

DATE June 8, 2015

**ADDENDUM NO. 1
to the
Iowa Department of Transportation
Proposal No. 14400
For Fairfield Maintenance Facility new exterior wall and insulation
Letting Date: June 17, 2015**

Notice To Bidders:

This Addendum is issued to incorporate the following additions, deletions, corrections, and/or clarifications to the terms or specifications and shall hereby be considered a part of the final contract documents. This Addendum shall supersede, modify and/or change all statements to the contrary in the bid proposal and shall take precedence over previous terms or specifications.

Changes to Drawing Sheets:

Sheet 1, A-1 Floor Plan Notes; Changed EXCAVATE TO KNEE WALL to “EXCAVATE TO CONCRETE SLAB”.

Sheet 1, A-1 Floor Plan Notes; Changed REMOVE 1’ SECTION OF KNEE WALL TO CONSTRUCT NEW WALL to “EXISTING KNEE WALL TO BE REMOVED BY OWNER”.

Sheet 1, A-1 Floor Plan Notes; Changed REMOVE 1’ SECTION OF KNEE WALL TO CONSTRUCT NEW WALL ABOVE SLAB TO ALIGN W/ ADJACENT CMU COURSING to “CONSTRUCT NEW WALL ABOVE SLAB TO ALIGN W/ADJACENT CMU COURSING – KNEE WALL TO BE REMOVED BY OWNER”.

Sheet 1, A-1 Floor Plan Notes; Changed A/C CONDENSOR, REMOVE & REINSTALL to “A/C CONDENSOR, REMOVE & REINSTALL INCLUDING CONCRETE PAD”.

Sheet 2, A-2 NORTH ELEVATION; Added “3/A-4, SIM. TO WINDOW AT HEADER AND SURROUND- TYP @ ALL DOORS”.

Sheet 2, A-2 SOUTH ELEVATION; Changed ELECTRICAL FUEL ISLAND TO REMAIN – INSTALL CMU OVER CONDUIT MAINTAINING ACCESS TO CONNECTIONS. INSTALL 24"X20" MIN. ACCESS PANEL OVER OPENING to “ELECTRICAL FUEL ISLAND TO REMAIN – INSTALL CMU OVER CONDUIT MAINTAINING ACCESS TO CONNECTIONS. INSTALL 24"X20" MIN. ACCESS PANEL OVER OPENING. USE DETAILS 3/A-5 FOR HEADER & 3/A-4 FOR SURROUNDS SIM. TO WINDOWS”.

Sheet 2, A-2 WEST ELEVATION; Changed EXISTING BRINE KNEE WALL TO REMAIN. REMOVE 1’ SECTION TO INSTALL NEW EXTERIOR CMU WALL to “EXISTING BRINE KNEE WALL TO BE REMOVED BY OWNER”.

Sheet 2, A-2 WEST ELEVATION; Changed AUTOMATIC TRANSFER SWITCH TO REMAIN - INSTALL NEW EXTERIOR WALL AROUND UNIT to “AUTOMATIC TRANSFER SWITCH TO REMAIN - INSTALL NEW EXTERIOR WALL AROUND UNIT MAINTAINING NECESSARY ACCESS. USE DETAILS 3/A-5 FOR HEADER & 3/A-4 FOR SURROUNDS SIM. TO WINDOWS”.

Sheet 2, A-2 WEST ELEVATION; Changed COMMUNICATIONS EQUIPMENT TO REMAIN - INSTALL CMU OVER CONDUIT AND INSULATION AROUND BOX - MAINTAIN ACCESS to “COMMUNICATIONS EQUIPMENT TO REMAIN - INSTALL CMU OVER CONDUIT AND INSULATION AROUND BOX - MAINTAIN ACCESS. USE DETAILS 3/A-5 FOR HEADER & 3/A-4 FOR SURROUNDS SIM. TO WINDOWS”.

Sheet 2, A-2 EAST ELEVATION; Changed EXISTING BRINE KNEE WALL - REMOVE 1' TO INSTALL NEW EXTERIOR CMU WALL to **“EXISTING BRINE KNEE WALL TO BE REMOVED BY OWNER”**.

Sheet 2, A-2 EAST ELEVATION; Changed BRINE BUILDING & CONTAINMENT AREA TO REMAIN INCLUDING 6" SLAB to **“BRINE BUILDING & 6" SLAB TO REMAIN”**.

Changes to Specifications:

00 0110 Table of Contents, 1.01 DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS; **Added section “00 4323 – Alternates Form”**.

00 4323 Alternates Form, After section 00 0115 List of Drawing Sheets; **Added section “00 4323 – ALTERNATES FORM”**.

00 0110 Table of Contents, 2.07 DIVISION 07 -- THERMAL AND MOISTURE PROTECTION; **Added section**

“07 4214 – Insulated Metal Wall Panels”.

01 2300 Alternates, 1.04 SCHEDULE OF ALTERNATES; **Added “B. Alternate No. 2 – Insulated Metal Wall Panels”**.

07 2100-2.02 A.7.h. Manufacturers; **Added as approved equal: “Firestone Building Products; Enverge CI Foil Exterior Wall Insulation: www.firestonebpco.com”**.

07 4214 Insulated Metal Wall Panels, After section 07 4213 Metal Wall Panels; **Added section “07 4214 – INSULATED METAL WALL PANELS”**.

All Bidders must sign and return this Addendum for the bid opportunity referenced above. Failure to do so may subject the Bidder to disqualification. If a bid response has already been submitted, this Addendum shall be signed and emailed or faxed to the Purchasing Section prior to the scheduled Letting Date.

Company Name (*please print*)

Date

Signature

Sincerely,



Rhonda Ruark, Purchasing Agent
Phone No. 515-239-1285 Fax No. 515-239-1538
Rhonda.ruark@dot.iowa.gov

SECTION 00 0110
TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

1.01 DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

- A. 00 0101 - Project Title Page
- B. 00 0110 - Table of Contents
- C. 00 0115 - List of Drawing Sheets
- D. 00 4323 - Alternates Form

SPECIFICATIONS

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- B. 01 2000 - Price and Payment Procedures
- C. 01 2300 - Alternates
- D. 01 3000 - Administrative Requirements
- E. 01 3216 - Construction Progress Schedule
- F. 01 4000 - Quality Requirements
- G. 01 5000 - Temporary Facilities and Controls
- H. 01 6000 - Product Requirements
- I. 01 7000 - Execution and Closeout Requirements
- J. 01 7419 - Construction Waste Management and Disposal
- K. 01 7800 - Closeout Submittals

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- A. 04 2000 - Unit Masonry

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- A. 05 5000 - Metal Fabrications

2.06 DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

- A. 06 1000 - Rough Carpentry
- B. 06 1219 - Structural Insulated Panels

2.07 DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

- A. 07 2100 - Thermal Insulation
- B. 07 4213 - Metal Wall Panels
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- B. 08 3613 - Sectional Doors
- 2.09 DIVISION 09 -- FINISHES**
 - A. 09 9000 - Painting and Coating
- 2.10 DIVISION 22 -- PLUMBING**
 - A. 22 1005 - Plumbing Piping
- 2.11 DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)**
 - A. 23 3100 - HVAC Ducts and Casings
- 2.12 DIVISION 26 -- ELECTRICAL**
 - A. 26 0534 - Conduit
- 2.13 DIVISION 31 -- EARTHWORK**
 - A. 31 2316.13 - Trenching
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 - B. 32 1313 - Concrete Paving
 - C. 32 9219 - Seeding

END OF TABLE OF CONTENTS

**SECTION 00 4323
ALTERNATES FORM**

PARTICULARS

1.01 THE FOLLOWING IS THE LIST OF ALTERNATIVES REFERENCED IN THE BID SUBMITTED BY:

1.02 (BIDDER) _____

1.03 TO (OWNER)

1.04 DATED _____ AND WHICH IS AN INTEGRAL PART OF THE BID FORM.

ALTERNATIVES LIST

2.01 THE FOLLOWING AMOUNTS SHALL BE DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 01 2300 - ALTERNATIVES: SCHEDULE OF ALTERNATIVES.

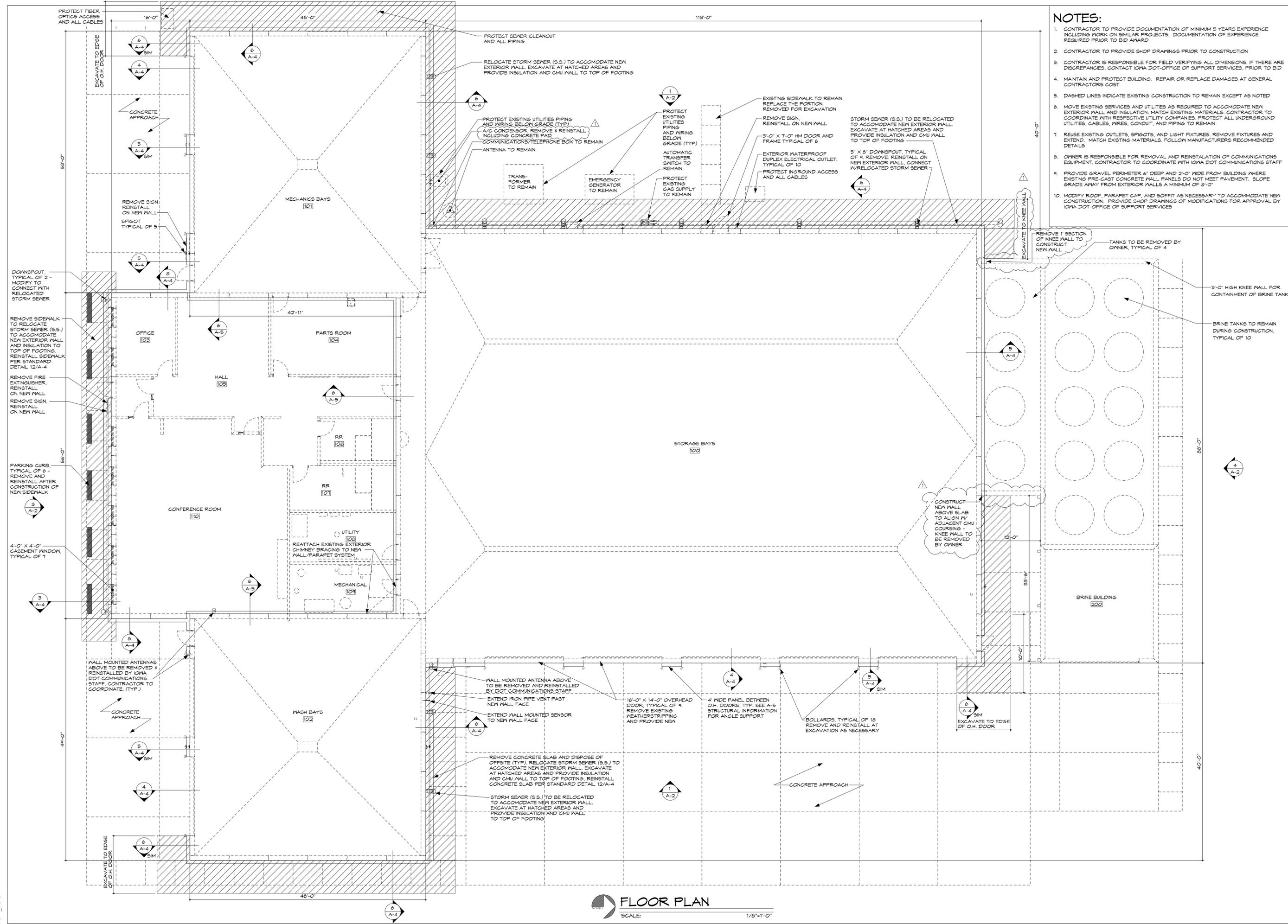
2.02 ALTERNATIVE # 1: (DEDUCT) \$ _____

2.03 ALTERNATIVE # 2: (DEDUCT) \$ _____

END OF SUPPLEMENT C

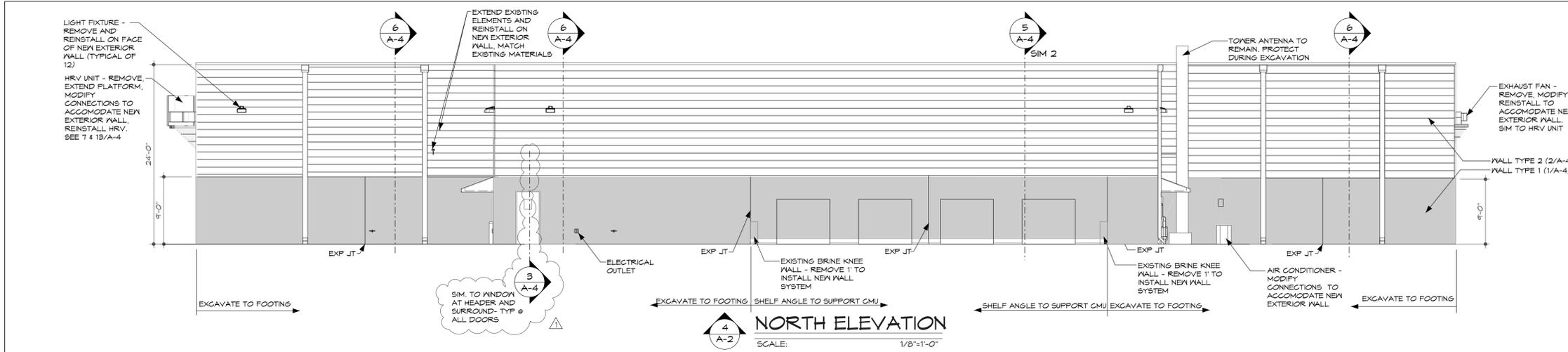
NOTES:

1. CONTRACTOR TO PROVIDE DOCUMENTATION OF MINIMUM 5 YEARS EXPERIENCE INCLUDING WORK ON SIMILAR PROJECTS. DOCUMENTATION OF EXPERIENCE REQUIRED PRIOR TO BID AWARD
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. IF THERE ARE DISCREPANCIES, CONTACT IOWA DOT-OFFICE OF SUPPORT SERVICES, PRIOR TO BID
4. MAINTAIN AND PROTECT BUILDING. REPAIR OR REPLACE DAMAGES AT GENERAL CONTRACTORS COST
5. DASHED LINES INDICATE EXISTING CONSTRUCTION TO REMAIN EXCEPT AS NOTED
6. MOVE EXISTING SERVICES AND UTILITIES AS REQUIRED TO ACCOMMODATE NEW EXTERIOR WALL AND INSULATION. MATCH EXISTING MATERIALS. CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY COMPANIES. PROTECT ALL UNDERGROUND UTILITIES, CABLES, WIRES, CONDUIT, AND PIPING TO REMAIN
7. REUSE EXISTING OUTLETS, SPIGOTS, AND LIGHT FIXTURES. REMOVE FIXTURES AND EXTEND. MATCH EXISTING MATERIALS. FOLLOW MANUFACTURERS RECOMMENDED DETAILS
8. OWNER IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF COMMUNICATIONS EQUIPMENT. CONTRACTOR TO COORDINATE WITH IOWA DOT COMMUNICATIONS STAFF
9. PROVIDE GRAVEL PERIMETER 6" DEEP AND 2'-0" WIDE FROM BUILDING WHERE EXISTING PRE-CAST CONCRETE WALL PANELS DO NOT MEET PAVEMENT. SLOPE GRADE AWAY FROM EXTERIOR WALLS A MINIMUM OF 8'-0"
10. MODIFY ROOF, PARAPET CAP, AND SOFFIT AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. PROVIDE SHOP DRAWINGS OF MODIFICATIONS FOR APPROVAL BY IOWA DOT-OFFICE OF SUPPORT SERVICES

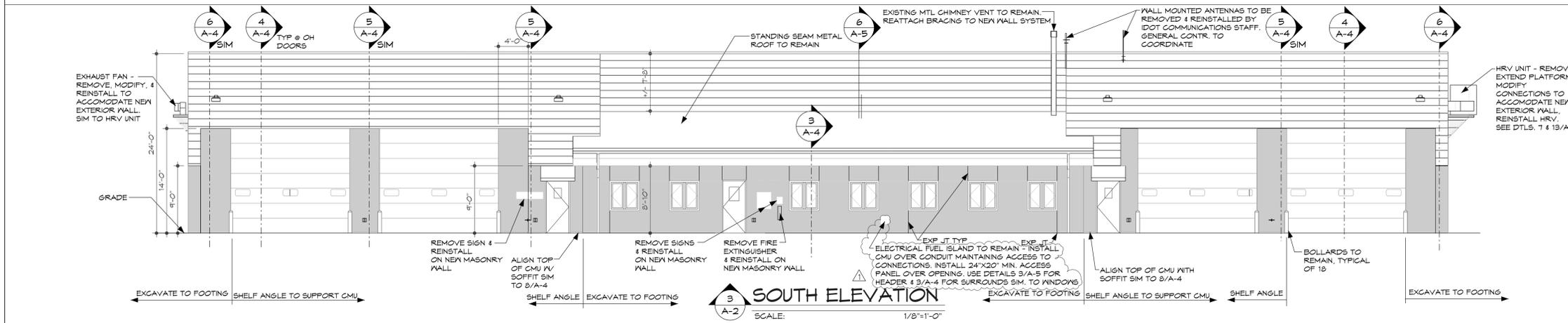


FLOOR PLAN
 SCALE: 1/8"=1'-0"

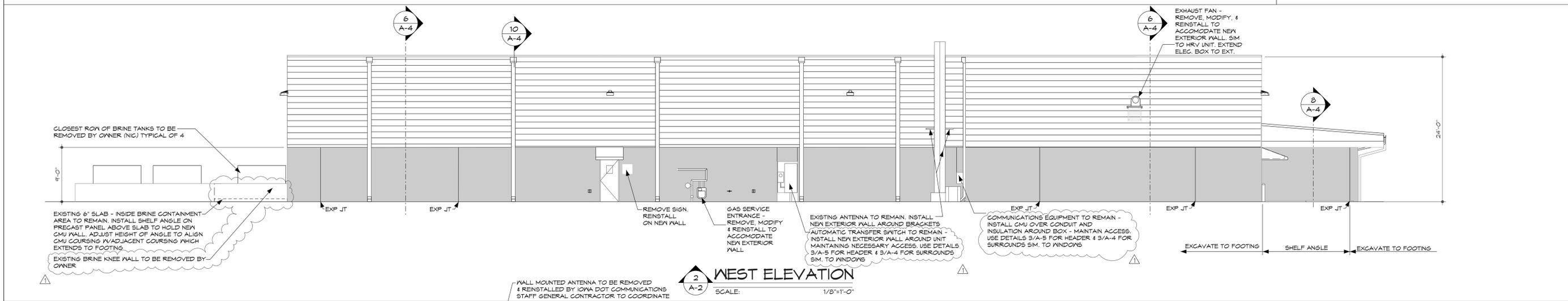
DGN LOC



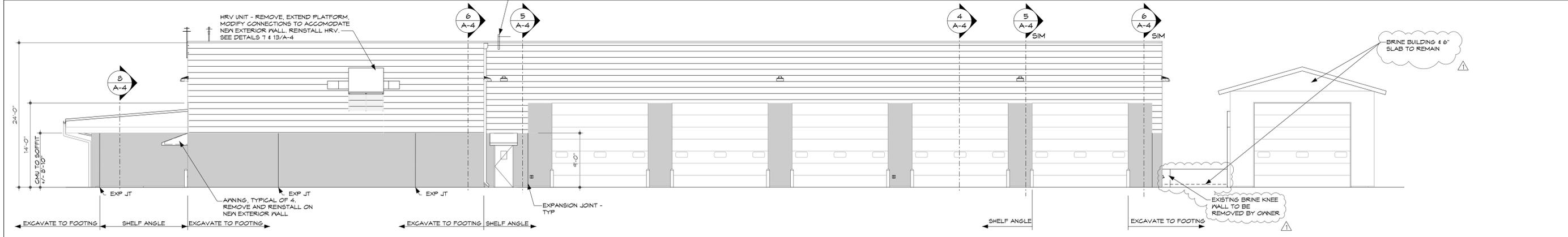
NORTH ELEVATION
SCALE: 1/8"=1'-0"



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



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



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

- NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. IF THERE ARE DISCREPANCIES, CONTACT IOWA DOT PRIOR TO BID.
 - MAINTAIN AND PROTECT BUILDING. REPAIR OR REPLACE DAMAGES AT GENERAL CONTRACTORS COST.
 - CONTRACTOR TO MAINTAIN PASSAGE DOORS AND OVERHEAD DOORS OVERALL OPENING SIZES.
 - EXISTING SUBSTRATE IS RAKED FINISH PRECAST CONCRETE PANELS. TYPICAL PANEL WIDTH IS 8'-0". WELD PLATES ARE LOCATED BETWEEN PANELS ON THE INTERIOR. PANEL THICKNESS IS 11'-0".
 - GAS AND OTHER AFFECTED UTILITIES TO BE MOVED BY GENERAL CONTRACTOR AS REQUIRED. COORDINATE WITH IOWA DOT - OFFICE OF SUPPORT SERVICES AND UTILITY COMPANY.
 - REMOVE AND REPLACE PARAPET CAP COLOR TO MATCH EXISTING. PARAPET CAP ASSEMBLY BY CONTRACTOR. PROVIDE SHOPS TO BE APPROVED BY IOWA DOT - OFFICE OF SUPPORT SERVICES.
 - REMOVE AND REINSTALL BUILDING SIGNAGE.
 - MODIFY AND EXTEND SCUPPERS. REMOVE, STORE AND REINSTALL DOWNSPOUTS ON NEW EXTERIOR WALL.
 - MODIFY AND EXTEND ALL ELECTRICAL FIXTURES AND CONDUITS AS NECESSARY TO ACCOMMODATE NEW EXTERIOR. MATCH ALL EXISTING MATERIALS.
 - MODIFY AND EXTEND ALL SPIGOTS TO ACCOMMODATE NEW EXTERIOR. MATCH ALL EXISTING MATERIALS.
 - REMOVE AND REINSTALL FOUR DOOR AWNING.
 - OWNER IS RESPONSIBLE FOR REMOVAL OF COMMUNICATIONS EQUIPMENT. CONTRACTOR TO COORDINATE WITH IOWA DOT COMMUNICATIONS STAFF.
 - INSTALL NEW EXTERIOR WALL, FLASHING, AND SEALANT AROUND EXISTING ANTENNA SUPPORT. MAINTAIN EXISTING ANTENNA SUPPORT.
 - REMOVE AND REINSTALL EXISTING EXHAUST FAN AND HRV UNIT. MODIFY ELECTRICAL AND DUCT WORK. EXTEND SUPPORT PLATFORM ON EXISTING BRACKETS, TO ACCOMMODATE NEW EXTERIOR. MATCH EXISTING MATERIALS. SEE DTLS. T & 13/A-4.
 - MODIFY, EXTEND AIR CONDITIONING PENETRATIONS FOR NEW EXTERIOR. MATCH EXISTING MATERIALS. REMOVE ELECTRICAL CONNECTION AND REINSTALL ON NEW EXTERIOR WALL.
 - NEW STRUCTURAL INSULATED PANELS (SIPS) TO BE MECHANICALLY ANCHORED WITH CORROSION RESISTANT MECHANICAL FASTENERS TO 2 X 4 FURRING STRIPS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE A STRAIGHT AND TRUE WALL, COMPENSATING FOR THE UNEVEN DEPTH OF THE EXISTING WALL DUE TO CHARACTERISTICS OF THE MATERIALS AND FINISH TECHNIQUES. THIS SHALL PROVIDE A BASE TO FASTEN CEMENT BOARD SIDING. FOLLOW SIPS MANUFACTURER'S RECOMMENDATION FOR COMPATIBLE AIR MOISTURE BARRIER WITH CORROSION RESISTANT MECHANICAL FASTENERS.
 - SECURE CMU WALL AND INSULATION TO THE EXISTING PRECAST WALL PANELS WITH CORROSION RESISTANT MECHANICAL FASTENERS.
 - AT LOCATIONS OF STEEL ANGLE SUPPORTED CMU WALL-GROUT CONCRETE PANEL RIBS SOLID FROM GROUND LEVEL TO 1'-6" HIGH TO PROVIDE SOLID BASE TO ATTACH STRUCTURAL STEEL ANGLE AND FLASHING TO HOLD NEW CMU WALL. ANCHOR STEEL ANGLE TO BUILDING PERIMETER ABOVE GRADE PER WALL SECTIONS ON SHEETS A-4 AND A-5.
 - AT NORTH SIDE OF BUILDING IN CONTAINMENT AREA WHERE 6" CONCRETE SLAB EXISTS ABOVE GRADE. LOCATE STRUCTURAL STEEL SUPPORT ANGLE ABOVE SLAB TO MATCH CMU COURSING OF ADJACENT COURSING.
 - AT ALL HATCHED AREAS SHOWN ON PLAN, EXCAVATE A TRENCH TO RECONSTRUCT NEW CMU WALL WITH INSULATION TO EXISTING FOOTINGS. SEE 6/A-4. RELOCATE EXISTING STORM SEWER AS NECESSARY TO ACCOMMODATE NEW EXTERIOR WALL. LOCATIONS OF STORM SEWER ARE NOTED ON PLAN. ADJUST HEIGHT OF BELOW GRADE CMU WALL TO MATCH ADJACENT COURSING OF ANGLE SUPPORTED CMU.
 - DRAWINGS PROVIDED SHOW EXISTING CONDITIONS BASED ON CASUAL FIELD OBSERVATION ONLY. PLEASE SEE SPECIFICATIONS FOR PRODUCT REQUIREMENTS.
 - PROVIDE NEW WEATHER-STRIPPING AT ALL OVERHEAD DOORS.
 - STRUCTURAL INFORMATION ON SHEET A-5.

DGN_LOC

SECTION 07 4214
INSULATED METAL WALL PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Factory-assembled metal panels for walls, metal furring, related flashings, accessories, fasteners, insulation, and air barrier.

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.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- D. ASTM B117 - Salt Spray: When tested in accordance with ASTM B117, there shall be no corrosion, blistering, or other film defects when exposed for 100 continuous hours in the salt fog chamber.
- E. ASTM G7 - Weathering: When tested in accordance with ASTM G7, with 12-month exposure, the panels shall exhibit not less than the following:
 - 1. Color Change (Fading): 9F.
 - 2. Chalking: 10.
 - 3. Dirt Pickup: 9.
 - 4. Mildew: 10.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on assembled panel structural capabilities.
- C. Shop Drawings: Indicate dimensions, panel profile and layout, joints, construction details, methods of anchorage, and indicate installation procedures and accessories required for a complete installation, panel repair or replacement instructions.
- D. Samples:
 - 1. Submit two samples of panel finish, [3 x 3] inch in size illustrating finish color, sheen, and texture.
 - 2. Submit one 16 inch square piece of rigid foam insulation of the type and thickness specified or shown.
 - 3. Submit one full size sample of panel, 12 inches long in each color and finish specified.
- E. Design and Performance Data: Indicate panel profile and dimensions.
- F. Manufacturer's Installation Instructions: Indicate special handling criteria, installation sequence, and cleaning procedures.

1.04 QUALITY ASSURANCE

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

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- B. Store pre-finished material off ground with weather protection to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- C. Prevent contact with materials that could cause discoloration or staining.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a 20 year period after Date of Substantial Completion, including:

1. Degradation of panel finish including color fading caused by exposure to weather.
2. Failure of water tightness, loss of integrity of seals .

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. TransAmerican Strukturoc, Inc. Stucco Wall Systems; Product Weatherwall: www.strukturoc.com.
- B. Metal Design Systems; Product Series 70: www.metaldesignsystems.com.
- C. Substitutions: See Section 01 6000 - Product Requirements.

2.02 REPAIR SYSTEM

- A. Provide proof of suitable repair procedure and instructions for repairing damaged panels without requiring extensive removal of non-affected panels.
- B. Provide three full length replacement panels and all necessary accessories for future repairs.

2.03 PANEL SYSTEM

- A. Metal Panel System: Factory-assembled metal panel system, with trim, related flashings and accessory components.
 1. Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
 2. Accommodate variation in existing building precast concrete panels.
 3. Provide continuity of thermal barrier at building enclosure elements recommended by panel manufacturer.
- B. Performance Requirements:
 1. Thermal Performance: Provide thermal resistance through entire system (R-value) of R-18 deg F hr sq ft/Btu, minimum.
 2. Structural Performance: Design and size to withstand all dead loads and wind loads caused by positive and negative wind pressure acting normal to plane of panel.
 - a. Verify structural performance in accordance with ASTM E330/E330M, using test pressure 1.5 times design wind pressure, with 10 seconds duration of maximum load.
 - b. Maximum Allowable Deflection of Panel: 1/90 of span.
 3. Movement: Accommodate the movement caused by the following without damage to system, components, or deterioration of seals:
 - a. Normal movement between system components.
 - b. Seasonal temperature cycling.

2.04 SYSTEM DESCRIPTION

- A. A building wall system including metal wall panels, attachment system components, nonstructural metal framing which is a part of the wall panel manufacturer's system, thermal insulation, air barrier, and accessories necessary for a complete weathertight wall system, installed over the existing precast concrete wall panels.

2.05 PANELS AND TRIM

- A. Wall Panels: Exterior and interior metal sheet skin, factory-assembled, with rigid board insulation; exterior and interior sheet interlocking at edges, _____.
 1. Panel Width: 16 inch.
 2. Exterior Sheet: Pre-finished galvanized steel, 20 gage, 0.0359 inch minimum base metal thickness; Textured.
 3. Fabricate panels in longest practicable lengths.
 4. Exterior Finish: Polyvinylidene fluoride (PVDF) coating; color as selected from manufacturer's standard range.
- B. Trim, Closure Pieces, Expansion Joints, Caps, Flashings, Fascias, and Infills: Same material, thickness and finish as exterior sheets; factory-fabricated to required profiles; fabricated in longest practicable lengths.
 1. Exposed Fasteners: Not permitted.

2. Profiles: To suit system.

2.06 PANEL MATERIALS

- A. Precoated Galvanized Steel Sheet: ASTM A653/A653M, Commercial Steel (CS) or Forming Steel (FS), with G90/Z275 coating; continuous-coil-coated with epoxy, acrylic, or polyurethane primer coat, silicone polyester, polyvinyl fluoride (PVF), acrylic, polyester, plastisol, or polyurethane top coat, and polyester washcoat for panel back.
 1. Color of Exposed Exterior Surfaces: As selected by Architect from manufacturer's standard range.
- B. Rigid Board Insulation: Extruded Polystyrene or Foil-Faced, Polyisocyanurate; flame spread/smoke developed index of 75/450, respectively, when tested in accordance with ASTM E84. Thickness to provide R-18 minimum, with trim and anchors to accommodate transition to CMU wall thickness, if different.
- C. Gaskets: Manufacturer's standard type suitable for use with panel system, permanently resilient; .
- D. Panel Sealants: Manufacturer's standard type suitable for use with installation of panel system; non-staining, skinning, non-shrinking, non-sagging; ultra-violet and ozone resistant; color as selected.
- E. Air Barrier: Manufacturer's standard type suitable for use with installation of panel system; Fluid-Applied, spray-on. Installed per manufacturer's recommendation.

2.07 ACCESSORIES

- A. Anchors: Galvanized steel.
- B. Fasteners: Manufacturer's standard type to suit application; of hot-dip galvanized steel; fastener cap same color as exterior panel.
- C. Field Touch-up Paint: As recommended by panel manufacturer.
- D.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that structural substrate is ready to receive panel system.

3.02 INSTALLATION

- A. Install panel system on walls in accordance with manufacturer's instructions.
- B. Permanently fasten panel system to structural supports; aligned, level, and plumb, within specified tolerances.
- C. Use concealed fasteners unless otherwise approved by Architect.
- D. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.
- E. Air Barrier: Apply Fluid-Applied Membrane Air Barriers as recommended by panel manufacturer.
- F. Flash metal wall panels at perimeter of all openings. Fasten with self-tapping screws.
- G. Install flashing and trim as metal wall panel work proceeds, and fasten with self-tapping screws.
- H. Align bottom of metal wall panels and fasten with blind rivets, bolts, or self-tapping screws.
- I. Provide weathertight escutcheons for pipe and conduit penetrating exterior walls.
- J. Metal Protection:
 1. Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by metal wall panel manufacturer.
 2. Prevent rust staining by immediately removing filings caused by drilling or cutting from finished surfaces.
- K. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual". Provide concealed fasteners

where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

3.03 ADJUSTING AND CLEANING

- A. Field touch-up marred and abraded surfaces with paint provided.
 - 1. Repair panels and trim which exhibit minor damage, limited to surface abrasions that do not expose steel substrate.
 - 2. Replace sections of wall panels and associated work, which exhibit abrasions on the face of surfaces exposed to view from finished grade, which cannot be satisfactorily repaired, with new materials to match adjacent undamaged components.
- B. Remove site cuttings, metal filings, dirt and other foreign substances from finish surfaces.
- C. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

END OF SECTION