

ADDENDUM NO. ONE (1)

project Woodrow Wilson Keeble

Memorial Health Care Center USP Compliance

Sisseton, SD

- *dsgw project* # 022003.00
 - ihs project # HHSI102201800141
 - date September 10, 2024
 - from Ryan Turner DSGW Architecture
 - to All planholders for above project

The following addendum shall become part of the construction documents for the construction of the above referenced project.

This addendum supersedes and supplements all previous reference to similar items.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am duly a Licensed Architect under the laws of the State of South Dakota.

Signature Registration # 14817 Date September 10, 2024

specifications

SECTION DESCRIPTION

00 01 10 TABLE OF CONTENTS

1. OMIT this section as originally issued and REPLACE with REVISED Section 00 01 10 as included with this Addendum #1.

00 01 15 SCHEDULE OF DRAWINGS

1. OMIT this section as originally issued and REPLACE with REVISED Section 00 01 15 as included with this Addendum #1.

04 20 00 UNIT MASONRY

1. ADD this section as included with this Addendum #1.

04 72 00 CAST STONE MASONRY

1. ADD this section as included with this Addendum # 1.

06 41 00 ARCHITECTURAL WOOD CASEWORK

1. OMIT this section as originally issued and REPLACE with REVISED Section 06 41 00 as included with this Addendum #1.

----- DOOR/HARDWARE INDEX

1. OMIT this index as originally issued following spec. section 08 71 00 – Door Hardware and REPLACE with the REVISED Door/Hardware Index as included with this Addendum #1.



08 80 00 GLAZING

1. OMIT this section as originally issued and REPLACE with REVISED Section 08 80 00 as included with this Addendum #1.

09 21 16 GYPSUM BOARD ASSEMBLIES

1. OMIT this section as originally issued and REPLACE with REVISED Section 09 21 16 as included with this Addendum #1.

09 65 00 RESILIENT FLOORING

1. OMIT this section as originally issued and REPLACE with REVISED Section 09 65 00 as included with this Addendum #1.

10 22 13 WIRE MESH PARTITIONS

1. ADD this section as included with this Addendum #1.

10 28 00 TOILET ACCESSORIES

1. OMIT this section as originally issued and REPLACE with REVISED Section 10 28 00 as included with this Addendum #1.

10 51 00 LOCKERS

- 1. OMIT this section as originally issued and REPLACE with REVISED Section 10 51 00 as included with this Addendum #1.
- drawings SECTION DESCRIPTION
 - G0.1 TITLE SHEET
 - 1. REISSUED.
 - G1.1 LIFE SAFETY PLAN & SUMMARY
 - 1. RENUMBERED & REISSUED.
 - A.1.1 DEMO PLAN PHASE 1 1. REISSUED.
 - I. KEISSOED.
 - A1.2 DEMO PLAN PHASE 1B
 - 1. ADDED sheet.
 - A1.3 DEMO PLAN PHASE 2
 - 1. REISSUED.
 - A2.1 FLOOR PLAN PHASE 1
 - 1. REISSUED.
 - A2.2 FLOOR PLAN PHASE 1B
 - 1. REISSUED.

A2.3 FLOOR PLAN – PHASE 2

1. ADDED sheet.



RCP – PHASE 1 AND PHASE 1B A3.1 1. REISSUED.

- A3.2 **RCP – PHASE 2**
 - 1. ADDED sheet.

A4.1 SCHEDULES AND TYPES

1. REISSUED.

A7.1 **INTERIOR ELEVATIONS**

1. REISSUED.

A8.1 DETAILS

1. REISSUED.

mechanical / EDI-Dolejs's Mechanical/Electrical Addendum 1, dated 09-10-24, is to be included with this addendum as attached (64 pages) electrical

consultant

Spec. Section 00 01 10 – Table of Contents – Revised (3 pages) enclosures

- Spec. Section 00 01 15 Schedule of Drawings Revised (2 pages) _
 - Spec. Section 04 20 00 Unit Masonry (7 pages)
 - Spec. Section 04 72 00 Cast Stone Masonry (3 pages)
- Spec. Section 06 41 00 Architectural Wood Casework Revised (5 pages)
- Door/Hardware Index Revised (1 page)
- Spec. Section 08 80 00 Glazing Revised (5 pages)
- Spec. Section 09 21 16 Gypsum Board Assemblies Revised (7 pages)
- Spec. Section 09 65 00 Resilient Flooring Revised (4 pages)
- Spec. Section 10 22 13 Wire Mesh Partitions (2 pages)
- Spec. Section 10 28 00 Toilet Accessories Revised (3 pages)
- Spec. Section 10 51 00 Lockers Revised (2 pages)
- Drawing Sheets G0.1, G1.1, A1.1, A1.2, A1.3, A2.1, A2.2, A2.3, A3.1, A3.2, A4.1, A7.1, A8.1 (24x36)(13 pages)
 - EDI-Dolejs's M/E Addendum 1 (30 8.5x11; 34 24x36)(64 pages)

This addendum shall become part of this bid. The bidder shall insert the addendum number in the space where indicated on the proposal form. Failure to comply may result in the bid being rejected.

END OF ADDENDUM NO. ONE (1)

SECTION 00 01 10

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SECTION 00 01 15

SCHEDULE OF DRAWINGS - REVISED

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SECTION 04 20 00 UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete Block.
 - 1. Split face CMU.
- B. Mortar and Grout.
- C. Reinforcement and Anchorage.
- D. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 03 20 00 Concrete Reinforcing: Reinforcing steel for grouted masonry.
- B. Section 03 30 00 Cast-In-Place Concrete: Concrete for bond beams, grouted cores, etc.
- C. Section 05 50 00 Structural Steel: Loose steel lintels. Match existing systems as required.
- D. Section 07 84 00 Firestopping: Firestopping at penetrations of fire-rated masonry and at top of fire-rated walls.
- E. Section 07 90 05 Joint Sealers: Backing rod and sealant at control and expansion joints.
- F. Section 04

1.03 REFERENCE STANDARDS

- A. ASTM A82/A82M Standard Specification for Steel Wire, Plain, for Concrete Reinforcement; 2007.
- B. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- C. ASTM C62 Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale); 2012.
- D. ASTM C90 Standard Specification for Loadbearing Concrete Masonry Units; 2012.
- E. ASTM C129 Standard Specification for Nonloadbearing Concrete Masonry Units; 2011.
- F. ASTM C144 Standard Specification for Aggregate for Masonry Mortar; 2011.
- G. ASTM C150/C150M Standard Specification for Portland Cement; 2012.
- H. ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes; 2006 (Reapproved 2011).
- I. ASTM C270 Standard Specification for Mortar for Unit Masonry; 2012.
- J. ASTM C476 Standard Specification for Grout for Masonry; 2010.
- K. ASTM C979/C979M Standard Specification for Pigments for Integrally Colored Concrete; 2010.
- L. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2009.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, and mortar.
- C. Firestopping System: Where fire rated construction is shown on drawings, this contractor shall be responsible for firestopping the terminations between materials of this section and adjacent materials. Submit proposed firestopping system as per materials listed in Section 07 84 00.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.
- B. Handle and store ceramic glazed masonry units in protective cartons or trays. Do not remove from protective packaging until ready for installation.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.
- B. Cold Weather Requirements: Comply with recommendations of IMIAWC (CW).
- C. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.
- D. Hot Weather Requirements: Comply with IMIAWC (HW).

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards and as follows: Design intent is to match that of existing condition; split face CMU.
 - 1. Size: Standard units with nominal face dimensions of 16 x 8 inches (400 x 200 mm) and nominal depths as indicated on the drawings for specific locations.
 - 2. Special Shapes: Provide non-standard blocks configured for corners, lintels, headers, and control joint edges.
 - 3. Load-Bearing and Non-Load Bearing Units: ASTM C 90, normal weight, 2,500 psi.
 - a. Hollow block, as indicated.
 - b. Type I Moisture-controlled; normal weight.
 - 4. Non-Loadbearing Units: ASTM C129.
 - a. Hollow block, as indicated.
 - b. normal weight, 2,500 psi.

2.02 MORTAR AND GROUT MATERIALS

- A. Portland Cement: ASTM C150, Type I; color as required to produce approved color sample.
 - 1. Hydrated Lime: ASTM C207, Type S.
 - 2. Mortar Aggregate: ASTM C144.
- B. Pigments for Colored Mortar: Iron or chromium oxides with demonstrated stability and colorfastness. Mortar colors shall be as manufactured by one of the following or approved equal:
 - 1. Solomon Colors
 - 2. Prism Pigments
 - 3. Davis Colors
- C. Water: Clean and potable.
- D. Pre-packaged mortar conforming to the above requirements, as manufactured by Spec-Mix is acceptable.

2.03 REINFORCEMENT AND ANCHORAGE

- A. Reinforcing Steel: Type specified in Section 03 20 00; size as indicated on drawings; uncoated finish.
- B. Single Wythe Joint Reinforcement: Truss type; ASTM A 82/A 82M steel wire, hot dip galvanized after fabrication to ASTM A 153/A 153M, Class B; 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.
 - 1. Manufacturers:
 - a. Dur-O-Wal; Product Truss Type: www.dur-o-wal.com.

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- b. Hohmann & Barnard, Inc; Product #120 Truss-Mesh: www.h-b.com.
- c. Masonry Reinforcing Corporation of America; Product Truss Type Series 300 2-Wire System: www.wirebond.com.
- d. Substitutions: See Section 01 60 00 Product Requirements.
- C. Adjustable Multiple Wythe Joint Reinforcement: Truss type with adjustable ties or tabs spaced at 16 in (406 mm) on center and fabricated with moisture drip; ASTM A 82/A 82M steel wire, hot dip galvanized after fabrication to ASTM A 153/153M, Class B; 0.1875 inch (4.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods and adjustable components of 0.1875 inch (4.8 mm) wire; width of components as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage from each masonry face.
 - 1. Vertical adjustment: Not less than 2 inches (50 mm).
 - 2. Seismic Feature: Provide lip, hook, or clip on extended leg of wall ties to engage or enclose not less than one continuous horizontal joint reinforcement wire of 0.1483 inch (3.8 mm) diameter.
 - 3. Manufacturers:
 - a. Dur-O-Wal; Product D/A 370 Dur-O-Eye with D/A 360 S Seismic Ladur-Eye and continuous wire in outer wythe: www.dur-o-wal.com.
 - b. Hohmann & Barnard, Inc; Product #170 Truss Type Lox All, with Seismiclip Interlock System and continuous wire in outer wythe: www.h-b.com.
 - c. Masonry Reinforcing Corporation of America; Product Truss Type with Ties Series 900 Cavity Hook & Eye with Wire Bond clip and continuous wire in outer wythe: www.wirebond.com.
 - d. Substitutions: See Section 01 60 00 Product Requirements.
- D. Provide special corner and partition tie truss type joint reinforcing at all corners and wall intersections.

2.04 ACCESSORIES

- A. Joint Filler: Closed cell Neoprene; conforming to ASTM D1056, Grade 2A1, with adhesive backing. Provide thickness as required to close the gap to prevent the passage of air and sound.
 - 1. Manufacturers:
 - a. Dur-O-Wal; Product DA2010 Rapid Soft Joint: www.dur-o-wal.com.
 - b. Hohmann & Barnard, Inc (including Dur -O-Wal brand); Product NS Closed Cell Neoprene Sponge: www.h-b.com.
 - c. Substitutions: See Section 01 60 00 Product Requirements.
 - d. Architect will consider alternate materials for filling gaps at tops of walls and other moving joints in masonry construction, submit proposed system for approval. NOTE: Contractors wishing to use air as the compressible filler shall submit a sample of the air they propose to use along with the system they intend to employ to keep the air contained within the joint.
- B. Building Paper: ASTM D226, Type I ("No.15") asphalt felt.
- C. Weep/Cavity Vents: Polyester mesh.
 - 1. Color: Match mortar color.
 - 2. Manufacturer: Mortar Net Weep Vents.
- D. Louvered Weep Vents: Injection molded flexible PVC with downward facing louvers and compressible flanges at the sides. Weep vent shall have a rectangular closure strip at the top to prevent mortar droppings from clogging the openings.
 - 1. Hohmann & Barnard, Inc. #343 Louvered Weep Hole.
- E. Cellular Weep Vents: Polypropylene conforming to ASTM D2240, D790B, D638 & D1238B, 3/8 inch wide by 3-1/2 inch deep by height of masonry unit, honeycomb configuration in color as selected by Architect.
 - 1. Hohmann & Barnard, Inc. #QV Quadro Vent
 - 2. Dur-O-Wal DA1006 Cell Vents

- F. Cavity Vent System: High impact polystyrene manufactured into a rigid 3/16 inch intermittent corrugated pattern, 6 inches wide by 25 foot rolls to create 4 vent holes every 9-1/2 inches on center. Cavity vent shall be installed in the bed joint above masonry flashings.
 1. Masonry Technology Inc. Cavity Vent CV 5010.
- G. Cavity Mortar Diverter: Semi-rigid polyethylene or polyester mesh blocks, sized to fill bottom of wall cavity and suspend mortar droppings above weep/cavity vents to allow cavity drainage. Provide system manufactured by Mortar Net.
- H. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.
- I. Sealer for Burnished Concrete Masonry Units shall be a blend of 100% methyl methacrylate polymers to seal and protect the blocks surface. Sealer shall be Bright Seal as manufactured by TK Products or approved equal.

2.05 MORTAR AND GROUT MIXES

- A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
 - 1. Masonry below grade and in contact with earth: Type M.
 - 2. All load bearing above grade masonry: Type S.
 - 3. Exterior, non-loadbearing masonry: Type N.
 - 4. Interior, non-load bearing masonry: Type N.
- B. Colored Mortar: Proportion selected pigments and other ingredients to match Architect's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.
- C. Grout: ASTM C476. Consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches (50 mm) or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches (50 mm).
- D. Mixing: Use mechanical batch mixer and comply with referenced standards.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
- C. Install work to match that of existing conditions/systems as required.

3.03 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
 - 1. Bond: Running.
 - 2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
 - 3. Mortar Joints: Concave, except for walls to receive waterproofing, where fluid applied air/vapor retarder is installed, or where a base of another material will be applied to the wall, which shall be flush cut.
- D. Brick Units:
 - 1. Bond: Running.
 - 2. Coursing: Three units and Three mortar joints to equal 8 inches (200 mm).
 - 3. Mortar Joints: Concave.

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3.04 PLACING AND BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Remove excess mortar and mortar smears as work progresses.
- E. Interlock intersections and external corners.
- F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- H. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled, or where waterproofing is to be applied.
- I. Isolate masonry partitions from vertical structural framing members with a control joint as indicated.
- J. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler and sealant as specified in Section 07 90 05 each side of partition.
- K. Firestop all rated walls at top as sides where masonry abuts another material as per Section 07 84 00.

3.05 WEEPS/CAVITY VENTS

- A. Brick Veneer Weeping System: Install weep/cavity vents in veneer and cavity walls at 32 inches on center horizontally above through-wall flashing.
- B. Block Veneer Weeping System: Install cavity weep venting system continuously at the base of the wall cavity and at all other flashing locations, just above the through wall flashing, and prior to the installation of the mortar diverter. Weep system provides weeping through premanufactured holes in the corrugated polypropylene material. Install in accordance with manufacturer's instructions with weeps projecting beyond the wall surface. Weep system projecting beyond the wall surface shall be scored with a utility knife and broken off flush with the face of the wall.
- C. Cavity Wall Venting: Provide venting for cavity walls at the upper most mortar joint not covered by coping flashing. Provide weep/vents 32 inches on center. Install in the head joint of brick constructions and at the top of the head joint in block construction.
- D. Install cavity mortar diverter at base of cavity and at other flashing locations as recommended by manufacturer to prevent mortar droppings from blocking weep/cavity vents.

3.06 CAVITY MORTAR CONTROL

- A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.
- B. Special precautions must be taken to achieve smooth faces on the inside of the cavity space and to ensure that the bottom of the cavity is clean and free of mortar droppings. Use a smooth mortar bed for the exterior wythe and bevel the mortar joint away from the cavity so that a smooth upper surface inclined down toward the cavity results. Trowel flat and smooth any mortar fins on the cavity face of either width which may result. Use temporary wood, metal or fiber strips laid on the continuous wall reinforcing and carefully lift them out as the work progresses before the next layer of reinforcement is placed.
- C. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.

3.07 REINFORCEMENT AND ANCHORAGE - GENERAL

- A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches (400 mm) on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches (150 mm).
- E. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 16 inches horizontally and 16 inches (400 mm) vertically.

3.08 REINFORCEMENT AND ANCHORAGE - SINGLE WYTHE MASONRY

- A. Install horizontal joint reinforcement 16 inches (400 mm) on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
- C. Lap joint reinforcement ends minimum 6 inches (150 mm).

3.09 LINTELS

- A. Install loose steel lintels over openings.
- B. Install reinforced unit masonry lintels over openings where steel or precast concrete lintels are not scheduled.

3.10 GROUTED COMPONENTS

- A. Reinforce bond beams with 2, No. 5 (16 mm) bars, 1 inch (25 mm) from bottom web.
- B. Lap splices minimum 24 bar diameters.
- C. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch (13 mm) of dimensioned position.
- D. Place and consolidate grout fill without displacing reinforcing.
- E. At bearing locations, fill masonry cores with grout for a minimum 12 inches (300 mm) either side of opening.
- F. Concrete block foundation walls shall be completely filled with grout.

3.11 CONTROL AND EXPANSION JOINTS

- A. Do not continue horizontal joint reinforcement through control and expansion joints.
- B. Control joints shall be formed in the veneer portion of the wall with no mortar in the head joint. Joint shall be backed with foam rod stock and caulked as specified in Section 07 90 05.

3.12 BUILT-IN WORK

- A. As work progresses, install built-in metal door frames and other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
 - 1. Fill adjacent masonry cores with grout minimum 12 inches (300 mm) from framed openings.
- D. Do not build into masonry construction organic materials that are subject to deterioration.

3.13 TOLERANCES

- A. Maximum Variation from Unit to Adjacent Unit: 1/16 inch (1.6 mm).
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.

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- C. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft (3 mm/m) and 1/4 inch in 10 ft (6 mm/3 m); 1/2 inch in 30 ft (13 mm/9 m).
- E. Maximum Variation of Joint Thickness: 1/8 inch in 3 ft (3 mm/m).
- F. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch (6 mm).

3.14 CUTTING AND FITTING

- A. Cut and fit for chases. Coordinate with other sections of work to provide correct size, shape, and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.15 CLEANING

- A. Remove excess mortar and mortar droppings.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with cleaning solution.

3.16 PROTECTION

A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

SECTION 04 72 00 CAST STONE MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Architectural cast stone.
- B. Units required are:
 - 1. Exterior wall units, including wall caps, coping, and sills.

1.02 RELATED REQUIREMENTS

- A. Section 04 20 00 & 04 20 01 Unit Masonry/Veneer: Installation of cast stone in conjunction with masonry.
- B. Section 07 90 05 Joint Sealers: Materials and execution methods for sealing soft joints in cast stone work.

1.03 REFERENCE STANDARDS

- A. ACI 318 Building Code Requirements for Structural Concrete and Commentary; American Concrete Institute International; 2011.
- B. ASTM A185/A185M Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete; 2007.
- C. ASTM A615/A615M Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement; 2012.
- D. ASTM C33/C33M Standard Specification for Concrete Aggregates; 2011a.
- E. ASTM C150/C150M Standard Specification for Portland Cement; 2012.
- F. ASTM C270 Standard Specification for Mortar for Unit Masonry; 2012.
- G. ASTM C494/C494M Standard Specification for Chemical Admixtures for Concrete; 2012.
- H. ASTM C642 Standard Test Method for Density, Absorption, and Voids in Hardened Concrete; 2006.
- I. ASTM C1364 Standard Specification for Architectural Cast Stone; 2010b.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Manufacturer's Qualification Data: Documentation showing compliance with specified requirements.
- C. Product Data: Test results of cast stone components made previously by the manufacturer.
- D. Shop Drawings: Include elevations, dimensions, layouts, profiles, cross sections, reinforcement, exposed faces, arrangement of joints, anchoring methods, anchors, and piece numbers.
- E. Mortar Color Selection Samples.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A current producer member of the Cast Stone Institute with a minimum of 5 years of experience in producing cast stone of the types required for project and:
 - 1. Adequate plant capacity to furnish quality, sizes, and quantity of cast stone required without delaying progress of the work.
 - 2. Products previously produced by plant and exposed to weather that exhibit satisfactory appearance.
- B. Source Quality Control: Test compressive strength and absorption of specimens selected at random from plant production.
 - 1. Test in accordance with ASTM C642.

22003 - Woodrow Wilson Keeble Memorial Health Care Center USP Compliance IHS # HHSI102201800141 2. Select specimens at rate of 3 per 500 cubic feet (3 per 14 cubic m), with a minimum of 3 per production week.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver cast stone components secured to shipping pallets and protected from damage and discoloration. Protect corners from damage.
- B. Number each piece individually to match shop drawings and schedule.
- C. Store cast stone components and installation materials in accordance with manufacturer's instructions.
- D. Store cast stone components on pallets with nonstaining, waterproof covers. Ventilate under covers to prevent condensation. Prevent contact with dirt.
- E. Protect cast stone components during handling and installation to prevent chipping, cracking, or other damage.
- F. Store mortar materials where contamination can be avoided.
- G. Schedule and coordinate production and delivery of cast stone components with unit masonry work to optimize on-site inventory and to avoid delaying the work.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Architectural Cast Stone: Design intent is to match that of existing conditions/systems.
 - 1. Any current producer member of the Cast Stone Institute.
 - 2. American Artstone.
 - 3. Edward Cast Stone
 - 4. Stoneworks Architectural Precast.
 - 5. Substitutions: See Section 01 60 00 Product Requirements.

2.02 ARCHITECTURAL CAST STONE

- A. Cast Stone: Architectural concrete product manufactured to simulate appearance of natural granite, complying with ASTM C1364.
 - 1. Compressive Strength: As specified in ASTM C1364; calculate strength of pieces to be field cut at 80 percent of uncut piece.
 - 2. Freeze-Thaw Resistance: Demonstrated by field experience.
 - 3. Surface Texture: Fine grained texture, with no bugholes, air voids, or other surface blemishes visible from distance of 20 feet (6 meters).
 - 4. Remove cement film from exposed surfaces before packaging for shipment.
- B. Shapes: Provide shapes indicated on drawings.
 - 1. Variation from Any Dimension, Including Bow, Camber, and Twist: Maximum of plus/minus 1/8 inch (3 mm) or length divided by 360, whichever is greater, but not more than 1/4 inch (6 mm).
 - 2. Unless otherwise indicated on drawings, provide:
 - a. Wash or slope of 1:12 on exterior horizontal surfaces.
 - b. Drips on projecting components, wherever possible.
 - c. Raised fillets at back of sills and at ends to be built in.
- C. Reinforcement: Provide reinforcement as required to withstand handling and structural stresses; comply with ACI 318.

2.03 MATERIALS

- A. Portland Cement: ASTM C150.
 - 1. For Mortar: Type I or II, except Type III may be used in cold weather.
- B. Coarse Aggregate: ASTM C33, except for gradation; granite, quartz, or limestone.
- C. Fine Aggregate: ASTM C33, except for gradation; natural or manufactured sands.
- D. Admixtures: ASTM C494/C494M.

- E. Water: Potable.
- F. Reinforcing Bars: ASTM A615/A615M deformed bars, galvanized or epoxy coated.
- G. Steel Welded Wire Reinforcement: ASTM A185/A185M, galvanized or epoxy coated.
- H. Embedded Anchors, Dowels, and Inserts: Type 304 stainless steel, of type and size as required for conditions.
- I. Mortar: Portland cement-lime, ASTM C270, Type N; do not use masonry cement.
- J. Sealant: As specified in Section 07 90 05.
- K. Cleaner: General-purpose cleaner designed for removing mortar and grout stains, efflorescence, and other construction stains from new masonry surfaces without discoloring or damaging masonry surfaces; approved for intended use by cast stone manufacturer and by cleaner manufacturer for use on cast stone and adjacent masonry materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine construction to receive cast stone components. Notify Architect if construction is not acceptable.
- B. Do not begin installation until unacceptable conditions have been corrected.

3.02 INSTALLATION

- A. Install cast stone components in conjunction with masonry, complying with requirements of Section 04 20 00.
- B. Mechanically anchor cast stone units indicated; set remainder in mortar.
- C. Setting:
 - 1. Drench cast stone components with clear, running water immediately before installation.
 - 2. Set units in a full bed of mortar unless otherwise indicated.
 - 3. Fill vertical joints with mortar.
 - 4. Fill dowel holes and anchor slots completely with mortar or non-shrink grout.
- D. Joints: Make all joints 3/8 inch (9.5 mm), except as otherwise detailed.
 - 1. Rake mortar joints 3/4 inch (19 mm) for pointing.
 - 2. Remove excess mortar from face of stone before pointing joints.
 - 3. Point joints with mortar in layers 3/8 inch (9.5 mm) thick and tool to a slight concave profile.
 - 4. Leave the following joints open for sealant:
 - a. Head joints in top courses, including copings, parapets, cornices, sills, and steps.
 - b. Joints in projecting units.
 - c. Joints between rigidly anchored units, including soffits, panels, and column covers.
 - d. Joints below lugged sills and stair treads.
 - e. Joints below ledge and relieving angles.
 - f. Joints labeled "expansion joint".
- E. Sealant Joints: Install sealants as specified in Section 07 90 05.
- F. Repairs: Repair chips and other surface damage noticeable when viewed in direct daylight at 20 feet (6 m).
 - 1. Repair with matching touchup material provided by the manufacturer and in accordance with manufacturer's instructions.
 - 2. Repair methods and results subject to Architect 's approval.

SECTION 06 41 00 ARCHITECTURAL WOOD CASEWORK - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Countertops & window sills.
- C. Cabinet Hardware.
- D. Solid Surface Fabrications

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 Rough Carpentry: Support framing, grounds, and concealed blocking.
- B. Section 06 20 00 Finish Carpentry: Related work.

1.03 REFERENCE STANDARDS

- A. AWMAC/WI (NAAWS) North American Architectural Woodwork Standards, U.S. Version 3.1 2017, with Errata (2019).
- B. BHMA A156.9 American National Standard for Cabinet Hardware 2015.
- C. GSA CID A-A-1936 Adhesive, Contact, Neoprene Rubber 1996a (Validated 2013).
- D. HPVA HP-1 American National Standard for Hardwood and Decorative Plywood 2016.
- E. NEMA LD 3 High-Pressure Decorative Laminates 2005.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes.
- C. Product Data: Provide data for hardware accessories.

1.06 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
- B. Perform work in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Custom quality, unless other quality is indicated for specific items.

1.07 MOCK-UP

- A. Provide mock-up of typical base cabinet, wall cabinet, and countertop, including hardware, finishes, and plumbing accessories.
- B. Locate where directed.
- C. Mock-up may remain as part of the Work.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Protect units from moisture damage.

1.09 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 CABINETS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.
- C. Wood Veneer Faced Cabinets with Flush Door/Drawer Panels & Stile and Rail Wood Cabinets:
 - 1. Finish Exposed Exterior Surfaces: Wood.
 - 2. Finish Exposed Interior Surfaces: Wood.
 - 3. Finish Concealed Surfaces: Wood.
 - 4. Door and Drawer Front Edge Profiles:
 - a. Wood Veneer Faced Flush Cabinets: Square edge with 1/8" applied solid wood edge-banding.
 - b. Wood Stile and Rail Cabinets: Profiles as indicated in schedule.
 - 5. Casework Construction Type: Type A Frameless.
 - 6. Adjustable Shelf Loading: 50 lbs. per sq. ft.
 - a. Deflection: L/144.
 - 7. Cabinet Style: Flush overlay.
 - 8. Cabinet Doors and Drawer Fronts:
 - a. Wood Veneer Faced Flush Cabinets: Flush Style.
 - b. Wood Stile and Rail Cabinets: Profiles as indicated in schedule.
 - 9. Drawer Side Construction: Multiple-dovetailed.
 - 10. Drawer Construction Technique: Dovetail joints.

2.02 WOOD-BASED COMPONENTS

A. Wood fabricated from old growth timber is not permitted.

2.03 PANEL 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; thickness as required.
- B. Particleboard: ANSI A208.1; type as specified in AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, composed of wood chips, medium density, made with moisture resistant; of grade to suit application; sanded faces.

2.04 LAMINATE MATERIALS

- A. Manufacturers:
 - 1. Arborite; ColorEdge: www.arborite.com/#sle.
 - 2. Formica Corporation: www.formica.com/#sle.
 - 3. Panolam Industries International, Inc; Nevamar Standard HPL: www.panolam.com/#sle.
 - 4. Wilsonart LLC: www.wilsonart.com/#sle.
 - 5. Substitutions: See Section 01 60 00 Product Requirements.
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. Provide specific types as indicated.
 - 1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, colors as indicated, finish as indicated.
 - 2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, colors as indicated, finish as indicated.
 - 3. Flame Retardant Surfaces: HGF, 0.048 inch nominal thickness, through color, colors as indicated, finish as indicated.

4. Cabinet Liner: CLS, 0.020 inch nominal thickness, through color, colors as indicated, finish as indicated, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

2.05 COUNTERTOPS

- A. Quality Standards: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) OR AWMAC/WI.
- B. Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated with 3mm PVC edge-banding.
- Generation Countertops: Solid surfacing sheet or plastic resin casting over continuous substrate.
 - 1. Flat Sheet Thickness 1/2" (12 mm).
 - 2. Solid Surfacing Sheet & Plastic Resin Castings: Complying with ISFA 201 and NEMA LD.
 - 3. Acrylic or Polyester Resin, Mineral Filler, and Pigments: Homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
 - a. Finish on Exposed Surfaces: Matte, gloss rating of 5 to 20.
 - 4. Other Components Thickness: ¹/₂" minimum.
 - 5. Edges, Backs and End Splashes: Same sheet material, square top, minimum 4 inches high.
 - 6. Fabricator and installer must follow the DuPont Corian Solid Surface Commercial Food Service Technical Bulletin where applicable.

2.06 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
 - 1. GSA CID A-A-1936 contact adhesive.
- B. 3mm PVC banding, machine applied with waterproof hot melt adhesive with external edges and outside corners of doors and drawer fronts, and countertops, machine profiled to 1/8" radius for safety.
- C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- D. Grommets: plastic material for cut-outs. Outwater Plastics #35-3 or equal, 3 inch diameter grommet.
- E. Steel Angle Support for wide openings in countertops shall be 3/4 x 3/4 x 1/8 inch steel angles.
- F. Counter Support Brackets: Metal angle support brackets with 3" x 3" x 45 degree notch at the wall for wall cleat and wire run clearance. Brackets shall be fabricated from 1/8 inch thick steel and shall be 24 x 29 inches, finished in a textured powder coat, color as selected by Architect from manufacturer's standard line of colors. Counter Support Brackets shall be as manufactured by Wizard Products; 800-286-5471.
- G. Shelf Standards & Brackets:
 - Standards shelving standards shall be fabricated from 12 gauge steel, 7/8" wide x 11/16" high with 2" increment adjusting furnished in lengths required as shown on the drawings. Shelving standards shall have an anochrome finish. Shelving standards shall be Knape & Vogt - 87 ANO Extra Heavy Duty Standards or equal.
 - Brackets shelving brackets shall be fabricated from 12 gauge steel with an anochrome finish, depth as shown on the drawings. Shelving brackets shall be Knape & Vogt - 187LL ANO Extra Heavy Duty Brackets in lengths as shown on drawings or equal.
- H. Fasteners: Size and type to suit application.
- I. Concealed Joint Fasteners: Threaded steel.

2.07 HARDWARE

- A. Shelf Brackets: 1/8" diameter steel pins that fit into predrilled holes in the cabinet sides. Pins to have a flattened exposed surface to support the shelf.
- B. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, black finish locks at wood cabinets, chrome finish locks at plam cabinets.
- C. Catches: Magnetic.
- D. Drawer Slides:
 - 1. Type: Full extension.
 - 2. Static Load Capacity: Commercial grade.
 - 3. Mounting: Side mounted.
 - 4. Stops: Integral type.
 - 5. Features: Provide self-closing/stay closed type.
- E. Hinges: Concealed European style, steel with chrome finish, soft-close.
- F. Fire Hanger Hardware: Fabricators standard hardware for front to back hanging files.
- G. Floating Shelf Hardware: Knape and Vogt Floating Shelf Kit or similar.
- H. Metal Coat Rod: Fabricators standard chrome metal rod with receiver ends.
- I. Trash Drawer: HDL Rev-A-Shelf TWC Series Pullout Waste Bins or similar.
- J. Door/Drawer Pulls:

2.08 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. All casework shall conform to the standards of the Architectural Woodworking Institute -Section 10 Casework, Custom Grade, Flush Overlay Design. All body members and tops shall be thickness as shown on the drawings or as specified herein, medium density fiberboard or plywood covered on the exposed side with decorative plastic laminate and unexposed side with laminate backing sheet. Wood veneer shall be glued to the particle board under pressure.
- C. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- D. Door and Drawer Fronts: 3/4 inch thick; flush style.
- E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- F. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
- G. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
- H. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use concealed joint fasteners to align and secure adjoining cabinet units.
- C. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

3.03 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

3.05 SCHEDULES

- A. P-LAM
 - 1. P-LAM 1: Premium Price Point (highest cost)
 - 2. P-LAM 2: Premium Price Point (highest cost)
 - 3. P-LAM CABINETS: Premium Price Point (highest cost)
 - P-LAM COUNTERS: Premium Price Point (highest cost)

 a. Standard spec with top-set backsplash and sidesplash.
 b. 3mm PVC edge banding on counter edges
- B. Solid Surfacing
 - 1. SSM -1: Premium Price Point (highest cost)

Door	HwSet#
Numbers	
1A	02
1B	02
3	02
4	02
101	10
102	04
104	11
105	04
106	04
107	04
108	04
109	04
110	04
RX101A	02
RX101B	08
RX103	04
RX104	04
RX105	04
RX106	01
RX107	01
RX108A	02
RX108B	05
RX109	04
RX110	02
RX110B	03
RX111	09
RX112A	02
RX112B	06
RX113A	07
RX113B	07
RX114	02

SECTION 08 80 00

GLAZING - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Glass.
- B. Glazing compounds and accessories.
- C. Transaction Window.

1.02 RELATED REQUIREMENTS

- A. Section 08 12 13 Hollow Metal Frames: Glazed borrowed lites.
- B. Section 08 14 16 Flush Wood Doors: Glazed lites in doors.
- C. Section 08 43 13 Aluminum-Framed Storefronts: Glazing furnished by storefront manufacturer; shall meet state Energy Compliances.

1.03 REFERENCE STANDARDS

- A. ASTM C864 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2011).
- B. ASTM C920 Standard Specification for Elastomeric Joint Sealants; 2014.
- C. ASTM C1036 Standard Specification for Flat Glass; 2011.
- D. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.
- E. ASTM E773 Standard Test Method for Accelerated Weathering of Sealed Insulating Glass Units; 2001.
- F. ASTM E774 Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units; 1997.
- G. ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.
- H. GANA (GM) GANA Glazing Manual; 2009.
- I. GANA (SM) GANA Sealant Manual; 2008.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Meeting: Convene a pre-installation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data on Glass Types: Provide structural, physical and environmental characteristics, size limitations, special handling or installation requirements.
- C. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors.

1.06 QUALITY ASSURANCE

A. Perform Work in accordance with GANA Glazing Manual and FGMA Sealant Manual for glazing installation methods.

1.07 PRE-INSTALLATION MEETING

A. Convene one week before starting work of this section.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

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B. Sealed Insulating Glass Units: Provide a ten (10) year warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.

PART 2 PRODUCTS

2.01 GLASS MATERIALS

- A. Float Glass Manufacturers:
 - 1. AGC Flat Glass North America, Inc: www.na.agc-flatglass.com.
 - 2. Guardian Industries Corporation: www.guardian.com.
 - 3. Pilkington North America Inc: www.pilkington.com/na.
 - 4. PPG Industries, Inc: www.ppgideascapes.com.
 - 5. Visteon Glass Systems: www.visteon.com/floatglass.
 - 6. Viracon.
 - 7. Substitutions: Refer to Section 01 60 00 Product Requirements.
- B. Float Glass: Provide float glass based glazing unless noted otherwise.
 - 1. Annealed Type: ASTM C1036, Type I Transparent Flat, Class 1 Clear, Quality-Q3.
 - 2. Heat-Strengthened and Fully Tempered Types: ASTM C1048, Kind HS and Kind FT.
 - 3. Tinted Types: ASTM C1036, Class 2 Tinted, color and performance characteristics as indicated.
 - 4. Thicknesses: As indicated; for exterior glazing comply with requirements indicated for wind load design regardless of thickness indicated.
- C. Fire Resistance-Rated Glazing: Type, thickness, and configuration as required to achieve indicated ratings.
 - 1. IBC Fire Resistance Rating: W-45, minimum.
 - 2. Provide products listed by Underwriters Laboratories or Intertek Warnock Hersey.
 - 3. Safety Certification: 16 CFR 1201 Category II.
- D. Fire-Protection-Rated Glazing: Type, thickness, and configuration as required to achieve indicated ratings.
 - 1. IBC Fire Protection Rating: As indicated on drawings.
 - 2. Provide products listed by Underwriters Laboratories or Intertek Warnock Hersey.
 - 3. Labeling: Provide permanent label on each piece giving the IBC rating and other information required by the applicable code.
- E. Clear Float Glass: Clear, annealed.
 - 1. Comply with ASTM C 1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select).
 - 2. Comply with ASTM C 1048, Condition A uncoated, Type I, transparent flat, Class 1, Quality q3 glazing select.
 - 3. 1/4 inch thick.
- F. Safety Glass: Clear; fully tempered with horizontal tempering.
 - 1. Comply with ASTM C 1048, Condition A uncoated, Type I, transparent flat, Class 1, Quality q3 glazing select.
 - 2. Comply with ANSI Z97.1.
 - 3. 1/4 inch thick, interior glazing.
- G. Laminated Glass: 1/2" Laminated Glazing.
 - 1. Comply with ASTM C 1048
- H. Ballistic Glazing: Total Security Solutions Defender Insulated Glass Level 3 or approved equal; level 8.

2.02 SEALED INSULATING GLASS UNITS

- A. Manufacturers:
 - 1. Any of the manufacturers specified for float glass.
 - 2. Substitutions: Refer to Section 01 60 00 Product Requirements.

- B. Sealed Insulating Glass Units: Types as indicated.
 - 1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
 - 2. Edge Spacers: Aluminum, bent and soldered corners.
 - 3. Edge Seal: Glass to elastomer with supplementary silicone sealant.
 - 4. Purge interpane space with dry hermetic air.
- C. Insulated Glass Units: Double pane with glass to elastomer edge seal.
 - 1. Outer pane of 1/4 inch glass, inner pane of 1/4 inch glass
 - 2. Place reflective coating on No. 3 surface within the unit.
 - 3. Comply with ASTM E 774 and E 773, Class CBA.
 - 4. Purge interpane space with dry hermetic air.
 - 5. Total unit thickness of 1 inch.
- D. Tempered Insulated Glass Units : Double pane with glass to elastomer edge seal.
 - 1. Outer pane of 1/4 inch tempered glass, inner pane of 1/4 inch tempered glass.
 - 2. Place reflective coating on No. 3 surface within the unit.
 - 3. Comply with ASTM E 774 and E 773, Class CBA.
 - 4. Purge interpane space with dry hermetic air.
 - 5. Total unit thickness of 1 inch .
- E. Insulated Spandrel Glass Units (Type SG): Double Pane with glass to elastomer edge seal.
 - 1. Outer pane of 1/4 inch heat strengthened glass, inner pane of 1/4 inch ceramic frit fused to the outer surface, color as selected by Architect.
 - 2. Comply with ASTM C 1048, Condition B spandrel glass one surface coated Type II pattern flat, Class 2 tinted heat absorbing and light reducing, Quality q7 decorative.
 - 3. Comply with ASTM C 1036 Type I, transparent flat, Class 2 tinted heat absorbing and light reducing.
 - 4. Total unit thickness of 1 inch.
- F. Insulated Silkscreen Glass Units (Silkscreen & Tempered): Triple Pane with glass to elastomer edge seal.
 - 1. Outer panes of 1/4 inch heat strengthened glass, inner pane of 1/4 inch ceramic frit fused to the outer surface, color as selected by Architect.
 - 2. Comply with ASTM C 1048, Condition C other coated glass one surface coated Type II pattern flat, Class 2 tinted heat absorbing and light reducing, Quality q7 decorative.
 - 3. Comply with ASTM C 1036 Type I, transparent flat, Class 2 tinted heat absorbing and light reducing.
 - 4. Total unit thickness of 1 inch.

2.03 GLAZING COMPOUNDS

- A. Manufacturers:
 - 1. Dow Corning Corp: www.dowcorning.com.
 - 2. GE Plastics: www.geplastics.com.
 - 3. Pecora Corporation: www.pecora.com.
 - 4. Substitutions: Refer to Section 01 60 00 Product Requirements.
- B. Butyl Sealant: Single component; ASTM C920, Grade NS, Class 12-1/2, Uses M and A, Shore A hardness of 10 to 20; black color.
- C. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C920, Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.

2.04 GLAZING ACCESSORIES

- A. Manufacturers:
 - 1. Norton Performance Plastics Corp.
 - 2. Pecora Corporation: www.pecora.com.
 - 3. Tremco, Inc: www.tremcosealants.com.
 - 4. Substitutions: Refer to Section 01 60 00 Product Requirements.

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- B. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.
- C. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long x one half the height of the glazing stop x thickness to suit application, self-adhesive on one face.
- D. Glazing Tape: Preformed butyl compound with integral resilient tube spacing device; 10 to 15 Shore A durometer hardness; coiled on release paper; black color.
- E. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option I; .
- F. Glazing Clips: Manufacturer's standard type.
- G. Transaction Window: CRL Cashier windows or approved equal.
 - 1. Stainless steel shelf with built-in deal tray and speak through.
 - 2. 30" width x 18" depth or as shown on drawings.
 - 3. See paragraph 2.01, item H above.
- H. Ballistic Glass Boxes: CRL Bullet Protection Hand Package Receiver or approved equal.
 - 1. Aluminum extrusion framing with level 3 ballistic clear glazing.
 - 2. 16" width x 16" or as shown on drawings.
 - 3. CPR31/CPR32; See drawings for handed direction(s).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that openings for glazing are correctly sized and within tolerance.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and ready to receive glazing.

3.02 PREPARATION

- A. Clean contact surfaces with solvent and wipe dry.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant.
- D. Install sealants in accordance with manufacturer's instructions.

3.03 INSTALLATION - EXTERIOR WET/DRY METHOD (PREFORMED TAPE AND SEALANT)

- A. Cut glazing tape to length and set against permanent stops, 3/16 inch below sight line. Seal corners by butting tape and dabbing with butyl sealant.
- B. Apply heel bead of butyl sealant along intersection of permanent stop with frame ensuring full perimeter seal between glass and frame to complete the continuity of the air and vapor seal.
- C. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- D. Rest glazing on setting blocks and push against tape and heel bead of sealant with sufficient pressure to attain full contact at perimeter of pane or glass unit.
- E. Install removable stops, with spacer strips inserted between glazing and applied stops 1/4 inch below sight lines.
 - 1. Place glazing tape on glazing pane of unit with tape flush with sight line.
- F. Install removable stops, with spacer strips inserted between glazing and applied stops, 1/4 inch below sight line. Place glazing tape on glazing pane or unit with tape flush with sight line.
- G. Fill gap between glazing and stop with silicone type sealant to depth equal to bite of frame on glazing, but not more than 3/8 inch below sight line.

H. Apply cap bead of silicone type sealant along void between the stop and the glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.

3.04 INSTALLATION - INTERIOR WET/DRY METHOD (TAPE AND SEALANT)

- A. Cut glazing tape to length and install against permanent stops, projecting 1/16 inch above sight line.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against tape to ensure full contact at perimeter of pane or unit.
- D. Install removable stops, spacer shims inserted between glazing and applied stops at 24 inch intervals, 1/4 inch below sight line.
- E. Fill gaps between pane and applied stop with silicone type sealant to depth equal to bite on glazing, to uniform and level line.
- F. Trim protruding tape edge

3.05 CLEANING

- A. Remove glazing materials from finish surfaces.
- B. Remove labels after Work is complete.
- C. Clean glass and adjacent surfaces.

SECTION 09 21 16 GYPSUM BOARD ASSEMBLIES - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Performance criteria for gypsum board assemblies.
- B. Metal stud wall framing.
- C. Metal channel ceiling framing.
- D. Acoustic insulation.
- E. Cementitious backing board.
- F. Gypsum wallboard.
- G. Joint treatment and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 07 84 00 Firestopping: Top-of-wall assemblies at fire rated walls.
- B. Section 07 90 05 Joint Sealers: Acoustic sealant.

1.03 REFERENCE STANDARDS

- AISI SG02-1 North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2001 with 2004 supplement. (replaced SG-971)
- B. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- C. ASTM C475/C475M Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017.
- D. ASTM C645 Standard Specification for Nonstructural Steel Framing Members; 2013.
- E. ASTM C665 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.
- F. ASTM C754 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.
- G. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board; 2020.
- H. ASTM C954 Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2018.
- I. ASTM C1002 Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2020.
- J. ASTM C1047 Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.
- K. ASTM C1396/C1396M Standard Specification for Gypsum Board; 2017.
- L. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2016.
- M. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2020.
- N. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2009, (reapproved 2016).
- O. ASTM E413 Classification for Rating Sound Insulation; 2016.
- P. GA-216 Application and Finishing of Gypsum Board; Gypsum Association; 2016.
- Q. GA-600 Fire Resistance Design Manual; Gypsum Association; 2015.

- R. ICC (IBC) International Building Code; Most recent edition adopted by the Authorities Having Jurisdiction.
- S. UL (FRD) Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing gypsum board application and finishing, with minimum 3 years of documented experience.

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

- A. Provide completed assemblies complying with ASTM C840 and GA-216.
- B. Interior Partitions Indicated as Acoustic: Provide completed assemblies with the following characteristics:
 - 1. Acoustic Attenuation: STC of 45-49 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.
- C. Fire Rated Assemblies: Provide completed assemblies with the following characteristics:
 - 1. Fire Rated Partitions: UL listed assembly No. U419; 1 hour rating.
 - 2. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL Fire Resistance Directory.

2.02 METAL FRAMING MATERIALS

- A. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.
 - 1. Studs: "C" shaped with flat or formed webs with knurled faces.
 - 2. Runners: U shaped, sized to match studs.
 - 3. Ceiling Channels: C shaped.
 - 4. Furring: Hat-shaped sections, minimum depth of 7/8 inch.
 - 5. Furring: "Z" shaped sections, minimum depth of 2 inches.
 - a. Contractors Option: Alternate "Z" Shaped Section: EcoStud, 100% recycled plastic studs as manufactured by Superior Polymer, phone 906-337-3355.
- B. Metal Framing: Drywall and Plaster Ceilings:
 - 1. Chicago Metallic Corporation System 640 and fire Front 650.
 - 2. USG Drywall Suspension System Flat for Ceilings, rated and non-rated one hour.
 - 3. Armstrong Quickstix Drywall Ceiling Framing.
- C. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
- D. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.
 - 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
 - 2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot dipped galvanized coating.
 - 3. Provide components UL-listed for use in UL-listed fire-rated head of partition joint systems indicated on drawings.
 - 4. Deflection and Firestop Track:
 - a. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-rating of the wall assembly.

- b. Acceptable Products:
 - 1) "Posi Clip" by Fire Trak Corporation.
 - 2) "The System" by Metal-Lite, Inc.
- 5. Provide top track preassembled with connection devices spaced to fit stud spacing indicated on drawings; minimum track length of 12 feet.
- E. Partial Wall Framing Connection to Floor: Provide support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track. Out-of-plan loads are transferred to the floor system through the base-plate, which is welded to the heavy stud member.
 - 1. Plate Material: ASTM A36 ¹/₂" thick hot rolled steel.
 - 2. Stud Material: ASTM A1011 SS Grade 50, 50ksi (340 MPa); 97 mils (12ga), 0.1017" Design thickness, 0.0966" Min. thickness.
 - 3. Coating: Envirocron® Powder Coating
 - 4. Plate Dimensions: 3-3/8" x 8" x $\frac{1}{2}$ " thick
 - 5. Stud Dimensions: 3-5/8" x 2-1/2" x 59-1/4" tall
 - 6. Packaging: Individually
 - 7. Product Weight: 19.3 lb/piece
 - 8. Code Approvals & Performance Standards:
 - a. AISI S100-16 (2020) w/S2-20 North American Specification for the Design of Cold-Formed Steel Structural Members
 - b. ASTM A36 Standard Specification for Carbon Structural Steel
 - c. ASTM A1011 Standard Specification for Structural Steel
 - 9. Acceptable Product:
 - a. ClarkDietrich Pony Wall Heavy 60" (PW60)

2.03 BOARD MATERIALS

- A. Manufacturers Gypsum-Based Board:
 - 1. CertainTeed Corporation: www.certainteed.com.
 - 2. Lafarge North America Inc: www.lafargenorthamerica.com.
 - 3. National Gypsum Company: www.nationalgypsum.com.
 - 4. USG Corporation: www.usg.com.
 - 5. Substitutions: See Section 01 60 00 Product Requirements.
- B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
 - 1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
 - 2. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
 - 3. Thickness:
 - a. Vertical Surfaces: 5/8 inch.
 - b. Ceilings: 5/8 inch.
 - 4. Paper-Faced Products:
 - a. CertainTeed Corporation; ProRoc Brand Gypsum Board.
 - b. Lafarge North America Inc; Regular Drywall and Firecheck Type X and Type C.
 - c. National Gypsum Company; Gold Bond Brand Gypsum Wallboard.
 - d. USG Corporation; Sheetrock Brand Gypsum Panels.
 - e. Substitutions: See Section 01 60 00 Product Requirements.
- C. Security Board/Mesh:
 - 1. Gyp. Bd. Assemblies, Bullet Resistant Panels:
 - a. Manufacturer: Armocore
 - b. Model: UL752 Level 3
 - c. Thickness: 7/16"
 - d. Protection Level:
 - 1) Ballistic: UL752 Level 3
 - 2) Forced Entry: Class IV per ASTM F1233-98

- e. Installation: Install per manufacturer's instructions. All joints need to be reinforced by a 4" batten strip.
- 2. Security Barrier Mesh:
 - a. Manufacturer: CLARK DIETRICH
 - b. Model: BM15
 - c. Gauge: 9
 - d. Material: Type II, Class 1 Carbon Steel Mesh, Complying to ASTM F1267 and A1011.
 - e. Installation: Install per manufacturer's instructions with Barrier Mesh clips, install Barrier Mesh clips 6" on center.
- D. Backing Board for Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
 - 1. Application: Vertical surfaces behind thinset tile, except in wet areas.
 - 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 - 3. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
 - 4. Type: Regular and Type X, in locations indicated.
 - 5. Type X Thickness: 5/8 inch.
 - 6. Regular Board Thickness: 5/8 inch.
 - 7. Edges: Tapered.
 - 8. Products:
 - a. CertainTeed Corporation; ProRoc Brand Moisture Resistant Gypsum Board ("Greenboard").
 - b. Georgia-Pacific Gypsum; DensShield Tile Backer.
 - c. Lafarge North America Inc; Watercheck ("Greenboard").
 - d. National Gypsum Company; Gold Bond Brand XP Gypsum Board.
 - e. USG Corporation; Sheetrock Brand Mold Tough Gypsum Panels.
 - f. Substitutions: See Section 01 60 00 Product Requirements.

2.04 ACCESSORIES

- A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced.
 - 1. Owens Corning Noise Barrier Batts
 - 2. Manville Sound Control Batts
 - 3. Certainteed Sound Control Batts
 - 4. Guardian Fiberglass, Inc. Sound Control Batts
- B. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board. Acoustical sealant shall be as manufactured by one of the following or approved equal:
 - 1. Ohio Sealants Inc. Sound Sealant Rubber Base
 - 2. Pecora Acoustical Sealant
 - 3. Tremco -Acoustical Sealant
- C. Acoustic Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board.
- D. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
 - 1. Tape: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
 - 2. Tape: 2 inch wide, creased paper tape for joints and corners, except as otherwise indicated.
 - 3. Ready-mixed vinyl-based joint compound.
 - 4. Powder-type vinyl-based joint compound.
 - 5. Chemical hardening type compound for use in mold resistant systems.
- E. Screws for Attachment to Steel Members Less Than 0.03 inch In Thickness, to Wood Members, and to Gypsum Board: ASTM C1002; self-piercing tapping type; cadmium-plated for exterior locations.
- F. Screws for Attachment to Steel Members From 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws for application of gypsum board to loadbearing steel studs.

- G. Resilient Furring Channels: 1/2 inch deep Galvanized steel, Dietrich RC Deluxe.
- H. Security Barrier Mesh: 16 gauge, 3/4" Diamond; Clark-Dietrich or approved equal
- H. Wall Port: 2" inside diameter, color white, manufactured by Wall Eye Solutions.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

- A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
- B. Studs: Space studs as permitted by standard.
 - 1. Extend partition framing to structure where indicated and to ceiling in other locations.
 - 2. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
- C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
- D. Standard Wall Furring: Install at concrete and masonry walls scheduled to receive gypsum board, not more than 4 inches from floor and ceiling lines and abutting walls. Secure in place on alternate channel flanges at maximum 24 inches on center.
 - 1. Orientation: Vertical.
 - 2. Spacing: As indicated.
- E. Acoustic Furring: Install resilient channels at maximum 24 inches on center. Locate joints over framing members.
- F. Suspended Ceilings and Soffits: Space framing and furring members as indicated.
 - 1. Level ceiling system to a tolerance of 1/360.
 - 2. Main runners shall be installed 48" on center, and be directly suspended by not less than 12 gage galvanized steel wire spaced 48" on center along the furring runners. Hanger wires shall be wrapped tightly with at least 3 full turns.
 - 3. Furring main runners shall be interconnected by furring cross tees 48" long spaced 16" on center and also 8" from the ends of each gypsum drywall panel. Cross tees shall also be installed adjacent to all recessed light fixtures on each side not supported by a furring runner. Pay special attention to the type of lay-in light fixture and direction in which they are installed.
 - 4. Wall track shall be installed wherever suspension components meet vertical surfaces, and the suspension component ends shall be butt cut to fit into the wall track.
 - 5. Studs: Space studs at 16 inches (400 mm) on center.
 - a. Extend stud framing through ceiling to structure above. Maintain clearance under structural building members to avoid deflection transfer to studs. Provide extended leg ceiling runners.
 - b. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
 - 6. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
- G. Blocking: Install blocking for support of plumbing fixtures, wall cabinets, toilet accessories, and hardware. Bolt or screw steel channels to studs.

3.03 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

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- B. Acoustic Sealant: Install in accordance with manufacturer's instructions.
 - 1. Place one bead continuously on substrate before installation of perimeter framing members.
 - 2. Place continuous bead at perimeter of each layer of gypsum board.
 - 3. In non-fire-rated construction, seal around all penetrations by conduit, pipe, ducts, and rough-in boxes.
 - 4. Bottom of Partitions: Apply a round bead of sealant at each side stud track before setting gypsum board. Set gypsum board into sealant to form complete contact with adjacent materials.
 - 5. Top and Sides of Partitions Abutting Existing Construction or Non-acoustical New Construction After gypsum board is installed apply acoustical sealant to provide full contact with adjacent existing surfaces at each side of the partition.
 - 6. Cut Outs Backs of electrical boxes, pipes, ducts, and other equipment penetrating the wall surface shall be buttered with sealant and perimeter edges of all items sealed with sealant.

3.04 BOARD INSTALLATION

- A. Comply with ASTM C 840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
- B. Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
 - 1. Exception: Tapered edges to receive joint treatment at right angles to framing.
- C. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
- D. Cementitious Backing Board: Install over steel framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.
- E. Installation on Metal Framing: Use screws for attachment of all gypsum board except face layer of non-rated double-layer assemblies, which may be installed by means of adhesive lamination.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

- A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
 - 1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
 - 2. Partition, furring or column fireproofing abuts a structural element (except floor) or dissimilar wall or ceiling.
 - 3. Ceiling or soffit abuts a structural element, dissimilar wall or partition or other vertical penetration.
 - 4. Construction changes within the plane of partition or ceiling.
 - 5. Ceiling dimensions exceed fifty feet in either direction with perimeter relief, thirty feet without relief.
 - 6. Where wings of "L", "U" and "T" shaped ceiling areas are joined.
 - 7. Where gypsum board systems abut dissimilar materials, gypsum board shall be isolated by installing a casing bead within a 1/4" of the dissimilar material and sealing the joint with either acoustical sealant as specified above for sound insulated partitions or caulking as specified under Section 07 90 05.
 - 8. Ceiling height door frames may be used as control joints. Less than ceiling height frames shall have control joints extending to the ceiling from both corners. Window openings shall be treated similar to doors with joint extending to the floor as well as the ceiling. Control joints in gypsum board to gypsum board configurations shall be formed using expansion joint formers as specified above. Joints shall be caulked with sound sealant or caulking as specified in Section 07 90 05 as appropriate to the condition.
 - Control joints in fire rated construction shall be formed with double studs and expansion joint former and backed with safing insulation as specified under Section 07 84 00.
- B. Corner Beads: Install at external corners, using longest practical lengths.

3.06 JOINT TREATMENT

- A. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberglass joint tape, bedded and finished with chemical hardening type joint compound.
- B. Paper Faced Gypsum Board: Use paper joint tape, bedded with ready-mixed vinyl-based joint compound and finished with ready-mixed vinyl-based joint compound.
- C. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
 - 1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
 - 2. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
- D. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 1. Feather coats of joint compound so that camber is maximum 1/32 inch.
SECTION 09 65 00

RESILIENT FLOORING - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. VCT
- B. Resilient flooring.
- C. Resilient base.
- D. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.

1.03 REFERENCE STANDARDS

- A. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- B. ASTM F970 Standard Test Method for Static Load Limit; 2007 (Reapproved 2011).
- C. ASTM F1066 Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2014)e1.
- D. ASTM F1861 Standard Specification for Resilient Wall Base; 2008 (Reapproved 2012)e1.
- E. ASTM F1913 Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2004 (Reapproved 2014).
- F. FS RR-T-650 Treads, Metallic and Nonmetallic, Skid Resistant; Federal Specifications and Standards; Revision E, 1994.
- G. RFCI (RWP) Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute; October 2011.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on specified products, installation adhesives and accessories, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Shop Drawings: Indicate seaming plan.
- D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Verification from the flooring installer, in writing, on his letterhead, indicating that he has reviewed the concrete moisture content testing reports, or has conducted his own moisture content tests and accepts the moisture levels present within the concrete slab as acceptable for the installation of the products being furnished.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect roll materials from damage by storing on end.

1.06 FIELD CONDITIONS

- A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

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RESILIENT FLOORING – REVISED ADDENDUM #1

PART 2 PRODUCTS

2.01 VCT FLOORING

- A. VCT: Nora by Interface Noraplan Environcare Tile
 - 1. Color: TBD
 - 2. Dimensions: 24" x 24" (610mm x 610mm)
 - 3. Thickness: 0.08" (2.0 mm)
 - 4. *Integral Cove base as noted at locations shown on drawings.
 - 5. Contact: Nora Lewandowski nora.lewandowski@interface.com

2.02 SHEET FLOORING

- A. SV-1:
 - 1. Product: Eco Surface Forest RX
 - 2. Color: To be determined
 - 3. Surface Layer: 2mm Heterogeneous Vinyl surface layer
 - 4. Base Layer: 5mm Vulcanized Composition Rubber base layer
 - 5. Roll: 7mm (0.28") x 72" (1.83m) x 30 LF (9.14m)
- B. SV-2 and SV-3: Nora by Interface Noraplan Environcare Sheet
 - 1. Color: TBD
 - 2. Dimensions: 49.21' x 48" (15m x 1.22m)
 - 3. Overall Thickness: 0.08" (2.0 mm)
 - 4. *Integral Cove base as noted at locations shown on drawings.
 - 5. Contact: Nora Lewandowski nora.lewandowski@interface.com

2.03 RESILIENT BASE

- A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove.
 - 1. Height: 4 inch, or as noted.
 - 2. Thickness: 0.125 inch thick.
 - 3. Finish: Satin.
 - 4. Accessories: Premolded external corners and end stops.
 - 5. Manufacturers:
 - a. VB1 VINYL BASE 4" Cove Johnsonite
 - b. Substitutions: Not permitted.

2.04 ACCESSORIES

- A. Subfloor Filler: Cement based; type recommended by adhesive material manufacturer. No gypsum based fillers are allowed.
- B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
- C. Moldings, Transition and Edge Strips: Metal.
- D. Filler for Sheet Vinyl Coved Base: Plastic.
- E. Cap for Sheet Vinyl Coved Base: Vinyl

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive resilient flooring.
- C. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

- D. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
 - 1. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
- E. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
- F. Verify that concrete sub-floor surfaces are ready for resilient flooring installation by reviewing testing report for moisture emission rate and alkalinity; obtain instructions if test results are not within the following limits:
 - 1. Moisture emission rate: Not greater than 3 lb per 1000 sq ft per 24 hours when tested using calcium chloride moisture test kit for 72 hours, as per ASTM F 1869-03.
 - 2. Alkalinity: pH range of 5-9.
 - 3. Installer shall verify in writing that he has reviewed the test results and is satisfied that the installation can proceed.
- G. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

- A. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI (RWP).
- B. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
- C. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
 - 1. Sub-floor filler used on concrete slab on grade construction shall be cement based.
 - 2. No Gypsum based sub-floor fillers are allowed.
- D. Prohibit traffic until filler is fully cured.
- E. Clean substrate.

3.03 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions. Design intent is to match that of existing conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Fit joints and butt seams tightly.
- E. Set flooring in place, press with heavy roller to attain full adhesion.
- F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.
- G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
- H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.04 FLOORING

- A. Install in accordance with manufacturer's instructions.
- B. Spread only enough adhesive to permit installation of materials before initial set.
- C. Set flooring in place, press with heavy roller to attain full adhesion.
- D. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns carefully at seams.
- E. Seal seams by heat welding where indicated.

09 65 00 - 3

- F. Double cut sheet at seams.
- G. Lay flooring with tightly butted seams, without any seam sealer unless otherwise indicated.
- H. Finish seams in sheet vinyl by heat welding.
- I. Double cut sheet; provide heat welded seams.
- J. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.
- K. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated. Before installation of flooring, secure metal strips with stainless steel screws. Secure resilient strips by adhesive.
- L. Coved Base: Install as detailed on drawings, using coved base filler as backing at floor to wall junction. Extend sheet flooring vertically to height indicated, and cover top edge with metal cap strip and cap with a vinyl cap.
- M. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.05 RESILIENT BASE

- A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
- B. Install base on solid backing. Bond tightly to wall and floor surfaces.
- C. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.
- C. Clean, seal, and wax resilient flooring products in accordance with manufacturer's instructions.

3.07 PROTECTION

- A. Prohibit traffic on resilient flooring for 48 hours after installation.
- B. No thresholds in any floor areas. Coordinate with architect for further information.

END OF SECTION

SECTION 10 22 13 WIRE MESH PARTITIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wire mesh system for storage.
- B. Access door.

1.02 REFERENCE STANDARDS

- A. ASTM A36/A36M Standard Specification for Carbon Structural Steel; 2008.
- B. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2012.
- C. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a.
- D. ASTM A510/A510M Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel; 2011.
- E. ASTM A510M Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel (Metric); 2008.
- F. AWS D1.1/D1.1M Structural Welding Code Steel; American Welding Society; 2010.

1.03 DESIGN REQUIREMENTS

- A. Design partition system to provide for movement of components without damage, undue stress on fasteners or other detrimental effects, when subject to design loads.
- B. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for screen materials, finishes.
- C. Shop Drawings: Indicate plan and vertical dimensions, elevations, component details; head, jamb, and sill details; location of hardware. Provide component details, anchorage, and type and location of fasteners.

1.05 QUALITY ASSURANCE

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Wire Mesh Partitions:
 - 1. Acceptable Manufacturer: WireCrafters, LLC; 6208 Strawberry Lane, Louisville, KY 40214-2900. ASD. Tel: (800) 626-1816 or (502) 363-6691. Fax: (502) 361-3857. www.wirecrafters.com Email: info@wirecrafters.com
 - 2. Substitutions: Not permitted.

2.02 WIRE MESH PARTITIONS

- A. Wire Mesh Partitions: Factory-assembled modular sized panels stacked between post uprights, complete with all components, accessories, hardware, and fasteners; interchangeable units that allow expansion without waste of components.
 - 1. Style: Full mesh.
 - 2. Provide fixed sections unless otherwise indicated.
 - 3. Post Spacing: As required to suit dimensions, using manufacturer's standard panel widths.
 - 4. Panel frames bolted together and to posts.

- 5. Height: One 48 inch (1220 mm) high panels.
- 6. Finish: Electrostatic sprayed enamel, in manufacturer's standard color.
- B. Posts: Square 2 by 2 inch (50 by 50 mm) 14 gauge steel tube.
 - 1. Factory drilled holes for attaching panels.
 - 2. Welded-on base plate, 2 by 7 by 1/4 inch (50 by 178 by 6 mm), with factory drilled holes for floor anchors.
 - 3. Decorative plastic post cap.
 - 4. Corner Posts: Same as in-line posts.
 - 5. Provide appropriate hardware for attaching panels to posts and posts to floor.
- C. Wire Mesh Panels: Steel angle frames with wire mesh securely welded in place; frame joints coped at corner and securely welded; factory drilled holes for fasteners.
 - 1. Wire Mesh: 10 gauge, 0.135 inch (3.5 mm) steel wire woven into 2 by 1 inch (50 by 25 mm) rectangular mesh.
 - 2. Frame: 1-1/4 by 1-1/4 by 1/8 inch (32 by 32 by 3 mm) hot rolled steel angle.
 - 3. Vertical Panel Stiffeners: 1/4 by 3/4 inch (6 by 19 mm) steel bar securely welded to frame behind mesh on panels 4 feet (1219 mm) or wider.
- D. Door Sections: Matching wire mesh panels.
 - 1. Frame: 1-1/4 by 1-1/4 by 1/8 inch (32 by 32 by 3 mm) hot rolled steel angle.
 - 2. Stiffeners: Two horizontal and one vertical stiffener of 1/4 by 3/4 inch (6 by 19 mm) flat hot rolled steel bar.
 - 3. Hinged Doors:
 - a. Single Door Width: 36 inches (915 mm).
 - b. Door Opening Height: 87-1/4 inches (2216 mm), with transom of similar construction to full height of partition.
 - c. Hinges: 3 5-knuckle tight-pin butt hinges fastened to door panel and frame.
 - d. Closer: Commercial grade hydraulic door closer
 - e. Lever Handles: Storeroom function
 - f. Electric Strike

2.07 FABRICATION

- A. Fit and assemble in largest practical sections for delivery to site, ready for installation.
- B. Make exposed joints flush or tight.
- C. Provide components required for anchorage to adjacent construction.
- D. Fabricate wall panels as shown on drawings to go from floor to precast concrete ceiling at 9'-4" high.
- E. Fabricate door for hinged operation.

2.08 FINISHES

- A. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- B. Shop Finished Surfaces: One coat electrostatic sprayed enamel.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install items plumb and level, accurately fitted, free from distortion or defects.

3.02 ADJUSTING

A. Adjust hinged doors to achieve free movement.

3.03 CLEANING

A. Remove temporary protection to prefinished surfaces.

END OF SECTION

SECTION 10 28 00 TOILET ACCESSORIES - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Accessories for toilet rooms, showers, and utility rooms.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 Rough Carpentry: Related work.
- B. Section 06 41 00 Architectural Wood Casework: Mop holder for casework, see drawings.

1.03 REFERENCE STANDARDS

- A. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2012.
- B. ASTM A269 Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2010.
- C. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2011.
- D. ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2010.
- E. ASTM B456 Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium; 2011e1.
- F. ASTM C1036 Standard Specification for Flat Glass; 2011e1.
- G. ASTM C1503 Standard Specification for Silvered Flat Glass Mirror; 2008.
- H. ASTM F2285 Standard Consumer Safety Performance Specification for Diaper Changing Tables for Commercial Use; 2004 (Reapproved 2010).
- I. GSA CID A-A-3002 Mirrors, Glass; U.S. General Services Administration; 1996.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on accessories describing size, finish, details of function, attachment methods.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Products listed are made by Bobrick.
- B. Other Acceptable Manufacturers:
 - 1. A & J Washroom Accessories Inc: www.ajwashroom.com.
 - 2. American Specialties, Inc: www.americanspecialties.com.
 - 3. Bradley Corporation: www.bradleycorp.com.
 - 4. Substitutions: Section 01 60 00 Product Requirements.

2.02 MATERIALS

- A. Accessories General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
 - 1. Grind welded joints smooth.
 - 2. Fabricate units made of metal sheet of seamless sheets, with flat surfaces.
- B. Keys: Provide 2 keys for each accessory to Owner; master key all lockable accessories.

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- C. Stainless Steel Sheet: ASTM A666, Type 304.
- D. Stainless Steel Tubing: ASTM A269, Type 304 or 316.
- E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
- F. Mirror Glass: Float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
- G. Adhesive: Contact type, waterproof.
- H. Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof, security type.
- I. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

- A. Stainless Steel: No. 4 satin brushed finish, unless otherwise noted.
- B. Chrome/Nickel Plating: ASTM B456, SC 2, satin finish, unless otherwise noted.
- C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
- D. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.
- E. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
- F. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

- A. Paper Towel Dispenser: Folded paper type, stainless steel, surface-mounted, with viewing slots on sides as refill indicator and tumbler lock.
 - 1. Capacity: 400-C Fold minimum.
 - 2. Product: B-262 manufactured by Bobrick.
- B. Soap Dispenser: Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gage refill indicator, tumbler lock.
 - 1. Minimum Capacity: 40 ounces.
 - 2. Product: B-2111 manufactured by Bobrick.
- C. Grab Bars: Stainless steel, non-slip grasping surface finish.
 - 1. Standard Duty Grab Bars:
 - a. Push/Pull Point Load: 250 pound-force, minimum.
 - b. Dimensions: 1-1/2 inch outside diameter, minimum 0.05 inch wall thickness,
 - concealed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar. c. Finish: Non-slip grasping surface.
 - d. Length and Configuration: As indicated on drawings.
 - e. Products:
 - 1) B-6806 manufactured by Bobrick.
- D. Robe Hook: Heavy-duty stainless steel, single-prong, rectangular-shaped bracket and backplate for concealed attachment, satin finish.
 - 1. Product: B-76717 by Bobrick.

2.06 UTILITY ROOM ACCESSORIES

- A. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch (1.3 mm) thick stainless steel, Type 304, with 1/2 inch (12 mm) returned edges, 0.06 inch (1.6 mm) steel wall brackets.
 - 1. Drying rod: Stainless steel, 1/4 inch (6 mm) diameter.
 - 2. Hooks: 2, 0.06 inch (1.6 mm) stainless steel rag hooks at shelf front.
 - 3. Mop/broom holders: 3 spring-loaded rubber cam holders at shelf front.
 - 4. Length: 30 inches.

22003 - Woodrow Wilson Keeble Memorial Health Care Center USP Compliance IHS # HHSI102201800141 5. Product: B-224 manufactured by Bobrick.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights and Locations: As required by accessibility regulations, as indicated on drawings.

3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION

SECTION 10 51 00

LOCKERS - REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Locker units with hinged doors.
- B. Metal filler panels.

1.02 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; 2011.

1.03 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on locker types, sizes and accessories.
- C. Shop Drawings: Indicate locker plan layout, numbering plan.
- D. Samples: Submit two samples 3 x 6 inches (75 x 150 mm) in size, of each color scheduled; applied to specified base metal.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces from damage.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Lockers:
 - 1. Lyon Workspace Products; Product Standard Quiet Lockers: www.lyonworkspace.com.
 - 2. Penco Products, Inc; Product Guardian: www.pencoproducts.com.
 - 3. Republic Storage Systems Co; Product Quiet Lockers: www.republicstorage.com.
 - 4. List Industries, Inc.; Product Whisper Quiet Premier Locker.
 - 5. Art Metal Products; Product Artisan Silent Lockers.
 - 6. Hadrian; Product Emperor.
 - 7. Hallowell; Product Silent KD Lockers.
 - 8. Substitutions: See Section 01 60 00 Product Requirements.

2.02 MATERIALS

- A. Sheet Steel: ASTM A653/A653M SS Grade 33/230, with G60/Z180 coating, stretcher leveled; to the following minimum thicknesses:
 - 1. Body and Shelf: 24 gage, 0.024 inch
 - 2. Door Outer Face: 16 gage
 - 3. Door Frame: 16 gage
 - 4. Hinges: 14 gage, 0.075 inch
 - 5. Base: 20 gage, 0.036 inch
 - 6. Trim: 20 gage, 0.036 inch
- B. Accessories for Each Locker: one double prong ceiling hook, three single prong wall hooks, and shelf.
- C. Locker Benches: Stationary type; bench top of laminated maple species wood, stained, sealedand varnished; pedestals of chrome steel, 18 inches high.

2.03 LOCKER UNITS

- A. Width: 12 inches
- B. Depth: 12 inches
- C. Height: 60 inches
- D. Configuration: two tier.

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- E. Mounting: Surface mounted.
- F. Base: Metal base.
- G. Top: sloped metal with closures.
- H. Locking: Recessed Handle Equipped for padlock hasps.
- I. Ventilation Method: Door louvers.
- J. Class: Quiet.
- K. Locker Body: Formed and flanged; with steel stiffener ribs; electric spot welded.
- L. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
- M. Locking device supplied by others.
- N. Number Plates: Provide oval shaped aluminum plates. Form numbers of block font style, in contrasting color.
- O. Provide ventilation openings at top and bottom of each locker.
- P. Form recess for operating handle and locking device.
- Q. Finish edges smooth without burrs.
- R. Fabricate metal tops and closure pieces.

2.04 FINISHING

- A. Clean, degrease, and neutralize metal; prime and finish with one coat of baked enamel.
- B. Paint locker units 1 color, as selected.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install lockers plumb and square.
- C. Place and secure on prepared base.
- D. Bolt adjoining locker units together to provide rigid installation.
- E. Install end panels and filler panels.
- F. Install accessories.
- G. Replace components that do not operate smoothly.

3.02 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION

IHS WOODROW WILSON PHARMACY USP RED

PROJECT NUMBER: 022003.00

AMERICANS WITH DISABILITIES ACT ADA ADI AFF AHU ALT ALUM APPROX ARCH B.O. / BO **B.SPLASH** BLDG BLKG BRG C-TOP CLG CLR CMU COL CONC CONT DISP DN DWG ELEC FO EQUIP / EQPT. EXST / EX. / EXIST. EXT F.V. FDN FRP FUR GB GLAZ GYP. BD / G.BD / GBD GYPSUM BOARD HM HT INSUL INT

ADJUSTABLE ABOVE FINISHED FLOOR AIR HANDLING UNIT ALTERNATE ALUMINUM APPROXIMATE ARCHITECT BOTTOM OF BACKSPLASH BUILDING BLOCKING BEARING COUNTERTOP CORNER GUARD CONTROL JOINT CENTERLINE CEILING CLEAR(ANCE) CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINOUS **CERAMIC / PORCELAIN TILE** DEEP DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DOWN DRAWING EACH EXPANSION JOINT ELECTRICAL EQUAL EQUIPMENT EXISTING EXTERIOR FIRE TREATED FIELD VERIFY FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FLOOR FIBERGLASS REINFORCED PANEL FURRING GRAB BAR GLAZING HIGH HANDICAPPED HOLLOW METAL HEIGHT INSULATION INTERIOR LAMINATE LUXURY VINYL TILE

MECH MECHANICAL MIN MINIMUM MISC MISCELLANEOUS МО

ABBREVIATIONS

MTL

NA

NIC

NOM

NTS

0C

OH

P.T.

PC

PNT

PTD

QTY

RCP

REINF

REQD

RTU

RWL

S.SPLASH

SACT

SCHED

SD

SF

SIM

SND

SPEC

SSM

STL

SV

T.O.

TBB

TPD

TRTD

TYP

UNC

VB

VCT

VIF

VW

W/C

WD

WRE

STRUCT

SS

SEAL

REF

PREFIN

PLAM / P.LAM.

PLY / PLYWD

MASONRY OPENING METAL NOT APPLICABLE NOT IN CONTRACT

NOMINAL NOT TO SCALE

ON CENTER OVERHEAD

PRESSURE TREATED PRECAST PLATE PLASTIC LAMINATE PLYWOOD PAINT PREFINISHED PAPER TOWEL DISPENSER

QUARRY TILE QUANTITY

REFLECTED CEILING PLAN REFRIGERATOR REINFORCED REQUIRED ROOF TOP UNIT (MECH.)

SIDESPLASH SUSPENDED ACOUSTICAL CEILING TILE SCHEDULE SOAP DISPENSER SEALANT (SEALED) SQUARE FOOT (FEET) SIMILAR SANITARY NAPKIN DISPOSAL SPECIFICATION

TOP OF

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE VERIFY IN FIELD VINYL WALL COVERING

WIDE WITH WITHOUT WOOD

NUMBER (OR POUND)

AND

- CONDITIONS, DISCREPANCIES, ERRORS, OR INCONSISTENCIES.
- DURING THE COURSE OF THE PROJECT.
- STANDARD OR BETTER.
- A CHANGE IN THE SCOPE OF WORK.
- DISCOVERED.
- 8



MATERIALS

IAM

I VT

MATL

MAX

COI	MPACT FILL/SAND
POI	ROUS FILL/GRAVEL
МО	RTAR/PLASTER
FAC	E BRICK
СМ	U

STUD WALL/METAL

MATERIAL

MAXIMUM

GRAVEL TER CONCRETE

RIGID INSULATION BATT INSULATION **GYPSUM BOARD** PLYWOOD CONT. ROUGH WOOD WOOD BLOCKING FINISHED WOOD

- RAIN WATER LEADER
- STAINLESS STEEL SOLID SURFACE MATERIAL STEEL STRUCTURAL CONSULTANT SHEET VINYL

TILE BACKER BOARD TOILET PAPER DISPENSER TREATED TYPICAL

VINYL BASE

WEATHER RESISTIVE BARRIER

100 LAKE TRAVERSE DRIVE SISSETON, SD 57262

IHS PROJECT # HHSI102201800141

ARCHITECTURAL GENERAL NOTES

General Notes apply to all drawing sheets. Review the Construction Documents prior to start of construction. Notify Architect upon encountering any unforeseen

Work shall be done in accordance with all rules and regulations of all applicable safety and building codes. The General CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS

The General Contractor shall take precautions and be responsible for the safety of all building occupants from construction PROCEDURES DURING CONSTRUCTION TO MINIMIZE DISTURBANCES TO ADJACENT SPACES AND /OR STRUCTURES AND THEIR OCCUPANTS, PROPERTY, PUBLIC THOROUGHFARES, ETC. MAINTAIN ALL REQUIRED EXITS DURING CONSTRUCTION.

All materials and systems shall be installed as per manufacturer's specifications and all construction shall be of industry

Do not scale drawings. Verify all dimensions in the field for accuracy prior to construction. No extra charge or compensation SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO

In the event of conflict between data shown on drawings and data shown in the Specification, the Work of greater quality or QUANTITY SHALL BE PROVIDED, IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION, AND NO CHANGE IN THE CONTRACT SUM WILL BE PERMITTED. DETAIL DRAWINGS TAKE PRECEDENT OVER DRAWINGS OF LARGER SCOPE. NOTIFY ARCHITECT IF AT ANY TIME AN ERROR OR DISCREPANCY IS

IMMEDIATELY NOTIFY ARCHITECT OF ANY LONG LEAD ITEMS THAT WILL AFFECT THE COMPLETION DATE

9. ALL WOOD IN CONTACT WITH CONCRETE OR CONCRETE BLOCK TO BE PRESSURE TREATED - TYPICAL.

.0. Provide metal backing and / or treated wood blocking for all wall mounted equipment (grab bars, toilet room accessories, T mounts, headwalls, equipment rails, etc.) Verify height and length with actual equipment.

11. PATCH ALL DISTURBED FIREPROOFING AS REQUIRED TO MAINTAIN RATING. REPAIR AND INSTALL ALL FIREPROOFING AS REQUIRED BY CODE. FIREPROOF ANY NEW PENETRATIONS REQUIRED BY THE WORK. REFER TO CODE SUMMARY FOR RATINGS.

12. All exposed metal to receive paint unless otherwise noted

13. ALL ADJACENT DISSIMILAR MATERIALS TO RECEIVE CAULKING, INCLUDING EQUIPMENT MOUNTED TO WALLS

GRAPHIC SYMBOLS MATCHLINE IDENTIFICATION BREAKLINE







 \square









TO REMAIN

WALLS SHADED GRAY INDICATE EXISTING TO REMAIN



= = = = =









REPRESENTS EXISTING DOOR TO BE REMOVED

NOTE IDENTIFICATION

(LEADER OPTIONAL)

-DETAIL

-SHEET

NUMBER

AREA TO BE

DASHED LINES INDICATE WALLS & ITEMS TO BE REMOVED

Project Team

<u>OWNER</u>

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Contact: Jay Hruby, PE JHRUBY@EDI-DOLEJS.CO EMAIL:

LOCATION MAP

\star Star Indicates Project Location





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)-Genei 60.1	RAL SHEETS	SISSETON	, SD 57	262
50.1 51.1	LIFE SAFETY PLAN & SUMMARY		•	
-Archi	TECTURAL			
1.1	DEMO PLAN - PHASE 1	project #: <u>02</u>	2003.00	
1.2	DEMO PLAN - PHASE 1-B DEMO PLAN - PHASE 2	date: <u>9/</u>	10/2024 11:	17:54 AM
12.1	FLOOR PLAN - PHASE 1	drawn by: <u>Au</u>		
2.2	FLOOR PLAN - PHASE 1-B FLOOR PLAN - PHASE 2	checked by: <u>CH</u>	LCKER	
3.1	RCP - PHASE 1 AND PHASE 1B	.114	STERED A	RC _A
3.2 4.1	RCP - PHASE 2 Schedules and Types	REC	REG. NO	
7.1	INTERIOR ELEVATIONS		TI IPNIE	Remain
8.1	DETAILS		OUTH DAY	OTA
-Месн	ANICAL			111111111111
<u>ИО.1</u> И1.1	MECHANICAL TITLE SHEET FLOOR PLAN - PHASE 1 - MECHANICAL DEMOLITION	nnintad		
۸1.2	FLOOR PLAN - PHASE 1 MECHANICAL DEMOLITION	name: <u>Ryan T</u>	urner, AIA, <i>i</i>	ACHA, EDAC
Л1.3 Л2.1	FLOOR PLAN - PHASE 2 - MECHANICAL DEMOLITION FLOOR PLAN - PHASE 1 - FIRE PROTECTION	reg. #: 14817	/2024	
M2.2	FLOOR PLAN - PHASE 1 - FIRE PROTECTION	sign date: 01/12	/2024	
И2.3 И3.1	FLOOR PLAN - PHASE 2 - FIRE PROTECTION FLOOR PLAN - PHASE 1 - PLUMBING			
۸3.2	UNDERFLOOR PLAN - PHASE 2 - PLUMBING			
<u>ИЗ.3</u> ИЗ.4	FLOOR PLAN - PHASE 2 - PLUMBING PLUMBING RISER DIAGRAMS			
Λ4.1	FLOOR PLAN - PHASE 1 - PIPING			
Λ4.2 Λ4.3	FLOOR PLAN - PHASE 1 - PIPING FLOOR PLAN - PHASE 2 - PIPING			
M4.9 M5.1	FLOOR PLAN - PHASE 1 - HVAC			
И5.2 И5 З	FLOOR PLAN - PHASE 1 - HVAC			
N6.1	MECHANICAL SCHEDULES	revision /		
M7.1	MECHANICAL DETAILS	issue Adendum	no. 1	<i>date</i> 24/09/10
-ELECT				
0.1	ELECTRICAL TITLE SHEET FLOOR PLAN - PHASE 1 - ELECTRICAL DEMOLITION			
1.2	FLOOR PLAN - PHASE 1 - ELECTRICAL DEMOLITION			
1.3	FLOOR PLAN - PHASE 2 - ELECTRICAL DEMOLITION			
2.1 2.2	FLOOR PLAN - PHASE 1 - LIGHTING FLOOR PLAN - PHASE 1 - LIGHTING			
2.3	FLOOR PLAN - PHASE 2 - LIGHTING			
.3.0 3.1	FIRST FLOOR - POWER & SYSTEMS FLOOR PLAN - PHASE 1 - POWER & SYSTEMS			
3.2	FLOOR PLAN - PHASE 1 - POWER & SYSTEMS			
3.3 4.1	FLOOR PLAN - PHASE 2 - POWER & SYSTEMS Schedules - Electrical			
4.2	Schedules - Electrical			
4.3 5.1	SCHEDULES - ELECTRICAL DETAILS - ELECTRICAL			
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ARCHITECT: PREPARED E CODE(S) US	BY: ED:	DSGW AF Name Internat NFPA 10	rchitect Tional Bi 1 Life Sa	s Jilding fety Cc	CODE, DDE 201	2021 Ed 12 Editio	ITION N	NON	SPII FIRE A SEPARATE SEPARATE	PROJECT TYP NKLER SYSTEN LARM SYSTEN D OCCUPANC D OCCUPANC	E: 1: 1: Y: Y:		REMODEL YES YES N/A N/A
ALLOWABLI	E AREA C/	ALCULAT	ONS										
OCCUPANCY AREA	OCCUPANCY TYPE(S)	CONSTRUCTION TYPE	SPRINKLE CLASS (NS/S1/SM)	ALLOWABLE HT. (FT) (TABLE 504.3)	ACTUAL HEIGHT (FT)	ALLOW. STORIES ABOVE GRADE (TABLE 504.4)	ACTUAL STORIES ABOVE GRADE (S _A)	ACTUAL SF	TABULAR SF (Ar - TABLE 506.2)	ALLOW. AREA (NS - TABLE 506.2)	FRONTAGE INCREASE %	FRONTAGE INCREASE SF (I ₅) (SECTION 506.3)	ALLOW. AREA (A.)
В	В	IIB	S-1	75	XX	4	1	85,730	92,000	23,000	75%	17,250	109,250
FIRE RESIST	TANCE RA	TINGS (T	ABLE 60	1)									
BEARING W, BEARING W, NONBEARIN NONBEARIN FLOOR CON ROOF CONS	ALLS - EXT ALLS - INT IG WALLS IG WALLS STRUCTIC TRUCTION	TERIOR TERIOR - EXTERIO - INTERIO N N	0 0 0R 0 0R 0 0 0	HR. HR. HR. HR. HR. HR.									
MEANS OF	EGRESS (CH. 10)						>					
<u>OCCUPANI</u>	<u>LOAD (SE</u>	<u>C 1004)</u>		<u>t</u>	GRESS	<u>S WIDTH (</u>	<u>SEC 10</u>	<u>05)</u>	 -	NUMBER OF E	XITS (SE	<u>C 1006)</u>	
OCCUPANT	LOAD:	572			EXIT WIDTH REQ'D: 11 EXIT WIDTH PROVIDED: 61			115" 612"	REQUIRED: PROVIDED:				3 8
EXIT TRAVEL	DISTANC	E (SEC 1	017)							CORRIDORS (S	SEC 102	0)	
OCCUPANCY:BFIRE RATING (HR):0MAX. TRAVEL DISTANCE (FT):300MIN. WIDTH (INCHES):44"MAX. DEAD END DISTANCE (FT):50'							0 44" 50'						







<u>_____</u>



Demo General Notes

DESCRIPTION

Demolition notes and plans are provided as a guide only. Contractor to verify existing conditions and EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION TO ACCOMMODATE NEW CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ASPECTS OF DEMOLITION AND RECONSTRUCTION. CONTRACTOR TO COORDINATE NEW WORK PLAN DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED, WHETHER INDICATED ON DRAWINGS OR NOT.

DEMOLITION NOTES WITHOUT LEADERS INDICATE THAT THE NOTE APPLIES TO THE ENTIRE ROOM. 4. CONTRACTORS SHALL COORDINATE ALL DEMOLITION WORK PHASING AND SEQUENCING WITH OWNER PRIOR TO START OF CONSTRUCTION.

VERIFY EXISTING WALL TYPE AT WALL INFILL OR WALL EXTENSION AREAS. IF EXISTING WALL TYPE DOES NOT MATCH THE CALLED OUT WALL TYPE, INFILL OR EXTEND TO MATCH EXISTING WALL TYPE INSTEAD.

6. |Verify existing wall materials to be removed (gypsum board, stud, cmu, brick, etc.). 7. Provide transition strip at areas of new flooring meeting existing flooring and at new door openings in EXISTING WALLS. PATCH FLOOR AS REQUIRED.

8. Prep floors as needed for new finishes.

9. Remove existing wall mounted items such as grab bars, mirrors, paper towel dispensers, toilet paper dispensers, soap dispensers, toilet partitions, etc in demolished areas. Patch existing walls as required. 10. Patch subfloor, walls, & ceilings disturbed by demolition. Patch to match existing finishes as required. 11. Remove all finishes, adhesives, or other materials that conflict with new finishes scheduled in existing or

12. VERIFY ANY ITEMS TO BE RETAINED FOR OWNERS USE PRIOR TO REMOVAL.

13. PROVIDE PROTECTION AND BE RESPONSIBLE FOR OWNER'S EQUIPMENT, FURNITURE AND ANY EXISTING FINISHES TO REMAIN AND REPAIR OR REPLACE ANY DAMAGED AREAS AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE cleaned at the completion of construction. Document any existing conditions or damages prior to the start OF CONSTRUCTION.

Demo Plan Notes

C1 DEMO & REMOVE EXISTING CASEWORK INCLUDING ANY UPPER OR LOWER CABINETS AND SHELVES, COUNTER, PLUMBING FIXTURES AND WALL MOUNTED ACCESSORIES

REMOVE AND RELOCATE EXISTING OPEN TALL STOR CABINETS TO TEMP PHARMACY

C3 REMOVE EXISTING VIAL DRAWER STORAGE CABINETS AND RELOCATE TO TEMP PHARMACY D1 DEMO & REMOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE; INFILL W/WALL TYPE TO MATCH

D2 DEMO & REMOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE (INCLUDING GLAZING SYSTEM IF APPLICABLE) D3 DEMO & REMOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE. REPLACE W/NEW SIMILAR SIZED DOOR, FRAME & HARDWARE; VERIFY SIZE

D5 DEMO & REMOVE EXISTING EXTERIOR DOOR, FRAME, & HARDWARE INCLUDING GLAZING SYSTEM IF APPLICABLE; INFILL W/WALL TYPE TO MATCH

D6 DEMO & REMOVE EXISTING EXTERIOR OVERHEAD DOOR, TRACK, OPENER, & HARDWARE; INFILL W/WALL TYPE TO

DEMO & REMOVE EXISTING CARPET FLOORING, AND BASE; PREP FLOOR FOR NEW FINISHES F2 DEMO & REMOVE EXISTING ACT CEILING

F3 DEMO & REMOVE EXISTING VCT FLOORING, AND BASE; PREP FLOOR FOR NEW FINISHES

G1 DEMO & REMOVE EXISTING EXTERIOR WINDOW, FRAME, & HARDWARE; INFILL W/WALL TYPE TO MATCH

G2 REMOVE EXISTING GLAZING AND REPLACE WITH BALLISTIC GLASS AS SPECIFIED R1 DEMO & REMOVE EXISTING GYPSUM BOARD SOFFIT

W1 DEMO & REMOVE EXISTING INTERIOR STUD WALL

W2 DEMO & REMOVE PORTION OF EXISTING STUD WALL TO CREATE NEW DOOR OPENING, PATCH FLOOR AS REQ'D W3 DEMO & REMOVE PORTION OF EXISTING STUD WALL TO CREATE NEW WINDOW OPENING.

W4 DEMO & REMOVE PORTION OF EXISTING MASONRY WALL TO CREATE NEW WINDOW OPENIN

DEMO & REMOVE EXISTING HIGH DENSITY STORAGE SHELVING

Z2 REMOVE & SALVAGE EXISTING HIGH DENSITY STORAGE SHELVING FOR RELOCATION TO TEMP PHARMACY Z3 CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION AND CALIBRATING EQUIPMENT. RELO CATE TO TEMP PHARMACY THEN TO PHASE 2 PHARMACY

REMOVE AND RELOCATE EXISTING METAL FILE CABINETS TO TEMP PHARMACY

Z5 CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION OF SCRIPT MONITOR. RELOCATE TO TEMP PHARMACY WAITING THEN TO PHASE 2 PHARMACY WAITING

Z6 DEMO & REMOVE EXISTING BOLLARDS, PATCH PAVEMENT TO MATCH EXISTING

Z7 | DEMO & REMOVE EXISTING TRENCH DRAIN, PATCH CONCRETE TO MATCH EXISTING Z8 REMOVE AND RELOCATE EXISTING FILLMASTER DISPENING UNIT AND FILTRATION SYSTEM TO TEMP PHARMACY

Z9 REMOVE AND RELOCATE EXISTING FIRE EXTINGUISHER CABINET TO PHARMACY PHASE 2



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IHS WOODROW WILSON PHARMACY USP REDESIGN

100 Lake Traverse Drive SISSETON, SD 57262

> project #: <u>022003.00</u> date: <u>9/10/2024 11:17:37 AM</u>

drawn by: <u>AUTHOR</u>

checked by: CHECKER



name: Ryan Turner, AIA, ACHA, EDAC reg. #: ___14817 sign date: 01/12/2024





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1.	DEMOLITION EXAMINE DRA CONSTRUCTIO
2.	Contractor coordinate indicated o
3.	DEMOLITION
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21 72	
Z2 Z3	CONTRACTOR
74	REMOVE AND
Z5	CONTRACTOR PHARMACY W
Z6	DEMO & REM
Z7	DEMO & REM
Z8	REMOVE AND PHASE 1
70	

Demo General Notes

Description

N NOTES AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND RAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION TO ACCOMMODATE NEW ION.

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- YPE, INFILL OR EXTEND TO MATCH EXISTING WALL TYPE INSTEAD. TING WALL MATERIALS TO BE REMOVED (GYPSUM BOARD, STUD, CMU, BRICK, ETC.).
- ANSITION STRIP AT AREAS OF NEW FLOORING MEETING EXISTING FLOORING AND AT NEW DOOR OPENINGS IN ALLS. PATCH FLOOR AS REQUIRED.
- RS AS NEEDED FOR NEW FINISHES.
- STING WALL MOUNTED ITEMS SUCH AS GRAB BARS, MIRRORS, PAPER TOWEL DISPENSERS, TOILET PAPER , soap dispensers, toilet partitions, etc in demolished areas. Patch existing walls as required. FLOOR, WALLS, & CEILINGS DISTURBED BY DEMOLITION. PATCH TO MATCH EXISTING FINISHES AS REQUIRED. L FINISHES, ADHESIVES, OR OTHER MATERIALS THAT CONFLICT WITH NEW FINISHES SCHEDULED IN EXISTING OR ODELED SPACES.
- ITEMS TO BE RETAINED FOR OWNERS USE PRIOR TO REMOVAL.
- ROTECTION AND BE RESPONSIBLE FOR OWNER'S EQUIPMENT, FURNITURE AND ANY EXISTING FINISHES TO REMAIN R OR REPLACE ANY DAMAGED AREAS AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE THE COMPLETION OF CONSTRUCTION. DOCUMENT ANY EXISTING CONDITIONS OR DAMAGES PRIOR TO THE START JCTION.

Demo Plan Notes

MOVE EXISTING CASEWORK INCLUDING ANY UPPER OR LOWER CABINETS AND SHELVES, COUNTER, FIXTURES AND WALL MOUNTED ACCESSORIES

- ID RELOCATE EXISTING OPEN TALL STOR CABINETS TO TEMP PHARMACY
- ISTING VIAL DRAWER STORAGE CABINETS AND RELOCATE TO TEMP PHARMACY MOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE; INFILL W/WALL TYPE TO MATCH
- MOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE (INCLUDING GLAZING SYSTEM IF APPLICABLE) MOVE EXISTING INTERIOR DOOR, FRAME & HARDWARE. REPLACE W/NEW SIMILAR SIZED DOOR, FRAME & ; VERIFY SIZE
- MOVE EXISTING EXTERIOR DOOR, FRAME, & HARDWARE INCLUDING GLAZING SYSTEM IF APPLICABLE; ALL TYPE TO MATCH
- MOVE EXISTING EXTERIOR OVERHEAD DOOR, TRACK, OPENER, & HARDWARE; INFILL W/WALL TYPE TO MOVE EXISTING CARPET FLOORING, AND BASE; PREP FLOOR FOR NEW FINISHES
- MOVE EXISTING ACT CEILING
- MOVE EXISTING VCT FLOORING, AND BASE; PREP FLOOR FOR NEW FINISHES
- MOVE EXISTING EXTERIOR WINDOW, FRAME, & HARDWARE; INFILL W/WALL TYPE TO MATCH STING GLAZING AND REPLACE WITH BALLISTIC GLASS AS SPECIFIED
- MOVE EXISTING GYPSUM BOARD SOFFIT
- MOVE EXISTING INTERIOR STUD WALL
- MOVE PORTION OF EXISTING STUD WALL TO CREATE NEW DOOR OPENING, PATCH FLOOR AS REQ'D MOVE PORTION OF EXISTING STUD WALL TO CREATE NEW WINDOW OPENING. MOVE PORTION OF EXISTING MASONRY WALL TO CREATE NEW WINDOW OPENIN
- MOVE EXISTING HIGH DENSITY STORAGE SHELVING
- SALVAGE EXISTING HIGH DENSITY STORAGE SHELVING FOR RELOCATION TO TEMP PHARMACY DR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION AND CALIBRATING EQUIPMENT. RELO CATE TO MACY THEN TO PHASE 2 PHARMACY
- ID RELOCATE EXISTING METAL FILE CABINETS TO TEMP PHARMACY
- OR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION OF SCRIPT MONITOR. RELOCATE TO TEMP WAITING THEN TO PHASE 2 PHARMACY WAITING
- MOVE EXISTING BOLLARDS, PATCH PAVEMENT TO MATCH EXISTING
- MOVE EXISTING TRENCH DRAIN, PATCH CONCRETE TO MATCH EXISTING ID RELOCATE EXISTING FILLMASTER DISPENING UNIT AND FILTRATION SYSTEM TO TEMP PHARMACY
- Z9 REMOVE AND RELOCATE EXISTING FIRE EXTINGUISHER CABINET TO PHARMACY PHASE 2

ARCHITECTURE enriching communities DULUTH I TWIN CITIES I VIRGINIA www.dsgw.com IHS WOODROW WILSON PHARMACY USP REDESIGN

100 Lake Traverse Drive SISSETON, SD 57262

roject #:	022003.00
date:	9/10/2024 11:17:38 AM

drawn by: <u>AUTHOR</u> checked by: CHECKER



printed name: <u>Ryan Turner, AIA, ACHA, EDAC</u> reg. #: <u>14</u>817 sign date: 01/12/2024







Demo General Notes
DESCRIPTION
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W3 DEMO & REMOVE PORTION OF EXISTING STUD WALL TO CREATE NEW WINDOW OPENING.

W4 DEMO & REMOVE PORTION OF EXISTING MASONRY WALL TO CREATE NEW WINDOW OPENIN

Z1 DEMO & REMOVE EXISTING HIGH DENSITY STORAGE SHELVING

Z2 REMOVE & SALVAGE EXISTING HIGH DENSITY STORAGE SHELVING FOR RELOCATION TO TEMP PHARMACY Z3 CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION AND CALIBRATING EQUIPMENT. RELO CATE TO TEMP PHARMACY THEN TO PHASE 2 PHARMACY

Z4 REMOVE AND RELOCATE EXISTING METAL FILE CABINETS TO TEMP PHARMACY Z5 CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR RELOCATION OF SCRIPT MONITOR. RELOCATE TO TEMP PHARMACY WAITING THEN TO PHASE 2 PHARMACY WAITING Z6 DEMO & REMOVE EXISTING BOLLARDS, PATCH PAVEMENT TO MATCH EXISTING

Z7 DEMO & REMOVE EXISTING TRENCH DRAIN, PATCH CONCRETE TO MATCH EXISTING

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100 Lake Traverse Drive SISSETON, SD 57262

project #: <u>022003.00</u> date: 9/10/2024 11:17:39 AM

drawn by: <u>AUTHOR</u>

checked by: <u>CHECKER</u>



printed name: <u>Ryan Turner, AIA, ACHA, EDAC</u> reg. #: <u>14817</u> sign date: <u>01/12/2024</u>





	Floor Plan General Notes
NO.	DESCRIPTION
A	INTERIOR DIMENSIONS ARE TO FINISHED FACE OF STUD WALL, FACE OF MASONRY WALLS, TO CENTERLINE OF COLUMNS OR TO OTHER GRID POINTS UNLESS OTHERWISE NOTED. DIMENSIONS LABELED AS CLEAR OR CLR INDICATE MINIMUM DISTANCE TO FINISHED FACE OF WALLS. DIMENSIONS ARE TO FINISHED FACE OF EXISTING WALLS IF APPLICABLE.
В	All interior door frames to be 4" from adjacent wall or centered between walls unless otherwise noted.
C	Furniture & equipment shown is for reference only and is not included in the contract.
D	Coordinate size and location of all duct and shaft openings in walls and floors with MER consultant.
E	Fire ratings are indicated on the Life Safety Plan.
	Floor Plan Notes
1	EXISTING RELOCTED LATERAL FILES
2	RELOCATED SCRIPTPRO, CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR MOVING AND CALIBRATING EQUIPMENT
3	FURNITURE (NIC)
4	WIRE MESH PARTITION AND DOOR, SEE SECTION 10 22 13
5	NEW 30"X60" SIT-STAND DESK (NIC), TO BE RELOCATED TO PHASE 2
6	RELOCATED SCRIPTPRO NOTIFICATION MONITOR, CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR MOVING AND CALIBRATING EQUIPMENT
7	EXISTING RELOCTED FILLMASTER DISPENSING UNIT AND FILTRATION SYSTEM
8	EXISTING RELOCATED HIGH DENSITY SHELVING UNIT



			R	Room Fin	IISH SCHE	dule PH/	ASE	
				R	OOM FINISH	SCHEDULE		
			FLO	OR	WALL FIN			
REV.	NO.	NAME	FINISH	BASE	NORTH	EAST	S	
	101	FLEX SPACE	VCT-1	RB	PNT-2	PNT-2		
	102	CORRIDOR	CPT-1	RB	PNT-2	PNT-2		
	103	WORK ROOM	CPT-1	RB	PNT-2	PNT-2		
	104	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	105	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	106	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	107	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	108	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	109	OFFICE	CPT-2	RB	PNT-2	PNT-2		
	110	OFFICE	CPT-2	RB	PNT-2	PNT-2		





Floor Plan General Notes DESCRIPTION NO. A INTERIOR DIMENSIONS ARE TO FINISHED FACE OF STUD WALL, FACE OF MASONRY WALLS, TO centerline of columns or to other grid points unless otherwise noted. Dimensions LABELED AS CLEAR OR CLR INDICATE MINIMUM DISTANCE TO FINISHED FACE OF WALLS. DIMENSIONS ARE TO FINISHED FACE OF EXISTING WALLS IF APPLICABLE. B All interior door frames to be 4" from adjacent wall or centered between walls unless OTHERWISE NOTED. FURNITURE & EQUIPMENT SHOWN IS FOR REFERENCE ONLY AND IS NOT INCLUDED IN THE CONTRACT. COORDINATE SIZE AND LOCATION OF ALL DUCT AND SHAFT OPENINGS IN WALLS AND FLOORS WITH MEP CONSULTANT. E FIRE RATINGS ARE INDICATED ON THE LIFE SAFETY PLAN. Floor Plan Notes 1 EXISTING RELOCTED LATERAL FILES 2 RELOCATED SCRIPTPRO, CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR MOVING AND CALIBRATING EQUIPMENT 3 FURNITURE (NIC) WIRE MESH PARTITION AND DOOR, SEE SECTION 10 22 13 NEW 30"X60" SIT-STAND DESK (NIC), TO BE RELOCATED TO PHASE 2 RELOCATED SCRIPTPRO NOTIFICATION MONITOR, CONTRACTOR TO SUBCONTRACT WITH SCRIPTPRO FOR MOVING AND CALIBRATING EQUIPMENT EXISTING RELOCTED FILLMASTER DISPENSING UNIT AND FILTRATION SYSTEM EXISTING RELOCATED HIGH DENSITY SHELVING UNIT 9 EXISTING RELOCATED FIRE EXTINGUISHER CABINET

GOOSENECK PADDLES

-LOW WALL RETURN

—EO AT 48"

IHS WOODROW WILSON PHARMACY USP REDESIGN

ARCHITECTURE

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100 Lake Traverse Drive SISSETON, SD 57262

> project #: <u>022003.00</u> date: 9/10/2024 11:17:42 AM

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printed name: RYAN TURNER, AIA, ACHA, EDAC reg. #: <u>14</u>817 sign date: 01/12/2024

revision / date issue 24/09/10 Adendum











R AND FRAME SCHEDULE								
	FR/	AME						
		DETAIL		FIRE	HDW.			
ΈE	HEAD	JAMB	SILL	LABEL	NO.	NOTES		
I-F1	1/A4.1	2/A4.1			02			
I-F1	1/A4.1	2/A4.1			08			
-F1	1/A4.1	2/A4.1			04			
-F1	1/A4.1	2/A4.1			04			
I-F1	1/A4.1	2/A4.1			04			
I-F1	1/A4.1	2/A4.1			01			
I-F1	1/A4.1	2/A4.1			01			
I-F1	1/A4.1	2/A4.1			02			
I-F1	1/A4.1	2/A4.1			05			
\-F1	1/A4.1	2/A4.1			02			
I-F1	1/A4.1	2/A4.1			03			
I-F1	1/A4.1	2/A4.1			09			
I-F1	1/A4.1	2/A4.1			02			
I-F1	1/A4.1	2/A4.1			06			
I-F1	1/A4.1	2/A4.1			07			
I-F1	1/A4.1	2/A4.1			07			

R AN	D FRAME SC	HEDULE				
	FRA	AME				
		DETAIL		FIRE	HDW.	
ΈE	HEAD	JAMB	SILL	LABEL	NO.	NOTES
1-F1	1/A4.1	2/A4.1			2	
1-F1	1/A4.1	2/A4.1			2	
1-F1	1/A4.1	2/A4.1			2	
1-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			10	
1-F1	1/A4.1	2/A4.1			02	
N-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			04	
1-F1	1/A4.1	2/A4.1			04	
		2/2/1				

	ROOM FINISH SCHEDULE									
			FLOOR							
REV.	NO.	NAME	FINISH	BASE	NORTH	EAST	SOUTH	WEST	NOTES	
	N11	HSKPG							NO WORK	
	N12	TOILET							NO WORK	
	RX101	STAFF ENTRY	SV-2	RB	PNT-3	PNT-3	PNT-3	PNT-3		
	RX102	PHARMACY	SV-1	RB	PNT-1	PNT-1	PNT-1	PNT-1		
	RX103	OFFICE	VCT-1	RB	PNT-2	PNT-2	PNT-2	PNT-2		
	RX104	OFFICE	VCT-1	RB	PNT-2	PNT-2	PNT-2	PNT-2		
	RX105	OFFICE	VCT-1	RB	PNT-2	PNT-2	PNT-2	PNT-2		
	RX106	ANTEROOM	SV-2/SV-3	SV-2/SV-3	EPOXY PNT	EPOXY PNT	EPOXY PNT	EPOXY PNT		
	RX107	POSITIVE BUFFER ROOM	SV-3	SV-3	EPOXY PNT	EPOXY PNT	EPOXY PNT	EPOXY PNT		
	RX108	COUNS.	SV-2	SV-2	PNT-3	PNT-3	PNT-3	PNT-3		
	RX109	CONTROLLED SUBSTANCES	SV-1	RB	PNT-1	PNT-1	PNT-1	PNT-1		
	RX110	COUNS.	SV-2	RB	PNT-3	PNT-3	PNT-3	PNT-3		
	RX111	WAITING	VCT-1	RB	PNT-2	PNT-2	PNT-2	PNT-2		
	RX112	COUNS.	SV-2	RB	PNT-3	PNT-3	PNT-3	PNT-3		
	RX113	RECIEVING/ HZD STOR	SV-2	SV-2	PNT-1	PNT-1	PNT-1	PNT-1		

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



ROOM FINISH SCHEDULE







Q 1









3/4" ADJUSTABLE PLAM SHELVES BASE AS SCHEDULED

MILLWORK SECTION

(15) 3/4" = 1'-0"







ARCHITECTURE enriching communities DULUTH I TWIN CITIES I VIRGINIA www.dsgw.com IHS WOODROW WILSON PHARMACY USP REDESIGN 100 Lake Traverse Drive SISSETON, SD 57262 project #: <u>022003.00</u> date: <u>9/10/2024 11:17:</u>50 AM drawn by: <u>AUTHOR</u> checked by: <u>CHECKER</u> "TERED AR 14817---RYAN TURNER printed name: RYAN TURNER, AIA, ACHA, EDAC reg. #: <u>1481</u>7 sign date: 01/12/2024 revision / date issue no. Adendum 24/09/10 1 sheet title: **DETAILS** sheet number: A8.1

M

MECHANICAL/ELECTRICAL ADDENDUM #1

DIVISION 21 – FIRE PROTECTION

CHANGES TO THE PROJECT MANUAL:

None

CHANGES TO THE FIRE PROTECTION DRAWINGS:

None.

DIVISION 22 – PLUMBING

CHANGES TO THE PROJECT MANUAL:

1. Specification section 22 40 00- Plumbing Fixtures, has been updated. Refer to attached section for additional information.

CHANGES TO THE PLUMBING DRAWINGS:

1. All the drawings have been updated and new pages have been added to the package to include the phasing. Please refer to updated drawings for additional information.

<u>APPROVED MANUFACTURER SUBSTITUTIONS:</u> Naming below does not guarantee approval, substitutions must meet requirements of the specifications and plans.

Section: Item: Manufacturer:

DIVISION 23 – HEATING, VENTILATION, AND AIR CONDITIONING

CHANGES TO THE PROJECT MANUAL:

- 1. TOC has been updated:
 - a. Refer to attached TOC for additional information.
- 2. Specification section 23 34 23 HVAC Power Ventilators:
 - a. Laboratory Exhaust Fan has been updated.
 - b. Refer to attached section for additional information.
- 3. Specification section 23 82 36 Finned-Tube Radiation Heaters, has been added.
 - a. Refer to attached section for additional information.

CHANGES TO THE MECHANICAL DRAWINGS:

1. All the drawings have been updated and new pages have been added to the package to include the phasing. Please refer to updated drawings for additional information.

<u>APPROVED MANUFACTURER SUBSTITUTIONS:</u> Naming below does not guarantee approval, substitutions must meet requirements of the specifications and plans.

Section: Item: Manufacturer:

CHANGES TO THE PROJECT MANUAL:

- 1. Specification section 27 0010 GENERAL PROVISIONS, has been updated. Refer to attached section for additional information.
- 2. Specification section 27 0500 COMMON WORK RESULTS FOR COMMUNICATIONS, has been updated. Refer to attached section for additional information.
- 3. Specification section 27 1513 COPPER HORIZONTAL CABLING, has been updated. Refer to attached section for additional information.
- 4. Specification section 27 1543 FACEPLATES AND CONNECTORS, has been updated. Refer to attached section for additional information.

CHANGES TO THE ELECTRICAL DRAWINGS:

1. All the drawings have been updated and new pages have been added to the package to include the phasing. Please refer to updated drawings for additional information.

<u>APPROVED MANUFACTURER SUBSTITUTIONS:</u> Naming below does not guarantee approval, substitutions must meet requirements of the specifications and plans.

Section: Item:

Manufacturer:

END OF MECHANICAL/ELECTRICAL ADDENDUM #1

SECTION 224000 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Protective shielding guards.
 - 2. Fixture supports.
 - 3. Faucets.
 - 4. Sinks.
- B. Related Sections include the following:
 - 1. Division 22 Section "Emergency Plumbing Fixtures."

1.3 DEFINITIONS

- A. Retain abbreviations and terms that remain after this Section has been edited.
- B. ABS: Acrylonitrile-butadiene-styrene plastic.
- C. Accessible Fixture: Plumbing fixture that can be approached, entered, and used by people with disabilities.
- D. FRP: Fiberglass-reinforced plastic.
- E. PMMA: Polymethyl methacrylate (acrylic) plastic.
- F. PVC: Polyvinyl chloride plastic.
- G. Solid Surface: Nonporous, homogeneous, cast-polymer-plastic material with heat-, impact-, scratch-, and stain-resistance qualities.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Diagram power, signal, and control wiring.
- C. Operation and maintenance data.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for plumbing fixtures for people with disabilities.
- C. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.
- D. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.
- E. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.
- F. Comply with the following applicable standards and other requirements specified for plumbing fixtures:
 - 1. Enameled, Cast-Iron Fixtures: ASME A112.19.1M.
 - 2. Plastic Laundry Trays: ANSI Z124.6.
 - 3. Plastic Shower Enclosures: ANSI Z124.2.
 - 4. Plastic Sinks: ANSI Z124.6.
 - 5. Porcelain-Enameled, Formed-Steel Fixtures: ASME A112.19.4M.
 - 6. Slip-Resistant Bathing Surfaces: ASTM F 462.
 - 7. Solid-Surface-Material Lavatories and Sinks: ANSI/ICPA SS-1.
 - 8. Stainless-Steel Residential Sinks: ASME A112.19.3.
 - 9. Vitreous-China Fixtures: ASME A112.19.2M.
 - 10. Water-Closet, Flush Valve, Tank Trim: ASME A112.19.5.
 - 11. Water-Closet, Flushometer Tank Trim: ASSE 1037.
- G. Comply with the following applicable standards and other requirements specified for lavatory and sink faucets:
 - 1. Backflow Protection Devices for Faucets with Side Spray: ASME A112.18.3M.
 - 2. Backflow Protection Devices for Faucets with Hose-Thread Outlet: ASME A112.18.3M.
 - 3. Diverter Valves for Faucets with Hose Spray: ASSE 1025.
 - 4. Faucets: ASME A112.18.1.
 - 5. Hose-Connection Vacuum Breakers: ASSE 1011.
 - 6. Hose-Coupling Threads: ASME B1.20.7.
 - 7. Integral, Atmospheric Vacuum Breakers: ASSE 1001.
 - 8. NSF Potable-Water Materials: NSF 61.
 - 9. Pipe Threads: ASME B1.20.1.
 - 10. Sensor-Actuated Faucets and Electrical Devices: UL 1951.
 - 11. Supply Fittings: ASME A112.18.1.
 - 12. Brass Waste Fittings: ASME A112.18.2.
- H. Comply with the following applicable standards and other requirements specified for bathtub/shower and shower faucets:
 - 1. Backflow Protection Devices for Hand-Held Showers: ASME A112.18.3M.

- 2. Combination, Pressure-Equalizing and Thermostatic-Control Antiscald Faucets: ASSE 1016.
- 3. Faucets: ASME A112.18.1.
- 4. Hand-Held Showers: ASSE 1014.
- 5. High-Temperature-Limit Controls for Thermal-Shock-Preventing Devices: ASTM F 445.
- 6. Hose-Coupling Threads: ASME B1.20.7.
- 7. Manual-Control Antiscald Faucets: ASTM F 444.
- 8. Pipe Threads: ASME B1.20.1.
- 9. Pressure-Equalizing-Control Antiscald Faucets: ASTM F 444 and ASSE 1016.
- 10. Sensor-Actuated Faucets and Electrical Devices: UL 1951.
- 11. Thermostatic-Control Antiscald Faucets: ASTM F 444 and ASSE 1016.
- I. Comply with the following applicable standards and other requirements specified for miscellaneous fittings:
 - 1. Atmospheric Vacuum Breakers: ASSE 1001.
 - 2. Brass and Copper Supplies: ASME A112.18.1.
 - 3. Dishwasher Air-Gap Fittings: ASSE 1021.
 - 4. Manual-Operation Flushometers: ASSE 1037.
 - 5. Plastic Tubular Fittings: ASTM F 409.
 - 6. Brass Waste Fittings: ASME A112.18.2.
 - 7. Sensor-Operation Flushometers: ASSE 1037 and UL 1951.
- J. Comply with the following applicable standards and other requirements specified for miscellaneous components:
 - 1. Disposers: ASSE 1008 and UL 430.
 - 2. Dishwasher Air-Gap Fittings: ASSE 1021.
 - 3. Flexible Water Connectors: ASME A112.18.6.
 - 4. Grab Bars: ASTM F 446.
 - 5. Hose-Coupling Threads: ASME B1.20.7.
 - 6. Hot-Water Dispensers: ASSE 1023 and UL 499.
 - 7. Off-Floor Fixture Supports: ASME A112.6.1M.
 - 8. Pipe Threads: ASME B1.20.1.
 - 9. Plastic Toilet Seats: ANSI Z124.5.
 - 10. Supply and Drain Protective Shielding Guards: ICC A117.1.

PART 2 - PRODUCTS

2.1 PROTECTIVE SHIELDING GUARDS

- A. Protective Shielding Pipe Covers,:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Plumberex Specialty Products Inc.
 - b. TRUEBRO, Inc.
 - c. Zurn Plumbing Products Group; Tubular Brass Plumbing Products Operation.

2. Description: Manufactured plastic wraps for covering plumbing fixture hot- and coldwater supplies and trap and drain piping. Comply with Americans with Disabilities Act (ADA) requirements.

2.2 FIXTURE SUPPORTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Josam Company.
 - 2. MIFAB Manufacturing Inc.
 - 3. Smith, Jay R. Mfg. Co.
 - 4. Tyler Pipe; Wade Div.
 - 5. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
 - 6. Zurn Plumbing Products Group; Specification Drainage Operation.
- B. Lavatory Supports:
 - 1. Description: Type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet.
 - 2. Accessible-Fixture Support: Include rectangular steel uprights.

2.3 FAUCETS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Chicago Faucets.
 - 2. Symmons Industries, Inc.
 - 3. Delta Faucet Company Commercial.
 - 4. Zurn Plumbing Products Group; Commercial Brass Operation/

2.4 SINKS

- A. **<u>SK-1</u>**: ADA Compliant, counter-mounting, single bowl, stainless-steel fixture.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay Model LRAD2022 or an approved equal by one of the following:
 - a. Eljer.
 - b. Kohler Co.
 - c. American Standard Companies, Inc.
 - d. Just Manufacturing Company.
 - e. Moen, Inc.
 - f. Franke
 - 2. Description: ADA compliant, single-bowl, counter-mounting, self-rimming, stainless-steel sink.
 - a. Overall Dimensions: 19 1/2" x 22". Depth 6-1/2".
 - b. Inside Bowl Dimensions: 16" x 16". Depth 6-1/2".

- c. Metal Thickness: 18 gauge stainless steel.
- d. Bowl:
 - 1) Drain: 3-1/2-inch.
 - a) Location: Centered in bowl.
- e. Faucet Hole Punching: Compatible with faucet.
- f. **Faucet**: Chicago Faucet Model **1100-GN8AE3-317AB**, deck mounted faucet with **8-1/4-inch rigid/swing gooseneck spout** and 4-inch hot and cold water metal vandal proof wristblade handles, vandal proof **2.2** gpm aerator, polished chrome plated brass construction.
- g. Scald Protection: Provide thermostatic mixing valve <u>TMV-</u>1. Refer to specification section 22 1119 for requirements.
- h. Supplies: NPS 1/2 chrome-plated copper with loose key stops.
- i. Drain Piping: NPS 1-1/2 chrome-plated, cast-brass P-trap; 0.045-inch-thick tubular brass waste to wall; and wall escutcheon(s).
- j. Protective Shielding Guard(s): Yes.
- B. **<u>SK-2</u>**: ADA Compliant, counter-mounting, single bowl, stainless-steel fixture.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay Lustertone Model LRAD3122 or an approved equal by one of the following:
 - a. Eljer.
 - b. Kohler Co.
 - c. American Standard Companies, Inc.
 - d. Just Manufacturing Company.
 - e. Moen, Inc.
 - f. Franke
 - 2. Description: ADA compliant, double-bowl, counter-mounting, self-rimming, stainlesssteel sink.
 - a. Overall Dimensions: 31" x 22". Depth 6-1/2".
 - b. Inside Bowl Dimensions: 28" x 16". Depth 6-1/2".
 - c. Metal Thickness: 18 gauge stainless steel.
 - d. Bowl:
 - 1) Drain: 3-1/2-inch.
 - a) Location: Off-centered in bowl.
 - e. Faucet Hole Punching: Compatible with faucet.
 - f. Sink Faucet: Chicago Faucet model 1100-GN8AE3-369AB, deck mounted faucet with 8-inch spout and 2-3/8-inch hot and cold water metal lever handles, 2.2 gpm vandal proof aerator, polished chrome plated brass, 8-inch by 13.5-inch high gooseneck spout.
 - g. Scald Protection: Provide thermostatic mixing valve <u>TMV-1</u>. Refer to specification section 22 1119 for requirements.
 - h. Supplies: NPS 1/2 chrome-plated copper with loose key stops.
 - i. Drain Piping: NPS 1-1/2 chrome-plated, cast-brass P-trap; 0.045-inch-thick tubular brass waste to wall; and wall escutcheon(s).
 - j. Protective Shielding Guard(s): Yes.

- C. <u>SK-3</u>: Wall-Hung, Single Bowl, Surgeon Scrub Sink, Stainless Steel.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay Model EWSF130261 or an approved equal by one of the following:
 - a. Eljer.
 - b. Kohler Co.
 - c. American Standard Companies, Inc.
 - d. Just Manufacturing Company.
 - e. Moen, Inc.
 - f. Franke
 - 2. Description: Stainless steel scrub-up sink.
 - a. Overall Dimensions: 30" x 23". Depth 26".
 - b. Metal Thickness: 16 gauge stainless steel.
 - c. Bowl:
 - 1) Drain: 3-1/2-inch.
 - a) Location: Rear center in bowl.
- D. Faucet Hole Punching: Compatible with faucet.
 - a. **Faucet**: Elkay Model LK406LGN05T4, 4" centerset with exposed deck laminar flow faucet with 5" Gooseneck spout 4" wristblade handles chrome. Faucet has a flow rate of 1.5 gpm, and is made of chrome-plated brass material, with a quarter turn ceramic disc valve. Faucet requires 2 faucet holes.
 - b. Scald Protection: Provide thermostatic mixing valve <u>TMV-</u>1. Refer to specification section 22 1119 for requirements.
 - c. Supplies: Valve Connection is ½" NPT Female.
 - d. Drain Piping: NPS 1-1/2 chrome-plated, cast-brass P-trap; 0.045-inch-thick tubular brass waste to wall; and wall escutcheon(s).
 - e. Protective Shielding Guard(s): Yes.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before plumbing fixture installation.
- B. Examine walls, floors, cabinets, and counters for suitable conditions where fixtures will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PLUMBING FIXTURE INSTALLATION - COMMON REQUIREMENTS

A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.

- B. Install plumbing fixture level and plumb according to roughing-in drawings.
- C. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
 - 1. Exception: Use ball, gate, or globe valves if supply stops are not specified with fixture. Comply with valve requirements specified in Section 220523 "General-Duty Valves for Plumbing Piping."
- D. Install traps on fixture outlets.
 - 1. Exception: Omit trap on fixtures with integral traps.
 - 2. Exception: Omit trap on indirect wastes unless otherwise indicated.
- E. Joint Sealing:
 - 1. Seal joints between plumbing fixture and walls, floors, cabinets, and counters using sanitary-type, one-part, mildew-resistant silicone sealant.
 - 2. Match sealant color to plumbing fixture.
 - 3. Comply with sealant requirements specified in Section "Joint Sealants."

3.3 LAVATORIES, SINKS, AND COMMERCIAL SINKS INSTALLATION

- A. Install supports, affixed to building substrate, for wall-mounted fixtures.
- B. Install counter-mounting fixtures in and attached to casework.
- C. Install accessible wall-mounted fixtures at handicapped/elderly mounting height for people with disabilities or the elderly, according to ANSI A117.1.
- D. Set floor-mounted sinks in leveling bed of cement grout.
- E. Install water-supply flow-control fittings with specified flow rates in fixture supplies at stop valves.
- F. Install faucet-spout flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
- G. Install fresh batteries in battery-powered, electronic-sensor mechanisms.
- H. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220500 "Common Work Results for Plumbing."
- I. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible lavatories and sinks.

3.4 CONNECTIONS

A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

3.5 FIELD QUALITY CONTROL

- A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.
- B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.
- C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.
- D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.
- E. Clean fixtures, remove stains and labels prior to acceptance.
- F. Install fresh batteries in sensor-operated mechanisms.

3.6 PROTECTION

- A. Provide protective covering for installed fixtures and fittings.
- B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 224000

SECTION 233423 - HVAC POWER VENTILATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. In-line centrifugal fans.
 - 2. Laboratory exhaust fans.
 - 3. Roof Curbs.

1.3 SUBMITTALS

- A. Product Data: Include rated capacities, furnished specialties, and accessories for each type of product indicated and include the following:
 - 1. Certified fan performance curves with system operating conditions indicated.
 - 2. Certified fan sound-power ratings.
 - 3. Motor ratings and electrical characteristics, plus motor and electrical accessories.
 - 4. Material thickness and finishes, including color charts.
 - 5. Fan speed controllers.
 - 6. Roof curbs.
- B. Field quality-control test reports.
- C. Operation and Maintenance Data: For power ventilators to include in emergency, operation, and maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. AMCA Compliance: Products shall comply with performance requirements and shall be licensed to use the AMCA-Certified Ratings Seal.
- C. NEMA Compliance: Motors and electrical accessories shall comply with NEMA standards.
- D. UL Standard: Power ventilators shall comply with UL 705.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver fans as factory-assembled unit, to the extent allowable by shipping limitations, with protective crating and covering.
- B. Disassemble and reassemble units, as required for moving to final location, according to manufacturer's written instructions.
- C. Lift and support units with manufacturer's designated lifting or supporting points.

1.6 COORDINATION

- A. Coordinate size and location of structural-steel support members.
- B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 07 Sections.

PART 2 - PRODUCTS

2.1 IN-LINE CENTRIFUGAL FANS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Greenheck.
 - 2. Carnes Company.
 - 3. Loren Cook Company.
- B. Housing: Minimum 18 gauge galvanized steel housing with bolted construction and integral duct collars. Provide access doors for two sides.
- C. Direct-Drive Units: Motor mounted in airstream, factory wired to disconnect switch located on outside of fan housing.
- D. Fan Wheels: Aluminum, airfoil blades welded to aluminum hub.
- E. Fan Motor: Permanently lubricated electronically commutated rated for continuous duty with speed controller. Minimum efficiency: 85%.
- F. Accessories:
 - 1. Variable-Speed Controller: Solid-state control to reduce speed from 100 percent down to 20 percent.
 - 2. Companion Flanges: For inlet and outlet duct connections.
 - 3. Fan Guards: 1/2- by 1/2-inch mesh of galvanized steel in removable frame. Provide guard for inlet or outlet for units not connected to ductwork.
2.2 LABORATORY EXHAUST FANS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Greenheck.
 - 2. Loren Cook Company.
- B. Description: Direct drive tubular centrifugal fans consisting of housing, wheel, fan shaft, bearings, motor and disconnect switch, drive assembly, curb base, discharge cone and accessories.
- C. Housing: Minimum 12 gauge steel construction with adjustable motor plate, integral housing drain and bolted, gasketed access door. Fans shall incorporate a high velocity conical discharge nozzle supplied by the fan manufacturer. Steel components shall be coated with a 5 mil electrostatically applied baked epoxy powder coating with ultraviolet protective topcoat.
- D. Fan Wheels: Backward inclined non-overloading steel centrifugal with blades continuously welded to the backplate. Fan impeller hub shall be keyed to a stainless steel drive shaft. Fan wheels shall be coated with a 5 mil electrostatically applied baked epoxy powder coating. Fan impeller shall be statically and dynamically balanced in accordance with AMCA Standard 204-96.
- E. Motors and Drives: Motor shall be premium efficiency, NEMA frame, totally enclosed fan cooled (TEFC) with 1.15 service factor. Fan bearings shall be heavy duty re-greaseable ball or roller type in cast iron pillow block housings selected for minimum L50 life of not less than 200,000 hours. Bearings shall have extended stainless steel lube lines with Zerk fittings. Drives shall be selected for minimum 1.5 service factor utilizing precision machined cast iron sheaves keyed to the wheel and motor shafts.
- F. Accessories:
 - 1. Fan isolation box with gravity isolation damper. Isolation box shall be coated with a 5 mil electrostatically applied baked epoxy powder coating with ultraviolet protective topcoat. Isolation damper shall have extruded aluminum frame, damper blades and linkage.
- G. Capacities and Characteristics: Refer to the schedule on the drawings.

2.3 ROOF CURBS

- A. Roof Curbs: Heavy duty steel with mitered and welded corners. Roof curbs shall be coated with a 5 mil electrostatically applied baked epoxy powder coating with ultraviolet protective topcoat. Roof curb shall be capable of supporting exhaust fan and discharge nozzle without the use of guy wires. Size as required to suit roof opening and fan base.
 - 1. Configuration: Self-flashing without a cant strip, with mounting flange.
 - 2. Overall Height: 12 inches.

2.4 MOTORS

A. Comply with requirements in Division 23 Section "Common Motor Requirements for HVAC Equipment."

2.5 SOURCE QUALITY CONTROL

- A. Sound-Power Level Ratings: Comply with AMCA 301, "Methods for Calculating Fan Sound Ratings from Laboratory Test Data." Factory test fans according to AMCA 300, "Reverberant Room Method for Sound Testing of Fans." Label fans with the AMCA-Certified Ratings Seal.
- B. Fan Performance Ratings: Establish flow rate, pressure, power, air density, speed of rotation, and efficiency by factory tests and ratings according to AMCA 210, "Laboratory Methods of Testing Fans for Rating."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install power ventilators level and plumb.
- B. Inline Fans: Suspend units from structure.
- C. Secure roof-mounting fans to roof curbs with cadmium-plated hardware.
- D. Install units with clearances for service and maintenance.
- E. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."
- F. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."
- G. Label units according to requirements specified in Division 23 Section "Identification for HVAC Piping and Equipment."

3.2 CONNECTIONS

- A. Duct installation and connection requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of ducts and duct accessories.
- B. Install ducts adjacent to power ventilators to allow service and maintenance.

3.3 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections and prepare test reports:
 - 1. Verify that shipping, blocking, and bracing are removed.

- 2. Verify that unit is secure on mountings and supporting devices and that connections to ducts and electrical components are complete. Verify that proper thermal-overload protection is installed in motors, starters, and disconnect switches.
- 3. Verify that cleaning and adjusting are complete.
- 4. Disconnect fan drive from motor, verify proper motor rotation direction, and verify fan wheel free rotation and smooth bearing operation. Reconnect fan drive system.
- 5. Verify lubrication for bearings and other moving parts.
- 6. Verify that manual and automatic volume control and fire and smoke dampers in connected ductwork systems are in fully open position.
- 7. Disable automatic temperature-control operators, energize motor and adjust fan to indicated rpm, and measure and record motor voltage and amperage.
- 8. Shut unit down and reconnect automatic temperature-control operators.
- 9. Remove and replace malfunctioning units and retest as specified above.
- B. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.4 ADJUSTING

- A. Refer to Division 23 Section "Testing, Adjusting, and Balancing for HVAC" for testing, adjusting, and balancing procedures.
- B. Adjust potentiometer as required to achieve design airflow.
- C. Adjust belt tension and align drive belt assemblies.
- D. Replace fan and motor pulleys as required to achieve design airflow.
- E. Lubricate bearings.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain power ventilators.
 - 1. Train Owner's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining equipment and schedules.

SECTION 23 8236 - FINNED-TUBE RADIATION HEATERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes electric radiation heaters.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include rated capacities, operating characteristics, furnished specialties, and accessories.
- B. Shop Drawings:
 - 1. Include plans, elevations, sections, and details.
 - 2. Include enclosure joints, corner pieces, access doors, and other accessories.
 - 3. Include diagrams for power, signal, and control wiring.
- C. Color Samples for Initial Selection: For finned-tube radiation heaters with factory-applied color finishes.
- D. Color Samples for Verification: For each type of exposed finish.

PART 2 - PRODUCTS

2.1 ELECTRIC BASEBOARD RADIATION HEATERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Berko.
 - 2. Indeeco.
 - 3. TPI Corporation.
 - 4. Qmark.
- B. Description: Factory-packaged units constructed according to UL 499, UL 1030, and UL 2021.

- 1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Heating Elements: Nickel-chromium-wire heating element enclosed in metallic sheath mechanically bonded to fins, with high-temperature cutout and sensor running the full length of the element. Element supports shall eliminate thermal expansion noise.
- D. Enclosures: Minimum 0.0329-inch-thick steel, removable front cover.
 - 1. Full-height back.
 - 2. End caps.
 - 3. Inside and outside corners.
 - 4. Finish: Baked-enamel finish in manufacturer's standard color as selected by Architect.
 - 5. Element Brackets: Primed and painted steel to support front panel and element.
- E. Unit Controls: Remote thermostat.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive finned-tube radiation heaters for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for electrical connections to verify actual locations before installation of finned-tube radiation heaters.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 BASEBOARD RADIATION HEATER INSTALLATION

- A. Install units level and plumb.
- B. Terminate enclosures with manufacturer's end caps except where enclosures are indicated to extend to adjoining walls.

3.3 CONNECTIONS

- A. Ground electric finned-tube radiation heaters according to Section 260526 "Grounding and Bonding for Electrical Systems."
- B. Connect wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

3.4 FIELD QUALITY CONTROL

- A. Perform the following field tests and inspections:
 - 1. Operational Test: After electrical circuitry has been energized, start units to confirm proper operation.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Units will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

SECTION 270010 - GENERAL PROVISIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section covers general installation practices are requirements for all work under Division 27.
- B. The General Conditions, Supplementary General Conditions, and Division 01 General Requirements apply to Division 27.
- C. The contractor shall adhere to local ordinances, laws, regulations, the National Electrical Code and OSHA Regulations.
- D. Raceways for Division 27 shall be furnished and installed by the Division 26 Contractor. All equipment, components, wiring and final terminations etc. shall be furnished and installed by Division 27.

1.2 DRAWINGS

- A. Communications floor plan drawings are too scale and are typically not dimensioned. The Contractor shall not scale drawings for equipment placement and clearances. Dimensions given on drawings shall always take precedence over scaled drawings.
- B. The Contractor shall field verify distances and equipment placements coordinating locations with other trades, construction managers, and general contractor prior to installation.
- C. Change orders requests for additional costs related to the contractors misunderstanding related to the amount of work involved and lack of knowledge related to the site conditions will not be allowed.

1.3 PERMITS, FEES AND INSPECTIONS

A. All permits, inspections, and licenses required for any communications system under the Division 27 specifications shall be the responsibility of the Contractor. The costs of all permits, fees, and inspections shall be included in the Contractor's bid.

1.4 CONTRACTOR QUALIFICATIONS

- A. The Contractor shall have at least five years experience in the installation of similar systems as specified herein and shall have completed at least two projects of similar size and scope within the last 24 months. The contract shall provide references upon request (including the project name, address, date of implementation, client name, title, telephone number, and project description).
- B. The Contractor bidding on communication systems specified herein shall be certified by the product manufacturer to install, service, and warranty the specified product prior to the time of

bid and throughout the duration of the installation; or, the bidding contractor shall utilize a subcontractor(s) certified by the product manufacturer to install, service, and warranty the specified product. Manufacturer certifications shall not be project specific and should be valid for any and all projects completed by the Contractor.

- C. The Contractor must maintain a Minnesota Wyoming low-voltage contractor's license as required by the Wyoming State Board of Electricity.
- D. The Contractor shall provide copies of certificates for proof of manufacturer's training, manufacturer's certified installer, authorized distributor in the shop drawing submittal and at the request of the engineer to verify compliance with specification prior to recommendations for awarding bid.

1.5 SUBMITTALS

- A. Submittal for bidding shall be as stated in the Bidding Requirements.
- B. Material lists, schedule of values, lists of subcontractors, and proof of contractor qualifications shall be provided to Engineer upon request and shall follow the guidelines as stated in the General Requirements (Division 01 of the specifications).
- C. Performance Bonds, Payment Bonds, and Insurance Certificates shall be submitted by the Contractor prior to execution of the contract; refer to General Requirements.
- D. Shop drawings shall be submitted as stated in the General Requirements (Division 01 of the specifications). In addition to items stated in the General Requirements, all communication system shop drawings shall included the following items:
 - 1. Manufacturer's data (specifications, "cut sheets")
 - 2. Detail drawing of any custom panels or jack plates
 - 3. Wiring diagrams for all installed cabling
 - 4. Equipment rack/cabinet layouts
 - 5. Proposed labeling schemes and labeling methods
 - 6. List of cabling distances (typical and maximum) for all structured cabling
 - 7. Equipment room floor plan layouts
 - 8. Copy of Contractors training and authorized installer certificates
 - 9. Copy of structured cabling extended warranty information

Submit shop drawings bound and labeling in accordance with specification section numbers. In addition, one paper copy of the submittal shall be sent directly to EDI.

- E. As-Built documentation requirements may be described in additional detail by other Division 27 specification sections. As-built documentation shall included the following items:
 - 1. A copy of the approved shop drawing submittal
 - 2. A complete list of all materials used on the project
 - 3. A copy of the Division 27 specifications (including addendum and change orders)
 - 4. Schematic drawings and block diagrams of components
 - 5. Floor plan drawings including devices locations and labeling
 - 6. Test results and output level readings (i.e., amplifier loads, RF tap reading)
 - 7. Warranties

Submit a minimum two complete copies of all as-built documentation (provide additional copies if more than two copies are required by General Requirements). As-built submittal shall be neatly bound, indexed, tabbed, and labeled.

F. Close-out documentation shall include all as-built documentation and additional close-out documents as required in the General Requirements.

1.6 MATERIALS AND EQUIPMENT

- A. All materials used on this project shall be new. Used and refurbished equipment is not permitted. Provide equipment to site in original packaging whenever practical.
- B. The contractor is responsible for scheduling all deliveries and providing proper receipt, handling, and storage of all materials. Protect all equipment from physical damages (dents, scratches, dust, water, paint, chemicals, and temperature extremes) and vandalism, or theft. The contractor shall replace any damages or stolen equipment. The contractor is responsible for all equipment until the final project acceptance by the Owner.
- C. All material and equipment used on the project shall be as specified. Approval for substitute material will be considered prior to bidding as described in the instructions to bidders. Applications for prior approval will be considered only from Contractors intending to bid on the project.

PART 2 - PRODUCTS

2.1 Not Used

PART 3 - EXECUTION

3.1 GENERAL

- A. All cable, equipment, and components shall be installed in accordance with manufacturer's written instructions, in compliance with NEC, and in accordance with industry standard practices.
- B. All equipment shall be installed in a neat, professional manner, always vertically plumb and securely fastened.
- C. Most pathways for the communications systems are provided by other trades and not part of the Division 27 work; however, the Division 27 communications contractor may be required to create some pathways. Holes in masonry shall be made with rotary drills; impact tools are not permitted. Never penetrate through structural members or architectural finishes without prior approval from the architect or engineer. All penetration work shall be patched, sealed, cleaned, and returned to original conditions. All penetration in fire rated walls and floors shall be sealed with approved fire barriers systems in accordance with manufacturer's instructions.
- D. This communications contractor is responsible for creating a waterproof seal in and around openings to the building exterior created by or used by the communications contractor. All

waterproof sealing materials shall comply with appropriate codes and shall be installed in accordance with manufacturer's instructions.

E. The communications contractor shall clean up all debris related to Division 27 work on a regular basis leaving the job site in a clean, safe condition.

3.2 FINAL ACCEPTANCE

- A. All project review reports ("Punch-Lists") submitted by the engineer shall be completed and signed by the Contractor prior to final project acceptance.
- B. The Contractor shall schedule and conduct a final project review meeting with the Owner and Engineer to discuss the following items:
 - 1. As-built drawings and documentation
 - 2. Test results
 - 3. Warranty and problem resolution procedures
 - 4. Special maintenance procedures
 - 5. Address any questions of the Owner and Engineer
- C. The Contractor shall complete all additional training for the Owner as specified in other Division 27 specification sections.

SECTION 270500 - COMMON WORK RESULTS FOR COMMUNICATIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section describes the overall work results relating all Division 27 section on the facility.
- B. Refer to other Division 27 sections for product information, installation practices, schedules, warranty, performance/testing requirements, and other systems information details.

1.2 DESCRIPTION OF WORK FOR STRUCTURED CABLING SYSTEMS

- A. Voice and data cabling system shall be complete, include all specified and ancillary components, be ready for use and installation of telephone and data equipment, and consist of the following criteria:
 - 1. For the voice horizontal cabling, One (1) Category 6A cables shall be installed from rack mounted patch panels in communication rooms to information outlet jacks as shown on the drawings. The Category 6A voice cabling shall be fully tested and documented and shall have a connectivity hardware manufacturer's quality and applications assurance warranty.
 - 2. For the data horizontal cabling, One (1) Category 6A cables shall be installed from rack mounted patch panels in communication rooms to information outlet jacks and wireless antenna locations as shown on the drawings. The Category 6A data cabling shall be fully tested and documented and shall have a connectivity hardware manufacturer's quality and applications assurance warranty.
 - 3. For the voice/data horizontal cabling, Two (2) Category 6A cables shall be installed from rack mounted patch panels in communication rooms to information outlet jack locations as shown on the drawings. The Category 6A data cabling shall be fully tested and documented and shall have a connectivity hardware manufacturer's quality and applications assurance warranty.
 - 4. For the wireless access point horizontal cabling, One (1) Category 6A cable shall be installed from rack mounted patch panels in communication rooms to each wireless antenna locations as shown on the drawings. At each exterior wireless access point location, provide a Transtector #1101-994 data line surge protection device bonded to building steel. The Category 6A data cabling shall be fully tested and documented and shall have a connectivity hardware manufacturer's quality and applications assurance warranty.
 - 5. The voice backbone cabling shall consist of Category 3 UTP multi-pair cables routed from the main equipment room to communication rooms in a star configuration as shown on the schematic (one-line) drawings. All cable pairs shall be terminated on rack mounted 110 blocks in telecommunication room, wall mounted 110 blocks in the DEMARC room, and shall be fully tested and documented.
 - 6. The data backbone cable shall consist of 50/125 multi-mode optical fiber cable main equipment room to communication rooms in a star configuration as shown on the schematic (one-line) drawings. All strands of the optical fiber cables shall be terminated in rack mounted enclosures with SC type connectors and shall be fully tested and documented.
 - 7. Patch cords and station cords shall be furnished to the Owner (for final installation by the Owner) with quantities, types, and lengths as specified herein in section 27 1619.

- B. Other structured cabling components including racks, cabinets, enclosures, accessories, cable pathways, and grounding system will consist of the following criteria:
 - 1. All racks, cabinets, enclosures, and accessories necessary for the structured cabling system shall be furnished and installed by the communications cabling contractor as specified herein and as shown on detail drawings.
 - 2. Major pathways for the structured cabling system including cable trays, conduits, backbones, and conduit sleeves (2" and larger) are specified in Division 26. Cable runway in communication rooms, J-hooks for locations where structured cabling leaves cable trays, and conduit sleeves (1½" and smaller) are specified in this section and shall be furnished and installed by the communications cabling contractor.
 - 3. The major components for the communications grounding and bonding system including grounding busbars in communication rooms, ground rods, and grounding conductors (larger than #2 AWG) are specified in Division 26 and schematic drawings. The communications cabling contractor shall furnishing and installing #2 AWG grounding conductors with required lugs and fasteners from all communications equipment and components to the communications grounding system.

PART 2 - PRODUCTS – Not Used (refer to other Division 27 sections).

PART 3 - EXECUTION – Not Used (refer to other Division 27 sections).

SECTION 271513 - COPPER HORIZONTAL CABLING

PART 1 - GENERAL

1.1 SUMMARY

- A. This section covers copper horizontal cabling utilized by all Division 27 systems and possibly other intelligent building systems specified by other Divisions.
- B. Quantities for all copper horizontal cabling shall be provided as required to complete cabling to all outlets as shown on the floor plans.
- C. Horizontal copper cabling are those cable routed from the termination blocks and patch panels in the communication rooms to the outlet locations at the workstations.

1.2 RELATED SECTIONS

- A. Sections 27 00 10 and 27 05 00 contain general installation practices relevant to the communications cabling systems.
- B. Section 27 01 00 contains important information regarding manufacturer's warranties for the voice and data cabling systems.
- C. Section 27 05 53 contains information regarding the labeling of horizontal cabling.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.
- B. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
- C. Grounding: Comply with TIA-607-B.

2.2 HORIZONAL VOICE & DATA CABLING

- A. Category 6 Cable shall meet the following criteria:
 - 1. Exceed TIA/EIA transmission performance requirements Category 6 cable at frequencies up to 250MHz.
 - 2. 100-ohm, 4-pair, 23 AWG solid bare copper conductor, unshielded twisted pair
 - 3. Standard: Comply with NEMA WC 66/ICEA S-116-732 and TIA-568-C.2 for Category 6 cables.
 - 4. Industry standard conductor insulation color coding (blue, orange, green, brown)
 - 5. Plenum rated, UL Listed type CMP marking on cable

- 6. Product identifications and cable distance markings at regular intervals on cable
- 7. ISO 9001 certified manufacturer
- 8. Transmission performance verified by UL
- 9. Normal product in inventory of local distributor
- 10. Basis of design: Leviton #LM-RDT-CAT6-UTP-CMP
- 11. Approved manufactures and product name/numbers: Leviton, Berk-Tek, Commscope, General, Superior Essex, Systimax
- B. Category 6A Cable shall meet the following criteria:
 - 1. Exceed TIA/EIA transmission performance requirements for Category 6A cable at frequencies up to 500MHz.
 - 2. 100-ohm, 4-pair, 23 AWG solid bare copper conductor, unshielded twisted pair
 - 3. Standard: Comply with TIA-568-C.2 for Category 6a cables.
 - 4. Standard conductor insulation color coding: (blue, orange, green, brown)
 - a. Data Blue.
 - b. CCTV/Security Yellow cable with Violet jacks.
 - c. Paging Dark Gray
 - d. BioMED Green (Pyxis, ScriptPRO).
 - e. WAP (Wifi) White
 - 5. Plenum rated, UL Listed type CMP marking on cable
 - 6. Product identifications and cable distance markings at regular intervals on cable
 - 7. ISO 9001 certified manufacturer
 - 8. Transmission performance verified by UL
 - 9. Normal product in inventory of local distributor
 - 10. Basis of design: Leviton #LM-RDT-CAT6A-UTP-CMP
 - 11. Approved manufactures and product name/numbers: Leviton, Berk-Tek, Commscope, General, Superior Essex, Systimax

PART 3 - EXECUTION

- 3.1 GENERAL
 - A. Refer to Sections 27 00 00 and 27 10 00 for all typical installation practices.
 - All horizontal cabling shall be labeled in accordance with labeling standards; refer to Section 27 05 53.

3.2 HORIZONTAL CABLING INSTALLATION PRACTICES

- A. The same manufacturer's product shall be utilized throughout the entire project for all voice and data horizontal cabling.
- B. All horizontal cables shall be terminated at both ends on faceplate jacks and patch panels. Any cables pulled for spare cables shall be neatly coiling in ceiling support system, clearly labeled are both ends, and identified on as-built drawings.

SECTION 271543 - FACEPLATES & CONNECTORS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section covers faceplates and connectors utilized for all Division 27 sections.
- B. Quantities for all communications faceplates and connectors shall be provided as required to terminate all outlet locations and cabling as shown on the floor plans.

1.2 RELATED SECTIONS

- A. Sections 27 00 10 and 27 05 00 contain general installation practices relevant to the communications cabling systems.
- B. Section 27 01 00 contains important information regarding manufacturer's warranties for the voice and data cabling systems.
- C. Section 27 05 53 contains information regarding the labeling of faceplates.

PART 2 - PRODUCTS

2.1 FACEPLATES

- A. Stainless-steel faceplates shall be utilized for communications cabling. Faceplates shall comply with the following requirements:
 - 1. Stainless-steel construction
 - 2. Labeling field with clear plastic cover for pre-printed labels or provide clear permanent polyester adhesive labels with black ink
 - 3. Snap-in flush fit for connector modules Accept up to 4 connectors in single-gang or up to 8 connectors in double-gang configurations.
 - 4. UL Listed
 - 5. Approved manufactures: Commscope, Leviton, Ortronics, Panduit, Siemon, Systimax and 4MP.
- B. Stainless-Steel Wall Phone Plate shall be utilized for all wall telephone outlet locations.
 - 1. Stainless-steel construction
 - 2. Accept Category 6A jack
 - 3. Single-gang
 - 4. Studs mounted in standard positions to accommodate any standard wall telephone
 - 5. UL Listed
 - 6. Approved manufactures: Commscope, Leviton, Ortronics, Panduit, Siemon, Systimax

2.2 CONNECTORS

- A. Category 6A Voice/Data Jack shall be utilized for voice/data cabling and shall comply with the following requirements:
 - 1. TIA/EIA Category 6 compliant
 - 2. 8-position/8-conductor modular connector
 - 3. Blue color for voice/data jacks.
 - 4. Flush design for snap-in flush fitting on faceplate
 - 5. Approved manufacturers: Commscope, Leviton, Ortronics, Panduit, Siemon, Systimax
- B. Category 6A Wireless Access Point Jack shall be utilized for voice/data cabling and shall comply with the following requirements:
 - 1. TIA/EIA Category 6A compliant
 - 2. 8-position/8-conductor modular connector
 - 3. Green color for wireless access point jacks.
 - 4. Flush design for snap-in flush fitting on faceplate
 - 5. Approved manufacturers: Commscope, Leviton, Ortronics, Panduit, Siemon, Systimax
- C. Blank Inserts shall be provided for all blank faceplate opening and shall comply with the following requirements:
 - 1. Gray in color
 - 2. Flush design for snap-in flush fitting on faceplate
 - 3. Approved manufacturers: Commscope, Leviton, Ortronics, Panduit, Siemon, Systimax

PART 3 - EXECUTION

3.1 GENERAL

- A. Refer to Sections 27 00 00 and 27 10 00 for all typical installation practices.
- B. All faceplates shall be labeled in accordance with labeling standards; refer to Section 27 05 53.
- C. Verify modular furniture outlet locations and modular furniture manufacturer products with Architect prior to ordering communications devices for modular furniture locations.

3.2 FACE PLATE LOCATIONS

A. See Appendix A in 26 27 26 for faceplate types and application.

3.3 FACEPLATE AND CONNECTOR INSTALLATION PRACTICES

A. All faceplates shall be installed vertically plumb. When faceplates allow for adjustments, the contractor shall always adjust plate vertically plumb. Where faceplates offer no adjustment (i.e., stainless steel), the contractor shall communicate to other trades the importance of installing back boxes vertically plumb and shall notify other trades of corrective actions necessary to repair severely out-of-plumb locations.

- B. Faceplates shall fit flush with no gaps to the installed surface.
- C. Faceplates shall be securely fastened. Screws shall be tight; however, not tightened to the point of deforming, bending, or cracking the faceplate.
- D. Any deformed, broken, bent, or crack faceplates for connector hardware shall be replaced.
- E. Faceplates installed in not secure areas may be installed with standard screw hardware. Faceplates installed in secure perimeter areas shall be installed with tamper-proof screws.
- F. All snap-in faceplate jacks, adapters, and blank inserts shall be flush with the faceplate so the devices are not pushed through faceplates with connection of cables. Defective or broken components shall be replaces.
- G. Excess cable shall not be coiled behind faceplates. Excess cable loop shall be pulled back into ceiling spaces.
- H. Any blank faceplate connector opening shall be filled with blank inserts.
- I. Category 6A jack shall be terminated with T568B the wiring scheme.

WOODROW WILSON KEEBLE MEMORIAL HEALTH CARE CENTER USP COMPLIANCE 100 LAKE TRAVERSE DRIVE

ACC

ACCU AFMS

AHU

AS

CRU

CUH CWP CHWP

DBP

DC DCP

CT

HVAC SYMBOLS	PLUMBING AND PIPING SYMB
HVAC SYMBOLS	PLUMBING AND PIPING SYMBO
SLOT LENGTH NUMBER OF SLOTS	STM STEAM CDR CONDENSATE RETURN CWV COMBINATION WASTE & VENT CA COMPRESSED AIR CD CONDENSATE DRAINAGE
EXISTING MECHANICAL EQUIPMENT XXX-X EXISTING MECHANICAL EQUIPMENT TAG (TYPICAL FOR ALL EXISTING TAGS) MECHANICAL EQUIPMENT FOR REFERENCE XXX-X MECHANICAL EQUIPMENT TAG (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)	CW DOMESTIC COLD WATER F-CW DOMESTIC COLD WATER-FILTERED HARD DOMESTIC COLD WATER-HARD SOFT DOMESTIC COLD WATER-SOFT HW DOMESTIC HOT WATER HW HW HW DOMESTIC HOT WATER 140° RHW DOMESTIC HOT WATER-CIRCULATIN RHW HOMESTIC HOT WATER-CIRCULATIN
CARBON DIOXIDE SENSOR CO2 TH TEMPERATURE & HUMIDITY SENSOR CARBON MONOXIDE SENSOR CO TS TEMPERATURE SENSOR NITROGEN DIOXIDE SENSOR NO2 T THERMOSTAT	GV GREASE VENT GW GREASE WASTE OV OIL VENT OW OIL WASTE PD PUMP DISCHARGE
HUMIDITY SENSOR HS SW MANUAL SWITCH HUMIDISTAT H S SENSOR	V SANITARY VENT W SANITARY SEWER SHWR SOLAR HOT WATER RETURN SHWS SOLAR HOT WATER SUPPLY RWL STORM DRAINAGE
Fire DAMPER SMOKE DAMPER MOTORIZED DAMPER MANUAL BALANCING DAMPER BD BACKDRAFT DAMPER FS COMBINATION FIRE/SMOKE DAMPER	ORWL STORM DRAINAGE-OVERFLOW PIPE DROP PIPE RISE PIPE TEE CAP 4" 4" 2" CAP PLUG REDUCING 45 DEGREE TEE 45 DEGREE TEE
FLOOR DRAIN FIXTURE DRAIN SIZE DRAIN TAG TYPE (SEE SCHEDULE) X" V UP THRU FLOOR 4" ORD-1	- ∅DOMESTIC WATER METER- ↓MOTORIZED CONT- ↓↓FLOW MEASURING AND BALANCING DEVICE- ↓THREE WAY MOTO CONTROL VALVE- ♀BALL VALVE- ↓PRESSURE REDUC B- ↓↓CHECK VALVEBSOLENOID VALVE- ↓↓THREE WAY VALVE- ↓BUTTERFLY VALVE

SISSETON, SD 57262 IHS PROJECT # GP19S1079C8

MECHANICAL DRAWINGS

PIPING SYMBOLS		MECHANICAL AE	BBRE	VIATIONS	GENER
PIPE SIZE TAG (DIAMETER) ABOVE GROUND PIPING PIPE SLOPE TAG BELOW GROUND PIPING PIPE INVERT ELEVATION TAG EXISTING PIPE TAG PIPING BEING DEMOLISHED CHILLED WATER RETURN CHILLED WATER SUPPLY	AD AFF AFUE AL AP ARCH AS ASC AV AW BFF BTU BTUH BTUH BWV	AREA DRAIN ABOVE FINISHED FLOOR ANNUAL FUEL UTILIZATION EFFICIENCY ACOUSTIC LINER ACCESS PANEL ARCHITECT AIR SEPARATOR ADJUSTABLE SPEED CONTROLLER ACID RESISTANT VENT ACID RESISTANT VENT ACID RESISTANT WASTE BELOW FINISHED FLOOR BRITISH THERMAL UNITS BRITISH THERMAL UNITS PER HOUR BACKWATER VALVE CATCH BASIN	INV LB LAT LAV LF LWT MBH MCF MECH MFR MH MIN MISC	INVERT POUND LEAVING AIR TEMPERATURE LAVATORY LINEAL FOOT LEAVING WATER TEMPERATURE ONE THOUSAND BTU PER HOUR ONE THOUSAND CUBIC FEET MECHANICAL MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS NORMALLY CLOSED	REVI POIN NUM T NUM T NUM T CON Space DOO
CONDENSER WATER RETURNCONDENSER WATER SUPPLYHEATING WATER RETURNHEATING WATER SUPPLYNATURAL GASPROPANE GASREFRIGERANT-LIQUIDREFRIGERANT-SUCTIONREFRIGERANT-HOT GAS	CCF CFCV CFH CFM CLG CO COMB COND CONTR CONV CL CV CW	HUNDRED CUBIC FEET CONSTANT FLOW CONTROL VALVE CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CIRCULATING HOT WATER CEILING CLEAN OUT COMBINATION CONDENSATE CONTRACTOR CONVECTOR CENTER LINE CHECK VALVE COLD WATER	NIC NO NTS OA OF ORD PD PLBG PRV PSIA PSIG PVC	NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OVERFLOW OVERFLOW ROOF DRAIN PRESSURE DROP PLUMBING POWER ROOF VENTILATOR POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE POLY VINYL CHLORIDE	
STEAM CONDENSATE RETURN COMBINATION WASTE & VENT COMPRESSED AIR CONDENSATE DRAINAGE DOMESTIC COLD WATER DOMESTIC COLD WATER-FILTERED DOMESTIC COLD WATER-FILTERED DOMESTIC COLD WATER-HARD DOMESTIC COLD WATER-SOFT DOMESTIC HOT WATER 140° DOMESTIC HOT WATER 140° DOMESTIC HOT WATER-CIRCULATING DOMESTIC HOT WATER-CIRCULATING 140° GREASE VENT GREASE WASTE	DB DF DIA DI DMPR DN DWG DW EA EAT EDR EF EP EQ EQUIP EWC EWT EXH EX or EX. EXIST EXP FD	DRY BULB DRINKING FOUNTAIN DIAMETER DEIONIZED WATER DAMPER DOWN DRAWING DISTILLED WATER EACH ENTERING AIR TEMPERATURE EQUIVALENT DIRECT RADIATION EXHAUST FAN EXPLOSION PROOF EQUAL EQUIPMENT ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE EXISTING EXISTING EXISTING EXPANSION FAHRENHEIT FLOOR DRAIN	R/A RCP RD RECIRC REG RH RIC RHC RM RPM RW SA SAN SB SD SIM SLV SP SPEC SQ FT STM STRUCT	RETURN AIR REFLECTED CEILING PLAN ROOF DRAIN RECIRCULATION REGISTER RELATIVE HUMIDITY RETURN IN COVER REHEAT COIL ROOM REVOLUTIONS PER MINUTE RAIN WATER SUPPLY AIR SANITARY SECURITY BARS STORM DRAIN SIMILAR SLEEVE STATIC PRESSURE SPECIFICATION SQUARE FEET STEAM STRUCTURAL	M0.1 M1.1 M1.2 M1.3 M2.1 M2.2 M2.3 M3.1 M3.2 M3.3 M3.4 M4.1 M4.2 M4.3 M5.1 M5.2
OIL WASTE PUMP DISCHARGE SANITARY VENT SANITARY SEWER SOLAR HOT WATER RETURN SOLAR HOT WATER SUPPLY STORM DRAINAGE STORM DRAINAGE-OVERFLOW PIPE DROP PIPE RISE	FLEX FPM FPS FS FSD FT F & T FTG FTR GA GAL GPH GR GR GW HB	FLEXIBLE FEET PER MINUTE FEET PER SECOND FLOOR SINK FIRE/SMOKE DAMPER FOOT/FEET FLOAT & THERMOSTATIC STEAM TRAP FOOTING FIN TUBE RADIATION GAGE/GAUGE GALLON GALLONS PER HOUR GALLONS PER HOUR GALLONS PER MINUTE GRILLE GREASE WASTE HOSE BIBB HORDER DRAIN	TD TD TS TTFD TYP UFD UG UH UR V VAV VD VTR W WB WC	TEMPERATURE DIFFERENCE TRENCH DRAIN TEMPERATURE SENSOR TELL-TALE FLOOR DRAIN TYPICAL UNDER FLOOR DUCT UNDERGROUND UNIT HEATER URINAL VENT VARIABLE AIR VOLUME VOLUME DAMPER VENT THROUGH ROOF SANITARY WASTE WET BULB WATER CLOSET	M5.3 M6.1 M7.1
-PIPE TEE -CAP -PLUG -REDUCING 45 DEGREE TEE -45 DEGREE TEE R	HD HP HTG HTR HVAC HW HYD	HOPPER DRAIN HORSEPOWER HEATING HEATER HEATING VENTILATION & AIR CONDITIONING HOT WATER HYDRANT	WC WCO WH WMS WTR	WATER GLOSET WALL CLEAN OUT WALL HYDRANT / WATER HEATER WIRE MESH SCREEN WATER EQUIPMENT AB	BREVIATIONS

AIR CONDITIONING UNIT AIR COOLED CONDENSER	EF EDC	EXHAUST FAN ELECTRIC DUCT COIL	RE RTU	RETURN/EXHAUST FAN ROOFTOP UNIT
AIR COOLING CONDENSING UNIT AIR FLOW MEASURING STATION	ET EWH	EXPANSION TANK ELECTRIC WATER HEATER	SA	SHOCK ABSORBER
AIR SEPARATOR	FCU FP	FAN COIL UNIT FIRE PUMP	SEP SF	SEWAGE EJECTOR PUMP SUPPLY FAN
BOILER			SP	SUMP PUMP
CABINET FAN CHEMICAL FEEDER	GI GRV	GREASE INTERCEPTOR GRAVITY ROOF VENTILATOR	UH US	UNIT HEATER UTILITY SET
CHEMICAL FEEDER PUMP CHILLER	H HWP	HUMIDIFIER HEATING WATER PUMP	UV	UNIT VENTILATOR
CONDENSATE RETURN UNIT COOLING TOWER CABINET UNIT HEATER CONDENSER WATER PUMP	HX HPU HRU	HEAT EXCHANGER HEAT PUMP UNIT HEAT RECOVERY UNIT	WFMS WH	WATER FLOW MEASURING WATER HEATER
CHILLED WATER PUMP	ILC	INLINE CENTRIFUGAL		
DOMESTIC WATER BOOSTER PUMP DUCT MOUNTED COIL DOMESTIC WATER CIRCULATING PUMP	PF PRV PWF	PROPELLER FAN POWER ROOF VENTILATOR POWER WALL FAN		



GENERAL MECHANICAL SYMBOLS

REVISION NUMBER - SHOWN ON PLANS

POINT WHERE NEW CONNECTS TO EXISTING -NUMBER OF DETAIL ON SHEET

-NUMBER OF SHEET WHERE DETAIL APPEARS

CONTINUATION SYMBOL

KEYNOTE

ROOM NAME AND NUMBER

ITEM TO BE DEMOLISHED

AREA NOT IN CONTRACT

MECHANICAL SHEET INDEX

M0.1 Mechanical Title Sheet

- M1.1 Floor Plan Phase 1 Mechanical Demolition 11.2 Floor Plan - Phase 1 - Mechanical Demolition Floor Plan - Phase 2 - Mechanical Demolition
- M2.1 Floor Plan Phase 1 Fire Protection M2.2 Floor Plan - Phase 1 - Fire Protection M2.3 Floor Plan - Phase 2 - Fire Protection
- M3.1 Floor Plan Phase 1 Plumbing M3.2 Underfloor Plan - Phase 2 - Plumbing M3.3 Floor Plan - Phase 2 - Plumbing M3.4 Plumbing Riser Diagrams
- M4.1 Floor Plan Phase 1 Piping M4.2 Floor Plan - Phase 1 - Piping M4.3 Floor Plan - Phase 2 - Piping
- M5.1 Floor Plan Phase 1 HVAC M5.2 Floor Plan - Phase 1 - HVAC
- M5.3 Floor Plan Phase 2 HVAC M6.1 Mechanical Schedules
- M7.1 Mechanical Details

enriching communit throug architectu luluth ' virginia* twin cities www.dsgw.com WOODROW WILSON KEEBLE MEMORIAL HEALTH CARE CENTER USP COMPLIANCE 100 Lake Traverse Drive SISSETON, SD 57262 project #: <u>020053.00</u> date: 07/22/2022 drawn by: _AE_ checked by: <u>MD</u> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota. MINDE signature: printed Mike Dolejs name: . reg. #: _____14204 sign date: _____07/22/2022 consulting engineers minneapolis (mankato 1112 North 5th Street 1624 North Riverfront Drive Minneapolis, MN 55411 Mankato, MN 56001 (612) 343-5965 (507) 625-7869 revision / date issue no. Addendum #1 9/10/24

MECHANICAL sheet TITLE SHEET sheet

M0.1

number:

/ MEASURING STATION

EDI-DOLEJS #20-072



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	A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATIONS AND SIZES OF DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED	CSSW communitation through
(KA)	B. NOTIFY ENGINEER OF ANY DISCREPANCIES.C. CUT AND PATCH EXISTING SURFACES (WALLS, FLOORS)	duluth ° virginia° twin cities
	AND/OR CEILINGS) AS REQUIRED TO PERFORM WORK. PATCHING SHALL MATCH SURROUNDING SURFACES. D. DISCONNECTED EQUIPMENT SHALL BE REMOVED. NO	www.dsgw.com
	EQUIPMENT SHALL BE ABANDONED IN PLACE.	WOODROW
		WILSON
		KEEBLE
		MEMORIAL
		HEALTH CARE
		CENTER USP
		COMPLIANCE
JA.Z		100 LAKE TRAVERSE DRIVE
		JISSEIUN, JU 3/ 202
(JA)		project #: <u>02005</u> 3.00
		date: 07/22/2022 drawn by: _AE
		checked by: MD
		I hereby certify that this plan, specification, or report was
HA.7		direct supervision and that I am a duly Licensed Professional Engineer under the laws of the
		state of South Dakota.
		signature: printed name:MIKE DOLEJS
		reg. #:14204 sign date:07/22/2022
		edi-doleis
		consulting engineers minneapoils manikato
		1112 North 5th Street 1624 North Riverfront Dri Minneapolis, MN 55411 Mankato, MN 56001 (612) 343-5965 (507) 625-7869
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(F8)		
		Floor Plan - Phase 1 -
		MECHANICAL
		title:



GENERAL NOTES

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATIONS AND SIZES OF DUCTWORK, PIPING AND EQUIPMENT TO BE REMOVED.
- B. NOTIFY ENGINEER OF ANY DISCREPANCIES.

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NORTH

- C. CUT AND PATCH EXISTING SURFACES (WALLS, FLOORS, AND/OR CEILINGS) AS REQUIRED TO PERFORM WORK. PATCHING SHALL MATCH SURROUNDING SURFACES.
- D. DISCONNECTED EQUIPMENT SHALL BE REMOVED. NO EQUIPMENT SHALL BE ABANDONED IN PLACE.



EDI-DOLEJS #20-072





		CENEDAL NOTES	
		A. THIS DRAWING IS A BID DOCUMENT AND IS NOT A DESIGN DRAWING. CONFIRMATION OF FINAL DESIGN VIA SHOP DRAWINGS, HYDRAULIC CALCULATIONS, PRODUCT SUBMITTALS, ETC. IS THE SOLE	CSSW <i>enriching</i> <i>communiti</i> <i>through</i> <i>architectur</i>
	——(KA)	RESPONSIBILITY OF THE FIRE PROTECTION DESIGN/BUILD CONTRACTOR.	duluth ° virginia° twin cities
		 B. REFER TO ARCHITECTURAL PLANS FOR COMPLETE CEILING/FLOOR/ROOM PLAN INFORMATION. C. ALL AREAS SHALL BE DESIGNED AS LIGHT HAZARD 	www.dsgw.com
		OCCUPANCY UNLESS INDICATED OTHERWISE OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.	
<		D. PROVIDE PROTECTION ABOVE AND BELOW OBSTRUCTIONS AS REQUIRED, WHETHER INDICATED OR NOT.	
		E. ALL SPRINKLERS LOCATED IN FINISHED AREAS SHALL BE SYMMETRICAL IN PATTERN FOR THE AREA SERVED.	WILSON
		NEAR ALL HEAT PRODUCING EQUIPMENT IN ACCORDANCE WITH NFPA 13.	Keeble
		G. DRY TYPE PENDANT AND SIDEWALL SPRINKLER HEADS SHALL FOLLOW THE MANUFACTURER'S REQUIREMENTS FOR THE MINIMUM BARREL LENGTH IN THE HEATED AREA.	MEMORIAL
		 H. PROVIDE AUXILLIARY DRAINS WITH PIPING TO APPROVED LOCATIONS FOR ALL TRAPPED PIPING. DRAIN PIPING SHALL BE SIZED PER NFPA 13 REQUIREMENTS. 	HEALTH CARE
		I. ALL WALL AND FLOOR PENETRATIONS WITH FIRE PROTECTION PIPING SHALL BE FULLY SLEEVED AND SEALED.	CENTER USP
	JA.2	J. APPROVED THROUGH PENETRATION FIRE STOP SYSTEMS SHALL BE USED FOR ALL RATED WALLS AND FLOORS TO MAINTAIN RATING.	COMPLIANCE
		K. NO STORAGE IS PERMITTED IN MECHANICAL OR ELECTRICAL ROOMS.	100 LAKE TRAVERSE DRIVE SISSETON, SD 57262
		M. DESIGN AREA REDUCTION FOR QUICK RESPONSE	
		SPRINKLERS ALLOWED BY NFPA 13 SHALL NOT APPLY TO AREAS WITH CLOUD CEILINGS. N. ALL MATERIALS USED IN THE INSTALLATION OF THE	project #, 020053.00
		FIRE PROTECTION SYSTEMS SHALL BE NEW AND OF CURRENT ISSUE, APPROVED BY U.L. AND/OR F.M. AND THE AUTHORITIES HAVING JURISDICTION.	$date: \frac{07/22/2022}{\Delta E}$
		O. ALL FIRE PROTECTION WET AND DRY TYPE SYSTEM PIPING SHALL BE STEEL. DRY TYPE SYSTEM PIPING SHALL BE SCHEDULE 40.	checked by: <u>MD</u>
		P. WHERE NEW SPRINKLER HEADS ARE INSTALLED IN AREAS WITH CEILINGS THEY SHALL BE CENTERED IN THE CEILING TILES.	I hereby certify that this plan, specification, or report was
		Q. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING FINAL SPRINKLER TYPES. LOCATIONS AND FINISHES IN ALL AREAS WITH ARCHITECT.	prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the
		R. TAMPER SWITCHES AND FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. WIRING OF SUCH DEVICES IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.	State of South Dakota.
		ALARM CONTRACTOR.	printed name:MIKE DOLEJS
			reg. #: <u>14204</u> sign date: <u>07/22/2022</u>
		PLAN NOTES MODIFY EXISTING FIRE PROTECTION IN THIS AREA. DISCONNECT AND REMOVE EXISTING FIRE PROTECTION SPRINKLER HEADS/PIPING/ESCUTCHEONS AS NECESSARY TO ACCOMMODATE RENOVATION WORK. PROVIDE ADDITIONAL SPRINK/LED UF ADD	edi-dolejs
		REQUIRED TO ACCOMMODATE NEW OCCUPANCY. PROVIDE ALL NEW SPRINKLER HEADS IN RENOVATED AREAS.	Consulting engineers minneapolis mankato 1112 North 5th Street 1624 North Riverfront Drive Minneapolis MN 55411 Mankata MN 56001
		2. MINIMUM OCCUPANCY CLASSIFICATION FOR BIDDING PURPOSES: COMPACT MOBILE STORAGE UNITS NO HIGHER THAN 8 FEET AND NO WIDER THAN 3 FEET WITH CLASS IV COMODITIES (PLASTIC).	(612) 343-5965 (507) 625-7869
	HA.2		
	HA		revision / issue no. date
			Addendum #1 1 9/10/24
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	(F8)		
			FLOOR PLAN - PHASE 1 - FIRE sheet PROTECTION
1	NORTH		sheet number: NAD
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			A. A. B. C. D. E.
	22		G. Н. І. Ј. К. L. М.
		—EA	N. /
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$\frac{1}{M22} \frac{\text{Floor Plan - Phase 1 - Fire Pr}}{1/4" = 1'-0"}$	rotecton	NORTH	



GENERAL NOTES	enriching communiti
THIS DRAWING IS A BID DOCUMENT AND IS NOT A DESIGN DRAWING. CONFIRMATION OF FINAL DESIGN VIA SHOP DRAWINGS, HYDRAULIC CALCULATIONS, PRODUCT SUBMITTALS, ETC. IS THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION DESIGN/BUILD CONTRACTOR.	duluth * virginia* twin cities
REFER TO ARCHITECTURAL PLANS FOR COMPLETE CEILING/FLOOR/ROOM PLAN INFORMATION.	www.dsgw.com
ALL AREAS SHALL BE DESIGNED AS LIGHT HAZARD OCCUPANCY UNLESS INDICATED OTHERWISE OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.	
PROVIDE PROTECTION ABOVE AND BELOW OBSTRUCTIONS AS REQUIRED, WHETHER INDICATED OR NOT.	VVOODROW
ALL SPRINKLERS LOCATED IN FINISHED AREAS SHALL BE SYMMETRICAL IN PATTERN FOR THE AREA SERVED.	WILSON
HIGH TEMPERATURE SPRINKLERS SHALL BE PROVIDED NEAR ALL HEAT PRODUCING EQUIPMENT IN ACCORDANCE WITH NFPA 13.	Keeble
DRY TYPE PENDANT AND SIDEWALL SPRINKLER HEADS SHALL FOLLOW THE MANUFACTURER'S REQUIREMENTS FOR THE MINIMUM BARREL LENGTH IN THE HEATED AREA.	MEMORIAL
PROVIDE AUXILLIARY DRAINS WITH PIPING TO APPROVED LOCATIONS FOR ALL TRAPPED PIPING. DRAIN PIPING SHALL BE SIZED PER NFPA 13 REQUIREMENTS.	HEALTH CARE
ALL WALL AND FLOOR PENETRATIONS WITH FIRE PROTECTION PIPING SHALL BE FULLY SLEEVED AND SEALED.	CENTER USP
APPROVED THROUGH PENETRATION FIRE STOP SYSTEMS SHALL BE USED FOR ALL RATED WALLS AND FLOORS TO MAINTAIN RATING. NO STORAGE IS PERMITTED IN MECHANICAL OR	100 Lake Traverse Drive
ELECTRICAL ROOMS. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE	Sisseton, SD 57262
INSTALLED IN MECHANICAL ROOMS. DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS ALLOWED BY NFPA 13 SHALL NOT APPLY TO AREAS WITH CLOUD CEILINGS.	
ALL MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE NEW AND OF CURRENT ISSUE, APPROVED BY U.L. AND/OR F.M. AND THE AUTHORITIES HAVING JURISDICTION.	project #: <u>020053.00</u> date: <u>07/22/2022</u>
ALL FIRE PROTECTION WET AND DRY TYPE SYSTEM PIPING SHALL BE STEEL. DRY TYPE SYSTEM PIPING SHALL BE SCHEDULE 40.	drawn by: _AE checked by: _MD
WHERE NEW SPRINKLER HEADS ARE INSTALLED IN AREAS WITH CEILINGS THEY SHALL BE CENTERED IN THE CEILING TILES.	I hereby certify that this plan, specification, or report was
FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING FINAL SPRINKLER TYPES. LOCATIONS AND FINISHES IN ALL AREAS WITH ARCHITECT.	prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota
TAMPER SWITCHES AND FLOW SWITCHES SHALL BE FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. WIRING OF SUCH DEVICES IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.	
COORDINATE ALL FIRE PROTECTION WORK WITH FIRE ALARM CONTRACTOR.	printed name:MIKE DOLEJS
	reg. #: <u>14204</u>
PLAN NOTES	sign date:
10DIFY EXISTING FIRE PROTECTION IN THIS AREA. DISCONNECT AND REMOVE EXISTING FIRE PROTECTION PRINKLER HEADS/PIPING/ESCUTCHEONS AS NECESSARY O ACCOMMODATE RENOVATION WORK. PROVIDE DDITIONAL SPRINKLER HEADS/PIPING/ESCUTCHEONS AS REQUIRED TO ACCOMMODATE NEW OCCUPANCY. ROVIDE ALL NEW SPRINKLER HEADS IN RENOVATED REAS. 11NIMUM OCCUPANCY CLASSIFICATION FOR BIDDING PURPOSES: COMPACT MOBILE STORAGE UNITS NO IIGHER THAN 8 FEET AND NO WIDER THAN 3 FEET WITH CLASS IV COMODITIES (PLASTIC).	ECCIENTING ENGINEERS CONSULTING ENGINEERS Minneapolis mankato 1112 North 5th Street Minneapolis, MN 55411 (612) 343-5965 1624 North Riverfront Drive Mankato, MN 56001 (507) 625-7869
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	FLOOR PLAN - PHASE 1 - FIRE sheet PROTECTION

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				KA	GENERAL NOTES A. PROVIDE A WALL OR FLOOR CLEANOUT AS REQUIRED TO SERVE EACH PLUMBING FIXTURE, SPECIALITY DEVICE, ETC. THAT HAS A NON-ACCESSIBLE TRAP, TYPICAL. B. REFER TO PIPE HANGER AND SUPPORT DETAIL ON SHEET M7.1 INDICATING INSTALLATION REQUIREMENTS, TYPICAL.	enrichin commun through architect duluth ° virginia ° twin cities
		MEDICAL RECORDS 3			 C. REFER TO PIPE PENETRATION DETAIL ON SHEET M7.1 FOR PIPE PENETRATION INSTALLATION REQUIREMENTS, TYPICAL. D. REFER TO WASTE AND VENT RISER DIAGRAM AND DOMESTIC WATER RISER DIAGRAMS ON SHEETS M2.3 THRU M2.6 FOR ADDITIONAL SIZES, PIPE ROUTING, VALVES AND PLUMBING SPECIALITY DEVICES REFER TO PLUMBING RISER DIAGRAM SHEETS FOR PLUMBING ROUGH-IN SCHEDULE, TYPICAL. E. PROVIDE SLEEVES FOR ALL SANITARY WASTE PIPING PASSING THROUGH STRUCTURAL FOOTINGS AND FOUNDATION WALLS. REFER TO SPECIFICATION SECTION 22 0500 AND DETAIL ON SHEET M7.1 FOR ADDITIONAL INFORMATION. COORDINATE AND VERIFY EXACT LOCATIONS AND ELEVATIONS WITH STRUCTURAL, TYPICAL. 	WOODROW WILSON KEEBLE MEMORIAL HEALTH CARE
				 JA.2		CENTER USP COMPLIANCE 100 Lake Traverse Drive Sisseton, SD 57262
RELOCAT EXISTING WATER S FAUCET	TE AND CONNECT			JA		project #: <u>020053.00</u> date: <u>07/22/2022</u> drawn by: _AE checked by: <u>MD</u>
		TEMP PHARMACY		HA.7 HA.6		I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota. signature: printed name:
		REF.				reg. #:
		DISPENSING/ CONSULT		——HA.2 ——HA		revision / no. date Addendum #1 1 9/10/24
						FLOOR PLAN - PHASE 1 -
1 Floor Plan - Phase 1 - Plumbing M3.1 1/4" = 1'-0"	8'			NORTH		sheet number: M3.1

EDI-DOLEJS #20-072



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	GENERAL NOTES	enriching communities
	A. PROVIDE A WALL OR FLOOR CLEANOUT AS REQUIRED TO SERVE EACH PLUMBING FIXTURE, SPECIALITY DEVICE, ETC. THAT HAS A NON-ACCESSIBLE TRAP, TYPICAL.	CSSW through architecture
	B. REFER TO PIPE HANGER AND SUPPORT DETAIL ON SHEET M7.1 INDICATING INSTALLATION REQUIREMENTS, TYPICAL.	duluth ° virginia° twin cities www.dsgw.com
	C. REFER TO PIPE PENETRATION DETAIL ON SHEET M7.1 FOR PIPE PENETRATION INSTALLATION REQUIREMENTS, TYPICAL.	
	D. REFER TO WASTE AND VENT RISER DIAGRAM AND DOMESTIC WATER RISER DIAGRAMS ON SHEETS M2.3 THRU M2.6 FOR ADDITIONAL SIZES, PIPE ROUTING, VALVES AND PLUMBING SPECIALITY DEVICES. REFER	
——————————————————————————————————————	TO PLUMBING RISER SHEETS FOR PLUMBING ROUGH-IN SCHEDULE, TYPICAL. E. PROVIDE SLEEVES FOR ALL SANITARY WASTE PIPING DASSING TUPOLICU STRUCTURAL FOOTINGS AND	WILSON
	FOUNDATION WALLS. REFER TO SPECIFICATION SECTION 22 0500 AND DETAIL ON SHEET M7.1 FOR ADDITIONAL INFORMATION. COORDINATE AND VERIFY EXACT LOCATIONS AND ELEVATIONS WITH	KEEBLE }
	STRUCTURAL, TYPICAL.	
		HEALTH CARE
		CENTER USP
JP <u><-1</u>		
		100 Lake IRAVERSE DRIVESISSETON, SD 57262
		project #: 020053.00 date: 07/22/2022
JA.Z		drawn by: _AE
D EXCAVATE NEW ACKFILL AND IATCH		I hereby certify that this plan,
NS JA		specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional
		Engineer under the laws of the State of South Dakota.
		signature:
		reg. #: 14204
HA.6		
		consulting engineers minneapolis mankato
		1112 North 5th Street Minneapolis, MN 55411 (612) 343-59651624 North Riverfront Drive Mankato, MN 56001 (507) 625-7869
		revision / sissue no. date
		Addendum #1 1 9/10/24 \$
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		UNDERFLOOR
——————————————————————————————————————		PLAN - PHASE 2 - sheet PLUMBING
NORTH		sheet number: MR 7
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- 2" W	
	KFFBIF
	MEMORIAL
EX. 1 1/2" V	HEALTH CARE
	CENTER USP
EX. 1 1/2" V	COMPLIANCE
<u>SK-2</u> 2" W <u>FX 2" W</u>	100 Lake Traverse Drive Sisseton, SD 57262
	project #: 020053.00
EX. 11/2" V EX. 11/2" V EX. 11/2" V EX. 2" V EX. 2" V EX. 2" V	date: <u>0172272022</u> drawn by: _AE checked by: <u>MD</u>
	I hereby certify that this plan,
SHUT-OFF VALVE, TYPICAL UNLESS OTHERWISE NOTED	specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the
EX. 4" W	State of South Dakota.
EX. 4" W	signature:
	reg. #: <u>14204</u> sign date: <u>07/22/2022</u>
	edi-dolejs
M3.4 NO SCALE	Consulting engineers minneapolis mankato 1112 North 5th Street 1624 North Riverfront Drive Minneapolis MN 55411 Mankato MN 56001
1/2" CW 	(612) 343-5965 (507) 625-7869
EX. 1/2" HW EX. 1/2" CW	revision /
EX. 1/2" HW EX. 3/4" HW EX. 3/4" CW	issue no. date Addendum #1 1 9/10/24
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EX. 3/4" HW	PLUMBING RISER sheet DIAGRAMS title:
2 Plumbing Riser Diagram - Domestic Water M3.4 NO SCALE	sheet number: M3.4
	EDI-DOLEJS #20-072



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24		enriching communities through
	(KA)	architecture
		duluth ° virginia° twin cities www.dsgw.com
		WOODROW
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		CENTER USP
	JA.2	
		100 Lake Traverse Drive Sisseton, SD 57262
	(IA)	project #: 020053.00
		date: <u>07/22/2022</u>
		checked by: <u>MD</u>
		I hereby certify that this plan,
 	=HA.7	specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional
	HA.6	Engineer under the laws of the State of South Dakota.
		signature: MINDS
		printed name:MIKE DOLEJS reg. #:14204
		sign date:07/22/2022
		edi-dolejs
		consulting engineers
		1112 North 5th Street 1624 North Riverfront Drive Minneapolis, MN 55411 Mankato, MN 56001 (612) 343-5965 (507) 625-7869
	HA.2	
	— — (HA)	revision /
		issue no. date Addendum #1 1 9/10/24
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		FLOOR PLAN -
		sheet PHASE 1 - PIPING
		sheet number: M41
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ζ		Floor Plan - Phase 1 - Piping	
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GENERAL NOTES

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NORTH

- A. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS WHERE DUCTWORK IS INTERNALLY LINED. INCREASE DIMENSIONS OF SHEET METAL ACCORDINGLY.
- B. ALL TRANSFER DUCTS SHALL BE INTERNALLY LINED WITH 1" ACOUSTIC LINER.
- C. MAINTAIN UNOBSTRUCTED CLEARANCE TO THE ENTIRE HEAT PUMP FOR MAINTENANCE ACCESS.
- D. DIFFUSER BRANCH DUCT SIZE SHALL BE THE SAME AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
- E. PROVIDE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND EXHAUST INLET, UNLESS THERE IS ONLY ONE DIFFUSER FOR A VAV BOX.
- F. REFER TO CEILING DIFFUSERS SIZE SCHEDULE FOR DIFFUSERS NECK SIZES.
- G. ALL CEILING GRILLES (RETURN AIR) SHALL BE 24"x12" UNLESS NOTED OTHERWISE.
- H. COORDINATE DUCTWORK WITH ALL DISCIPLINES IN THE CEILING SPACE.
- TEMPERATURE CONTROL CONTRACTOR SHALL FURNISH ALL MOTORIZED DAMPERS FOR INSTALLATION BY MECHANICAL CONTRACTOR.

PLAN NOTES

- 1. 6/6 TRANSFER DUCT.
- 2. 8/8 TRANSFER DUCT.
- 3. 14/12 TRANSFER DUCT.

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WOODROW

MEMORIAL

100 Lake Traverse Drive

SISSETON, SD 57262

project #: <u>020053.00</u>

drawn by: _AE___

checked by: <u>MD</u>

signature: <u> </u>

printed

name: _

reg. #: _____14204

sign date: _____07/22/2022

(612) 343-5965

revision /

issue

Addendum #1

sheet number:

date: 07/22/2022

I hereby certify that this plan, specification, or report was prepared by me or under my

duly Licensed Professional

MINDS

Mike Dolejs

consulting engineers minneapolis | mankato

no.

(507) 625-7869

date

9/10/24

WILSON

Keeble

Floor Plan -

M5.2





									IHS Woo	odrow Wils	on Clinic	c - Ventilati	on Requi	irements																	
				meneral assessed	ROOM					ASHRAE 1	70-2021			ASHRAE 62	2.1 2022	50	EX	USP 795	/797/800	8		CODE N	INIMUM	AIR FLO	WS		16	DESIG	AIRFLO	NS	
AREA	ASHRAE 170-2021	ASHRAE 62.1 2022	USP 795/797/800	ROOM AREA SQ. FT	HEIGHT FT	CU. FT	COOLING (°F)	HEATING (°F)	CODE PRESSURE REQ	OA ACH	TOTAL ACH	EXHAUST TO EXTERIOR	# OF PEOPLE	OA PER PERSON	OA PER SQ.FT	TOTAL OA	CODE PRESSUR E REQ	OA ACH	TOTAL ACH	EXHAUST TO EXTERIOR	OA ACH	TOTAL ACH	OA CFM	TOTAL CFM	EXHAUST CFM	OA (CFM)	OA ACH	SUPPLY AIR (CFM)	SUPPLY AIR ACH	EXHAUST I AIR (CFM)	EXHAUST ACH
PHARMACY RX102	PHARMACY SERVICES			1785	9	16.065	75	70	POSITIVE	2	4	NR									2	4	536	1071	NR	560	2	2080	8		
OFFICE RX103		OFFICE SPACE		93	9	837	75	70		_			2	5	0.06	16					NR	NR	16	NR	NR	25	2	75	5		
OFFICE RX104		OFFICE SPACE		102	9	918	75	70					2	5	0.06	16					NR	NR	16	NR	NR	25	2	125	8		
OFFICE RX105		OFFICE SPACE		106	9	954	75	70					2	5	0.06	16					NR	NR	16	NR	NR	25	2	200	13		
CONSULT RX108	PATIENT ROOM			191	9	1,719	75	70	NR	2	4	NR									2	4	57	115	NR	65	2	340	12		
CONSULT RX110	PATIENT ROOM			73	9	657	75	70	NR	2	4	NR									2	4	22	44	NR	30	3	120	11		
CONSULT RX112	PATIENT ROOM			115	9	1,035	75	70	NR	2	4	NR									2	4	35	69	NR	45	3	140	8		
RECEIVING HZD STORAGE RX113			USP 800 STORAGE HZD	172	9	1,548	75	70									NEGATIVE	2	12	YES	2	12	52	310	500	60	2	300	12	500	19
CONTROLLED SUBSTANCES RX109	PHARMACY SERVICES			72	9	648	75	70	POSITIVE	2	4	NR				j j					2	4	22	43	NR	30	3	120	11		
POSITIVE BUFFER ROOM RX107			USP 797 - SCA ROOM	67	9	603	75	70									NR	2	4	NR	2	4	20	42	NR	50	5	400	40		
ANTEROOM RX106	PATIENT ROOM			66	9	594	75	70	NR	2	4	NR									2	4	20	40	NR	50	5	400	40		
WAITING RX111		OFFICE SPACE		313	9	2,817	75	70					6	5	0.06	49					NR	NR	49	NR	NR	55	1	380	8		
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WATER TO AIR HEAT PUMP SCHEDULE

ITEM	
TAG	
HP-14	R)
HP-15	10
HP-16	103, 104,
HP-17	
111 17	
NOTES	5:
1. CO	OLING RA
2 HE	ATING RAT
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13. HE/	AT PUMPS
14. REF	ER TO SE
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			TOTAL	WATER	WATER			12	CC	DOLING					HEATING		CONTROL	
			AIR	FLOW	PRESSURE	HPWS/ HPWR	EAT DB	EAT WB	TOTAL	SENSIBLE	HEAT REJECTION	EER	EAT DB F	TOTAL	HEAT ABSORPTION	COP	VALVE	REFER TO
SERVICE	MANUFACTURER	MODEL	CFM	GPM	DROP (FT-HD)	SIZES (IN.)	DEG F	DEG F	CAP. MBTUH	CAP. MBTUH	MBTUH			CAP. MBTUH	MBTUH		TYPE	NOTES
X106, RX107	DAIKIN	WGTH-026	800	6.0	5.5	3/4" / 3/4"	80	67	25.9	18.6	31.6	15.6	65	18.1	13.5	3.9	2-PORT	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1
02, 107, 108	DAIKIN	WGSH-015	500	5.0	9.6	3/4" / 3/4"	80	67	15.1	11.3	18.3	16.3	65	12.3	9.3	4.1	2-PORT	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1
, 105, 106, 109, 110	DAIKIN	WGSH-019	600	4.5	7.6	3/4" / 3/4"	80	67	16.9	12.8	20.8	14.8	65	13.8	10.2	3.8	2-PORT	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1
101	DAIKIN	WGTH-026	800	6.0	5.5	3/4" / 3/4"	80	67	25.9	18.6	31.6	15.6	65	18.1	13.5	3.9	2-PORT	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1

ATINGS BASED UPON: 90F EWT ATINGS BASED UPON: 30F EWT

EAT PUMP WITH DDC CONTROLS FOR INTERFACE WITH BUILDING AUTOMATION SYSTEM. HEAT PUMP UNIT DDC CONTROLS SHALL BE COMPATIBLE WITH AND INTEGRATED WITH EXISTING JOHNSON CONTROLS BUILDING AUTOMATION SYSTEM. NIT WITH 2-STAGE COMPRESSOR, CONSTANT AIRFLOW ECM FAN MOTOR, STAINLESS STEEL DRAIN PAN AND CONDENSATE DRAIN PAN OVERFLOW PROTECTION.

NIT WITH SINGLE STAGE COMPRESSOR, CONSTANT AIRFLOW ECM FAN MOTOR, STAINLESS STEEL DRAIN PAN AND CONDENSATE DRAIN PAN OVERFLOW PROTECTION.

NIT WITH FOIL FACED INSULATION, DOUBLE-ISOLATED COMPRESSOR, COMPRESSOR SOUND ATTENUATION BLANKET, LOW LEAK 2" FILTER RACK AND MERV 13 FILTER OPTIONS. NIT WITH EXTENDED LOOP WATER TEMPERATURE RANGE OPTION AND ELECTRIC PHASE LOSS PROTECTION.

NIT WITH SMART EC FAN AND HOT GAS REHEAT DEHUMIDIFICATION OPTION.

NIT WITH SUPPLY HOSE KIT HAVING WYE STRAINER/BLOWDOWN VALVE, ISOLATION BALL VALVE AND P/T PORT. REFER TO SPECIFICATION SECTION 23 8146 FOR ADDITIONAL HOSE KIT INFORMATION. JNIT WITH RETURN HOSE KIT HAVING AUTOMATIC FLOW CONTROL VALVE, ISOLATION BALL VALVE AND P/T PORT. REFER TO SPECIFICATION SECTION 23 8146 FOR ADDITIONAL HOSE KIT INFORMATION.

NIT WITH FIELD INSTALLED 5-KW ELECTRIC DUCT HEATER KIT. YEAR EXTENDED COMPRESSOR AND REFRIGERATION CIRCUIT WARRANTY.

S SHALL MEET OR EXCEED ARI 13256-1 RATING.

SPECIFICATION SECTION 23 8146 FOR ADDITIONAL REQUIREMENTS.

LECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS.

CEILING DIFFUSER SIZE SCHEDULE -CD AND CD2 CFM RANGE FACE SIZE NECK SIZE

0 - 125	12"x12"	6" dia.
0 - 125	24"-24"	01 1
	24 X24	6" dia.
126 - 225	24"x24"	8" dia.
226 - 330	24"x24"	10" dia.
331 - 440	24"x24"	12" dia.
441 - 580	24"x24"	14" dia.
580 - 1000	24"x24"	15" dia.

GRIL	LES, REGISTER	RS AND DIFFU	SERS SCHEDU	LE				
TYPE	SERVICE	MANUFACTURER AND MODEL NO.	VOLUME DAMPER	FINISH	FRAME AND BORDER TYPE	MATERIAL	DESCRIPTION	REFER TO NOTES
CD	CEILING DIFFUSER	TITUS TMSA	9 <u>-1</u>	WHITE ENAMEL	NOTE 1	STEEL	24x24 MODULAR FULL-FACE DIFFUSER WITH ROUND NECK	1, 2
CG	CEILING GRILLE	TITUS 50F	1923	WHITE ENAMEL	NOTE 1	ALUMINUM	1/2"x1/2"x1/2" EGGCRATE GRID.	1, 2
LSD	LINEAR SLOT DIFFUSER	TITUS ML-38	PATTERN CONTROLLERS	WHITE ENAMEL	NOTE 1	ALUMINUM	PROVIDE MP-38 INSULATED PLENUMS SIZED FOR 1, 2, 3, OR 4 SLOTS AS REQUIRED. 3/4" SLOTS	
TG	TRANSFER GRILLE	TITUS 301RL-HD		STANDARD WHITE	NOTE 1	STEEL	0 DEG. DEFLECTION, 1/2" SPACING	1, 2
E/TG	EXH/TRANSFER GRILLE	PRICE LG	2.575	STANDARD WHITE	NOTE 1	STAINLESS STEEL	LATTICE, 1/2" SQUARE MESH	1, 2
LCG	LAMINAR CEILING GRILLE	TITUS TLF		STANDARD WHITE	NOTE 1	STEEL	PERFORATED LAMINAR FLOW GRILLE, INTERNAL BAFFLES	1, 2
NOTES								

1. CONTRACTOR TO VERIFY CEILING/WALL/FLOOR TYPE AND PROVIDE PROPER FRAME AND BORDER TYPE. 2. REFER TO SPECIFICATION SECTION 23 3713 FOR ADDITONAL REQUIREMENTS.

EXHAU	ST/TRANSFER FA	AN SCHEDUL	-							
UNIT NO.	SERVICE	MANUFACTURER	MODEL NO.	TYPE	DRIVE	CFM	ESP (IN. W.C.)	MAX. FAN RPM	HP	REFER TO NOTES
TF-1	N15 - ANTE N16 - COMPOUNDING	СООК	135SQN17DEC	INLINE	ECM	600	0.75	1330	3/4	1, 2, 3
EF-14	N06 - MED RECEIVING N14 - CONTR SUBST	GREENHECK	VEKTOR-H-10	LAB EXHAUST	DIRECT	500	1.00	4000	3/4	1, 2, 4, 5
						0				

NOTES:

1. REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.

2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS (VOLTS AND PHASE).

3. PROVIDE WITH FAN SPEED CONTROLLER FOR AIR BALANCING. 4. PROVIDE WITH 12" HIGH LAB EXHAUSTER CURB, ISOLATION BOX, GRAVITY ISOLATION DAMPER.

5. OVERALL FAN ASSSEMBLY CONE NOZZLE DISCHARGE HEIGHT SHALL BE MINIMUM 10 FT ABOVE ROOF DECK.

6. DIVISION 26 TO PROVIDE VFD.

	El	ECTRIC BASE	BOAR	D RADI	ATIOR SC	HEDULE		
UNIT NO.	LOCATION	MANUFACTURER	MODEL	HEATING TYPE	ENCLOSURE HEIGHT (IN)	LENGTH OF UNIT (FT)	CAPACITY REQUIRED (WATTS)	CAPACITY REQUIRED (BTUH)
EBB-1	SEE PLAN	TRANE	DBF	ELECTRIC	6"	4	617	4,265
NOTES:			6	2				

1. REFER TO SPECIFICATION SECTION 23 82 36 FOR ADDITIONAL REQUIREMENTS. 2. UNIT COLOR TO BE SELECTED BY ARCHITECT FROM STANDARD COLOR CHART.

3. UNIT SHALL BE FLOOR MOUNTED. 4. PROVIDE WITH INTEGRAL 20 AMP, 120-277 VOLT, DOUBLE POLE DISCONNECT SWITCH.

5. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS.

6. PROVIDE BUILT-IN THERMOSTAT.

PLUMBING ROUGH-IN SCHEDULE

FIXTURE TAG	FIXTUF
SK-1	SI
SK-2	SI
SK-3	DOUBLE E
EEW-1	EMERGENC
ETMV-1	EMERGENCY THERMO
NOTES:	

REFER TO DIVISION 22 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTES

E TYPE WASTE VENT CW HW REMARKS 2 1-1/2 1/2 1/2 1-1/2 1/2 SINK 1/2 2 BOWL SINK EXISTING WASTE, VENT, CW AND HW ----____ ----
 CY EYE WASH
 1/2 TW
 COUNTER MOUNT/TEMPERED HW INLET

 MOSTATIC MIXING VALVE
 1/2
 1/2
 1/2 TEMPERED HW OUTLET

AN I	FILTER UNIT SC	CHEDULE				
UNIT		2. 		VOLUME	E.S.P (IN	OPERATING
NO.	AREA(S) SERVED	MANUFACTURER	MODEL	(CFM)	WC)	POWER (WATTS)
FFU-1	N15 - ANTE	CAMFIL	PHARMASEAL	400	0.5	78
FFU-2	N16 - COMPOUNDING	CAMFIL	PHARMASEAL	400	0.5	78

1. REFER TO SPECIFICATION SECTION 23 4100 FOR ADDITIONAL INFORMATION. 2. REFER TO ELECTRICAL PLANS FOR ELECTRICAL REQUIREMENTS.

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Wo	DDF	ROM
WIL	SON	J
Kee	BLE	
Μεν	ЛОF	RIAL
ΗΕΑ	LTH	
	TER	USP
	APL	
IUU LAKI Sissetoi	e irave n, SD 5	RSE DRIVE 7262
project #: <u>(</u>	020053.00	
date: _ drawn by: _/	AE	
checked by: _	WD	
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s J	pecification, prepared by	ify that this plan, or report was me or under my
	specification, prepared by direct superc duly Licensed Engineer und State of Sout	ify that this plan, or report was me or under my vision and that I am a d Professional ler the laws of the h Dakota.
s d gnature:	specification, prepared by direct superv duly Licensed Engineer und State of Sout	ify that this plan, or report was me or under my vision and that I am a d Professional ler the laws of the h Dakota.
gnature: printed name:	specification, prepared by direct superv duly Licensed Engineer und State of Sout <u>MIKE DOLEJS</u> 14204	ify that this plan, or report was me or under my vision and that I am a d Professional der the laws of the h Dakota.
gnature: printed name: reg. #:	specification, prepared by direct superv duly Licensed Engineer und State of Sout <u>Міке Dolejs</u> 14204 07/22/2022	ify that this plan, or report was me or under my vision and that I am a d Professional ler the laws of the h Dakota.
gnature: printed name: reg. #: gn date:	specification, orepared by direct superc duly Licensed Engineer und State of Sout <u>MIKE DOLEJS</u> 14204 07/22/2022	ify that this plan, or report was me or under my vision and that I am a d Professional ler the laws of the h Dakota.
gnature: printed name: reg. #: ign date: Egn date: 1112 North 5	specification, prepared by direct superc duly Licensed Engineer und State of Sout <u>Міке Dolejs</u> 14204 07/22/2022 Sili-O sulting e minneapols п th Street 1	ify that this plan, or report was me or under my vision and that I am a d Professional ler the laws of the h Dakota. MCC S S S S S S S S S S S S S S S S S
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WOODROW WILSON KEEBLE MEMORIAL HEALTH CARE CENTER USP COMPLIANCE 100 LAKE TRAVERSE DRIVE

					ELECTRICAL S	YMB	OL L	EGEND			
IT AFF	<u>SYMBOL</u>	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	<u>SYMBOL</u>	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
	\bigcirc	SURFACE MOUNTED DOWNLIGHT (TYPE DENOTED)	20"	A	MULTIOUTLET ASSEMBLY (TYPE DENOTED)			CONDUIT CONCEALED IN WALL OR OVERHEAD	90"**	HFM	FIRE ALARM HORN
NOTED	Ю	WALL MOUNTED LIGHT (TYPE DENOTED)	20"	Ф <u>V</u> в	MULTIOUTLET ASSEMBLY (TYPE DENOTED)	-	、	CONDUIT CONCEALED BELOW FLOOR	90"**	-0- LIEV 110rd	FIRE ALARM HORN W/STROBE (CANDELAS)
	\bigcirc	RECESSED LIGHT (TYPE DENOTED)	84"	НФА	CLOCK (TYPE DENOTED)	-		CONDUIT EXPOSED	90"**	hed how	FIRE ALARM BELL
SCHED	•	POLE MOUNTED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)	-	0	CONDUIT TRANSITION UP	90"**		FIRE ALARM BELL W/STROBE (CANDELAS)
	• • • •		AS NOTED	(1)⊗	SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)	-	@	CONDUIT TRANSITION DOWN	90"**	HE=	FIRE ALARM CHIME
RSCHED	ŢĂŢ	POLE MOUNTED FLOODLIGHT (TYPE DENOTED)		(2)—⊛	SPECIAL CONNECTION (SEE SCHEDULE)	-		CONDUIT STUBBED OUT	90"**		FIRE ALARM CHIME W/STROBE (CANDELAS)
	0	SURFACE LIGHT (TYPE DENOTED)	AS NOTED	HŪ Ū	JUNCTION BOX			BRANCH CIRCUIT HOME RUN	90"**		FIRE ALARM STROBE (CANDELAS)
۲	0 0	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		PB	PULL BOX		E	CONDUIT SLEEVE (SIZE DENOTED)	90"**		FIRE ALARM SPEAKER W/STROBE (CANDELAS)
		RECESSED LIGHT (TYPE DENOTED)		•	GROUND ROD (PLAN VIEW)			CABLE TRAY (TYPE DENOTED)	60"**		FIRE ALARM REMOTE ANNUNCIATOR
		STRIP LIGHT (TYPE DENOTED)		_	GROUND CONNECTION TO STEEL OR STRUCTURE			LADDER RACK (TYPE DENOTED)	8"****	FA ANNUN H(F) (F)	SMOKE DETECTOR (TYPE DENOTED)
OTED -	<u> </u>	TRACK AND TRACK LIGHT (TYPES DENOTED)		0	GROUND CONNECTION - EXOTHERMIC WELD		J	UNDERFLOOR RACEWAY SYSTEM		HŪ Ū	HEAT DETECTOR (TYPE & TEMP DENOTED)
6" 	V-P	EMERGENCY BATTERY LIGHT (TYPE DENOTED)		-@-	UTILITY SERVICE POWER POLE (SITE)					R/F135 R/F135	LINEAR HEAT DETECTOR
2"*	$\mathbb{H} \otimes \mathbb{A}$	EXIT SIGN (TYPE DENOTED)		-				FLOOR BOX FURNITURE FEED (TYPE AS NOTED)		Ē	DUCT SMOKE DETECTOR (TYPE DENOTED)
OTED +		LIGHT FIXTURE WITH EMERGENCY BALLAST	VERIFY	L1	SURFACE BRANCH CIRCUIT PANEL (250-V OR LESS)	-		FLOOR BOX WITH DATA (QUANTITIES AS NOTED)	48"	or H∎	REMOTE TEST/STATUS STATION
OTED +		NIGHT LIGHT FIXTURE WITH EMERGENCY BALLAST	VERIFY	L1	RECESSED BRANCH CIRCUIT PANEL (250-V OR LESS)	-		FLOOR BOX WITH RECEPTACLE (QUANTITIES AS NOTED)		H⊘ ⊘	FLAME DETECTOR (TYPE DENOTED)
			VERIFY	H1	SURFACE BRANCH CIRCUIT PANEL (277/480 VOLT)	1		FLOOR BOX W/RECEPTACLE & DATA (QUANTITIES AS NOTED)		UV/IR UV/IR	GAS DETECTOR (TYPE DENOTED)
- חדבת			VERIFY	<u>H</u>	RECESSED BRANCH PANEL (277/480 VOLT)	1	~ <u> </u>	POKE THROUGH FURNITURE FEED (TYPE AS NOTED)	48"***		F.A. PULLSTATION
			VERIFY		POWER OR DISTRIBUTION PANEL	-	Ĩ	POKE THROUGH WITH DATA (QUANTITIES AS NOTED)		Z	F.A. ZONE ADDRESSABLE MODULE
0"			VERIFY		SWITCHBOARD MAIN	-	$\rightarrow \odot$	POKE THROUGH WITH RECEPTACLE (QUANTITIES AS NOTED)		Π	F.A. INDIVIDUAL ADDRESSABLE MODULE
0"	107 102	2 POLE SINGLE THROW SW	VERIEY		SPECIAL CABINET (TYPE DENOTED)	-	⊖⊙∢	POKE THROUGH W/RECEPT & DATA (QUANTITIES AS NOTED)		⊢©i	F.A. DOOR HOLDER
) יינ	1 07	2 WAY SW		 T1	TRANSFORMER (TYPE DENOTED)	-	001				F.A. DOOR CLOSER
כ	1 107	4 WAY SW			GROUND BAR	20"		TELEPHONE OUTLET (TYPE DENOTED)		FR	FIRE ALARM SHUT DOWN RELAY
0 0"	њ о к			VED	ADJUSTABLE SPEED DRIVE	48"***	M W	WALL TELEPHONE OUTLET (TYPE DENOTED)			SPRINKLER FLOW SWITCH
D 0"	iv ,	SW W/PILOT			GENERATOR (KVA DENOTED)	20"		INFORMATION OUTLET (TYPE DENOTED)		\circ	SPRINKLER VALVE TAMPER SWITCH
5 0"	l ∩			() SF-1	MOTOR (SEE SCHEDULE)	48"	+(C)				SPRINKLER LEVEL SWITCH
כ				$\Box + + + + + +$	DAMPER MOTOR	20"	ĸ	TELEVISION OUTLET		Ş. V S Q S	SPRINKLER PRESSURE SWITCH
0 0"	ICO OS		48"		MANUAL MTR. STR. (W/OVERLOADS)	20"		MULTIPLE SERVICE OUTLET (TYPE DENOTED))	SPRINKLER TEMPERATURE SWITCH
0"	MC		72"**		MAG. MOTOR STARTER OR CONTACTOR			CEILING MOUNT WIRELESS ACCESS POINT		, → _{FLR}	END OF LINE RESISTOR
ט פיי			72"**		COMB. MOTOR STARTER (NON-FUSED)	20"	r ⊲⊂ H©	DICTATION OUTLET LOCATION		->: Н)	MUSHROOM SWITCH
0 8"			72"**		COMB. MOTOR STARTER (FUSED)	48"***	⊢© [₩]	WALL DICTATION OUTLET LOCATION	48"		START/STOP PUSH BUTTON STATION
2" J	LC SP		72"**		SAFETY DISC. SW. (NON-FUSED)	20"	⊢©	EQUIPMENT GROUND OUTLET			ADA DOOR OPENER
0 8"	LCO.M		ASTROTED		SAFETY DISC. SW. (FUSED)	AS NOTED	⊢(J) ^{NFV-4} ⁄2	X-RAY FILM VIEWER (SEE SPECIFICATIONS)		S DA	DURESS PUSHBUTTON - SURFACE MOUNTED
)					BUS DUCT WITH PLUG UN DISCONNECT (FUSED)	84"	нтр	BELL		HS DA	DURESS PUSHBUTTON - WALL MOUNTED
)"					VARIABLE FREQUENCY DRIVE	84"	· □~~ H□V	BUZZER	48"***	∠_	INMATE WALL PHONE (TYPE DENOTED)
נ ייר			72"**	R	RELAY			CHIME	/0"***	1-	VIDEO VISITATION (TYPE DENOTED)
))"	P P		72"**		ENCLOSED CIRCUIT BREAKER	48"***	H D	DOOR SIGNAL - APT. UNIT	40	 H● EP0 	EMERGENCY POWER OFF BUTTON
,)"	$ \vdash $			PS 😭	PRESSURE SWITCH	84"	_ ⊦© ©	SPEAKER (WALL OR CEILING MT.)		$\langle 1 \rangle$	KEYED NOTE (SEE SCHEDULE)
יינ	$ \vdash $			FS O	FLOAT SWITCH	84"	1000	HORN TYPE SPEAKER		(#)	RELAY NUMBER
0 0"	⊢ ₽			(OS)	OCCUPANCY SENSOR - TYPE DENOTED			SURFACE MT SPEAKER SUSPENDED FROM CEILING		(#)	KITCHEN EQUIPMENT TAG (SEE SCHEDULE)
ייר אינ	⊬⊖≤			(LS)	LIGHT LEVEL SENSOR - TYPE DENOTED	48"	∿ ⊮∽			£ ₹ ₹	DASHED SYMBOL INDICATES REMOVED
י ייר	⊢₩		AS NOTED	HPC	PHOTOCELL	20"	ΗM				EXISTING TO REMAIN
י ייר	⊢⊕≤		48"	HTC	TIME CONTROL SWITCH (TIME SWITCH)	20"	r ⊢®	PROJECTOR CONTROL OUTLET			
י ייר	₽ ₽		48"	(H)	HUMIDISTAT	20		ANTENNA			
n"	⊷~~ ⊢——		48"	(T)	THERMOSTAT	-	l @⊄⊨	WEATHERHEAD			
	$\mathbb{A} = \mathbb{A}$) F	SOLENOID VALVE	-	-7-				
IVIED				CE (E	EQUIPMENT PLUG	-					
	$\Box A$			7		-					
											I
									UF THE D	LVIGE AT 40.	
ANCE /	ADUVE TUP OF DC	OUK FRAME ** DISTANCE TO	I UP UF EQUIPI		UE DISTANCE TO HIGHEST OPER	ABLE PART OF	EQUIPMENT	TISTANCE BELOW CEILING			DISTAINCE TO BUILIOM OF DEVICE

SISSETON, SD 57262 IHS PROJECT # GP19S1079C8

ELECTRICAL DRAWINGS

1P	1 POLE (2P, 3P, 4P, ETC.)	FU	FUSE	PA	PUBLIC ADDRESS
		FUDS	FUSED SAFETY DISCONNECT	PB	PULL BOX OR PUSHBUTTON
A	AMPERE		SWITCH	PE	PNEUMATIC ELECTRIC
AC	ABOVE COUNTER OR AIR			PED	PEDESTAL
	CONDITIONER	GA	GAUGE	PF	POWER FACTOR
ACLG	ABOVE CEILING	GAL	GALLON	PH	PHASE
ADO	AUTOMATIC DOOR OPENER	GALV	GALVANIZED	PIV	POST INDICATING VALVE
AF	AMP FRAME	GC	GENERAL CONTRACTOR	PNL	PANEL
AFF	ABOVE FINISHED FLOOR	GEN	GENERATOR	PP	POWER POLE
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT CIRCUIT INTERRUPTER	PR	PAIR
AFI	ARC FAULT CIRCUIT	GFP	GROUND FAULT PROTECTOR	PRI	PRIMARY
	INTERRUPTER	GND	GROUND	PROJ	PROJECTION
AHU	AIR HANDLING UNIT	GRS	GALVANIZED RIGID STEEL (CONDUIT)	PRV	POWER ROOF VENTILATOR
AL	ALUMINUM	GYP BD	GYPSUM BOARD	PT	POTENTIAL TRANSFORMER
ALT	ALTERNATE			PVC	POLYVINYL CHLORIDE (CONDUIT)
AMP	AMPERE	HOA	HANDS-OFF-AUTOMATIC SWITCH	PWR	POWER
AMPL	AMPLIFIER	HORIZ	HORIZONTAL		
ANNUN	ANNUNCIATOR	HP	HORSEPOWER	QUAN	QUANTITY
APPROX	APPROXIMATELY	HPF	HIGH POWER FACTOR		
AQ-STAT	AQUASTAT	HT	HEIGHT	RCPT	RECEPTACLE
ARCH	ARCHITECT, ARCHITECTURAL	HTG	HEATING	REQD	REQUIRED
AS	AMP SWITCH	HTR	HEATER	RM	ROOM
AT	AMP TRIP	HV	HIGH VOLTAGE	RSC	RIGID STEEL CONDUIT
ATS	AUTOMATIC TRANSFER SWITCH	HVAC	HEATING, VENTILATING AND	RTU	ROOF TOP UNIT
AUTO	AUTOMATIC		AIR CONDITIONING		
AUX	AUXILIARY	HWP	HYDRONIC WATER PUMP	SC	SURFACE CONDUIT
AV	AUDIO VISUAL			SEC	SECONDARY
AWG	AMERICAN WIRE GAUGE	IC	INTERRUPTING CAPACITY	SHT	SHEET
		IG	ISOLATED GROUND	SIM	SIMILAR
BATT	BATTERY	IMC	INTERMEDIATE METAL CONDUIT	S/N	SOLID NEUTRAL
BD	BOARD	INCAND	INCANDESCENT	SPEC	SPECIFICATION
BLDG	BUILDING	IR	INFRARED	SPKR	SPEAKER
BMS	BUILDING MANAGEMENT	I/W	INTERLOCK WITH	SP	SPARE
	SYSTEM			SR	SURFACE RACEWAY
		J-BOX	JUNCTION BOX	SS	STAINI ESS STEEL
C		0 DOX		SSW	SELECTOR SWITCH
CAR	CARINET	KV/		S/S	
CAD				0/0 971	
CAIV		KVAR KW			
CB		KW		SURF	
CCTV	CLOSED CIRCUIT TELEVISION	KWH	KILOWATTHOUR	SW	SWITCH
CKI	CIRCUIT			SWBD	SWITCHBOARD
CLG	CEILING	LOC	LOCATE OR LOCATION	SYM	SYMMETRICAL
COMB	COMBINATION	LT	LIGHT	SYS	SYSTEM
CMPR	COMPRESSOR	LTG	LIGHTING	TEL	TELEPHONE
CONN	CONNECTION	LTNG	LIGHTNING	TEL/DATA	TELEPHONE/DATA
CONST	CONSTRUCTION	LV	LOW VOLTAGE	TERM	TERMINAL
CONT	CONTINUATION OR CONTINUOUS			TL	TWIST LOCK
CONTR	CONTRACTOR	MAX	MAXIMUM	TR	TAMPER RESISTANT
CONV	CONVECTOR	MAG.S	MAGNETIC STARTER	T-STAT	THERMOSTAT
CP	CIRCULATING PUMP	M/C	MOMENTARY CONTACT	TTC	TELEPHONE TERMINAL
CRT	CATHODE-RAY TUBE	MC	MECHANICAL CONTRACTOR		CABINET
ĊT	CURRENT TRANSFORMER	MCB	MAIN CIRCUIT BREAKER	TV	TELEVISION
CTR	CENTER	MCC	MOTOR CONTROL CENTER	TVTC	TELEVISION TERMINAL CABINET
ĊU	COPPER	MDC	MAIN DISTRIBUTION CENTER	TYP	TYPICAL
		MDP	MAIN DISTRIBUTION PANEL		
DCP	DOMESTIC WATER	MFR	MANUFACTURER	UC	UNDER COUNTER
201		MES	MAIN FUSED DISCONNECT SWITCH	UF	
DEPT	DEPARTMENT	MH		UG	UNDERGROUND
	DETAIL	MIC	MICROPHONE	ШН	
	DIAMETER	MIN	MINIMIM		
		MISC			
		MIO			
		MMC		01	UNIT VENTILATOR OR DETRAVIO
ססח		MOA		V	
		MCA		V \/A	
D3 DT		MODD		VA	
		MAT			
DWG	DRAWING	MI	MUUNI	VERI	
		MI.C	EMPTY CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
EC	ELECTRICAL CONTRACTOR	MIS	MANUAL TRANSFER SWITCH	VOL	VOLUME
ELEC	ELECTRIC, ELECTRICAL	MTR	MOTOR, MOTORIZED		
ELEV	ELEVATOR			W	WATT
EM	EMERGENCY	N.C.	NORMALLY CLOSED	W/	WITH
EMS	ENERGY MANAGEMENT SYSTEM	NEC	NATIONAL ELECTRICAL CODE	WG	WIRE GUARD
EMT	ELECTRICAL METALLIC TUBING	NEMA	NATIONAL ELECTRICAL	WH	WATER HEATER
EP	ELECTRIC PNEUMATIC		MANUFACTURER'S	W/O	WITHOUT
EQUIP	EQUIPMENT		ASSOCIATION	WP	WEATHERPROOF
EWC	ELECTRIC WATER COOLER	NFDS	NON-FUSED SAFETY		
EXIST	EXISTING		DISCONNECT SWITCH	XFMR	TRANSFORMER
EXH	EXHAUST	NIC	NOT IN CONTRACT	XFR	TRANSFER
EXP	EXPLOSION PROOF	NL	NIGHT LIGHT		
		N.O	NORMALLY OPEN		ANGLE
FA	FIRE ALARM	NPF	NORMAL POWER FACTOR	0	AT
FARP	FIRE ALARM BOOSTER POWER	NTS	NOT TO SCALE	Ň	DEL TA
ושהי	SUPPLY PANEL	HIU I		<u> </u>	FFFT
EVUD		ОЧ			
				#	
		UL	UVERLUADO	# Ø	
		D^		e C	
LLK		ra DD		Ψ	
FLUOR	FLUURESCENT	РΒ	FULL BOX OK FUSHBUT LON	۳	PLAIE

ELECTRICAL ABBREVIATIONS

SPECIFIC CODE NOTES

- A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL. 1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
- 2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
- 3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.
- C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

EDI-DOLEJS #20-072



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EDI-DOLEJS #20-072

GENERAL NOTES

- A. FOR ITEMS TO BE REMOVED, REMOVE CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX UNLESS NOTED OTHERWISE. LABEL WIRES AS SPARE. IF DEVICES IS ON ITS OWN CIRCUIT. REMOVE WIRING FROM CIRCUIT BREAKER AND LABEL CIRCUIT BREAKER AS 'SPARE'. FOR DEVICES SHOWN TO BE REMOVED IN WALLS THAT REMAIN, REMOVE DEVICE AND PROVIDE BLANK STAINLESS STEEL COVER PLATE. REMOVE WIRING AND CONDUIT IN ALL WALLS AND CEILING BEING REMOVED. ENSURE CONTINUITY TO ALL EXISTING RECEPTACLES, LIGHTS AND ALL OTHER DEVICES THAT REMAIN.
- B. FIELD VERIFY EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED DUE TO EXISTING CONDITIONS.
- C. CUTTING AND PATCHING AS REQUIRED FOR COMPLETION OF ELECTRICAL WORK SHALL BE CARRIED OUT BY THIS CONTRACTOR.
- D. EXISTING BRANCH CIRCUITS FOR PHARMACY AREA ARE HOME RUN TO ELECTRICAL ROOM P10. EXISTING BRANCH CIRCUITS FOR THE AMBULANCE GARAGE AREA ARE HOME RUN TO ROOM W31.
- E. DATA/COMMUNICATION CIRCUITS FOR PHARMACY AREA ARE HOME RUN TO TELECOM ROOM T40/P12. DATA/COMMUNICATION CIRCUITS FOR AMBULANCE GARAGE AREA ARE HOME RUN TO TELECOM ROOM W58.

PLAN NOTES

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- 1. DISCONNECT AND REMOVE LIGHTING EQUIPMENT IN THIS SPACE, INCLUDING LIGHT FIXTURES, SWITCHES, EMERGENCY AND NORMAL LIGHTING WIRING. ALSO FIRE ALARM DEVICES AS SHOWN. MAINTAIN CONTINUITY TO REMAINING CIRCUITS.
- 2. DISCONNECT AND REMOVE DEVICES AND CIRCUITS SHOWN IN WALLS REMAINING AND TO BE REMOVED. WHERE CONDUITS FOR DEVICES COME FROM FLOOR SAW CUT AND PROVIDE FLOOR BOXES AND WIRING AT LOCATIONS TO ENABLE CIRCUIT CONTINUITY. UTILIZE ON GRADE BOXES SIMILAR TO WIREMOLD 880 SERIES ONE GANG OR TWO GANG WITH SOLID COVERS. COLOR BY ARCHITECT.
- 3. EXISTING MOUNTED DEVICES SUCH AS CAMERAS, MOTION SENSORS, SPEAKERS, WIRELESS ACCESS ARE TO BE DISCONNECTED TO FACILITATE THE CEILING INSTALLATION. RE-INSTALL AT NEW CEILING LOCATIONS AS SHOWN ON SHEET E3.3.
- 4. DISCONNECT AND REMOVE EXISTING DOOR CONTROLS TO ENABLE DOOR REMOVAL. SALAVAGE EXISTING CARD READER FOR REUSE BY OWNER'S VENDOR.
- 5. DISCONNECT POWER TO EXISTING MECHANICAL EQUIPMENT IN THIS SPACE TO ENABLE REMOVAL. DISCONNECT AND REMOVE ASSOCIATED ELECTRICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR OR OTHER TRADES.

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GENERAL	NOTES
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- A. PROVIDE AN ADDITIONAL ELECTRICAL CONNECTION TO ALL EMERGENCY LIGHT FIXTURES. ELECTRICAL CONNECTION TO BE FEED FROM UNSWITCHED LEG OF THE CIRCUIT FEEDING THE LIGHT FIXTURES IN THE ROOM/AREA THEY ARE LOCATED IN.
- B. PROVIDE PROPER NUMBER OF CONDUCTORS AND CONTROL WIRES TO ACHIEVE CIRCUITING AND LIGHTING CONTROL AS SHOWN.

PLAN NOTES

- 1. <u>WAITING:</u> a. INTERIOR LIGHTING SHALL BE CONTROLLED WITH LOW-VOLTAGE OCCUPANCY SENSOR AND LOW-VOLTAGE SWITCH.
- b. THE LOW-VOLTAGE WALL SWITCH/S AND SENSOR SHALL PROVIDE MANUAL (24 HOUR/7 DAYS A WEEK) CONTROL AS WELL AS, A TIME OF DAY 'ON' SCHEDULE BETWEEN THE HOURS OF 7 A.M. TO 6 P.M. DURING THE WEEK-DAYS.
- c. THE SENSOR/S SHALL ALSO PROVIDE AUTOMATIC 'ON' (24 HOUR/7 DAYS A WEEK) CONTROL OF WITH A 15 MINUTE TIME-OUT SETTING AFTER HOURS WHICH WILL THEN TURN THE LIGHTS 'OFF'.
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- C. WHEN SWITCH LEG ('a') IS TURNED OFF LOW LEVEL WALKWAY NIGHT LIGHTING SWITCH LEG ('b') SHALL BE TURNED ON. WHEN SWITCH LEG ('a") IS TURN ON LOW LEVEL WALKWAY NIGHT LIGHT SWITCH LEG ('b') SHALL BE TURNED OFF.
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- 12. NO ELECTRICAL WORK REQUIRED IN THIS ROOM/AREA, UNLESS NOTED ELSEWHERE.

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- 11. CONNECT NEW LIGHTING TO EXISTING ROOM LIGHTING CIRCUIT. PROVIDE NEW CONTROLS FOR FIXTURES AS SHOWN.
- 12. NO ELECTRICAL WORK REQUIRED IN THIS ROOM/AREA, UNLESS NOTED ELSEWHERE.

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GENERAL NOTES	PLAN NOTES	enriching
ECTURAL DRAWINGS AND SPECIFICATIONS S OF CONSTRUCTION. COORDINATE WITH ONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE ALL ELECTRICAL ITEMS SHOWN ON THIS	1. FURNISH AND INSTALL A POWER POLE FROM CEILING TO FLOOR TO FEED POWER AND DATA TO EACH WORKSTATION AS SHOWN. UTILIZE WIREMOLD SERIES 250TC BLANK POLE OR EQUAL. PROVIDE FOR CUSTOM COLOR. COORDINATE WITH ARCHITECT ON COLOR SELECTION.	CSSW <i>communities</i> <i>through</i> <i>architecture</i>
ALL ELECTRICAL THEMS SHOWN ON THIS INNECTED TO A 20A. BRANCH CIRCUIT AN INDIVIDUAL RECEPTACLE (SIMPLEX OR IE RECEPTACLE SHALL BE RATED AT 20A. ATIONS AND ROUGH-IN REQUIREMENTS OF FURNISHED EQUIPMENT PRIOR TO ROUGH- ROPER NUMBER OF CONDUCTORS TO RCUITING AND SWITCHING SHOWN. MBERS AT DEVICES CORRESPOND TO RD BREAKERS (SE PANELBOARD BRANCH CIRCUITS SHALL BE SIZED TO THE CIRCUIT BREAKER RATING, ICATED OTHERWISE ON THE ELECTRICAL SCHEDULE. G CONDUCTORS FOR 20 AMPERE, 120 VOLT RUITS LONGER THAN 75 FEET, UNLESS UY INDICATED OTHERWISE. THIS SHALL BE FOR THE ENTIRE LENGTH OF THE CIRCUIT. CONTRACTOR SHALL COORDINATE HEIGHTS OF ALL DEVICES WITH URAL INTERIOR ELEVATIONS AND SHOP DRAWINGS. LES FED FROM UPS CIRCUITS SHALL BE RED RECEPTACLES FED FROM L4COM PANEL RANGE IN COLOR. NORMAL RECEPTACLES HITE. COORDINATE WITH OWNER ON CONTRACTOR SHALL PROVIDE ROUGH-IN SLING, AND 120-VOLT POWER FOR SECURITY S CONTROL EQUIPMENT. EQUIPMENT NS AND TESTING SHALL BE BY THE ENDOR. COORDINATE WIRING S. SHALL PROVIDE ALL RACEWAYS FOR LOW- IRING SPECIFIED IN DIVISION 27. CONTRACTOR SHALL COORDINATE COLOR M RECEPTACLES WITH OWNER.	 FURNISH AND INSTALL ROUGH-IN BOXES AND CAT 6A CABLING FOR NEW CAMERAS AS SHOWN, RUN CABLING TO EXISTING NETWORK SYSTEM IN ROOM T40/P12 FOR MONITORING OF THE PHARMACY AREA. CAMERAS, OTHER EQUIPMENT, TERMINATIONS AND PROGRAMMING TO BE PROVIDED BY OWNER'S SECURITY VENDOR. FURNISH AND INSTALL ROUGH-IN BOXES AND CABLING TO ROOM P10 FOR CARD READERS. CARD READERS, EQUIPMENT, TERMINATIONS AND PROGRAMMING TO BE PROVIDED BY OWNER'S SECURITY VENDOR. COORDINATE WITH THE OWNER'S SECURITY ACCESS CONTROL SUPPLIER. FURNISH AND INSTALL AN AIPHONE MASTER STATION IX-MVY TO BE LOCATED ON WALL PROVIDE A CAT 6 CABLE CONNECTION FROM NETWORK IN ROOM P12. WIRE AND PROGRAM FOR OPERATION WITH UNITS REF: PLAN NOTE 9. FURNISH AND INSTALL A VANDAL RESISTANT AIPHONE DOOR STATION IX-DV. UNIT TO BE SIP COMPATIBLE FOR OPERATION WITH AN AIPHONE MASTER STATION IX-MVY TO SE LOCATED ON WALL PROVIDE A CAT 6 CABLE CONNECTION FROM NETWORK IN ROOM P12. WIRE AND PROGRAM FOR OPERATION WITH UNITS REF: PLAN NOTE 9. FURNISH AND INSTALL A VANDAL RESISTANT AIPHONE DOOR STATION IX-DV. UNIT TO BE SIP COMPATIBLE FOR OPERATION WITH AN AIPHONE MASTER STATION IX-MV7 AS PER PLAN NOTE 8. PROVIDE A CAT 6 CONNECTION TO NETWORK IN ROOM P12. PROVIDE PROGRAMMING AND WIRING TO OPEN RESPECTIVE DOORS FROM THE MASTER STATION. CONTRACTOR TO COORDINATE WITH OWNER'S SECURITY VENDOR ON THE DESIRED LOCATION OF THE EXISTING AND NEW CEILING MOUNTED CAMERAS, MOTION SENSORS AND OTHER SECURITY DEVICES. PROVIDE CABLING AS NEEDED TO ROOM T40/P12. COORDINATE LOCATIONS WITH LIGHTING AND HVAC EQUIPMENT. FURNISH AND INSTALL A NEW CEILING SPEAKER. CONNECT TO EXISTING PHARMACY ZONE AREA. MATCH TO EXISTING SPEAKERS. COORDINATE LOCATIONS WITH LIGHTING AND HVAC EQUIPMENT. ROUTE ALL DATA POINTS IN THESE SPACES TO RACKS IN ROOM T40/P12. COORDINATE WITH OWNER'S IT PERSONNEL. NO ELECTRICAL WORK REQUIRED IN THIS ROOM/AREA, UNLESS NOTED ELSEWHERE. 	duluth * virginia * twin cities www.dsgw.com

Jay S Herby

JAY S. HRUBY P.E.

consulting engineers minneapolis | mankato

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	PLAN NOTES	enriching
	 FURNISH AND INSTALL A NEW 208/120 VOLT 3 PHASE 4 WIRE PANEL L5NB. FEED THIS PANEL VIA A 100 AMP 3 PHASE 4 WIRE CIRCUIT FROM PANEL L5N IN ROOM W31. UTILIZE FOUR (4) #2 AWG PLUS ONE (1) #8 GROUND IN 1 ½" CONDUIT. PROVIDE FEEDS TO CIRCUITS AS SHOWN. 	CSSW communities through architecture
	 SEE SHEET E3.1 FOR PANEL L5N LOCATION. REFRIGERATOR. PROVIDE A 20/1 POLE GFI BREAKER IN PANEL L5NB TO FEED UNIT. 	duluth ° virginia ° twin cities www.dsgw.com
	3. FURNISH AND INSTALL NEW FIRE ALARM DEVICES AS SHOWN. CONNECT TO EXISTING FIRE ALARM SYSTEM. EXISTING FIRE ALARM IS AN ADDRESSABLE UNIT KIDDE VS4 LOCATED IN BOOM H03	
	 4. PROVIDE POWER FEED AND CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH THE MECHANICAL CONTRACTOR 	
	 PROVIDE INDIVIDUAL CIRCUIT TO RECEPTACLE AS SHOWN FOR FEEDING MECHANICAL EQUIPMENT. 	
	6. ROUTE ALL DATA POINTS IN THESE SPACES TO RACKS IN ROOM W58. COORDINATE WITH OWNER'S IT PERSONNEL.	KEEBLE
	 FURNISH AND INSTALL A NEW CEILING SPEAKER. CONNECT TO EXISTING ZONE AREA. MATCH TO EXISTING SPEAKERS. COORDINATE LOCATIONS WITH LIGHTING AND HVAC EQUIPMENT. 	
	 FURNISH AND INSTALL ROUGH-IN BOXES AND CABLING TO ROOM P10 FOR CARD READERS. CARD READERS, EQUIPMENT, TERMINATIONS AND PROGRAMMING TO BE 	HEALTH CARE }
	PROVIDED BY OWNER'S SECURITY VENDOR. COORDINATE WITH THE OWNER'S SECURITY ACCESS CONTROL SUPPLIER.	CENTER USP
	9. FURNISH AND INSTALL A 15/1 POLE BREAKER IN EXISTING DEMOLISHED CIRCUIT FOR EXISTING PANEL H5HP. USE TO FEED EQUIPMENT UNIT AS SHOWN. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR	COMPLIANCE
	WIRING DETAILS. 10. FURNISH AND INSTALL A 20/1 POLE BREAKER IN EXISTING DEMOLISHED CIRCUIT FOR EXISTING PANEL H5HP. USE TO FEED EQUIPMENT AS SHOWN. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR WIRING DETAILS.	100 Lake Traverse Drive Sisseton, SD 57262
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		drawn by: _LLA
		I hereby certify that this plan, specification, or report was prepared by me or under my
		direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota.
FA		signature: Study
		name: JAY S. HRUBY P.E. reg. #: 8782
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JRAL DRAWINGS AND SPECIFICATIONS CONSTRUCTION. COORDINATE WITH IRUCTION.	1. RELOCATE EXISTING PANELBOARD H7HP TO THIS LOCATION. EXTEND WIRING AND CONDUITS FOR CONNECTIONS TO EXISTING EQUIPMENT. REFER TO	CSgW communitie through architectur
NTRACTOR SHALL BE RESPONSIBLE ELECTRICAL ITEMS SHOWN ON THIS	 RELOCATE EXISTING POWER POLE FOR DISPENSING UNIT AND ADJACENT EQUIPMENT TO NEW LOCATION SHOWN. PROVIDE POWER AND DATA CONNECTIONS 	duluth ° virginia ° twin cities
TED TO A 20A. BRANCH CIRCUIT NDIVIDUAL RECEPTACLE (SIMPLEX OR ECEPTACLE SHALL BE RATED AT 20A.	FOR THE UNIT AND ADJACENT EQUIPMENT UTILIZING EXISTING L4UPS CIRCUITS AND SIX (6) DATA CONNECTIONS.	www.asgw.com
NS AND ROUGH-IN REQUIREMENTS OF NISHED EQUIPMENT PRIOR TO ROUGH-	3. FURNISH AND INSTALL A POWER POLE FROM CEILING TO FLOOR TO FEED POWER AND DATA TO EACH WORKSTATION AS SHOWN. UTILIZE WIREMOLD SERIES 250TC BLANK POLE OR EQUAL. PROVIDE FOR CUSTOM	WOODROW
R NUMBER OF CONDUCTORS TO FING AND SWITCHING SHOWN.	COLOR. COORDINATE WITH ARCHITECT ON COLOR SELECTION.	WUSON
EAKERS (SEE PANELBOARD ANCH CIRCUITS SHALL BE SIZED THE CIRCUIT BREAKER RATING, ED OTHERWISE ON THE ELECTRICAL	FEEDS TO WORKSTATION WIREMOLD RUNS. COORDINATE WITH WORKSTATION SUPPLIER FOR INSTALLATION. UTILIZE LFMC CONDUIT AS NEEDED FOR CONNECTIONS FROM JUNCTION BOXES.	KEEBLE
EDULE. NDUCTORS FOR 20 AMPERE, 120 VOLT S LONGER THAN 75 FEET, UNLESS	5. FURNISH AND INSTALL TWO (2) SETS OF WIREMEOLD AL5200 SERIES RACEWAY TO ACCOMMODATE POWER AND DATA RECEPTACI ES AS SHOWN, INSTALL ONE (1)	MEMORIAI
DICATED OTHERWISE. THIS SHALL BE HE ENTIRE LENGTH OF THE CIRCUIT.	SET TO FEED EACH SIDE OF RECEPTACLES AS SHOWN UNDER WORKSTATION COUNTER. COORDINATE WITH THE WORKSTATION SUPPLIER ON INSTALLATION. PROVIDE LEMC FEED WHIPS AS NEEDED	HEALTH CADE
ITS OF ALL DEVICES WITH INTERIOR ELEVATIONS AND DRAWINGS.	 FURNISH AND INSTALL ROUGH-IN BOXES AND CAT 6 CABLING FOR NEW CAMERAS AS SHOWN. RUN CABLING TO EXISTING NETWORK SYSTEM IN DOOM 140/042 FOR 	CENTED LICD
ED FROM UPS CIRCUITS SHALL BE RED PTACLES FED FROM L4COM PANEL SE IN COLOR. NORMAL RECEPTACLES COORDINATE WITH OWNER ON	MONITORING OF THE PHARMACY AREA. CAMERAS, OTHER EQUIPMENT, TERMINATIONS AND PROGRAMMING TO BE PROVIDED BY OWNER'S SECURITY VENDOR. COORDINATE WITH OWNER'S	COMPLIANCE
RACTOR SHALL PROVIDE ROUGH-IN AND 120-VOLT POWER FOR SECURITY	 FURNISH AND INSTALL ROUGH-IN BOXES AND CABLING TO ROOM P10 FOR CARD READERS. CARD READERS, 	100 Lake Traverse Drive
NTROL EQUIPMENT. EQUIPMENT ND TESTING SHALL BE BY THE R. COORDINATE WIRING WITH VENDOR SUPPLYING	EQUIPMENT, TERMINATIONS AND PROGRAMMING TO BE PROVIDED BY OWNER'S SECURITY VENDOR. COORDINATE WITH THE OWNER'S SECURITY ACCESS CONTROL SUPPLIER.	Sisseton, SD 57262
L PROVIDE ALL RACEWAYS FOR LOW- SPECIFIED IN DIVISION 27.	8. FURNISH AND INSTALL AN AIPHONE MASTER STATION IX-MV7 TO BE LOCATED ON WALL. PROVIDE A CAT 6 CABLE CONNECTION FROM NETWORK IN ROOM P12. WIRE AND PROGRAM FOR OPERATION WITH UNITS REF:	
TRACTOR TO VERIFY POWER AND WITH OWNER'S FURNITURE LAYOUT _ATION.	PLAN NOTE 9. 9. FURNISH AND INSTALL A VANDAL RESISTANT AIPHONE DOOR STATION IX-DV UNIT TO BE SIP COMPATIBLE FOR	project #: <u>020053.00</u> date: <u>07/22/2022</u>
RACTOR SHALL COORDINATE COLOR CEPTACLES WITH OWNER.	OPERATION WITH AN AIPHONE MASTER STATION IX-MV7 AS PER PLAN NOTE 8. PROVIDE A CAT 6 CONNECTION TO NETWORK IN ROOM P12. PROVIDE PROGRAMMING AND WIRING TO OPEN RESPECTIVE DOORS FROM THE	drawn by: _LLA checked by: _LDB
	MASTER STATION. 10. PROVIDE POWER FEED AND CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH THE	I hereby certify that this plan,
	MECHANICAL CONTRACTOR. 11. EXISTING REFRIGERATOR. PROVIDE A 20/1 POLE GFI BREAKER IN PANEL L4N2 TO FEED UNIT.	specification, or report was prepared by me or under my direct supervision and that I am a
	12. RELOCATE EXISTING CAMERA AND ASSOCIATED EQUIPMENT TO NEW LOCATION SHOWN. PROVIDE NEW CABLING AS NEEDED FROM ROOM T40/P12. TERMINATIONS AND PROGRAMMING FOR SATISFACTORY OPERATION TO BE PROVIDED BY	auty Licensed Professional Engineer under the laws of the State of South Dakota.
	 SATISFACTORY OPERATION TO BE PROVIDED BY OWNER'S SECURITY VENDOR. 13. FURNISH AND INSTALL A NEW 208/120 VOLT 3 PHASE 4 	signature: Aug Kung
	WIRE PANEL L4COM2. FEED THIS PANEL VIA A 100 AMP 3 PHASE 4 WIRE CIRCUIT FROM PANEL L4COM IN ROOM P10. UTILIZE FOUR (4) #2 AWG PLUS ONE (1) #8 GROUND IN 1 ½" CONDUIT. PROVIDE FEEDS TO WORKSTATION CIRCUITS AS SHOWN. SEE SHEET E3.1 FOR PANEL L4COM LOCATION.	reg. #: sign date:07/22/2022
	14. EXISTING RELOCATED DISPENSING EQUIPMENT. CONTRACTOR TO PROVIDE POWER AND DATA CONNECTIONS FROM POWER POLE AS PER PLAN NOTE 2.	<u>edi-dolej</u> s
	15. FURNISH AND INSTALL A NEW 208/120 VOLT 3 PHASE 4 WIRE PANEL L4N2. FEED THIS PANEL VIA A 100 AMP 3 PHASE 4 WIRE CIRCUIT FROM PANEL L4N IN ROOM P10. UTILIZE FOUR (4) #2 AWG PLUS ONE (1) #8 GROUND IN 1 ½" CONDUIT. PROVIDE FEEDS TO NORMAL CIRCUITS AS	Consulting engineers minneapolis mankato1112 North 5th Street Minneapolis, MN 55411 (612) 343-59651624 North Riverfront Drive Mankato, MN 56001 (507) 625-7869
	SHOWN. SEE SHEET E3.1 FOR PANEL L4N LOCATION. 16. PROVIDE TAMPER RESISTANT RECEPTACLE AT THIS LOCATION.	
	17. PROVIDE INDIVIDUAL CIRCUIT TO RECEPTACLE AS SHOWN FOR FEEDING MECHANICAL EQUIPMENT.	
	18. FURNISH AND INSTALL NEW FIRE ALARM DEVICES AS SHOWN. CONNECT TO EXISTING FIRE ALARM SYSTEM. EXISTING FIRE ALARM IS AN ADDRESSABLE UNIT KIDDE VS4 LOCATED IN ROOM H03.	revision / issue no. date Addendum #1 1 000000
	19. EXISTING GENERATOR ALARM AND ANNUNCIATOR PANEL TO BE RELOCATED TO THIS LOCATION. EXTEND WIRING AS NEEDED. TEST AND VERIFY SATISFACTORY OPERATION.	Autentium #1 1 9/10/24
	20. CONTRACTOR TO COORDINATE WITH OWNER'S SECURITY VENDOR ON THE DESIRED LOCATION OF THE EXISTING AND NEW CEILING MOUNTED CAMERAS, MOTION SENSORS AND OTHER SECURITY DEVICES. PROVIDE CABLING AS NEEDED TO ROOM T40/P12. COORDINATE LOCATIONS WITH LIGHTING AND HVAC EQUIPMENT.	
	21. FURNISH AND INSTALL A NEW CEILING SPEAKER. CONNECT TO EXISTING PHARMACY ZONE AREA. MATCH TO EXISTING SPEAKERS. COORDINATE LOCATIONS WITH LIGHTING AND HVAC EQUIPMENT.	
	22. ROUTE ALL DATA POINTS IN THESE SPACES TO RACKS IN ROOM T40/P12. COORDINATE WITH OWNER'S IT PERSONNEL.	
	 23. FURNISH AND INSTALL A FOUR (4) CIRCUIT FEED TO SYSTEM FURNITURE AS SHOWN. UTILIZE #10 AWG FOR PHASE, NEUTRAL AND GROUND CIRCUITS IN ¾" CONDUIT. PROVIDE WHIPS AS NEEDED FOR FEEDS TO SYSTEM FURNITURE. COORDINATE WITH SUPPLIER. TIE HANDLES OF CIRCUIT BREAKERS FEEDING SYSTEM FURNITURE. 24. FURNISH AND INSTALL FOUR (4) 20 AMP DUPLEX RECEPTACLES PER STATION AS SHOWN. COORDINATE 	FLOOR PLAN - PHASE 2 - POWER sheet & SYSTEMS
	WITH SYSTEMS FURNITURE SUPPLIER.	title: sheet number: F33

			LIC	SHT	NG	FIXT	URE S	CHED	ULE				
TYPE	DESCRIPTION	LENS-LOUVER	MOUNTING	VOLT	WATT	LAMP COLOR	LUMENS	LUMENS PER WATT	BALLAST	MANUFACTURERS	CATALOG SERIES	APPROVED ALTERNATE MANUFACTURES	NOTE
А	1' X 4' HIGH PERFORMANCE TROFFER	HOURGLASS LENS	RECESSED IN GRID	120 V	65 W	4000K	6718 lm	103 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-1X4-HRG-7200LM-90CRI-40K-MIN10-ZT-M VOLT-DWAM		2
AE	1' X 4' HIGH PERFORMANCE TROFFER (EMERGENCY)	HOURGLASS LENS	RECESSED IN GRID	120 V	65 W	4000K	6718 lm	103 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-1X4-HRG-7200LM-90CRI-40K-MIN10-ZT-M VOLT-GTD-DWAM		1,2
В	2' X 4' HIGH PERFORMANCE TROFFER	HOURGLASS LENS	RECESSED IN GRID	120 V	40 W	4000K	4197 lm	105 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X4-HRG-4800LM-90CRI-40K-MIN10-ZT-M VOLT-DWAM		2
BE	2' X 4' HIGH PERFORMANCE TROFFER (EMERGENCY)	HOURGLASS LENS	RECESSED IN GRID	120 V	40 W	4000K	4197 lm	105 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X4-HRG-4800LM-90CRI-40K-MIN10-ZT-M VOLT-GTD-DWAM		1,2
BF	2' X 4' HIGH PERFORMANCE TROFFER (WITH DRYWALL GRID ADAPTER)	HOURGLASS LENS	RECESSED IN GYP	120 V	40 W	4000K	4197 lm	105 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X4-HRG-4800LM-90CRI-40K-MIN10-ZT-M VOLT-DWAM-DGA24		2
E1	<varies></varies>		RECESSED	120 V	5 W	RED				LITHONIA	EDGR-1-R		
G	1' X 4' HIGH PERFORMANCE TROFFER	HOURGLASS LENS	RECESSED IN GRID	120 V	33 W	4000K	3684 lm	112 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-1X4-HRG-4000LM-90CRI-40K-MIN10-ZT-M VOLT-DWAM		2
GE	1' X 4' HIGH PERFORMANCE TROFFER (EMERGENCY)	HOURGLASS LENS	RECESSED IN GRID	120 V	33 W	4000K	3684 lm	112 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-1X4-HRG-4000LM-90CRI-40K-MIN10-ZT-M VOLT-GTD-DWAM		1,2
Н	2' X 4' HIGH PERFORMANCE TROFFER	HOURGLASS LENS	RECESSED IN GRID	120 V	40 W	4000K	4882 lm	122 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X4-HRG-4800LM-80.CRI-40K-MIN10-ZT-M VOLT-DWAM		2
J	2' X 2' HIGH PERFORMANCE TROFFER	HOURGLASS LENS	RECESSED IN GRID	120 V	36 W	4000K	4228 lm	117 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X2-HRG-4000LM-80CRI-40K-MIN10-ZT-M VOLT-DWAM		2
JE	2' X 2' HIGH PERFORMANCE TROFFER (EMERGENCY)	HOURGLASS LENS	RECESSED IN GRID	120 V	36 W	4000K	4228 lm	117 lm/W	0-10V LED DRIVER	LITHONIA	ENVX-2X2-HRG-4000LM-80CRI-40K-MIN10-ZT-M VOLT-GTD-DWAM		2
KE	2' X 4' PHARMACY HAZARDOUS AREA TROFFER	SYMETRIC DIFFUSED IMPACT-RESISTANT ACRYLIC LENS	RECESSED IN CEILING	120 V	72 W	4000K	9331 lm	130 lm/W	0-10V LED DRIVER	KENALL	CSEDO-24-67L-40K8-DIM1-DV-XF-XH-SYM-LEL-P 442		1,2
U2	2' LONG UNDERCABINET WITH WHITE STEEL HOUSING	100% DR ACRYLIC LENS	UNDERCABINET	120 V	14 W	4000K	1209 lm	86 lm/W	LED DRIVER	KENALL	MAUCLED-I-MW-13C43K-24-DV		
U3	3' LONG UNDERCABINET WITH WHITE STEEL HOUSING	100% DR ACRYLIC LENS	UNDERCABINET	120 V	29 W	4000K	2390 lm	82 lm/W	LED DRIVER	KENALL	MAUCLED-I-MW-25C43K-36-DV		

GENERAL NOTES:

A. ALL LIGHT FIXTURE LUMEN VALUES LISTED ARE DELIVERED LUMEN.

B. REFER TO DETAILS FOR INDEPENDENTLY SUPPORTING OF LIGHT FIXTURES LOCATED IN ACOUSTICAL TILE CEILINGS.

C. ALL LED DRIVERS SHALL BE 0-10 VOLT DIMMING DRIVER UNLESS NOTED OTHERWISE.

D. ALL ADDITIONAL HARDWARE FOR MOUNTING OF SURFACE, RECESSED, OR PENDANT FIXTURES SHALL BE INCLUDED UNDER THIS CONTRACT.

E. REFER TO THE MANUFACTURES INSTALLATION INSTRUCTIONS FOR THE MOUNTING REQUIREMENTS OF EACH FIXTURE TYPE PRIOR TO THE INSTALLATION OF THE FIXTURES. GOOD WORKMANSHIP SHALL BE EVIDENT IN THE FINISHED INSTALLATION OR THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO CORRECT THE POOR WORKMANSHIP AT NO ADDITIONAL COST TO THE OWNER.

F. EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN INTEGRAL ILLUMINATED TEST SWITCH.

G. REFER TO SPECIFICATION SECTION 26 5100 - INTERIOR LIGHTING, FOR ADDITIONAL FIXTURE REQUIREMENTS.

H. COORDINATE WITH ARCHITECTURAL CEILING GRID TYPE WITH FIXTURES SPECIFIC GRID TYPE MOUNTING.

SCHEDULE NOTES:

1. PROVIDE EMERGENCY GENERATOR TRANSFER DEVICE TO CONTROL EMERGENCY POWER.

2. PAINT AFTER FABRICATION.

				E	LEC	TRIC	CAL E	QUI	PMEN	T SCHE	DULE						
				LOAD							STARTER		CONTROL DE	VICE	DISCONNE	СТ	
NO.	DESCRIPTION	LOCATION (RM#)	HP	FLA	MCA	VOLT	PHASE	PANEL	CIRCUIT NUMBER	CONDUIT & WIRE SIZE	COMPONENT	FURN. / INST.	COMPONENT	FURN. / INST.	COMPONENT	FURN. / INST.	NOTES
EBB1-1	ELECTRIC BASEBOARD HEATER			4.6 A	6 A	277 V	1	H5HP	41	(1/2")C-2#12, #12 GND					MFGR	MFGR MFGR	1
EBB1-2	ELECTRIC BASEBOARD HEATER			4.6 A	6 A	277 V	1	H5HP	41	(1/2")C-2#12, #12 GND					MFGR	MFGR MFGR	1
EBB1-3	ELECTRIC BASEBOARD HEATER			4.6 A	6 A	277 V	1	H5HP	43	(1/2")C-2#12, #12 GND					MFGR	MFGR MFGR	1
EBB1-4	ELECTRIC BASEBOARD HEATER			4.6 A	6 A	277 V	1	H5HP	43	(1/2")C-2#12, #12 GND					MFGR	MFGR MFGR	1
EBB1-5	ELECTRIC BASEBOARD HEATER	RX104		4.6 A	6 A	277 V	1	H7HP	27	(1/2")C-2#12, #12 GND					MFGR	MFGR MFGR	1
EDH-1	ELECTRIC DUCT HEATER	RX102		6 A	8 A	480 V	3	H7HP	19,21,23	(1/2")C-3#12, #12 GND					30/3 FS NEMA 1	DIV. 26 DIV. 26	1
EDH-2	ELECTRIC DUCT HEATER			6 A	8 A	480 V	3	H7HP	14,16,18	(1/2")C-3#12, #12 GND					30/3 FS NEMA 1	DIV. 26 DIV. 26	1
EDH-3	ELECTRIC DUCT HEATER			6 A	8 A	480 V	3	H7HP	26,28,30	(1/2")C-3#12, #12 GND					30/3 FS NEMA 1	DIV. 26 DIV. 26	1
EDH-4	ELECTRIC DUCT HEATER			6 A	8 A	480 V	3	H7HP	20,22,24	(1/2")C-3#12, #12 GND					30/3 FS NEMA 1	DIV. 26 DIV. 26	1
EF-14	EXHAUST FAN #14	ON ROOF	3/4	1.6 A	2 A	480 V	3	H7HP	13,15,17	(1/2")C-3#12, #12 GND	VFD	DIV. 26 DIV. 26			30/3 FS NEMA 1	DIV. 26 DIV. 26	2
FFU-1	FAN FILTER UNIT #1	RX106		3.4 A	4 A	120 V	1	L4N2	29	(1/2")C-2#12, #12 GND				DIV. 23 DIV. 23	MMS	DIV. 26 DIV. 26	3
FFU-2	FAN FILTER UNIT #2	RX107		3.4 A	4 A	120 V	1	L4N2	31	(1/2")C-2#12, #12 GND				DIV. 23 DIV. 23	MMS	DIV. 26 DIV. 26	3
HP-14	HEAT PUMP	RX102		11.7 A	15 A	277 V	1	H7HP	25	(3/4")C-3#10, #10 GND					30/3 NFS NEMA1	DIV. 26 DIV. 26	1
HP-15	HEAT PUMP			7.5 A	9 A	277 V	1	H5HP	47	(3/4")C-3#10, #10 GND					30/3 NFS NEMA1	DIV. 26 DIV. 26	1
HP-16	HEAT PUMP			8.2 A	10 A	277 V	1	H5HP	45	(3/4")C-3#10, #10 GND					30/3 NFS NEMA1	DIV. 26 DIV. 26	1
HP-17	HEAT PUMP			11.7 A	15 A	277 V	1	H5HP	53	(3/4")C-3#10, #10 GND					30/3 NFS NEMA1	DIV. 26 DIV. 26	1
TF-1	TRANSFER FAN #1	RX102	3/4	6 A	8 A	277 V	1	H7HP	8	(1/2")C-2#12, #12 GND					30/3 FS NEMA 1	DIV. 26 DIV. 26	1

STARTER TYPES:

FVNRFULL VOLTAGE NON-REVERSINGFVRFULL VOLTAGE REVERSING2-SPDTWO SPEED

VFD VARIABLE FREQUENCY DRIVE RVS REDUCED VOLTAGE COMBINATION DISCONNECT TYPES:FSFUSED SWITCHNFSNON-FUSED SWITCHMCPMOTOR CIRCUIT PROTECTORCBCIRCUIT BREAKER

CONTROL DEVICES:HOAHAND-OFF-AUTO SWITCHRPRED (RUN) PILOT LIGHTGPGREEN (POWER) PILOT LIGHT0/0ON-OFF SELECTOR SWITCHS/SSTOP-START PUSHBUTTONS

NOTES:

CONNECT POWER TO UNIT VIA DISCONNECT SWITCH. BAS CONTROL WIRING BY BAS CONTRACTOR.
 CONNECT POWER TO UNIT VIA STARTER AND FUSED DISCONNECT SWITCH. BAS CONTROL WIRING BY BAS CONTRACTOR.
 PROVIDE SINGLE POINT CONNECTION TO UNIT. DISCONNECT BY DIVISION 26.

ABBREVIATIONS:ECELECTRICAL CONTRACTORMCMECHANICAL CONTRACTORGCGENERAL CONTRACTORTCTEMPERATURE CONTROLOWNOWNER

enriching communities througl architecture duluth * virginia* twin cities www.dsgw.com WOODROW WILSON Keeble MEMORIAL HEALTH CARE CENTER USP COMPLIANCE 100 Lake Traverse Drive SISSETON, SD 57262 project #: <u>020053.00</u> date: 07/22/2022 drawn by: _LLA___ checked by: LDB I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota. N M Lay Huby signature: printed JAY S. HRUBY P.E. name: _ reg. #: _____8782____ sign date: ____07/22/2022 consulting engineers minneapolis | mankato 1112 North 5th Street 1624 North Riverfront Drive Minneapolis, MN 55411 Mankato, MN 56001 (612) 343-5965 (507) 625-7869 revision / date issue no. Addendum #1 9/10/24 Schedules sheet **ELECTRICAL** sheet number: E4.1

		NE	WP	AN	IELE	BOA	RD:	L4N	2								
LOCATION: PHAR MOUNTING: RECE MAIN DEVICE: 100 A BUS AMPS: 225 A	MACY F SSED MPS	X102 NEMA MAIN	A1 CB			VOI A.I.C. R SP	TAGE: ATING: ECIAL:	208Y/12 10,000 A	20 V. 3 Ø 4 AMPS SY	· W. MMETF	RICAL						
LOAD DESCRIPTION	Notes	BKR	POLES	скт		4		В	C	•	СКТ		BKR	Notes	10		
RCPT ROOM N10. N13	Notes	20 A	1	1	360	1200					2	1	20 A	1	REFRI	GERATOR PHARMA	CY RX102
RCPT CONTROLLED SUBSTANCES N14		20 A	1	3			180	1200	1		4	1	20 A		RCPT NON CO	DNVENIENCE CONT	ROLLED
RCPT ROOM N10		20 A	1	5					180	360	6	1	20 A		RCPT CONT	ROLLED SUBSTANC	ES RX109
RCPT ROOM N10		20 A	1	7	360	360					8	1	20 A		RCPT CONT	ROLLED SUBSTANC	ES RX109
RCPT HOOD RX107		20 A	1	9			180	0	1		10	1	20 A				SPARE
RCPT ROOM RX106 RX107		20 A	1	11					540	0	12	1	20 A				SPARE
RCPT WAITING N01		20 A	1	13	720	0				•	14	1	20 A				SPARE
TV RCPT WAITING N01		20 A	1	15	120	5	180	0	-		16	1	20 Δ				SPARE
REFRIGERATOR STAFE ENTRY RY101	1	20 A	1	17			100	U	1200	0	18	1	20 1				
	1	20 A	1	10	720	0			1200	U	20	1	20 A				
		20 A	1	21	120	0	360	0	-		20	1	20 A				
	1	20 A	1	21			300	0	360	0	22	1	20 A				
	1	20 A	1	23	1200	0			500	0	24	1	20 A				
	1	20 A	1	20	1200	0	1000	0	-		20	1	20 A				
	I	20 A	1	21			1200	0	400	0	20	1	20 A				
		20 A	1	29	400	0			408	0	30	1	20 A				
FFU-2		20 A	1	31	408	0	0	0	-		32	1	20 A				SPARE
SPARE		20 A	1	33			0	0			34	1	20 A				SPARE
SPARE		20 A	1	35					0	0	36	1	20 A				SPARE
SPARE		20 A	1	37	0	0	-		-		38	1	20 A				SPARE
SPARE		20 A	1	39			0	0			40	1	20 A				SPARE
SPARE		20 A	1	41					0	0	42	1	20 A				SPARE
		Т	OTAL LO	DAD:	532	8 VA	330	0 VA	3048	VA							
		T	OTAL AI	MPS:	45	δA	28	B A	25	A							
LOAD CLASSIFICATION		CONN	NECTED			DEMAND)	E	STIMATE	D				PA	NEL TOTALS	3	
RCPT		486	60 VA			100.00%			4860 VA								
MTR		81	6 VA			100.00%			816 VA				C	ONNE	CTED LOAD:	11676 VA	
RCPT NON CONVENIENCE		600	00 VA			100.00%			6000 VA				ES	ΓΙΜΑΤΕ	D DEMAND:	11676 VA	
													CONN	IECTE	O CURRENT:	32 A	
													EST. D	EMAN	O CURRENT:	32 A	
GENERAL NOTES:																	
A. PROVIDE WITH INTEGRALLY MOUNTED	TRANSIE	ENT VOLT	FAGE SUF	RGE SU	IPPRESS	ON.		C. PRC	OVIDE MA	IN BRE	EAKEF	R WITH 1	120-VOI	_T SHU	NT TRIP		
B. MAIN BREAKER SHALL BE UL SERIES R	ATED TO	BRANCH	I CIRCUIT	PANE	LBOARD	BREAKER	FUSES.										
LABEL AS PER NEC																	
NOTES:																	
1. PROVIDE GFCI BREAKER.																	
2. PROVIDE WITH 120-VOLT SHUNT TRIP																	

		NE		IELE	BOA	RD:	L5N	B								
LOCATION: WORK F MOUNTING: RECESS MAIN DEVICE: 200 A BUS AMPS: 200 AMF	ROOM SED PS	I 103 NEMA MLO	1		VOI A.I.C. R SF	LTAGE: ATING: PECIAL:	208Y/12 10,000 A	0 V. 3 ø 4 MPS SY	W. MMETR	RICAL						
LOAD DESCRIPTION	Notes	BKR	POLES CKT	1	A	E	;	c		скт	POLES	BKR	Notes	LO	AD DESCRIPTION	
RCPT WORK ROOM 103		20 A	1 1	540	0			-		2	1	20 A				SPARE
REFRIGERATOR RCPT WORK ROOM 103	1	20 A	1 3		1	1200	0			4	1	20 A				SPARE
UC REFRIGERATOR RCPT WORK ROOM 103	1	20 A	1 5					1200	0	6	1	20 A				SPARE
RCPT OFFICE 1 104		20 A	1 7	900	0	1				8	1	20 A				SPARE
RCPT OFFICE 2 105		20 A	1 9			900	0			10	1	20 A				SPARE
RCPT OFFICE 3 106		20 A	1 11			'		900	0	12	1	20 A				SPARE
RCPT OFFICE 4 107		20 A	1 13	900	0					14	1	20 A				SPARE
RCPT COORIDOOR 102		20 A	1 15		1	540	0			16	1	20 A				SPARE
RCPT OFFICE 5 108		20 A	1 17					900	0	18	1	20 A				SPARE
RCPT OFFICE 6 109		20 A	1 19	900	0	1				20	1	20 A				SPARE
RCPT OFFICE 7 110		20 A	1 21		1	900	0			22	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 23					360	0	24	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 25	360	0	1				26	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 27		1	360	0			28	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 29					360	0	30	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 31	360	0	-				32	1	20 A				SPARE
RCPT FLEX SPACE 101		20 A	1 33		1	540	0			34	1	20 A				SPARE
SPARE		20 A	1 35					0	0	36	1	20 A				SPARE
SPARE		20 A	1 37	0	0					38	1	20 A				SPARE
SPARE		20 A	1 39			0	0			40	1	20 A				SPARE
SPARE		20 A	1 41					0	0	42	1	20 A				SPARE
		тс	DTAL LOAD:	396	0 VA	4440	VA	3720	VA							
	-	тс	DTAL AMPS:	33	3 A	37	А	31	A							
LOAD CLASSIFICATION		CONN	ECTED		DEMAN)	ES	STIMATE	D				PA	NEL TOTALS		
RCPT		972	0 VA		100.00%			9720 VA								
RCPT NON CONVENIENCE		240	0 VA		100.00%			2400 VA				С	ONNE	CTED LOAD:	12120 VA	
												EST	IMATE	D DEMAND:	12120 VA	
												CONN	ECTE	CURRENT:	34 A	
												EST. D	EMAND	CURRENT:	34 A	
GENERAL NOTES:																
A. PROVIDE WITH INTEGRALLY MOUNTED TI	RANSIE	NT VOLT	AGE SURGE SU	IPPRESSI	ION.		C. PRC	VIDE MA	IN BRE	AKEF	R WITH 1	120-VOL	T SHU	NT TRIP		
B. MAIN BREAKER SHALL BE UL SERIES RAT	ED TO	BRANCH	CIRCUIT PANE	LBOARD I	BREAKER	/FUSES.										
LABEL AS PER NEC																
NOTES:																
1. PROVIDE GFCI BREAKER.																
2. PROVIDE WITH 120-VOLT SHUNT TRIP																

	EXIS	511N	IG P		IELE	SOA	RD:	H7F	IP								
LOCATION: PH	IARMACY F	RX102			-	VO	LTAGE:	480Y/27	7 V. 3 ø	4 W.							
MOUNTING: RE	CESSED	NEMA	\1			A.I.C. F	RATING:	14,000 /	AMPS S	YMMETF	RICAL	•					
MAIN DEVICE: 10	0 A	MAIN	СВ			SF	PECIAL:										
BUS AMPS: 12	5 AMPS																
LOAD DESCRIPTION	Notes	BKR	POLES	скт		A		В		С	скт	POLES	BKR	Notes	LO	AD DESCRIPTION	
HP12	3	20 A	1	1	0	0					2	3	15 A	3			EDH
HP6	3	30 A	1	3			0	0			4						
SPARE	3	20 A	1	5					0	0	6						
HEPA DIFFUSERS RM N09, N09A	3	20 A	1	7	0	1662					8	1	20 A	4			TF
SPARE	3	20 A	1	9			0	0			10	1	20 A				SPAR
SPARE	3	20 A	1	11		_			0	0	12	1	20 A				SPAR
EF-14	4	15 A	3	13	443	1663		- I	_		14	3	15 A			EDH-2 - FLEX	SPACE 10
				15			443	1663		-	16						
				17		1			443	1663	18						
EDH-1	4	15 A	3	19	1663	1663					20	3	15 A			EDH-3 FLEX	SPACE 10
				21			1663	1663			22						
				23		1			1663	1663	24						
HP-14- PHARMACY RX102		20 A	1	25	3241	1663					26	3	15 A			EDH-4 COOF	RIDOOR 10
EBB1-5		20 A	1	27			1274	1663			28						
				29						1663	30						
		T		DAD:	1199	97 VA	836	58 VA	709	A VA	_						
				MPS:	44		3		2	6 A							
		CONN					D	E	511MA1	=D				PA	NEL IOTAL	5	
MIR		274	60 VA			100.00%	1		27460 VA	1						07400.14	
															D DEMAND	27460 VA	
													ES		D DEMAND:	27460 VA	
															CURRENT.	33 A	
													201.0			55 A	
GENERAL NOTES																	
	TED TRANSIE		AGE SUB	GE SI	IPPRESS	ION		C PRO	VIDE M	AIN BRF	AKF	R WITH [·]	120-VOI	T SHU			
B MAIN BREAKER SHALL BE UL SERIE	S RATED TO	BRANCH				BRFAKER	R/FUSES				_,						
LABEL AS PER NEC		Divitor		17.01	2007 11 10		VI 0020.										
NOTES:																	
1 PROVIDE GECI BREAKER																	
2. PROVIDE WITH 120-VOLT SHUNT TR	IP																
3. EXISTING CIRCUIT																	
4. NEW CIRCUIT PROVIDE NEW BREAK	KER.																

	NE	W P	AN	IELE	BOA	RD:	L4C	OM2	2						
LOCATION: PHARMACY MOUNTING: RECESSED MAIN DEVICE: 100 A BUS AMPS: 225 AMPS	RX102 NEM MAIN	A1 I CB			Voi A.I.C. R Sf	LTAGE: RATING: PECIAL:	208Y/12 10,000 /	20 V. 3 Ø 4 AMPS SY	4 W. MMETF	RICAL					
LOAD DESCRIPTION Note:	BKR	POLES	скт		A	E	3	(;	СКТ	POLES	BKR	Notes	LO	AD DESCRIPTION
RCPT DISP. RX108	20 A	1	1	540	360		-			2	1	20 A			RCPT DISPENSING N09
RCPT DISP. RX108	20 A	1	3			720	360	1		4	1	20 A			RCPT DISPENSING N09
RCPT DISP. RX112	20 A	1	5					900	360	6	1	20 A			RCPT DISPENSING N09
RCPT HAZ STOR RX113	20 A	1	7	1260	360	1				8	1	20 A			RCPT ROOM N10
RCPT OFFICE RX104	20 A	1	9			540	360	1		10	1	20 A			RCPT ROOM N10
RCPT OFFICE RX105	20 A	1	11					720	360	12	1	20 A			RCPT ROOM N10
REFRIGERATOR PHARMACY RX102 1	20 A	1	13	1200	360	1				14	1	20 A			RCPT ROOM N10
RCPT ROOM N10	20 A	1	15		1	720	0	1		16	2	20 A		FL	JRN RCPT PHARMACY RX102
RCPT ROOM N10	20 A	1	17					720	0	18					
RCPT ROOM N10	20 A	1	19	720	0	1				20	2	20 A		Fl	JRN RCPT PHARMACY RX102
RCPT ROOM N10	20 A	1	21		1	720	0	1		22					
RCPT ROOM N10	20 A	1	23					720	0	24	2	20 A		FL	JRN RCPT PHARMACY RX102
RCPT ROOM N10	20 A	1	25	720	0	1				26					
RCPT CONTROLLED SUBSTANCES N14	20 A	1	27		1	180	0	1		28	2	20 A		FL	JRN RCPT PHARMACY RX102
RCPT CONTROLLED SUBSTANCES N14	20 A	1	29					180	0	30					
RCPT PHARMACY RX102	20 A	1	31	360	0	1				32	1	20 A			SPARE
RCPT PHARMACY RX102	20 A	1	33			360	0	1		34	1	20 A			SPARE
RCPT PHARMACY RX102	20 A	1	35					360	0	36	1	20 A			SPARE
RCPT PHARMACY RX102	20 A	1	37	360	0	1				38	1	20 A			SPARE
PRINTERS RCPT PHARMACY RX102	20 A	1	39		1	1200	0	1		40	1	20 A			SPARE
PRINTERS RCPT PHARMACY RX102	20 A	1	41					1200	0	42	1	20 A			SPARE
	Т	OTAL LC	AD:	624	0 VA	5160) VA	5520) VA						
	Т		IPS:	52	2 A	43	8 A	46	A	-					
LOAD CLASSIFICATION	CON	NECTED			DEMANI	D	E	STIMATE	D				PA	NEL TOTALS	6
RCPT	13	320 VA			87.54%			11660 VA							
RCPT NON CONVENIENCE	36	00 VA			100.00%			3600 VA				С	ONNE	CTED LOAD:	16920 VA
												EST	ГІМАТЕ	DEMAND:	15260 VA
												CONN	IECTE	O CURRENT:	47 A
												EST. D	EMAN	O CURRENT:	42 A
GENERAL NOTES: A. PROVIDE WITH INTEGRALLY MOUNTED TRANS B. MAIN BREAKER SHALL BE UL SERIES RATED T LABEL AS PER NEC NOTES:	ient vol D Branch	TAGE SUR	GE SL PANE	IPPRESS LBOARD	ION. BREAKER	/FUSES.	C. PRO	DVIDE M/	AIN BRE	EAKEF	RWITH	120-VOL	T SHU	NT TRIP	
 PROVIDE GFCI BREAKER. PROVIDE WITH 120-VOLT SHUNT TRIP 															



			Ρ	AN	IELE	BOA	RD:	L4N				EXI	STI	NG	
Location: Mounting: Suf Main Device: 150 BUS AMPS: 225	RFACE A AMPS	NEM/ MAIN	A 1 CB			Voi A.I.C. R Sp	LTAGE: ATING: PECIAL:	208Y/12 10,000 A	0 V. 3 ø 4 AMPS SYI	W. MMETR	RICAL				
	Notes	BKR		скт	ŀ	4	E	В	C		СКТ		BKR	Notes	
XISTING LOAD	2	20 A	1	1	0	0		-			2	1	20 A	2	EXISTING L
XISTING LOAD XISTING LOAD	2	20 A 20 A	1	3			0	0	0	0	4	1	20 A 20 A	2	EXISTING L EXISTING L
XISTING LOAD	2	20 A	1	7	0	0		-			8	1	20 A	2	EXISTING L
XISTING LOAD	2	20 A 20 A	1	9 11			0	0	0	0	10	1	20 A 20 A	2	EXISTING L EXISTING L
XISTING LOAD	2	20 A	1	13	0	0	-	1		-	14	1	20 A	2	EXISTING L
XISTING LOAD	2	20 A	1	15			0	0	0	0	16	1	20 A	2	EXISTING L
XISTING LOAD	2	20 A	1	19	0	0	_			0	20	1	20 A	2	EXISTING L
	2	20 A	1	21			0	0	0	0	22	1	20 A	2	EXISTING L
CPT NARCOTICS 2	Z	20 A 20 A	1	23 25	180	0	-			0	24	1	20 A 20 A	2	EXISTING L
CPT TEMP PHARMACY 3		20 A	1	27			540	180	4000	400	28	1	20 A		RCPT NARCOTI
CPT TEMP PHARMACY 3		20 A 20 A	1	29 31	720				1200	180	30	1	20 A		h h
CPT NARCOTICS 2		20 A	1	33			180				34				
CPT NARCOTICS 2	2	20 A 100 A	1	35 37	0				180		36				
				39	0		0				40				
		 T(41 •חאר	900		900		0		42				
		T	OTAL L	MPS:	<u> </u>	A	8	A	1300	ν <u>Α</u> Α					
OAD CLASSIFICATION		CONN			I	DEMANE	D	E	2160 VA	כ				PAN	NEL TOTALS
CPT NON CONVENIENCE		120	AV 00			100.00%			1200 VA				C	ONNEC	TED LOAD: 3360 VA
													ES [.]		D DEMAND: 3360 VA
													EST. D	EMAND	CURRENT: 9A
GENERAL NOTES:															
. EXISTING: SQUARE D															
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~															
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN			P	AN	IELE	30A	RD:	L4C	OM						
T OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150	RFACE	NEMA	Р А 1 СВ	AN	IELE	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A	ON: 3 Ø 4	W. MMETR	RICAL				
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225	RFACE A AMPS	NEMA	Р А 1 СВ	AN	IELE	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 <i>A</i>	OM 0 V. 3 ø 4 AMPS SYI	W. MMETR	RICAL				
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION (ISTING LOAD	RFACE A AMPS Notes	NEMA MAIN BKR	P A 1 CB POLES	CKT	IELE	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A	OV. 3 Ø 4 AMPS SYI	W. MMETR	RICAL	POLES	BKR	Notes	LOAD DESCRIPTION
IOTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION (ISTING LOAD (ISTING LOAD	RFACE A AMPS Notes 2 2 2	NEM4 MAIN BKR 20 A 20 A	Р A 1 CB POLES 1 1 1	Скт 1 3	IELE A	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B	OV. 3 Ø 4 AMPS SYI	W. MMETR	RICAL	POLES 1 1 1	BKR 20 A 20 A	Notes 2 2 2 2 2 2	LOAD DESCRIPTION EXISTING L EXISTING L
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2	NEMA MAIN BKR 20 A 20 A 20 A	P A 1 CB POLES 1 1 1 1	СКТ 1 3 5 7	IELE 0	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B	C	W. MMETR	RICAL 2 4 6 8	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A	Notes 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN BKR 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1	СКТ 1 3 5 7 9	IELE 0 0	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B 0	ON 0 V. 3 Ø 4 AMPS SYI	W. MMETR 0	RICAL 2 4 6 8 10	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A	Notes 2	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN 20 A 20 A 20 A 20 A 20 A 20 A	P A 1 CB POLES 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11	IELE 0 0	BOA Voi A.I.C. R SP	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B 0	ON 3 Ø 4 AMPS SYN	W. MMETR 0	RICAL 2 4 6 8 10 12 14	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEMA MAIN 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15	IELE 0 0	30A VOI A.I.C. R SP A 0 0	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B 0 0	C O V. 3 Ø 4 AMPS SYN C 0 0	W. MMETR	RICAL 2 4 6 8 10 12 14 16	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15 17 40		BOA Voi A.I.C. R SP A 0 0	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B 0 0	ON 0 V. 3 Ø 4 AMPS SYN C 0	W. MMETR 0 0	RICAL 2 4 6 8 10 12 14 16 18	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15 17 19 21		BOA Voi A.I.C. R SP A 0 0 0 720	RD: LTAGE: ATING: PECIAL:	L4C 208Y/12 10,000 A B 0 0 0	C O V. 3 Ø 4 AMPS SYN C 0 0 0	W. MMETR 0 0	RICAL 2 4 6 8 10 12 14 16 18 20 22	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 <td>LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA</td>	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15 17 19 21 23		BOA Voi A.I.C. R SP A 0 0 0 720	RD: LTAGE: ATING: PECIAL: C	L4C 208Y/12 10,000 A B 0 0 0 1200	ON 0 V. 3 Ø 4 AMPS SYN C 0 0	W. MMETR 0 0 0	RICAL 2 4 6 8 10 12 14 16 18 20 22 24 22 24	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 <td>LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA</td>	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27	IELE 0 0 0	BOA Voi A.I.C. R SP A 0 0 0 720	RD: LTAGE: PECIAL: PECIAL:	L4C 208Y/12 10,000 A B 0 0 1200 180	C	W. MMETR 0 0 0	RICAL CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 <td>LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA</td>	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA
OTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SUF MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION XISTING LOAD XISTING LOAD	RFACE A AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM4 MAIN 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 CB 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	IELE 0 0 0	BOA Voi A.I.C. R SP A 0 0 0 0 720 720	RD: LTAGE: PECIAL: PECIAL:	L4C 208Y/12 10,000 A B 0 0 1200 180	C O V. 3 Ø 4 AMPS SYM C 0 0 0 0 0 0 0 0	W. MMETR 0 0 1080 360	CKT 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 <td>LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA</td>	LOAD DESCRIPTION EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L EXISTING L SP SP RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA RCPT TEMP PHARMA
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NOTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SU MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	RFACE 0 A 5 AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM. MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles	CKT 1 3 5 7 9 11 13	NELBOA VO A.I.C. R SF	RD: L4C LTAGE: 208Y/12 RATING: 10,000 / PECIAL: 0 0 0	C	ETRICAL 2 4 6 8 10 12 14	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		OAD DESCRIPTION EXISTING LO, EXISTING LO, EXISTING LO, EXISTING LO, EXISTING LO, EXISTING LO, EXISTING LO, EXISTING LO,
NOTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SU MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	RFACE 0 A 5 AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM. MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles	CKT 1 3 5 7 9 11 13 15 17	NELBOA VO A.I.C. R SF 0 0 0	RD: L4C LTAGE: 208Y/12 ATING: 10,000 / PECIAL: 0 0 0 0	C	ETRICAL 2 4 6 8 10 12 14 16 18	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		OAD DESCRIPTION EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ SPAI
NOTES: PROVIDE GFCI BREAKER. EXISTING LOAD TO REMAIN LOCATION: MOUNTING: SU MAIN DEVICE: 150 BUS AMPS: 225 LOAD DESCRIPTION EXISTING LOAD EXISTING LOAD	RFACE 0 A 5 AMPS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NEM. MAIN BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	CKT 1 1 3 5 7 9 11 13 15 17 19	NELBOA VOI A.I.C. R SF 0 0 0 0 0 0 0 0	RD: L4C	C C C 0 0 0 0 0 0 0 0 0 0 0 0 0	ETRICAL 2 4 6 8 10 12 14 16 18 20	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BKR 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Notes 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		OAD DESCRIPTION EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ EXISTING LO/ SPAI SPAI SPAI
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