

HHS CHMHI FLEET GARAGE REPAIRS

CHEROKEE MENTAL HEALTH INSTITUTE
1251 W. CEDAR LOOP
CHEROKEE, IA 51012

RFB 947500-01
DAS PROJECT # 9475.00
GENESIS NO. 2514

CONTACT LIST

OWNERS:
STATE OF IOWA
DEPARTMENT OF ADMINISTRATIVE SERVICES
109 SE 13TH STREET
DES MOINES, IOWA 50319
DAS REPRESENTATIVE: JENNIE ELLIOTT

CLIENT:
CHEROKEE MENTAL HEALTH INSTITUTE
1251 W. CEDAR LOOP, CHEROKEE, IA 51012
CLIENT REPRESENTATIVE:
JASON PIGOTT, PLANT OPNS
PH: 712-225-6949

CONSTRUCTION MANAGER:
DCI GROUP, 220 SE 6TH STREET – SUITE 200
DES MOINES, IA 50309
PROJECT MANAGER: TRAVIS HOYLE
C: 515-244-5043

ARCHITECT:
EDWARD L. MATT, AIA
GENESIS ARCHITECTURAL DESIGN
939 OFFICE PARK ROAD
WEST DES MOINES, IOWA 50265
PH: 515-440-1681

ENGINEER:
DURANTEM MEP CONSULTING
3737 WOODLAND AVE. SUITE 420
WEST DES MOINES, IA 50266
CASEY ADAMS, P.E.
OFFICE: 515-452-8341

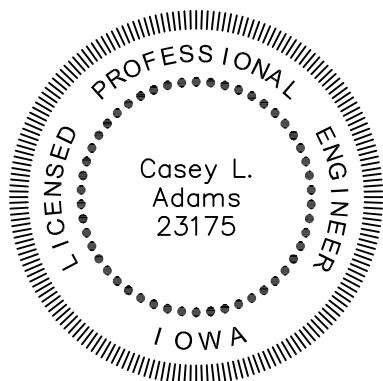
SHEET INDEX

ARCHITECTURAL


A0.0 COVER
A0.1 CODE & ABBREVIATION
A0.2 SITE PLAN
A1.0 GARAGE PLAN
A2.0 SECTION & ENLARGED PLANS
A2.1 DETAILS

ENGINEER

M0.0 MECHANICAL NOTES
M0.1 MECHANICAL SCHEDULES
M1.1 GARAGE MECHANICAL PLAN
E0.0 ELECTRICAL NOTES
E0.1 ELECTRICAL SCHEDULES
E0.2 ELECTRICAL PANEL SCHEDULE
E1.0 ELECTRICAL SITE PLAN
E1.1 GARAGE ELECTRICAL PLAN



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa


Signature 

Casey L. Adams Reg No. 23175


Date Issued: 10-17-2025

License Renewal Date: December 31, 2026

Pages or sheets covered by this seal:
M0.0, M0.1, M1.1, E0.0, E0.1, E0.2, E1.0, & E1.1



I hereby certify that the portion of this technical submission described below was prepared by me or under my supervisor and responsible charge. I am a duly registered Architect under the laws of the State of Iowa.

Signature  05761

Edward L. Matt Reg. No.

Pages or Sheets covered in part or whole by this seal:
A0.0, A0.1, A0.2, A1.0, A2.0 & A2.1.

Date Issued: 10-17-2025

ABBREVIATIONS

ADJ	ADJUSTABLE	OF/CI	OWNER FURNISHED/CONTR. INSTALLED
A/E	ARCHITECT / ENGINEER	OF/OI	OWNER FURNISHED/OWNER INSTALLED
AHJ	AUTHORITY HAVING JURISDICTION		
ALUM	ALUMINUM	OTS	OPEN TO STRUCTURE
AMT	AMOUNT		
ARCH	ARCHITECT	PARG	PARGING
ASPH	ASPHALT	PL	PLATE
		PNL	PANEL
BLK	BLOCK	PROT	PROTECTION
BSMT	BASEMENT	PRV	POWER ROOF VENTILATOR
BUR	BUILT UP ROOFING	PT	PAINT
		PV	PLUMBING VENT
		PVC	POLYVINYL CHLORIDE
CFLG	COUNTER FLASHING		
CHNLS	CHANNELS		
☉	CENTER LINE	R	RISER
COL	COLUMN	RA	ROOF ANCHOR
CRS	COURSES	R&R	REMOVE AND REPLACE
CSB	CONCRETE SPLASH BLOCK	RCJ	REINFORCED CONTROL JOINT
		RCMU	REINFORCED CONC. MASONRY JT.
DBL	DOUBLE	REBAR	REINFORCING BAR
DO	REPEAT	REF	ROOF EXHAUST FAN
DWG	DRAWING	REJ	ROOF EXPANSION JOINT
		REQ'D	REQUIRED
EF	EXHAUST FAN	RH	ROOF HATCH
EJF	EXPANSION JOINT FILLER	RM	ROOM
ELEC	ELECTRICAL	RO	ROUGH OPENING
ELEV	ELEVATION	RS	ROOF SLOPE
ENCL	ENCLOSURE	RV	ROOF VENT
EXP	EXPOSED OR EXPANSION		
		SCHED	SCHEDULE
FIN	FINISH	SECT	SECTION
FO	FINISH OPINING	SKL	SKY LIGHT
FR	FRAME	SL	SIDE LIGHT
		SS	STAINLESS STEEL
GND	GROUND	STOR	STORAGE
GYP	GYPSUM	SUSP	SUSPENDED
H	HIGH	T	TREAD
HDW	HARDWARE	T&B	TOP AND BOTTOM
HR	HOUR	T&G	TONGUE AND GROOVE
		TOC	TOP OF CURB, TOP OF CONC.
INT	INTERIOR	TOW	TOP OF WALL
KW	KEY WALL	UC	UTILITY CURB
		UNO	UNLESS NOTED OTHERWISE
LF	LINEAR FOOT	VENT	VENTILATOR
LW	LIGHT WEIGHT		
LT	LAMBS TONGUE		
		W/	WITH
MAU	MAKE UP AIR UNIT	W/O	WITHOUT
		WA	WALL ANCHOR
MFR	MANUFACTURER	WD	WOOD
MTD	MOUNTED	WDW	WINDOW
		WP	WATERPROOFING OR WALKPAD
NO	NUMBER	WS	WEATHER STRIP
NOM	NOMINAL	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
OC	ON CENTER		

CODE INFORMATION:

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE.

GROUP S-2 OCCUPANCY, WHICH IS FOR LOW-HAZARD STORAGE.

GARAGE WILL BE USED FOR STORING FLEET VEHICLES NOT PERSONAL VEHICLES.

EXISTING S-2, NO CHANGE OF OCCUPANCY, JUST UPGRADING WITH NEW DOORS AND ELECTRIC.

OSHA AND THE INTERNATIONAL BUILDING CODE (IBC), SPECIFY THAT REQUIRED EXITS MUST BE SIDE-HINGED DOORS THAT ARE EASILY OPENED FROM THE INSIDE. SIDE-HINGED DOOR IS THE ONLY TYPE OF DOOR THAT CAN BE USED AS A REQUIRED EXIT. OVERHEAD DOORS ARE NOT PERMITTED FOR THIS PURPOSE.

THE EXIT PATH AND THE DOOR ITSELF MUST REMAIN CLEAR AND UNOBSTRUCTED.

OCCUPANT LOAD FACTOR FOR PUBLIC PARKING GARAGES, WHICH IS TYPICALLY ONE OCCUPANT PER 200 SQUARE FEET.

$23.2' \times 114.67' = 2,660 \text{ SF} / 200 \text{ OLF} = 13.3 \text{ OR } 14 \text{ OCCUPANTS.}$

TRAVEL DISTANCE: < 100 FT.

FOR ONE EXIT TRAVEL DISTANCE CANNOT EXCEED 75 FT = 2 EXITS ARE REQUIRED.

< 5,000 SQ. FT. - AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED.

PROVIDE EXIT SIGNS OVER EACH EXIT DOOR.

PROVIDE LIGHTS OVER EXTERIOR EXIT DOORS TO ILLUMINATE MEANS OF EGRESS TO A PUBLIC WAY.

CO2 SENSORS WITH EXHAUSTING ARE REQUIRED FOR VEHICLE GARAGES.

939 OFFICE PARK RD., #101
WEST DES MOINES, IA 50265
TEL: 515-440-1681
FAX: 515-440-1687



HHS CHMHI FLEET GARAGE REPAIRS
CHEROKEE MENTAL HEALTH INSTITUTE
1251 W. CEDAR LOOP
CHEROKEE, IA 51012

CODE &
ABBREVIATION

DAS NO.
9475.00

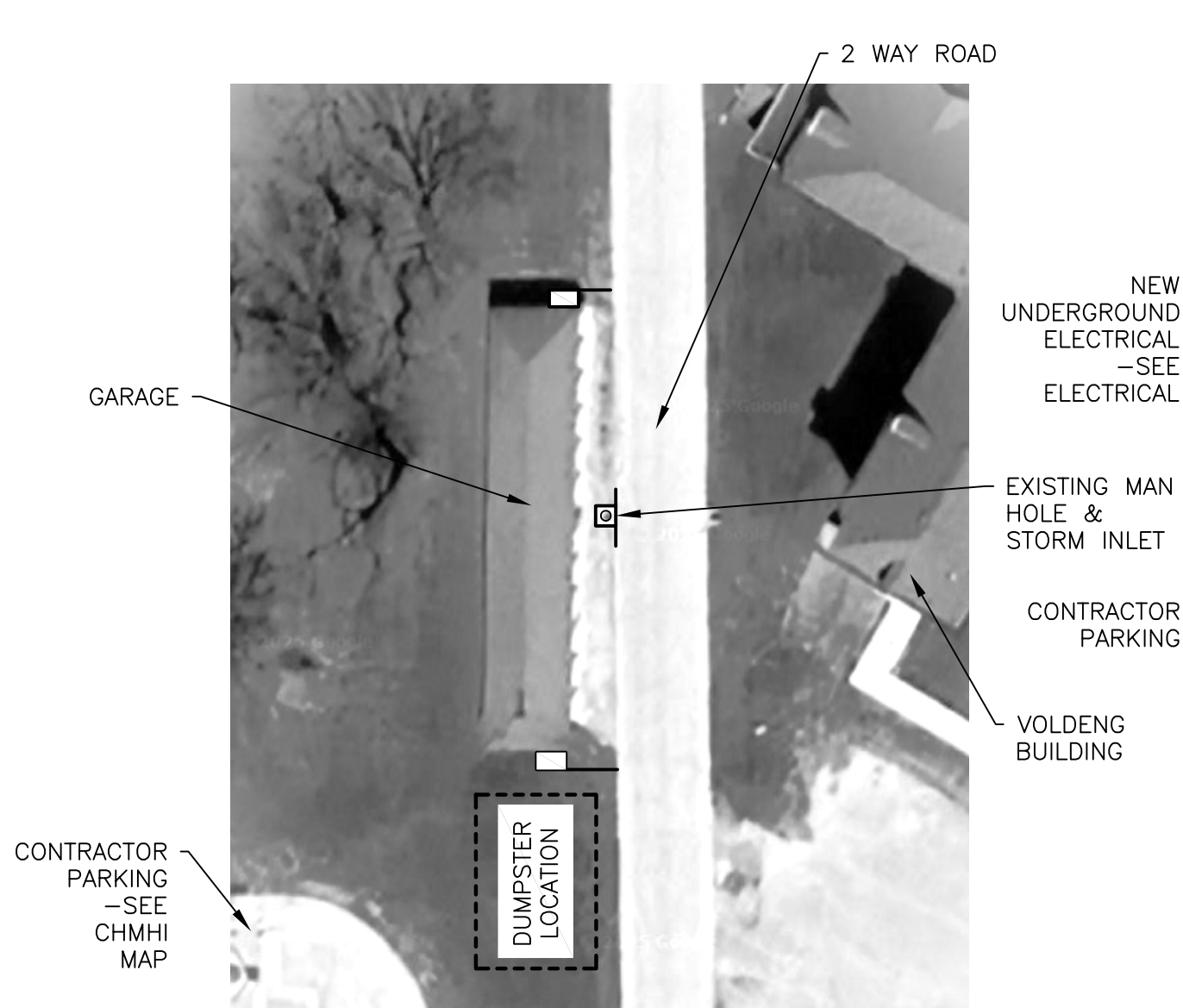
PROJECT NO.
2514

ISSUE DATE
10-17-2025

SHEET NUMBER
A0.1

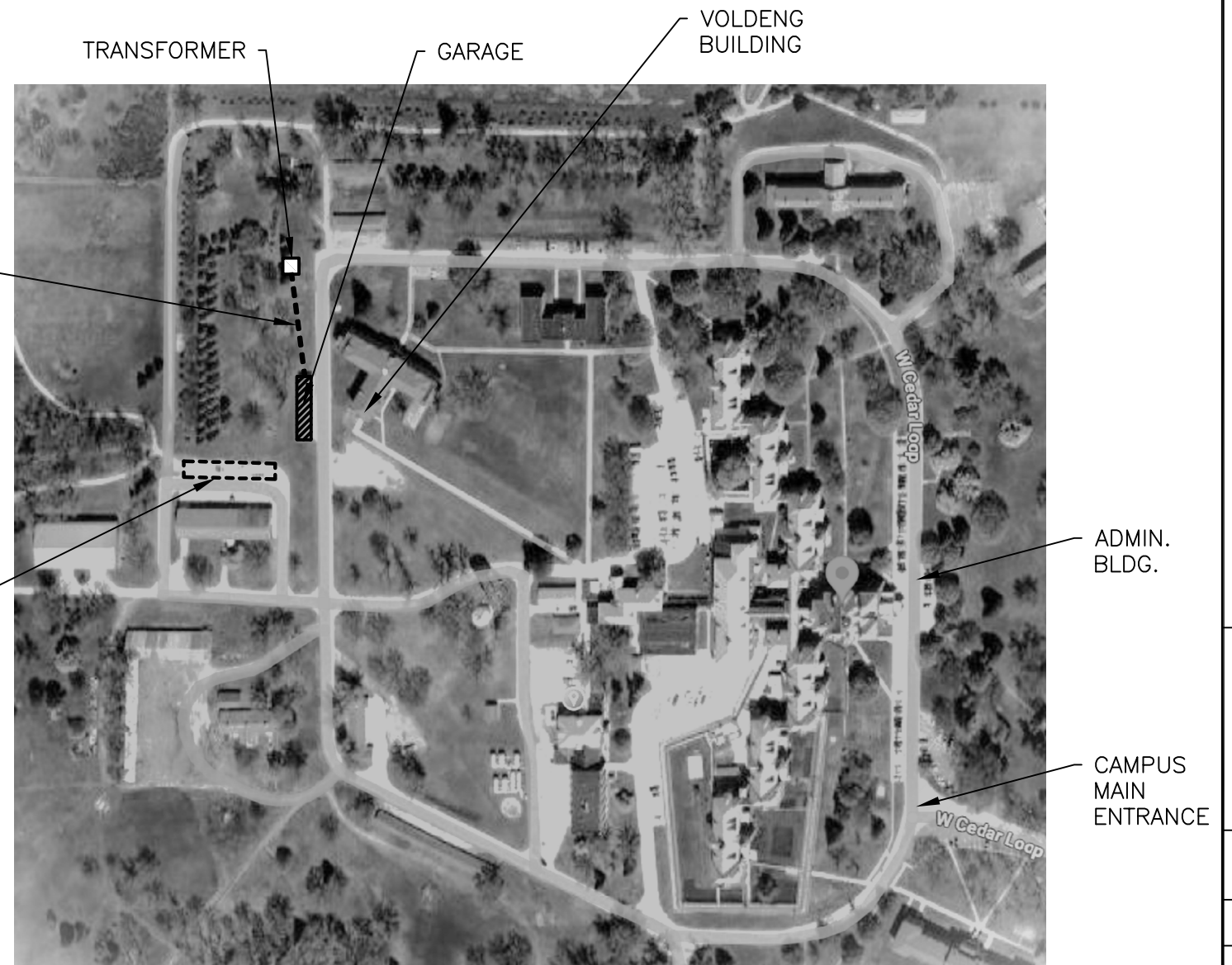
SITE NOTES:

1. CONTRACTOR'S PERSONNEL TO FOLLOW ALL RULES FOR CONSTRUCTION WORKERS. SEE SPECIFICATION FOR REQUIREMENTS.
2. COORDINATE ANY BUILDING AND SECURITY ISSUES WITH FACILITY AND CONSTRUCTION MANAGER.
3. REMOVE ALL DEMOLISHED MATERIALS AND CONSTRUCTION WASTE TO THE CONTRACTOR'S DUMPSTER. ALL WORK AREAS ARE TO BE THOROUGHLY CLEANED UP AT THE END OF EACH DAY.
4. COORDINATE DUMPSTER LOCATION WITH FACILITY AND CONSTRUCTION MANAGER. SEE MAP FOR PROPOSED LOCATION.
5. ALL TOOLS AND EQUIPMENT ARE TO SECURED AND LOCKED UP AT THE END OF EACH DAY'S WORK.
6. SEE MAP FOR CONTRACTOR'S MATERIAL STAGING AND PARKING LOCATIONS.
7. SEE SPECIFICATION FOR WORK HOURS. COORDINATE WITH FACILITY FOR ANY PROPOSED EXTENDED WORK HOURS INCLUDING WEEKENDS.
8. PROVIDE TEMPORARY BARRIERS AND CAUTION LINES AROUND WORK AREA.
9. CONTRACTOR TO REPAIR ALL AREAS OF DAMAGED LAWN. REPAIR RUTS AND RESEED. CONTRACTOR TO DO INITIAL WATERING THEN OWNER WILL WATER UNTIL LAWN HAS BEEN RE-ESTABLISHED.



AERIAL GARAGE

NOT TO SCALE



CHMHI MAP

NOT TO SCALE



CONCRETE AND MASONRY KEYNOTES:

- (A) REPAIR WALL CRACK THROUGH CLAY TILE AND FOUNDATION FULL HEIGHT.
- (B) REPAIR WALL CRACK THROUGH CLAY TILE AND FOUNDATION ABOVE AND BELOW WINDOW OPENING.
- (C) CUT IN NEW WALL EXPANSION JOINT. SEE DETAIL 1/A2.1.
- (D) REPLACE BROKEN CLAY TILE AND REPLACE WITH SOLID BRICK. APPROXIMATE QUANTITY OF 9 AT NW CORNER. OPTION TO REPLACE WITH SALVAGED CLAY TILE IF AVAILABLE. CUT BRICK 3" HORIZONTAL WITH CENTER JOINT.
- (E) REPAIR CLAY TILE CRACK OVER DOOR. REPLACE CRACKED BRICK. ADD 8 FOOT LENGTH OF 2X6 TOP PLATE FROM EAST EXTERIOR WALL TO WEST OF DOOR OPENING. PROVIDE THREADED ANCHORS AT 24" O.C. AND GROUT INTO TOP COURSE OF CLAY TILE.
- (F) FLOOR CRACK FULL LENGTH OF BUILDING (APPROX 115 L.F.). CLEAN OUT AND FILL WITH POURABLE SEALANT. GRIND ANY OFFSETS FLUSH. APPROX. 40 LIN. FT. TO BE GROUND DOWN FLUSH.

KEYNOTES:

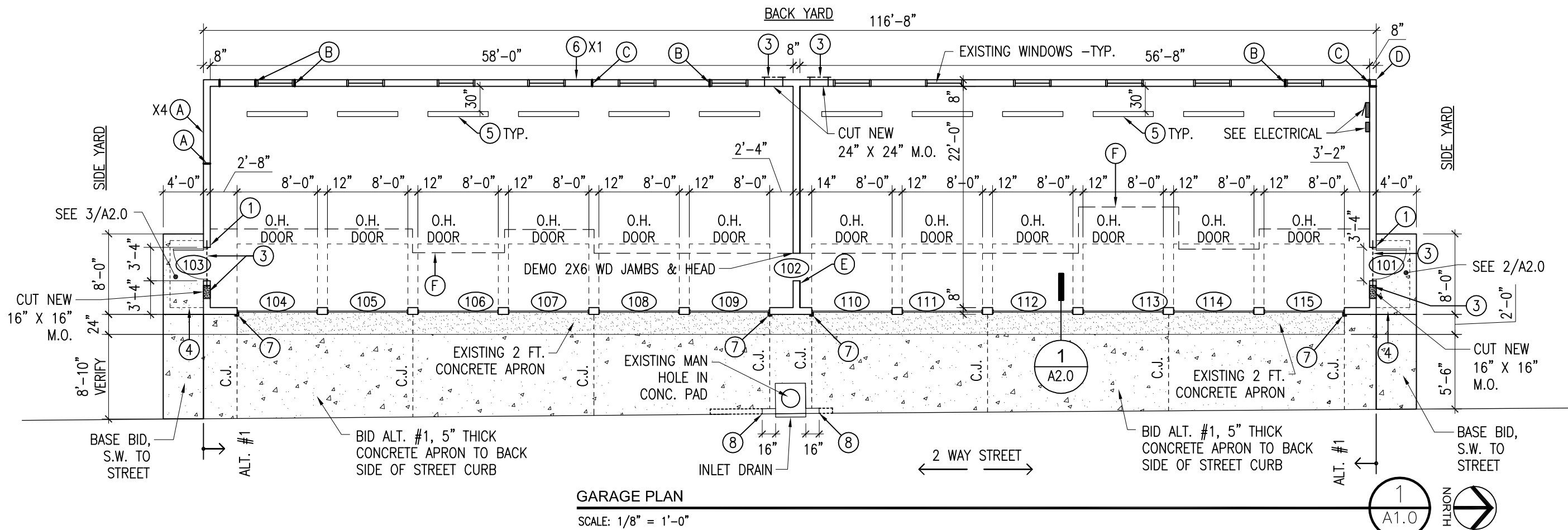
- ① CUT CLAY TILE ROUGH OPENING WIDER FOR NEW DOOR FRAME. SHORE UP TOP COURSES OF CLAY TILE.
- ② CUT CLAY TILE ROUGH OPENING FOR NEW DOOR FRAME. SHORE UP TOP COURSES OF CLAY TILE BEFORE REMOVING TILE BELOW.
- ③ PROVIDE STEEL ANGLE LINTEL. SEE DETAIL 2/A2.1.
- ④ PROVIDE FROST FREE STOOP. SEE DETAILS 2 & 3 ON SHT A2.0.
- ⑤ OWNER WILL FURNISH & INSTALL WHEEL STOP IN SAFETY YELLOW COLOR. 6" WIDE X 6 FEET LONG.
- ⑥ FILL OPEN HOLES IN CLAY TILE WITH COLORED MORTAR. DRILL 1/2" HOLE IN TOP OF TIL & INJECT TO FILL CORES FLUSH.
- ⑦ OWNER WILL FURNISH & INSTALL STEEL ANGLE CORNER GUARDS ON MASONRY CORNERS. SEE DETAIL 3/A2.1.
- ⑧ CUT EXISTING STREET CURB BACK TO LEAVE ONLY 16" ON BOTH SIDES OF MANHOLE. BEVEL SIDES UP 6 INCHES. OWNER TO PAINT REMAINING 6" CURB AND FRONT 6 INCHES OF STORM INLET SAFETY YELLOW.

CONCRETE & MASONRY REPAIR NOTES:

- 1. REPAIR CRACKS IN CLAY TILE AS CALLED FOR IN THE AREAS INDICATED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY SCOPE AND LINEAL FOOTAGES FOR THEIR OWN ESTIMATES.
- 2. ALL MORTAR JOINTS ARE TO BE TOOLED CONCAVE. REPLACE ANY MORTAR THAT DEVELOPES SIDE CRACKS OR DO NOT HAVE PROPER SIDE ADHESION. MATCH EXISTING MORTAR COLOR. SEE MOCK UP REQUIREMENTS.
- 3. PROVIDE BRICK FOR PATCHING REPAIRS TO MATCH COLOR OF CLAY TILE. CONTRACTORS OPTION TO PROVIDE SALVAGED CLAY TILE IF AVAILABLE. SEE MOCK UP REQUIREMENTS.
- 4. REPAIR CRACKS THRU CLAY TILE BY ROUTING MIN. 1/4" WIDE & PATCHING WITH COLOR MORTAR TO MATCH CLAY TILE. OPTION TO USE BRICK REPAIR MORTAR COMPOUND.
- 5. REPAIR CRACKS IN MORTAR JOINTS BY REPOINTING.
- 6. ROUT ALL CONCRETE CRACKS IN FDN AT KEYNOTES A & B MIN. 1/4" WIDE AND PATCH WITH CONCRETE REPAIR COMPOUND.
- 7. PROVIDE CONCRETE APRON SLAB WITH ONE LAYER 6 X 6 -W2.9 MESH. SUPPORT TO CENTER IN POURED SLAB.
- 8. CONCRETE APRON SLAB TO BE 5 INCHES THICK. APRON AND STOOP TO BE 4,500 PSI CONCRETE DESIGN STRENGTH AT 28 DAYS. PROVIDE BROOM FINISH.
- 9. PROVIDE 3/8" EXPANSION JOINTS AT ALL SLAB EDGES, AROUND STOOP AND ALONG BUILDING. PROVIDE RECESSED ASPHALTIC FIBER FILLER STRIPS WITH POURABLE SEALANT IN ALL EXPANSION JOINTS.
- 10. PROTECT AND CURE CONCRETE IN ACCORDANCE WITH ACI STANDARDS. PROVIDE COLD WEATHER PROTECTIONS MEASURES AS NEEDED.
- 11. PROVIDE WATER REPELLENT AND CHLORIDE SCREEN ON STOOP AND APRON.

GENERAL NOTES:

- 1. ALL WORK IS TO CONSTRUCTED IN COMPLIANCE WITH STATE BUILDING CODES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICES.
- 2. NOTE DRAWING SCALES FOR EACH PLAN AND SHEET. PLANS AND DETAILS VARY IN SCALE.
- 3. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH FIELD MEASUREMENTS. ITEMS, QUANTITIES AND SQUARE FOOT QUANTITIES ARE ESTIMATES. FIELD VERIFY ALL QUANTITIES.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH WORK.
- 5. PROTECT ALL FINISHED WORK FROM ADJACENT CONSTRUCTION FOR THE REMAINING DURATION OF CONSTRUCTION.
- 6. PROVIDE TEMPORARY BARRIER AROUND WORK AREA. CLOSE UP AND SECURE ALL DOOR OPENINGS AT THE END OF EACH DAY.
- 7. SEE UNIT COSTS AND MOCK UP REQUIREMENTS IN SPECIFICATION.



GARAGE PLAN

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

939 OFFICE PARK RD., #101
WEST DES MOINES, IA 50265
TEL: 515-440-1681
FAX: 515-440-1687



HHS CHMHI FLEET GARAGE REPAIRS
CHEROKEE MENTAL HEALTH INSTITUTE
1251 W. CEDAR LOOP
CHEROKEE, IA 51012

GARAGE PLAN

DAS NO.
9475.00

PROJECT NO.
2514

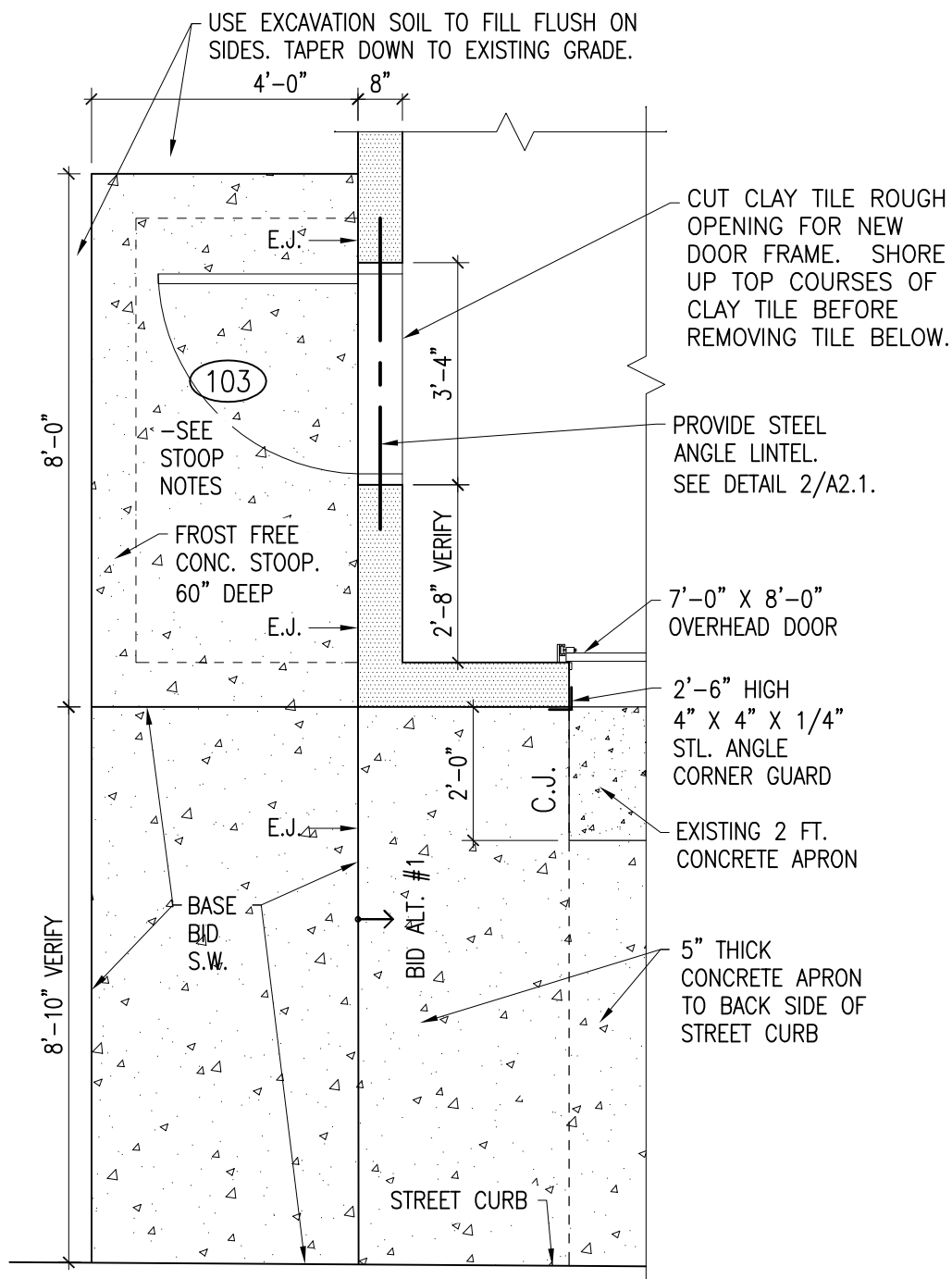
ISSUE DATE
10-17-2025

SHEET NUMBER

A1.0

STOOP NOTES:

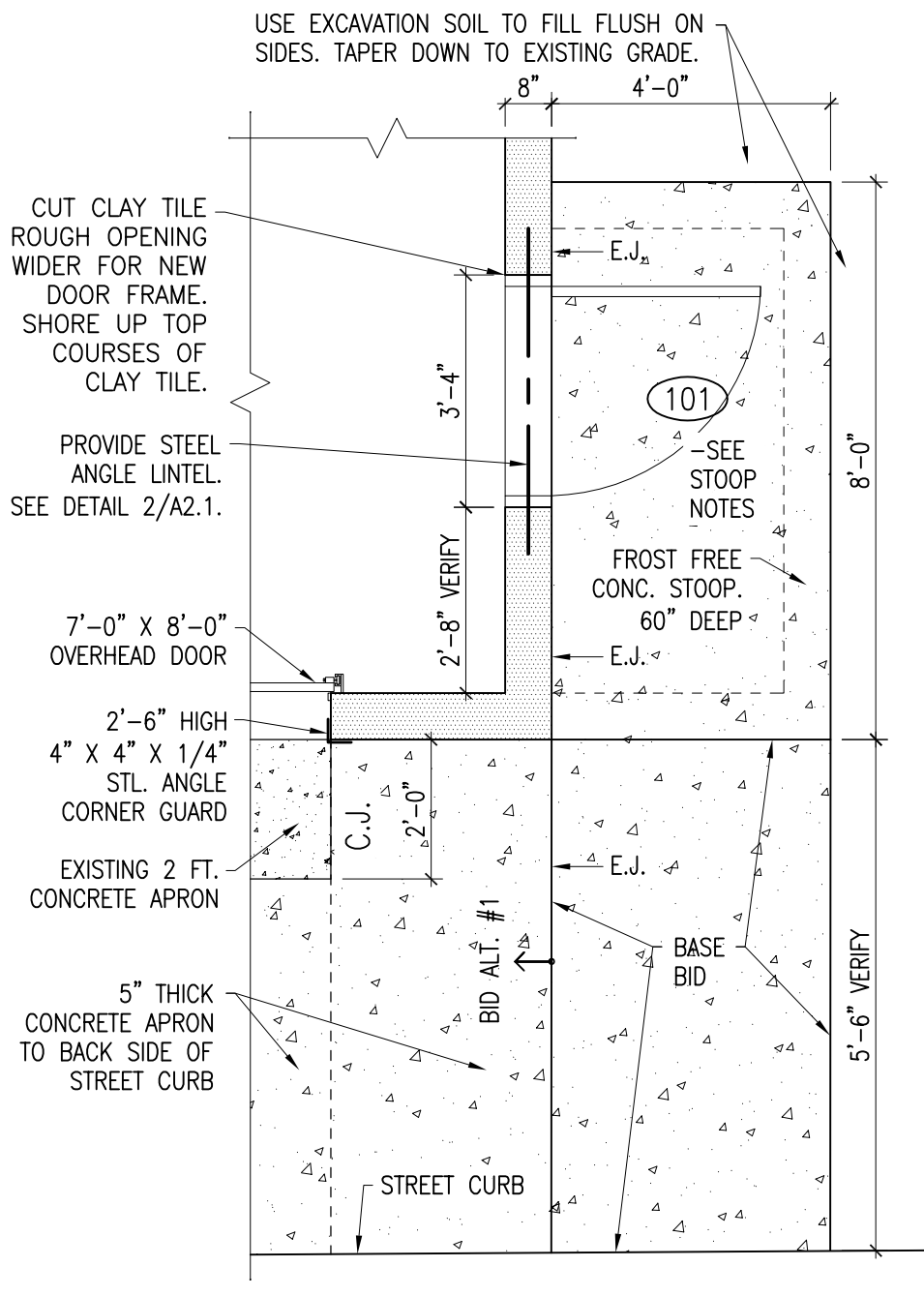
1. 8" TRENCH FDN TO -5'-0" W/ (2) # 4 BARS CONTINUOUS AT TOP.
2. TOP SLAB ON METAL FORM DECK W/ MIN. 6" VOID BENEATH. SLAB AT WALL 5" THICK SLOPE TO 4" AT OUTSIDE. REINF. W/ #4 BARS AT 8" EA. WAY. 2" FROM BOTTOM OF SLAB.



CONCRETE STOOP, SOUTH

SCALE: 3/8" = 1'-0"

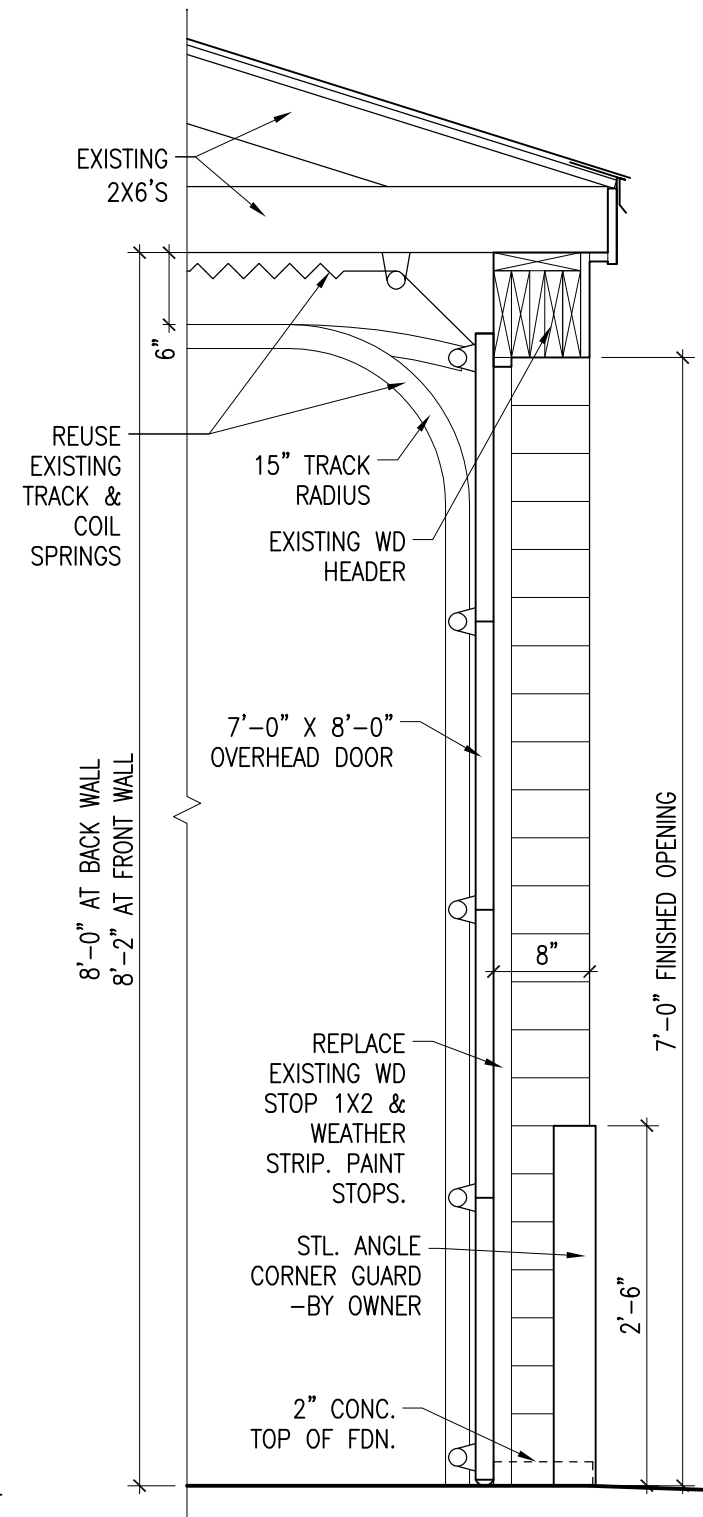
3
A2.0



CONCRETE STOOP, NORTH

SCALE: 3/8" = 1'-0"

2
A2.0



OVERHEAD DOOR SECTION

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

1
A2.0

HHS CHMHI FLEET GARAGE REPAIRS
CHEROKEE MENTAL HEALTH INSTITUTE
 1251 W. CEDAR LOOP
 CHEROKEE, IA 51012

SECTION & ENLARGED PLANS

DAS NO.
9475.00

PROJECT NO.
2514

ISSUE DATE
10-17-2025

SHEET NUMBER

A2.0

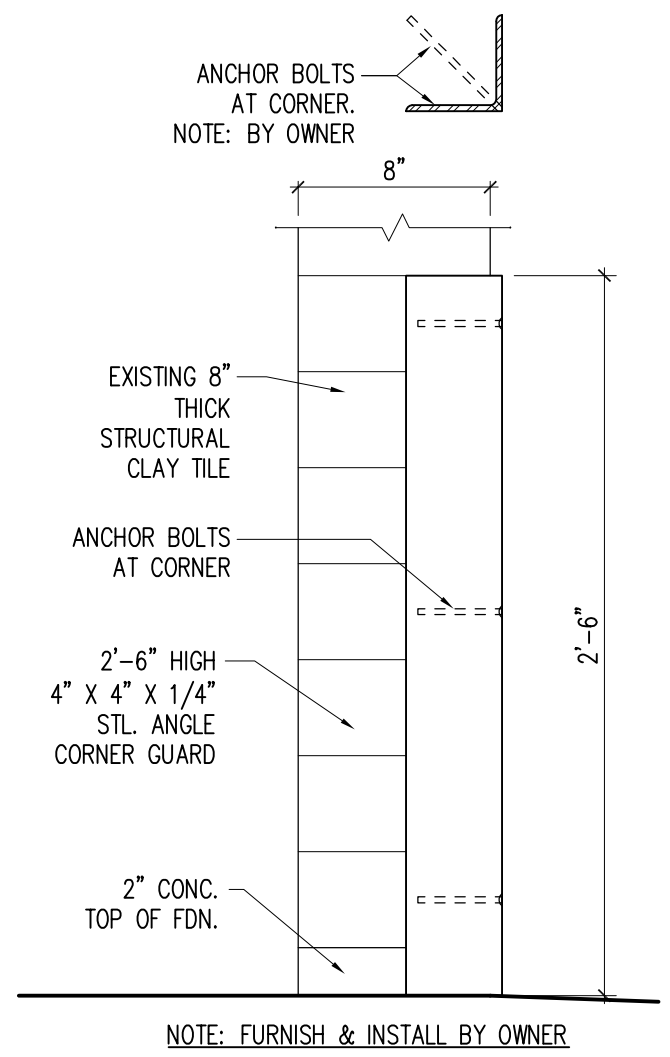
NOTES:
 BID ALT. #2
 -REUSE EXISTING
 OVERHEAD DOORS.

DOOR SCHEDULE			H.M. DOOR	O.H. DOOR	OPEN ONLY	FRAME	LINTEL
101	HM DOOR & FRAME	3'-0" X 7'-0" X 1 3/4"	●			4/A2.1	2/A2.1
102	EXISTING OPENING	3'-0" X 6'-8" M.O.			●	EX WD.	2/A2.1
103	HM DOOR & FRAME	3'-0" X 7'-0" X 1 3/4"	●			4/A2.1	2/A2.1
104	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
105	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
106	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
107	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
108	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
109	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
110	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
111	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
112	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
113	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
114	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.
115	OVERHEAD DOOR	7'-0" X 8'-0"		●		5/A2.1	EX WD.

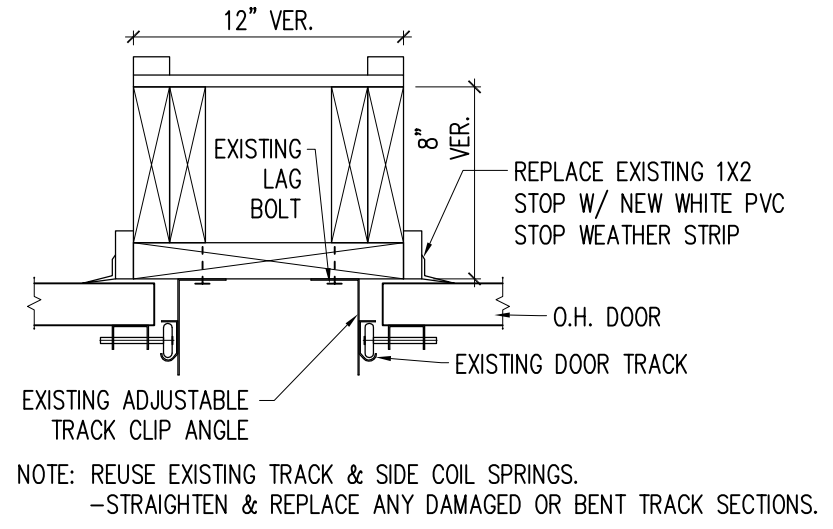
NOTE: ALL DOORS ARE NON-INSULATED.

DOOR NOTES:

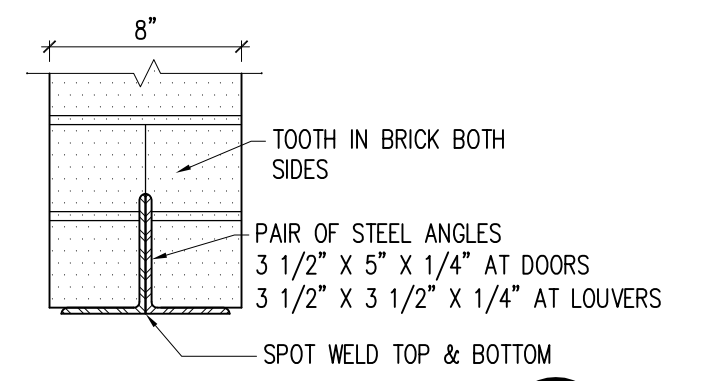
- DOOR, FRAME AND HARDWARE TO BE PROVIDED BY CONTRACTOR. INSTALL HOLLOW METAL DOOR FRAME PER THE DETAILS.
- DOOR HARDWARE INCLUDES THE FOLLOWING:
 - (3) 4.5 X 4.5 US32D S.S. HINGES
 - (1) HEAVY DUTY RATED CLOSER
 - (1) 36" THRESHOLD
 - (1) 36" SWEEP
 - (1) WEATHERSTRIP
 - (1) LOCKSET: STORAGE FUNCTION
- CONTRACTOR TO PROVIDE BLANK KEYS WITH 7 PIN MEDECO CORES. OWNER WILL CUT KEYS.
- HARDWARE FINISH TO BE US32D STAINLESS STEEL.
- CONTRACTOR TO PROVIDE ALL FASTENERS AND ACCESSORIES AS NEEDED FOR COMPLETE INSTALLATION.
- OWNER WILL PAINT DOOR & FRAME 2 COATS WHITE COLOR.
- FRAME SEALANT TO MATCH DOOR FRAME PAINT COLOR.
- PATCH JAMB HOLES IN OPENING #102 WITH COLORED MORTAR AFTER REMOVING WOOD JAMBS.



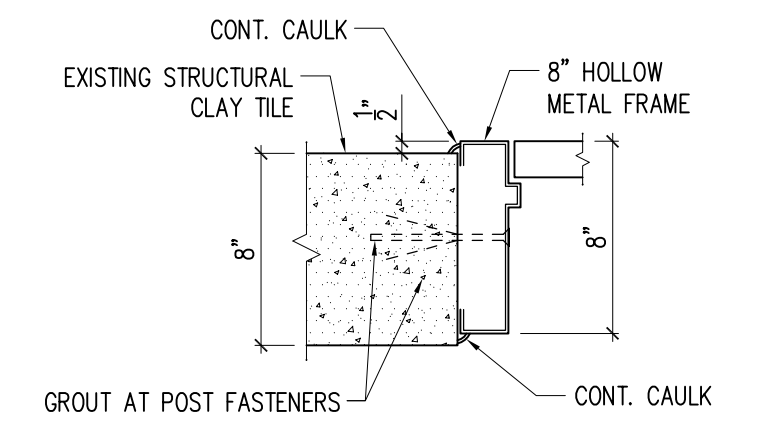
WALL EXPANSION JOINT 3
 SCALE: 1 1/2" = 1'-0" A2.1



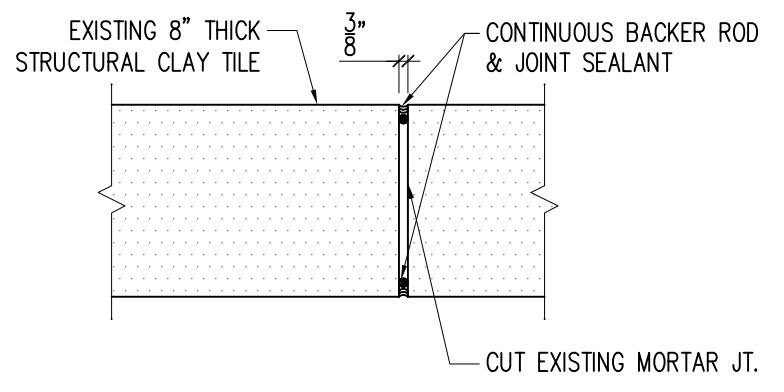
OVERHEAD DOOR JAMB 5
 SCALE: 1 1/2" = 1'-0" A2.1



STEEL LINTEL DETAIL 2
 SCALE: 1 1/2" = 1'-0" A2.1



DOOR SECTION 4
 SCALE: 1 1/2" = 1'-0" A2.1



WALL EXPANSION JOINT 1
 SCALE: 1 1/2" = 1'-0" A2.1

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, AS WELL AS LOCAL UTILITY REQUIREMENTS. PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM AND MAINTAIN WARRANTY REQUIREMENTS. VERIFY ALL EQUIPMENT PROVIDED IS SUITABLE FOR INTENDED USE.
2. WORK NOT SPECIFICALLY SHOWN IN DETAIL, REFERENCED, OR OTHERWISE IMPLIED, SHALL BE PROVIDED IN ACCORDANCE WITH TRADE OR INDUSTRY BEST STANDARD PRACTICES TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
3. ALL MATERIALS SHALL BE NEW AND SHALL BE OF THE TYPE AND SHALL MEET THE CAPACITIES OF EQUIPMENT SPECIFIED ON THE DRAWINGS.
4. ALL EQUIPMENT LISTED UNDER THESE SPECIFICATIONS SHALL BE LIMITED TO PRODUCTS REGULARLY PRODUCED AND RECOMMENDED FOR SERVICE IN ACCORDANCE WITH ENGINEERING DATA, RATINGS, OR OTHER COMPREHENSIVE LITERATURE MADE AVAILABLE TO THE PUBLIC AND IN EFFECT AT THE TIME OF OPENING BIDS.
5. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS FOR TYPE AND CAPACITY OF EACH PIECE OF EQUIPMENT USED.
6. ALL CUTTING AND PATCHING REQUIRED FOR MECHANICAL WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL FINISHED SURFACES THAT ARE CUT SHALL BE REPLACED IN KIND SO THERE IS NO VISIBLE EVIDENCE OF CUTTING AND/OR PATCHING.
7. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT MECHANICAL SYSTEM COMPONENTS IN A NEAT AND WORKMANLIKE MANNER. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
8. COORDINATE DUCTWORK ROUTING AND EQUIPMENT WITH BUILDING STRUCTURE, LIGHTING, AND FIRE ALARM DEVICES.
9. DUCTWORK SUPPORTS SHALL BE SECURED TO STRUCTURE AT 5'-0" ON CENTER.
10. ALL EXPOSED MATERIALS SHALL BE PLENUM RATED.
11. NO LOADS SHALL BE PERMITTED TO BE HUNG FROM ROOF DECKING. ALL HANGERS SHALL BE HUNG DIRECTLY FROM STRUCTURE.
12. PROVIDE THIRD PARTY TESTING AND BALANCING OF MECHANICAL SYSTEM.
13. PROVIDE AS-BUILT DRAWINGS FOR MECHANICAL SYSTEMS WITHIN 30 DAYS OF FINAL COMPLETION.
14. PROVIDE O&M MANUALS FOR ALL SYSTEMS AND EQUIPMENT TO OWNER WITHIN 30 DAYS OF FINAL COMPLETION.

939 OFFICE PARK RD., #101
 WEST DES MOINES, IA 50265
 TEL: 515-440-1681
 FAX: 515-440-1687



HHS CHMHI FLEET GARAGE REPAIRS
 CHEROKEE MENTAL HEALTH INSTITUTE
 1251 W. CEDAR LOOP
 CHEROKEE, IA 51012

MECHANICAL NOTES

DAS NO.
9475.00

PROJECT NO.
2514

ISSUE DATE
10/17/25

SHEET NUMBER
M0.0

LOUVER SCHEDULE											
Mark	Manufacturer	Model	Frame Size (in)	Function	Free Area (sqft)	Free Area Velocity (fpm)	Pressure Drop (in WC)	Material		Finish	Notes
								Aluminum	Steel		
L-1	United Enertech	CFL-D-4	24x24	Exhaust	1.49	671	0.03	X		White	1 thru 3
L-2	United Enertech	CFL-D-4	24x24	Exhaust	1.49	671	0.03	X		White	1 thru 3

Notes:

1. Color by Architect.
2. Louver shall be AMCA rated for air and water.
3. Provide 120v electric actuator, with end switch, and all necessary equipment for motorized damper operations.

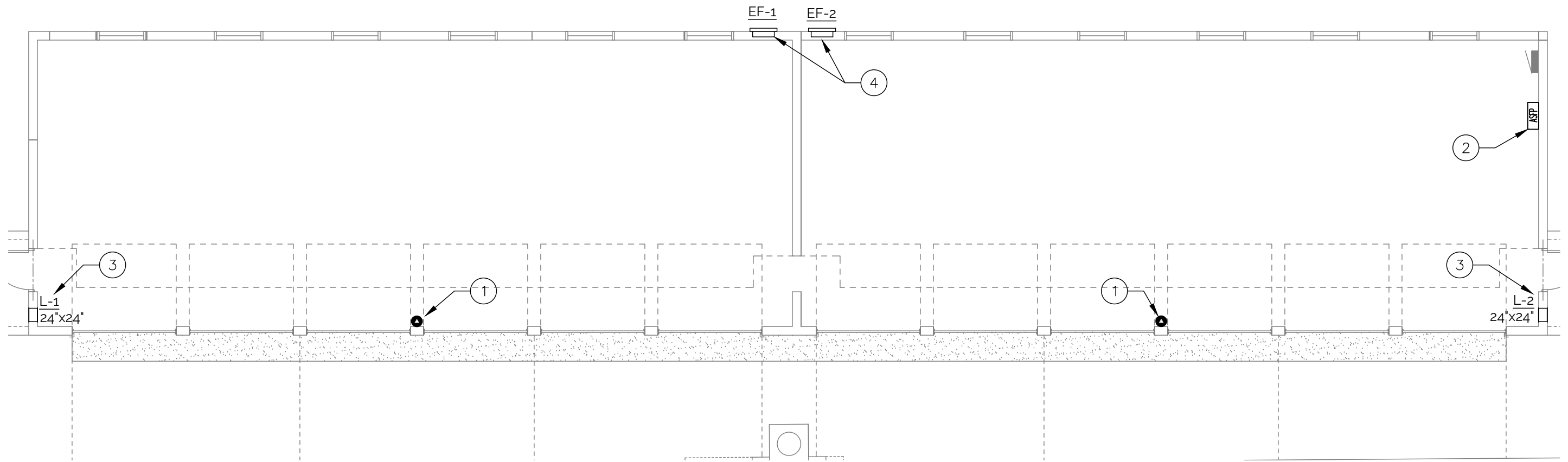
EXHAUST FAN SCHEDULE												
Mark	Manufacturer	Model	Area Served	Drive	Airflow (cfm)	ESP (in WC)	RPM	Power (W)	Electrical		Sones	Notes
									Volts	Phase		
EF-1	JencoFan	GED12-1/10	North Garage	Direct	1,000	0.15	1,295	75	120	1	7.6	1 thru 3
EF-2	JencoFan	GED12-1/10	South Garage	Direct	1,000	0.15	1,295	75	120	1	7.6	1 thru 3

Notes:

1. Provide with 45° rain hood and backdraft damper.
2. Fan shall run continuously.
3. Include all necessary wall mounting equipment.

KEYED NOTES




- ① PROVIDE HONEYWELL E3SRMNO₂ (OR EQUAL) CO AND NO₂ SENSORS. INSTALL CO SENSOR AT 4'-0" AFF. INSTALL NO₂ SENSOR AT 7'-4".
- ② PROVIDE HONEYWELL E3SARHSCO (OR EQUAL) SURFACE MOUNT GAS DETECTION CONTROLLER. CONTROLLER SHALL OPEN ASSOCIATED ZONE LOUVER AND ENABLE EXHAUST FAN WHEN CO REACHES 25 PPM (ADJ) AND/OR NO₂ REACHES 0.7 PPM (ADJ). CONTROLLER SHALL CLOSER ASSOCIATED ZONE LOUVER AND DISABLE EXHAUST FAN WHEN CO REACHES 1 PPM (ADJ) AND/OR NO₂ REACHES 0.1 PPM (ADJ).
- ③ MOUNT BOTTOM OF LOUVER AT 2'-0" AFF.
- ④ MOUNT TOP OF EXHAUST FAN AT 7'-0" AFF.



① GARAGE MECHANICAL PLAN
1/8" = 1'-0"

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, AS WELL AS LOCAL UTILITY REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH LOCAL CODE OFFICIALS TO DETERMINE IF ANY CODE INTERPRETATIONS BY CODE ENFORCEMENT OFFICIALS WILL IMPACT PLANNED WORK.
2. PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM AND MAINTAIN WARRANTY REQUIREMENTS. VERIFY ALL EQUIPMENT PROVIDED IS SUITABLE FOR INTENDED USE. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. WORK NOT SPECIFICALLY SHOWN IN DETAIL, REFERENCED, OR OTHERWISE IMPLIED, SHALL BE PROVIDED IN ACCORDANCE WITH TRADE OR INDUSTRY BEST STANDARD PRACTICES TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
4. CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC. WHEN CIRCUIT DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE EXACT ROUTING REQUIRED.
5. COORDINATE EXACT WIRING REQUIREMENTS WITH MANUFACTURER'S REQUIREMENTS FOR EACH FIXTURE AND PIECE OF EQUIPMENT.
6. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS IN A NEAT AND WORKMANLIKE MANNER AS SPECIFIED IN NECA 1. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED BUILDING PENETRATIONS. SEAL EXTERIOR PENETRATIONS WITH PUTTY AND SILICONE CAULK.
8. INSTALL CONDUIT SECURELY IN A NEAT AND WORKMANLIKE MANNER AS SPECIFIED IN NECA 1.
9. EQUIPMENT CONNECTIONS: MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT.
10. INSTALL DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES TO COMPLETE EQUIPMENT WIRING REQUIREMENTS.
11. TEST LIGHTING SYSTEMS TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING, AND OPERATION.
12. PROVIDE TYPE-WRITTEN PANEL DIRECTORY ON ELECTRICAL PANELS. HANDWRITTEN TEXT IS NOT ACCEPTABLE.
13. COORDINATE COLOR OF RECEPTACLES AND COVER PLATES TO MATCH THE COLOR SCHEME PER ARCHITECTURAL DRAWINGS.
14. PROVIDE AS-BUILT DRAWINGS FOR ELECTRICAL SYSTEMS WITHIN 30 DAYS OF FINAL COMPLETION.
15. PROVIDE O&M MANUALS FOR ALL SYSTEMS AND EQUIPMENT TO OWNER WITHIN 30 DAYS OF FINAL COMPLETION.
16. ALL EXPOSED CABLING SHALL BE PLENUM RATED.
17. CONTRACTOR(S) SHALL UNCONDITIONALLY WARRANTY IN WRITING ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. CONTRACTOR(S) SHALL PROVIDE FREE SERVICE FOR ALL EQUIPMENT INVOLVED IN THEIR CONTRACT DURING THE WARRANTY PERIOD.

ELECTRICAL LEGEND	
	EQUIPMENT POWER CONNECTION
	EQUIPMENT DISCONNECT SWITCH
	PUMP W/ DISCONNECT SWITCH
S	SINGLE POLE SWITCH - DECORATOR STYLE
S ^{DM}	0-10V DIMMER SWITCH - DECORATOR STYLE

HHS CHMHI FLEET GARAGE REPAIRS
CHEROKEE MENTAL HEALTH INSTITUTE
 1251 W. CEDAR LOOP
 CHEROKEE, IA 51012

ELECTRICAL NOTES

DAS NO.
9475.00

PROJECT NO.
2514

ISSUE DATE
10/17/25

SHEET NUMBER
E0.0


 939 OFFICE PARK RD., #101
 WEST DES MOINES, IA 50265
 TEL: 515-440-1681
 FAX: 515-440-1687

LIGHT FIXTURE SCHEDULE

Mark	Fixture Description	Basis of Design		Fixture Data							Mounting Type						Options	Notes	Approved Manufacturers	
		Manufacturer	Model	Driver	Delivered Lumens	Watts	Efficacy (lm/w)	Voltage	Color Temp	CRI (min)	Location			Arrangement						
											Ceiling	Wall	Pole	Grade	Recessed	Surface				
EL1	Egress	Compass	CUSO BK-H	---	1,600	3.4	470.6	120	3000K	70		X					X	Photo-Sensor, PIR Motion Detector, Heater	Separate PIR sensors are acceptable	Evenlite WW Isolite OWL
EX1	Exit Sign	Compass	CERG	---	---	---	---	120	Red	---	X	X					X	NiCad Battery Damp Listed 10° to 40°C		Evenlite TLX Isolite RL

939 OFFICE PARK RD., #101
 WEST DES MOINES, IA 50265
 TEL: 515-440-1681
 FAX: 515-440-1687



HHS CHMHI FLEET GARAGE REPAIRS
 CHEROKEE MENTAL HEALTH INSTITUTE
 1251 W. CEDAR LOOP
 CHEROKEE, IA 51012

ELECTRICAL
 SCHEDULES

DAS NO.
 9475.00

PROJECT NO.
 2514

ISSUE DATE
 10/17/25

SHEET NUMBER
E0.1

PANEL A

VOLTAGE (L-N):	120	ENCLOSURE TYPE:	NEMA 3R
VOLTAGE (L-L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ , 3 W	AIC RATING:	10000
MINIMUM BUS CAPACITY (A):	100 A	NOTES:	-----
MAIN O.C. DEVICE (A):	100 A		

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A	B						
1	Door Opener 1	20	1	1587	1587			1	20	Door Opener 2	2
3	Door Opener 3	20	1			1587	1587	1	20	Door Opener 4	4
5	Door Opener 5	20	1	1587	1587			1	20	Door Opener 6	6
7	Door Opener 7	20	1			1587	1587	1	20	Door Opener 8	8
9	Door Opener 9	20	1	1587	1587			1	20	Door Opener 10	10
11	Door Opener 11	20	1			1587	1587	1	20	Door Opener 12	12
13	EF-1/Louwer	15	1	100	900			1	20	Rcpts (Combo)	14
15	EF-2/Louwer	15	1			100	48	1	20	Lights	16
17	Gas Detection	20	1	500	0			1	0	SPACE	18
19	SPACE	0	1			0	0	1	0	SPACE	20

CONNECTED LOAD PHASE TOTALS (VA)			
11022		9670	

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	DEMAND LOAD	
Equipment	0.0	1.00	0.0	21.1KVA	
Lighting	0.0	1.25	0.1	-0.3 KVA	
Motors	17.7	1.00	17.7	-1.4 AMPS	
Motors (Largest)	1.6	1.25	2.0	-1%	
Receptacles (0 - 10 KVA)	0.9	1.00	0.9		
Standard	0.5	1.00	0.5		
TOTAL:	20.7		21.1		
LOAD (AMPS):	99.5		101.4		



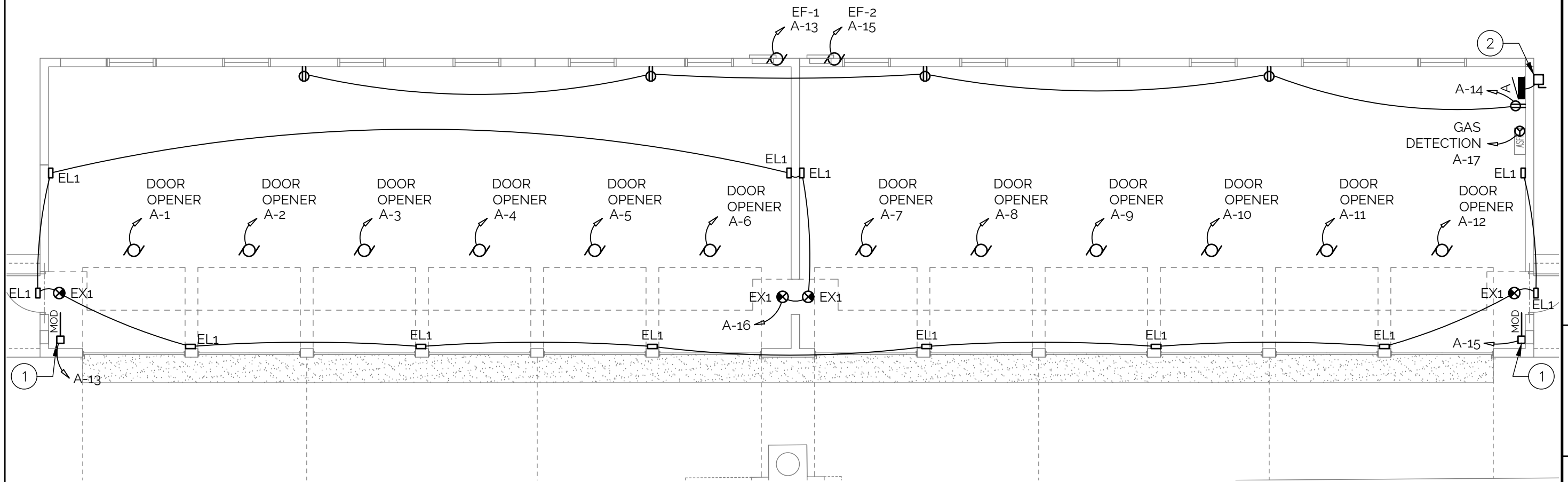
1 ELECTRICAL SITE PLAN
NOT TO SCALE

KEYED NOTES

- ① BORE 2" CONDUIT WITH (3) 3/0 COPPER CONDUCTORS FROM TRANSFORMER T10 TO NEW ELECTRIC SERVICE ENTRANCE FOR GARAGE. CONDUIT SHALL BE INSTALLED A MINIMUM OF 18" BELOW GRADE PER SPECIFICATION SECTION 26 0533.13. APPROXIMATE LENGTH IS 260 LINEAL FEET. FIELD VERIFY EXACT LOCATION AND CONDITIONS. BORING WILL CROSS EXISTING CAMPUS POWER LOOP; CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UTILITY LOCATES PRIOR TO START OF WORK.

KEYED NOTES

- ① PROVIDE POWER TO AUTOMATIC DAMPER (PROVIDED BY MECHANICAL CONTRACTOR). COORDINATE WITH MECHANICAL.
- ② PROVIDE 100A-2P DISCONNECT TO SERVE PANEL A. REFER TO SHEET E1.0 CONDUIT AND CONDUCTOR ROUTING TO EXISTING TRANSFORMER.



① GARAGE ELECTRICAL PLAN
1/8" = 1'-0"

939 OFFICE PARK RD., #101
WEST DES MOINES, IA 50265
TEL: 515-440-1681
FAX: 515-440-1687



HHS CHMHI FLEET GARAGE REPAIRS
CHEROKEE MENTAL HEALTH INSTITUTE
1251 W. CEDAR LOOP
CHEROKEE, IA 51012

GARAGE ELECTRICAL
PLAN

DAS NO.
9475.00

PROJECT NO.
2514

ISSUE DATE
10/17/25

SHEET NUMBER
E1.1