UPGRADE NUTRITION AND FOOD SERVICE DESIGN

VA #568A4-22-205



U.S. DEPARTMENT OF VETERANS AFFAIRS

500 N 5TH ST, HOT SPRINGS, SD 57747

6-13-2023 PERMIT / BID SET



ABBREVIATIONS

POUND OR NUMBER

ROUND OR DIAMETER

ARCHITECT/ENGINEER

ACM ALUMINUM COMPOSITE MATERIAL

ASPHALTIC CONCRETE/AIR CONDITIONER

AMERICANS WITH DISABILITIES ACT

ADJUSTABLE, ADJACENT, ADJOINING

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS

ANCHOR BOLT

ACT ACOUSTICAL CEILING TILE

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

APC ACOUSTICAL PANEL CEILING

AHJ AUTHORITY HAVING JURISDICTION

AREA DRAIN

ADDENDUM

ADHESIVE

ALT ALTERNATIVE

APPROX APPROXIMATE

ARCH ARCHITECT (URAL)

BFF BELOW FINISH FLOOR

ALUM ALUMINUM

BEV BEVELED

BL BRICK LEDGE

BLKG BLOCK (ING)

BEAM

BOTTOM OF

BOC BOTTOM OF CONCRETE

BOF BOTTOM OF FOOTING

BLDG BUILDING

BOT BOTTOM

BRG BEARING

BRKT BRACKET

BSMT BASEMENT

BTWN BETWEEN

VA FORM 08 - 6231

one eighth inch = one foot 0.04 8 16

BUR BUILT UP ROOFING

CABINET

CHANNEL/CELSIUS

CERAMIC BASE

CD CONSTRUCTION DOCUMENTS

CCW COUNTER CLOCKWISE

BRK BRICK

BD

ABOVE

ACC ACCESSIBLE

ACOUS ACOUSTICAL

ABV

DOUBLE ANGLE

AND

PENNEY

ABBREVIATIONS

EQ

EXIST

FDTN

FTG

FUT

GALV

FURN

CUBIC FEET OR FOOT

CAST-IN-PLACE CONCRETE

CONCRETE MASONRY UNIT

CHANGE ORDER/CLEANOUT

CONTROL/CONSTRUCTION JOINT

CORNER GUARD

CHANNEL

CENTER LINE

CLEAR, CLEARANCE

COMP COMPOSITE/COMPOSITION

CONT CONTINUOUS, CONTINUE

CORR CORRUGATED/CORRIDOR

CASEMENT

CTB CARPET TILE BASE

DOUBLE

DEMO DEMOLITION, DEMOLISH

DRINKING FOUNTAIN

DEPARTMENT

DIAMETER

DIMENSION

DOWNSPOUT

DRAWING (S)

DRAWER

EXISTING

EAST

EACH

EACH FACE

ELEVATION

ELECTRICAL

ELVE ELEVATOR

ENGR ENGINEER

ENL ENLARGED

EMER EMERGENCY

EXPANSION JOIN

DWTR DUMBWAITER

DISHWASHER

DIAGONAL

DOWN

DOOR

CTR CENTER

DEPT

DISP

CERAMIC TILE

CAULKING

COMB COMBINATION

CONN CONNECT (ION)

CONST CONSTRUCTION

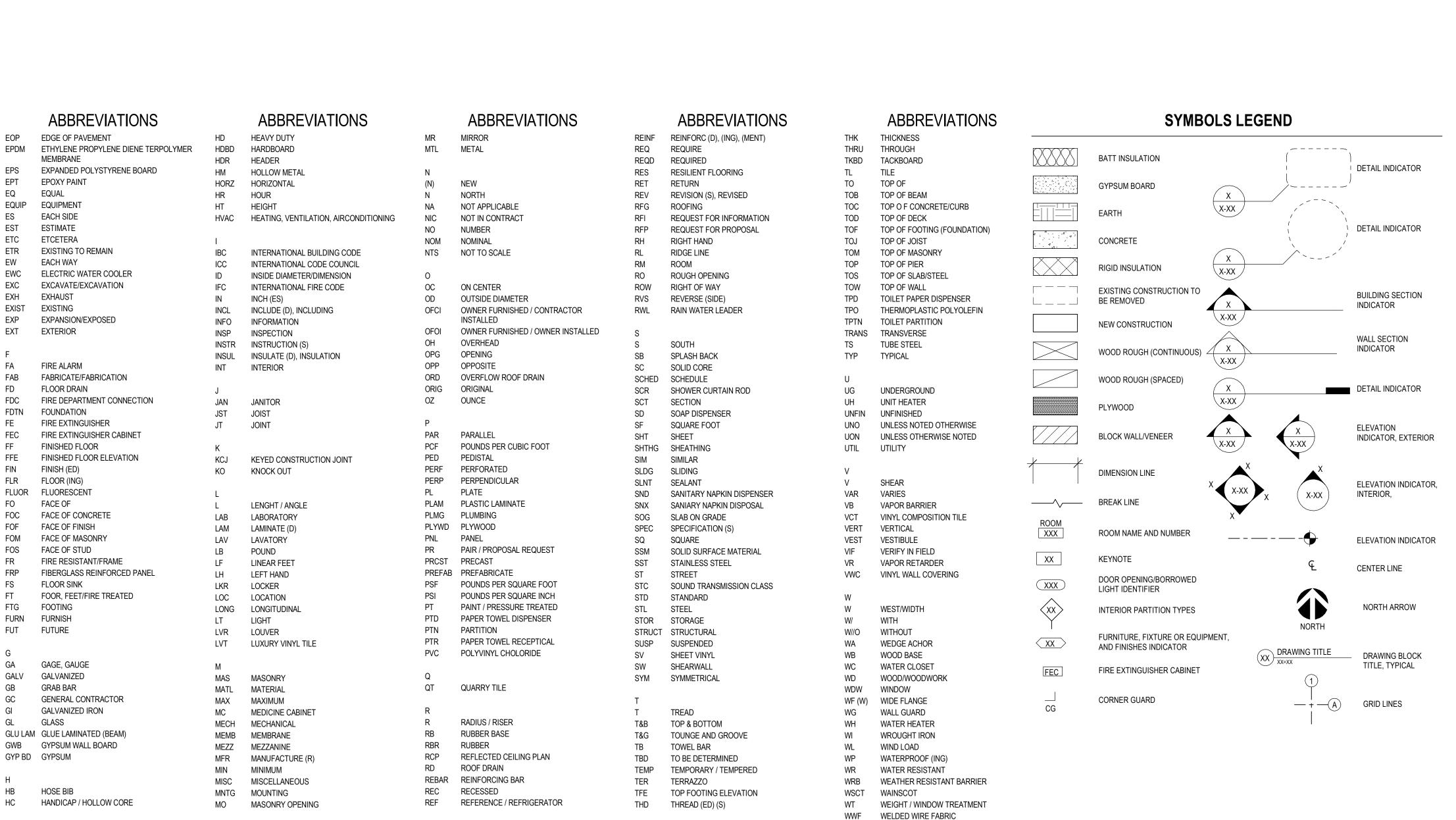
CONTR CONTRACT (OR)

COORD COORDINATE

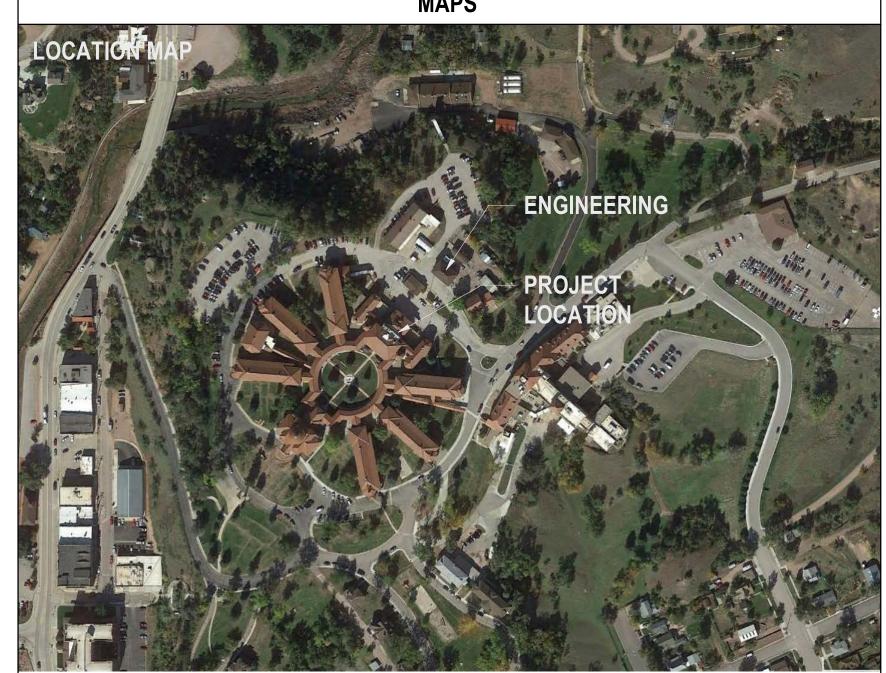
CPPT CARPET TILE

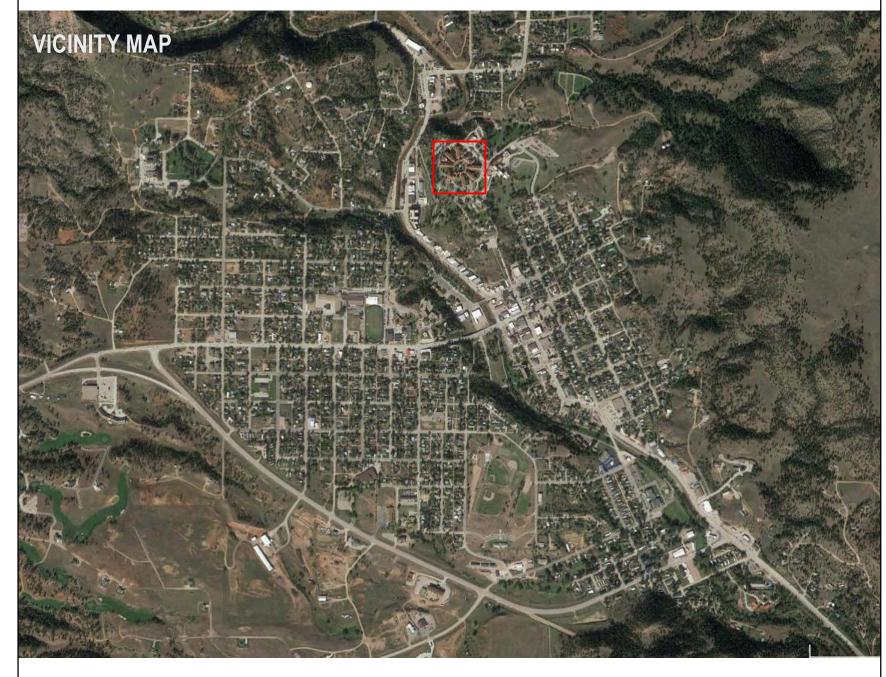
CONC CONCRETE

CLKG









VA BLACK HILLS HEALTH CARE SYSTEM OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT 500 N 5TH ST NORTH HOT SPRINGS, SD 57747

| Revision# | Description

CONSULTANTS **MECHANICAL / ELECTRICAL:** RAPID CITY, SD 57702 Phone: 605-348-7455

STUCTURAL: Albertson Engineering Inc. **ALBERTSON ENGINEERING IN** 3202 W MAIN ST SUITE C RAPID CITY, SD 57702 Phone: 605-343-9606

FOOD SERVICE: hc.design 614 FERGUSON AVE STE 11 BOZEMAN, MT 59718 Phone: 406-522-59719

STONE GROUP ARCHITECTS

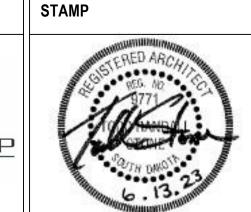
ARCHITECT OF RECORD

Stone Group Architects

Sioux Falls, SD 57103

600 E 7th Street

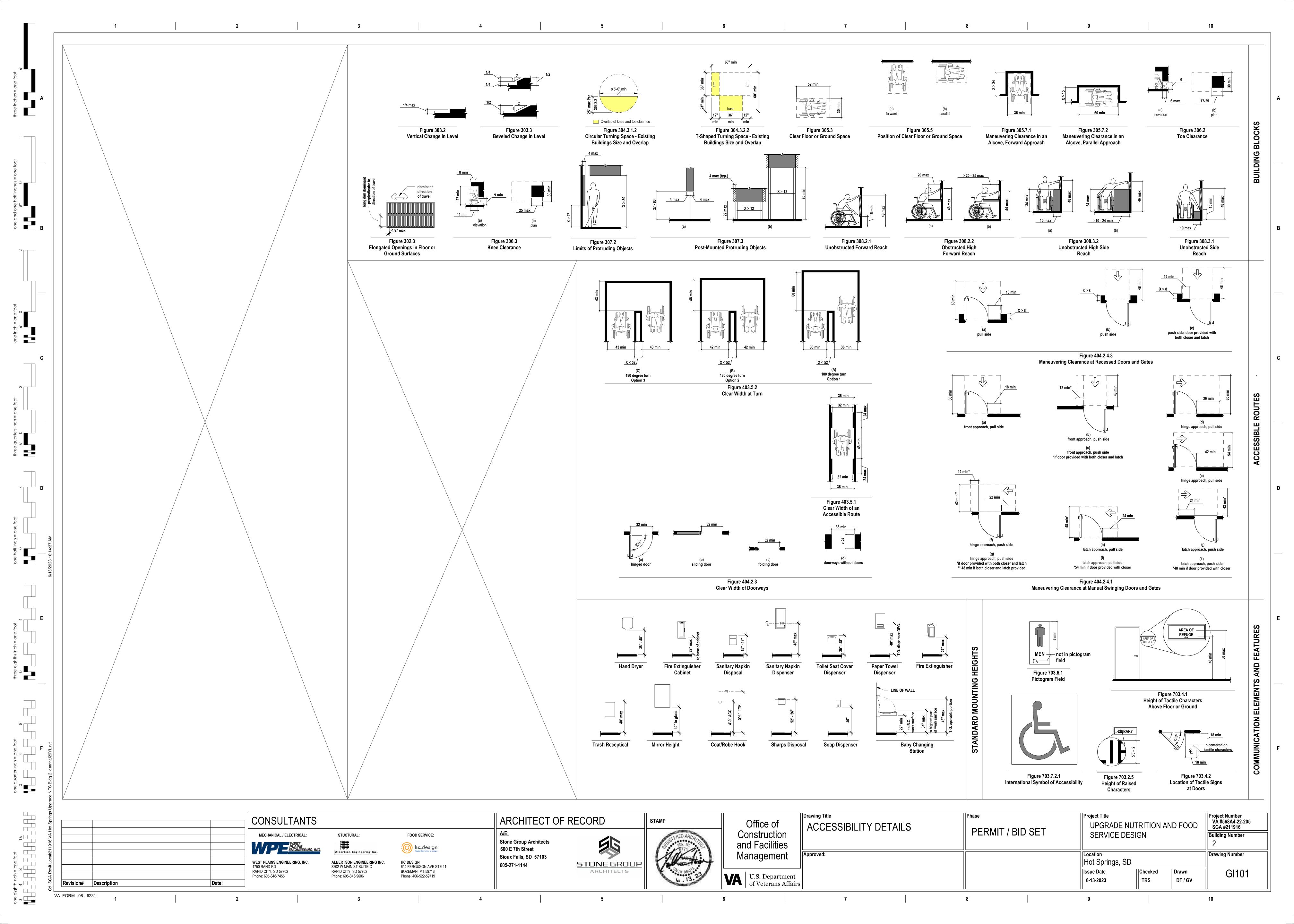
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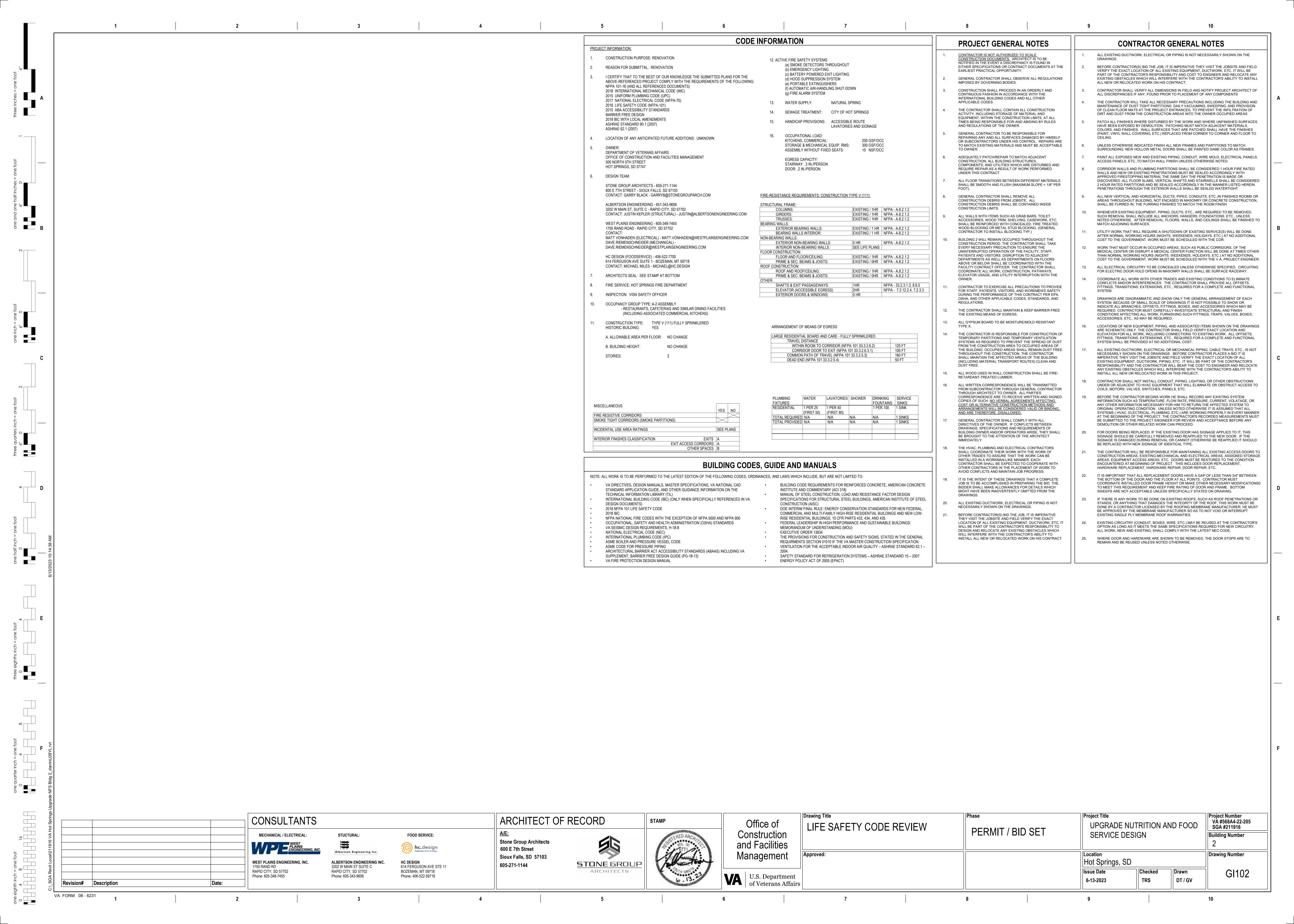


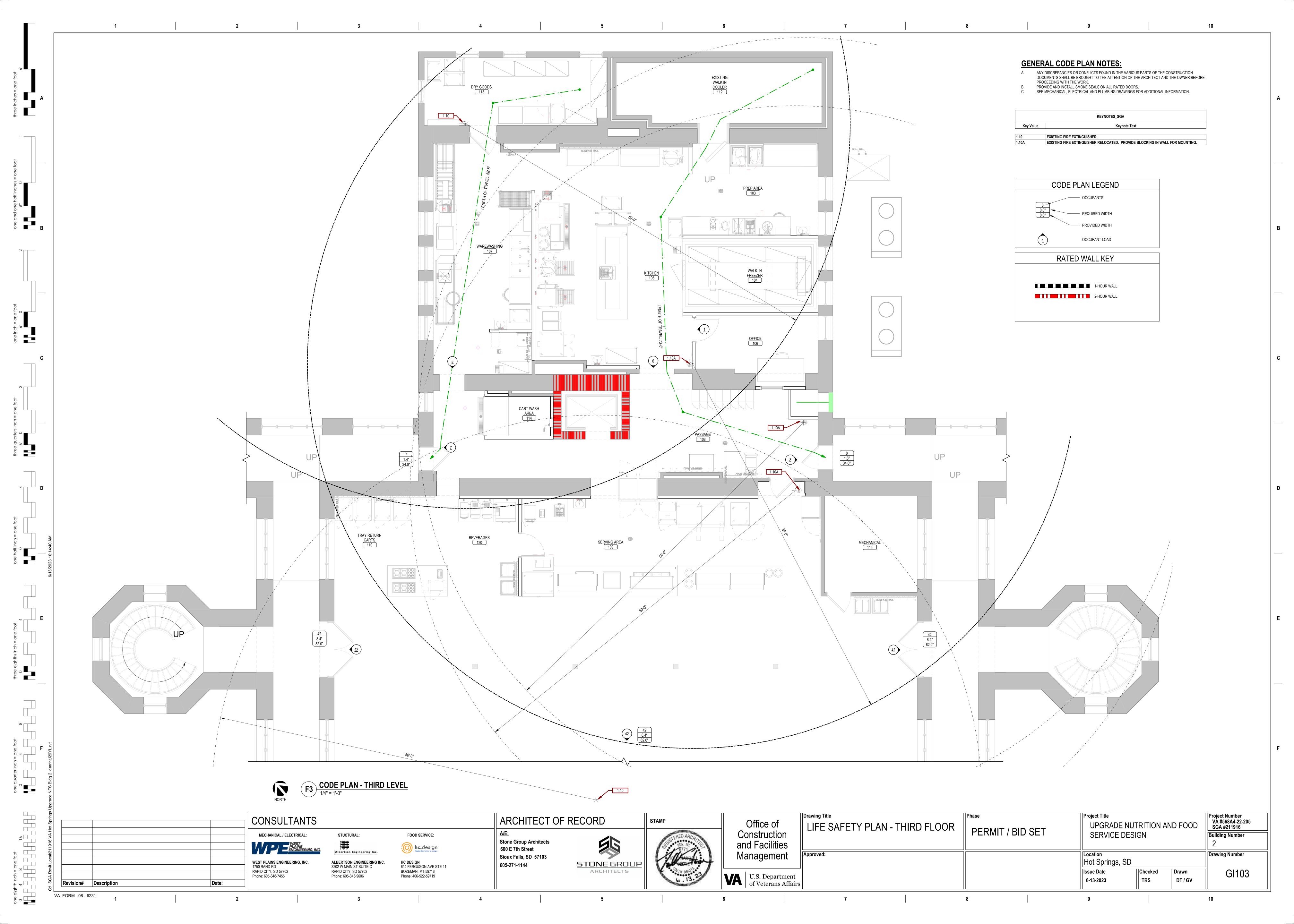
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title **Project Title Project Number** VA #568A4-22-205 **UPGRADE NUTRITION AND FOOD COVER SHEET** SGA #211916 PERMIT / BID SET SERVICE DESIGN **Building Number Drawing Number** Hot Springs, SD Checked Drawn GI000 6-13-2023 TRS DT / GV







GENERAL STRUCTURAL NOTES IBC 2021 TABLE 1705.3 REQUIRED SPECIAL INSPECTION AND TECTO OF CONODETE CONOTDUCTION GENERAL NOTES: **PENETRATIONS: CONCRETE AND REINFORCING PLACEMENT:** 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE 1. STRUCTURAL 2x WOOD COMPONENTS HAVE BEEN DESIGNED AS SPRUCE-PINE-FIR 1. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 301 AND ACI 117 SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER. (SPF) OR HEM-FIR (HF) NO. 2 OR BETTER AND SHALL HAVE THE FOLLOWING MINIMUM EXCEPT AS MODIFIED BELOW: SITE DRAWINGS, CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND ALLOWABLE FIBER STRESSES AND PROPERTIES: OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. A. ACI 117 ITEM 4.3.1.1 ELEVATIONS OF SLABS-ON-GRADE TOP OF SLAB ELEVATION **CONCRETE MIX DESIGN:** MODULUS OF ELASTICITY (E) 1,300,000 PSI SHALL BE WITHIN A 3/8" ENVELOPE EITHER SIDE OF THE THEORETICAL DESIGN 2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY BENDING (Fb) 850 PSI 1. CONCRETE MIX SHALL BE DESIGNED BY RECOGNIZE TESTING LABORATORY TO DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE SHEAR (Fv) 135 PSI ACHIEVE A STRENGTH AT 28 DAYS AS SHOWN IN THE BELOW CONCRETE CURING PROCEEDING WITH THE AFFECTED PART OF THE WORK.

FIBER STRESSES AND PROPERTIES:

WOOD FRAMING CONNECTORS:

STANDARD G-60 COATING.

ENGINEER.

APPROVAL OF THE STRUCTURAL ENGINEER.

SPECIAL INSPECTION AND TESTING:

2. STRUCTURAL WOOD COMPONENTS WHERE INDICATED AS (DF) HAVE BEEN DESIGNED

DOUGLAS FIR LARCH (DF) AND SHAL HAVE THE FOLLOWING MINIMUM ALLOWABLE

3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR

5. BOLTS IN WOOD ARE MACHINE BOLTS. UNLESS OTHERWISE NOTED. MACHINE BOLTS

307 STEEL. BOLT HOLES IN WOOD SHALL BE 1/32" OVERSIZE. WHERE STEEL IS

1. CONNECTOR MODEL NUMBERS SHOWN ARE "STRONG-TIE" CONNECTORS AS

2. ALL CONNECTORS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A653.

SAN LEANDRO, CA 94577. SUBSTITUTIONS ARE ACCEPTABLE ONLY WITH THE

MANUFACTURED BY "SIMPSON STRONG-TIE CO.", 1450 DOOLITTLE DR., PO BOX 1568,

CONNECTORS IN CONTACT WITH PRESSURE TREATED MATERIALS SHALL HAVE G-185

COATING. CONNECTORS NOT IN CONTACT WITH TREATED MATERIALS SHALL HAVE

1. SPECIAL INSPECTION AND MINIMUM TESTING SHALL BE PERFORMED IN ACCORDANCE

2. INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING AGENCY HIRED AT

THE OWNER'S EXPENSE. AGENCY INSPECTION PERSONNEL SHALL MEET THE

INSPECTOR QUALIFICATIONS FOR EACH MATERIAL ITEM AS INDICATED IN THE

DRAWINGS OR IN SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE

4. IN ADDITION TO THE IBC INSPECTION TABLES, THE INSPECTOR SHALL VERIFY THAT

ALL STEEL MAINTAIN ERECTION TOLERANCES OF STRUCTURAL STEEL AND

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WITHIN AISC'S CODE OF

5. IN ADDITION TO THE CONCRETE AND MASONRY IBC INSPECTION TABLES, THE

6. TESTING - ANY FAILED FIELD TEST SHALL BE REPORTED TO ALBERTSON

INSPECTOR SHALL VERIFY THAT ALL CONCRETE AND MASONRY MAINTAIN

TOLERANCES SPECIFIED IN ACI 117-90 STANDARD SPECIFICATIONS FOR TOLERANCES

STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

FOR CONCRETE CONSTRUCTION AND MATERIALS.

ENGINEERING INC IMMEDIATELY.

3. ANY MATERIAL OR PLACEMENT DEVIATIONS FROM MINIMUMS SHOWN ON THE

WITH 2021 IBC AND ALL REFERENCED MATERIALS AND TABLES.

SHALL HAVE A SHANK DIAMETER WITHIN 1/16" OF THAT SPECIFIED. BOLTS ARE ASTM

PRESSURE TREATED IN ACCORDANCE WITH AITC-109.

1,900,000 PSI

1,350 PSI

180 PSI

| | BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION | CON | ICRETE I | PROPE | RTIE | S |
|----|--|-------------------------------|-----------------------------------|------------------|------------|------------------|
| 4. | OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIE-DOWNS. | LOCATION | 28 DAY COMPRESSIVE STRENGTH | ENTRAINED AIR | SLUMP | MAX W/C RATIO |
| | AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR. | FOOTINGS | 3,500 PSI | 4.0% - 6.0% | 5" +/- 1" | 0.55 |
| 5. | ALL STRUCTURAL SHOP DRAWINGS TO BE REVIEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO | FND WALLS & ALL OTHER CONC | 4,500 PSI | 5.0% - 7.0% | 4"+/- 1" | 0.45 |
| | SUBMITTAL TO ENGINEER FOR APPROVAL. | INTERIOR SLABS | 4,000 PSI | ≤ 3.0% | 3" +/- 1" | 0.5 |
| 6. | ALL SHOP DRAWINGS TO BE REVIEWED BY ALBERTSON ENGINEERING INC. SHALL | EXTERIOR SLABS | 5,000 PSI | 5.0% - 7.0% | 3" +/ - 1" | 0.40 |

STRENGTH SCHEDULE WITH A PLASTIC AND WORKABLE MIX:

3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE

HAVE ELECTRONIC COPIES PROVIDED TO ALBERTSON ENGINEERING INC. FOR REVIEW. AN ELECTRONIC MARKED SET OF THOSE DRAWINGS WILL BE RETURNED TO

THE CONTRACTOR. NO ADDITIONAL HARD COPIES OF THE SHOP DRAWINGS NEED TO

REQUIRE HARD COPIES OF THE MARKED UP DRAWINGS. THESE REQUIREMENTS ARE

BE PROVIDED TO ALBERTSON ENGINEERING INC., ALTHOUGH OTHER PARTIES MAY

IN ADDITION TO THE TYPICAL PROJECT SHOP DRAWING SUBMITTAL REQUIREMENTS

7. THE DESIGN OF THE STRUCTURE SHOWN IN THESE CONSTRUCTION DOCUMENTS IS

FOR THE ONE-TIME USE AT THE SPECIFIC SITE REFERENCED IN THE TITLEBLOCK.

ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND

NDS 2018 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE

FOLLOWING SUPERIMPOSED LOADINGS BASED ON A RISK CATEGORY III:

ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND

30 PSF + DRIFT

20 PSF (REDUCIBLE)

40 PSF

120 MPH

STATED IN THE PROJECT SPECIFICATIONS.

2021 INTERNATIONAL BUILDING CODE.

VA PG 18-10 STRUCTURAL DESING MANUAL - OCTOBER 1, 2022

AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.

DESIGN CODES:

COMMENTARY.

<u>DESIGN LOADS:</u>

SNOW LOAD

DEAD LOAD

LIVE LOAD

GROUND SNOW LOAD

ULTIMATE WIND SPEED

EXPOSURE CATEGORY

SITE CLASSIFICATION

 $S_S = 0.076$

 $S_1 = 0.035$ ANALYSIS PROCEDURE

FOUNDATIONS:

SEISMIC DESIGN CATEGORY

SEISMIC IMPORTANCE FACTOR

FOUNDATION CONSTRUCTION BEGINS.

STRUCTURAL ENGINEER OF RECORD.

PLUMBING SLEEVES:

one eighth inch = one foot 0 4 8 16

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MAPPED SPECTRAL RESPONSE COEFFICIENTS

EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500

CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, A CERTIFIED TESTING

FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT

LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS

MINIMUM SLEEVE SPACING SHALL BE TWO DIAMETERS CENTER TO CENTER TO THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. PRIOR TO

CONSTRUCTION SLEEVE LOCATIONS AND SIZES SHALL BE APPROVED BY THE

PSF ON EXISTING SOILS. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING

SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE

SNOW EXPOSURE FACTOR

SNOW IMPORTANCE FACTOR

INTERNAL PRESSURE COEFFICIENT

SNOW THERMAL FACTOR

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. ALL SLABS SHALL BE CURED USING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1 AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. ALL SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE

3. CONCRETE SHALL UTILIZE TYPE I/II CEMENT AND SHALL HAVE A 20% MINIMUM CLASS F FLY-ASH CONTENT BY WEIGHT.

CURRENT VERSIONS. 5. THE CONCRETE STRENGTHS SHOWN IN THE SECTION ABOVE AND IN THE SPECIFICATIONS ARE MINIMUM COMPRESSIVE STRENGTHS. THE ENGINEER SHALL DETERMINE IF THE CONCRETE IS ACCEPTABLE, OR TO BE REMOVED, OR TO RECEIVE SPECIAL CURING IF THE COMPRESSIVE STRENGTHS ARE LESS THAN SPECIFIED.

4. COARSE AND FINE AGGREGATES SHALL COMPLY WITH ASTM C33 AND ACI 302.1,

6. WATER REDUCING AGENTS MAY BE USED IN THE CONCRETE MIX. PLASTICIZERS AND SUPER-PLASTICIZERS MAY BE USED ONLY WHEN WRITTEN PERMISSION OF THE ENGINEER IS GIVEN.

7. NO SALTS OF ANY KIND MAY BE USED IN CONCRETE BEFORE OBTAINING THE ENGINEER'S WRITTEN PERMISSION FOR THEIR USE.

<u>CONCRETE TESTING:</u>

1. CONCRETE TESTING SHALL BE PAID FOR BY THE OWNER. TESTING LABORATORY SHALL PERFORM THE FOLLOWING TEST ON CAST-IN-PLACE CONCRETE:

A. ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT

B. ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS. A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS: a. AT 7 DAYS b. AT 28 DAYS

C. PROVIDE ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED. THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

D. TESTING SHALL BE BASED UPON CONCRETE TAKEN AT POINT OF PLACEMENT.

E. IN ADDITION TO TYPICAL TESTING REQUIREMENTS, SLUMP AND AIR CONTENT SAMPLES SHALL BE TAKEN AT BEGINNING OF FIRST TRUCK PRIOR TO ANY PLACEMENT AND REPEATED AT THE MIDDLE OF FIRST TRUCK. CONCRETE PLACEMENT SHALL NOT START IF INITIAL TEST(S) FAIL AND SHALL NOT CONTINUE OF TEST TAKEN AT MIDDLE OF FIRST LOAD FAILS.

F. IF ANY SLUMP OR AIR CONTENT FAILS DURING PLACEMENT, TESTS SHALL BE IMMEDIATELY REPORTED AND RETAKEN. IF RETAKEN TESTS FAIL THEN ALL SUBSEQUENT LOADS MUST BE TESTED AT ARRIVAL AND TEST MUST SHOW COMPLIANCE PRIOR TO THE CONCRETE IN THAT TRUCK BEING ALLOWED FOR USE ON PROJECT. ALL COSTS FOR ADDITIONAL TESTING SHALL BE CREDITED TO THE

B. <u>ACI 117 ITEM 4.5.7</u> FLOOR FINISH TOLERANCES AS MEASURED BY PLACING A REESTANDING (UNLEVELED) 10 FT. STRAIGHTEDGE ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON TWO HIGH SPOTS WITHIN 28 DAYS AFTER

SLAB CONCRETE PLACEMENT. THE GAP AT ANY POINT BETWEEN THE

SCALE. AND RUST. PLACE WWF IN ACCORDANCE WITH THE TYPICAL PLACING

DETAILS OF ACI STANDARDS AND THE SPECIFICATIONS. MINIMUM LAPS SHALL BE

2. ALL REINFORCING STEEL TO BE ASTM A615, GRADE 60 (#4 AND LARGER), EXCEPT

ONE SPACE PLUS 2"

WITH THE LATEST ACI MANUALS.

STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCEED 1/4". MODULUS OF ELASTICITY (E) BENDING (Fb) SHEAR (Fv) WHERE NOTED OTHERWISE. REINFORCING SHALL NOT BE WELDED 3. WELDED WIRE FABRIC TO CONFORM TO ASTM A185 AND SHALL BE FREE FROM OIL

4. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE. 4. ALL REINFORCING STEEL BARS TO BE DETAILED AND PLACED IN ACCORDANCE

5. LAP ALL REINFORCING SPLICES IN CONCRETE A MINIMUM OF 48 BAR DIAMETERS OR 24 INCHES. WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE ON CONNECTED TO WOOD, HOLES IN STEEL SHALL BE 1/16" OVERSIZE. PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BEARING IS AGAINST WOOD. DRAWINGS (CLASS B SPLICE). WHERE STEEL SIDE PLATES ARE USED FOR CONNECTION, THE PLATE SHALL BE USED AS A TEMPLATE. 6. PROVIDE CORNER BARS OF SAME BAR DIAMETER AS SPECIFIED FOR THE WALL.

MINIMUM COVER

BARS, UNLESS NOTE OTHERWISE. 7. PROVIDE FOUNDATION DOWELS AS SHOWN. MINIMUM SIZE DOWELS TO BE #4, UNLESS OTHERWISE NOTED. ALL VERTICAL REINFORCING STEEL IN COLUMNS AND PIERS, OR VERTICAL REINFORCING IN WALLS, SHALL BE DOWELED INTO THE FOOTINGS WITH SAME SIZE AND QUANTITY DOWEL AS THE VERTICAL

BEAM OR FOOTING. PROVIDE MINIMUM OF 40 BAR DIAMETER LAP FOR ALL CORNER

8. WHERE SHOWN ON THE DRAWINGS, PROVIDE WELD PLATES, WELDMENTS, OR CONCRETE INSERTS FOR FASTENING AND SECURING OTHER COMPONENTS. CONCRETE INSERTS SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING THEM AND INSTALLED BY THE CONTRACTOR CASTING THE CONCRETE AROUND THEM. CLIP ANGLES SHALL BE FURNISHED BY THE CONTRACTOR REQUIRING

9. REINFORCING STEEL SHALL RECEIVE CONCRETE COVER AS FOLLOWS:

CAST AGAINST & PERMANENTLY EXPOSED TO EARTH EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS #5 BARS OR SMALLER 1 1/2" NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND, SLABS AND WALLS #11 BARS OR SMALLER #14 AND #18

BEAMS AND COLUMNS SHELLS, FOLDED PLATE MEMBERS: NO. 6 BAR AND LARGER NO. 5 BAR, W31 OR D31 WIRE AND SMALLER

FOR ALL OPENINGS GREATER THAN 12"x12" FOR DESIGN. 11. COLD WEATHER AND HOT WEATHER PROVISIONS OF ACI 306 AND 305 (CURRENT

EDITIONS), RESPECTIVELY, SHALL BE MAINTAINED.

10. PROVIDE TWO (2) #5'S, ONE AT EACH FACE, UNLESS NOTED OTHERWISE, AROUND

ALL OPENINGS GREATER THAN 12"x12" IN CAST-IN-PLACE CONCRETE. EXTEND

REINFORCING 2'-0" BEYOND OPENING IN BOTH DIRECTIONS. CONTACT ENGINEER

12. UNLESS NOTED OTHERWISE ALL UNDER SLAB VAPOR RETARDERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM E1745 CLASS A AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

CHEMICAL ANCHORS:

SHALL BE A POLYMER INJECTION SYSTEM SUCH AS HILTI-HY 200 EPOXY, OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

ANCHOR BOLTS:

1. SHALL BE A36 THREADED ROD. PROVIDE HOT DIP GALVANIZE FINISH ON ALL ANCHOR BOLTS PERMANENTLY EXPOSED TO EXTERIOR OR IN CONTACT WITH PRESSURE TREATED LUMBER.

THREADED ROD EMBEDMENT DEPTH SPECIFIED IN THE DRAWINGS SHALL BE FROM TOP OF CONCRETE TO TOP OF DOUBLE NUT.

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION | REFERENCED STANDARD ^a | IBC REFERENCE | REQUIRED PROJEC |
|--|-------------------------------------|-----------------------------------|--|------------------------|--------------------|
| INSPECTION REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT | - | X | ACI 318 CH 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4 | YES |
| REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. | - | Х | AWS D1.4, | | No |
| B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16". | | Х | ACI 318: 26.6.4 | - | NO |
| C. INSPECT ALL OTHER WELDS | Χ | - | | | |
| 3. INSPECT ANCHORS CAST IN CONCRETE. | - | Х | ACI 318: 17.8.2 | - | YES |
| 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. ^b A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | - | ACI 318: 17.8.2.4, ACI 318: 17.8.2 | - | NO |
| B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A. | - | x | | | YES |
| 5. VERIFY USE OF REQUIRED DESIGN MIX. | - | Х | ACI 318: CH. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2 | YES |
| 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | Х | - | ASTM C172, ASTM C31, ACI 318: 26.5, 26.12 | - | YES |
| 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES | Х | - | ACI 318: 26.5 | 1908.6, 1908.7, 1908.8 | YES |
| VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | - | Х | ACI 318: 26.5.3-26.5.5 | 1908.9 | YES |
| 9. INSPECT OF PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES. | Х | - | ACI 318: 26.10 | - | NO |
| B. GROUTING OF BONDED PRESTRESSING TENDONS. | X | - | | | |
| 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | - | X | ACI 318: CH. 26.9 | - | YES |
| 11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR: | | | ACI 318: 26.13.1.3 | - | NO |
| A. INSTALLATION OF EMBEDDED PARTS. | Χ | - | | - | |
| B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS. | X | - | ACI 550.5 | | |
| C. COMPLETION OF CONNECTIONS IN THE FIELD. | Χ | - | | - | |
| 12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5. | - | Х | ACI 318: 26.13.1.3 | - | NO |
| 13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | - | Х | ACI 318: 26.11.2 | - | NO |
| 14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | • | Х | ACI 318: 26.11.1.2(b) | - | YES |

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTERS 19 AND 20 OF ACI 318.

IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN CHAPTERS 19 AND 20 OF ACI 318. THE

PIER TAG CALLOUT INDICATOR INDICATOR TRUE N NORTH ____ PLAN NORTH ORIENTED 90° TO THE SHEET W/ MAGNETIC NORTH (OPTIONAL) REVISION INDICATOR(S) SYMBOL 20GA TYPE 'W3' MTL DECK **DECK INDICATOR** SLAB JOINT GRID INDICATOR INDICATOR INDICATOR INDICATOR WORK POINT INDICATOR

SCALE: FULL DETAIL/SECTION/PLAN BLOCK TITLE INDICATOR (MC-x)REINFORCING INDICATOR INDICATOR IDENTIFIER INDICATOR ROOF SLOPE INDICATOR INDICATOR INDICATOR INDICATOR CONTINUOUS **ASTERISK** STEP STEP TOP OF BEAM INDICATOR INDICATOR WALL INDICATOR INDICATOR

SYMBOLS LEGEND

CUT SECTION

INDICATOR

ELEVATION

INDICATOR

IDENTIFIER

INDICATOR

\XXNNN

FOOTING

IDENTIFIER

(XXX'-XX")

INDICATOR(S)

√XXNNN/

INDICATOR

EXT ELEVATION DETAIL BUBBLE

XXX' - XX"

ELEVATION INDICATOR

REF - / ---

REF - / ---

MATCH LINE INDICATOR

FOOTING/PIER

IDENTIFIER

\XXNNN,

INDICATOR

XX"Ø X XX'-X" / XX'-X"

STRUCTURAL HATCH PATTERNS

| | NATIVE UNDISTURBED SOIL | CMU |
|---------|--------------------------------|---|
| | BACKFILL/FILL | MORTAR |
| | ENGINEERED FILL | GROUT |
| | DRAINAGE COURSE | RIGID INSUL/ICF/SIP /EIFS SYSTEMS |
| 4 4 4 4 | CONCRETE | METAL FLOOR GRATING |
| | BRICK | METALS |
| | WD- GLUED /LAMINATED | CONC WALL HOLDOWN (BLOCKOUT) |
| | PLYWOOD/OSB /PARTICLE BD | ROUGH LOG WALL |
| | GYPSUM Board | WOOD STUD BRG WALL |
| | WD-BLKG OR SHIM | STONE/ ROCK WALL |
| | WOOD- CONTINUOUS FRAMING | INSULATED PRECAST WALL |
| | INSUL/FIRE SAFING | SOLID PRECAST WALL |
| | | |

INDEX TO STRUCTURAL SHEETS

| | STRUCTURAL SHEET INDEX |
|--------|------------------------------|
| SHT NO | SHEET NAME |
| S001 | STRUCTURAL GENERAL NOTES |
| S101 | FLOOR FRAMING PLAN |
| S102 | ROOF FRAMING PLAN |
| S501 | STANDARD AND TYPICAL DETAILS |

| | | | | | ľ | MO2 I | COMMUNICINLY | U2E | D STRUCTUR | AL A | BREVIATION | 19 | | | | ** NC | OT LISTED IN THE NCS MAN |
|--|--|--|--|--|---|---|--|---|---|---|---|---|--|--|---|----------------------|--------------------------|
| & L LL @ CL € () // d ⊥ PL # Ø ABBRE (A) A/E AB ADDL ADDM ADJ AFF AGGR ALT APPRO***AR ARCH (B) BEV BFF **BL BLDG BLW **BLK | PARALLEL PENNY (NAIL) PERPENDICULAR PLATE POUND OR NUMBER ROUND OR DIAMETER VIATIONS: ARCHITECT/ENGINEER ANCHOR BOLT/ROD ABOVE ADDITIONAL ADDENDUM ADHESIVE ADJUSTABLE, ADJACENT, ADJOINING ABOVE FINISH FLOOR AGGREGATE ANCHOR, ANCHORAGE ALTERNATE X APPROXIMATE ANCHOR ROD ARCHITECT (URAL) BEVELED BELOW FINISH FLOOR BRICK LEDGE BUILDING BELOW BLOCK (ING) | **BOC **BOF BRG **BRK BSMT BTWN BU (C) C CAM*(C=) CB CU FT CHFR CIP **CIPC CJ CLG CLR CMU COL CONC CONN CONSTR CONT CONTR CONT CONTR CONT CONTR CONT CONTR CONT CONT CONTR CONT CONT CONT CONT CONT CONT CONT CONT | CARRIAGE BOLT CUBIC FEET OR FOOT CHAMFER CAST-IN-PLACE CAST-IN-PLACE CONCRETE CONTROL JOINT CENTER LINE CEILING CLEAR, CLEARANCE CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECT (ION) CONSTRUCTION CONTINUOUS, CONTINUE CONTRACT (OR) COORDINATE CENTER CUBIC CUBIC YARD DEEP, DEPTH, PENNY (NAIL) DOUBLE DEMOLITION, DEMOLISH DETAIL DIAMETER | DR DT DWG (E) **(E) EA **EAB EF EJ EL **EMB EPS EQ EQUIP EST EXP | DIMENSION DIRECTION DIVIDE, DIVISION DECKING DEAD LOAD R DOUGLAS FIR DRAIN DRAIN TILE DRAWING (S) EXISTING (SEE EXIST) EACH EPOXY ANCHOR BOLT EACH FACE EXPANSION JOINT ELEVATION EMBED (ED) EXPANDED POLYSTYRENE EQUAL EQUIPMENT ESTIMATE EACH WAY EXISTING EXPANSION, EXPOSED EXPANSION, EXPOSED EXPANSION BOLT EXTERIOR, EXTERNAL FLOOR DRAIN FOUNDATION FINISH FLOOR ELEVATION FINISH (ED) FLANGE FILLER, FLOOR (ING) FACE OF FACE OF CONCRETE FACE OF MASONRY | FT FTG FRMG FUT **FV (G) GA GALV GC **GL GLU LAM GR BM GRTG GYP GYP BD (H) H **HAB **HAS HC HDR HGR HORIZ HS **HSB **HSS HT (I) ID INCL INFO INSUL INT INV EL (J) **JST | FOOT, FEET FOOTING FRAMING FUTURE FIELD VERIFY | **KCJ KIP KLF KSF KSI (L) LAM **LB LF **LGR LL LLH LLV LOC LONG **LSL LT WT **LVL LVR (M) MACH MB MATL MAX E MBR **MC MECH MEZZ MFD MFR | KEYED CONSTRUCTION JOINT THOUSAND POUND KIPS PER LINEAR FOOT KIPS PER SQUARE FOOT KIPS PER SQUARE INCH ANGLE LAMINATE (ED) POUND LINEAR FEET LEDGER LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION LONGITUDINAL LAMINATED STRAND LUMBER LIGHTWEIGHT LAMINATED VENEER LUMBER LOUVER MACHINE MACHINE BOLT MATERIAL MAXIMUM MEMBER MISCELLANEOUS CHANNEL MEZANINE MANUFACTURED MANUFACTURED MANUFACTURER MANUFACTURER RECOMMENDATION MINIMUM MISCELLANEOUS METAL | NA NIC NO NOM NS NTS (O) OC OD OH DR OPPG **OSB **OVS (P) **PAF PAR PCF PED PERF PERP PL PLF PLYWD PNL PR CST PREFAB PSF PSI **PSL PT PVC (R) | NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NEAR SIDE NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHEAD DOOR OPENING OPPOSITE ORIENTED STRAND BOARD OVERSIZED POWDER ACTUATED FASTENER PARALLEL POUNDS PER CUBIC FOOT PEDESTAL PERFORATED PERPENDICULAR PLATE POUNDS PER LINEAR FOOT PLYWOOD PANEL PAIR, PIPE RAIL PRECAST CONCRETE PREFABRICATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER POST TENSION (ED), PRESSURE TREATED POLYVINYL CHLORIDE | REINF REQ REQD REV RO RS RVS (S) SCHED SECT SHT SHTHG SIM ***SL SLNT SLV ***SOG SPEC SQ ***SSL ***SSLT STD STIF STL STRUCT SUSP ***SW SYMM (T) T T&B T&G **TBD | REINFORCE (D), (ING) REQUIRE REQUIRED REVISION (S), REVISED ROUGH OPENING ROUGH SAWN REVERSE (SIDE) SCHEDULE SECTION SHEET SHEATHING SIMILAR SNOW LOAD SEALANT SLEEVE SLAB-ON-GRADE SPECIFICATION (S) SQUARE SHORT SLOTTED (HOLE) TRANSVERSE STAINLESS STEEL STANDARD STIFFENER STEEL STRUCTURAL SUBFLOOR SUSPENDED SHEAR WALL SYMMETRY, SYMMETRICAL TREAD TOP AND BOTTOM TONGUE AND GROOVE TO BE DETERMINED | TOS TO SHTHG TO SUB FL TOW **TRANS TRTD TS TYP (U) UNO (V) VERT VIF VR VRFY (W) W W/ W/O **WA WD WF (W) WL WLD WP **WS | TOTAL LOAD TOP OF TOP OF TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF MASONRY TOP OF PIER TOP OF PARAPET TOP OF STEEL, SLAB TOP OF SHEATHING TOP OF WALL TRANSVERSE TREATED TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE SHEAR VERTICAL VERIFY IN FIELD VAPOR RETARDER VERIFY WIDTH WITH WITHOUT WEDGE ANCHOR WOOD WIDE FLANGE WIND LOAD WELD (ED) WATERPROOFING, WORKING POINT WALL STEP | ** NC (X) XPS (Y) YD | EXTRUDED POLYSTYRE YARD |
| BM BOT **BO | BEAM BOTTOM BOTTOM OF | DIAG | DIAGONAL, DIAGRAM | FOS **FOW FS | FACE OF STUD FACE OF WALL FAR SIDE | **JT (K) K | JOINT THOUSAND (KIP) | (N) **(N) | NEW | R RCP REF | RADIUS/RISE (R) REINFORCED CONCRETE PIPE REFERENCE | THD THK THRU | THREAD (ED) (S) THICKNESS THROUGH | WT WWF | WEIGHT WELDED WIRE FABRIC | , r | |

CONSULTANTS **MECHANICAL / ELECTRICAL:** WEST PLAINS ENGINEERING, INC. 1750 RAND RD RAPID CITY, SD 57702 Phone: 605-348-7455

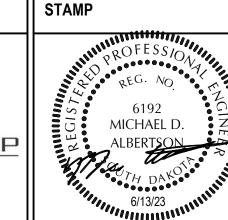
STUCTURAL: Albertson Engineering Inc. **ALBERTSON ENGINEERING IN** 3202 W MAIN ST SUITE C

Phone: 605-343-9606

RAPID CITY, SD 57702

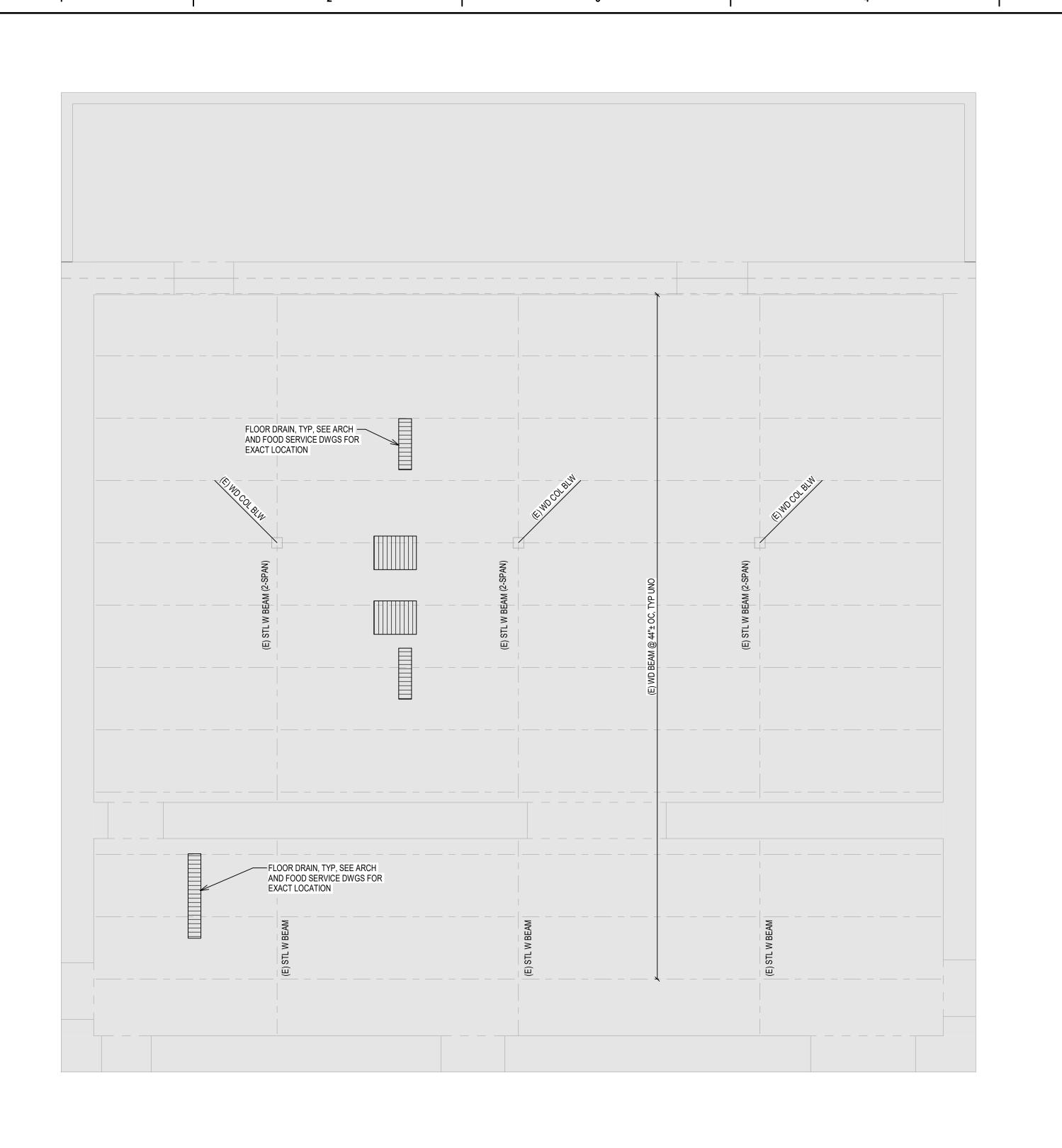
FOOD SERVICE: hc.design 614 FERGUSON AVE STE 11 BOZEMAN, MT 59718 Phone: 406-522-59719

STONE GROUP ARCHITECTS



Office of Construction and Facilities Management U.S. Department of Veterans Affairs

Project Number VA #VA #568A4-22-205 **UPGRADE NUTRITION AND FOOD** STRUCTURAL GENERAL NOTES **AEI #22-276** PERMIT/ BID SET SERVICE DESIGN **Building Number Drawing Number** HOT SPRINGS, SD FOR OFFICIAL USE ONLY Checked S001 06.13.2023 MDA JRK



1" TIMBER DECK, SEE PLAN (4" CONC/ GROUT NOT SHOWN) SIMPSON LU26 — HANGERS, TYP (E) WD BEAM , SEE PLAN

TYP FLOOR OPENING (BTWN 12" & 3' - 6")

SCALE: 3/4" = 1'-0"

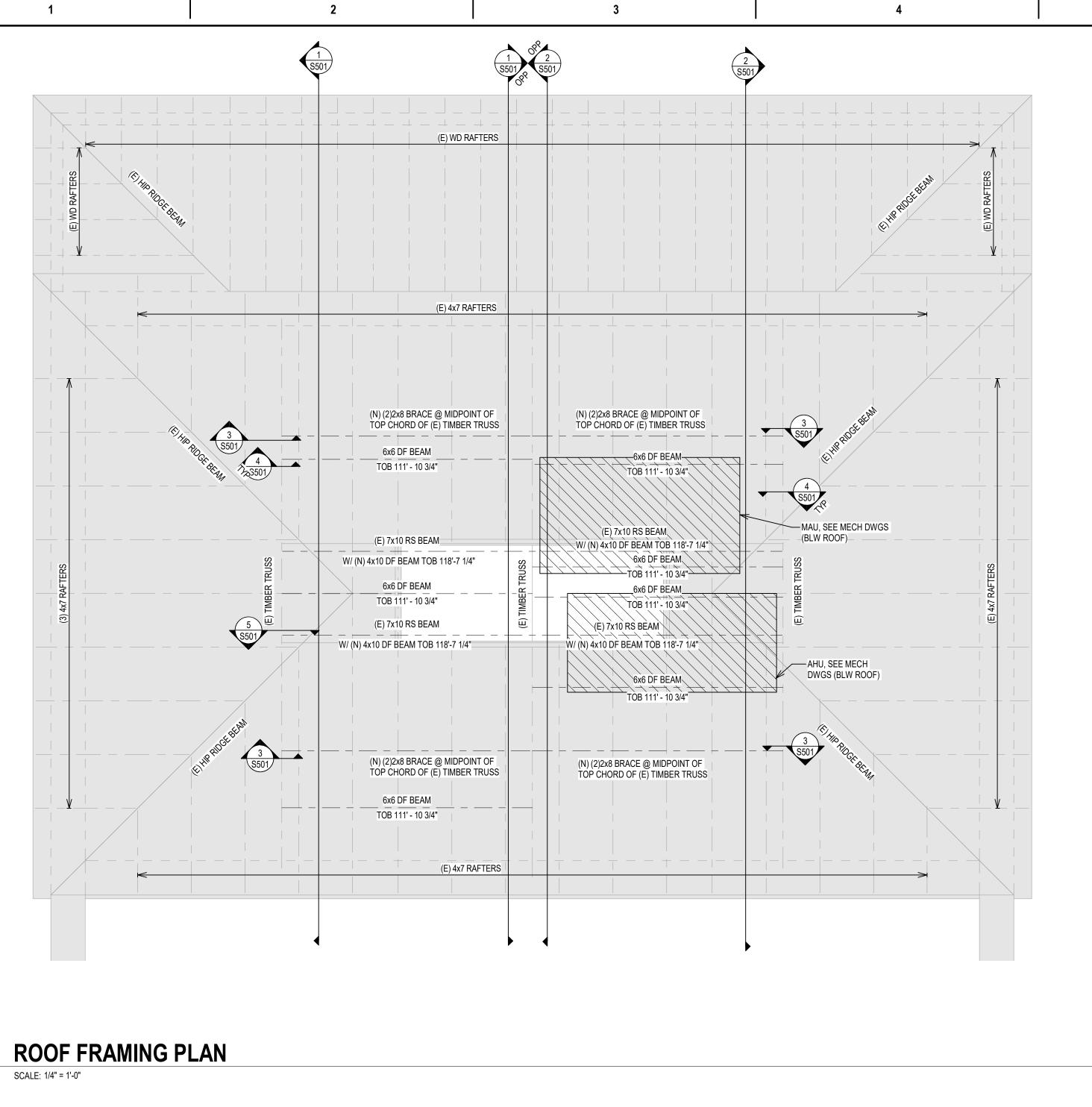
FLOOR FRAMING PLAN

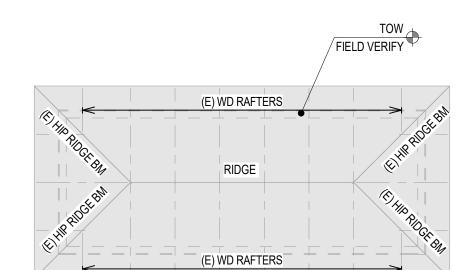
SHEET NOTES

FLOOR FRAMING PLAN NOTES

- SEE SHEET SERIES S-0xx FOR STRUCTURAL NOTES. VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT
- EXISTING FLOOR IS 4" CONCRETE ATOP 1" TIMBER DECKING SUPPORTED BY THE WOOD BEAMS AND STEEL GIRDERS.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
- VERIFY NUMBER, SIZE, AND LOCATION OF ALL OPENINGS IN FLOOR FRAMING WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME OPENINGS GREATER THAN 12" WITH (1) 2X6 EACH SIDE MINIMUM.
- FLOOR DRAIN PIPES SHALL NOT CONFLICT WITH EXISTING WOOD FLOOR BEAMS. COORDINATE LOCATION WITH ARCHITECHTURAL AND FOOD SERVICE IF ADJUSTMENT IS REQUIRED.

| PROJECT | CONSULTANTS | | | ARCHITECT OF RECORD | STAMP | Office of | Drawing Title FLOOR FRAMING PLAN | Phase | Project Title UPGRADE NUTRITION AND FOOD | Project Number VA #VA #568A4-22-205 AEI #22-276 |
|-----------------------------|---|---|---|---------------------|--|------------------------------------|----------------------------------|-----------------------|---|---|
| lents/REVIT | MECHANICAL / ELECTRICAL: WEST PLAINS ENGINEERING, INC. | STUCTURAL: | FOOD SERVICE: hc.design Taudscrince, better by design. | A/E: | REG. NO. | Construction and Facilities | | PERMIT/ BID SET | SERVICE DESIGN | Building Number 2 |
| stink/Docum | WEST PLAINS ENGINEERING, INC. ALE | | HC DESIGN 614 FERGUSON AVE STE 11 | STONE GROU | 6192 COMICHAEL D. ZAMICHAEL D. ALBERTSON | Management | Approved: | FOR OFFICIAL USE ONLY | Location HOT SPRINGS, SD | Drawing Number |
| Revision# Description Date: | RAPID CITY, SD 57702 RAF Phone: 605-348-7455 Pho | RAPID CITY, SD 57702 E Phone: 605-343-9606 F | BOZEMAN, MT 59718 Phone: 406-522-59719 | ARCHITECTS | 6/13/23 | U.S. Department of Veterans Affair | rs | | Issue Date Checked Drawn 06.13.2023 MDA JRK | S101 |





UPPER ROOF FRAMING PLAN

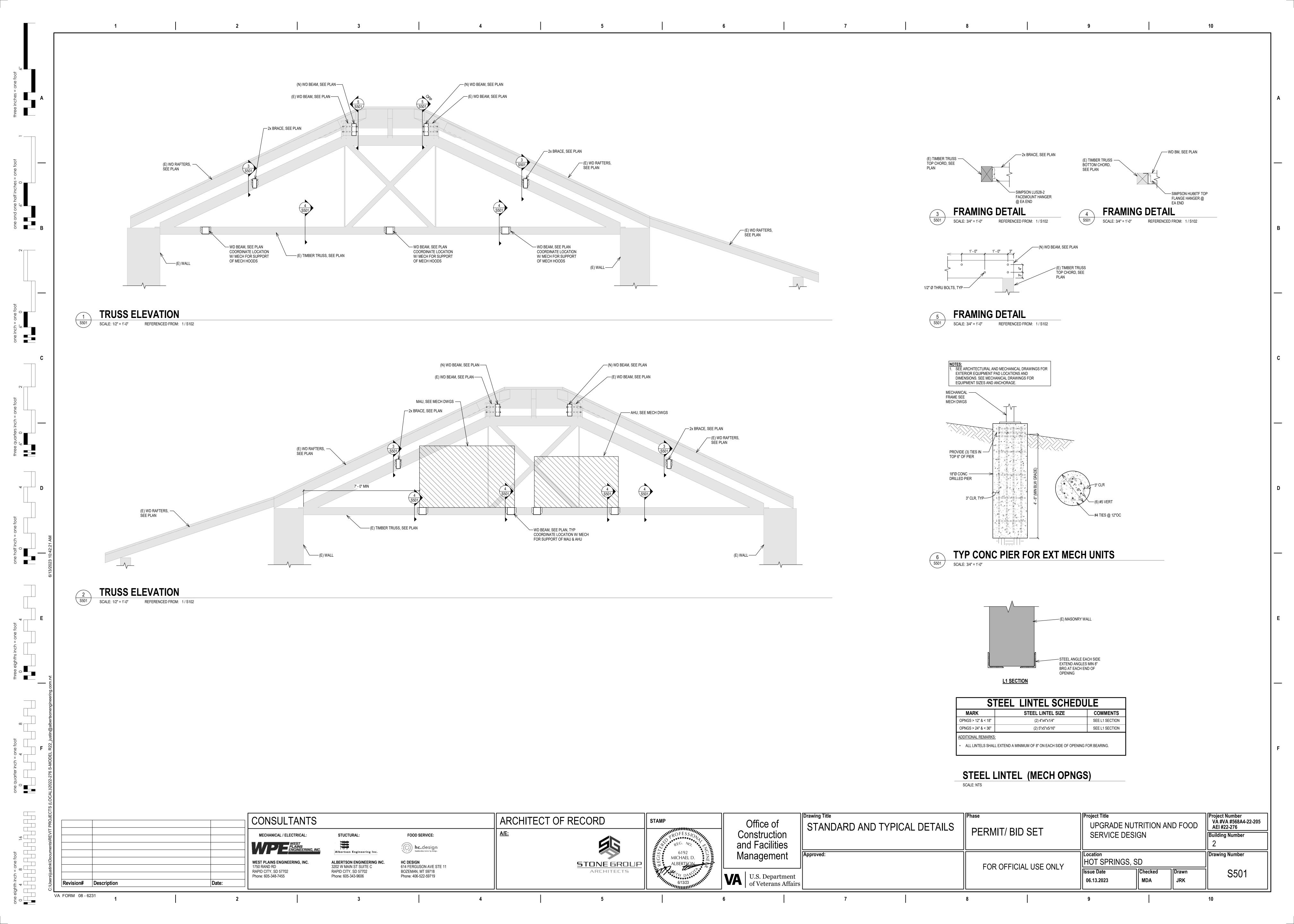
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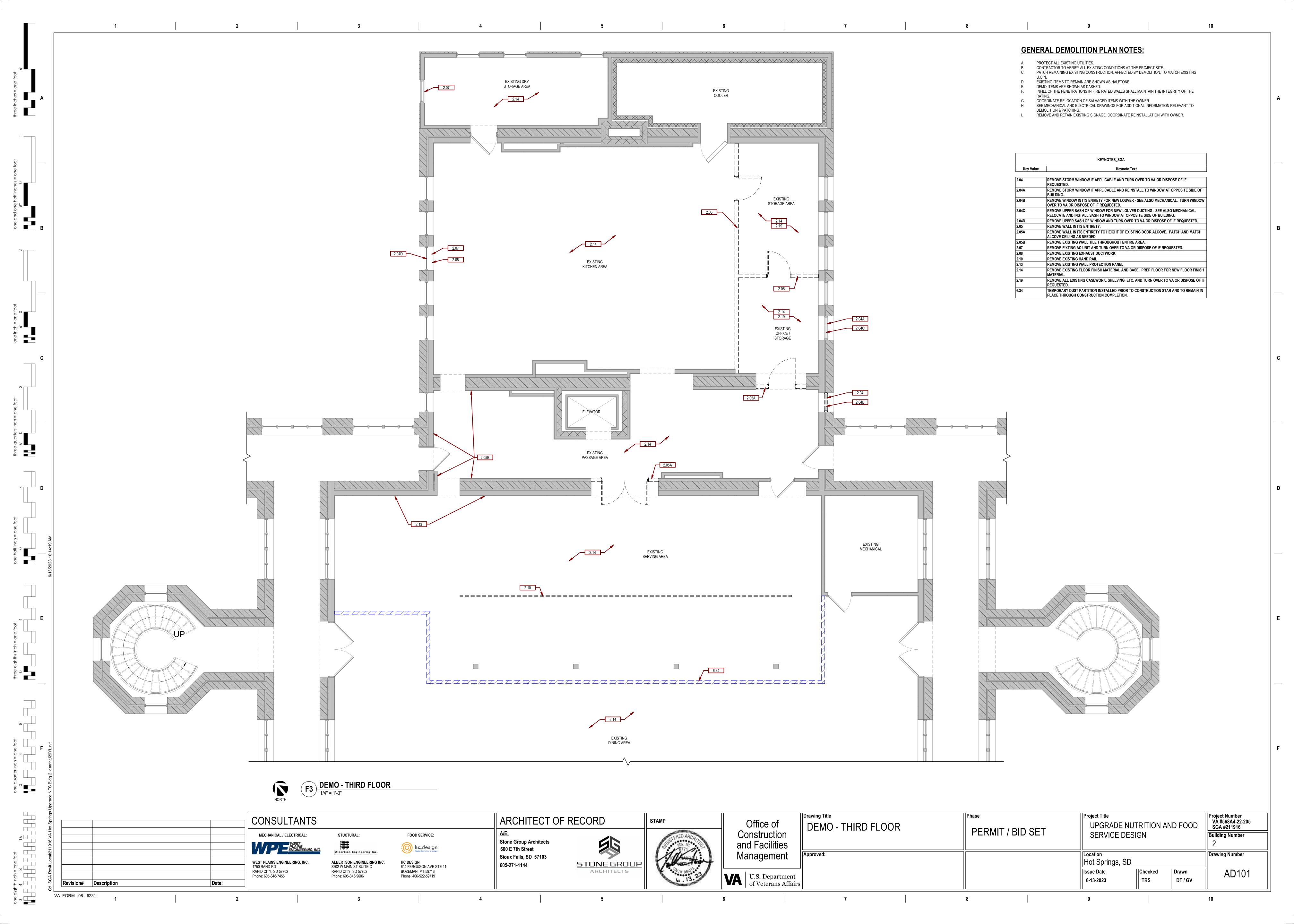
SHEET NOTES

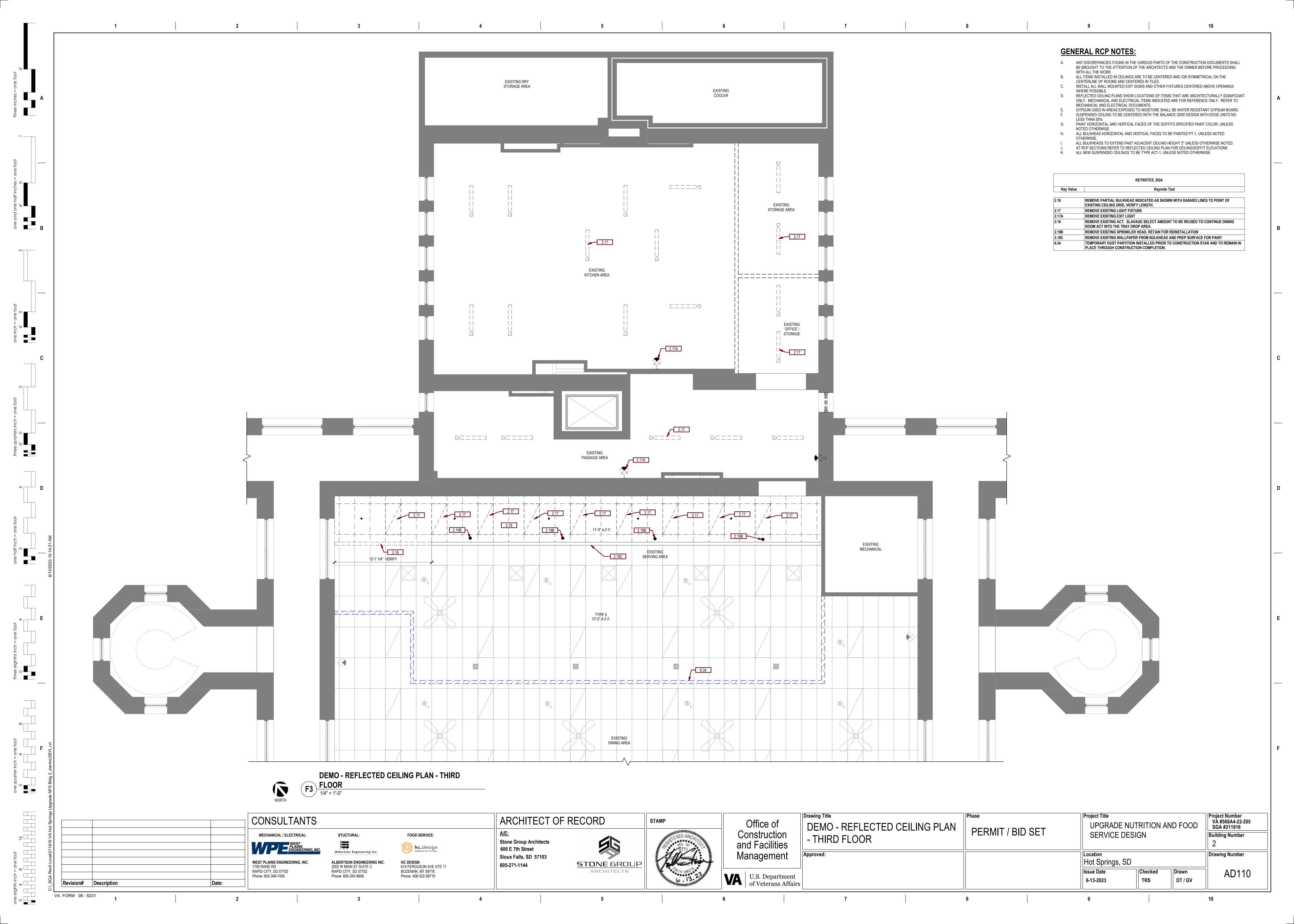
ROOF FRAMING PLAN NOTES

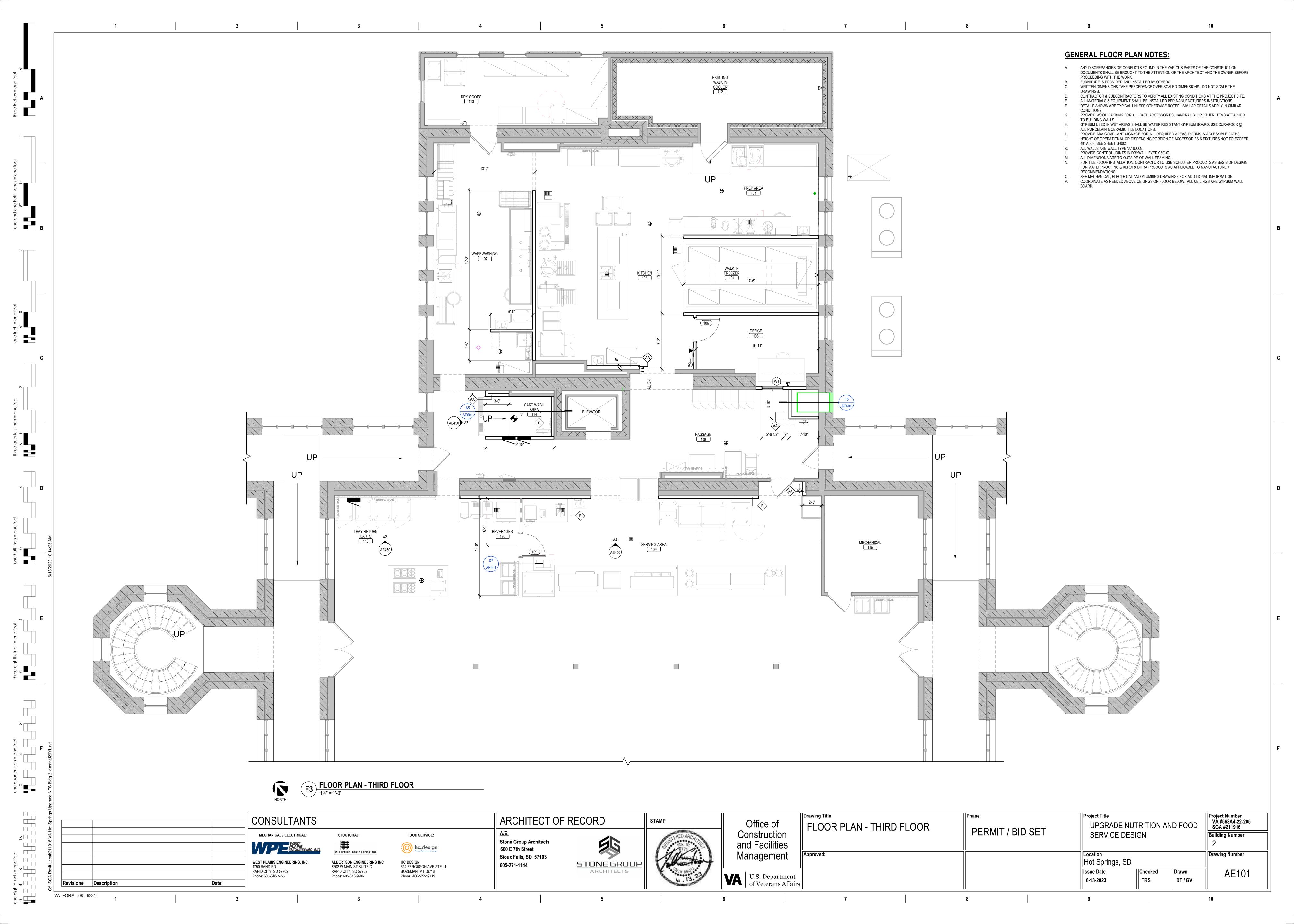
- SEE SHEET SERIES S-0xx FOR STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF EXISTING FLOOR REFERENCE ELEVATION SET AT 100' - 00" (THIRD FLOOR).
- FOR MECHANICAL OPENING LINTELS SEE TYPICAL DETAILS ON SHEET SERIES S-5xx.

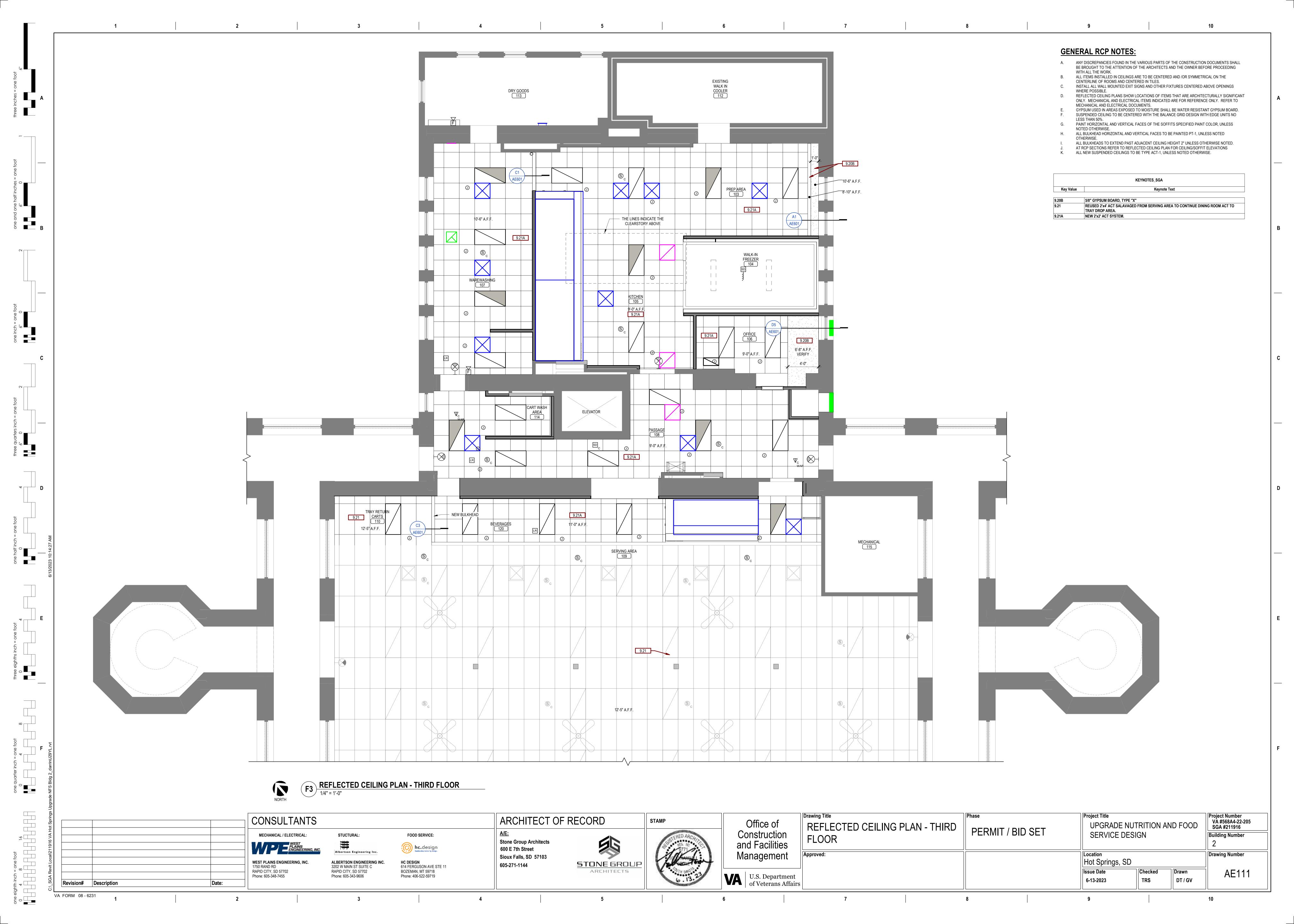
| | CONSULTANTS | | | ARCHITECT OF RECORD | STAMP | ○ (C; C | | | II * | NUTRITION A | ND FOOD | VA #VA #568A4-22-205 AEI #22-276 |
|-----------------------------|---|--|---|--|---|---|--|---|--|--|--|--|
| | MECHANICAL / ELECTRICAL: WEST PLAINS | STUCTURAL: | FOOD SERVICE: | A/E: | REG. NO. | Construction | TOOT TRAINING LAN | PERMIT/ BID SET | | | | Building Number 2 |
| | | Albertson Engineering Inc. ALBERTSON ENGINEERING INC. 3202 W MAIN ST SUITE C | | | 6192 C MICHAEL D. Z ALBERTSON | Management | Approved: | FOR OFFICIAL LISE ONLY | Location HOT SPRING | S, SD | | Drawing Number |
| Revision# Description Date: | RAPID CITY, SD 57702 Phone: 605-348-7455 | RAPID CITY, SD 57702 Phone: 605-343-9606 | BOZEMAN, MT 59718 Phone: 406-522-59719 | ARCHITECTS | 6/13/23 | U.S. Department of Veterans Affairs | | TOR OFFICIAL OOL ONLY | 1ssue Date 06.13.2023 | Checked MDA | Drawn JRK | S102 |
| | | MECHANICAL / ELECTRICAL: WEST PLAINS ENGINEERING, INC. 1750 RAND RD RAPID CITY, SD 57702 Phone: 605-348-7455 | WEST PLAINS ENGINEERING, INC. WEST PLAINS ENGINEERING, INC. 1750 RAND RD RAPID CITY, SD 57702 Phone: 605-348-7455 RAPID CITY, SD 57702 Phone: 605-343-9606 | MECHANICAL / ELECTRICAL: WEST PLAINS ENGINEERING, INC. WEST PLAINS ENGINEERING, INC. 1750 RAND RD RAPID CITY, SD 57702 Phone: 605-348-7455 Phone: 605-343-9606 MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: hc.design Roudenway, better by blodge. HC DESIGN 614 FERGUSON AVE STE 11 BOZEMAN, MT 59718 Phone: 605-343-9606 Phone: 406-522-59719 | MECHANICAL / ELECTRICAL: WEST PLAINS ENGINEERING, INC. 1750 RAND RD RAPID CITY, SD 57702 Phone: 605-348-7455 Phone: 605-343-9606 Phone: 406-522-59719 MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: (i) hc.design 614 FERGUSON AVE STE 11 802EMAN, MT 59718 Phone: 406-522-59719 | MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: A/E: | CONSULTANTS ARCHITECTOF RECORD MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: MICHAEL D. 3202 W MAIN ST SUITE C 8614 ERGION AVE STE 11 MICHAEL D. 3202 W MAIN ST SUITE C 8614 ERGION AVE STE 11 MARCHITECT OF RECORD Office of Construction and Facilities Management ALBERTSON ENGINEERING, INC. 1750 RAND RD 1757 RD 27702 BOZEMAN MT 59718 ARCHITECT OF RECORD OFFICE OF CONSTRUCTION AND AVENUAL ALBERTSON ENGINEERING INC. MICHAEL D. 3202 W MAIN ST SUITE C 8614 ERGION AVE STE 11 MANAGEMENT OF THE CONSTRUCTION ARCHITECT OF RECORD ALBERTSON ENGINEERING, INC. 1750 RAND RD 1757 RD 27702 BOZEMAN MT 59718 | CONSULTANTS ARCHITECT OF RECORD MECHANICAL/ ELECTRICAL: STUCTURAL: FOOD SERVICE: MEST PLAINS ENGINEERING, INC. 150 PAND RD MEST PLAINS ENGINEERING, | CONSULTANTS ARCHITECT OF RECORD ARCHITECT OF RECORD ARCHITECT OF RECORD Office of Construction and Facilities Management Office of Construction and Facilities Management Nest plants engineering. No. 1750 RAND RO. 1750 RA | CONSULTANTS ARCHITECT OF RECORD ARCHITECT OF RECORD ARCHITECT OF RECORD Office of Construction and Facilities Management Office of Construction and Facilities Management Approved: FOR OFFICIAL USE ONLY FOR OFFIC AND ONLY FOR OFFIC A | ARCHITECT OF RECORD ARCHITECT OF RECORD MECHANICAL / ELECTRICAL: MEST PLANS ENGINEERING, INC. JOURNAL / STORM ALBERTSON ENGINEERING, INC. JOURNAL / ELECTRICAL: MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOURNAL / ELECTRICAL: MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. JOUR MAIN ST SUITE C. MEST PLANS ENGINEERING, INC. | CONSULTANTS ARCHITECT OF RECORD MECHANICAL/ELECTRICAL: STUCTURAL: FOOD SERVICE: MEST PLAINS ENGINEERING, INC. 17/2 PROPRIATE OF STUTY O |

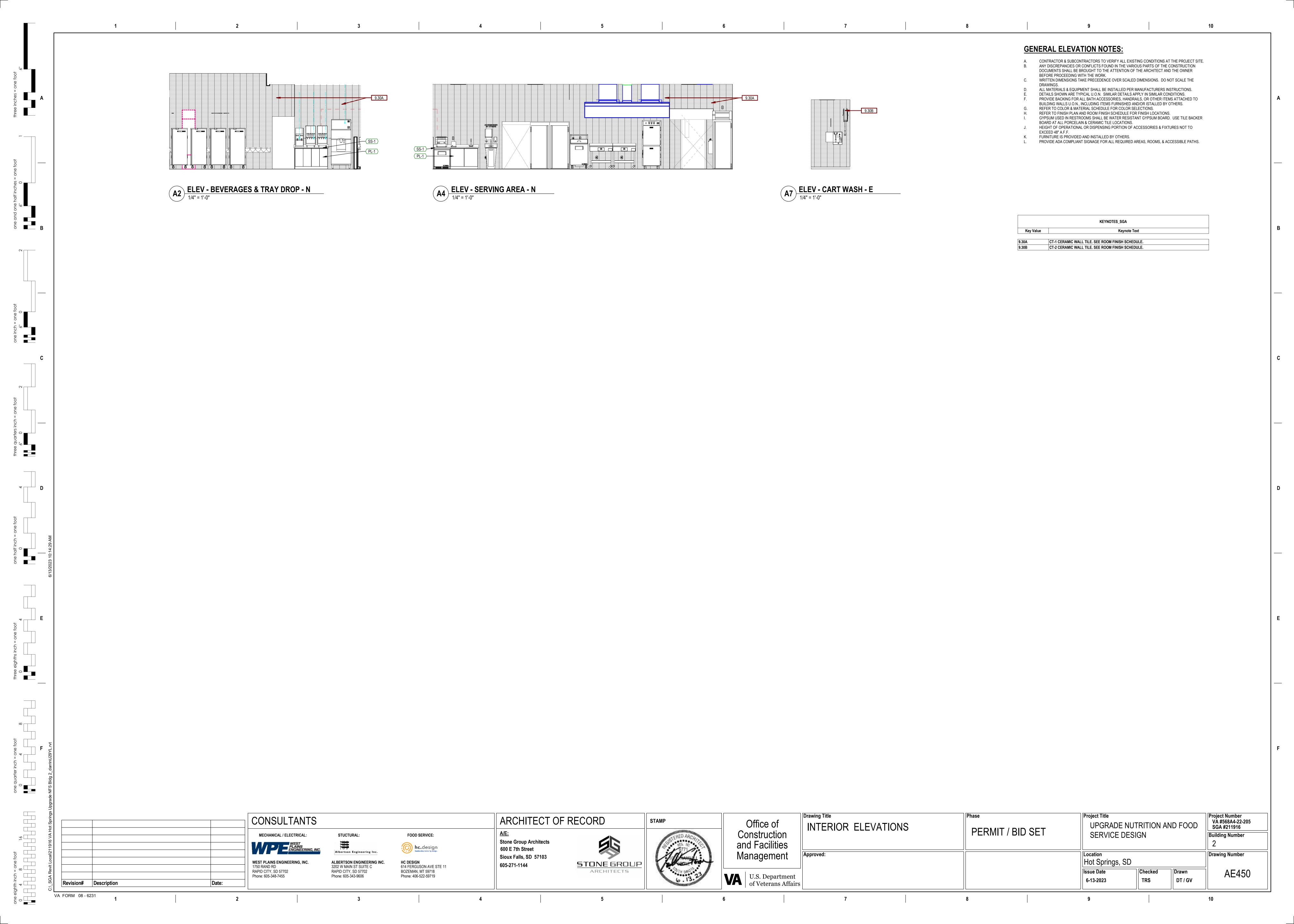


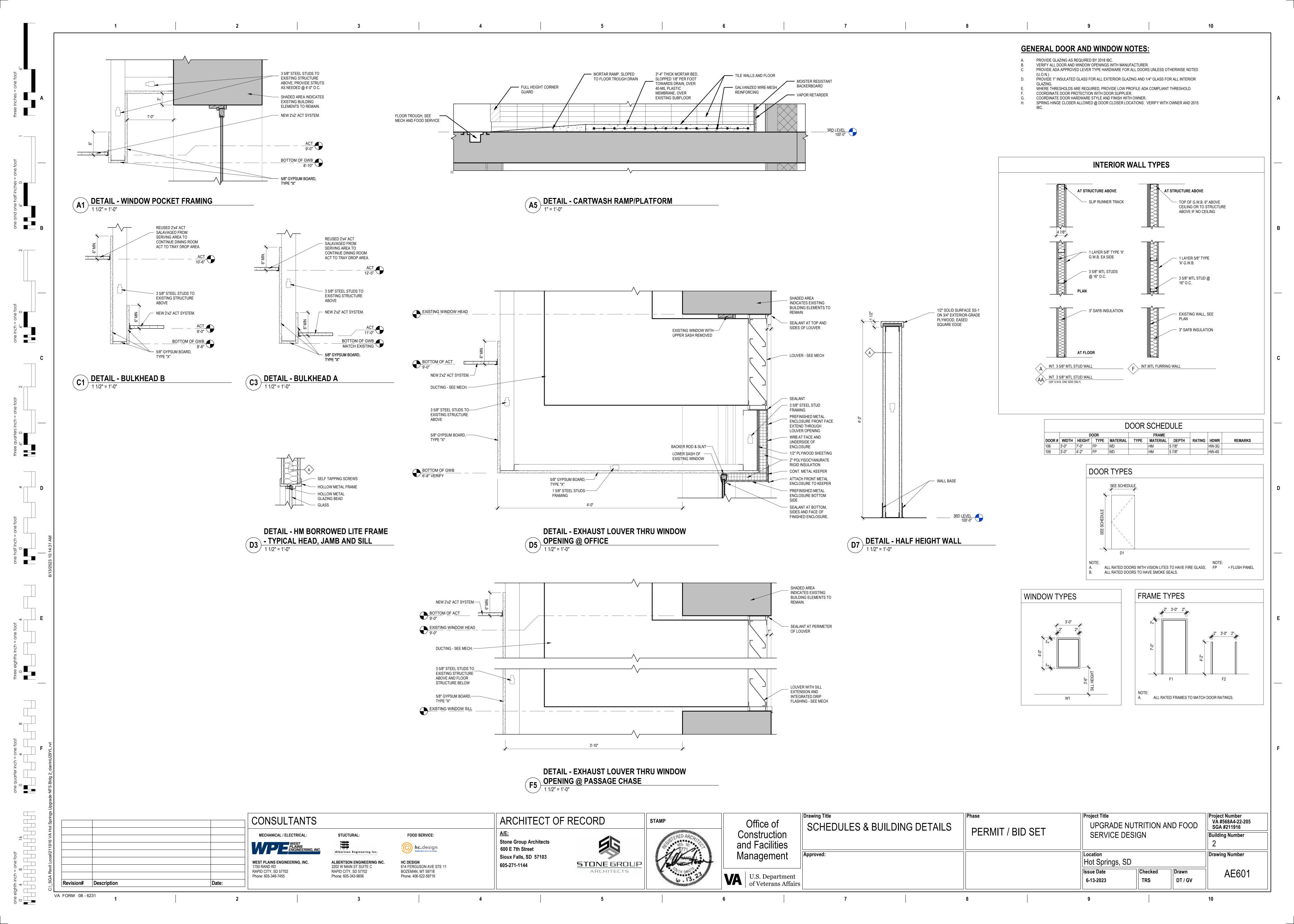


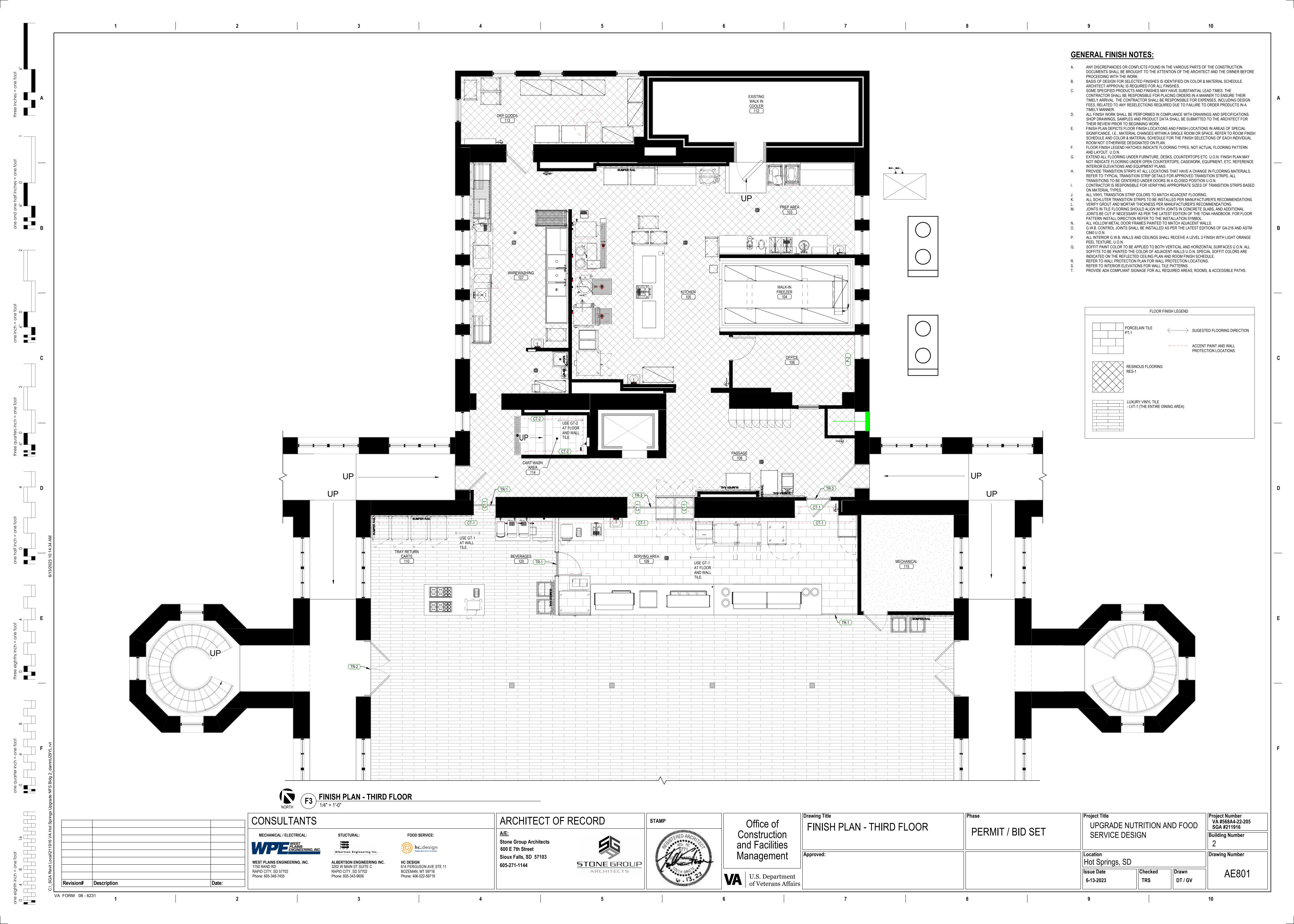


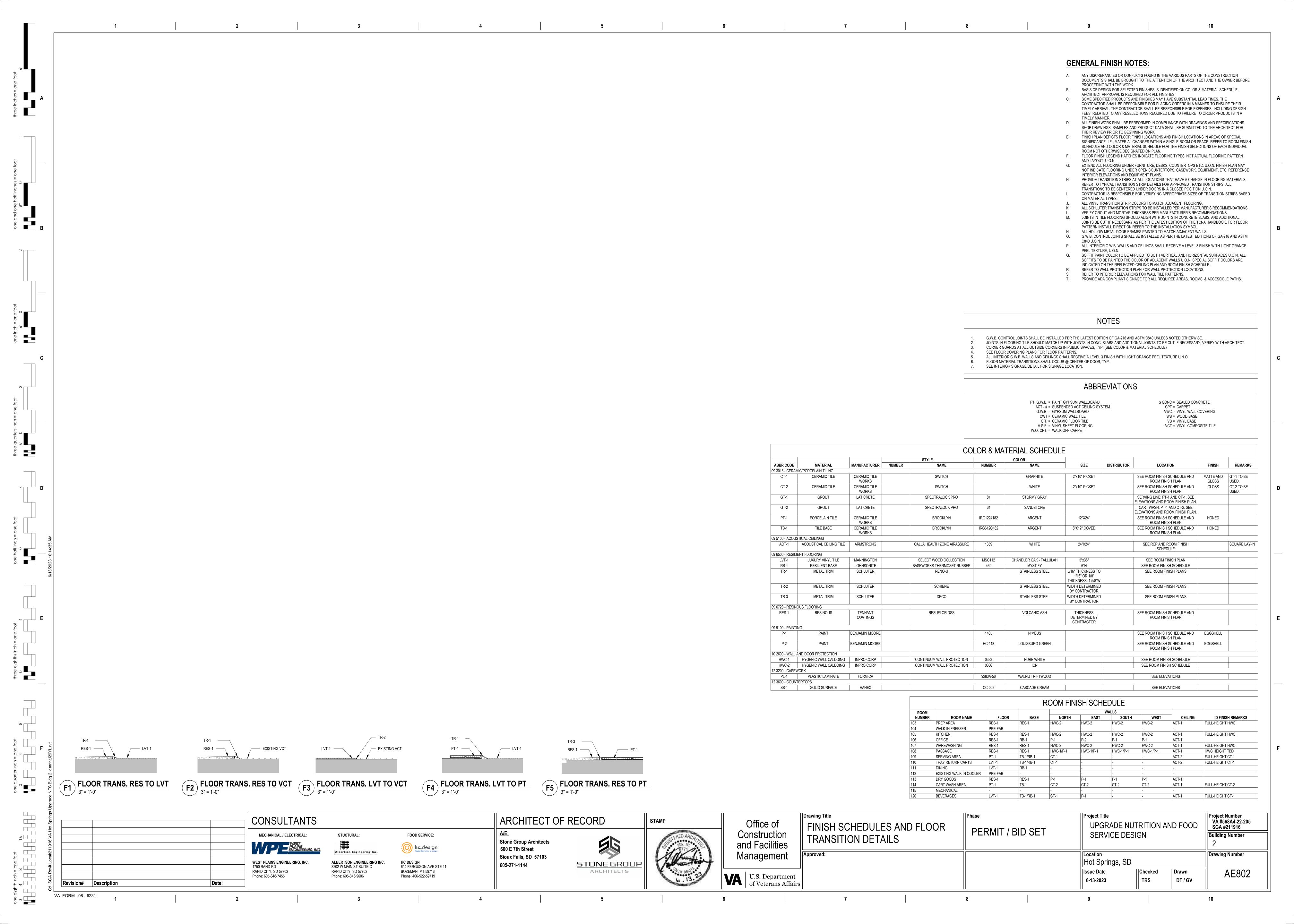


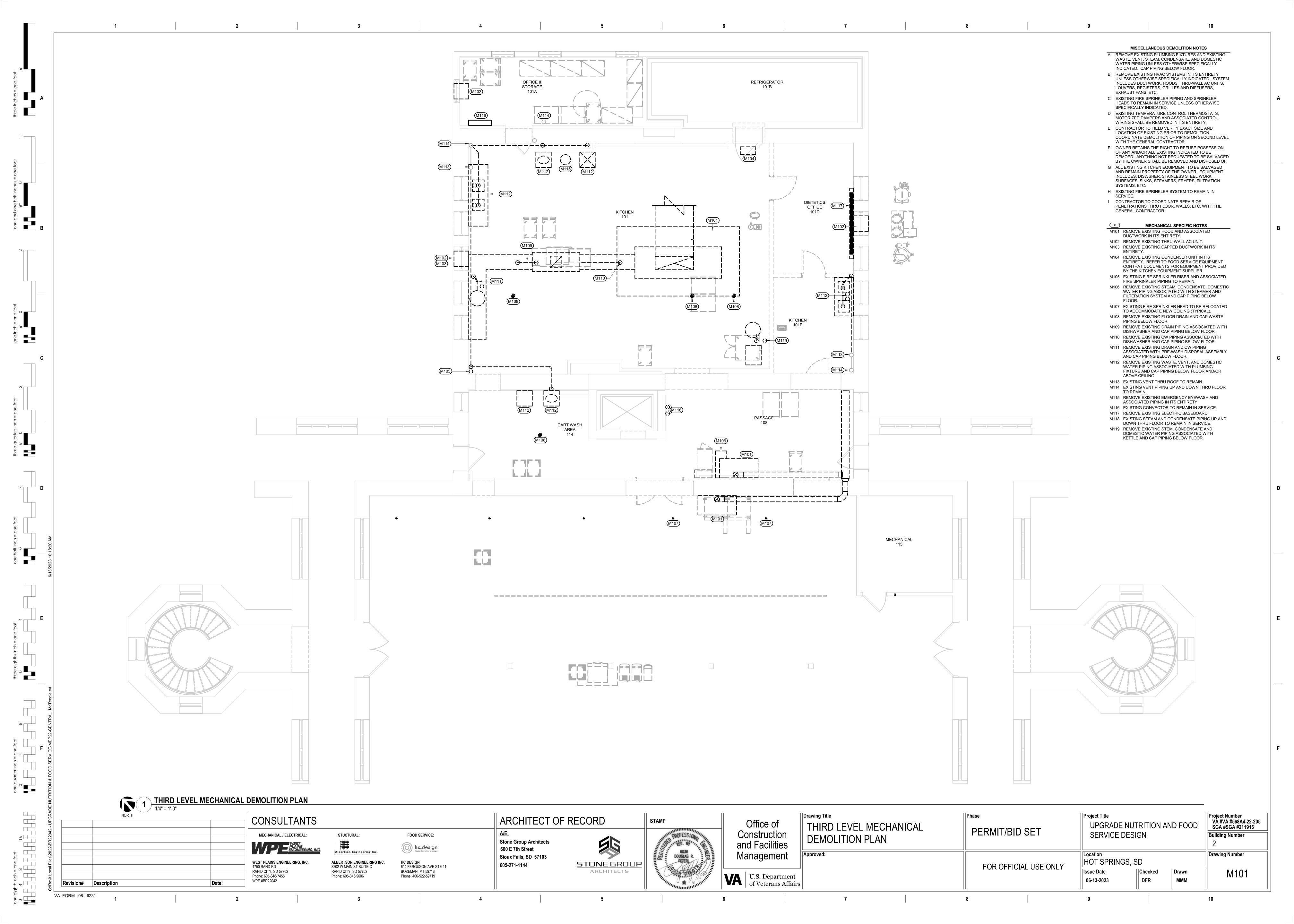


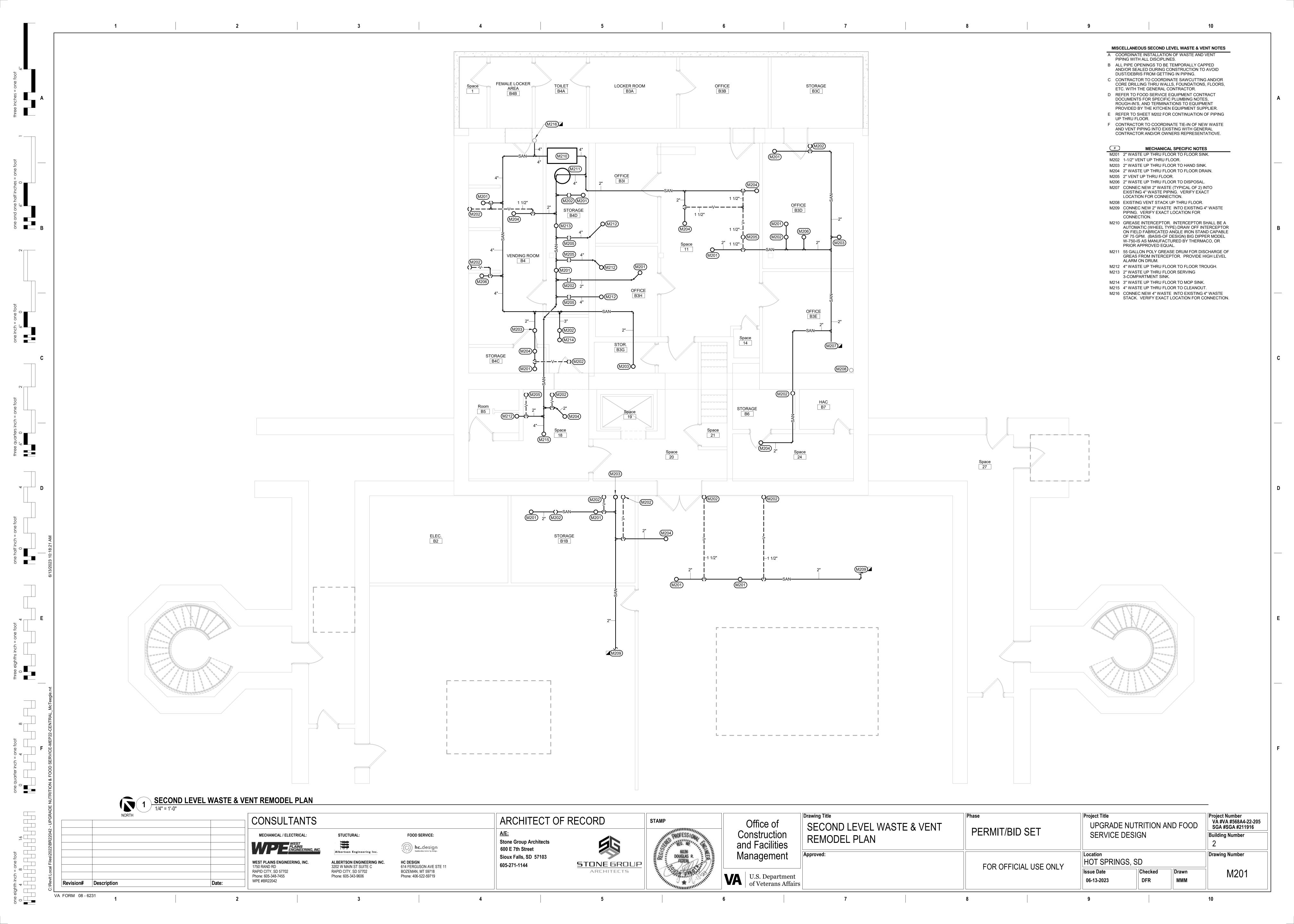


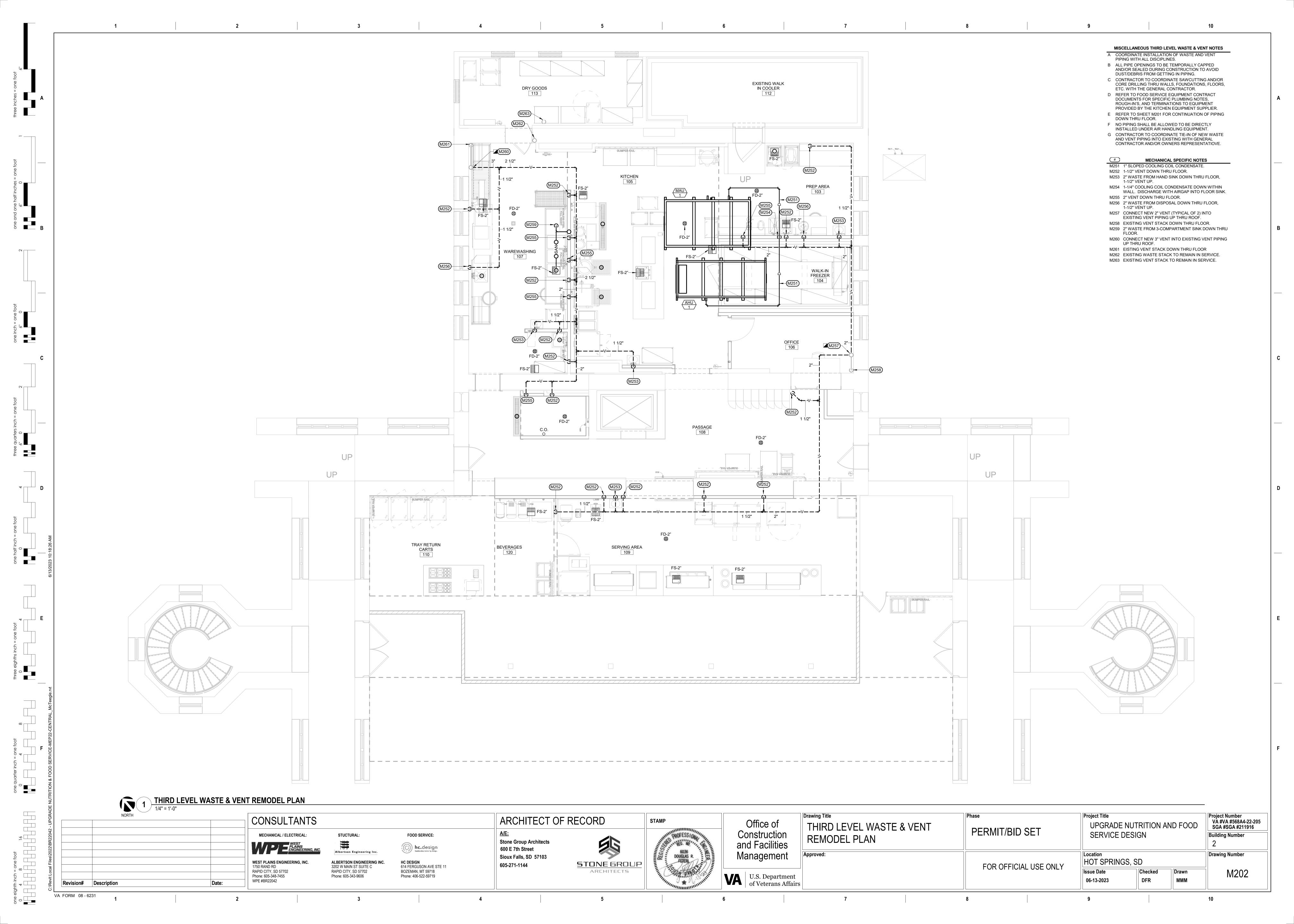


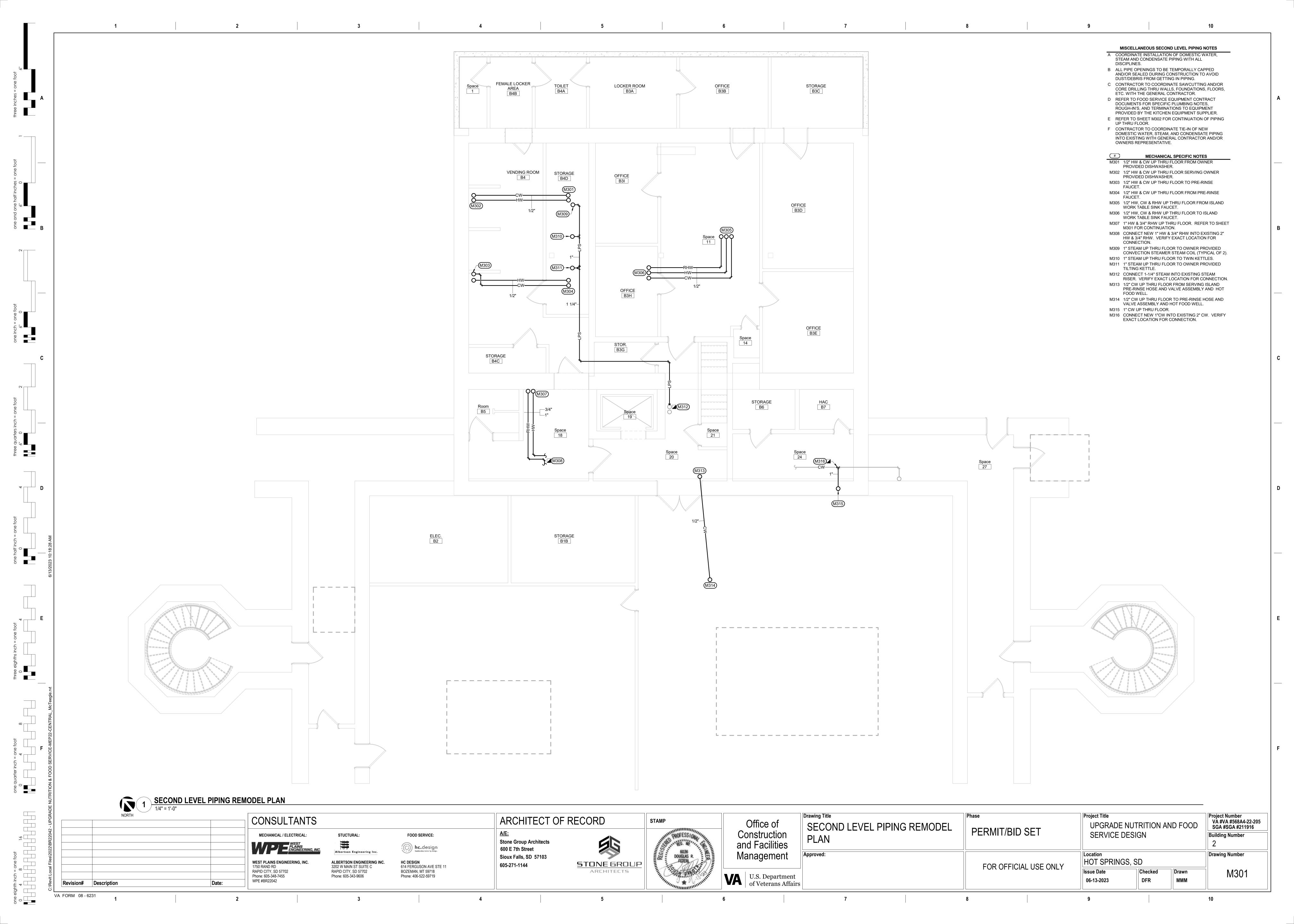


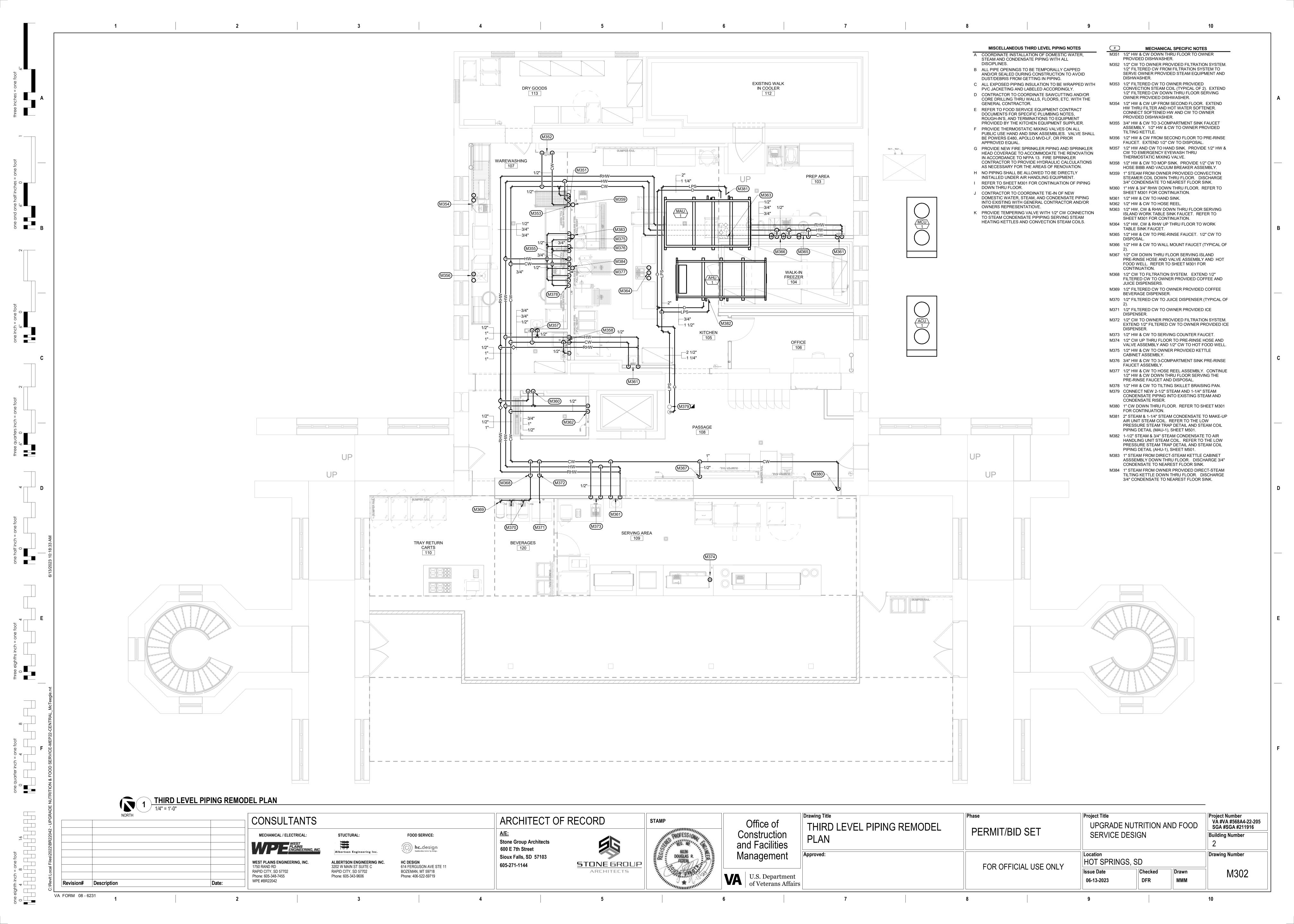


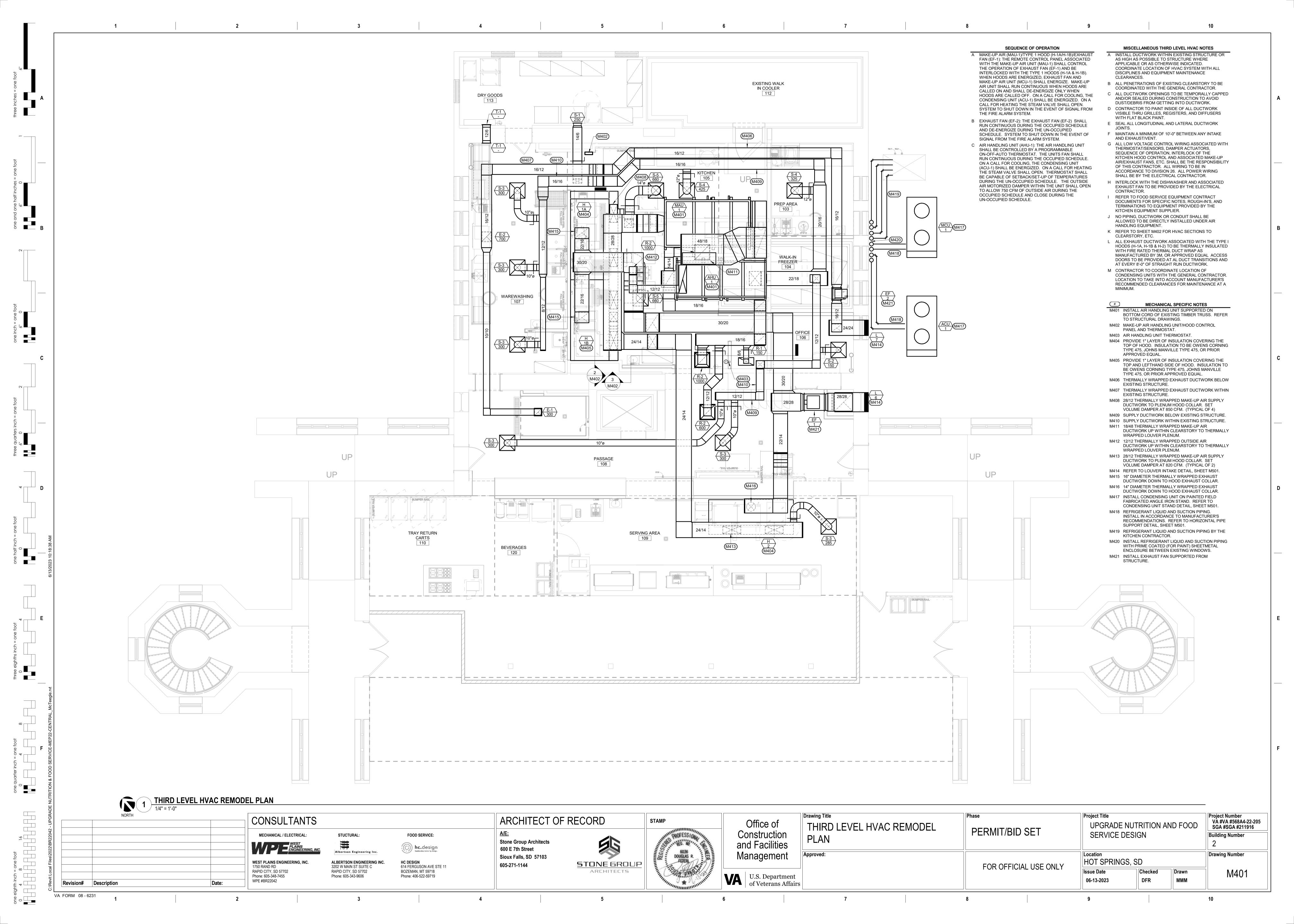


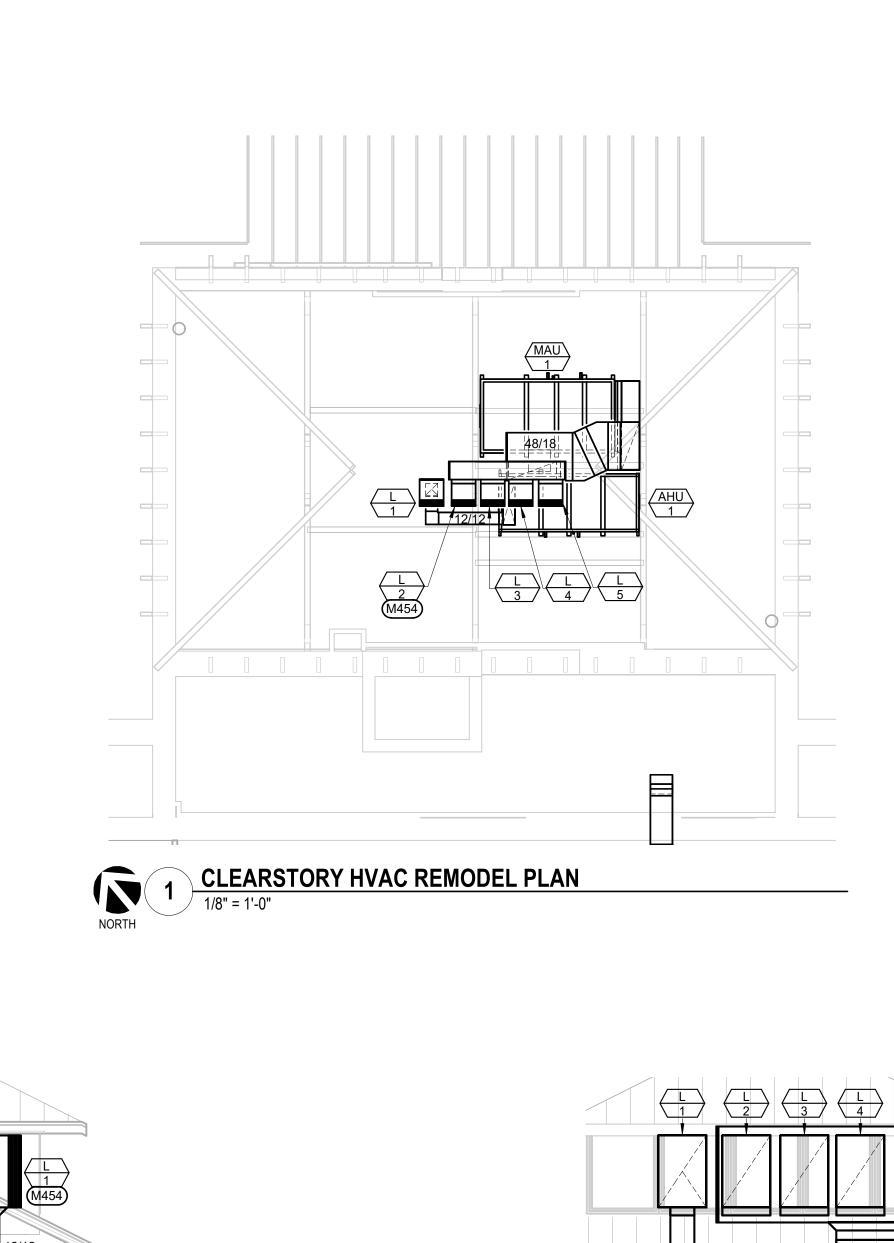


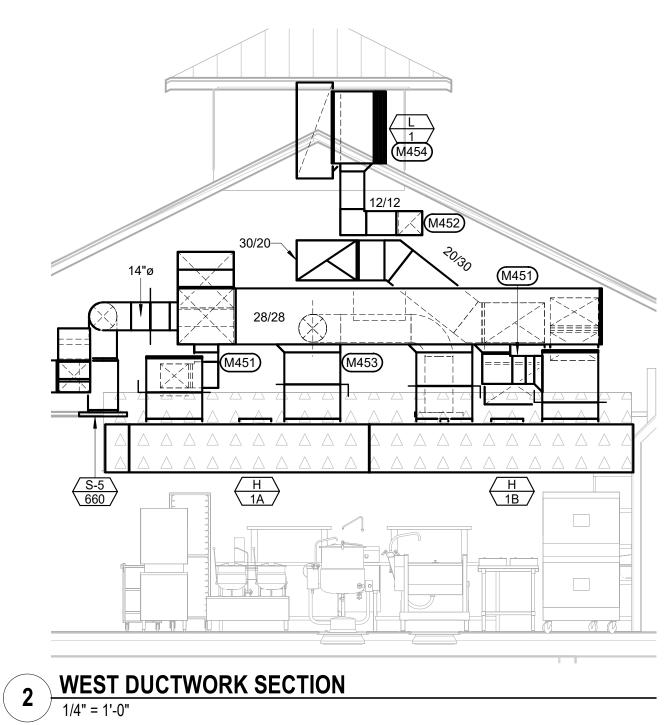






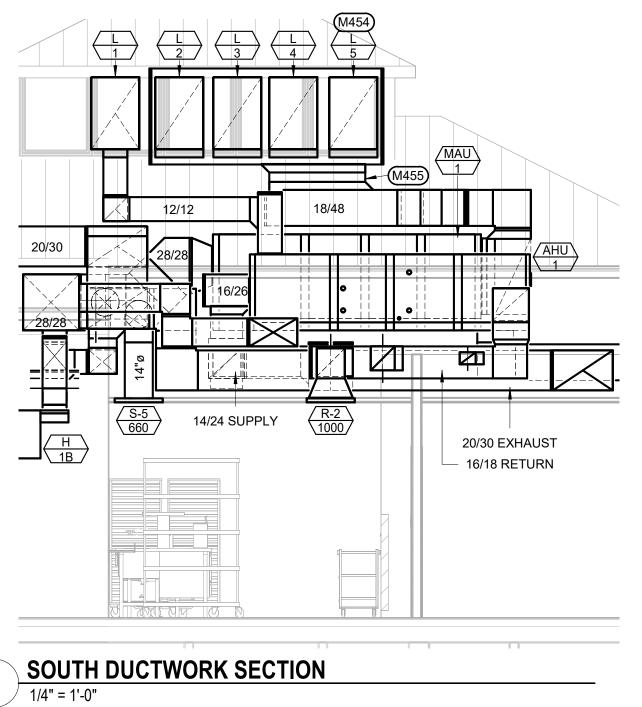






one eighth inch = one foot

0 4 8 16



MISCELLANEOUS HVAC SECTION NOTES

A INSTALL DUCTWORK WITHIN EXISTING STRUCTURE OR AS HIGH AS POSSIBLE TO STRUCTURE WHERE APPLICABLE OR AS OTHERWISE INDICATED. COORDINATE LOCATION OF HVAC SYSTEM WITH ALL DISCIPLINES AND EQUIPMENT MAINTENANCE

B ALL PENETRATIONS OF EXISTING CLEARSTORY TO BE COORDINATED WITH THE GENERAL CONTRACTOR.
 C ALL DUCTWORK OPENINGS TO BE TEMPORALLY CAPPED AND/OR SEALED DURING CONSTRUCTION TO AVOID DUST/DEBRIS FROM GETTING INTO DUCTWORK.
 D SEAL ALL LONGITUDINAL AND LATERAL DUCTWORK

E MAINTAIN A MINIMUM OF 10'-0" BETWEEN ANY INTAKE

F NO PIPING, DUCTWORK OR CONDUIT SHALL BE ALLOWED TO BE DIRECTLY INSTALLED UNDER AIR

MECHANICAL SPECIFIC NOTES

M451 12/14 THERMALLY WRAPPED MAKE-UP AIR SUPPLY DUCTWORK TO SUPPLY HOOD PLENUM.

M452 12/12 THERMALLY WRAPPED OUTSIDE AIR

M453 28/12 THERMALLY WRAPPED MAKE-UP AIR SUPPLY DUCTWORK TO PLENUM HOOD COLLAR. SET VOLUME DAMPER AT 850 CFM. (TYPICAL OF 4)
M454 REFER TO LOUVER-INTAKE DETAIL, SHEET M501

M455 18/48 THERMALLY WRAPPED MAKE-UP AIR DUCTWORK UP WITHIN CLEARSTORY TO THERMALLY

G REFER TO SHEET M401 FOR HVAC PLAN.

CLEARANCES.

JOINTS.

AND EXHAUST/VENT.

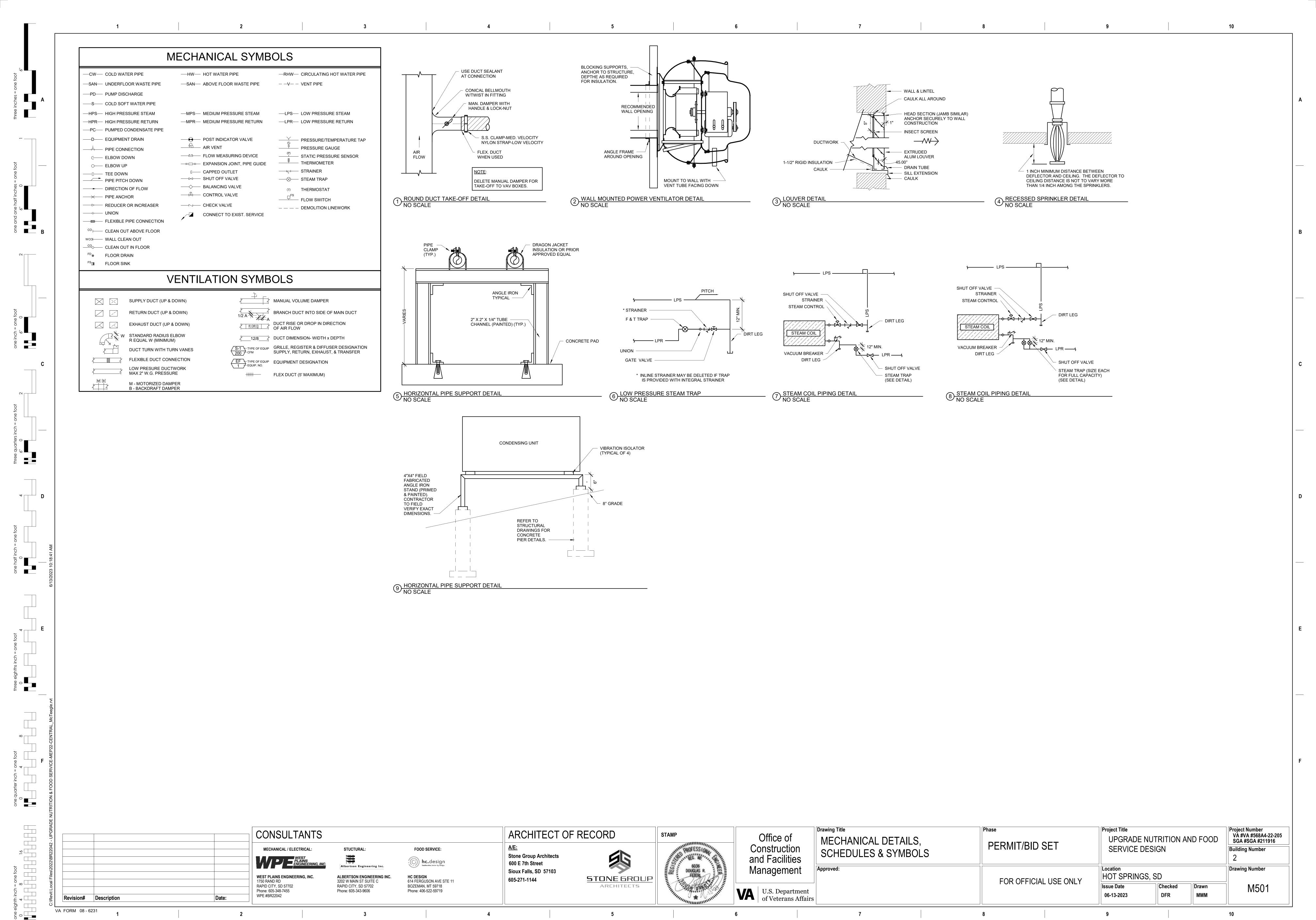
HANDLING EQUIPMENT.

DUCTWORK TO AHU-1.

WRAPPED LOUVER PLENUM.

(TYPICAL).

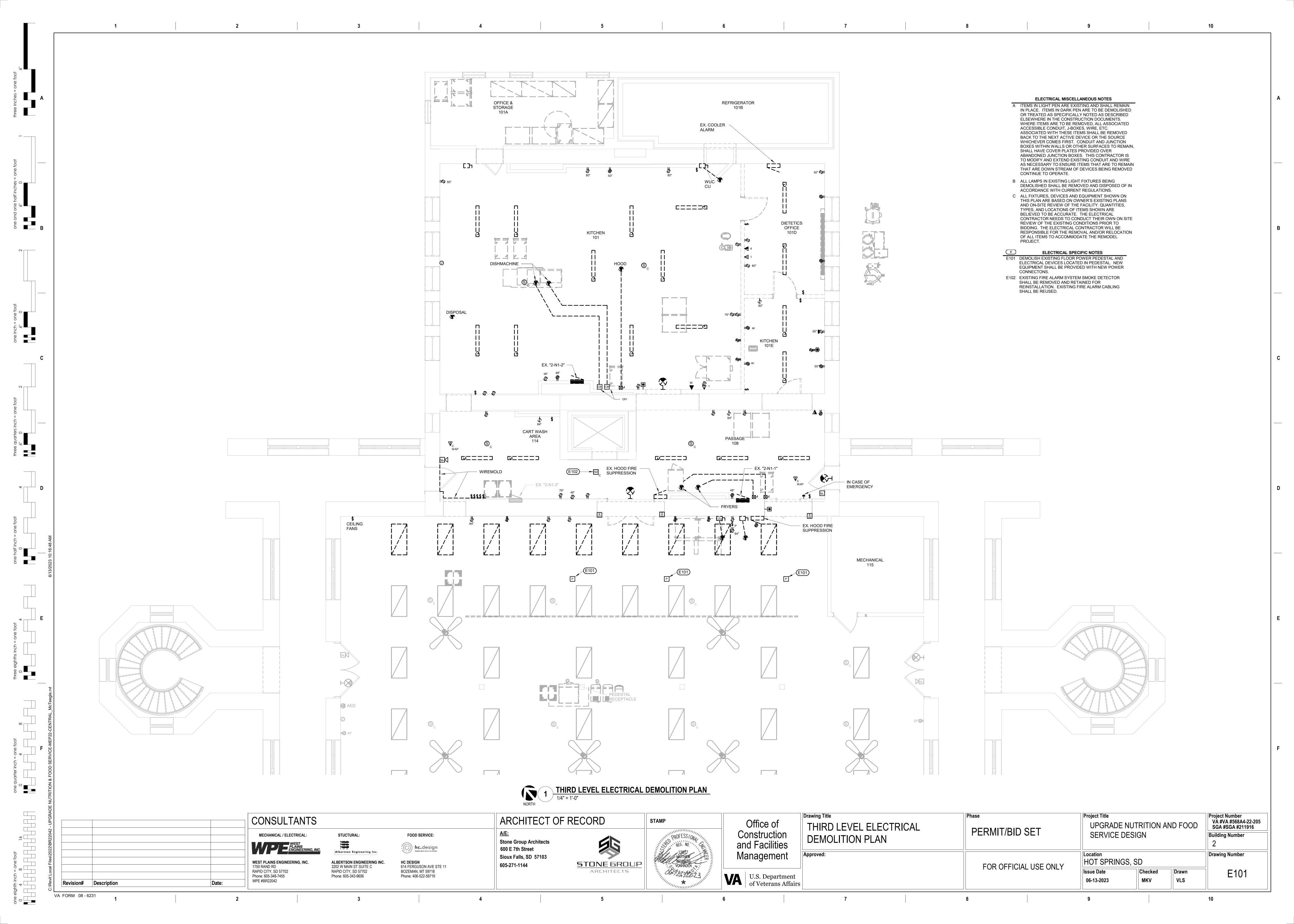
Project Number VA #VA #568A4-22-205 SGA #SGA #211916 Drawing Title Project Title ARCHITECT OF RECORD CONSULTANTS STAMP Office of UPGRADE NUTRITION AND FOOD CLEARSTORY HVAC PLAN & HVAC PERMIT/BID SET Construction and Facilities SERVICE DESIGN **Building Number** MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: SECTIONS **Stone Group Architects** hc.design 600 E 7th Street Albertson Engineering Inc. Drawing Number Management Location Sioux Falls, SD 57103 HOT SPRINGS, SD **WEST PLAINS ENGINEERING, INC.** 1750 RAND RD **ALBERTSON ENGINEERING INC** HC DESIGN 614 FERGUSON AVE STE 11 STONE GROUP 605-271-1144 FOR OFFICIAL USE ONLY 3202 W MAIN ST SUITE C RAPID CITY, SD 57702 Phone: 605-343-9606 Checked Issue Date M402 RAPID CITY, SD 57702 **ARCHITECTS** Drawn BOZEMAN, MT 59718 **VA** U.S. Department of Veterans Affairs Phone: 605-348-7455 Phone: 406-522-59719 DFR 06-13-2023 MMM WPE #BR22042 Revision# Description VA FORM 08 - 6231

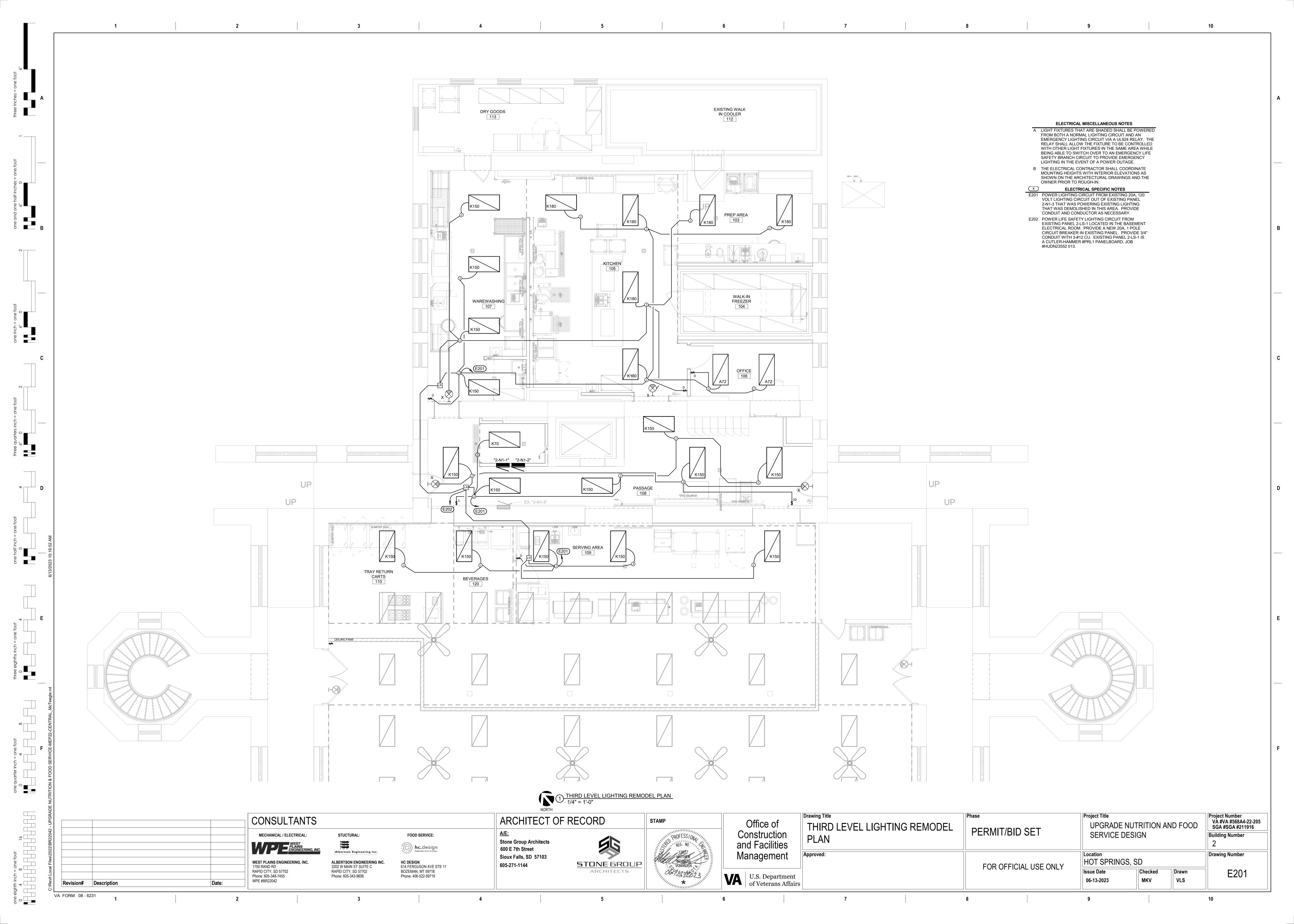


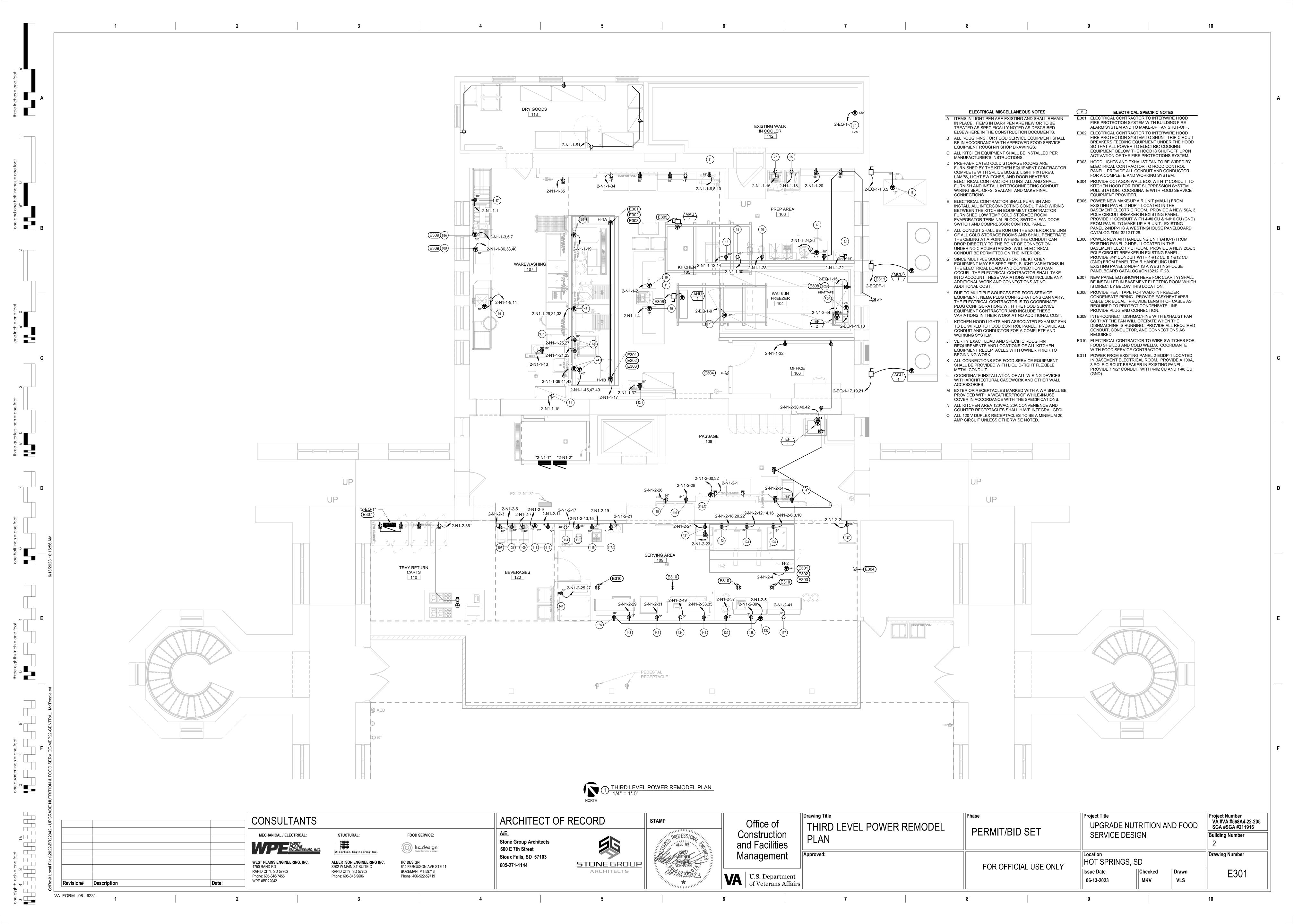
AIR HANDLING/MAKE-UP AIR SCHEDULE STEAM HEATING COIL SUPPLY MAX O.A. CFM E.S.P. HP SCCR VOLTAGE PHASE ISOLATION TYPE ROWS FPI DB WB DB WB DB APD BTUH VELOCITY CAPACITY TOTAL | REFRIGERANT | VELICITY | TYPE | NUMBER | MANUFACTURER | TYPE FPM ROWS FPI CFM CAH006GDAC KITCHEN 1,2,3,4,6,7,8,9,10,11 2750 750 1.25 in-wg 3 208 3 INTERNAL DX 6 8 80 °F 62 °F 54.5 °F 51.7 °F 95 °F 0.60 in-wg 76960 R-410A 480 2 0 2750 15" X 36" 12 °F 0.29 in-wg 251007 15 ftH2O 265 730 12 CAH014GDAC KITCHEN 1,3,4,5,6,7,8,10,11 6645 6645 2.00 in-wg 7.5 208 3 INTERNAL DX 3 10 95 °F 62 °F 65.0 °F 51.2 °F 95 °F 0.27 in-wg 191255 R-410A 480 1 0 6645 24" X 58" -20 °F 0.28 in-wg 570491 15 ftH2O 602 690 12 PROVIDE WITH O.A. MOTORIZED DAMPER. FACTORY CONTROLLED MOTORIZED DAMPERS. MIXING BOX WITH ANGLE FILTERS. DOWNFLOW SUPPLY, BACK RETURN. FACTORY CONTROLLED MOTORIZED DAMPERS. UNIT TO BE DOUBLE WALL CONSTRUCTION WITH 2 INCHES OF 1.5 LB. INSULATION. PROVIDE WITH 2" PLEATED MERV 8 FILTERS. PROVIDE WITH VFD, SOLID STATE STEP CONTROLLER, EXHAUST FAN INTERLOCK. POWER WIRING BY THE ELECTRICAL CONTRACTOR. PROVIDE PROGRAMMABLE ON-OFF-AUTO THERMOSTAT. SINGLE POINT POWER CONNECTION. WIRING BY ELECTRICAL CONTRACTOR. PROVIDE VFD FOR SUPPLY FAN. POWER WIRING BY THE ELECTRICAL CONTRACTOR. SS DRAIN PAN DOUBLE SLOPED FOR POSITIVE DRAINAGE. DX COOLING COIL PERFROMANCE BASED ON 44 DEGREE F SUCTION TEMPERATURE. CONDENSING UNIT SCHEDULE KITCHEN HOOD SCHEDULE TYPE | NUMBER | MANUFACTURER | TYPE | LENGTH | WIDTH | DEPTH AAON CFM S.P.D. SIZE DIA CFM COMMENTS 1 126" 60" 24" 2360 0.81 in-wg H 1A CAPTIVEAIRE 6024 ND-2-PSP-F 1,3,4,5,6,7,8 H 1B CAPTIVEAIRE 6024 ND-2-PSP-F 1 126" 60" 24" 2360 0.81 in-wg 2,3,4,5,6,7,9 H 2 CAPTIVEAIRE 4824 ND-2-PSP-F 2 132" 48" 24" 1925 0.72 in-wg 2,3,4,5,6,7,8 INSTALL ON CONCRETE HOUSEKEEPING PAD AND FIELD FABRICATED PAINTED ANGLE IRON STAND. OUTDOOR THERMOSTAT TO SHUT UNIT OFF AT TEMPERATURES BELOW 50 DEG. F. DIMENSIONS ARE FOR HOOD ONLY. PROVIDE 14" STAINLESS STEEL MAU PLENUM TO WIDTH AND 12" STAINLESS STEEL UTILITY CABINET ON RIGHT SIDE OF HOOD TO LENGTH FOR OVERALL DIMENSIONS. PROVIDE CONDENSER COIL HAIL GUARDS. PROVIDE 5 YR COMPRESSOR WARRANTY. DIMENSIONS ARE FOR HOOD ONLY. PROVIDE 14" STAINLESS STEEL MAU PLENUM TO WIDTH FOR OVERALL DIMENSIONS. LOW AMBIENT CONTROL AND HEAD PRESSURE CONTROL. PROVIDE WITH FACTORY PREPIPED FIRE SUPPRESSION SYSTEM WITH MANUAL PULL STATION. COORDINALE LOCATION OF PULL STATION WITH THE GENERAL CONTRACTOR. PROVIDE WITH GREASE BAFFLE FILTER. DUAL CIRCUIT. PROVIDE REMOTE LCD CONTROL PANEL AT 48" A.F.F FOR INTERLOCKING LIGHTS, ASSOCIATED FAN AND MAKE-UP AIR UNIT. POWER WIRING BY ELECTRICAL CONTRACTOR. PROVIDE 304 STAINLESS STEEL SHROUD AS NECESSARY TO ACCOMMODATE FINISHED CEILING HEIGHTS. HOOD TO BE 430 STAINLESS STEEL BACK AND TOP OF HOOD INSULATION. BACK, TOP AND SIDEWALL OF HOOD INSULATION. REGISTER GRILLES AND DIFFUSER SCHEDULE MODEL WIDTH LENGTH DIA. WIDTH LENGTH DIA. CFM THROW S.P.D. COMMENTS LOUVER SCHEDULE CFM LOCATION FUNCTION | WIDTH | HEIGHT | COMMENTS TYPE | NUMBER | MANUFACTURER KRUEGER
 CLEARSTORY
 INTAKE
 24"
 36"
 750
 0.015 in-wg
 241 FPM

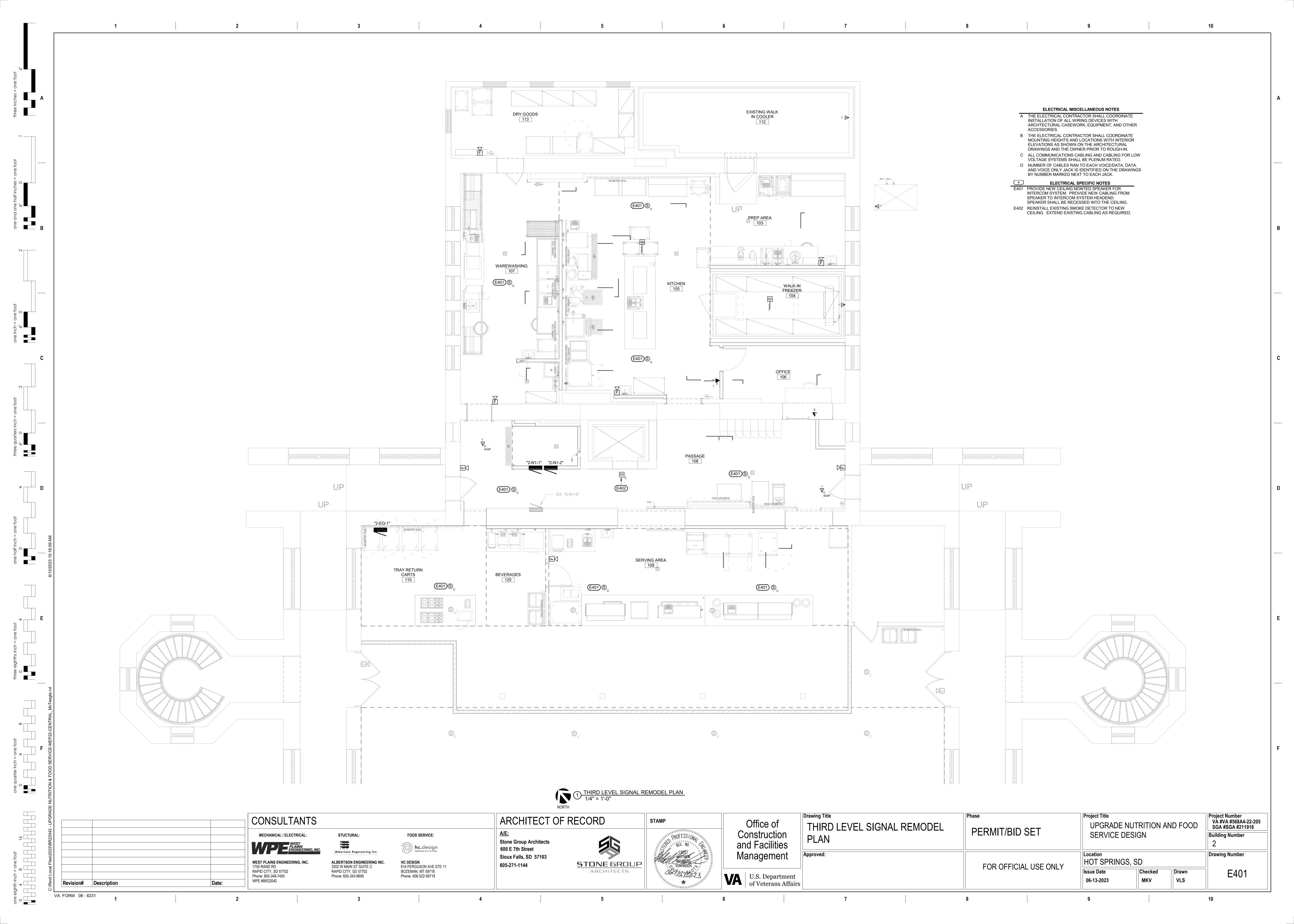
 CLEARSTORY
 INTAKE
 24"
 36"
 1800
 0.050 in-wg
 579 FPM
 ELF6375DX 1,2,3 0.104 in-wg 34 LAY-IN/SURFACE KRUEGER | 10" | 22" | 500 | N/A | 0.020 in-wg | 15 | LAY-IN/SURFACE | 22" | 22" | 1600 | N/A | 0.040 in-wg | 28 | LAY-IN/SURFACE | 10" | 10" | 380 | N/A | 0.071 in-wg | 23 | LAY-IN/SURFACE | ELF6375DX 1,2,3 1,2,3 1,2,3 CLEARSTORY INTAKE
 CLEARSTORY
 INTAKE
 24"
 36"
 1800
 0.050 in-wg
 579 FPM
 1,2,3 14" 14" 790 N/A 0.040 in-wg 26 LAY-IN/SURFACE ELF6375DX
 EAST WINDOW
 EXHAUST
 30"
 72"
 6645
 0.073 in-wg
 774 FPM
 1,2,3
 L
 6
 RUSKIN
 ELF6375DX
 EAST WINDOW
 EXHAUST
 30"
 72"
 6645
 0.073 in-wg
 774 FPM

 L
 7
 RUSKIN
 ELF6375DX
 EAST WINDOW
 EXHAUST
 24"
 24"
 1000
 0.330 in-wg
 529 FPM
 PROVIDE OPPOSED BLADE DAMPER FOR SURFACE MOUNTED APPLICATIONS OR WHERE MANUAL VOLUME DAMPER IS NOT ACCESSIBLE. COMMENTS: THROW BASED ON 50 FPM, HOIZONTAL THROW. 1 PROVIDE WITH BIRD SCREEN. PRESSURE DROP AND NC SCHEDULED BASED ON 0 DEGREE DEFLECTION. PROVIDE 45 DEGREE HORIZONTAL BLADES. ARCHITECT TO SELECT COLOR. ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH. FAN SCHEDULE UNIT
TYPEUNIT
NUMBERMANUFACTURERMODELLOCATIONSERVICEVIBRATION
ISOLATIONCFMS.P.D.HPSONESVOLTAGEPHASESEF1LOREN COOK180QMXPASSAGE 108H-1, H-2EXTERNAL66451.50 in-wg302083EF2LOREN COOK90QMXKITCHEN 105WAREWASHEXTERNAL10001.00 in-wg0.7501201 PROVIDE WITH STANDARD PREWIRED NEMA 3 DISCONNECT AND FAN SPEED CONTROLLER, UL762 RATED. WIRING AND INTERLOCK OF FAN TO ASSOCIATED HOOD BY ELECTRICAL CONTRACTOR. PROVIDE BACKDRAFT DAMPER, WALL FLANGE, AIR BALANCE KIT, PRIME COATED FOR PAINTING. PROVIDE WITH GREASE TERMINATION KIT. REINFORCED WHEEL. PROVIDE INTERLOCK OF FAN, HOOD AND MAKE-UP AIR UNIT THRU REMOTE CONTROL PANEL. POWER WIRING BY ELECTRICAL CONTRACTOR. one eighth inch = one foot 0.04 0Drawing Title Project Number Project Title CONSULTANTS ARCHITECT OF RECORD STAMP VA #VA #568A4-22-205 SGA #SGA #211916 Office of **UPGRADE NUTRITION AND FOOD** MECHANICAL DETAILS, PERMIT/BID SET Construction SERVICE DESIGN **Building Number** MECHANICAL / ELECTRICAL: STUCTURAL: FOOD SERVICE: SCHEDULES & SYMBOLS **Stone Group Architects** and Facilities hc.design 600 E 7th Street Albertson Engineering Inc. Management **Drawing Number** Approved: Location Sioux Falls, SD 57103 HOT SPRINGS, SD WEST PLAINS ENGINEERING, INC. **ALBERTSON ENGINEERING IN** HC DESIGN **STONE** GROUP 605-271-1144 FOR OFFICIAL USE ONLY 3202 W MAIN ST SUITE C 614 FERGUSON AVE STE 11 M502 **Issue Date** RAPID CITY, SD 57702 RAPID CITY, SD 57702 BOZEMAN, MT 59718 **ARCHITECTS** Checked Drawn **VA** U.S. Department of Veterans Affairs Phone: 605-348-7455 Phone: 605-343-9606 Phone: 406-522-59719 06-13-2023 DFR MMM WPE #BR22042 Revision# Description VA FORM 08 - 6231









| | | | FOODSER | VICE EQU | IPMENT E | ELECTRICA | L SCHED | ULE | |
|--------------|---------------|---|------------|---------------|-------------|------------------|--------------|---|--|
| ITEM | | | | | | | | | |
| # | QUANTITY | DESCRIPTION | VOLTAGE | PHASE | AMPS | WATTS | HP | CONNECTION TYPE | COMMENTS |
| 4 | 1 | RECEIVING SCALE | 120 | 1 | 0.1 | 12 | - | PLUG, NEMA 5-15P | |
| 7 | 1 | WALK-IN FREEZER REMOTE CONDENSING UNIT | 120 208 | 1 | 8.0 22.9 | 960 8249.9 | - . | DIRECT REMOTE | LIGHTS, CONTROL AND DOOR HEATER REMOTE PAD LOCATED |
| 8.1 | <u> </u> 1 | WALK-IN COOLER EVAPORATOR | 120 | <u> </u> | 1.8 | 216 | - | DIRECT | REMOTE PAD LOCATED |
| 8.2A | 1 | FREEZER EVAPORATOR | 208 | 1 | 13.7 | 2849.6 | - | DIRECT | - |
| 8.2B | 1 | FREEZER LINE HEAT TAPE | 120 | 1 | 10.0 | 1200.0 | | CORD AND PLUG, NEMA 5-20P | PROVIDE NEMA 5-20R GFCI RECEPTACLE TO HEAT TAPE. |
| 12 | 1 | CONVEYOR TOASTER | 208 | 1 | 21.4 | 4451.2 | - | CORD AND PLUG, NEMA 6-30 | - |
| 15 | 1 | FOOD PROCESSOR, BENCHTOP/COUNTERTOP | 120 | 1 | 7.0 | 840.0 | - | CORD AND PLUG, NEMA 5-15P | - |
| 16 | 1 | PLANETARY MIXER | 120 | 1 | 4.0 | 480.0 | - | CORD AND PLUG, NEMA 5-15P | - |
| 17 19.1 | 1 | DISPOSER HANDS FREE ELECTRONIC FAUCET | 208 120 | 1 1 | 7.7 2.0 | 1601.9 240.0 | - | DIRECT CORD AND PLUG, NEMA 5-15P | PROVIDE NEMA 5-20R GFCI RECEPTACLE FOR ELECTRONIC FAUCET. |
| 25 | 1 | PLANETARY MIXER | 120 | 1 | 8.0 | 960.0 | | CORD AND PLUG, NEMA 5-15P | ELECTRONIC PAUCET. |
| 27 | 1 | FOOD SLICER, ELECTRIC | 120 | 1 | 5.6 | 672.0 | - | CORD AND PLUG, NEMA 5-15P | - |
| 31 | 1 | MIXER, VERTICAL CUTTER VCM | 208 | 3 | 25.0 | 9006.4 | 5 | CORD AND PLUG, NEMA L15-30P | - |
| 39 | 2 | WORK TABLE, S/S TOP, WITH SINK (1 IS A SPARE LINE) | 120 | 1 | 10 | 1200.0 | - | DIRECT | STUB-UP POWER THROUGH FLOOR |
| 41 | 1 | CAN OPENER | 120 | 1 | 3.0 | 360.0 | - | CORD AND PLUG, NEMA 5-15P | UTILIZE RECEPTACLE WITHIN PREWIRED TABLE |
| 43.1 | 1 | HANDS FREE ELECTRONIC FAUCET | 120 | 1 | 2.0 | 240.0 | - | CORD AND PLUG, NEMA 5-15P | PROVIDE NEMA 5-20R GFCI RECEPTACLE FOR ELECTRONIC FAUCET. |
| 44 | 2 | CONVECTION OVEN, ELECTRIC | 208 | 3 | 31.0 | 11167.9 | - | DIRECT | 2 CONNECTIONS, 11 KW PER OVEN. |
| 46 | 2 | INDUCTION RANGE, COUNTERTOP | 208 | 1 | 30.0 | 6240.0 | - | CORD AND PLUG, NEMA 6-50P | - |
| 47 54 | 1 | TILTING SKILLET BRAISING PAN, ELECTRIC CONVECTION STEAMER, STEAM COIL | 208 120 | 3 | 33.0 5.0 | 11888.4 600.0 | - | DIRECT | - NO GFCI |
| 71 | <u> </u> | WATER SOFTENER CONDITIONER | 120 | 1 1 | 2.0 | 240.0 | <u>-</u> | CORD AND PLUG, NEMA 5-15P | NO GFCI |
| 87 | 1 | TRAY DRYER | 120 | <u>.</u> 1 | 4.3 | 516.0 | | CORD AND PLUG, NEMA 5-15 | - |
| 88A | 1 | DISHWASHER, CONVEYOR TYPE, VENTLESS | 208 | 3 | 55.6 | 20390.5 | - | DIRECT | MACHINE AND MOTORS |
| 88B | 1 | DISHWASHER, CONVEYOR TYPE, VENTLESS | 208 | 3 | 83.9 | 30225.5 | - | DIRECT | BOOSTER HEATER |
| 91 | 1 | DISPOSER | 208 | 1 | 7.7 | 1601.6 | 2 | DIRECT | |
| 93.1 | 1 | HANDS FREE ELECTRONIC FAUCET | 120 | 1 | 2.0 | 240.0 | - | CORD AND PLUG, NEMA 5-15P | PROVIDE NEMA 5-20R GFCI RECEPTACLE FOR ELECTRONIC FAUCET. |
| 107 | 1 | BEVERAGE DISPENSER, COLD BREW AND COFFEE | 120 | 1 | 13.2 | 1584.0 | - | CORD AND PLUG, NEMA 5-15P | - |
| 108 109 | 1 | JUICE DISPENSER, ELECTRIC JUICE DISPENSER, ELECTRIC | 120 120 | 1 | 6.0 | 720 720 | - | CORD AND PLUG, NEMA 5-15P CORD AND PLUG, NEMA 5-15P | - |
| 111 | <u></u> | ICE MAKER, CUBE-STYLE | 120 | 1 1 | 8.8 | 1056.0 | <u> </u> | DIRECT | - |
| 112 | 1 | ICE DISPENSER | 120 | 1 | 1.6 | 192.0 | _ | CORD AND PLUG, NEMA 5-15P | |
| 113 | 1 | CONVEYOR TOASTER | 208 | 1 | 21.4 | 4451.2 | - | CORD AND PLUG, NEMA 6-30P | |
| 114 | 1 | UNDERCOUNTER REFRIGERATOR | 120 | 1 | 2.0 | 240.0 | - | CORD AND PLUG, NEMA 5-15P | |
| 115 | 1 | POP-UP TOASTER | 120 | 1 | 15.0 | 1800 | - | CORD AND PLUG, NEMA 5-15P | |
| 117.1 | 1 | HANDS FREE ELECTRONIC FAUCET | 120 | 1 | 2.0 | 240.0 | - | CORD AND PLUG, NEMA 5-15P | PROVIDE NEMA 5-20R GFCI RECEPTACLE FOR ELECTRONIC FAUCET. |
| 118 | 1 | ROLL-THRU REFRIGERATOR | 120 | 1 | 10.1 | 1212.0 | - | CORD AND PLUG, NEMA 5-15P | |
| 118.1 119 | 1 | CONDENSING UNIT ROLL-THRU HEATED CABINET | 208 120 | 1 | 7.9 17.4 | 2088.0 | | DIRECT CORD AND PLUG, NEMA 5-20P | |
| 119 | 1 | MEGA-TOP SANDWICH/SALAD PREPARATION | 120 | 1 1 | 3.5 | 2000.0 | - | CORD AND PLUG, NEMA 5-20P | |
| 122 | 1 | REFRIGERATOR GRIDDLE, ELECTRIC, COUNTERTOP | 208 | 3 | 39.6 | 14266.1 | | CORD AND PLUG, NEMA 15-50P | |
| 123 | 1 | GRIDDLE, ELECTRIC, COUNTERTOP | 208 | 3 | 39.6 | 14266.1 | <u> </u> | CORD AND PLUG, NEMA 15-50P | |
| 124 | 1 | RETHERMALIZER/HOLDING CABINET | 208 | 3 | 31.3 | 11276.0 | - | CORD AND PLUG, NEMA 15-50P | |
| 127 | 1 | ROLL-IN REFRIGERATOR | 120 | 1 | 9.4 | 1128.0 | - | CORD AND PLUG, NEMA 5-15P | |
| 132 | 1 | SERVING COUNTER | 120 | 1 | 10.0 | 1200 | - | DIRECT | STUB-POWER THROUGH FLOOR |
| 134 | 1 | SNEEZE GUARD, STATIONARY | 120 | 1 | 14.2 | 1704.0 | - | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 135 | 1 | SNEEZE GUARD, STATIONARY | 120 | 1 | 0.2 | 24 | - | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 137 | 1 | COLD FOOD WELL UNIT, DROP-IN, REFRIGERATED | 120 | 1 | 3.9 | 468.0 | | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 138 | 1 | COLD FOOD WELL UNIT, DROP-IN, REFRIGERATED | 120 | 1 | 3.9 | 468.0 | | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 139 | 2 | PLATE AND DISH DISPENSER, DROP-IN | 120 | 1 | 2.5 | 300.0 | | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 141 | 1 | HOT FOOR WELL UNIT, DROP-IN, ELECTRIC | 208 | 1 | 16.4 | 3411.2 | | CORD AND PLUG, NEMA L6-30P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 142 | 1 | DISPLAY MERCHANDISER, HEATED, FOR MULTI-PRODUCT | 120 | 1 | 14.7 | 1764.0 | | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 143 | 1 | FROST TOP/COLD SLAB, DROP-IN | 120 | 1 | 3.9 | 468.0 | | CORD AND PLUG, NEMA 5-15P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |
| 144 | 1 | OPEN DISPLAY MERCHANDISER | 208 | 1 | 20.0 | 4160.0 | | CORD AND PLUG, NEMA 6-20P | STUB-UP POWER THROUGH FLOOR, POWER ROUTED THROUGH ITEM 132 |

| | | LIGHTING | 3 FIXTUR | E SCI | HEDULE | _ | | |
|--------------|--------------|--|------------------|-------|-------------|--------|-------------------|--|
| FIXTURE MARK | MANUFACTURER | MODEL | MOUNTING | TYPE | INPUT WATTS | LUMENS | LUMEN PER WATT | COMMENTS |
| A72 | LITHONIA | 2BLT4-72L-ADP-EZ1-LP840 | CEILING/RECESSED | LED | 58.74 | 7360 | 125.30 | 2X4 RECESSED LED VOLUMETRIC, NOTE 1 |
| K70 | LITHONIA | 2WRTL-G-L48-7000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-FPA-WH | CEILING/RECESSED | LED | 58.5 | 7067 | 120.80 | 2X4 RECESSED LED TROFFER, NSF SPLASH, NOTE 1 |
| K150 | LITHONIA | 2WRTL-G-L48-15000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-FPA-WH | CEILING/RECESSED | LED | 121.1 | 14401 | 118.92 | 2X4 RECESSED LED TROFFER, NSF SPLASH, NOTE 1 |
| K180 | LITHONIA | 2WRTL-G-L48-18000LM-OAW-AFL-MVOLT-EZ1-40K-80CRI-FPA-WH | CEILING/RECESSED | LED | 148.8 | 17421 | 117.08 | 2X4 RECESSED LED TROFFER, NSF SPLASH, NOTE 1 |
| V | LITHONIA | LHOMLED B | LININ | LED | 1.2 | | 4.2 | EVIT SION |

COMMENTS:

1 FIXTURES SUBMITTED FOR APPROVAL CANNOT BE MORE THAN 5% LESS EFFICIENT THAN THE FIXTURE SPECIFIED.

| | | | | | | STA | ARTE | R DI | SCON | NECT SC | CHEDU | JLE | | |
|------|--------|----|---------|------|---------|--------|---------|-----------------|----------------------|-----------------------|-----------|-------------------|------------|---------------------------------------|
| UNIT | UNIT | | МОТО | R | | | STARTER | STARTER NEMA | STARTER ENCLOSURE | STARTER KEY | | DISCONNECT SWITCH | DISCONNECT | |
| TYPE | NUMBER | KW | HP | MCA | VOLTAGE | PHASES | TYPE | SIZE | TYPE | FEATURES | CONTROL | SIZE | FUSE SIZE | COMMENTS |
| ACU | 1 | | | 40 A | 208 V | 3 | - | - | - | - | TC SYSTEM | 60A/3P/F/NEMA 3R | PER NEC | COMMENT 1 |
| AHU | 1 | | 3 hp | | 208 V | 3 | VFD | 1 | ı | - | TC SYSTEM | 30A/3P/F/NEMA 1 | PER NEC | COMMENT 2 |
| EF | 1 | | 3 hp | | 208 V | 3 | FVNR | NEMA 1 | NEMA 1 | PER SPECIFICATIONS | TC SYSTEM | 60A/3P | PER NEC | COMBINATION STARTER DISCONNECT SWITCH |
| EF | 2 | | 0.75 hp | | 120 V | 1 | FVNR | NEMA 1 | NEMA 1 | PER SPECIFICATIONS | TC SYSTEM | 30A/3P | PER NEC | COMBINATION STARTER DISCONNECT SWITCH |
| MAU | 1 | | 7.5 hp | 0 A | 208 V | 3 | VFD | - | • | - | TC SYSTEM | 60A/3P/F/NEMA 1 | PER NEC | COMMENT 2 |
| MCU | 1 | | | 78 A | 208 V | 3 | - | - | - | - | TC SYSTEM | 100A/3P/F/NEMA 3R | PER NEC | COMMENT 1 |

COMMENT

1 FUSE PER MANUFACTUER'S RECOMMENDATIONS.
2 E.C. TO PROVIDE DISCONNECT SWITCH. A VFD IS ALSO FURNISHED WITH THE EQUIPMENT BY THE EQUIPMENT SUPPLIER. THE E.C. WILL INSTALL AND WIRE THE VFD.

| | | VOLT | S: | 120/208 \ | Nye | F | PHASES: | 3 | | | | V | WIRE: | 4 | MAIN CAPACITY: 400 A | 4 |
|----|------------------------------|--------------|--------------|-----------|-------|------|----------|------|-------|--------|---------|----------|-------|--------------|-----------------------------------|-----|
| | 2-N1-1 | AIC RATING | G: | 22,00 | 0 | LO | CATION: | | | F | PASSAGE | E 108 | | | MAIN CONNECTION: 400A M | ICB |
| | | MOUNTING | G: | RECESS | SED | FEED | ER SIZE: | | SE | E POWE | R ONE- | LINE DIA | GRAM | | ENCLOSURE TYPE: TYPE | 1 |
| кт | ITEM FED | | WIRE SIZE | AMPS | POLES | A (W | ATTS) | B (W | ATTS) | C (W | ATTS) | POLES | AMPS | WIRE SIZE | ITEM FED | C |
| 1 | WARE WASH. (ITEM | 37)(NOTE 1) | 12 | 20 A | 1 | 516 | 1200 | | | | | 1 | 20 A | 12 | KITCHEN 105 (ITEMS 39 & 41) | |
| 3 | | | | | | | | 6797 | 1200 | | | 1 | 20 A | 12 | KITCHEN 105 (ITEMS 39) | |
| 5 | WARE WASHING 107 (NOTE 2) | | 4 | 70 A | 3 | | | | | 6797 | 3002 | | | | | T |
| 7 | (140122) | | | | | 6797 | 3002 | | | | | 3 | 30 A | 10 | KITCHEN 105 (31) (NOTE 1) | |
| 9 | WARE WASHING 10 | 7 (ITEM 91) | 12 | 15 1 | 2 | | | 801 | 3002 | | | | | | | |
| 11 | (NOTE 2) | , | 12 | 15 A | 2 | | | | | 801 | 2226 | 2 | 20.4 | 10 | IZITOLIENI 405 (ITEM 40) (NOTE 4) | |
| 13 | RM.107(ITEM 93.1) | (NOTE 1) | 12 | 20 A | 1 | 240 | 2226 | | | | | 2 | 30 A | 10 | KITCHEN 105 (ITEM 12) (NOTE 1) | |
| 15 | RM. 107 (ITEM 71) | (NOTE 1) | 12 | 20 A | 1 | | | 240 | 672 | | | 1 | 20 A | 12 | PREP AREA 103 (ITEM 27) (NOTE 1) |) |
| 17 | KITCHEN 105 (H1A &H | 1B) (NOTE 2) | 12 | 20 A | 1 | | | | | 1000 | 960 | 1 | 20 A | 12 | PREP AREA 103 (ITEM 25) (NOTE 1) |) |
| 19 | KITCHEN 105 (ITEM 5 | 4) (NOTE 3) | 12 | 20 A | 1 | 600 | 720 | | | | | 1 | 20 A | 12 | PREP AREA 103 CONV. REC'S. | |
| 1 | IZITOLIENI 405 /ITEM 4 | 0) (NOTE 0) | 0 | 40.4 | 0 | | | 3120 | 240 | | | 1 | 20 A | 12 | PREP AREA 103 (ITEM 19.1) | |
| 23 | KITCHEN 105 (ITEM 4 | 6) (NOTE 3) | 8 | 40 A | 2 | | | | | 3120 | 801 | | 45.4 | 40 | DDED ADEA 400 (ITEM 47) (NOTE 0) | |
| 25 | 14/TOUEN 405 (ITEM 4 | a) (110TE a) | | 40.4 | | 3120 | 801 | | | | | 2 | 15 A | 12 | PREP AREA 103 (ITEM 17) (NOTE 2) |) |
| 27 | KITCHEN 105 (ITEM 4 | 6) (NOTE 3) | 8 | 40 A | 2 | | | 3120 | 480 | | | 1 | 20 A | 12 | PREP AREA 103 (ITEM 16) (NOTE 1) |) |
| 29 | | | | | | | | | | 3963 | 840 | 1 | 20 A | 12 | PREP AREA 103 (ITEM 15) (NOTE 1) |) |
| 31 | KITCHEN 105 (ITEM 4 | 7) (NOTE 3) | 8 | 40 A | 3 | 3963 | 720 | | | | | 1 | 20 A | 12 | KITCHEN OFFICE REC'S. | |
| 33 | , | , , | | | İ | | | 3963 | 720 | | | 1 | 20 A | 12 | KITCHEN 105 CONV. REC'S. | 1 |
| 35 | KITCHEN 105 CON | IV. REC. | 12 | 20 A | 1 | | | | | 180 | 10075 | | | | | 1 |
| 37 | KITCHEN 105 (ITE | | 12 | 20 A | 1 | 240 | 10075 | | | | | 3 | 90 A | 3 | WAREWASHING 107 (ITEM 88B) | ł |
| 39 | | - , | | | | | | 3723 | 10075 | | | | | | (NOTE 2) | ŀ |
| 11 | KITCHEN 105 (ITEM 4 | 4) (NOTE 3) | 8 | 40 A | 3 | | | | | 3723 | | 1 | | _ | SPACE | 1 |
| 13 | , | , , | | | İ | 3723 | | | | | | 1 | | _ | SPACE | 1 |
| 15 | | | | | | | | 3723 | | | | 1 | | _ | SPACE | † |
| 17 | KITCHEN 105 (ITEM 4 | 4) (NOTE 3) | 8 | 40 A | 3 | | | | | 3723 | | 1 | | _ | SPACE | 1 |
| 19 | , | , , | | | | 3723 | | | | | | 1 | | - | SPACE | 1 |
| 51 | DRY GOOD 113 | REC'S. | 12 | 20 A | 1 | | | 720 | | | | 1 | | - | SPACE | 1 |
| 53 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | Ť |
| | | TOTA | L CON | NECTED | LOAD: | 4166 | 64 W | 4259 | 95 W | 4120 | 09 W | AMPS: | 348 A | LOAD: | 125468.6 W | T |

| | | VOLTS | S: | 120/208 | Wye | F | PHASES: | 3 | | | | - | WIRE: | 4 | MAIN CAPACITY: 400 | Α |
|-----|--------------------|---------------|--------------|---------|-------|-------|----------|------|-------|--------|--------|----------|-------|--------------|---|-------------|
| | 2-N1-2 | AIC RATING | 3 : | 22,00 | 0 | LO | CATION: | | ' | F | ASSAGI | E 108 | ' | | MAIN CONNECTION: 400A M | 1 СВ |
| | | MOUNTING | G: | RECES | SED | FEEDI | ER SIZE: | | SE | E POWE | R ONE- | LINE DIA | GRAM | | ENCLOSURE TYPE: TYPE | 1 |
| CKT | ITEM FE | D | WIRE SIZE | AMPS | POLES | A (WA | ATTS) | B (W | ATTS) | C (W | ATTS) | POLES | AMPS | WIRE SIZE | ITEM FED | СКТ |
| 1 | PASSAGE 108 CC | NV. REC'S. | 12 | 20 A | 1 | 900 | 1128 | | | | | 1 | 20 A | 12 | SERV. 109 (ITEM 127) (NOTE 1) | 2 |
| 3 | PASSAGE 108 (ITEM | 107) (NOTE 1) | 12 | 20 A | 1 | | | 1584 | 500 | | | 1 | 20 A | 12 | SERVING 109 (H-2) (NOTE 2) | 4 |
| 5 | PASSAGE 108 (ITEM | 108) (NOTE 1) | 12 | 20 A | 1 | | | | | 720 | 3759 | | | | 055) (INIO ABEA 400 (ITEM 404) | 6 |
| 7 | PASSAGE 108 (ITEM | 109) (NOTE 1) | 12 | 20 A | 1 | 720 | 3759 | | | | | 3 | 40 A | 8 | SERVING AREA 109 (ITEM 124) (NOTE 3) | 8 |
| 9 | PASSAGE 108 (ITEM | 111) (NOTE 2) | 12 | 20 A | 1 | | | 1056 | 3759 | | | | | | (140123) | 10 |
| 11 | PASSAGE 108 (ITEM | 112) (NOTE 1) | 12 | 20 A | 1 | | | | | 192 | 4755 | | | | OFF) (INIO APEA 400 (ITEM 400) | 12 |
| 13 | PASSAGE 108 (ITEM | 113) (NOTE 1) | 10 | 30 A | 2 | 2226 | 4755 | | | | | 3 | 50 A | 6 | SERVING AREA 109 (ITEM 123) (NOTE 3) | 14 |
| 15 | PASSAGE 100 (ITEM | 113) (NOTE 1) | 10 | 30 A | | | | 2226 | 4755 | | | | | | () | 16 |
| 17 | PASSAGE 108 (ITEM | 114) (NOTE 1) | 12 | 20 A | 1 | | | | | 240 | 4755 | | | | | 18 |
| 19 | PASSAGE 108 (ITEM | 115) (NOTE 1) | 12 | 20 A | 1 | 1800 | 4755 | | | | | 3 | 50 A | 6 | SERVING AREA 109 (ITEM 122) (NOTE 3) | 20 |
| 21 | PASSAGE 108 (ITEM | 117) (NOTE 1) | 12 | 20 A | 1 | | | 240 | 4755 | | | 1 | | | (140120) | 22 |
| 23 | PASSAGE 108 C | ONV. REC. | 12 | 20 A | 1 | | | | | 180 | 420 | 1 | 20 A | 12 | SERV. 109 (ITEM 121) (NOTE 1) | 24 |
| 25 | OED //NO 400 //TEN | 444) (NOTE 4) | 40 | 00.4 | | 2080 | 1212 | | | | | 1 | 20 A | 12 | SERV. 109 (ITEM 118) (NOTE 1) | 26 |
| 27 | SERVING 109 (ITEM | 144) (NOTE 1) | 12 | 20 A | 2 | | | 2080 | 2088 | | | 1 | 20 A | 12 | SERV. 109 (ITEM 119) (NOTE 1) | 28 |
| 29 | SERV. 109 (ITEM 1 | 43) (NOTE 1) | 12 | 20 A | 1 | | | | | 468 | 0 | | 45.0 | 40 | SERVING AREA 109 (ITEM 118.1) | 30 |
| 31 | SERV. 109 (ITEM 1 | 42) (NOTE 1) | 12 | 20 A | 1 | 1764 | 0 | | | | | 2 | 15 A | 12 | (NOTE 2) | 32 |
| 33 | SERVING AREA 10 | 9 (ITEM 141) | 40 | 00.4 | | | | 1706 | 180 | | | 1 | 20 A | 12 | SERV. 109 (ITEM 4) (NOTE 1) | 34 |
| 35 | (NOTE | | 10 | 30 A | 2 | | | | | 1706 | 900 | 1 | 20 A | 12 | SERVING 109 CONV. REC'S. | 36 |
| 37 | SERV. 109 (ITEM 1 | 39) (NOTE 1) | 12 | 20 A | 1 | 300 | 2101 | | | | | | | | | 38 |
| 39 | SERV. 109 (ITEM 1 | 38) (NOTE 1) | 12 | 20 A | 1 | | | 468 | 2101 | | | 3 | 35 A | 8 | EF-1 | 40 |
| 41 | SERV. 109 (ITEM 1 | 37) (NOTE 1) | 12 | 20 A | 1 | | | | | 468 | 2101 | 1 | | | | 42 |
| 43 | | | | | | 0 | 1656 | | | | | 1 | 25 A | 10 | EF-2 | 44 |
| 45 | SPARE | | - | 15 A | 3 | | | 0 | 0 | | | 1 | 20 A | - | SPARE | 46 |
| 47 | 1 | | | | | | | | | 0 | 0 | 1 | 20 A | - | SPARE | 48 |
| 49 | SERV. AREA (ITEM | 134)(NOTE1) | 12 | 20 A | 1 | 1704 | 0 | | | | | | | | | 50 |
| 51 | SERV. 109(ITEMS12 | 3,135)(NOTE1) | 12 | 20 A | 1 | | | 1380 | 0 | | | 3 | 15 A | - | SPARE | 52 |
| 53 | SPARE | | - | 20 A | 1 | | | | | 0 | 0 | | | | | 54 |
| | | TOTA | L CON | NECTED | LOAD: | 3086 | 51 W | 2887 | 78 W | 206 | 54 W | AMPS: | 223 A | LOAD: | 80403.6 W | |

| | | VOLTS | i: | 120/208 | Wye | F | PHASES: | 3 | | | | \ | MIRE: | 4 | MAIN CAPACITY: | 100 A |
|-----|--------------------------------|---------------|--------------|--------------------|-------|---------------------------|---------|-------|-----------|------|-----------|-------|-------|------------------|----------------|-------|
| | 2-EQ-1 | AIC RATING |): | 22,000 RECESSED | | LOCATION: FEEDER SIZE: | | | | | | | | MAIN CONNECTION: | MLO TYPE 1 | |
| | | MOUNTING | i: | | | | | | | | | | | ENCLOSURE TYPE: | | |
| СКТ | ITEM FED | | WIRE SIZE | AMPS | POLES | A (WA | ATTS) | B (WA | B (WATTS) | | C (WATTS) | | AMPS | WIRE SIZE | ITEM FED | CI |
| 1 | | | | | | 2750 | | | | | | 1 | | - | SPACE | 2 |
| 3 | REMOTE CONDENSER UNIT (ITEM 8) | | 10 | 30 A | 3 | | | 2750 | | | | 1 | | - | SPACE | 4 |
| 5 | | | | | | | | | | 2750 | | 1 | | - | SPACE | 6 |
| 7 | COOL. EVAP112(ITEM | 8.1) (NOTE 1) | 12 | 15 A | 1 | 216 | | | | | | 1 | | - | SPACE | 8 |
| 9 | KITCHEN 105 (ITEM | 7) (NOTE 1) | 12 | 20 A | 1 | | | 960 | | | | 1 | | - | SPACE | 1 |
| 11 | KITCHEN 105 (8.2A) (NOTE 1) | | 12 | 2 20 A | 2 | | | | | 1425 | | 1 | | - | SPACE | 1 |
| 13 | | | 12 | 20 A | | 1425 | | | | | | 1 | | - | SPACE | 1 |
| 15 | KITCHEN 105 | (8.2B) | 12 | 20 A | 1 | | | 1200 | | | | 1 | | - | SPACE | 1 |
| 17 | | | | 50 A | | | | | | 4323 | | 1 | | - | SPACE | 1 |
| 19 | ACU-1 | | 6 | | 3 | 4323 | | | | | | 1 | | - | SPACE | 2 |
| 21 | | | | | | | | 4323 | | | | 1 | | - | SPACE | 2 |
| 23 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 2 |
| 25 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 2 |
| 27 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 2 |
| 29 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 3 |
| 31 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 3 |
| 33 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 3 |
| 35 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 3 |
| 37 | SPACE | | - | | 1 | | | | | | | 1 | | - | SPACE | 3 |
| 39 | SPACE | | _ | | 1 | | | | | | | 1 | | _ | SPACE | 4 |
| 41 | SPACE | | _ | | 1 | | | | | | | 1 | | _ | SPACE | 4 |
| | | | | | _ | 8714 | 4 W | 923 | 3 W | 849 | 98 W | AMPS: | 73 A | - | 26444.7 W | |

1. PROVIDE GFCI TYPE CIRUIT BREAKER.
2. PROVIDE LOCKABLE CIRCUIT BREAKER.
3. PROVIDE SHUT-TRIP CIRCUIT BREAKER.

one eighth inch = one foot

0 4 8 16

VA FORM 08 - 6231

MECHANICAL / ELECTRICAL:

WEST PLAINS ENGINEERING, INC.

1750 RAND RD
RAPID CITY, SD 57702
Phone: 605-348-7455
WPE #BR22042

STUCTURAL:

Albertson Engineering Inc.

ALBERTSON ENGINEERING INC.
3202 W MAIN ST SUITE C
RAPID CITY, SD 57702
Phone: 605-343-9606

FOOD SERVICE:

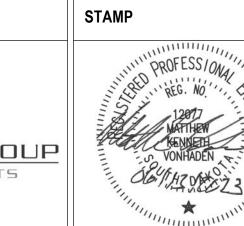
hc.design
Foundamentoe, bretter by thesign.

HC DESIGN
614 FERGUSON AVE STE 11
BOZEMAN, MT 59718
Phone: 406-522-59719

ARCHITECT OF RECORD

A/E:
Stone Group Architects
600 E 7th Street
Sioux Falls, SD 57103
605-271-1144

STONE GROUP
ARCHITECTS



Office of
Construction
and Facilities
Management

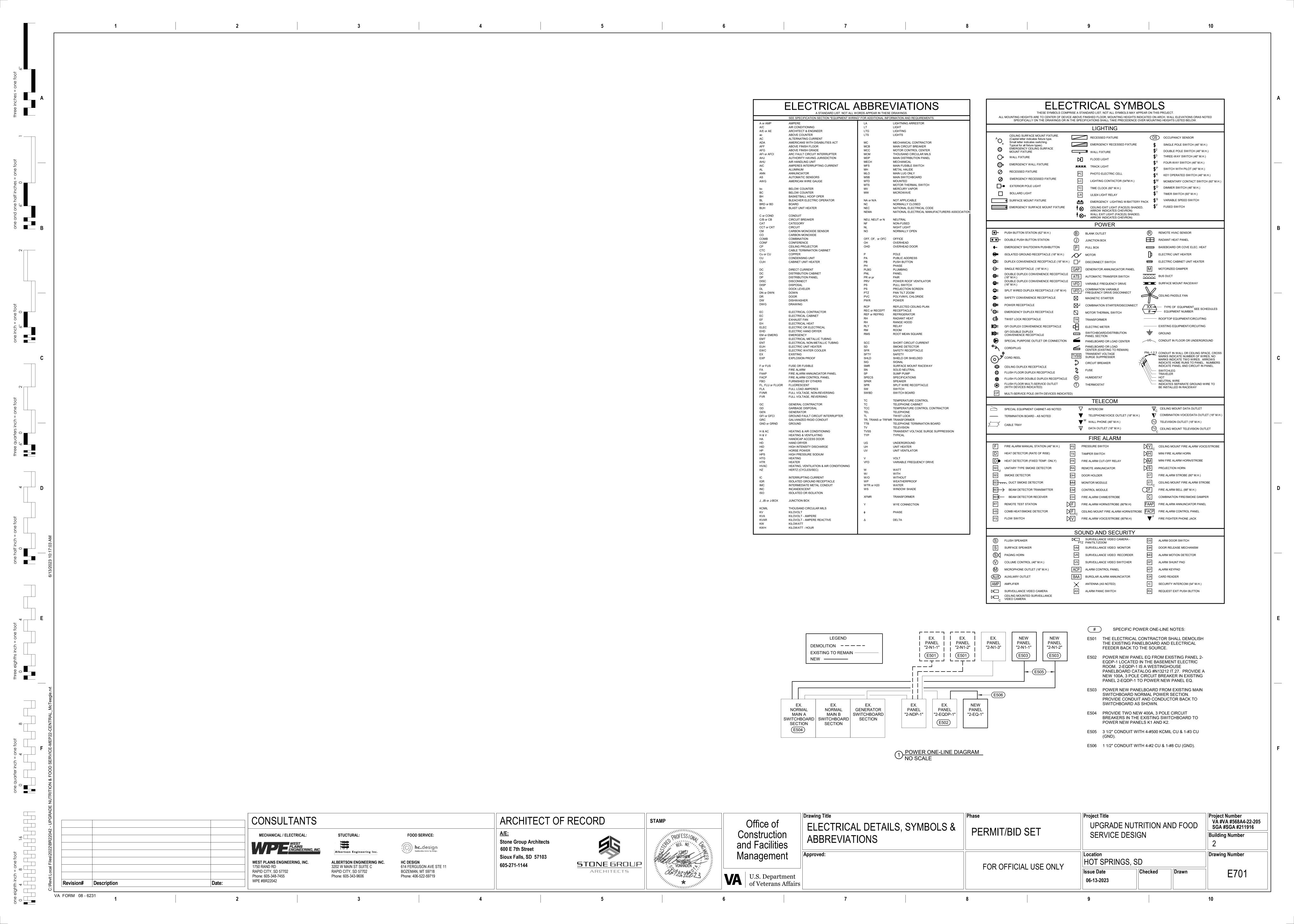
U.S. Department
of Veterans Affairs

| | Drawing Title ELECTRICAL SCHEDULES & DETAILS | Phase PERMIT/BID SET | Project Title UPGRADE NUT SERVICE DESI | _ | D FOOD | Project Number VA #VA #568A4-22-205 SGA #SGA #211916 Building Number 2 |
|----|--|-----------------------|--|----------------|--------------|---|
| ·s | Approved: | FOR OFFICIAL USE ONLY | Location HOT SPRINGS, S Issue Date 06-13-2023 | Checked MKV | Drawn VLS | Drawing Number E501 |

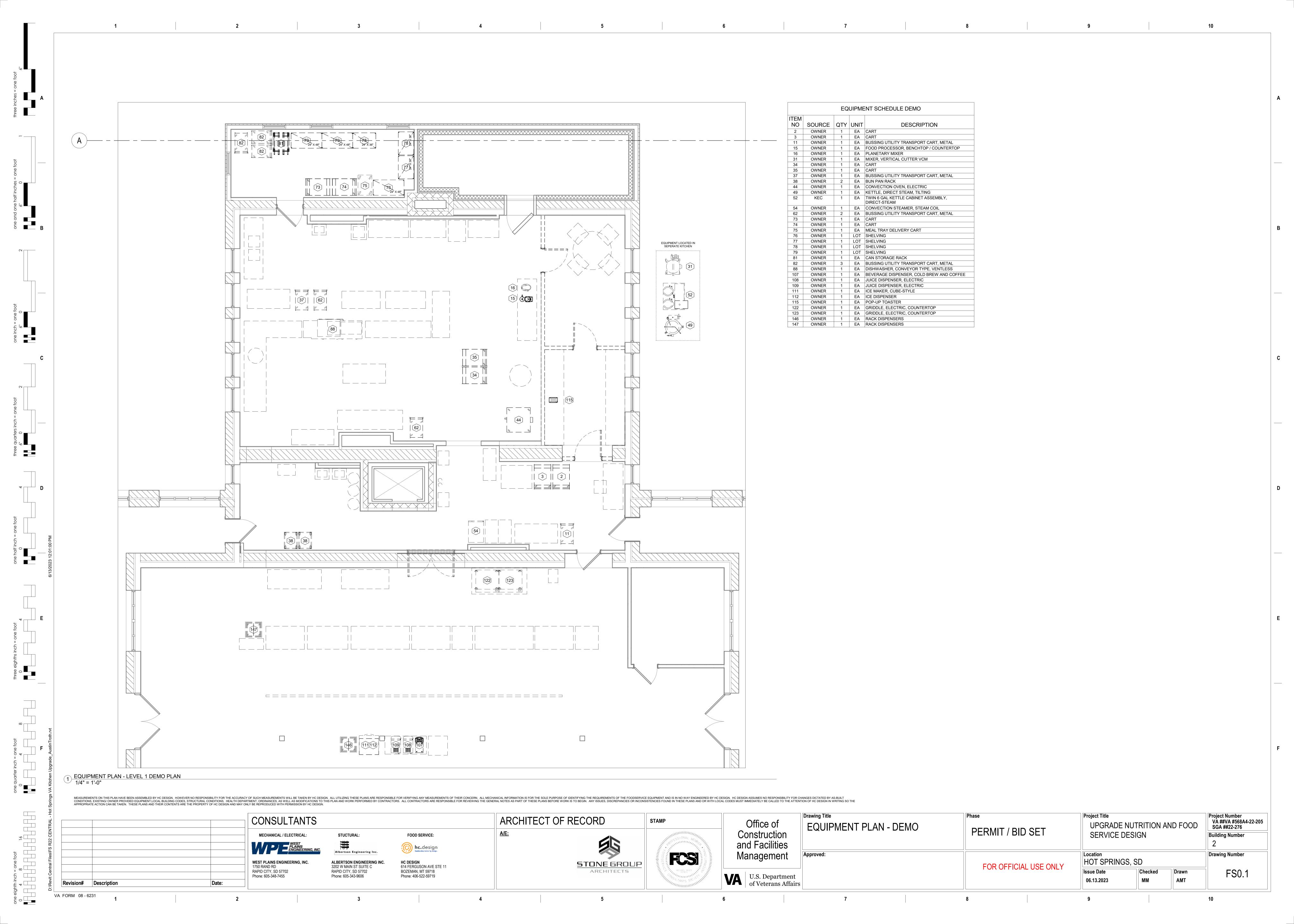
DIVISION 27 SPECIFICATIONS Conduit. Boxes and Wire: Provide Carehawk model #CH-8C5PAX/TBLUB speaker/transformer with Lowell model #P68XA backbox and #SS24 support bars. 1. Conduit shall be in accordance with Section 26 05 33 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. All new conduits shall be installed in accordance with NFPA 70. Conduit fill shall SECTION 270010 GENERAL PROVISIONS not exceed 40 percent of interior cross sectional area. All new conduits shall be 3/4 inch (19 mm) minimum. Provide Lowell model #JG-8X baffle. 1. This section shall apply to Divisions 27 and 28. 2. All wiring for the Fire Alarm System shall be installed in conduit. Wiring shall be in accordance with NEC article 760 and as recommended by the manufacturer of the fire alarm system. All wires shall be color coded. Number and size of conductors shall be as recommended by the fire alarm system manufacturer, but not less than 18 AWG for initiating device circuits and 14 AWG for 1. Provide West Penn model # 25293B-GY1000 cable 2. Contractor shall provide shop drawing submittals as outlined in Division 01 for all materials and equipment specified within the following Division 27 and 28 specifications and/or specifically noted items notification device circuits. called out on Signal Plan Sheets. SECTION 283100 FIRE DETECTION AND ALARM SYSTEM – VOICE EVACUATION 3. Terminal Boxes, Junction Boxes, and Cabinets shall be galvanized steel in accordance with UL requirements. All boxes shall be sized and installed in accordance with NFPA 70. Covers shall be 3. Contractor shall include these shop drawings, testing information and warranty information as part of O&M Manuals at completion of project as outlined in Division 01. repainted red in accordance with Section 09 91 00, PAINTING and shall be identified with white markings as "FA" for junction boxes and as "FIRE ALARM SYSTEM" for cabinets and terminal boxes. Lettering shall be a minimum of 3/4 inch (19 mm) high. Terminal boxes and cabinets shall have a volume 50 percent greater than required by the NFPA 70. Minimum sized wire shall be considered 1. Submit floor plan layout using AutoCAD 2019 or newer and include all contractor's information. Layering shall be by VA criteria as provided by the Contracting Officer's 4. Contractor shall also provide As-Built drawings of these systems at completion of project as outlined in Division 01. as 14 AWG for calculation purposes. Terminal boxes and cabinets shall have identified pressure type terminal strips and shall be located at the base of each riser. Terminal strips shall be labeled as Representative (COR). Bid drawing files in AutoCAD format will be provided to the Contractor upon request. The contractor shall be responsible for verifying all critical dimensions specified or as approved by the COR. shown on the drawings provided by VA showing all Fire Alarm devices and equipment to include cabling interconnection. SECTION 271500 COMMUNICATIONS STRUCTURED CABLING Standby Power Supply: 2. Floor plans: Provide locations of all devices (with device number at each addressable device corresponding to control unit programming), appliances, panels, equipment, 1. Contractor shall perform power calculations to determine the number of power supplies needed to support the revised Second Floor Fire Alarm System. Contractor to also provide appropriate power to these panels from Life Safety Panel 2CLS. Contractor shall supply the correct number of power supplies and then calculate power needed for the battery backup system. The Contractor junction/terminal cabinets/boxes, risers, electrical power connections, individual circuits and raceway routing, system zoning; number, size, and type of raceways and conductors in 1. Submit communication closet layout per communication standards and per provided layout. each raceway; conduit fill calculations with cross section area percent fill for each type and size of conductor and raceway. Only those devices connected and incorporated into the shall provide the revised battery backup system to meet the revised load. The calculations for these systems shall be included as part of the shop drawing submittal. The battery system shall have final system shall be on these floor plans. Do not show any removed devices on the floor plans. Show all interfaces for all fire safety functions. sufficient capacity to power the fire alarm system for not less than 24 hours plus 5 minutes of alarm to an end voltage of 1.14 volts per cell, upon a normal AC power failure. If required the battery charge shall also be upgraded to meet the new load requirements. a. NOTE: All components shall be as specified or be 100% compatible (ie. completely interchangeable, etc.). 3. Detailed wiring diagrams: Provide for control panels, modules, power supplies, electrical power connections, auxiliary relays and annunciators showing termination identifications, b. Materials list of items proposed to be provided under this section. size and type conductors, circuit boards, LED lamps, indicators, adjustable controls, switches, ribbon connectors, wiring harnesses, terminal strips and connectors, spare Alarm Notification Appliances: c. Manufacturer's specifications and other data needed to provide compliance with the specified requirements. zones/circuits. Diagrams shall be drawn to a scale sufficient to show spatial relationships between components, enclosures and equipment configuration. 1. Speakers, speaker strobes and strobes shall all match the existing equipment. While speakers, speaker strobes and strobes are shown diagrammatically on the plans, the contractor will be responsible for meeting sound pressure requirements and visual requirements as required by NFPA 72. Audio amplifiers shall be provided as needed to ensure sound pressure levels are met. 3. Submit information on the labeling scheme that will be used. MUST be coordinated with the owner. 4. Provide power supply and battery calculations as noted within this specification. Alarm Initiating Devices: 4. Project Record Documents: Record actual locations and sizes of pathways and outlets. 5. Two weeks prior to final inspection, the Contractor shall deliver to the COR 3 sets of as-built drawings and one set of the as-built drawing computer files (using AutoCAD 2019 or 1. Manual Pull Stations; Smoke Detectors; Duct Smoke Detectors; Heat Detectors; Water Flow and Pressure Switches; and Address Reporting Interface Devices shall all match existing equipment. newer). As built drawings (floor plans) shall show all new and/or existing conduit used for the fire alarm system. While smoke detectors and heat detectors are shown on the plans, the contractor will be responsible for providing shop drawings and layouts that meet NFPA 72 requirements. 1. Work shall be installed in accordance with the manufacturer's recommendations of the equipment to be supplied and installed under this contract. Installations and materials shall be in accordance with Product data: 2. All new Duct Smoke Detectors shall be supplied with an approved duct housing mounted exterior to the duct and shall have perforated sampling tubes extending across the full width of the duct latest edition of the Uniform Building Code (UBC), National Electrical Code (NEC), and Building Industry Consulting Service International (BICSI). a. NOTE: All components shall be as specified or be 100% compatible (ie. completely interchangeable, etc.). (wall to wall). Detector placement shall be such that there is uniform airflow in the cross section of the duct. Duct Smoke Detectors shall be supplied with Monitoring/Test Stations. Monitoring/Test Stations shall be installed in an accessible area and labeled as to the system served (e.g. "DUCT SMOKE DETECTOR AHU-X"). b. Materials list of items proposed to be provided under this section. 2. Installer Qualifications: Company specializing in installing similar systems, with minimum five years documented experience. c. Manufacturer's specifications and other data needed to provide compliance with the specified requirements. Electromagnetic Door Holders: 7. Project Record Documents: Record actual locations of devices and equipment along with all cabling interconnections. 1. New Door Holders shall be standard wall mounted electromagnetic type. In locations where doors do not come in contact with the wall when in the full open position, an extension post shall be 1. All cabling and terminations shall be by a telecommunications contractor. This contractor shall be a certified installer with at least 5 years of verifiable experience. References may be requested. added to the door bracket 8. Submit simultaneously with the shop drawings, companion copies of complete maintenance and operating manuals including technical data sheets for all items used in the system, power requirements, device wiring diagrams, dimensions, and information for ordering replacement parts. Wiring diagrams shall have their terminals identified to facilitate installation, 2. Installer: Personnel installing and terminating the Cabling system shall be trained for voice and data installations and testing work. All installers/testers shall provide proof of training. Training must be 2. Operation shall be by 24 volt DC supplied from a battery located at the fire alarm control unit. Door holders shall be coordinated as to voltage, ampere drain, and voltage drop with the battery, from a nationally recognized organization and must be able maintain system warranties of materials being installed. Proof of training shall be submitted as part of the submittal process prior to start of work. operation, expansion and maintenance. Wiring diagrams shall indicate internal wiring for each item of equipment and the interconnections between the items of equipment. Include battery charger, wiring and fire alarm system for operation as specified. complete listing of all software used and installation and operation instructions including the input/output matrix chart. Provide a clear and concise description of operation that gives, in detail, the information required to properly operate, inspect, test and maintain the equipment and system. Provide all manufacturer's installation limitations including but not limited to 3. A maximum of twelve door holders shall be provided for each circuit. Door holders shall be wired to allow releasing doors by smoke zone. 1. Work subject to terms of Article "Warranty of Construction," FAR clause 52.246-21. circuit length limitations. Include information indicating who will provide emergency service and perform post contract maintenance. Provide a replacement parts list with current prices. Include a list of recommended spare parts, tools, and instruments for testing and maintenance purposes. A computerized preventive maintenance schedule for all equipment. 4. Door holder control circuits shall be electrically supervised. The schedule shall be provided on disk in a computer format acceptable to the VAMC and shall describe the protocol for preventive maintenance of all equipment. The schedule shall 1. Provide conduits, cable trays, backboards, racks, patch panels, termination blocks, cables, and outlets to form a raceway and wiring system for voice, data, and wireless access points (WAP's). include the required times for systematic examination, adjustment and cleaning of all equipment. A printout of the schedule shall also be provided in the manual. Provide the disk in a 5. Smoke detectors shall not be incorporated as an integral part of door holders. pocket within the manual. Furnish manuals in 3 ring loose-leaf binder or manufacturer's standard binder. A printout for all devices proposed on each signaling line circuit with spare 2. Structured cabling work shall be installed in accordance with the latest BICSI Telecommunication Distribution Methods Manual. This manual shall be on site for reference at all times telecommunication 1. Installation shall be in accordance with NFPA 70, 72, 90A, and 101 as shown on the drawings, and as recommended by the major equipment manufacturer. Fire alarm wiring shall be installed in work is in progress. All cable shall be color coded per BICSI Standards. Confirm CAT 6A termination EIA/TIA 568A or EIA/TIA 568B method with Owner prior to commencing any terminations. 9. Two weeks prior to final inspection, deliver 4 copies of the final updated maintenance and operating manual to the COR. conduit and all penetrations of smoke and fire barriers shall be protected as required by Section 07 84 00, FIRESTOPPING. 5. Total station wire length to each workstation area shall be a maximum of 90 meters (295 feet) and a minimum of 20 meters (60 feet). Provide 20 foot loop for each cable within IT closet. 2. All conduits, junction boxes, conduit supports and hangers shall be concealed in finished areas and may be exposed in unfinished areas. 6. Combination Voice/Data Outlets shall consist of 4-11/16 inch by 4-11/16 inch by 2-1/8 inch deep J-box (42 cubic inches) with single gang mud ring and minimum of a 1 inch conduit. Conduit size shall be 1. Work shall be installed in accordance with the manufacturer's recommendations of the equipment to be supplied and installed under this contract. Installations and materials shall be in accordance with latest edition of the Uniform Building Code (UBC), NFPA 70 National Electrical Code (NEC), NFPA 72 National Fire Alarm and Signaling Code, NFPA 101 Life 3. All new conduit within finished spaces shall be concealed. If the Contractor feels that this is not possible in a space for some reason a request must be provided to install as exposed. If exposed increased as required based on need to meet conduit fill or multiple conduits provided to meet conduit fill requirements based on the number of cables ran to each outlet location. Each outlet shall include the number of RJ-45/8 wire modular jacks rated CAT 6A indicated or a minimum of two (2) where not noted. Each jack shall be fed by its own CAT 6A 4 pair cable. One of these jacks will be voice and the Safety Code and Building Industry Consulting Service International (BICSI). conduits are approved they shall be painted in accordance with Section 09 91 00, PAINTING to match surrounding finished areas and red in unfinished areas. others will be data unless otherwise noted. All conduits and cables will be terminated at patch panels in existing data/tele closet located in the basement of Building 2. 2. The installing company shall employ NICET (minimum Level II Fire Alarm Technology) technicians on site to guide the final check-out and to ensure the systems integrity. The 4. All existing accessible fire alarm conduit not reused shall be removed. equipment supplier shall employ NICET (minimum Level III fire alarm technology) technician at their local office to prepare installation drawings and verify compliance with the 7. Data Only Outlets shall consist of 4-11/16 inch by 4-11/16 inch by 2-1/8 inch deep J-box (42 cubic inches) with single gang mud ring and minimum of a 1 inch conduit. Conduit size shall be increased as 5. All fire detection and alarm system devices, control units and remote annunciators shall be flush mounted when located in finished areas and may be surface mounted when located in unfinished required based on need to meet conduit fill or multiple conduits provided to meet conduit fill requirements based on the number of cables ran to each outlet location. Each outlet shall include the number of specifications. RJ-45/8 wire modular jacks rated CAT 6A indicated or a minimum of two (2) where not noted. Each jack shall be fed by its own CAT 6A 4 pair cable. All conduits and cables will be terminated at patch areas. Exact locations are to be approved by the COR. 3. Installer Qualifications: Manufacturer authorized distributor and installer of Simplex Fire Alarm Systems, with minimum five years documented experience for installing Fire Alarm panels in existing data/tele closet located in the basement of Building 2. System. The manual shall be updated to include any information necessitated by the maintenance and operating manual approval. Complete "As installed" wiring and schematic 6. Speakers shall be ceiling mounted and fully recessed in areas with suspended ceilings. Speakers shall be wall mounted and recessed in finished areas without suspended ceilings. Speakers may 8. Wall Phone Voice outlets shall consist of 4-11/16 inch by 4-11/16 inch by 2-1/8 inch deep J-box (42 cubic inches) with single gang mud ring and minimum of a 3/4 inch conduit and have appropriate face diagrams shall be included that shows all items of equipment and their interconnecting wiring. Show all final terminal identifications. Complete listing of all programming information, be surface mounted in unfinished areas. including all control events per device including an updated input/output matrix. Certificate of Installation as required by NFPA 72 for each building. The certificate shall identify any plate for hanging phone with one RJ-45/8 wire jack rated CAT 6A. All conduits and cables will be terminated at patch panels in existing data/tele closet located in the basement of Building 2. variations from the National Fire Alarm Code. Certificate from equipment manufacturer assuring compliance with all manufacturers installation requirements and satisfactory system 7. Strobes shall be flush wall mounted with the bottom of the unit located 80 inches (2,000 mm) above the floor or 6 inches (150 mm) below ceiling, whichever is lower. Locate and mount to 9. Wireless Access Points (WAP's) shall consist of 4-11/16 inch by 4-11/16 inch by 2-1/8 inch deep J-box (42 cubic inches) with single gang mud ring and minimum of a 3/4 inch conduit include one CAT 6A operation. maintain a minimum 36 inches (900 mm) clearance from side obstructions. 4 pair cable to each location terminated with an RJ-45/8 wire jack rated CAT 6A. All conduits and cables will be terminated at patch panels in existing data/tele closet located in the basement of Building 2. 8. Manual pull stations shall be installed not less than 42 inches (1,050 mm) or more than 48 inches (1,200 mm) from finished floor to bottom of device and within 60 inches (1,500 mm) of a stairway WAP's will be provided and installed by the Owner. Qualifications: 1. All cabling and terminations shall be by a Johnson Controls IFC Fire Alarm System authorized contractor. This contractor shall be a certified installer with at least 5 years of CAT 6A Cable: verifiable experience. References may be requested. 1. UL Listed CAT 6A, Plenum Rated cable. Systimax GigaSPEED X10D 2091B ETL or equal by Commscope Uniprise, Hubbell, Panduit, or Hitachi. Wire size 23 AWG. 1. Activation of any manual pull station, water flow or pressure switch, heat detector, or smoke detector shall cause the following operations to occur: 2. Label both ends of cable. Label at faceplates and patch panels shall match VA Standard labeling scheme. Coordinate with VA prior to installing. 1. All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of one year from the date of acceptance a. Operate the emergency voice communication system in Building 2. For sprinkler protected buildings, flash strobes continuously only in the zone of alarm. For buildings without sprinkler protection throughout, flash strobes continuously only on the floor of alarm. Confirm this operation with the Hot Springs VA Fire Department. of the entire installation by the Contracting Officer. 3. Patch Cord Assembly: Provide 2 patch cords per terminated cable. Patch cords shall be CAT 6A, 7 feet length for closet end and 10 feet for User/Outlet end connection. b. Continuously sound a temporal pattern general alarm and flash all strobes in the building in alarm until reset at the local fire alarm control unit in Building 2. 1. Complete inspection, testing, maintenance and repair service for the fire alarm system shall be provided by a factory trained authorized representative of the manufacturer of the System Components: c. Release only the magnetic door holders in the smoke zone on the floor from which alarm was initiated. 1. All components such as faceplates and RJ-45 jacks shall be by a single manufacturer and 100% compatible (ie. completely interchangeable, etc.). Male and Female RJ-45 jacks shall be CAT 6A rated. major equipment for a period of 5 years from the date of acceptance of the entire installation by the Contracting Officer. Materials shall be equal to Leviton or Panduit Netkey style. 2. Contractor shall provide all necessary test equipment, parts and labor to perform required inspection, testing, maintenance and repair. d. Transmit a separate alarm signal, via the main fire alarm control unit to the fire department 2. Faceplates shall be a minimum of 4 port with ID window or 6 port with ID windows provided where 6 port outlets are specifically noted. 3. All inspection, testing, maintenance and permanent records required by NFPA 72, and recommended by the equipment manufacturer shall be provided by the contractor. Work e. Unlock the electrically locked exit doors on the floor of the alarm. shall include operation of sprinkler system alarm and supervisory devices as well as all reused existing equipment connected to the fire alarm system. It shall include all interfaced 3. Wall phone plates shall have studs for hanging phone and one CAT 6A port. equipment including but not limited to elevators, HVAC shutdown, and extinguishing systems. 2. Heat detectors in elevator machine rooms shall, in addition to the above functions, disconnect all power to all elevators served by that machine room after a time delay. The time delay shall be Testing of Copper Systems: programmed within the fire alarm system programming and be equal to the time it takes for the car to travel from the highest to the lowest level, plus 10 seconds. 4. Maintenance and testing shall be performed in accordance with NFPA 72. A computerized preventive maintenance schedule shall be provided and shall describe the protocol for 1. Test 100% of the cables installed. Conduct testing after terminations have been made at room jack and patch panels. Any cable that fails must be replaced and or re-terminated until it passes. preventive maintenance of equipment. The schedule shall include a systematic examination, adjustment and cleaning of all equipment. 3. Smoke detectors in the primary elevator lobbies of Buildings 2 shall, in addition to the above functions, return all elevators to the secondary floor. 2. Owner shall be provided the option to observe all testing. Contractor shall notify Owner's representative 48 hours before commencing testing so Owner can make arrangement for observing testing. 5. Non-included Work: Repair service shall not include the performance of any work due to improper use, accidents, or negligence for which the contractor is not responsible. 5. Operation of a smoke detector at a corridor door used for automatic closing shall also release only the magnetic door holders on that floor. 3. Contractor shall provide a printed copy of all tests and test results and provide a copy within each of the O&M manuals. An electronic copy of the test results shall also be provided with the O&M 6. Service and emergency personnel shall report to the Engineering Office or their authorized representative upon arrival at the hospital and again upon the completion of the required 6. Operation of duct smoke detectors shall cause a system supervisory condition and shut down the ventilation system and close the associated smoke dampers as appropriate. work. A copy of the work ticket containing a complete description of the work performed and parts replaced shall be provided to the VA COR or his authorized representative. 4. Test all CAT 6A cable to current BICSI standards for CAT 6A cabling using properly calibrated test equipment. Test report shall identify the cable being tested by matching labeling scheme approved 7. Operation of any sprinkler or standpipe system valve supervisory switch, high/low air pressure switch, or fire pump alarm switch shall cause a system supervisory condition. 7. Emergency Service: during the installation process. Test and record the following: NEXT (Near End Cross Talk) NEXT (Near End Cross Talk); Attenuation; ACR (Attenuation to Cross Talk Ratio); Length of cable; 4% or 2 feet a. Warranty Period Service: Service other than the preventative maintenance, inspection, and testing required by NFPA 72 shall be considered emergency call-back service and whichever is greater; Impedance; Loop Resistance; Capacitance; Measure Wire Map; Capable of indicating pass or failure of testing. 8. Alarm verification shall not be used for smoke detectors installed for the purpose of early warning covered under the warranty of the installation during the first year of the warranty period, unless the required service is a result of abuse or misuse by the Government. Written SECTION 275123 INTERCOMMUNICATIONS SYSTEMS (INTERCOM) notification shall not be required for emergency warranty period service and the contractor shall respond as outlined in the following sections on Normal and Overtime Emergency Call-Back Service. Warranty period service can be required during normal or overtime emergency call-back service time periods at the discretion of the COR or his authorized 1. Provide the service of a NICET level III, competent, factory trained engineer or technician authorized by the manufacturer of the fire alarm equipment to technically supervise and participate during all of the adjustments and tests for the system. Make all adjustments and tests in the presence of the COR. 1. Submit floor plan layout of speaker locations with cabling interconnection shown. Provide wiring connection details for all connections to speakers and head end equipment. b. Normal and overtime emergency call-back service shall consist of an on-site response within 2 hours of notification of a system trouble. 2. When the systems have been completed and prior to the scheduling of the final inspection, furnish testing equipment and perform the following tests in the presence of the COR. When any 2. Product data: defects are detected, make repairs or install replacement components, and repeat the tests until such time that the complete fire alarm systems meets all contract requirements. After the system has a. NOTE: All components shall be as specified or be 100% compatible (ie. completely interchangeable, etc.). c. Normal emergency call-back service times are between the hours of 7:30 a.m. and 4:00 p.m., Monday through Friday, exclusive of federal holidays. Service performed during all passed the initial test and been approved by the COR, the contractor may request a final inspection. b. Materials list of items proposed to be provided under this section. other times shall be considered to be overtime emergency call-back service. The cost of all normal emergency call-back service for years 2 through 5 shall be included in the cost of c. Manufacturer's specifications and other data needed to provide compliance with the specified requirements. a. Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation. 3. Project Record Documents: Record actual locations and sizes of pathways and speakers. d. Overtime emergency call-back service shall be provided for the system when requested by the Government. The cost of the first 40 manhours per year of overtime call-back b. Test the insulation on all installed cable and wiring by standard methods as recommended by the equipment manufacturer. service during years 2 through 5 of this contract shall be provided under this contract. Payment for overtime emergency call-back service in excess of the 40 man hours per year requirement will be handled through separate purchase orders. The method of calculating overtime emergency call-back hours is based on actual time spent on site and does not c. Run water through all flow switches. Check time delay on water flow switches. Submit a report listing all water flow switch operations and their retard time in seconds. 1. Work shall be installed in accordance with the manufacturer's recommendations of the equipment to be supplied and installed under this contract. Installations and materials shall be in accordance with latest edition of the Uniform Building Code (UBC), National Electrical Code (NEC), and Building Industry Consulting Service International (BICSI). d. Open each alarm initiating and notification circuit to see if trouble signal actuates. 8. The contractor shall maintain a log at each fire alarm control unit. The log shall list the date and time of all examinations and trouble calls, condition of the system, and name of the e. Ground each alarm initiation and notification circuit and verify response of trouble signals. 2. Installer Qualifications: Company specializing in installing similar systems, with minimum five years documented experience. technician. Each trouble call shall be fully described, including the nature of the trouble, necessary correction performed, and parts replaced. 1. All cabling and terminations shall be by a telecommunications contractor. This contractor shall be a certified installer with at least 5 years of verifiable experience. References may be requested. 1. The existing Fire Alarm System serving the Hot Springs VA Medical Complex is a Johnson Controls Johnson Controls IFC Fire Alarm System. It is the intent of this project to 1. Prior to final acceptance a minimum 30 day "burn in" period shall be provided. The purpose shall be to allow equipment to stabilize and potential installation and software problems and equipment integrate all of the work performed under this contract into the existing Johnson Controls Johnson Controls IFC Fire Alarm System. The Contractor is to provide conduits, junction malfunctions to be identified and corrected. During this diagnostic period, all system operations and malfunctions shall be recorded. Final acceptance will be made upon successful completion of the boxes, cables, terminations, devices and equipment to form a complete and functioning Fire Alarm System that is networked with the rest of Hot Springs VA Medical Complex. The "burn in" period and where the last 14 days is without a system or equipment malfunction. 1. Work subject to terms of Article "Warranty of Construction," FAR clause 52.246-21. existing Fire Alarm Control Panel (FACP) is located in the basement floor level of Building 2. All work performed as part of this project shall be integrated with this existing FACP. 2. At the final inspection a factory trained representative of the manufacturer of the major equipment shall repeat the tests in Article 3.3 TESTS and those required by NFPA 72. In addition the 2. Alarm, trouble and supervisory signals from all intelligent reporting devices shall be encoded on a Class A (NFPA Style 4) Signaling Line Circuit (SLC). representative shall demonstrate that the systems function properly in every respect. The demonstration shall be made in the presence of a VA representative. System Description: 1. Provide conduits, junction boxes, cables, backboxes and speakers to form a complete and functioning Intercom System. The existing paging racks are located in Building #2 in the electrical room near 3. Initiation Device Circuits (IDC) shall be wired Class A (NFPA Style C), as part of an addressable device connected by the SLC Circuit. the electrical shop across from the fire alarm control panel in the hall. The existing amplifiers are of sufficient size to carry the new load. 1. The manufacturer's authorized representative shall provide instruction and training to the VA as follows: 4. Notification Appliance Circuits (NAC) shall be wired Class A (NFPA Style Y), as part of an addressable device connected by the SLC Circuit. The existing Intercom system is a custom Dukane Paging System. a. Four 2-hour sessions to Engineering and Fire Department staff for detailed operation of the system. Two sessions at the completion of installation and 2 sessions 3 months after the completion of Equipment and Materials, General: 1. All equipment and components shall be new unless specifically noted that certain components maybe reused. All equipment and components shall be manufactured by Johnson 2. The Contractor and/or the Systems Manufacturer's representative shall provide a typewritten "Sequence of Operation" including a trouble shooting guide of the entire system for submittal to the Controls Johnson Controls IFC and be UL listed for use with the existing Johnson Controls Johnson Controls IFC FACP. The authorized representative of the manufacturer of the major equipment shall certify that the installation complies with all manufacturers' requirements and that satisfactory total system operation has been achieved. VA. The sequence of operation will be shown for each input in the system in a matrix format and provided in a loose leaf binder. When reading the sequence of operation, the reader will be able to guickly and easily determine what output will occur upon activation of any input in the system. The INPUT/OUTPUT matrix format shall be as shown in Appendix A to NFPA 72. 1. Digitized voice messages shall be provided for each smoke zone of Buildings // indicate buildings //. The messages shall be arranged with a 3 second alert tone, a "Code Red" or "Nurse Blaze" of "Doctor Firestone" message and a description of the fire alarm area (building number, floor, level and smoke zone). A sample of such a message is as follows: Building Two, Second Floor, East Wing Code Red Building Two, Second Floor, East Wing Building Two, Second Floor, East Wing one eighth inch = one foot

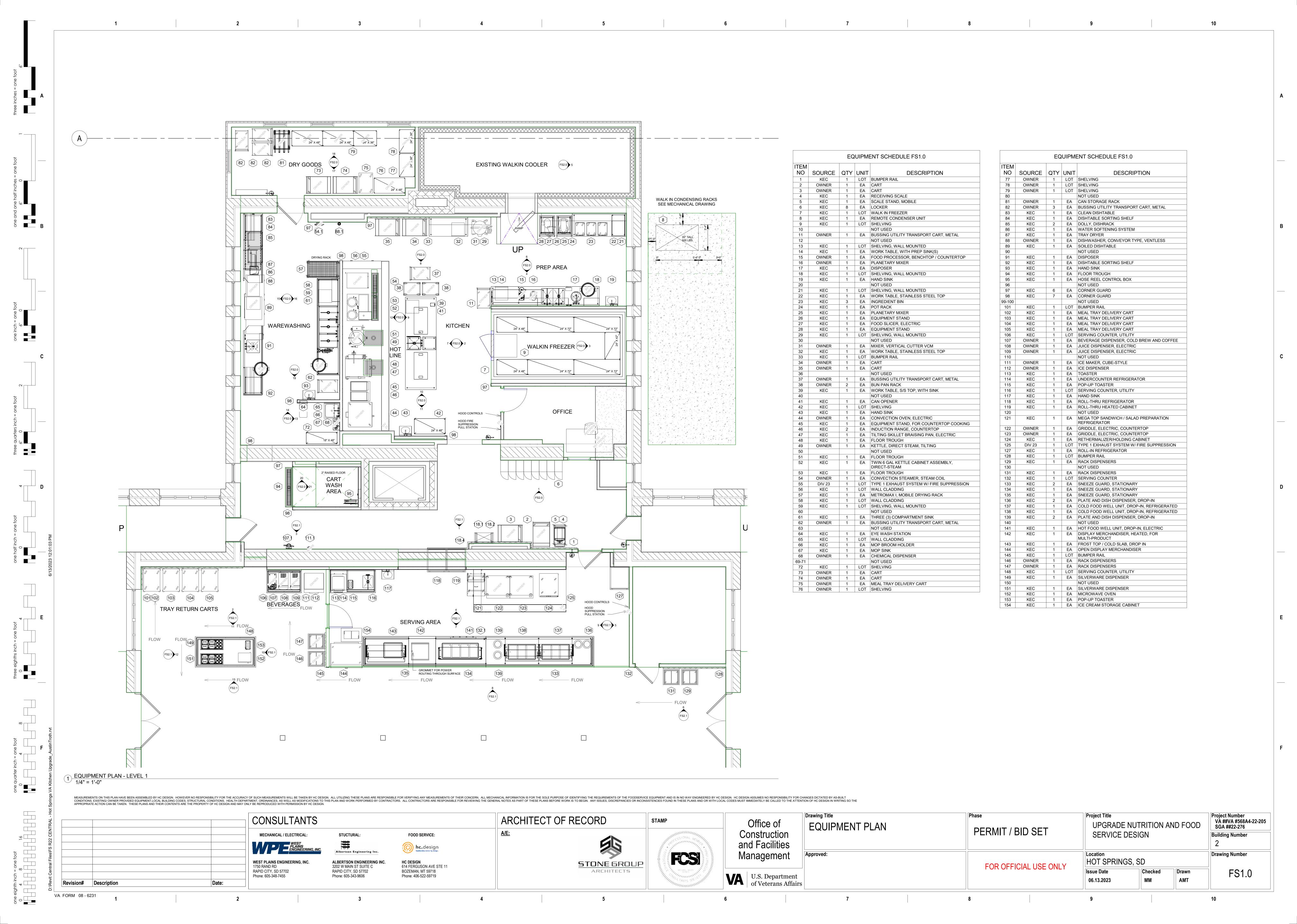
0 4 8 16 **Project Title Project Number Drawing Title** CONSULTANTS ARCHITECT OF RECORD STAMP VA #VA #568A4-22-205 Office of **UPGRADE NUTRITION AND FOOD ELECTRICAL SPECIFICATIONS** SGA #SGA #211916 PERMIT/BID SET Construction SERVICE DESIGN **Building Number FOOD SERVICE MECHANICAL / ELECTRICAL:** STUCTURAL: **Stone Group Architects** and Facilities hc.design 600 E 7th Street Albertson Engineering Inc Management **Drawing Number** Location Sioux Falls, SD 57103 HOT SPRINGS, SD WEST PLAINS ENGINEERING, INC **ALBERTSON ENGINEERING II STONE** GROUP 605-271-1144 FOR OFFICIAL USE ONLY 614 FERGUSON AVE STE 1 3202 W MAIN ST SUITE C E60′ ARCHITECTS Issue Date Checked RAPID CITY, SD 57703 RAPID CITY, SD 57702 BOZEMAN, MT 59718 Drawn U.S. Department of Veterans Affairs Phone: 605-348-7455 Phone: 605-343-9606 Phone: 406-522-59719 MKV 06-13-2023 VLS WPE #BR22042 | Revision# | Description

VA FORM 08 - 6231



| SECTION 1: GENERAL INFORMATI | ON | SECTION 4: PLUMBING CONTRACTOR | SECTION 6: ELECTRICAL CONTRACTOR | SECTION 9: VENTILATION CONTRACTOR | ELECTRIC | AL SYMBOLS AND ABBRE | /IATIONS | |
|--|---|---|--|---|--------------------|--|--|-------------------------|
| THESE FOODSERVICE PLANS ARE FOR THE SOLE PURPOSE OF AND THE REQUIREMENTS FOR THE FOODSERVICE EQUIPMENT | ONLY. THESE PLANS ARE NOT FOR | A. THE PLUMBING ROUGH-INS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOODSERVICE A EQUIPMENT REQUIREMENTS ONLY. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR (B.C.) TO CONSULT THE ABOUTECT'S ENCINEERS AND OR OTHER CONSULTANT'S PLANS AND THE | A. THE ELECTRICAL ROUGH-INS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT REQUIREMENTS ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR (E.C.) TO CONSULT THE ARCHITECT'S ELECTRICAL ENGINEERS AND OR OTHER | A. MECHANICAL CONTRACTOR TO PROVIDE DUCT WORK, (ALL WELDING OF HOOD AND DUCT REQUIRED) CONTROLS, DUCT COLLAR, TRANSITIONS, FIRE WRAP, FINAL CONNECTIONS, PERMITS, | | INDICATES DUPLEX PLUG, VERTICAL RECEPTAC | CLE | |
| GENERAL CONSTRUCTION. SEE ARCHITECTURAL PLANS FOR A LAST DATED REVISIONS VOID ALL PREVIOUS PLANS | LL GENERAL CONSTRUCTION | (P.C.) TO CONSULT THE ARCHITECT'S, ENGINEERS AND/OR OTHER CONSULTANT'S PLANS AND THE OWNER FOR ADDITIONAL BUILDING PLUMBING REQUIREMENTS | CONTRACTOR (E.C.) TO CONSULT THE ARCHITECT'S, ELECTRICAL ENGINEERS AND/OR OTHER CONSULTANT'S PLANS AND THE OWNER FOR FURTHER BUILDING ELECTRICAL REQUIREMENTS | AND ALL OTHER FASTENERS/HARDWARE TO INSURE PROPER INSTALLATION, UNLESS OTHERWISE SPECIFIED. SPECIFICATION OF ABOVE BY MECHANICAL ENGINEER. MECHANICAL CONTRACTOR TO INSTALL HOODS PER LOCAL AHJ | | INDICATES SIMPLEX PLUG, VERTICAL RECEPTA | | |
| ALL DIMENSIONS SHOWN ARE MEASURED FROM FINISHED WAS COLUMN TO CENTER LINES OF STUBS OR OUTLETS. ALLOWAN | CES SHALL BE MADE FOR | B. WHERE EQUIPMENT IS NOTED AS EXISTING, UTILITY REQUIREMENTS SHOULD BE VERIFIED AND MATCH AS INDICATED ON MANUFACTURER'S DATA PLATE. IF EQUIPMENT IS NOT RELOCATED, RECONNECT AS REQUIRED BY CODE. PLUMBING CONTRACTOR TO VERIFY EXISTING UTILITIES AND REQUIREMENT REQUIREMENTS AND RELIES IS DOSSIBLE. | THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL COMPRESSORS AND PROVIDE FUSED DISCONNECTS, MAGNETIC STARTERS AND THERMAL OVERLOAD PROTECTION AS REQUIRED | B. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL MECHANICAL EQUIPMENT AS REQUIRED BY APPLICABLE AHJ. MECHANICAL CONTRACTOR TO VERIFY | | INDICATES DUPLEX PLUG, HORIZONTAL RECEPTION INDICATES SIMPLEX PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZONTAL PLUG, HORIZON | | |
| MISCELLANEOUS OBSTRUCTIONS, STRUCTURES, VENTING, ELI THICKNESS OF FINISHES WHEN FRAMING AND/OR ROUGHING-I | | C. PLUMBING CONTRACTOR TO INSTALL AND FURNISH, AS NECESSARY WHEN NOT PROVIDED, THE | C. VAPOR PROOF LIGHT FIXTURES AND SWITCH BOXES FOR EXHAUST HOODS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY E.C. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL, CONDUIT, WIRE, BULBS, ETC. PROVIDE AND CONNECT TO A WALL MOUNTED | NECESSARY REQUIREMENTS C. MECHANICAL CONTRACTOR (H.V.A.C.) TO BALANCE EXHAUST SYSTEM | CR | INDICATES SIMPLEX PLUG, HORIZONTAL RECEF CONVENIENCE RECEPTACLE - AT NOTED AFF | IACLE | |
| SECTION 2: EQUIPMENT INSTALL | | FOLLOWING IN ACCORDANCE WITH APPLICABLE CODES 1. ALL REQUIRED MATERIALS, PER AHJ, TO COMPLETE CONNECTIONS, SUCH AS STOPS, | SWITCH (WITH PILOT LIGHT), UNLESS OTHERWISE NOTED VAPOR PROOF LIGHT FIXTURES FOR WALK-IN COOLERS AND FREEZERS SHALL BE FURNISHED | D. ALL ROOF CURB TO BE PROVIDED BY M.C. INSTALLED BY M.C. INCLUDING RESEALING OF ROOF AND ROOF PENETRATIONS, UNLESS OTHERWISE NOTED | | INDICATES 115V | | |
| · | ADE TO BE 11:00 | VALVES, FILTERS, CHECK VALVES, DUAL CHECK VALVES, BACK FLOW PREVENTER, VACUUM BREAKERS, RPZ DEVICES, PRESSURE REDUCING VALVES, GATE VALVES, SOLENOID VALVES, SIPHON BREAKERS, PIPING, TUBING, MISC. FITTINGS, TRAPS, ETC. UNLESS OTHERWISE | WITH AN EXTERIOR PILOT LIGHT SWITCH BY THE KITCHEN EQUIPMENT CONTRACTOR, IF APPLICABLE. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INTERCONNECT AND INSTALL THESE ITEMS AS REQUIRED. ELECTRICAL CONTRACTOR SHALL | E. ALL C.F.M. REQUIREMENTS SHOWN ON DRAWING TO BE VERIFIED BY MECHANICAL ENGINEER. ALL C.F.M. SPECIFIED BY HC.DESIGN ARE RATED AT DUCT COLLAR ONLY AND DO NOT INCLUDE ANY | | INDICATES 208V | | |
| ALL COUNTERTOP EQUIPMENT THAT IS NOT EASILY REMOVED TO ALLOW CLEANING, OR SEALED TO THE TABLE WITH AN N.S. | . APPROVED SILICONE | SPECIFIED BY H-C DESIGN & CONSULTING 2. ALL WATER, WASTE, GAS, AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. | INTERCONNECT AND INSTALL THESE TEMS AS REQUIRED. ELECTRICAL CONTRACTOR SHALL INTERCONNECT LIGHTING, DOOR HEATERS, DRAIN HEAT TAPE OR RELIEF PORTS WITH EVAPORATOR | STATIC PRESSURE OF DUCT REQUIRED (UNLESS NOTED) F. ALL DUCT COLLARS, CUTOUTS AND PENETRATIONS IN HOODS TO BE LOCATED AND PROVIDED BY | • | INDICATES DROP FROM CEILING | | |
| KITCHEN EQUIPMENT CONTRACTOR TO USE ONLY CLEAR N.S.F SEALING APPROPRIATE EQUIPMENT TO WALLS AND WHERE AE | UTTED TO OTHER EQUIPMENT | ROUGH-IN TO STUB 4" OUT OF WALLS/FLOORS AT HEIGHT INDICATED FROM FINISHED FLOOR TO CENTER LINE OF ROUGH-IN | ELECTRICAL CONTRACTOR TO INTERCONNECT THE REMOTE REFRIGERATION'S COMPRESSOR, EVAPORATOR, THERMOSTAT, SOLENOID AND DEFROST TIMER (ALL CONTROLS) WHERE REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL HEAT TAPE FOR REFRIGERATION | MECHANICAL CONTRACTOR IN FIELD AND TO MAINTAIN UL LISTING G. GENERAL CONTRACTOR TO PROVIDE ALL DUCT CHASES FROM HOOD THROUGH ROOF IN | 8 | INDICATES FLOOR CONDUIT STUB | | |
| ALL FLOOR BASED EQUIPMENT NOT SEALED TO WALL IS TO HAPULLED OUT FOR CLEANING, UNLESS NOTED OTHERWISE | VE 5"- 6" CASTERS AND EASILY | 3. PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, AND OTHER EQUIPMENT AS OTHERWISE NOTED, IN FOODSERVICE AREAS | REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL HEAT TAPE FOR REFRIGERATION DRAIN LINE WHEN WALK IN FREEZER IS SPECIFIED PER FOODSERVICE DETAILS ALL ELECTRICAL MATERIALS INCLUDING WIRING, FLEX, CONDUIT, SWITCHES, DISCONNECTS, | G. GENERAL CONTRACTOR TO PROVIDE ALL DUCT CHASES FROM HOOD THROUGH ROOF IN ACCORDANCE WITH APPLICABLE AHJ H. MECHANICAL CONTRACTOR TO PROVIDE KITCHEN EXHAUST HOODS, FANS (EXHAUST & MAKE UP | D . | DATA CONNECTION SQUARE BOX TYPICAL | | |
| A MINIMUM OF 36" TO BE MAINTAINED IN ALL AISLES ALL SHELVES ARE TO BE MADE OF A SMOOTH CLEANABLE SUF | FACE AND N.S.F. APPROVED NO | 4. ALL FLOOR SINKS, TROUGHS, TRENCHES AND FLOOR DRAINS. COMPLETE WITH TOP GRATES INDICATED AND REMOVABLE SEDIMENT BUCKETS SET FLUSH WITH FINISHED FLOOR, UNLESS NOTED OR AS PER LOCAL AHJ. POUR TROUGHS TO BE ALIGNED TO EQUIPMENT PER | ALL ELECTRICAL MATERIALS INCLUDING WIRING, FLEX, CONDUIT, SWITCHES, DISCONNECTS, MAGNETIC STARTERS, THERMO-OVERLOAD PROTECTORS, TRANSFORMERS, ELECTRICAL PANELS, CORDS, PLUGS, RECEPTACLES, BULBS, ETC. SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFIED IN THESE PLANS OR IN WRITING | AIR UNITS), WHEN NOT SPECIFIED IN 11 40 00. FIRE SUPPRESSION BY M.C. OR LOCAL FIRE SUPPRESSION CONTRACTOR (AS NOTED) | J | J BOX CONNECTION, SQUARE BOX TYPICAL | | |
| SHELVING TO BE LOWER THAT 8" ABOVE THE FINISHED FLOOR INSTALL FOODSERVICE EQUIPMENT LEVEL AND PLUMB, ACCOR | | PLAN AND MANUFACTURER CUT SHEET, P.C. RECOMMENDED TO SEND INITIAL PHOTOS AND DIMENSIONS TO HC.DESIGN FOR INSTALL VERIFICATION BEFORE CONCRETE IS POURED | 6. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE WATER PROOF | SECTION 10: PROJECT FINISHES | | INDICATES LOW PROFILE PEDESTAL OUTLET | | |
| WRITTEN INSTRUCTIONS PROVIDE CUTOUTS IN EQUIPMENT, NEATLY FORMED, WHERE F | | 5. ALL WASTE LINES, DIRECT OR INDIRECT, EXCEPT AS NOTED, SHALL BE PITCHED DOWNWARD. ALL WASTE LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS | POWER OUTLET(S) ON THE ROOF FOR EXHAUST SYSTEM FAN(S) MAKE-UP AIR FAN(S) AND REFRIGERATION SYSTEM(S) AS REQUIRED. LOW VOLTAGE (OR COMMON VOLTAGE) WIRING SHALL ALSO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR WHEN NECESSARY TO | A. SEE ARCHITECTURAL/INTERIOR SHEETS AND DOCUMENTATION FOR ALL APPARENT FINISHES. ALL APPARENT FINISHES INDICATED IN THESE PLANS NOT SPECIFIED WITHIN FOODSERVICE DOCUMENTS ARE TO BE VERIFIED WITH THE PROJECT DOCUMENTS | | INDICATES RECESSED OUTLET BOX | | |
| THROUGH EQUIPMENT TO MAKE FINAL CONNECTIONS | | 6. INDIVIDUAL INDIRECT WASTE LINES FOR WALK-IN COOLER/FREEZER EVAPORATOR COILS WITH P-TRAP BEFORE FLOOR SINK AND AT EACH EVAPORATOR, PER DRAIN AND MOUNTING | CONTROL AND INTERCONNECT THE ABOVE SYSTEMS I. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ELECTRICAL | | AFF | ABOVE FINISHED FLOOR | | |
| COMPLETE EQUIPMENT ASSEMBLY WHERE FIELD ASSEMBLY IS AND CONTACT JOINTS THAT DO NOT REQUIRE A FILLER. GRIND EQUIPMENT SMOOTH, AND POLISH TO MATCH ADJACENT FINIS | FIELD WELDS ON STAINLESS STEEL | DETAILS. TO INCLUDE CLEAN OUT AT EACH EVAPORATOR 7. GAS SHUTOFF SOLENOID VALVE FOR EXHAUST HOOD(S) FIRE SUPPRESSION SYSTEM. | EQUIPMENT AS REQUIRED BY APPLICABLE AHJ. ELECTRICAL CONTRACTOR TO VERIFY NECESSARY REQUIREMENTS ARE PROVIDED | SECTION 11: PLAN INDEX | | NOTE: ALL OUTLETS TO BE DEDICATED CIRCUIT NOTE: ALL ABOVE FINISH FLOOR (AFF) MEASUR | | |
| INSTALL EQUIPMENT WITH ACCESS AND MAINTENANCE CLEAR MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND MAINTENANCE CLEAR WRITTEN INSTALLATION INSTRUCTIONS AND MAINTENANCE CLEAR WRITTEN INSTALLATION INSTRUCTIONS AND MAINTENANCE CLEAR WRITTEN INSTALLATION INSTRUCTION INS | | ELECTRICAL CONTRACTOR TO INTER-WIRE WITH EXHAUST FAN(S) PER CODE 8. INSULATION FOR ALL STEAM, HOT WATER AND CONDENSATE RETURN LINES IN KITCHEN. | ALL DIMENSIONS SHOWN ON THESE PLANS ARE MEASURED FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR COLUMN CENTER LINES OR GRID LINES TO CENTER LINE OF OUTLETS AND PULL BOXES. THE ELECTRICAL CONTRACTOR SHALL MAKE ALLOWANCES FOR FINISHES WHEN | | 1 | THE OUTLET ' ' | | |
| HAVING JURISDICTION INSTALL CLOSURE-TRIM STRIPS AND SIMILAR ITEMS REQUIRING | G FASTENERS IN A BED OF SEALANT | ALSO TO INSULATE ICE STORAGE PANS TO PREVENT DRAIN FROM SWEATING 9. CLEAN-OUT VALVES FOR STEAM CONDENSATE AND AIR LINES J | ROUGHING-IN THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ELEMENT CONTACT (RELAY) AND/OR | SHEET SHEET NAME FS0.0 FOODSERVICE COVER PAGE | FSPS | NOTE: FIRE SUPPRESSION PULL STATION RECE OCTAGONAL BOX TYPICAL (ANSUL MODEL APS- | BBOX) | |
| INSTALL JOINT SEALANT IN JOINTS BETWEEN EQUIPMENT AND CONTINUOUS JOINT BACKING, UNLESS OTHERWISE INDICATED | PRODUCE AIRTIGHT, WATERTIGHT, | 10. ALL PIPING TO AND FROM EQUIPMENT SHALL BE KEPT AT A MINIMUM OF (6") ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. ROUTING TO NOT IMPEDE THE ACCESS, FUNCTIONALITY | SHUTOFFS (SHUNT TRIP) AND INTERCONNECT WITH THE FIRE SUPPRESSION SYSTEM FOR THE COOKING EQUIPMENT, TO SHUT OFF ALL EQUIPMENT AUTOMATICALLY IN CASE OF FIRE. VERIFY WITH LOCAL AHJ FOR SHUTDOWN OF EXHAUST FAN(S) AND OR MAKE- UP AIR FAN(S) | FS0.1 EQUIPMENT PLAN - DEMO FS1.0 EQUIPMENT PLAN | H FC TO BEVIEWAY | NOTE: HOOD CONTROLS RECESSED IN WALL AT | · | |
| VERMIN-PROOF, SANITARY JOINTS. SEALANT TO BE CLEAR IN A REMOVE ALL PACKAGING, PALLETS, CARDBOARD AND TRASH I | LL LOCATIONS | OR MAINTENANCE OF EQUIPMENT 11. INTERCONNECTION BETWEEN STEAM EQUIPMENT AND STEAM GENERATOR WHEN STEAM IS | REQUIREMENTS. ONLY APPLICABLE FOR TYPE I HOOD SYSTEM (. ALL PROPOSED FOODSERVICE SPECIFIED OUTLETS TO BE DESIGNED TO HAVE DEDICATED | FS1.1 EQUIPMENT PLAN FS2.0 EQUIPMENT ELEVATIONS FS2.1 EQUIPMENT ELEVATIONS | | ITTEN SPECIFICATION MANUAL AS WELL AS THIS SO ITTEN SPECIFICATION MANUAL WILL TAKE PRECED | | |
| EQUIPMENT AND PROPERLY DISPOSE ALL WORK TO BE DONE IN A NEAT WORKMAN LIKE MANNER. PF | | USED | BREAKERS WITHOUT PARALLEL OR SERIES CIRCUITS | FS2.2 3D VIEWS FS3.0 ELECTRICAL PLAN | FOR SPOT FOODSE | ERVICE CONNECTION PURPOSES ONLY - REFER TO AL SET | THE ELECTRICAL SHEETS WITH | |
| EQUIPMENT MANUFACTURERS' OPERATION MANUALS & WARR AFTER COMPLETING INSTALLATION OF EQUIPMENT, REPAIR DA | ANTY | 12. REMOTE FILTER CONDITIONS TO MATCH DESIGN INTENT VISIBLE IN FOODSERVICE PLANS, ELEVATIONS, AND DETAILS. CONDITIONS TO BE AS LOW PROFILE AND CLEAN AS POSSIBLE, EXCESS PIPING OR ADAPTATION OF DESIGN DUE TO LATE INSTALL IS NOT ACCEPTABLE. P.C. | ALL EXPOSED ELECTRICAL CONDUIT EXPOSED TO SPLASH, SPILLAGE, OR OTHER FOOD SOILING OR THAT REQUIRE FREQUENT CLEANING TO BE LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) | FS4.0 PLUMBING PLAN FS5.0 DETAILS | PLUMBING | S SYMBOLS AND ABBREVIA | ATIONS LEGEND | |
| AFTER COMPLETING INSTALLATION OF EQUIPMENT, REPAIR DE ADJUST EQUIPMENT AS REQUIRED TO PRODUCE READY-FOR-LEQUIPMENT FROM DAMAGE DURING REMAINDER OF THE CONS | SE CONDITION. PROTECT | TO CONTACT HC.DESIGN WITH QUESTIONS AS NECESSARY TO ENSURE PROPER INSTALL A. PLUMBING CONTRACTOR TO INTERCONNECT DISHMACHINE WITH BOOSTER HEATER AND WATER- | IN CONDITIONS WHERE EXPOSED OUTLET BOXES MUST BE UTILIZED, SUCH AS RETROFIT CMU WALLS, WIRING TO BE ROUTED THROUGH RUST RESISTANT PROTECTED METAL RACEWAY WITH MINIMUM EXPOSURE ON WALL. METAL RACEWAY AND OUTLET BOXES TO BE WATER RESISTANT | FS6.0 BUILDING WORKS PLAN FS6.1 BUILDING WORKS PLAN FS7.0 WALK IN DETAILS | © COLI |) WATER | | |
| SECTION 3: GENERAL CONTRAC | ΓOR | TYPE VENTILATORS WITH CONTROL PANELS AS PER MANUFACTURER'S INSTRUCTION, WHEN APPLICABLE | AND CLEANABLE PER FDA FOOD CODE 6-201.12 WITH NO EXPOSED FASTENERS. SHALLOW OUTLET BOXES TO BE UTILIZED IN ALL CONDITIONS | FS7.1 RDT DETAILS FS7.2 WALK IN DETAILS | | WATER CT DRAIN CONNECTION | | |
| GENERAL CONTRACTOR (G.C.) TO CUT AND PROVIDE HOLES TI | IROUGH CEILING, ROOFS, WALLS | B. UNI-STRUT NOT TO BE UTILIZED OR FASTENED TO FLOORING SURFACE IN ANY INSTANCE. STAINLESS STEEL SHALLOW UNI-STRUT TO BE USED AND SECURED TO UNDERSIDE OF FIXED EQUIPMENT OR WALLS FOR ROUTING OF WATER CONNECTIONS OR DRAINS | I. E.C. TO PROVIDE A MINIMUM OF 50-FOOT CANDLES OF LIGHT AT 30" ABOVE THE FLOOR IN ALL COOKING, PREPARATION, GLASS & DISH WASHING AREAS. ALL LIGHT FIXTURES MUST BE DESIGNED FOR CLEANABILITY AND PROTECTED AGAINST BREAKAGE THROUGH THE USE OF | SOURCE LEGEND | - | CT DRAIN CONNECTION - HIGH TEMP | | |
| AND FLOORS FOR DUCTS, ETĆ. IN ACCORDANCE WITH LOCAL F ACCORDANCE WITH DUCT SIZES SPECIFIED BY DIVISION 23. GI THE RESEALING OF ALL HOLES (INCLUDING THE "MOPPING-IN" | NERAL CONTRACTOR TO PROVIDE DF FAN CURBS AND ROOF JACKS). | C. IN-LINE WATER FILTERS ARE RECOMMENDED FOR THE FOLLOWING EQUIPMENT: (WATER FILTER BY K.E.C. ONLY WHEN NOTED) GLASS WASHERS. SODA SYSTEMS. ICE MACHINES. STEAM | PLASTIC SHIELDS, PLASTIC SLEEVES, SHATTERPROOF BULBS OR OTHER APPROVED DEVICES D. ALL IDENTIFIED FUTURE AND KEC-ALT EQUIPMENT CONNECTIONS TO BE ROUGHED IN TO | KEC KITCHEN EQUIPMENT CONTRACTOR | | CONNECTION | | |
| GENERAL CONTRACTOR TO PRÒVIDE ALL DUCT FIRE SEPARAT CURBS, ETC. AS MAY BE REQUIRED BY LOCAL BUILDING AND F | ON ENCLOSURES, WRAPPINGS, 'RE CODES | EQUIPMENT, WATER HEATERS, BOOSTER HEATERS, SINK HEATERS, AND DISH MACHINES. ALL WATER FILTERS TO HAVE PIPE LABELS INDICATING WHICH EQUIPMENT IS ON THE FILTER | LOCATION WITH ALL WIRING AND CONNECTION AS INDICATED IN ELECTRICAL SCHEDULE AND PLANS | KEC-ALT KEC ALTERNATE EQUIPMENT | | OR SINK - NO GRATE | | |
| WHERE NOISE OR VIBRATION PRODUCING EQUIPMENT (DISH M LOCATED ADJACENT TO DINING AREAS AND/OR ANY PUBLIC AF MADE BY THE GENERAL CONTRACTOR TO "DOUBLE STUD" AND | EAS, PROVISIONS SHOULD BE | D. ALL PLUMBING AND VENT PIPES ARE TO BE CONCEALED IN WALLS OR COLUMN CHASES P CREASE INTERCEPTOR TO BE SPECIFIED AND LOCATED BY MECHANICAL ENGINEER, PROVIDED | P. ALL UTILITY SERVICE LINES, PIPING, AND CONDUIT NOT TO BE UNNECCESARILY EXPOSED IN ALL FOODSERVICE AREAS AND NOT TO OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILING, ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL COVER WHERE EXPOSED. | OSCI OWNER SUPPLIED, CONTRACTOR (KEC) INSTALLED | | DR SINK - HALF GRATE | | |
| WALL MOUNTED EQUIPMENT WITH WEIGHTED STORAGE INCLUCED AND INSTALLED B | DING CANTILEVER TABLES, | E. GREASE INTERCEPTOR TO BE SPECIFIED AND LOCATED BY MECHANICAL ENGINEER. PROVIDED AND INSTALLED BY MECHANICAL OR PLUMBING CONTRACTOR PER LOCAL AHJ | OR CEILING. ELECTRICAL CONTRACTOR TO PROVIDE STAINLESS STEEL COVER WHERE EXPOSED LINES ARE PRESENT. NO EXPOSED SERVICE LINES MAY BE INSTALLED ON THE FLOOR. PER FDA FOOD CODE 6-201.12 | OWNER OWNER SUPPLIED AND INSTALLED NIC BY OTHERS - NOT IN KEC CONTRACT | FLOO | DR SINK HIGH TEMP - HALF GRATE | | |
| CHAIRS, SHELVES, ETC SHALL BE PROVIDED AND INSTALLED B CONTRACTOR TO PROVIDE BACKING AT ALL INSTANCES IT IS THE RESPONSIBILITY OF THE OWNER. ARCHITECT AND/OF | | F. ALL PLUMBING LOCATIONS ARE SHOWN AT OPTIMUM LOCATIONS. UTILIZE ALL EXISTING SERVICES WHERE APPLICABLE | SECTION 7: FIRE SUPPRESSION CONTRACTOR | FUTURE FUTURE EQUIPMENT | FLOC | DR SINK - FULL GRATE | | |
| INFORM HC.DESIGN IN WRITING OF ANY AND ALL CHANGES AN WHICH ARE MADE PRIOR TO AND DURING CONSTRUCTION. HC | O ALL ADDENDUM'S TO PLANS DESIGN ASSUMES NO | G. ALL PLUMBING LINES WITHIN FIXTURES, ARE TO BE RUN THROUGH BULKHEADS, RACEWAYS, AND BEHIND SHELVES WHEREVER POSSIBLE. ROUTING NOT TO PREVENT USE OF STORAGE SPACES | A. A LIQUID CHEMICAL SYSTEM SHALL BE PROVIDED TO PROTECT ALL COOKING EXHAUST HOODS, DUCTS, AND COOKING APPLIANCES AGAINST FIRE AND RE-FLASH. THE SIZE AND NUMBER OF | DIV 22 SEE DIVISION 22 - PLUMBING CONTRACTOR | NOTE: PC TO VERIF | OR TROUGH Y THAT FLOOR SINKS DO NOT INTERFERE WITH LEG | GS AND CASTERS OF EQUIPMENT | |
| RESPONSIBILITY FOR EQUIPMENT DEVIATIONS OF SIZE AND/OF INFORMATION. HC.DESIGN WILL NOT BE RESPONSIBLE FOR ALI GIVE NOTICE OF CHANGES | | H. HOT WATER HEATER TO PROVIDE A MINIMUM OF 140 DEGREE TO DISHWASHER ONLY I. ALL FAUCETS, HAND SINKS, AND DISPOSERS LOCATED ON FOODSERVICE PLAN SHALL BE | SYSTEMS SHALL BE IN CONFORMANCE WITH AHJ. THE SYSTEM SHALL BE INSTALLED BY AUTHORIZED INSTALLERS, IN ACCORDANCE WITH U.L. LISTING | DIV 23 SEE DIVISION 23 - MECHANICAL CONTRACTOR | | TTEN SPECIFICATION MANUAL AS WELL AS THIS SC | | |
| LAST DATED REVISIONS VOID ALL PREVIOUS PLANS | AND LEVELY MARCH TO THE | PROVIDED BY K.E.C. AND MOUNTED/INSTALLED BY PLUMBING CONTRACTOR, UNLESS OTHERWISE NOTED | THE SYSTEM SHALL BE AUTOMATICALLY ACTUATED OR MANUALLY OPERABLE AT THE NOZZLE RELEASE AND A REMOTE RECESSED WALL BOX MANUAL PULL STATION. ACTUATION OF THE SYSTEM SHALL PROVIDE AUTOMATIC GAS AND\OR ELECTRIC FUEL LINE CUT-OFF | DIV 26 SEE DIVISION 26 - ELECTRICAL CONTRACTOR | SCHEDULE | TTEN SPECIFICATION MANUAL WILL TAKE PRECEDE RVICE CONNECTION PURPOSES ONLY - REFER TO | | |
| GENERAL CONTRACTOR TO PROVIDE FLOOR RECESSES (FLAT AND BUILT IN INSULATED FLOORS (AS SHOWN ON PLANS) AS R | EQUIRED | J. WHERE EXPOSED OR SEMI-EXPOSED, PROVIDE BRIGHT CHROME PLATED BRASS OR POLISHED STAINLESS STEEL PIPE. PROVIDE COPPER OR BRASS WHERE NOT EXPOSED | C. FIRE SUPPRESSION CONTRACTOR TO PROVIDE SPRINKLER HEADS IN WALK-IN BOXES, IF | LEGEND OF SYMBOLS | ARCHITECTURAL SE | T RE MINIMUM WATER LINE SIZES AND NOT CONNEC | | |
| WEARING FLOOR FINISH AND COVE BASE IN WALK-IN BOXES TO CONTRACTOR UNLESS OTHERWISE SPECIFIED BY K.E.C | | K. ALL COUNTERTOP UNITS REQUIRING A WATER CONNECTION TO HAVE FLEXIBLE BRAIDED STAINLESS STEEL SUPPLY HOSE | REQUIRED BY LOCAL AHJ, ADEQUATELY PROTECTED AGAINST FREEZING. CONTRACTOR TO SEAL ALL PENETRATIONS THROUGH WALK-IN STRUCTURE | REF. NUMBER | | ION REQUIREMENTS | | |
| SLEEVES TO BE PROVIDED BY GENERAL CONTRACTOR IN WAL LINES (DRAINS, REFRIGERATION, ETC.) TO PASS THROUGH AND | | L. WATER CONDITIONS TO BE MINIMUM OF THE FOLLOWING STANDARDS, PROVIDE PROVISION IF INCOMING WATER CONDITIONS ARE OUTSIDE FOODSERVICE GENERAL CONDITION PARAMETERS: | COORDINATE WITH ELECTRICAL CONTRACTOR FOR IN WALL FIRE SUPPRESSION PULL STATION(S) AND REMOTE HOOD CONTROL PANELS. ELECTRICAL COOKING EQUIPMENT TO BE SHUTOFF BY MEANS OF SHUNT TRIPS, COORDINATE WITH ELECTRICAL CONTRACTOR. FLUSH MOUNTING IS | ELEVATION MARKER | PLUMBING | S CONNECTIONS AND SYM | BOLS | |
| GENERAL CONTRACTOR TO PROVIDE ACCESS TO HOODS AT A MOUNTING OF HOOD SUPPORTS. IF ACCESS IS NOT PROVIDED PROVIDE HOOD SUPPORTS | | 1. HARDNESS LESS THAN 3 GRAINS 2. SILICA CONTENT LESS THAN 13 PPM | NOT ACCEPTABLE. LOCATION OF PULL STATIONS TO BE COORDINATED WITH AHJ E. ALL HOOD PENETRATIONS TO BE COORDINATED WITH DIVISION 23 EXHAUST SPECIFICATIONS. NO | GENERAL DETAIL MARKER | F | REFRIGERATION LINES CONNECTIONS | | |
| REMOVAL OF WINDOW GLASS, WINDOW FRAMES, DOORS, DOORS, DOORS, OF ENTRY OF EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE | | 3. TOTAL CHLORIDE LESS THAN 4.0 PPH 4. pH RANGE OF 7-8 5. UN-DISSOLVED SOLIDS LESS THEN 5 MICRONS / 17.1 PPM = 1 GRAIN OF HARDNESS | INFIELD HOOD PENETRATIONS ARE ACCEPTABLE | | | DRAIN LINE CONNECTIONS | | |
| NO EXPENSE TO K.E.C | | 6. CONDUCTIVITY OF 50-200 μS/CM 7. NO PRESENCE OF CHLORAMINES | SECTION 8: KITCHEN EQUIPMENT CONTRACTOR | 600 EQUIPMENT TAG | | HIDDEN DRAIN LINE CONNECTIONS FILTER CONNECTIONS | | |
| GENERAL CONTRACTOR TO PROVIDE ALL WALL BACKING PER HC.DESIGN | | M. P.C. TO COORDINATE ANY WATER WASH HOODS SPECIFIED BY DIVISION 23 WITH PLANNED FOODSERVICE EQUIPMENT CONDITIONS AT HOOD AREAS. CONFLICTS ARE TO BE PRESENTED TO HC.DESIGN FOR COMMENT | THE KITCHEN EQUIPMENT CONTRACTOR WILL UNCRATE AND INSTALL ALL EQUIPMENT THAT THE KITCHEN EQUIPMENT CONTRACTOR PROVIDES AS WELL AS ANY EQUIPMENT NOTED TO BE RELOCATED (OSCI) AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.). SEE | AFF ABOVE FINISHED FLOOR PWC EQUIPMENT POWER SUPPLIED BY PRE WIRED CABINET | (F | BLUE = COLD WATER RED = HOT WATER | | |
| WHEN EQUIPMENT IS NOTED AS OWNER PROVIDED, EXISTING, REQUIREMENTS SHOULD MATCH THE MANUFACTURE'S DATA FEQUIPMENT IS NOT RELOCATED, RECONNECT AS REQUIRED IN | LATE REQUIREMENTS. IF EXISTING | ALL IDENTIFIED FUTURE AND KEC-ALT CONNECTIONS CALLED OUT IN PLANS ARE TO BE INSTALLED WITH COMMON USE CONNECTIONS, TO INCLUDE SHUT OFF VALVE, FOR USE BY EQUIPMENT B B Connections B B B B B B B B B B B B B | INSTALLATION NOTES ON THE FS0.0 SHEET THE KITCHEN EQUIPMENT CONTRACTOR WILL PIPE ALL REFRIGERATION LINES FOR REMOTE | PWC/S EQUIPMENT POWER SUPPLIED BY PRE WIRED CABINET, EQUIPMENT TO HAVE INTEGRATED SWITCH | | GAS LINE CONNECTIONS | | |
| CODES WHERE INDICATED TO CONNECT IN OR THROUGH VALVE COMI | ARTMENT, CONTRACTOR SHALL | O. HIGH TEMP FLOOR DRAIN AND FLOOR SINKS TO HAVE CAST IRON PIPE FOR A MINIMUM OF 10' | REFRIGERATION THE KITCHEN EQUIPMENT CONTRACTOR WILL COMPLETE THE WALK-IN COOLERS AND FREEZERS | RTF WATER TO BE ROUTED FROM FILTER LOCATION THEN TO EQUIPMENT (FILTER ITEM NUMBER IF SEPARATE) | | NECTION REFERENCE ONLY, NOT ROUTING LOCATI IPMENT ITEM NUMBER SHOWN AT SOURCE AND DE | | |
| STUB-UP INTO VALVE COMPARTMENT AT HEIGHT INDICATED O WORK AND MAKE FINAL CONNECTIONS AFTER EQUIPMENT IS I | I ROUGH-IN PLAN, CAP THEIR I PLACE | P. ALL PIPING NOT TO BE UNNECCESARILY EXPOSED IN ALL FOODSERVICE AREAS AND NOT TO OBSTRUCT OR PREVENT CLEANING OF THE FLOORS, WALLS, OR CEILING. PLUMBING CONTRACTOR TO PROVIDE STAINLESS STEEL COVER WHERE EXPOSED PIPING ARE PRESENT NO | AND HAVE READY FOR FINAL ELECTRICAL AND PLUMBING CONNECTION BY APPLICABLE TRADESMAN | ECWC EQUIPMENT POWER SUPPLIED BY CABINET, ELECTRICAL CONTRACTOR TO WIRE CABINET DFC POWER DROPPED FROM CEILING TO "ELECTRICAL AFF" HEIGHT | ARROW WITH ref IND | DICATES REMOTE CONNECTION, LACK OF ARROW II SEE ELEVATIONS FOR FURTHER LOCATION INFORM | NDICATES CONNECTION LOCATED | |
| GENERAL CONTRACTOR TO PROVIDE WASTE CONTAINER AT JUSTIELLE BY ARCHITECT | OB SITE FOR K.E.C. AT LOCATION | CONTRACTOR TO PROVIDE STAINLESS STEEL COVER WHERE EXPOSED PIPING ARE PRESENT. NO EXPOSED PIPING MAY BE INSTALLED ON THE FLOOR. PER FDA FOOD CODE 6-201.12 | D. THE KITCHEN EQUIPMENT CONTRACTOR WILL ONLY BE RESPONSIBLE FOR FOODSERVICE EXHAUST HOOD AND/OR SYSTEMS WHEN SPECIFIED WITHIN 11 40 00 DOCUMENTS. SEE DIVISION 23 WHEN NOT SPECIFIED IN 11 40 00 DOCUMENTS | AHJ AUTHORITY HAVING JURISDICTION | | | | |
| REFER TO SECTION 11 40 00 FOR ALL KEC PROVIDED CORNER FOODSERVICE AREAS AS REQUIRED | GUARDS AND CLADDING IN | Q. KEC TO PROVIDE PIPE LABELS FOR ALL REMOTE FILTER LOCATIONS WITH EQUIPMENT IDENTIFICATION. IF MULTIPLE INSTANCES OF A TYPE OF EQUIPMENT EXIST IN THE PROJECT, LABEL IS TO CLEARLY INDICATE WHICH ITEM IS FED FROM EACH FILTER | THE KITCHEN EQUIPMENT CONTRACTOR WILL REVIEW ALL MANUFACTURERS SHOP DRAWINGS, | ELEVATION LEGEND | BUILDING | WORKS LEGEND | | |
| HC.DESIGN RECOMMENDS THE USE OF STEEL STUD FRAMING CONTACT WITH, AND 18" SURROUNDING, TYPE 1 HOOD SYSTEM | | SECTION 5. CONCERTE/THE CONTERACTOR | VERIFY AS-BUILTS AT SITE FOR EQUIPMENT, MAKE CHANGES IF NEEDED AND SIGN OFF ON SHOP DRAWINGS AND SEND A COPY TO HC.DESIGN | STAINLESS STEEL WALL COVERING | FS1 1 | WALL BACKING SYMBOL, SHOWN IN WALL WHE | RE REQUIRED | |
| GENERAL CONTRACTOR (G.C.) TO PROVIDE A SMOOTH, NONAE SURFACE THAT IS LIGHT IN COLOR FOR ALL WALLS AND CEILING | | SECTION 5: CONCRETE/TILE CONTRACTOR A PROVIDE WALK IN REEDICEDATOR/EDECZED DEDRESSIONS TROWEL SMOOTH AND LEVEL DEDTH | KITCHEN EQUIPMENT CONTRACTOR WILL VISIT THE SITE BEFORE INSTALL TO VERIFY ALL AS BUILT DIMENSIONS TO INSURE PROPER INSTALLATION OF FOODSERVICE EQUIPMENT | STAINLESS STEEL EXHAUST HOOD | - | STAINLESS STEEL CORNER GUARDS | | |
| SEE FINISH SCHEDULE THIS SHEET GENERAL CONTRACTOR TO PROVIDE A SMOOTH COVE SURFA | _ | A. PROVIDE WALK-IN REFRIGERATOR/FREEZER DEPRESSIONS. TROWEL SMOOTH AND LEVEL. DEPTH AS NOTED BY HC.DESIGN | 6. ANY SUBSTITUTIONS MUST BE PRIOR APPROVED BY HC.DESIGN AND MEET THE REQUIREMENTS IN 11 40 00 WRITTEN SPECIFICATIONS | STAINLESS STEEL EXHAUST HOOD | - | STAINLESS STEEL END CAPS | | |
| THE FOOD SERVICE AREA. GROUT SHALL BE SMOOTH AND FIN OF THE TILE | _ | B. FILL EXCESS DEPRESSION AROUND WALK-IN REFRIGERATOR/FREEZER WITH GROUT, FINISH FLOOR MATERIAL, AND COVERED AFTER REFRIGERATOR/FREEZER INSTALLED BY K.E.C | I. KITCHEN EQUIPMENT CONTRACTOR TO PERFORM INITIAL STARTUP OF EQUIPMENT AND COORDINATE TRAINING BY K.E.C. AND/OR APPROVED MANUFACTURER REPRESENTATIVES | STAINLESS STEEL GAS LINE COVER | STAINLESS— | STAINLESS STEEL WALL FLASHING SYMBOL - M TO EXTEND 18" BEYOND HOOD | IN. 20 GA. 304 S/S. WALL FLASHING | |
| ALL DELIVERY DOORS TO BE SELF CLOSING. RECOMMENDED TO OVERHEAD AIR CURTAINS | HAT THEY ALSO INCLUDE | C. PROVIDE MASONRY PADS WITH TROWELED SMOOTH AND LEVEL TOP AS REQUIRED D. PROVIDE COVED BASE-MOLDING OR COVED INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL | K.E.C. TO PROVIDE STAINLESS STEEL (304 16 GA.) CORNER GUARDS ON ALL CORNERS AND ENDS OF WALLS AS NOTED BY HC.DESIGN | WALK IN COOLER/FREEZER PANELS | r BUMPER RAIL: - 1 | STAINLESS STEEL BUMPER RAIL - MIN. 16 GA. 30 | 04 S/S. WITH STAINLESS STEEL | |
| MESH SCREENS TO BE ON ALL OPERABLE WINDOWS GENERAL CONTRACTOR TO ARRANGE FOR EQUIPMENT TO BE | NSTALLED IN PROPER ORDER TO | VERTICAL SURFACES FOR KITCHEN FLOOR E. ALL CURBS OR RECESSED MAT AREA DIMENSIONS ARE FINISHED DIMENSIONS. VERIFY FACE AND | K.E.C. TO PROVIDE STAINLESS STEEL (AT LEAST 304 20 GA.) WALL CLADDING (WITH PATTERN AS NOTED) IN ALL AREAS NOTED BY HC.DESIGN. HC.DESIGN RECOMMENDS AN OVERHANG OF EIGHTEEN INCHES ON ALL AREAS IN CONTACT WITH HOOD, VERIEY WITH ALL APPLICABLE AH. | STAINLESS STEEL TRIM | puncou= | WALL CLADDING BELOW TO FLOOR | | |
| INCLUDE: CLADDING INSTALLED BEHIND AND ABOVE TYPE 1 EXINSTALLED PRIOR TO COILING DOOR/WINDOW OPENINGS | | TOP FINISHES (WHERE CURB IS EXPOSED) WITH ARCHITECT, GENERAL CONTRACTOR OR OWNER F. ALL CURBS HEIGHTS TO BE TAKEN FROM FINISHED FLOOR TO TOP OF FINISHED CURB | EIGHTEEN INCHES ON ALL AREAS IN CONTACT WITH HOOD. VERIFY WITH ALL APPLICABLE AHJ EXISTING EQUIPMENT COORDINATION: IT IS THE SOLE RESPONSIBILITY OF THE KEC TO LOCATE AND VERIEV OWNER FOLUMENT SIZES. PIMENSIONS AND LOADS PRIOR TO ORDERING ANY | DIAMOND PLATE | — F—DIAMOND TREAD— | .100 ALUMINUM DIAMOND TREAD | | |
| | | G. ALL CURB DIMENSIONS ARE TAKEN FROM FINISHED WALL TO FACE OF FINISHED CURB, OR FROM | AND VERIFY OWNER EQUIPMENT SIZES, DIMENSIONS AND LOADS PRIOR TO ORDERING ANY AND/OR ALL COMPONENTS INTENDED FOR USE WITH OWNER ITEMS. MODIFICATIONS AND NEW ACCESSORIES TO BE COORDINATED BY KEC WITH THE OWNER ITEMS | HATCH PATTERNS USED ON ELEVATIONS ARE TO DISTINGUISH BETWEEN SURFACES. HATCH DOES NOT INDICATE PATTERNS TO BE APPLIED TO SURFACES UNLESS OTHERWISE STATED. | - | NOTE: BACKING TO BE 2"X 6" OR 2"X 12" BLOCK | | |
| | | H. SEE PLUMBING PLAN(S) FOR EXACT LOCATION OF FLOOR SINKS AND FLOOR DRAINS. VERIFY WITH | IT IS THE SOLE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR, VERIFY AND ADJUST EQUIPMENT GAS TYPE AND ELEVATION | | | NOTE: PROVIDE REINFORCING IN WALL TO SUF VERIFY ADDITIONAL MOUNTING REQUIREMENT | | |
| | | PLUMBING CONTRACTOR | REQUIREMENTS (REGULATOR AND ORIFICES) FOR OPTIMAL PERFORMANCE TO SITE SPECIFICATIONS REGARDLESS OF ORIGINAL GAS TYPE/ELEVATION PROVISION. EXTRA CHARGES RESULTING FROM KEC NOT CONFIRMING GAS TYPE AND ELEVATION PRIOR TO FOODSERVICE | | | | | |
| | | l N | EQUIPMENT ORDERING WILL BE PAID BY THE KITCHEN EQUIPMENT CONTRACTOR M. KEC TO INSTALL FLOOR FASTENED EQUIPMENT IN POSITION ONLY ONCE POSITION IS REVIEWED | | | | | |
| | | | BY HC.DESIGN STAFF DURING FINAL PUNCH VISIT. FAILURE TO ALIGN EQUIPMENT TO ANSUL DROPS, HOOD CLEARANCES, AND DRAIN POUR PATHS WILL RESULT IN KEC TO MOVE EQUIPMENT, RE-FASTEN TO FLOOR, REPLACE TILE, AND REPAIR FLOOR IN PREVIOUS LOCATION ALL AT KEC | | | | | |
| | | | EXPENSE | | | | | |
| | | | | | | | | |
| | CONS | SULTANTS | ARCHITECT OF RECORD STAMP | Office of FOODSERVICE COVER PAGE | Pha | | Project Title UPGRADE NUTRITION AND FOOD | Project Numl VA ##VA ## |
| | MECHAN | IICAL / ELECTRICAL: FOOD SERVICE: | A/E: | Construction | · F | PERMIT / BID SET | SERVICE DESIGN | SGA ##22-2 |
| | WF | WEST PLAINS ENGINEERING, INC. Albertson Engineering Inc. hc.design foundamening, better by design. | | and Facilities | | | | 2 |
| | WEST PLAIN: | S ENGINEERING, INC. ALBERTSON ENGINEERING INC. HC DESIGN | STONE GROUP TO STONE GROUP | Management Approved: | | EUD UEEIGIVI HOL OMAN | Location HOT SPRINGS, SD | Drawing Nun |
| | 1750 RAND R RAPID CITY, S Phone: 605-34 | SD 57702 RAPID CITY, SD 57702 BOZEMAN, MT 59718 | ARCHITECTS MICHAEL MILES 707871 MICHAEL MILES 707871 MICHAEL MILES 707871 | VA U.S. Department of Veterans Affairs | | FOR OFFICIAL USE ONLY | Issue Date Checked Drawn 06.13.2023 MM AMT | FS |
| Revision# Description | · | | II "// " TANTO COL" , W | | | | NG 9.3 101.23 | 1.1 |



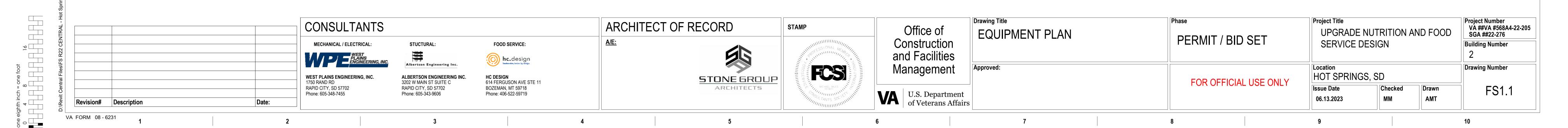


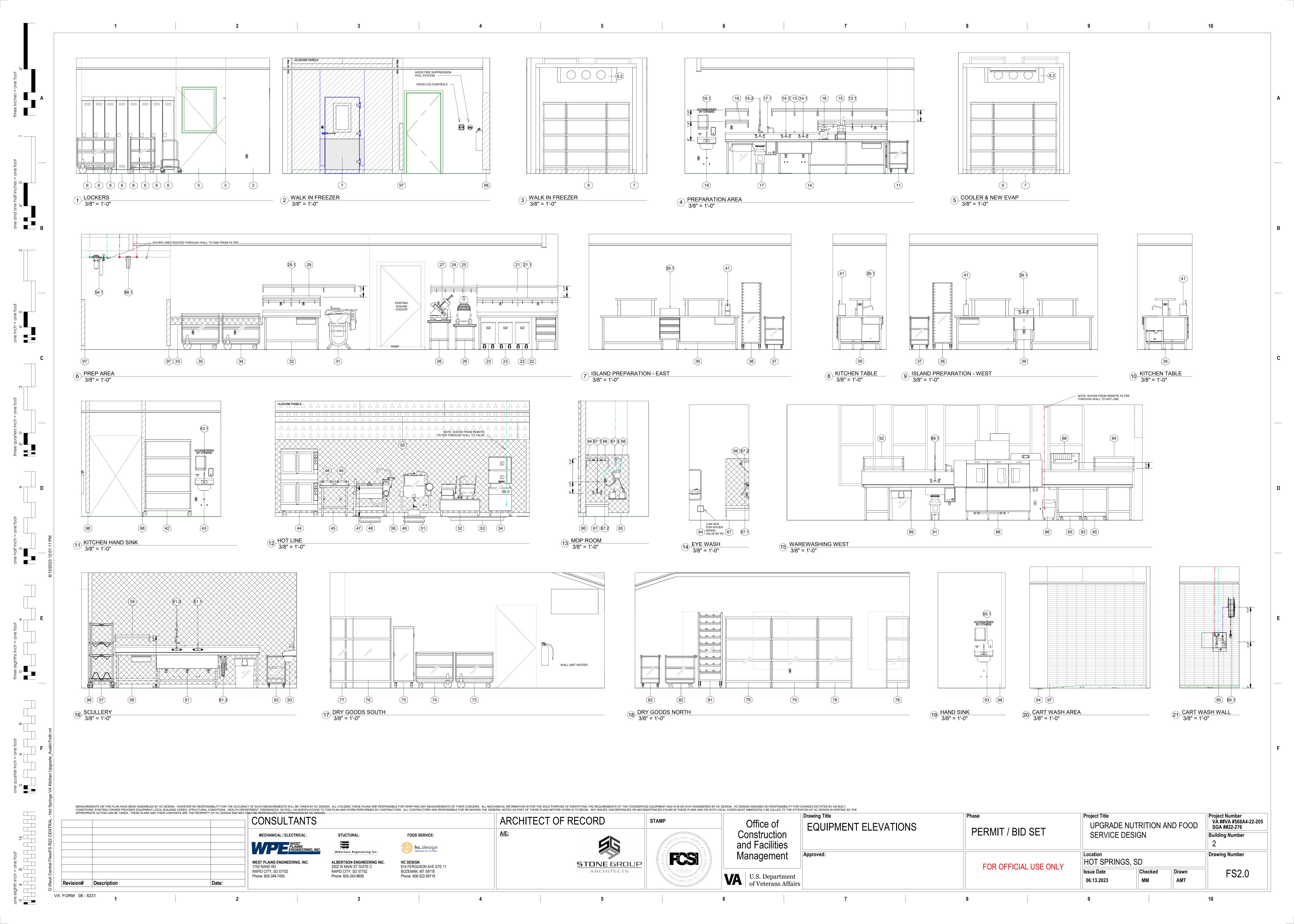
EQUIPMENT SCHEDULE EQUIPMENT NO SOURCE QTY UNIT MODEL REMARKS DESCRIPTION MANUFACTURER KEC 1 LOT BUMPER RAIL 45 DEGREE TOP FABRICATED OWNER 1 EA CART LAKESIDE OWNER 1 EA CART LAKESIDE 1 EA RECEIVING SCALE PENN SCALE 1 EA SCALE STAND, MOBILE 121517BM NEW AGE 8 EA LOCKER KEC BRADLEY LENOXLOCKERS 1 LOT WALK IN FREEZER WALK IN FREEZER SEE SPECIFICATIONS AMERICAN PANEL 1 EA REMOTE CONDENSER UNIT REMOTE CONDENSING RACK SYSTEM KEC KEC 1 LOT SHELVING METRO SEE SPECIFICATIONS NOT USED NOT USED NOT USED 1 EA BUSSING UTILITY TRANSPORT CART, METAL LAKESIDE NOT USED NOT USED NOT USED 1 LOT SHELVING, WALL MOUNTED EAGLE GROUP SEE SPECIFICATIONS 1 EA WORK TABLE, WITH PREP SINK(S) KEC EAGLE GROUP SMPT30144 1 EA FOOD PROCESSOR, BENCHTOP / COUNTERTOP ROBOT COUPE R2DICE KSM8990ER 1 EA PLANETARY MIXER KITCHENAID KEC SS-200-15A-CC101 1 EA DISPOSER INSINKERATOR KEC 1 LOT SHELVING, WALL MOUNTED EAGLE GROUP SEE SPECIFICATIONS 1 EA HAND SINK EAGLE GROUP NOT USED NOT USED NOT USED LOT SHELVING, WALL MOUNTED EAGLE GROUP SEE SPECIFICATIONS 1 EA WORK TABLE, STAINLESS STEEL TOP EAGLE GROUP T3684STE-BS 3 EA INGREDIENT BIN PIPER PRODUCTS 47-75 1 EA POT RACK EAGLE GROUP WSP1248 1 EA PLANETARY MIXER HOBART HL200-1STD 1 EA EQUIPMENT STAND EAGLE GROUP MET2430S HOBART HS7-1R 1 EA FOOD SLICER, ELECTRIC 1 EA EQUIPMENT STAND EAGLE GROUP MET2430S KEC EAGLE GROUP SEE SPECIFICATIONS 1 LOT SHELVING, WALL MOUNTED NOT USED NOT USED NOT USED 1 EA MIXER, VERTICAL CUTTER VCM HOBART HCM450-62 1 EA WORK TABLE, STAINLESS STEEL TOP EAGLE GROUP T3060SE-BS 1 LOT BUMPER RAIL KEC FABRICATED 45 DEGREE TOP OWNER 1 EA CART LAKESIDE 35 OWNER 1 EA CART LAKESIDE 949 NOT USED NOT USED 1 EA BUSSING UTILITY TRANSPORT CART, METAL LAKESIDE 38 OWNER 2 EA BUN PAN RACK NEW AGE KEC 1 EA WORK TABLE, S/S TOP, WITH SINK EAGLE GROUP T48120SE NOT USED NOT USED NOT USED KEC 1 EA CAN OPENER EDLUND 203/115V KEC METRO SEE SPECIFICATIONS 1 LOT SHELVING KEC 1 EA HAND SINK EAGLE GROUP 1 EA CONVECTION OVEN, ELECTRIC BLODGETT MARK V-100 DBL 1 EA EQUIPMENT STAND, FOR COUNTERTOP COOKING EAGLE GROUP KEC T3036SGS 2 EA INDUCTION RANGE, COUNTERTOP
1 EA TILTING SKILLET BRAISING PAN, ELECTRIC COOKTEK 601701 KEC CLEVELAND SEL30TR KEC KEC 1 EA FLOOR TROUGH IMC TEDDY ASFT-2430-PFG-ADA OWNER 1 EA KETTLE, DIRECT STEAM, TILTING CLEVELAND KDP-25-T NOT USED NOT USED NOT USED KEC 1 EA FLOOR TROUGH ASFT-2430-PFG-ADA IMC TEDDY 1 EA TWIN 6 GAL KETTLE CABINET ASSEMBLY, DIRECT-STEAM
1 EA FLOOR TROUGH KEC SD1050K66 CLEVELAND TRE-60-PFG-ADA KEC IMC TEDDY OWNER 1 EA CONVECTION STEAMER, STEAM COIL CLEVELAND 24CSM DIV 23 1 LOT TYPE 1 EXHAUST SYSTEM W/ FIRE SUPPRESSION FABRICATED STAINLESS STEEL - FULL HEIGHT KEC 1 LOT WALL CLADDING 1 EA METROMAX I, MOBILE DRYING RACK KEC METRO PR48VX3-XDR 1 LOT WALL CLADDING KEC FABRICATED STAINLESS STEEL - FULL HEIGHT 1 LOT SHELVING, WALL MOUNTED SEE SPECIFICATIONS EAGLE GROUP NOT USED NOT USED NOT USED KEC 1 EA THREE (3) COMPARTMENT SINK EAGLE GROUP FN2860-3-30-14/3 OWNER 1 EA BUSSING UTILITY TRANSPORT CART, METAL LAKESIDE NOT USED NOT USED NOT USED 1 EA EYE WASH STATION EW-7656WC T&S BRASS 1 LOT WALL CLADDING STAINLESS STEEL - 60" KEC FABRICATED 1 EA MOP BROOM HOLDER
1 EA MOP SINK KEC EAGLE GROUP US0824-16/3 KEC TSB-200 OWNER 1 EA CHEMICAL DISPENSER MOP SINK CLEANING DISPENSER NOT USED NOT USED NOT USED KEC 1 LOT SHELVING METRO SEE SPECIFICATIONS OWNER 1 EA CART LAKESIDE OWNER 1 EA CART LAKESIDE OWNER 1 EA MEAL TRAY DELIVERY CART 101141820 CRES COR OWNER 1 LOT SHELVING METRO SEE SPECIFICATIONS 77 OWNER 1 LOT SHELVING METRO SEE SPECIFICATIONS

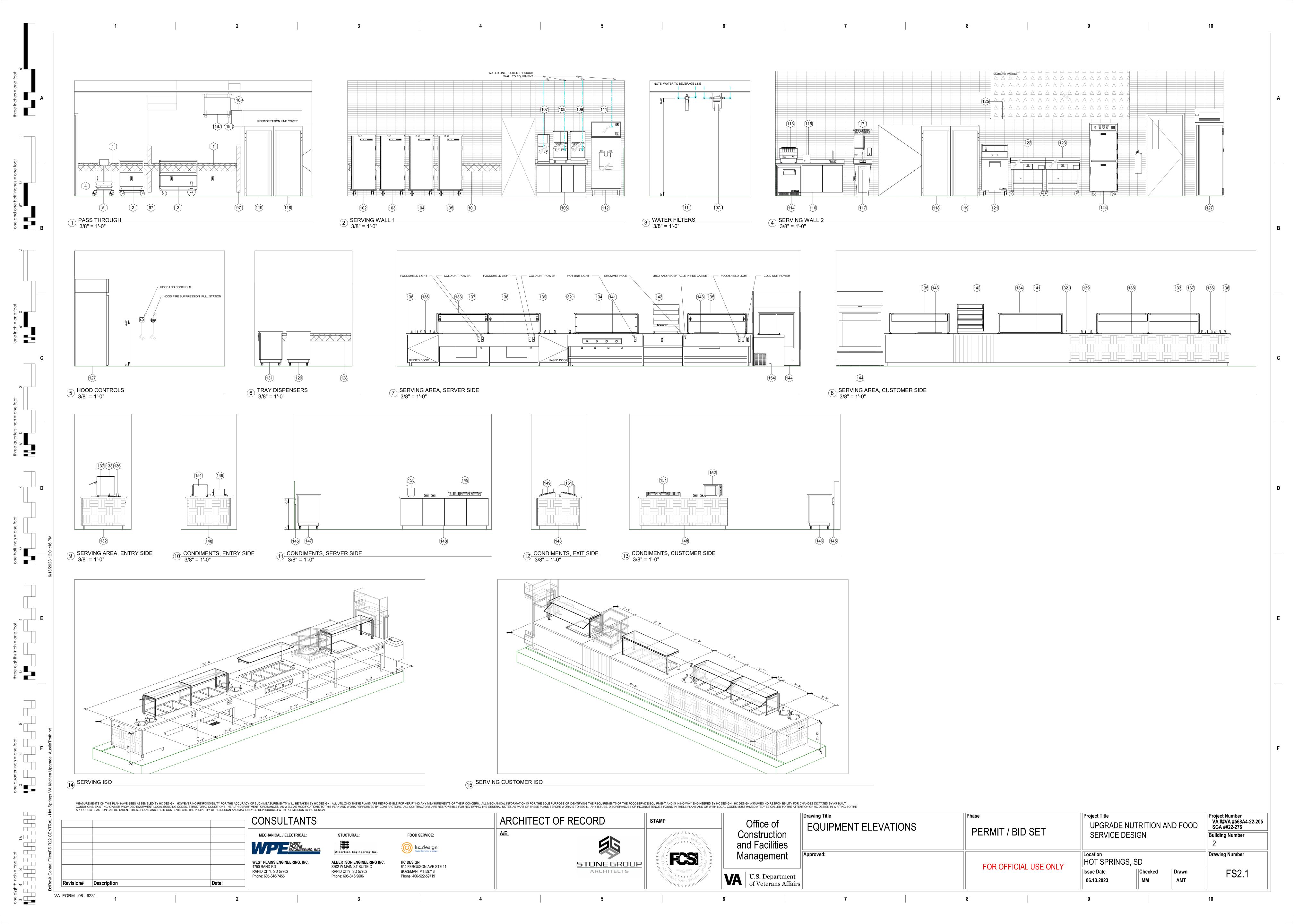
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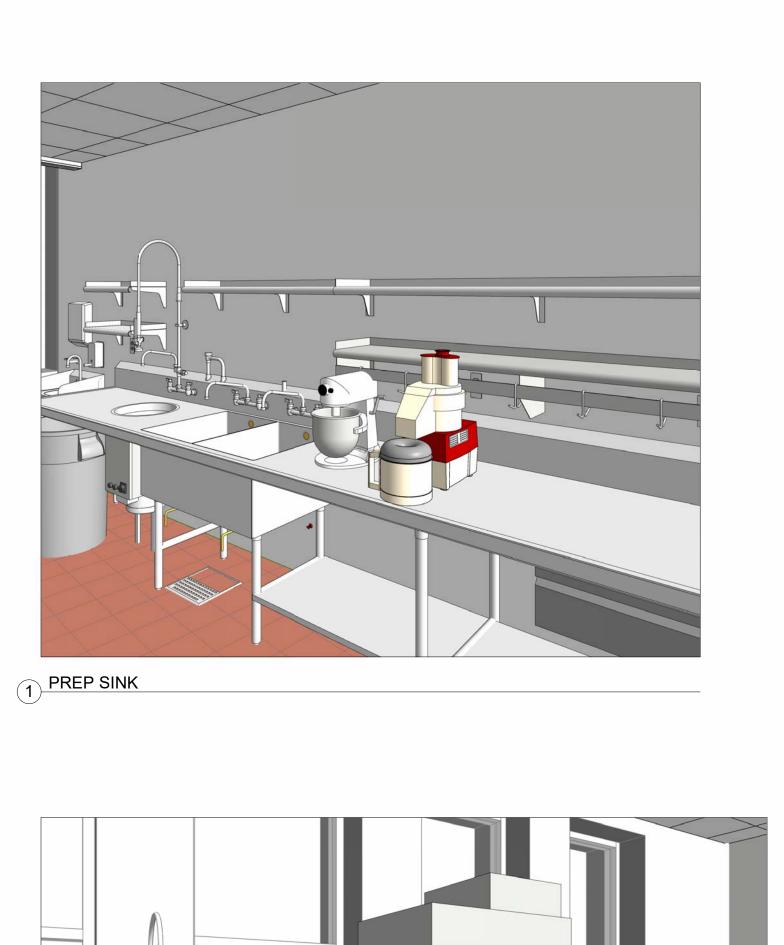
| TEM | | | | | | | EQUIPMENT |
|-------------|----------------|----------|-----------|--|------------------------------|-------------------------------------|--------------------|
| NO | SOURCE | QTY | UNIT | DESCRIPTION | MANUFACTURER | MODEL | REMARKS |
| 78 | OWNER | 1 | LOT | | METRO | | SEE SPECIFICATIONS |
| 79 | OWNER | 1 | LOT | | METRO | NOTHER | SEE SPECIFICATIONS |
| 80 81 | OWNER | 1 | EA | NOT USED CAN STORAGE RACK | NOT USED NEW AGE | NOT USED 1250 | |
| 82 | OWNER | 3 | EA | BUSSING UTILITY TRANSPORT CART, METAL | LAKESIDE | 522 | |
| 83 | KEC | 1 | EA | CLEAN DISHTABLE | EAGLE GROUP | CDTR-108-14/3 | |
| 84 | KEC | 1 | EA | DISHTABLE SORTING SHELF | EAGLE GROUP | 606301 | |
| 85 | KEC | 2 | EA | DOLLY, DISHRACK | CAMBRO | CD2020615 | |
| 86 | KEC | 1 | EA | WATER SOFTENING SYSTEM | HOBART | WS-40 | |
| 87 | KEC | 1 | EA | TRAY DRYER | SAN-AIRE | PD-100-M | |
| 88 | OWNER | 1 | EA | DISHWASHER, CONVEYOR TYPE, VENTLESS | HOBART | CLPS66ENVL+BUILDUP | |
| 89 90 | KEC | 1 | EA | SOILED DISHTABLE NOT USED | EAGLE GROUP NOT USED | SDTL-108-14/3 NOT USED | |
| 91 | KEC | 1 | EA | DISPOSER | INSINKERATOR | SS-200-7-CC101 | |
| 92 | KEC | 1 | EA | DISHTABLE SORTING SHELF | EAGLE GROUP | 606301 | |
| 93 | KEC | 1 | EA | HAND SINK | EAGLE GROUP | HSA-10 | |
| 94 | KEC | 1 | EA | FLOOR TROUGH | IMC TEDDY | TRE-60-PFG-ADA | |
| 95 | KEC | 1 | EA | HOSE REEL CONTROL BOX | FISHER | 1801 | |
| 96 | 1/50 | | | NOT USED | NOT USED | NOT USED | |
| 97 | KEC KEC | 6 | EA | CORNER GUARD | FABRICATED FABRICATED | CORNER - 48" | SEE SPECIFICATIONS |
| 98 9-100 | NEC . | / | EA | CORNER GUARD NOT USED | NOT USED | WALL END - FULL HEIGHT NOT USED | SEE SPECIFICATIONS |
| 101 | KEC | 1 | LOT | BUMPER RAIL | FABRICATED | 45 DEGREE TOP | |
| 102 | KEC | 1 | EA | MEAL TRAY DELIVERY CART | DINEX | DXPICTPT20 | |
| 103 | KEC | 1 | EA | MEAL TRAY DELIVERY CART | DINEX | DXPICTPT20 | |
| 104 | KEC | 1 | EA | MEAL TRAY DELIVERY CART | DINEX | DXPICTPT20 | |
| 105 | KEC | 1 | EA | MEAL TRAY DELIVERY CART | DINEX | DXPICTPT20 | |
| 106 | KEC | 1 | LOT | SERVING COUNTER, UTILITY | NATIONWIDE FABRICATION | CASEWORK | |
| 107 | OWNER | 1 | EA | BEVERAGE DISPENSER, COLD BREW AND COFFEE | BUNN | 34400.0001 | |
| 108 109 | OWNER OWNER | 1 | EA EA | JUICE DISPENSER, ELECTRIC JUICE DISPENSER, ELECTRIC | BUNN BUNN | 37300.0000 37300.0000 | |
| 110 | OVVINLIX | ' | LA | NOT USED | NOT USED | NOT USED | |
| 111 | OWNER | 1 | EA | ICE MAKER, CUBE-STYLE | MANITOWOC | IDT0300A | |
| 112 | OWNER | 1 | EA | ICE DISPENSER | MANITOWOC | SFA292 | |
| 113 | KEC | 1 | EA | TOASTER | HATCO | TQ-1800H | |
| 114 | KEC | 1 | EA | UNDERCOUNTER REFRIGERATOR | TRUE MFG GENERAL FOODSERVICE | TUC-24-HC | |
| 115 | KEC | 1 | EA | POP-UP TOASTER | WARING | WCT702 | |
| 116 | KEC | 1 | LOT | SERVING COUNTER, UTILITY | NATIONWIDE FABRICATION | CASEWORK | |
| 117 118 | KEC KEC | 1 | EA EA | HAND SINK ROLL-THRU REFRIGERATOR | EAGLE GROUP UTILITY REFRIG | HSA-10-FA-PE RTR-30-SS-1S-1S-X-L | |
| 119 | KEC | 1 | EA | ROLL-THRU HEATED CABINET | UTILITY REFRIG | RTHC-30-SS-1S-1S-L | |
| 120 | ILC | | | NOT USED | NOT USED | NOT USED | |
| 121 | KEC | 1 | EA | MEGA TOP SANDWICH / SALAD PREPARATION REFRIGERATOR | TRUE MFG GENERAL FOODSERVICE | TSSU-27-12M-B-HC | |
| 122 | OWNER | 1 | EA | GRIDDLE, ELECTRIC, COUNTERTOP | ACCUTEMP | EGF2083A3650-T1 | |
| 123 | OWNER | 1 | EA | GRIDDLE, ELECTRIC, COUNTERTOP | ACCUTEMP | EGF2083A3650-T1 | |
| 124 | KEC | 1 | EA | RETHERMALIZER/HOLDING CABINET | FWE | RH-18HO | |
| 125 | DIV 23 | 1 | LOT | | LITH ITY DEEDIG | DID 20 CC 4C H | |
| 127 128 | KEC KEC | 1 | EA LOT | ROLL-IN REFRIGERATOR BUMPER RAIL | UTILITY REFRIG FABRICATED | RIR-30-SS-1S-H 45 DEGREE TOP | |
| 129 | KEC | 1 | EA | RACK DISPENSERS | LAKESIDE | 998 | |
| 130 | | <u> </u> | | NOT USED | NOT USED | NOT USED | |
| 131 | KEC | 1 | EA | RACK DISPENSERS | LAKESIDE | 998 | |
| 132 | KEC | 1 | LOT | SERVING COUNTER | NATIONWIDE FABRICATION | VALDURA | |
| 133 | KEC | 2 | EA | SNEEZE GUARD, STATIONARY | PREMIER METAL & GLASS | TM2N-A | |
| 134 | KEC | 1 | EA | SNEEZE GUARD, STATIONARY | PREMIER METAL & GLASS | TM2N-F | |
| 135 | KEC | 1 | EA | SNEEZE GUARD, STATIONARY | PREMIER METAL & GLASS | TM2N-A | |
| 136 | KEC KEC | 2 | EΑ | PLATE AND DISH DISPENSER, DROP-IN COLD FOOD WELL UNIT, DROP-IN, REFRIGERATED | LAKESIDE ATLAS METAL | 501025 WCMD-C-3 | |
| 137 138 | KEC | 1 | EA EA | COLD FOOD WELL UNIT, DROP-IN, REFRIGERATED | ATLAS METAL ATLAS METAL | WCMD-C-3 | |
| 139 | KEC | 2 | EA | PLATE AND DISH DISPENSER, DROP-IN | LAKESIDE | 601025 | |
| 140 | | | | NOT USED | NOT USED | NOT USED | |
| 141 | KEC | 1 | EA | HOT FOOD WELL UNIT, DROP-IN, ELECTRIC | ATLAS METAL | WIH-4 | |
| 142 | KEC | 1 | EA | DISPLAY MERCHANDISER, HEATED, FOR MULTI-PRODUCT | HATCO | GR3SDS-27D | |
| 143 | KEC | 1 | EA | FROST TOP / COLD SLAB, DROP IN | ATLAS METAL | WF-2 | |
| 144 | KEC | 1 | | OPEN DISPLAY MERCHANDISER | FEDERAL INDUSTRIES | LMDM4878SC | |
| 145 | KEC | 1 1 | | BUMPER RAIL PACK DISPENSEDS | FABRICATED LAKESIDE | 45 DEGREE TOP | |
| 146 147 | OWNER OWNER | 1 | EA EA | RACK DISPENSERS RACK DISPENSERS | LAKESIDE | 998 | |
| 147 | KEC | 1 | LOT | SERVING COUNTER, UTILITY | NATIONWIDE FABRICATION | CASEWORK | |
| 149 | KEC | 1 | EA | SILVERWARE DISPENSER | STERIL-SIL | E1-DDA-3V | |
| 150 | | - | | NOT USED | NOT USED | NOT USED | |
| 151 | KEC | 1 | EA | SILVERWARE DISPENSER | STERIL-SIL | E1-DDA-3V | |
| 152 | KEC | 1 | EA | MICROWAVE OVEN | ACP | RMS10TS | |
| 153 | KEC | 1 | EA | POP-UP TOASTER | WARING | WCT702 | |
| 154 | KEC | 1 | EA | ICE CREAM STORAGE CABINET | MASTER-BILT | DC-2S | |

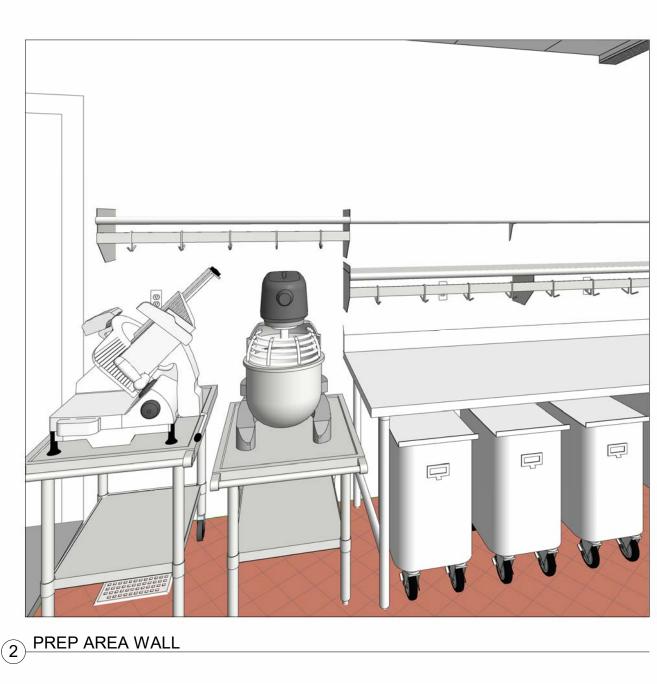
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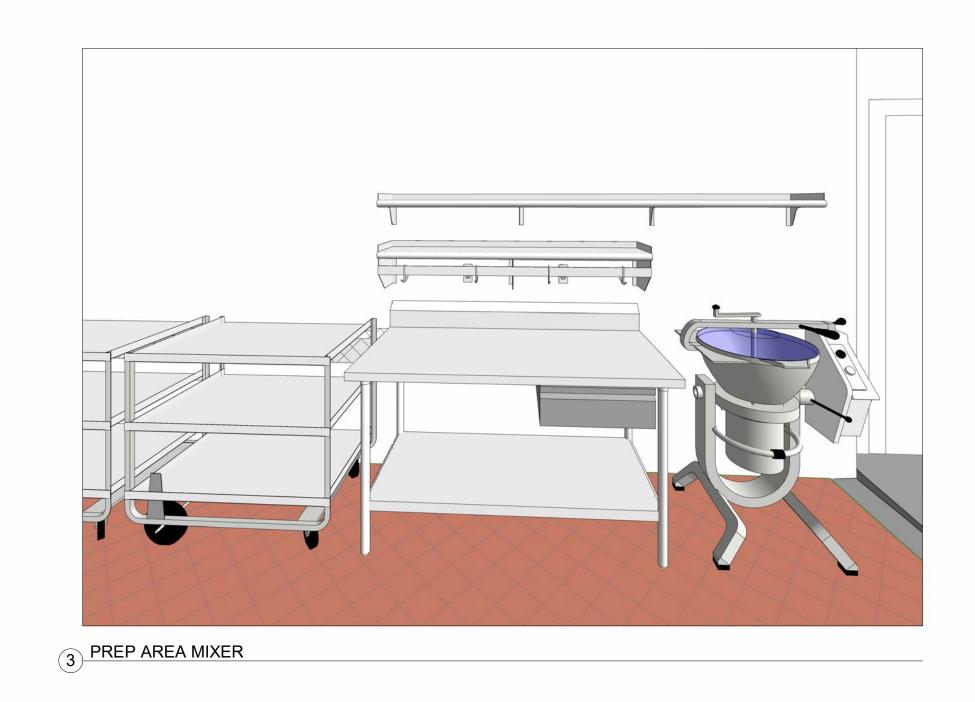




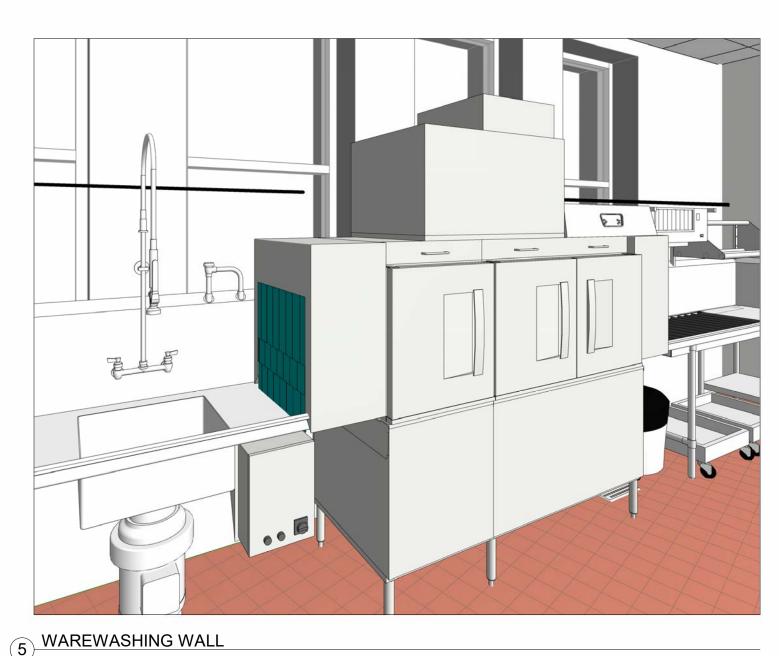




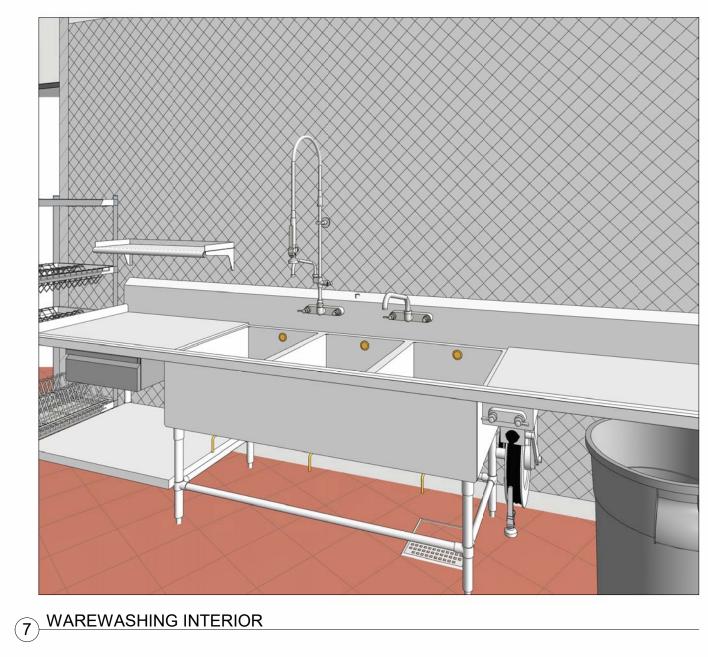


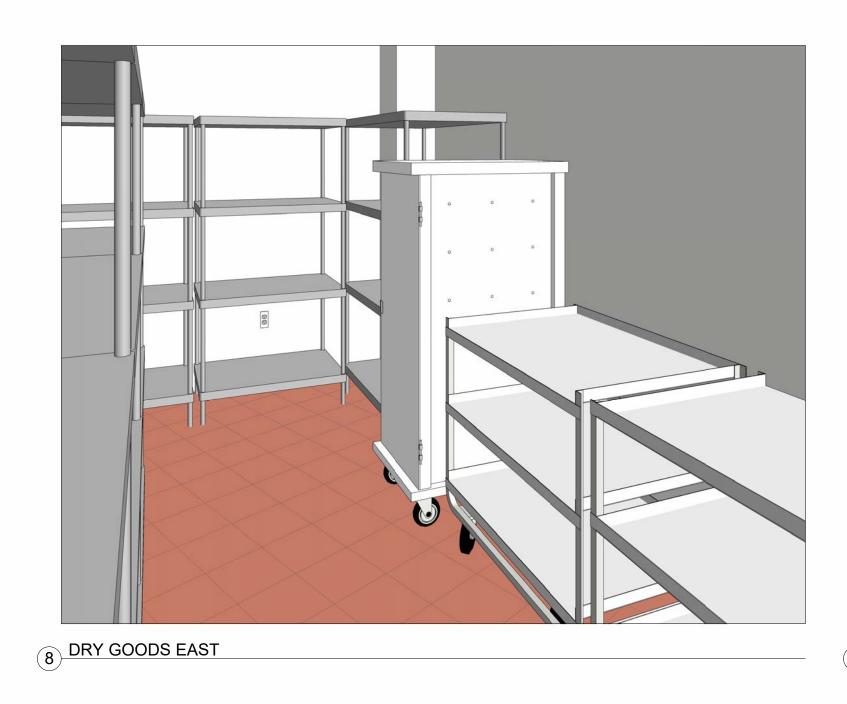










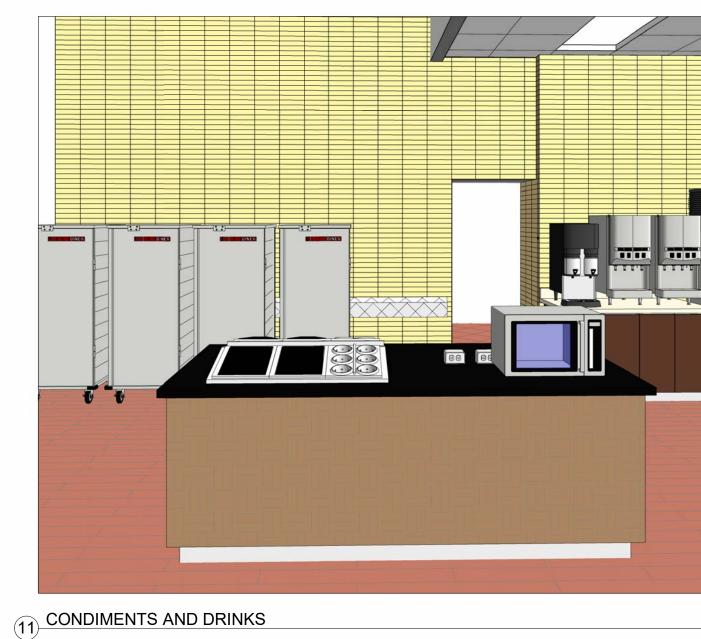




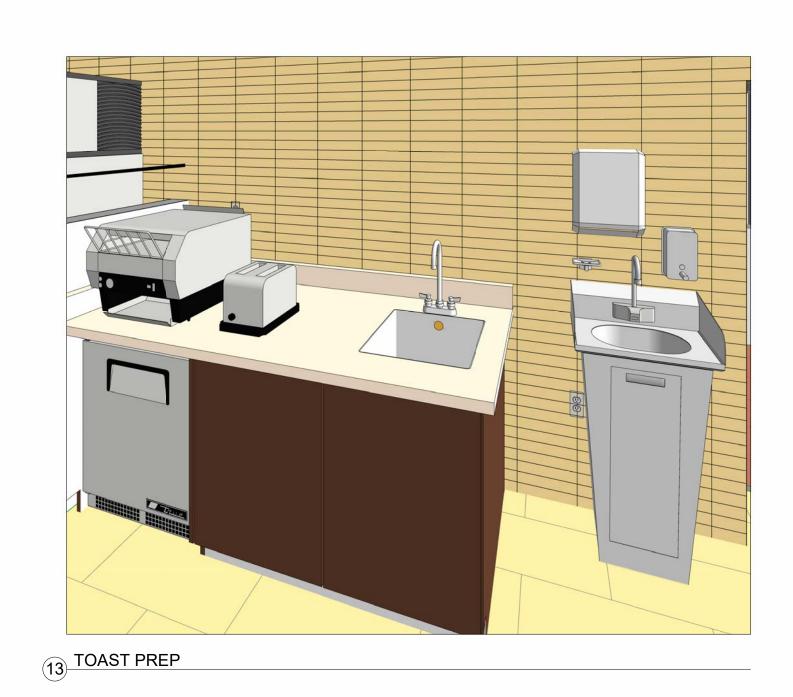


one eighth inch = one foot

0 4 8 16

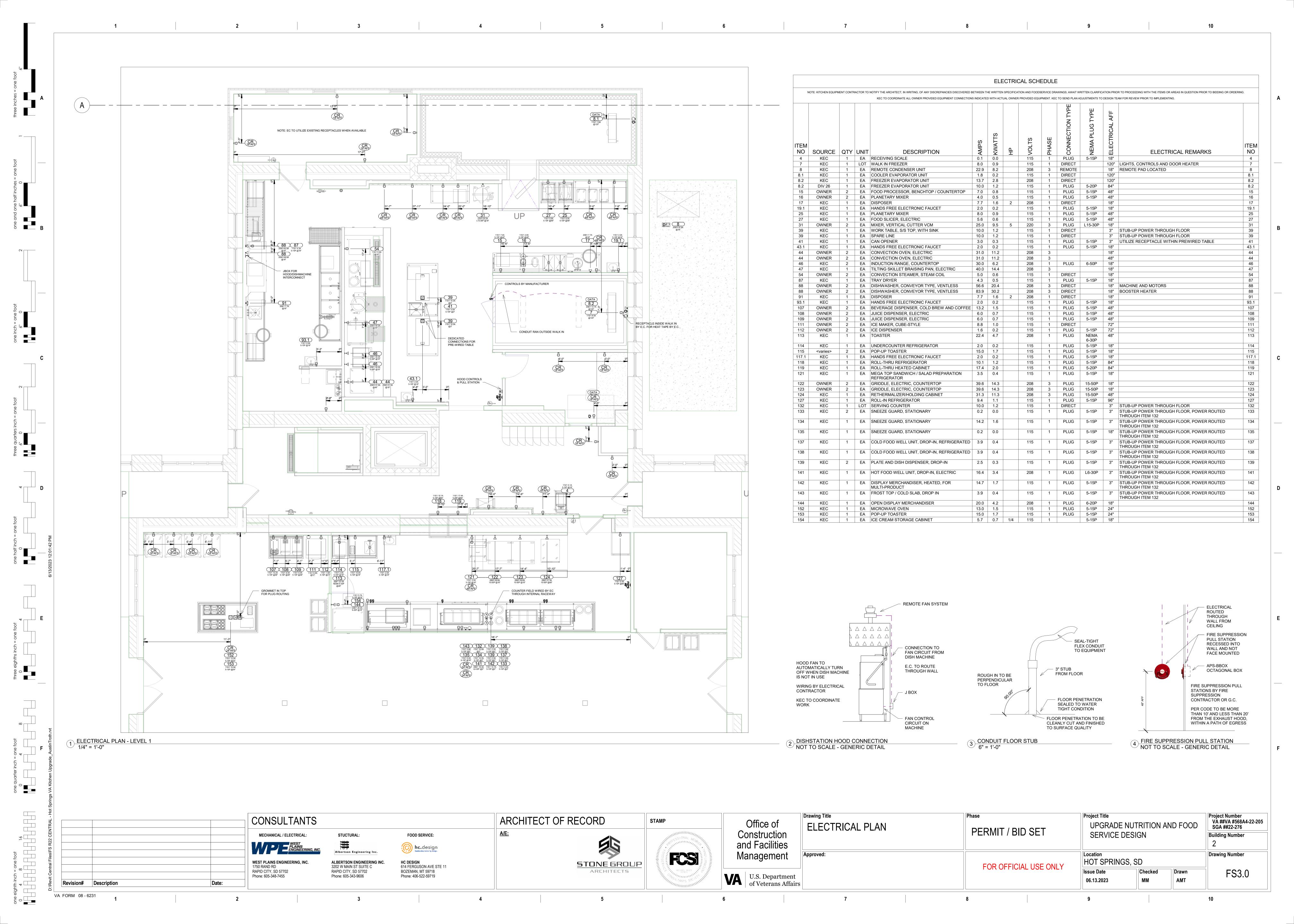


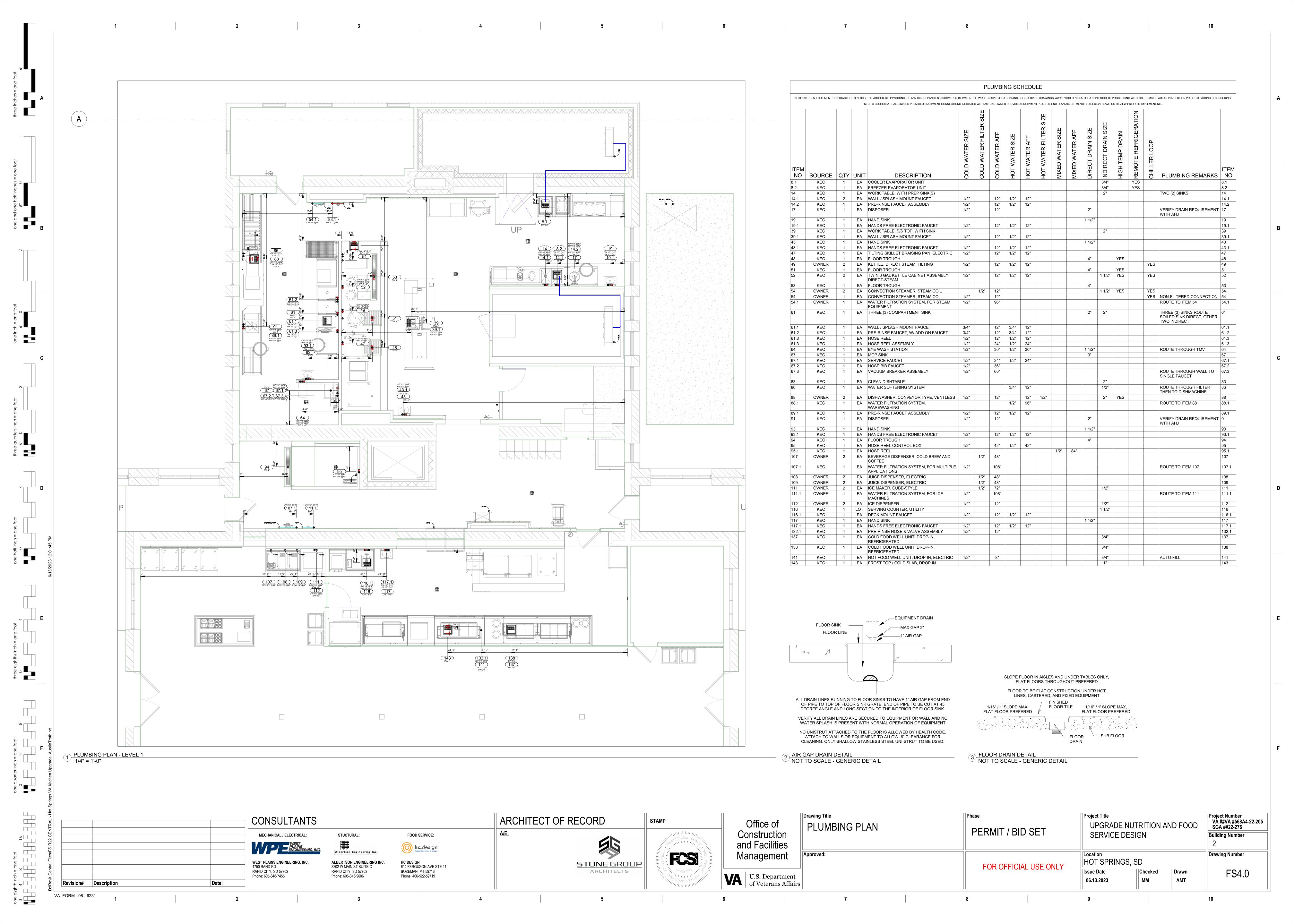


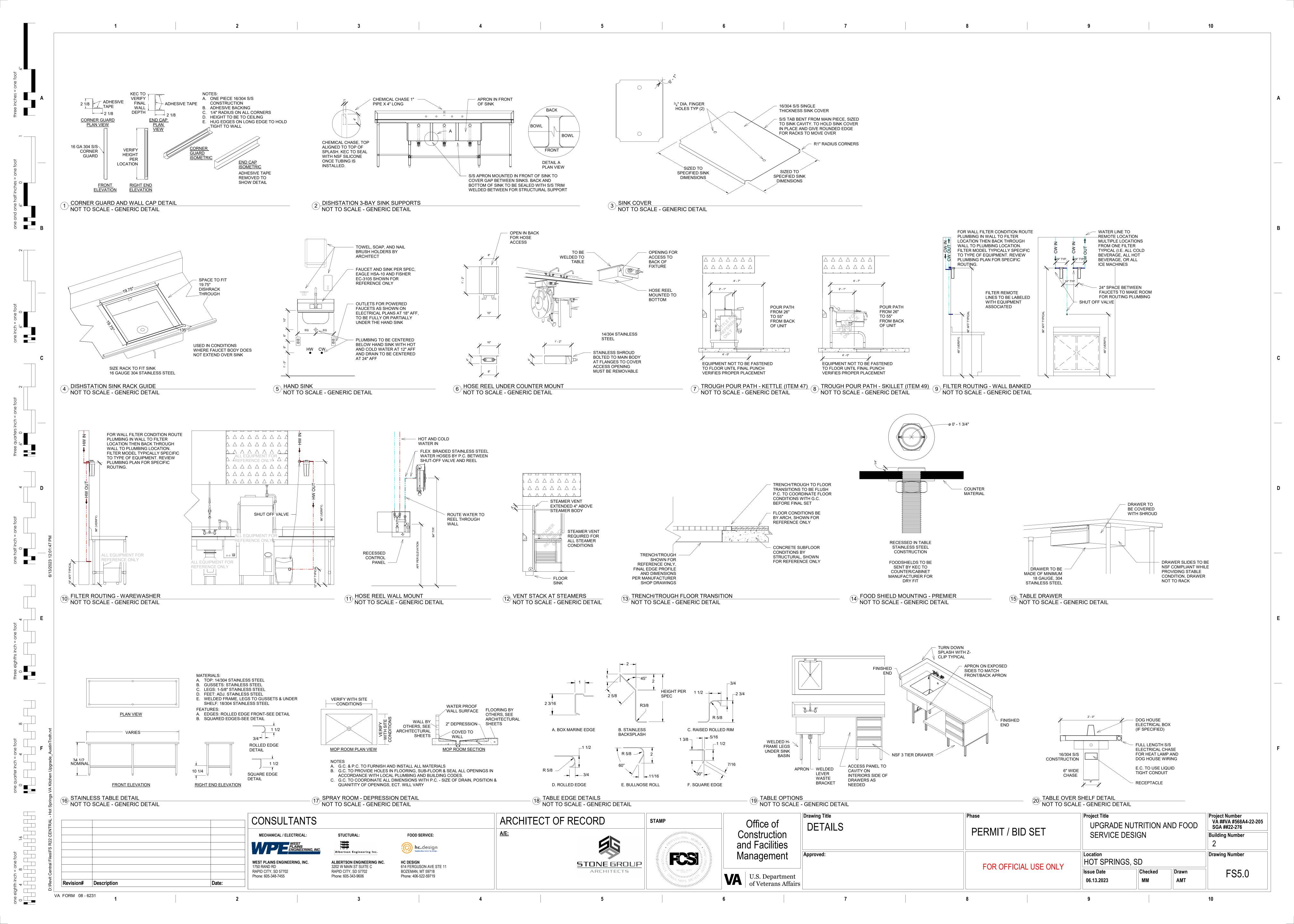


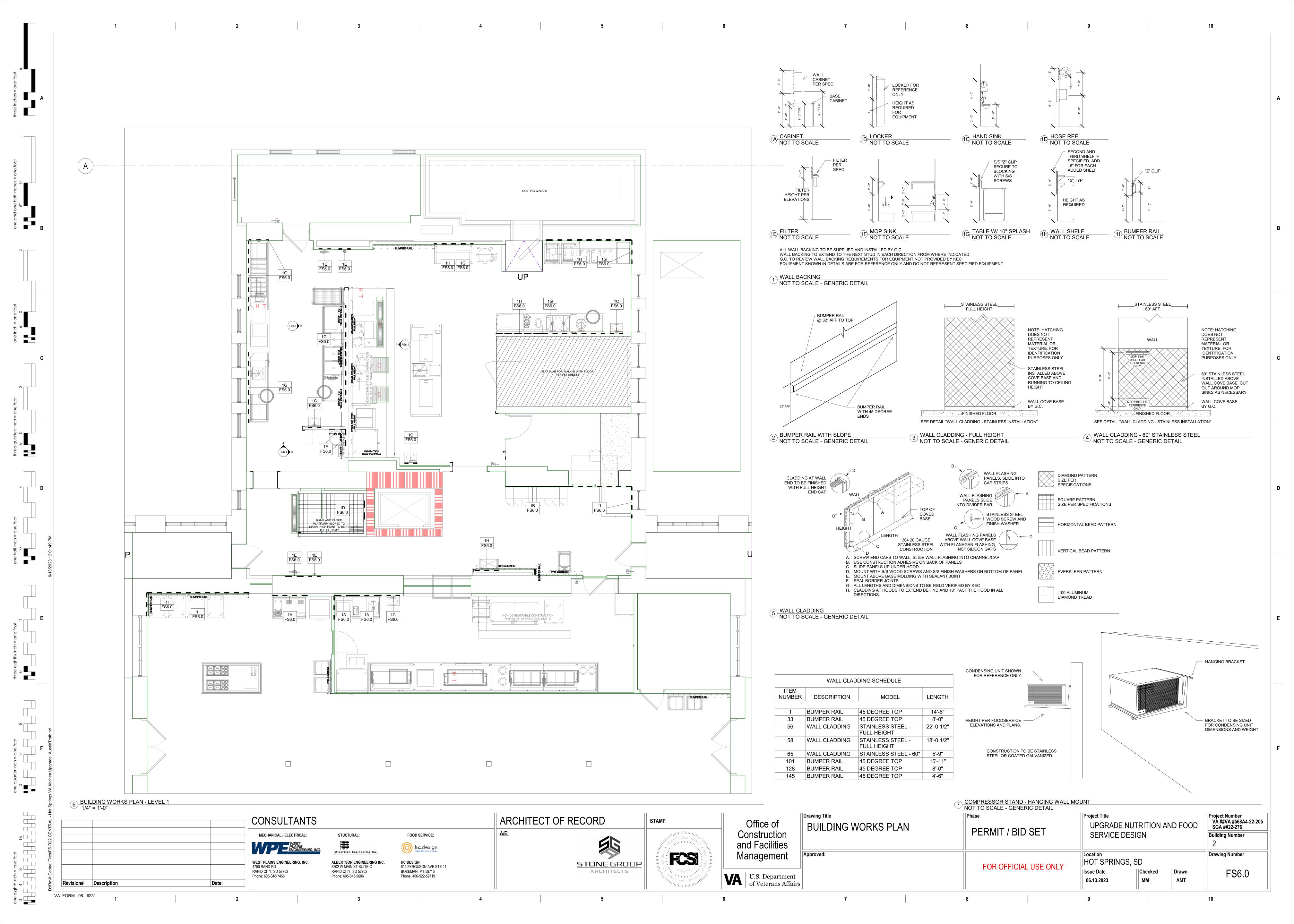
| MEASUREMENTS ON THIS PLAN HAVE BEEN ASSEMBLED BY HC DESIGN. HOWEVER NO RESPONSIBILITY FOR THE REQUIREMENTS OF THE REQUIREMENTS |
|--|
| CONDITIONS, EXISTING/ OWNER PROVIDED EQUIPMENT, LOCAL BUILDING CODES, STRUCTURAL CONDITIONS, HEALTH DEPARTMENT, ORDINANCES, AS WELL AS MODIFICATIONS TO THE SEPONSIBLE FOR REVIEWING THE GENERAL NOTES AS PART OF THESE PLANS AND OR WITH LOCAL CODES MUST IMMEDIATELY BE CALLED TO THE ATTENTION OF HC DESIGN IN WRITING SO THE |
| APPROPRIATE ACTION CAN BE TAKEN. THESE PLANS AND THEIR CONTENTS ARE THE PROPERTY OF HC DESIGN AND MAY ONLY BE REPRODUCED WITH PERMISSION BY HC DESIGN. |

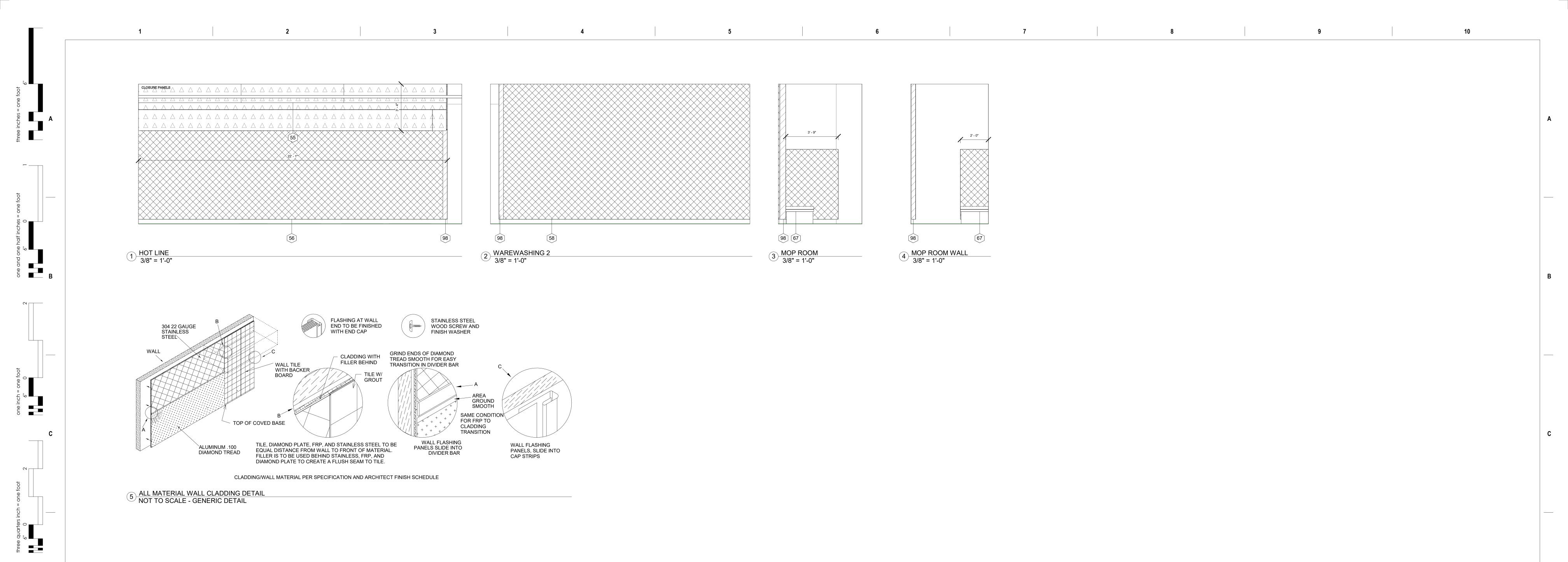












Revision# Description Date:

one eighth inch = one foot

0 4 8 16

VA FORM 08 - 6231

MECHANICAL / ELECTRICAL:

WEST PLAINS ENGINEERING, INC.

1750 RAND RD
RAPID CITY, SD 57702
Phone: 605-348-7455

STUCTURAL:

Albertson Engineering Inc.

ALBERTSON ENGINEERING INC.
3202 W MAIN ST SUITE C
RAPID CITY, SD 57702
Phone: 605-343-9606

FOOD SERVICE:

hc.design
Foodbervilve, better by Unsign.

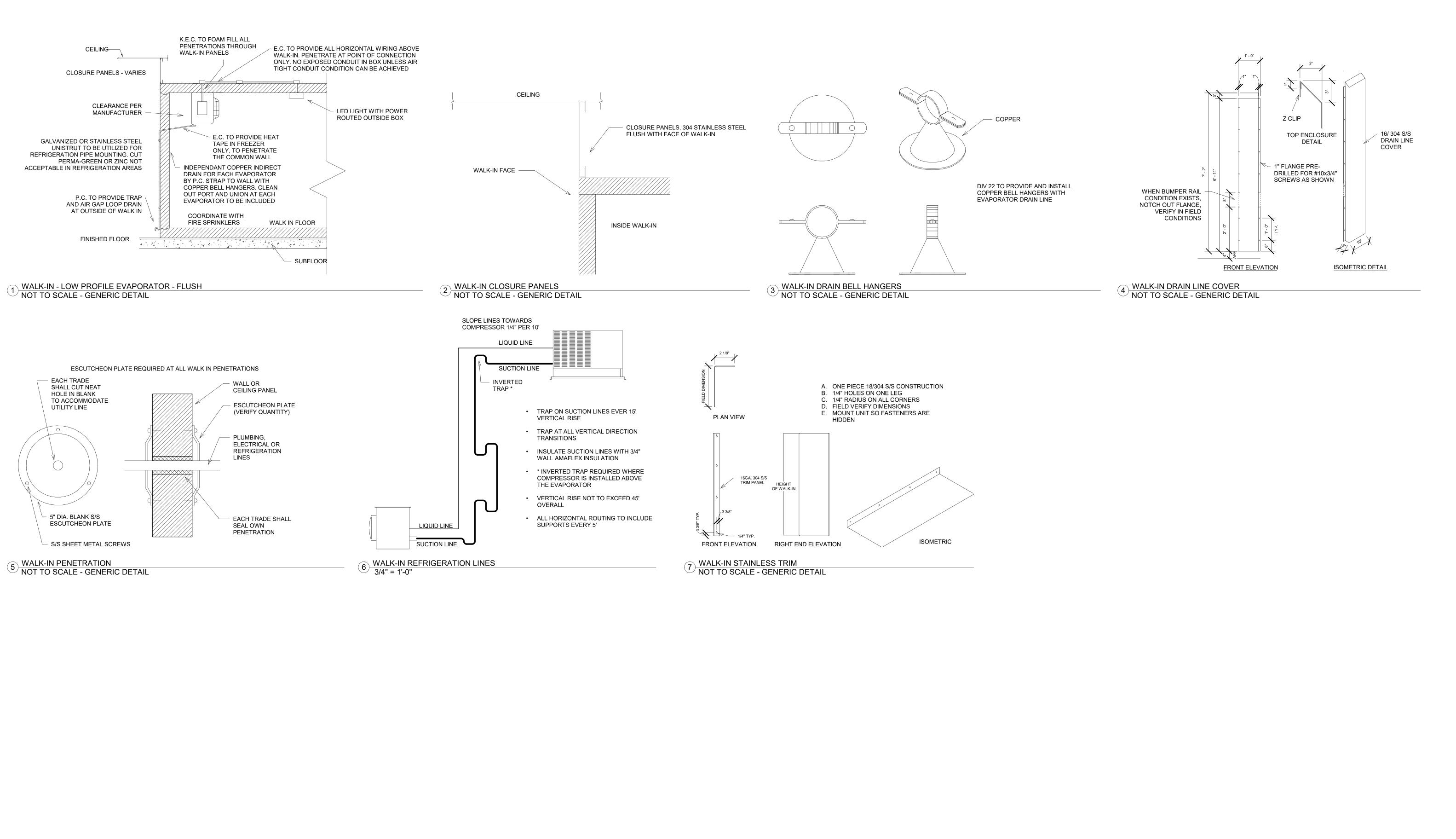
HC DESIGN
614 FERGUSON AVE STE 11
BOZEMAN, MT 59718
Phone: 406-522-59719







Project Title Project Number VA ##VA #568A4-22-205 SGA ##22-276 Drawing Title UPGRADE NUTRITION AND FOOD **BUILDING WORKS PLAN** PERMIT / BID SET SERVICE DESIGN **Building Number Drawing Number** Location HOT SPRINGS, SD FOR OFFICIAL USE ONLY Checked Issue Date FS6.1 Drawn AMT 06.13.2023 MM



one

one eighth inch = one foot

0 4 8 16

KEC NOTES-WALK IN COOLER / FREEZER

- WALK-IN COOLER/FREEZER UNIT TO BE PROVIDED, ASSEMBLED AND INSTALLED BY KEC
- 2. COMPRESSORS, BLOWERS AND EVAPORATORS TO BE PROVIDED AND INSTALLED BY KEC
- 3. DIVISION 22 (MECHANICAL) TO PROVIDE AND INSTALL CONDENSATE WASTE LINES FROM BLOWER/EVAPORATORS TO FLOOR SINK
- 4. KEC TO PROVIDE AND INSTALL SUCTION AND LIQUID LINES FROM COMPRESSORS TO BLOWER/EVAPORATORS
- 5. ELECTRICAL CONTRACTOR (DIVISION 26) TO PROVIDE AND INSTALL HEAT TAPE AND INSULATION FOR CONDENSATE WASTE LINE FROM
- HEAT TAPE AND INSULATION FOR CONDENSATE WASTE LINE FROM FREEZER BLOWER/EVAPORATOR
- 6. DEFROST HEATER IS PART OF THE WALK IN SYSTEM PROVIDED BY KEC
 7. DIVISION 26 (ELECTRICAL) TO PROVIDE ALL ELECTRICAL ROUGH IN'S
- AND FINAL CONNECTION

 8. THERE ARE NO EXTRA LIGHTS IN THE WALK IN COMPARTMENTS. THE LIGHTS ARE PART OF THE DOOR/SWITCHING PACKAGE (DOOR AREA
- 9. PREFERRED METHOD OF DRAIN LINE MOUNTING IS WITH THE USE OF COPPER BELL HANGERS. GALVANIZED OR STAINLESS STEEL
- COPPER BELL HANGERS. GALVANIZED OR STAINLESS STEEL UNISTRUT TO BE UTILIZED FOR REFRIGERATION PIPE MOUNTING. CUT PERMA-GREEN OR ZINC NOT ACCEPTABLE IN REFRIGERATION AREAS

MECHANICAL NOTES-WALK IN COOLER / FREEZER

. WALK IN EQUIPMENT SHOWN IN PLUMBING ROUGH-IN DETAIL IS FOR

 CONNECTIONS SHOWN RELATE TO THE PRIME SPECIFIED EQUIPMENT ONLY (SPEC 114000). ALTERNATE EQUIPMENT REQUIREMENTS MAY VARY, KITCHEN EQUIPMENT SUPPLIER IS RESPONSIBLE FOR CHANGES CAUSED BY ALTERNATE EQUIPMENT
 SEE ARCHITECTURAL AND/OR MECHANICAL PLANS (DIVISION 22) FOR

REFERENCE PURPOSES ONLY

- SEE ARCHITECTURAL AND/OR MECHANICAL PLANS (DIVISION 22) FOR ANY ADDITIONAL PLUMBING REQUIREMENTS
 WALK IN FOLIDMENT ROLIGH-IN'S AND FINAL CONNECTIONS TO
- 4. WALK IN EQUIPMENT ROUGH-IN'S AND FINAL CONNECTIONS TO UTILITIES, DRAINS AND INTERCONNECTIONS OF PLUMBING ARE THE PESPONSIBILITY OF DIVISION 22 (MECHANICAL)
- RESPONSIBILITY OF DIVISION 22 (MECHANICAL)

 5. FINAL PLUMBING UTILITY CONNECTIONS TO INCLUDE, BUT NOT LIMITED TO, ALL REQUIRED MATERIALS SUCH AS STOPS, VALVES,
- LIMITED TO, ALL REQUIRED MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, TURNOFFS, PIPING & TUBING COVERS AND INTERCONNECTION LINES
- DIVISION 22 (MECHANICAL) TO FURNISH AND INSTALL THE FOLLOWING ACCORDING TO NATIONAL AND LOCAL CODES, AS THEY MAY APPLY:
 A. WASTE SERVICE FROM CONNECTION POINT ON BLOWER/
- EVAPORATOR TO FLOOR SINK (FOLLOW THE DRAIN LINE ROUTE SHOWN ON PLAN). DRAIN LINE MUST SLOPE TO FLOOR SINK, FREEZER DRAIN LINE TO PASS THROUGH COOLER AS A SINGLE LINE SEPARATE FROM COOLER DRAIN LINE

 B. ANY WALK IN WALL PANEL PENETRATION FOR WASTE LINES
- MUST BE SEALED TO BE WATER TIGHT TO PREVENT LOSS OF COOLING FROM EITHER SECTION. PENETRATIONS MUST BE COVERED WITH A SILVER COLORED METAL ESCUTCHEON PLATE OF APPROPRIATE SIZE FOR A SNUG FIT
- C. FLOOR SINK DRAINS FOR WALK IN COOLER, FREEZER, BLOWER, EVAPORATOR DRAIN LINES MUST BE INSTALLED FLUSH TO OR RECESSED 1/4 INCH INTO THE FINISHED KITCHEN AREA FLOOR
- D. FLOOR SINKS FOR THIS APPLICATION SHOULD BE MADE OF WHITE ENAMEL COATED CAST IRON WITH REMOVABLE HALF DOME DRAIN HOLE COVER AND REMOVABLE GRATING OF SAME MATERIAL AS THE FLOOR SINK. FLOOR DRAIN COVERS MUST BE EASILY REMOVED WITHOUT TOOLS FOR CLEANING. FLOOR SINKS SHOULD NOT EXTEND ABOVE THE FLOOR LINE. SEE PLAN
- FOR CONFIGURATION

 E. INDIRECT WASTE LINES FOR WALK-IN OR ANY OTHER INDIRECT WASTED EQUIPMENT, SHALL BE CONFIGURED TO HAVE AN AIR GAP OF NO LESS THAN 1 INCH OR NO MORE THAN 2 INCHES BETWEEN THE THE INDIRECT WASTE LINE SHOULD NOT EXTEND
- INTO THE FLOOR SINK BODY

 F. INDEPENDENT WASTE LINES TO BE INSTALLED FOR EACH
 EVAPORATOR, TO INCLUDE INDEPENDENT P-TRAP FOR EACH

ELECTRICAL NOTES-WALK IN COOLER/FREEZER

- WALK IN EQUIPMENT SHOWN IN ELECTRICAL ROUGH-IN DETAIL IS FOR REFERENCE PURPOSES ONLY
- 2. CONNECTIONS SHOWN RELATE TO THE PRIME SPECIFIED EQUIPMENT ONLY (SPEC 114000). ALTERNATE EQUIPMENT
- REQUIREMENTS MAY VARY, KITCHEN EQUIPMENT SUPPLIER
 RESPONSIBLE FOR CHANGES CAUSED BY ALTERNATE EQUIPMENT.
 3. SEE ARCHITECTURAL AND/OR ELECTRICAL PLANS (DIVISION 26 FOR
- ANY ADDITIONAL REQUIREMENTS

 WALK IN FOLIDMENT ROUGH-IN'S AND FINAL CONNECTIONS TO
- 4. WALK IN EQUIPMENT ROUGH-IN'S AND FINAL CONNECTIONS TO UTILITIES AND INTERCONNECTIONS OF ELECTRICAL ARE THE RESPONSIBILITY OF DIVISION 26 (ELECTRICAL)
- 5. FINAL ELECTRICAL UTILITY CONNECTIONS TO INCLUDE ALL REQUIRED MATERIALS, MAY INCLUDE BUT NOT LIMITED TO, JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, INTERCONNECTIONS FOR LIGHTS AND CONTROLS ON EQUIPMENT, HEAT TAPE FOR FREEZER BLOWER/ EVAPORATOR DRAIN, DISCONNECTS FOR REFRIGERATION COMPRESSORS AND OTHER CONNECTIONS AS REQUIRED FOR
- FOR PROPER CONNECTIONS

 6. ELECTRICAL SYSTEM IS DESIGNED FOR: 120V/1-PH/3 WIRE/60 HERTZ & 208V/1-PH/3-PH/3 OR 4 WIRE/60 HERTZ

PROPER CONNECTIONS AND OTHER CONNECTIONS AS REQUIRED

- 7. ALL ELECTRICAL BOXES, CONNECTIONS AND COVER PLATES IN WALK IN AREA MUST BE WATERPROOF
- 8. ALL ELECTRICAL CONNECTIONS AND SYSTEMS MUST MEET OR EXCEED CURRENT NATIONAL AND/OR LOCAL ELECTRICAL CODE REQUIREMENTS
- 9. WALK IN EVAPORATOR TO BE INSTALLED WITH AN AUTOMATIC SHUT OFF, ACTIVATED VIA DOOR MAGNETIC SWITCH. WIRING TO BE
- PROVIDED BY DIVISION 26 (ELECTRICAL)

 10. DIV 26 TO PROVIDE AND INSTALL CONTROL WIRE BETWEEN
- CONDENSING UNITS (OR RACK SYSTEM) TO EVAPORATOR UNITS AS NEEDED PER MANUFACTURER

 11. ALL ELECTRICAL CONNECTIONS/CONDUIT TO BE ROUTED OUTSIDE
- ALL ELECTRICAL CONNECTIONS/CONDUIT TO BE ROUTED OU BOX IN ALL CONDITIONS EXCEPT OUTDOOR BOXES.
- 12. HEAT TAPE TO BE INSTALLED ALONG FREEZER DRAIN LINE AND PENETRATE ALL WALLS UNTIL OUTSIDE THE FREEZER AREA.
- 13. BUILDING AUTOMATION SYSTEM TO MONITOR THE WALK IN COOLERS AND FREEZERS WITH ALERT TO FACILITIES THROUGH DDC
- TEMPERATURE SENSOR

 14. MASTER/SLAVE EVAPORATOR CONDITIONS REQUIRE LOW VOLTAGE CONTACT WIRE BETWEEN UNITS, TO BE PROVIDED BY AND INSTALLED BY DIV 26 (ELECTRICAL)

| | CONSULTANTS | ONSULTANTS | | ARCHITECT OF RECORD | | STAMP | Office of | Drawing Title WALK IN DETAILS | Phase | Project Title UPGRADE NUTRITION AND FOOD | Project Number VA ##VA #568A4-22-205 SGA ##22-276 | |
|-----------------------|-------------|--|---|---|-------------|-------------|--|--|-----------|---|---|------------------------------------|
| | | MECHANICAL / ELECTRICAL: WEST | STUCTURAL: | FOOD SERVICE: | <u>A/E:</u> | STONE GROUP | SODSER THE LINE OF THE PARTY OF | Construction and Facilities Management | | PERMIT / BID SET | SERVICE DESIGN | Building Number 2 Drawing Number |
| | | WEST PLAINS ENGINEERING, INC. | Albertson Engineering Inc. ALBERTSON ENGINEERING INC. | hc.design Foundeerwites, bretter by thosign. HC DESIGN 614 FERGUSON AVE STE 11 | | | | | Approved: | | Location HOT SPRINGS, SD | |
| Revision# Description | Date: | RAPID CITY, SD 57702 Phone: 605-348-7455 | 3202 W MAIN ST SUITE C RAPID CITY, SD 57702 Phone: 605-343-9606 | 614 FERGUSON AVE STE 11 BOZEMAN, MT 59718 Phone: 406-522-59719 | | ARCHITECTS | MICHAEL MILES TOTAL TOTAL MILES TOTAL TOTAL MILES TOTA | U.S. Department of Veterans Affairs | | FOR OFFICIAL USE ONLY | Issue Date 06.13.2023 Checked MM AMT | FS7.0 |

