
TYPE M	16"	X	18"	X	12"
TYPE N	16"	X	18"	X	14"

NOTES
1.) FULLY WELD SINK INTO TOP & DRAINBOARDS, GRIND & POLISH SINK TO BECOME AN INTEGRAL PART OF THE S/S TOP.
2.) ALL VERTICAL AND HORIZONTAL SINK CORNERS SHALL BE COVED WITH A 3/4" RADIUS, ALL WELDED CONSTRUCTION.
3) SEAT LEVER DRAINS IN DIE-STAMPED DEPRESSION, PITCH SINK TO DRAIN OPENING.
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5.) FSEC TO PROVIDE FAUCETS & ASSYS LOOSE, FOR INSTALLATION BY DIVISION 22.
6.) MULTIPLE COMPARTMENTS SINKS SHALL BE CONSTRUCTED FROM ONE LARGE SINK, PROVIDE WELDED-IN DOUBLE WALL PARTITIONS TO FORM FULLY COVED CORNERS IN EACH SINK COMPARTMENT FULLY WELD FRONT FLUSH WITH NO INDENTATIONS.

8 FD-08 - WAREWASHING SINK
12" = 1'-0"

DRAWING HISTORY

NO.	DESCRIPTION	DATE
	CONSTRCTUON DOCUMENTS	3/10/26
1.	Addendum #1	3/17/26

DRAWN BY: MJH JN: 24-028

FOODSERVICE EQUIPMENT ITEM DETAILS

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