Minutes for
Heartland Community Schools
Board of Education Regular Meeting

Monday, May 8, 2023 8:00 PM
Conference Room
1501 Front St
Henderson, NE 68371-8929
Notice of the meeting was posted in the Henderson News on May 4, 2023.

MISSION STATEMENT:

Heartland Community School strives to provide challenging educational opportunities for ALL students to reach their highest level of excellence.

1. **Preliminary Procedures**

1.1. **Call to Order**

1.2. **Public Notice of the Meeting**

1.3. **Roll Call**

2. **Public Comment on Agenda Items**

Nebraska Revised Statute 84-1412 requires members of the public desiring to provide comments to the board to identify himself or herself, including an address, and the name of any organization represented by such person. A form is provided at the meeting for individuals to complete and to submit to the superintendent prior to speaking for the purposes of efficiently providing this information.

3. **Reports**

3.1. **Superintendent's Report**

3.2. **Principals' Reports**

4. **Discussion Items**

4.1. **Finalizing Building Documents**

Mr. Klein shared that the building committee met with the design team on May 4th to finalize building plans. The current plan is to put the bid packages out on May 11th with bid opening on June 6th.

4.2. **Supt. Evaluation**

The board is required to do two evaluations of the superintendent during the first year. Our first evaluation was in November. Board members will each fill out an evaluation by May 26th that will be compiled and presented to Jeremy by Gary Braun and Lacey Gloystein.

4.3. **Annual Report**

4.4. **Schedule Officers Committee Meeting**

Board officers will meet on May 30th at 1pm to review surveys regarding the strategic plan and mission/vision.

4.5. **Schedule Civics Committee Meeting**

The Committee on American Civics will meet June 5th at 1pm.

5. **Action Items**

5.1. **Pre-Approve Summer Project Expenditures**

Mr. Klein presented summer projects including the replacement of the rooftop cooling unit for the high school library, the water heater for the kitchen and the installation of a back flow prevention for the kitchen sink drains.

Motion to pre-approve and authorize the necessary expenditures for capital projects not to exceed $25,000 for the replacement of the roof top HVAC unit above the HS Library, $17,500 for the replacement for the kitchen's hot water heater, and $25,000 for the installation of back-flow prevention for the kitchen sink drains. Passed with a motion by Tyler Newton and a second by Jen Hiebner.

Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

6. **Future Agenda Items**

6.1. **Regular June Meeting: Monday, June 12th @ 8 PM**

6.2. **Annual Policy Hearings Prior To June Meeting**

7. **Consent Agenda**

Motion to approve the consent agenda Passed with a motion by Tyler Newton and a second by Jen Hiebner.

Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

7.1. **Approval of Minutes**

7.1.1. Regular Meeting: April 10, 2023

7.2. **Approval of Treasurer's Report**

7.3. **Approval of Claims**

7.4. **Financial Reports**

8. **Public Comment on Topics Not on the Agenda**

Nebraska Revised Statute 84-1412 requires members of the public desiring to provide comments to the board to identify himself or herself, including an address, and the name of any organization represented by such person. A form is provided at the meeting for individuals to complete and to submit to the superintendent prior to speaking for the purposes of efficiently providing this information.

9. **Adjournment**

The next scheduled meeting to be held on

Motion to adjourn the meeting at 10:08pm Passed with a motion by Tyler Newton and a second by Lacey Gloystein.

Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

_____

Board President

_____

Board Secretary

TO: Heartland Community Schools Board of Education
FROM: Jeremy Klein, Superintendent
RE: Superintendent's Report – Monday, May 8, 2023

Meeting Reminders

Our regular, May board meeting is scheduled for Monday, May 8, 2023, with a start time of 8 PM. The meeting will be held in the Board Room. Please let Gary or I know if you need to be absent.

Committee Meeting Reminders

There are no committee meetings prior to the board meeting.

Consent Agenda: Minutes

Approval of the Consent Agenda will include approval of the minutes from the following meetings:

- Regular Board Meeting: Monday, April 10, 2023

Consent Agenda: Claims & Reports

Claims for the month are included in your packet. I encourage you to contact me prior to the meeting with any questions that you have about any individual claims – I will either answer your question or bring the answer to the meeting.

Graduation

Congratulations to the Class of 2023 who graduated Sunday, May 7th. Thank you to Mr. Carr, Mrs. Koehler, Mr. Regier, Mr. Schweitzer, and Mr. Hall, as well as our maintenance team (Matt, Randy, Shawn), for all of their hard work and preparation in helping put together an outstanding graduation ceremony for our students, parents, and community members.

Last Day Of School

Thursday, May 18th with an 11:30 AM dismissal.

End-Of-Year Luncheon & Service Awards

We'll hold our luncheon and service awards presentation on the afternoon of Thursday, May 18th. Lunch will begin at 12:30 PM. The awards presentation will begin at approximately 1:15 PM. Three staff members will be retiring this year: David Clayton (driver), Kristy Most (teacher), and Bridget Yoder (driver) – we'll have approximately 8 other service milestones to recognize as well.

TO: **Heartland Community Schools Board of Education**
FROM: **Jeremy Klein, Superintendent**
RE: **Superintendent's Report – Monday, May 8, 2023**

HS Robotics Team

I'll yield the bulk of my time for my report to the HS Robotics Team. They will take the opportunity to visit with the Board about their successful season this past winter-spring. Their season included two tournament championships and a 3rd place finish at the US Open event in Council Bluffs at the end of March.

Dates / Events To Note

May 8: Regular May Board Meeting @ 8 PM
May 18: Last Day of School (Dismissal @ 11:30)
May 22: Civics Committee @ 8 PM or TBD (tentative)
May 23: Pre-Bid Meeting
May 23: Final Teacher Day
June 6: Bid Opening
June 12: Regular June Board Meeting @ 8 PM
July 10: Regular July Board Meeting @ 8 PM

Elementary Principal's Report
May, 2023

Field Day

- May 2 - a fun day for Heartland Elementary Students
- Thanks to Mr. Wagner and Mr. Wetjen for their efforts planning and hosting the event. Thanks to the seniors for their help with the events throughout the afternoon.

First Grade Field Trip

- May 3
- Lincoln Children's Zoo



Senior Walk Through

- The elementary students enjoyed watching the seniors walk through the hallways with their caps and gowns on during their last school day on May 3. A Heartland tradition is to take a photo of the graduating class with the current Kindergarten class.



Art Show

- A special shout out to Mrs. Gooder and the K-12 art students for an amazing showcase of their talents during the Art Show on April 27-28 in the south gym.





Staff Appreciation Week

- May 1 - 5
- Thanks to everyone that makes Heartland Community Schools “go” on a daily basis! We are truly blessed with an amazing group of professionals that work extremely hard for the success of our students.
- Thanks to Tammy and Janet for their efforts in providing treats to the staff throughout this week and the year.

Principal's Report

Student Honors-

- Awards Night was successful. We have some amazing students! https://tinyurl.com/2bz2y2pc

- Academic Signing; 18 students received an academic scholarship from the college they will be attending. https://tinyurl.com/mr3x7u6p

- Graduation
  - 28 graduates,
  - 3.4 and above; 21/28

- Art
  - The Art Show was a success! The artwork on display was amazing. The turnout for the pancake feed and art show was great! It was good to combine the events.

- District Music Contest
  - Heartland students all earned ratings of Superior (I) and Excellent (II). All large groups earned a rating of Superior. Our students and our directors did an excellent job. One of the judges for the band told our students they had one of the best directors in the state. Our students were all nodding their heads in agreement.

- The NSAA created a new award for students active in 3 or more NSAA activities. Heartland had 56/104 students earn that award. The average of their GPA is 3.7981.

- Academic All-State
  - Each year, the LJS (Lincoln Journal Star) has awarded HS students with an Academic All State Award. We have numerous students that earn this award. There is a display board in our north gym to show we've earned 581 since the Heartland consolidation. Unfortunately, the LJS stopped giving this award.
  - The Nebraska Chiropractic Physicians Association gives an Academic All-State award and it goes to two people per activity. The 2023 award Winners are:

NCPA ACADEMIC ALL-STATE AWARDS

Nebraska Chiropractic Physicians Association 3.7 GPA or higher

Girls Golf:	Ruby Kliewer, Mia Hiebner
Boys Golf:	Jacob Regier, Andrew Franz
Volleyball:	Madelyn Maltsberger, Grace Regier
Football:	Merrick Maltsberger, Zachariah Quiring
Play Production:	Reese Regier, Benjamin Janzen
Girls Basketball:	Riley Goertzen, Felicity Johnson
Boys Basketball:	Merrick Maltsberger, Zachariah Quiring
Music:	Grace Regier, Jake Regier
Girls Track & Field:	Lilly Carr, Grace Regier
Boys Track & Field:	Garett Regier, Zachariah Quiring

2021-22

ACADEMIC ALL-STATE

WHO WAS ELIGIBLE?

Student-athletes who are juniors or seniors can be nominated by their coach or another representative of their high school. Nominees, however, must carry a cumulative grade-point average of 3.6 or better on a 4.0 scale and be a varsity starter. Among non-starters, one individual who contributes significantly to his or her varsity team could also be nominated.

HOW WERE SELECTIONS MADE?

The Journal Star staff evaluated each nomintion, weighing factors relating to both athletic and academic achievement. Therefore, it is possible for a nominated student-athlete to qualify for Academic All-State in one sport but not another. NOTE: These selections are not associated with the NSAA academic all-state awards.

I DON'T SEE MY SCHOOL LISTED

With nearly 220 schools submitting nomination forms, it's possible for a form to get lost in the shuffle. However, if you don't see a school listed below, it's likely because the school didn't submit names.

QUESTIONS OR COMMENTS?

Send emails to sports@journalstar.com

HEARTLAND

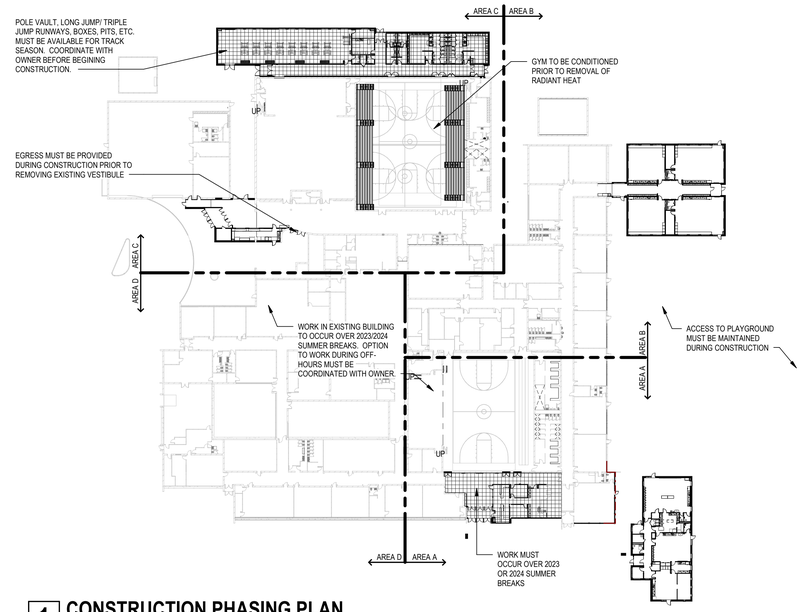
	FB	BTF	Tucker Bergen	Jr.	3.8
	VB	GTF	Ashley Brown	Sr.	3.8
	GBB	GTF	Lilly Carr	Jr.	3.8
	VB	GTF	Ella Friesen	Sr.	3.9
		BGo	Alex Goertzen	Sr.	3.9
	VB	GBB	Riley Goertzen	Jr.	4.0
	BTF	FB	Eli Hiebner	Sr.	3.9
		BGo	Mason Hiebner	Sr.	3.9
	VB	GBB	Felicity Johnson	Jr.	4.0
		GGo	Ruby Kliewer	Jr.	3.8
	GTF	GBB	Madelyn Maltsberger	Jr.	3.9
FB	BBB	BTF	Merrick Maltsberger	Jr.	3.9
		GGo	Elizabeth Mestl	Sr.	3.8
		FB	Cole Miller	Jr.	3.9
BTF	FB	BBB	Dawson Ohrt	Sr.	4.0
		FB	Carson Ott	Sr.	4.0
	FB	BTF	Wyatt Panko	Jr.	3.9
	FB	BBB	Trev Peters	Jr.	3.8
BBB	FB	BTF	Zachariah Quiring	Jr.	4.0
	FB	BTF	Garett Regier	Jr.	4.0
	GTF	VB	Grace Regier	Jr.	4.0
	BGo	BBB	Jacob Regier	Jr.	4.0
	FB	BBB	Kale Wetjen	Sr.	4.0

Heartland Community Schools

Addition & Renovation

Owner Review Set

1501 Front St.
Henderson, NE 68371
May 8, 2023



1 **CONSTRUCTION PHASING PLAN**
SCALE: 1" = 50'-0"

ARCHITECT (COORDINATING PROFESSIONAL) | CIVIL ENGINEER | LANDSCAPE ARCHITECT | STRUCTURAL ENGINEER | MECHANICAL ENGINEER | ELECTRICAL ENGINEER

GENERAL

G0.00 Title Sheet & Drawing Index
G0.01 General Notes, Symbols & Abbreviations
G0.10 Code Compliance Plan
G0.20 ADA Details
G0.21 ADA Details

CIVIL

C1.01 Site Utility Plan
C2.01 Storm Sewer Plan
C3.01 Utility Construction Details

LANDSCAPE ARCHITECTURAL

L1.01 Site Demolition Plan Overview
L1.02 Site Demolition Plan Area 'A'
L1.03 Site Demolition Plan Area 'B'
L1.04 Site Demolition Plan Area 'C'
L2.01 Site Layout Plan Overview
L2.02 Site Layout Plan Area 'A'
L2.03 Site Layout Plan Area 'B'
L2.04 Site Layout Plan Area 'C'
L3.01 Site Grading Plan Overview
L3.02 Site Grading Plan Area 'A'
L3.03 Site Grading Plan Area 'B'
L3.04 Site Grading Plan Area 'C'
L3.05 Erosion Control Plan
L3.06 Erosion Control Details
L4.01 Site Planting Plan Overview
L4.02 Site Planting Plan Area 'A'
L4.03 Site Planting Plan Area 'B'
L4.04 Site Planting Plan Area 'C'
L6.01 Site Details
SF1.01 Jump & Vault Layout Plan & Grading Plan & Drainage Plan

ARCHITECTURAL

A0.00 Wall Type Schedule & Details
A0.01 Typical Interior Stud Framing Details & Exterior Wall Assemblies
A0.02 Orientation Plan
A0.11 First Floor Demolition Plan
A0.21 First Floor Reflected Ceiling Demolition Plan

ARCHITECTURAL CONTINUED

A0.30 Roof Demolition Plan
A1.11 First Floor Plan - Area A
A1.12 First Floor Plan - Area B
A1.13 First Floor Plan - Area C
A1.14 Second Floor Plan- Area C
A1.21 First Floor Reflected Ceiling Plan - Area A
A1.22 First Floor Reflected Ceiling Plan - Area B
A1.23 First Floor Reflected Ceiling Plan - Area C
A1.30 Roof Plan
A2.10 Exterior Elevations
A2.11 Exterior Elevations
A3.10 Building Cross Sections
A4.10 Wall Sections
A4.11 Wall Sections
A6.10 Area A - Enlarged Plans & Elevations
A6.11 Area A - Enlarged Plans, Elevations & Schedule
A6.12 Area A & B - Enlarged Plans & Elevations
A6.13 Area C - Enlarged Plans & Elevations
A6.14 Area C - Enlarged Plans & Elevations
A6.15 Area C - Interior Elevations
A6.30 Interior Details
A6.40 Door Schedule, Door Types, Frame Types
A6.50 Frame Types
A7.10 Plan Details
A8.10 Section Details
A8.11 Section Details

INTERIOR FINISHES

F1.10 First Floor Area A & B - Finish Plans
F1.11 First Floor Area C - Finish Plan
F1.30 Room Finishes Schedule & Details
F3.00 Signage Schedule & Details

STRUCTURAL

S0.00 Structural Notes
S1.01 Structural Plans - Area A
S1.02 Structural Plans - Area B
S1.03 Structural Plans - Area C Weights
S1.04 Structural Plans - Area C Entrance
S3.01 Foundation Details
S4.01 Connection & Typical Framing Details
S4.02 Framing Details - Area A Main Entrance
S4.03 Framing Details - Area A Daycare
S4.04 Framing Details - Area B
S4.05 Framing Details - Area C Weights
S4.06 Framing Details - Area C Entrance
S5.01 Typical Structural Stud Wall Framing & CMU Details

FIRE PROTECTION

FS1.01 First Floor Fire Suppression Plan
FS2.01 Fire Schematic

MECHANICAL

M0.00 Mechanical Abbreviations, Symbols & Notes
M0.01 First Floor HVAC Demolition Plan - Area A
M0.02 First Floor HVAC Demolition Plan - Area C
M0.03 Second Floor HVAC Demolition Plan - Area C
M1.01 First Floor HVAC Plan - Area A
M1.02 First Floor HVAC Plan - Area B
M1.03 First Floor HVAC Plan - Area C
M1.04 Second Floor HVAC Plan - Area C
M4.01 Mechanical Schedules
M4.02 Mechanical Schedules
M4.03 Mechanical Schedules
M5.01 Mechanical Controls
M5.02 Mechanical Controls
M5.03 Mechanical Controls

PLUMBING

P0.01 Below Floor Demolition Plan - Area A
P0.02 Below Floor Demolition Plan - Area B
P0.03 Below Floor Demolition Plan - Area C
P0.04 First Floor Demolition Plan - Area A
P0.05 First Floor Demolition Plan - Area B
P0.06 First Floor Demolition Plan - Area C
P0.07 Second Floor Demolition Plan - Area C
P1.01 Below Floor Piping Plan - Area A
P1.02 Below Floor Piping Plan - Area B
P1.03 Below Floor Piping Plan - Area C
P1.04 First Floor Piping Plan - Area A
P1.05 First Floor Piping Plan - Area B
P1.06 First Floor Piping Plan - Area C
P1.07 Second Floor Piping Plan
P2.01 Plumbing Riser Diagram
P2.02 Plumbing Riser Diagrams
P2.03 Plumbing Riser Diagrams
P2.04 Riser Diagrams
P2.05 Riser Diagrams
P2.06 Riser Diagrams
P2.07 Gas Diagram
P4.01 Plumbing Schedules
PM1.01 Mechanical Roof Plan
PM1.02 Mechanical Roof Plans
PM2.01 Details
PM3.01 Mechanical Sections
PM3.02 Mechanical Sections

ELECTRICAL

E0.00 Electrical Abbreviations, Symbols Legend & General Notes
E0.01 Existing Site Electrical Utilities Demolition Plan
E0.02 Site Electrical Utilities Plan
E0.11 Electrical Demolition Plan - Area A
E0.12 Electrical Demolition Plan - Area B
E0.13 Electrical Demolition Plan - Area C
E0.14 Electrical Demolition Plan - Area D
E0.15 Electrical Demolition Plan - Ag Shop
E1.11 Lighting Plan - Area A
E1.12 Lighting Plan - Area B
E1.13 Lighting Plan - Area C
E1.14 Lighting Plan - Area D
E1.15 Lighting Plan - Ag Shop
E2.11 Power & Auxiliary Systems Plan - Area A
E2.12 Power & Auxiliary Systems Plan - Area B
E2.13 Power & Auxiliary Systems Plan - Area C
E2.14 Power & Auxiliary Systems Plan - Area D
E2.15 Power & Auxiliary Systems Plan - Ag Shop
E2.21 Roof Power & Auxiliary Systems Plan - Area A/B
E2.22 Roof Power & Auxiliary Systems Plan - Area C
E3.01 Electrical One Line Diagrams
E4.01 Electrical Schedules
E5.01 Electrical Details

Plot Time Stamp: 5/8/2023 12:29:05 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt

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1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

ISSUED	-	-

SHEET HISTORY:

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

-

Title Sheet & Drawing Index

G0.00

MATERIAL SYMBOLS

EARTHWORKS

EARTH
NON COMPACTED

EARTH/COMPACT
FILL

GRAVEL/POROUS
FILL

CONCRETE

CONCRETE

PRECAST CONCRETE

SAND/MORTAR/
PLASTER

MASONRY

CONCRETE
BLOCK

COMMON/FACE
BRICK

FIRE BRICK

STRUCTURAL
FACING TILE

STONE

BLUESTONE/SLATE/
SOAPSTONE/FLAGGING

RUBBLE

LIMESTONE

METAL

ALUMINUM

BRASS/BRONZE

STEEL

WOOD

FINISH

ROUGH

SHIM

PLYWOOD

GLASS

GLASS

STRUCTURAL

GLASS BLOCK

INSULATION

BATT/LOOSE
FILL

RIGID

SPRAY/FOAM

FINISHES

ACOUSTICAL
TILE

CARPET AND
PAD

CERAMIC TILE

GYPSUM
WALLBOARD

TECTUM

PARTITION INDICATIONS

CAST-IN-PLACE CONCRETE

CONCRETE MASONRY

WOOD STUD

METAL STUD

SPECIAL
FINISH FACE

ELEVATION INDICATIONS

BRICK

CERAMIC TILE

CONCRETE/PLASTER

CONCRETE MASONRY UNIT

GLASS

SHEET METAL

SHINGLES/SIDING

REFERENCE SYMBOLS

SIM / A101 — DETAIL OR SECTION NUMBER
SHEET ON WHICH IT IS FOUND

1 **VIEW NAME**
SCALE: 1/8" = 1'-0" — DETAIL REFERENCE NUMBER

SIM / A101 — SECTION REFERENCE

SIM / A101 — DETAIL REFERENCE

A101 1 A101 SIM — ELEVATION REFERENCE

SIM / A101 — CROSS SECTION REFERENCE

SIM / 1/A101 — DETAIL SECTION REFERENCE

CLASSROOM
101 — ROOM IDENTIFIER

101 — DOOR/OPENING IDENTIFIER

1t — WINDOW/OPENING IDENTIFIER

0 — GRID LINE

FIN. FLR.
100'-0" — ELEVATION REFERENCE

1) — WALL TYPE REFERENCE

KEY NOTE

MATCH LINE

DEMOLITION INDICATOR

A101 — REVISION TAG & CLOUD INDICATOR

REVISION TAG INFORMATION:
TOP indicates the instrument type.
A = Addendum
B = Bid Package
D = Construction Change Directive or Change Directive
F = Field Order
G = Guaranteed Maximum Price
I = Architects Supplemental Instructions or Architects Supplemental Information
L = Limited Permit
P = Proposal Request, Proposal Request Order or Change Proposal Request
R = Request For Information
BOTTOM indicates consecutive number assigned to instrument type.

GENERAL NOTES

1. ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL KNOWLEDGE.
2. ALL DIMENSIONS LOCATING PLUMBING FIXTURES ARE FROM FINISH MATERIAL NOT FROM GPDW SHEATHING.
3. FINAL CLEANING - REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL NEW WORK.

STANDARD ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABBR	ABBREVIATE
ABV	ABOVE
AC	AIR CONDITIONING
ACID RES	ACID-RESISTANT
ACOUS	ACOUSTICAL
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANEL
ACOUS PLAS	ACOUSTICAL PLASTER
ACOUS TILE	ACOUSTICAL TILE
ACT	ACTUAL
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
ADJC	ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALD	ALUMINUM DOOR
ALM	ALARM
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMPL	AMPLIFIER
AMT	AMOUNT
ANN	ANNUNCIATOR
ANOD	ANODIZED
ANT	ANTENNA
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPX	APPENDIX
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ASYM	ASYMMETRICAL
AV	AUDIO VISUAL
AVE	AVENUE
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
B&B	BALLED AND BURLAPPED
BAF	BAFFLE
BAL	BALANCE
BB	BULLETIN BOARD
BC	BOTTOM OF CURB
BD	BOARD
BEV	BEVEL
BF	BOTH FACES
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLST	BALLAST
BM	BEAM
BO	BOTTOM OF
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
BP	BASE PLATE
BRCG	BRACING
BRDG JST	BRIDGING JOIST
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTM	BOTTOM
BUR	BUILT-UP ROOF
BW	BOTH WAYS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
CAB	CABINET
CAV	CAVITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CER TILE	CERAMIC TILE
CFLG	COUNTER FLASHING
CG	CORNER GUARD
CH BD	CHALKBOARD
CHAN	CHANNEL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR
CLSR	CLOSURE
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMM	COMMERCIAL
COMPL	COMPLETE
CONC	CONCRETE
CONC FL	CONCRETE FLOOR
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COV PL	COVER PLATE
CPRS	COMPRESSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRS	COLD ROLLED STEEL
CSG	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CUB	CUBICLE
CUR	CURRENT
CW	COLD WATER
DBL GLZ	DOUBLE GLAZING
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DF	DRAPERY FABRIC
DFR	DOOR FRAME
DH	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVIDER
DIW	DEIONIZED WATER
DJ	DOUBLE JOIST
DL	DEAD LOAD
DL	DRAPERY LINER
DMPF	DAMPPROOFING
DN	DOWN
DO	DITTO
DR	DOOR
DR	DRAIN
DRCLSR	DOOR CLOSURE
DS	DOWNSPOUT
DST	DOOR STOP
DT	DRAIN TILE
DUPL	DUPLICATE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EO	ELECTRICAL OUTLET
EP	ELECTRICAL PANEL
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY FLOOR
EQ SP	EQUALLY SPACED
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERECT	ERECTION
ESCAL	ESCALATOR
ESMT	EASEMENT
EST	ESTIMATE
EW	EACH WAY
EXC	EXCAVATE
EXG	EXISTING
EXH HD	EXHAUST HOOD
EXH FN	EXHAUST FAN
EXP	EXPANSION
EXSP	EXPOSED
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F BRK	FIRE BRICK
F/F	FACE TO FACE
FBD	FIBERBOARD
FC	FIRE COATED
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FIN GR	FINISH GRADE
FIN FL	FINISH FLOOR
FL	FINISH
FL	FLASHING
FL	FLOWLINE
FLDG	FOLDING
FLG	FLANGE
FLR	FLOOR
FLR SK	FLOOR SINK
FLR PL	FLOOR PLATE
FLR FIN	FLOOR FINISH
FLT GL	FLOAT GLASS
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FILLER PANEL
FPRF	FIREPROOFING
FRM	FRAME
FRNT	FRONT
FS	FAR SIDE
FS	FLAT SCREEN
FS	FULL SIZE
FSP	FIRE STANDPIPE
FSTNR	FASTENER
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FXTR	FIXTURE
GALV	GALVANIZED
GB	GRAB BAR
GDRL	GUARD RAIL
GEN	GENERAL
GEN CONTR	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GL BLK	GLASS BLOCK
GU LAM	GLUE LAMINATED
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GND	GROUND
GPDW	GYPSUM DRY WALL
GR BM	GRADE BEAM
GR	GRADE
GRTG	GRATING
GUT	GUTTER
GYP	GYPSUM
GYP PLAS	GYPSUM PLASTER
H	HIGH
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HC	HANDICAP
HC	HOLLOW CORE
HCMU	HOLLOW CONCRETE MASONRY UNIT
HD	HEAVY DUTY
HDJT	HEAD JOINT
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HGT	HEIGHT
HLB	HORIZONTAL LOUVER BLINDS
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HNDRL	HAND RAIL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HTG	HEATING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCAND	INCANDESCENT
INL	INLET
INSTL	INSTALLATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
KB	KNEE BRACE
KO	KNOCKOUT
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KWY	KEYWAY
L	LEFT
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LBR	LUMBER
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LD BRG	LOAD BEARING
LDG	LANDING
LF	LINEAR FOOT
LG	LENGTH
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LIN	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LIVE LOAD
LNTL	LINTEL
LOC	LOCATION
LONG	LONGITUDINAL
LRG	LARGE
LS	LUMP SUM
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER
LW PLAS	LIGHTWEIGHT PLASTER
LWC	LIGHTWEIGHT CONCRETE
M	METER
MAINT	MAINTENANCE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBR	MEMBER
MC	METAL CLAD
MC	MOMENT CONNECTION
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLOAD
ME	MATCH EXISTING
ME	MISCELLANEOUS EQUIPMENT
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIL	MILLIMETER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	MATCH LINE
ML	METAL LATH
MLG	METAL LABORATORY CASEWORK
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE
MTD	MOUNTED
MTG	MEETING
MTL	METAL
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
MVBL	MOVABLE
N	NORTH
N/A	NOT APPLICABLE
NEG	NEGATIVE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED/CONTRACTOR INSTALL
OFF	OFFICE
OFOI	OWNER FURNISHED-OWNER INSTALLED
OHD	OVERHEAD DOOR
OPER	OPERABLE
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTA	OPEN TO ABOVE
OTFA	OPEN TO FLOOR ABOVE
OTS	OPEN TO STRUCTURE
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
PAC	PRECAST
PAR	PARALLEL
PARG	PARGING
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PANEL FABRIC
PFP	PRE-FINISHED PANEL
PGBD	PEGBOARD
PH	PHASE
PL	PLATE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
POLY	POLYSTYRENE
POLYISO	POLYISOCYANURATE
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PRKG	PARKING
PROJ	PROJECT
PS	PROJECTION SCREEN
PT	PAINT
PCT	PORCELAIN TILE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RFM	RECESSED FLOOR MAT
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RND	ROUND
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RV	ROOF VENT
RVS	REVERSE
S	SOUTH
S	SEATING
SALV	SALVAGE
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCMU	SOLID CONCRETE MASONRY UNIT
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SF	SYSTEMS FURNITURE
SGL	SINGLE
SHR	SHOWER
SHTHG	SHEATHING
SHVL	SHELVES
SIM	SIMILAR
SJ	SLIP JOINT
SK	SINK
SLA	SLATE
SLP	SLOPE
SLS	SUB-FLOOR LEVELING SYSTEM
SLV	SLEEVE
SM	SHEET METAL
SMLS	SEAMLESS
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPRT	SUPPORT
SQFT	SQUARE FOOT
SQ	SQUARE
SQIN	SQUARE INCH
SQYD	SQUARE YARD
SSK	SERVICE SINK
SS	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STAIN
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STR	STRIP
STL JST	STEEL JOIST
STL PL	STEEL PLATE
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUPPL	SUPPLEMENT
SURF	SURFACE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVB	SHEET VINYL BASE
SVF	SHEET VINYL FLOOR
SYM	SYMBOL
SYMM	SYMMETRICAL
SYST	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	TABLE
TB	TACKBOARD
TB-xx	TEST BORING-xx (E. TB-1)
TC	TOP OF CURB
TD	TRENCH DRAIN
TE	TRANSITION EDGE
TECH	TECHNICAL
TEMP	TEMPORARY
TER	TERRAZZO
THK	THICK
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TNL	TUNNEL
TO	TOP OF
TOF	TOP OF FLANGE
TOFF	TOP OF FINISH FLOOR
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TRNBKL	TURNBUCKLE
TS	TENSILE STRENGTH
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UDR	UNDER
UDRLMNT	UNDERLAYMENT
UF	UFER
UFD	UNDER FLOOR DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
ULT	ULTIMATE
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
V	VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VIB	VIBRATION
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WITH
W/W	WALL TO WALL
W/O	WITHOUT
W	WEST
WC	WATER CLOSET
WCPT	WALL CARPET
WD	WOOD
WDD	WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WFC	WOOD FLOORING
WGL	WIRE GLASS
WH	WALL HUNG
WH	WATER HEATER
WHSE	WAREHOUSE
WL	WIND LOAD
WLD	WELDED
WR	WATER RESISTANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WWM	WELDED WIRE MESH
X SECT	CROSS SECTION

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COA No. CA0029AE

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Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

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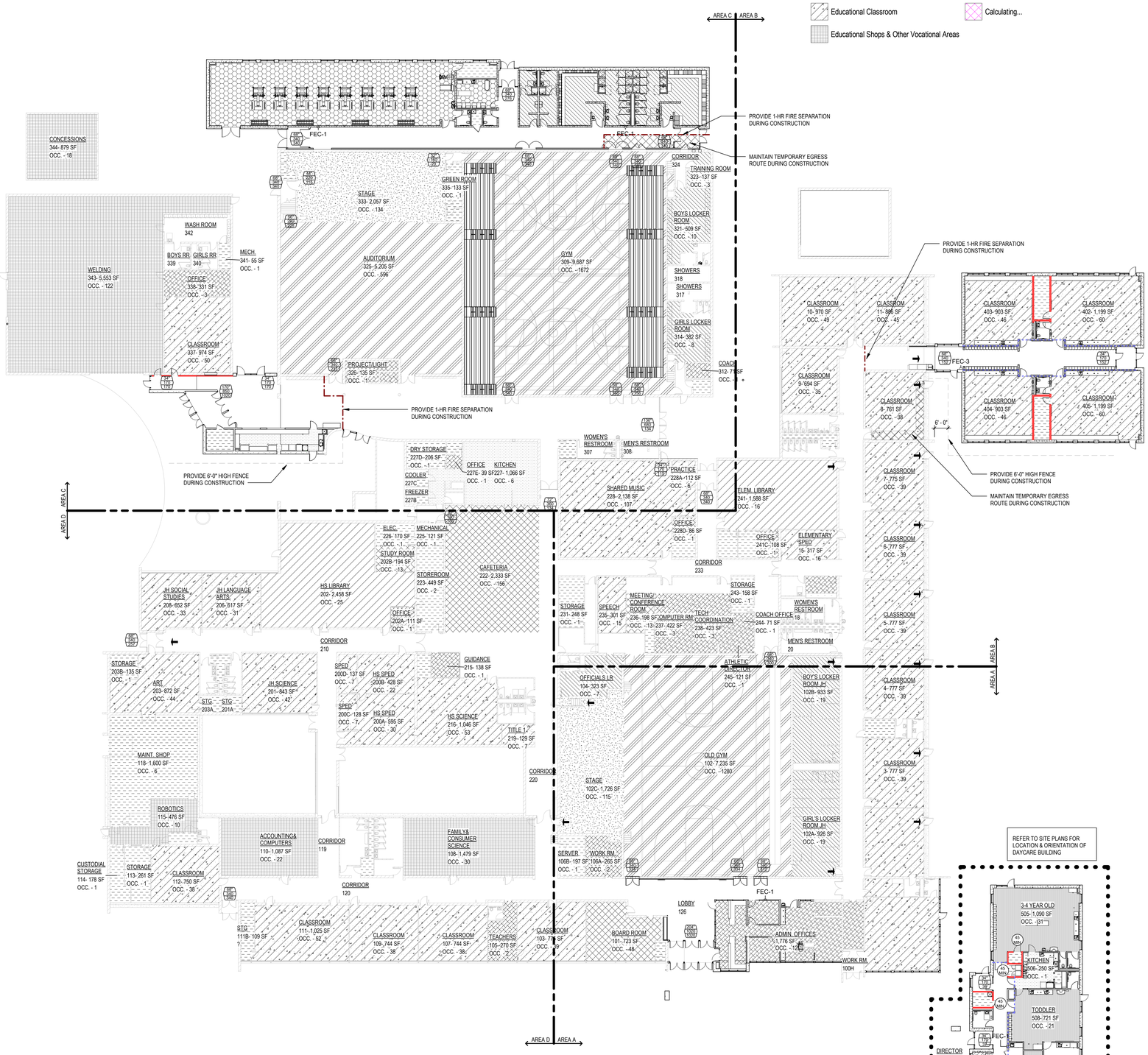
General Notes, Symbols & Abbreviations

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Plot Time Stamp: 5/8/2023 12:29:23 PM
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Occupancy Type Legend

- Accessory Storage Areas, Mechanical Room
- Assembly Concentrated
- Assembly Un-Concentrated
- Business
- Day Care
- Educational Classroom
- Educational Shops & Other Vocational Areas
- Exercise Rooms w/ Equipment
- Kitchen
- Library - Stack Area
- Lockers
- Stages & Platforms
- Calculating...



CODE SYMBOL LEGEND

SYMBOL	DESCRIPTION	PROTECTION ELEMENTS
	CLEAR WIDTH MAX EGRESS LOAD ASSUMED EGRESS LOAD	
55	EXIT - INTERIOR (assembly occ. over 50 and exits from floors.)	
	FIRE EXTINGUISHER	
	FIRE DEPARTMENT CONNECTION (FDC)	
	STANDPIPE	
	HOSE CABINET	
	HOSE CABINET WITH EXTINGUISHER	
	PUBLIC FIRE HYDRANT	
	FIRE EXTINGUISHER SPACING (radius)	
	SMOKE BARRIER	1-hour resistive rated walls. 20-minute door assembly. Smoke dampers.
	1 HOUR FIRE BARRIER (occupancy & incidental use)	1-hour fire barrier wall construction. 1-hour rated door assembly for shaft, exit enclosure, & exit passageway wall. 45-min rated door assembly in other fire barriers. Fire dampers.
	2 HOUR FIRE BARRIER (occupancy)	2-hour fire barrier wall construction. 1 1/2-hour rated door assembly. Fire dampers.
	3 HOUR FIRE BARRIER (occupancy)	3-hour fire barrier wall construction. 3-hour rated door assembly. Fire dampers.
	4 HOUR FIRE BARRIER (occupancy)	4-hour rated wall assembly. 3-hour rated door assembly. Fire dampers.
2	2 HOUR FIRE WALL (building separation)	2-hour fire wall construction. 1 1/2-hour rated door assembly. Fire dampers when ductwork penetration is allowed.
3	3 HOUR FIRE WALL (building separation)	3-hour fire wall construction. 3-hour rated door assembly. Fire dampers when ductwork penetration is allowed.
4	4 HOUR FIRE WALL (building separation)	4-hour fire wall construction. 3-hour rated door assembly. Fire dampers when ductwork penetration is allowed.
	FIRE PARTITION (dwelling / unit separations I-1 & R occupancies)	1-hour resistive rated walls. 45-minute rated door assembly. Fire dampers.
CONF. / A3 50	ROOM DESIGNATION	Room type / Occupancy type Maximum Allowable Occupants
40 90 50	Accumulated occupant loads for complex exit paths.	

GENERAL INFORMATION

LOCATION: Heartland Community School
1501 Front Street
Henderson, NE 68371

AGENCY INFORMATION: Heartland Community Schools

AUTHORITY HAVING JURISDICTION:
Code authority

REASON FOR SUBMITTAL: Addition & Renovation

PROJECT DESCRIPTION

Renovation of main entry, activities entry and administration offices. Addition of new daycare facility, classrooms, weightroom, locker rooms and support spaces.

APPLICABLE CODES

2018 - International Building Code (IBC)
2018 - International Plumbing Code (IPC)
2018 - International Mechanical Code (IMC)
2018 - International Fire Code (IFC)
2020 - National Electric Code (NEC)
Americans With Disabilities Act Accessibility Guidelines (ADAAG)
American National Standards Institute (ANSI) 117.1 Guidelines for Accessible & Useable Buildings & Facilities
2010 - NFPA 110 - Standard for Emergency and Standby Power Systems
2009 - NFPA 90A - Installation of Air Conditioning and Ventilating Systems
2010 - NFPA 72 - National Fire Alarm Code
2009 - NFPA 54 - National Fuel Gas Code
2007 ASHREA 90.1

OCCUPANCY/ STRUCTURAL CLASSIFICATION

Existing building with steel and load bearing masonry structure. Existing roof with wood and steel joists. Exterior walls of additions will be masonry and metal panel with metal stud and CMU backup walls. Interior walls will be metal stud and gypsum board as well as non load bearing cmu. Floors will be concrete slab-on-grade. Roof structure will be steel joists and metal deck. Low slope roof areas will be a membrane roof system atop rigid insulation.

ACTIVE LIFE SAFETY SYSTEMS:

Fire Alarm:	Required/Provided: Per NFPA 72
Smoke Detection:	Required/Provided: Per NFPA 72
Exit Signs:	Required/Provided: Emergency Generator
Emergency Lighting:	Required/Provided: Emergency Generator
Suppression-Automatic:	Required/Provided: Wet System
Fire Extinguishers:	Required/Provided: Per NFPA 10

PASSIVE LIFE SAFETY SYSTEMS:

Corridor ratings:	None.
Stairwells:	1 hr. if less than 4 stories, 2hr. 4 stories or more.
Shafts:	1 hr. if less than 4 stories, 2hr. 4 stories or more.
Occupancy Separations:	None
Fire Separations:	None.

CODE ITEM				
OCCUPANCY CLASSIFICATION:	MIXED USE NON-SEPARATED A3 & E	**TOTAL BUILDING SQUARE FOOTAGE:**		
		FIRST FLOOR EXISTING	107,164 SF	
CONSTRUCTION TYPE:	TYPE IIB	FIRST FLOOR ADDITION	15,857 SF	
		TOTAL	123,021 SF	
INCIDENTAL USE SEPARATIONS:	NA			
		DAYCARE ADDITION	4,446 SF	
BUILDING HEIGHT: (2018 IBC TABLE 504.4)				
ALLOWABLE	3			
ACTUAL	1	**EXIT ACCESS TRAVEL DISTANCE:**		
		"A" OCCUPANCY	250 feet	(2012 LSC 12.2.6.2)
		"E" OCCUPANCY	200 feet	(2012 LSC 14.2.6)
BLDG. SQ. FT. : (2018 IBC TABLE 506.2)		**COMMON PATH OF EGRESS TRAVEL**	(IBC 2018 TABLE 1006.2.1)	
ALLOWABLE PER FLOOR	38,000 SF	"A" OCCUPANCY	75 feet	
MODIFIED PER SECTION 506	66,500 SF	"E" OCCUPANCY	75 feet	
ACTUAL	123,021 SF			
		MAXIMUM DEAD-END CORRIDOR	(IBC 2018 1020.4)	
		"A" OCCUPANCY	20 feet	
FIRE RESISTIVE REQUIREMENTS:		"E" OCCUPANCY	50 feet	
(2018 IBC TABLE 601)				
STRUCTURAL FRAME	0	**EGRESS WIDTH:**	(IBC 2018 1005)	
EXT. BEARING WALLS	0	STAIRWAYS	0.3 inches per occupant	
INT. BEARING WALLS	0	OTHER COMPONENTS	0.2 inches per occupant	
EXT. NON-BEARING WALLS	0			
INT. NON-BEARING WALLS	0	**INTERIOR WALL & CEILING FINISH**		
FLOORS	0		"E" OCCUPANCY	"A" OCCUPANCY
ROOFS	0	Exit Enclosures & Passageways	CLASS A	CLASS B
		Corridors	CLASS A, B	CLASS B
		Rooms & Enclosed Spaces	CLASS A, B	CLASS C
		ELEVATOR RECALL		
		FIRE SERVICE ACCESS ELEV.	Not Required / Not Provided	
		OCCUPANT EVAC. ELEV.	Not Required / Not Provided	
		ELEV. EMERGENCY SHUTDOWN	Required / Provided	

FIRST FLOOR CODE COMPLIANCE PLAN

SCALE: 1" = 20'-0"

TRUE NORTH / PLAN NORTH

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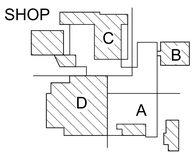
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COA No. CA0029AE

SHEET HISTORY:

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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

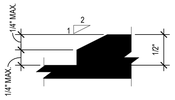
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CE No.: 380-001-21

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Code Compliance Plan

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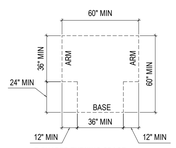
BEVELED CHANGE IN LEVEL

ADA - CHANGES IN LEVEL (303)

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



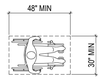
CIRCULAR TURNING SPACE



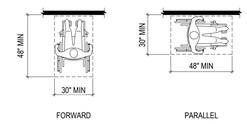
T-SHAPED TURNING SPACE

ADA - TURNING SPACE (304)

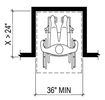
SCALE: 1/4" = 1'-0"



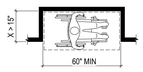
CLEAR FLOOR OR GROUND SPACE



POSITION OF CLEAR FLOOR OR GROUND SPACE



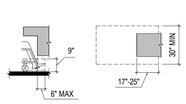
MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH



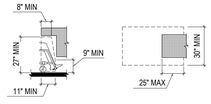
MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

ADA - CLEAR FLOOR OR GROUND SPACE (305)

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



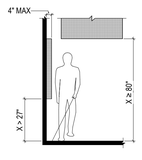
TOE CLEARANCE



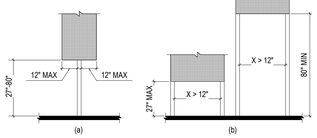
KNEE CLEARANCE

ADA - KNEE AND TOE CLEARANCE (306)

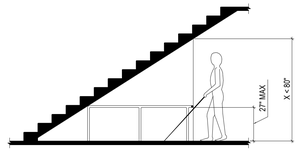
SCALE: 1/4" = 1'-0"



LIMITS OF PROTRUDING OBJECTS



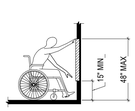
POST-MOUNTED PROTRUDING OBJECTS



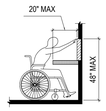
VERTICAL CLEARANCE

ADA - PROTRUDING OBJECTS (307)

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

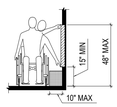


UNOBSTRUCTED FORWARD REACH

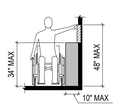


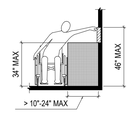
OBSTRUCTED HIGH FORWARD REACH





UNOBSTRUCTED SIDE REACH

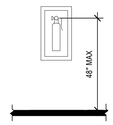




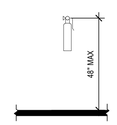
UNOBSTRUCTED HIGH SIDE REACH

ADA - REACH RANGES (308)

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



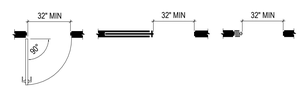
CABINET MOUNTED



WALL MOUNTED

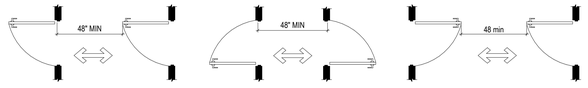
ADA - FIRE EXTINGUISHERS

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

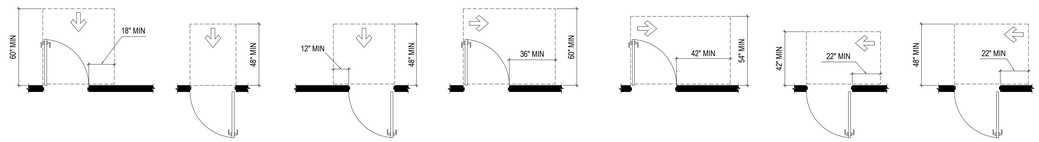


HINGED DOOR SLIDING DOOR FOLDING DOOR

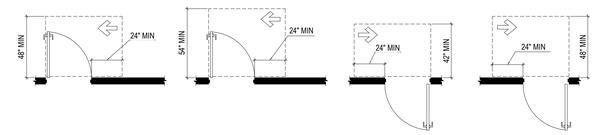
CLEAR WIDTH OF DOORWAYS



DOORS IN SERIES AND GATES IN SERIES

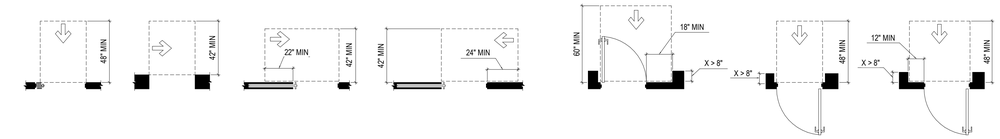


FRONT APPROACH, PULL SIDE | FRONT APPROACH, PUSH SIDE | FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH | HINGE APPROACH, PULL SIDE | HINGE APPROACH, PULL SIDE | HINGE APPROACH, PUSH SIDE | HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



LATCH APPROACH, PULL SIDE | LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER | LATCH APPROACH, PUSH SIDE | LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



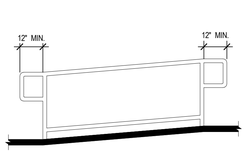
FRONT APPROACH | SIDE APPROACH | POCKET OR HINGE APPROACH | STOP OR LATCH APPROACH | PULL SIDE | PUSH SIDE | PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

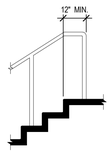
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

ADA - DOORS, DOORWAYS, AND GATES (404)

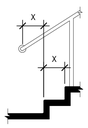
SCALE: 1/4" = 1'-0"



TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

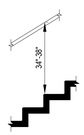


HANDRAIL EXTENSION AT TOP OF STAIRS



NOTE: X = TREAD DEPTH

HANDRAIL EXTENSION AT BOTTOM OF STAIRS



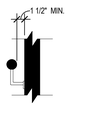
STAIRS



RAMPS



WALKING SURFACES



HANDRAIL CLEARANCE

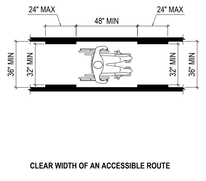


HANDRAIL PROJECTIONS BELOW GRIPPING SURFACE

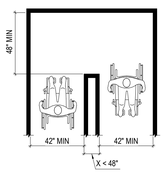
*RAILINGS SHOWN ARE FOR REFERENCE ONLY. REFER TO DESIGN DOCUMENTS FOR RAILING DESIGN.

ADA - HANDRAILS (505)

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

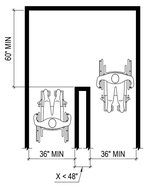


CLEAR WIDTH OF AN ACCESSIBLE ROUTE



180 DEGREE TURN

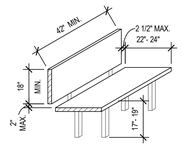
CLEAR WIDTH AT TURN



180 DEGREE TURN (EXCEPTION)

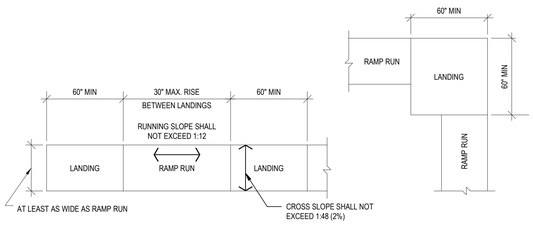
ADA - WALKING SURFACES (403)

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



ADA - BENCHES (903)

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

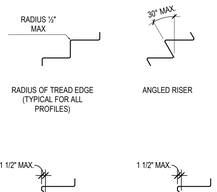


STRAIGHT CHANGE IN DIRECTION

RAMP LANDINGS

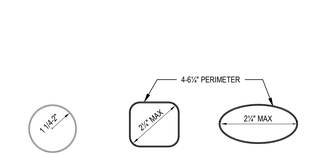
ADA - RAMPS (405)

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



ADA - STAIR NOSINGS (504)

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

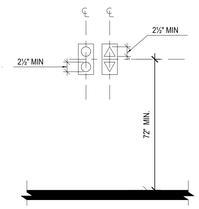


CIRCULAR CROSS SECTION NON-CIRCULAR CROSS SECTIONS

*REFER TO DESIGN DOCUMENTS FOR RAILING DESIGN.

ADA - HANDRAIL PROFILES (505)

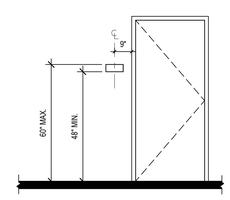
SCALE: 3/8" = 1'-0"



VISIBLE HALL SIGNALS

ADA - ELEVATORS (407)

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



ADA - SIGNAGE MOUNTING (703)

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

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Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED	-	-

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

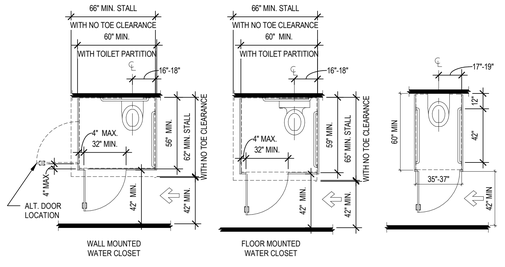
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ADA Details

G0.20

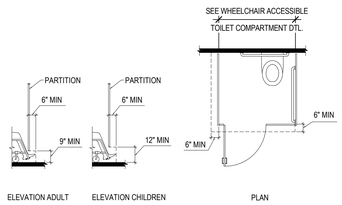
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File Location/Name: BIM 360/380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

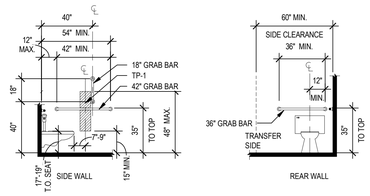
NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE

AMBULATORY ACCESSIBLE TOILET COMPARTMENT



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE
NOTE: TOE CLEARANCE NOT REQUIRED WHEN FLOOR SPACE IS INCREASED PER WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DETAIL.

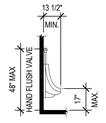


GRAB BARS AT WATER CLOSETS

NOTE: ALL DIMENSIONS ARE TO FINISH FACE OF WALL SURFACE

ADA - WATER CLOSETS AND TOILET COMPARTMENTS (604)

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

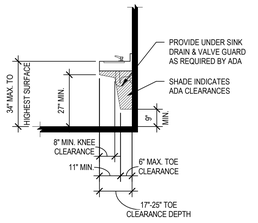


ACCESSIBLE URINAL

NOTE: PROVIDE 30" X 48" CLEAR SPACE IN FRONT OF URINAL

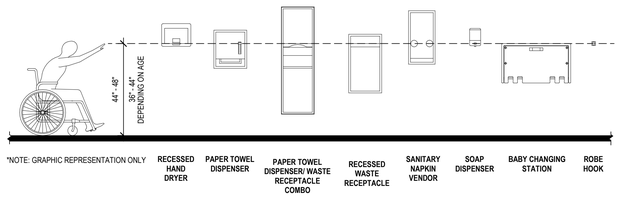
ADA - URINALS (605)

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



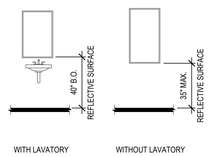
ADA - LAVATORIES (606)

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



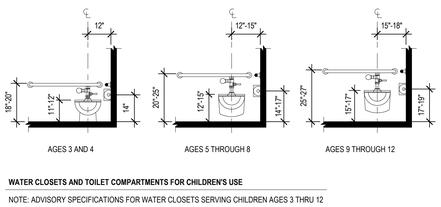
ADA - TOILET ROOM ACCESSORIES

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



ADA - MIRRORS (603.3)

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

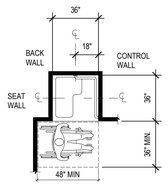


WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE

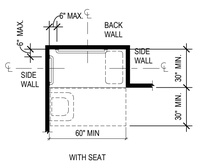
NOTE: ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THRU 12

WATER CLOSETS SERVING CHILDREN (604.9)

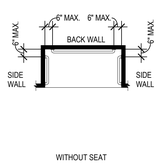
SCALE: 3/8" = 1'-0"

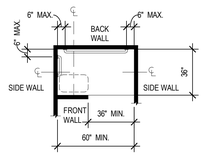


TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

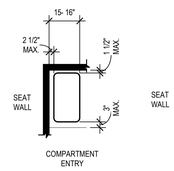


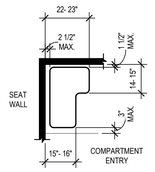
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

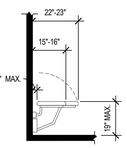




ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

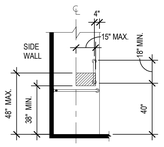




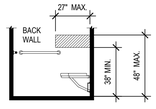


ADA - SHOWER SEATS (610)

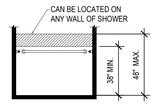
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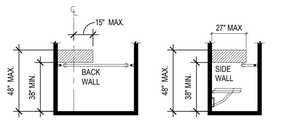


TRANSFER TYPE SHOWER COMPARTMENT



STANDARD ROLL-IN TYPE SHOWER COMPARTMENT

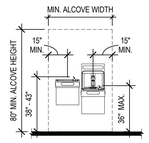


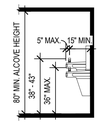


ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

ADA - SHOWER COMPARTMENTS (608)

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





ADA - WATER COOLER & BOTTLE FILLERS (602)

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

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Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED - -

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

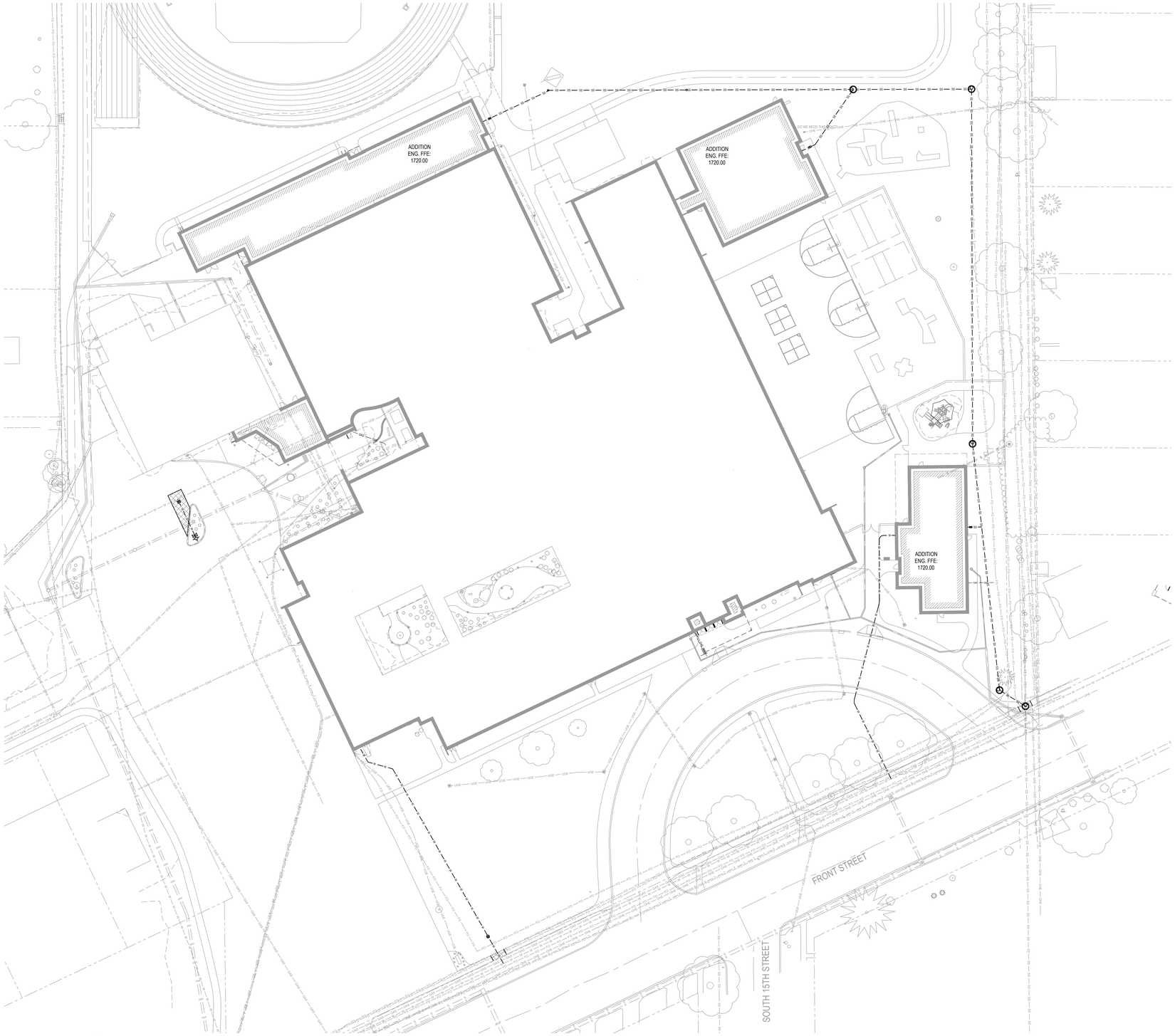
CE No.: 380-001-21

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ADA Details

G0.21

Plot Time Stamp: 5/8/2023 12:30:20 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt



SITE UTILITY PLAN
SCALE: 1"=30'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IF ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE. A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
6. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND.

SANITARY SERVICE NOTES

1. SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
2. AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. IN THOSE INSTANCES WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 18 INCHES, ABOVE THE TOP OF THE SANITARY SEWER OR THE SANITARY SEWER IS LOCATED ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED USING A 20 FOOT LENGTH OF PVC PRESSURE PIPE, MEETING THE REQUIREMENTS OF AWWA C900 FOR DR18, PRESSURE RATING 150 PSI, CENTERED ON THE WATER MAIN.
3. ALL SANITARY SEWER WILL BE DONE UNDER A PLUMBERS PERMIT, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
4. PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE AIR TESTED BY THE CONTRACTOR @ 5 LBS FOR 15 MINUTES, IN ACCORDANCE WITH THE LINCOLN PLUMBING CODE.
5. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN TV INSPECTED AND THE COST OF SUCH WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SEWER WITH INSTALLATION.
6. REFER TO MECHANICAL PLANS FOR SANITARY SEWER TIE-INS WITH BUILDING.

WATER SERVICE NOTES

1. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR.
2. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR.
3. WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN, SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
4. AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN.
5. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
6. ALL WATER METERS, PUMPS, AND BACKFLOW PREVENTERS ARE LOCATED INSIDE BUILDING. REFER TO ARCHITECTURAL PLANS FOR DESIGN AND LOCATIONS.
7. WATER SERVICE PIPE SHALL HAVE A 5.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
8. SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
9. REFER TO MECHANICAL PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.

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Engineering Contact: TJ Schirmer
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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOUCMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

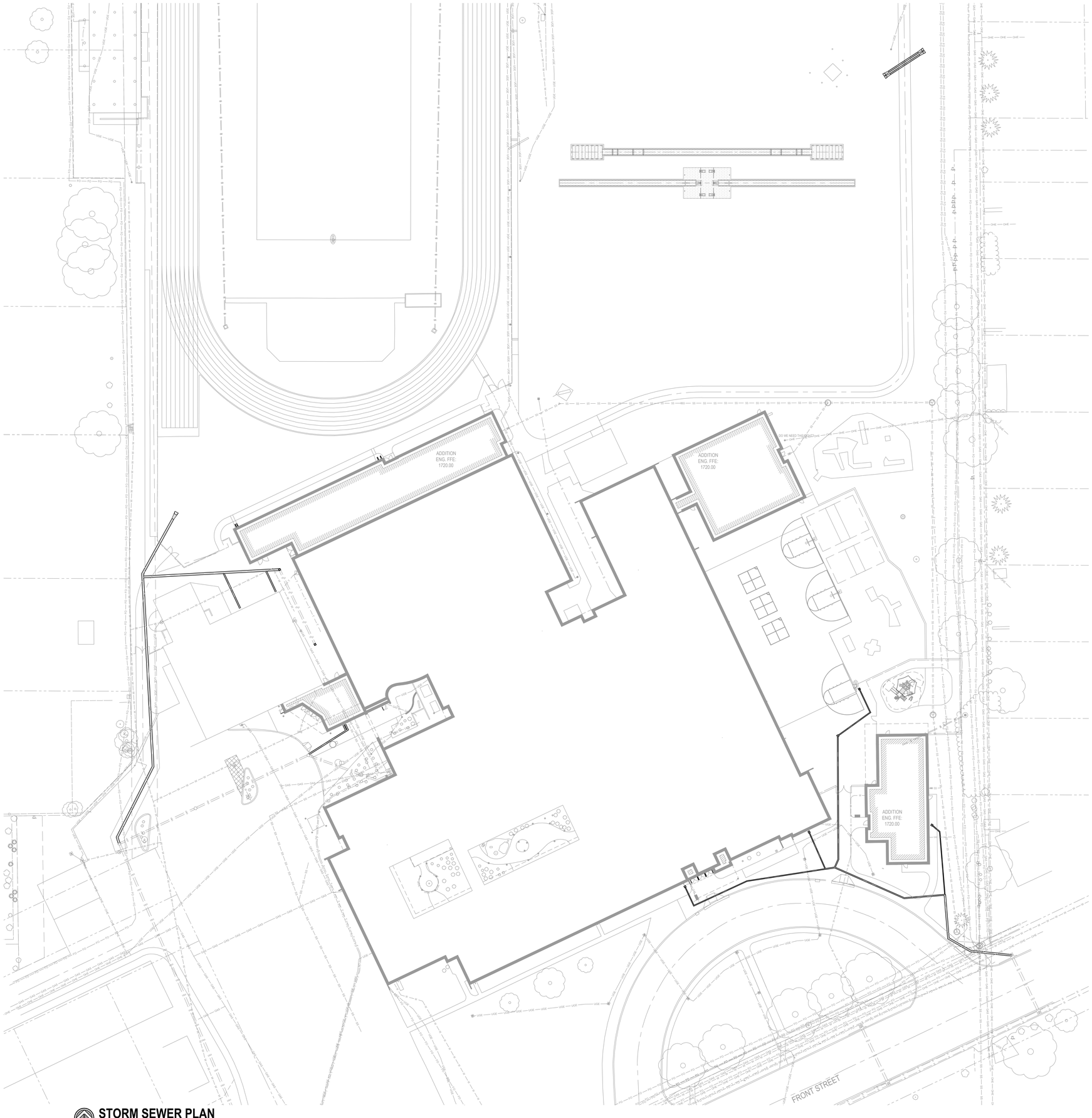
DRAFT

PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

Site Utility Plan

C1.01

Plot Time Stamp: 5 / 08 / 2023 11:51:51 AM
File Location/Name: \\Cep-lh-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-C101.dwg



GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IF ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
6. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND.

STORM SEWER NOTES

1. ALL STATIONING AND DIMENSIONS ARE TO BE CENTERLINE OF VAULT UNLESS OTHERWISE NOTED.
2. ALL STORM SEWER PIPE MATERIAL TO CONFORM TO LOCAL CODES.

NOTES

NOTE A - CONNECT TO BUILDING DOWNSPOUT
6 INSTALL 1 - DOWNSPOUT CONNECTION.
C3.01 REF DETAIL

STORM SEWER PLAN

SCALE: 1"=30'-0"

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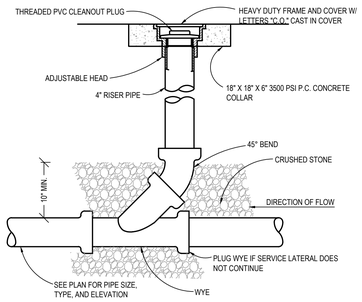
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PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

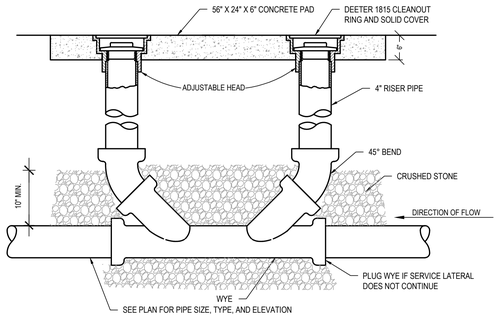
Storm Sewer Plan

C2.01

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1 SEWER CLEAN-OUT
NO SCALE



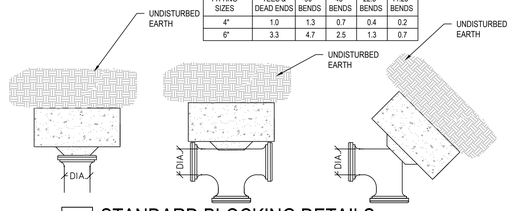
2 DOUBLE CLEAN-OUT
NO SCALE

NOTES

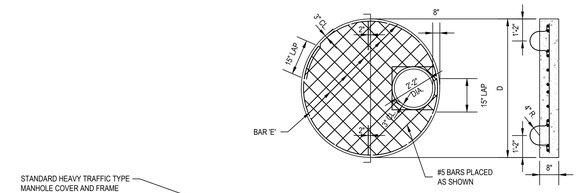
1. CARE SHALL BE EXERCISED TO ASSURE JOINT, INCLUDING BOLTS, WILL BE ACCESSIBLE.
2. ALL PORTLAND CEMENT CONCRETE SHALL BE CITY SPECIFIED MIX.
3. THIS DETAIL IS FOR VERTICAL, AS WELL AS HORIZONTAL PIPE RUNS.
4. MEGA LUGS/ RETAINER GLANDS ON EACH MECHANICAL JOINT

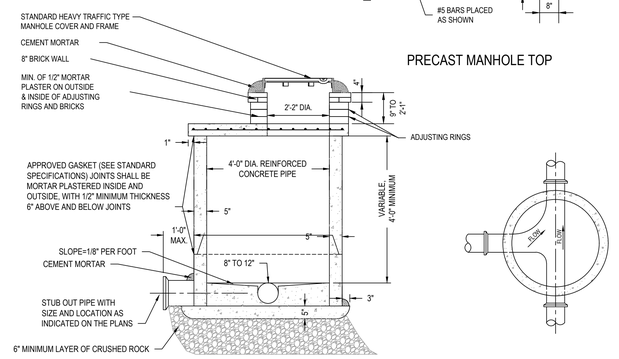
BEARING AREA OF BLOCKING IN SQ.FT.

FITTING SIZES	TEES & DEAD ENDS	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
4"	1.0	1.3	0.7	0.4	0.2
6"	3.3	4.7	2.5	1.3	0.7



3 STANDARD BLOCKING DETAILS
NO SCALE





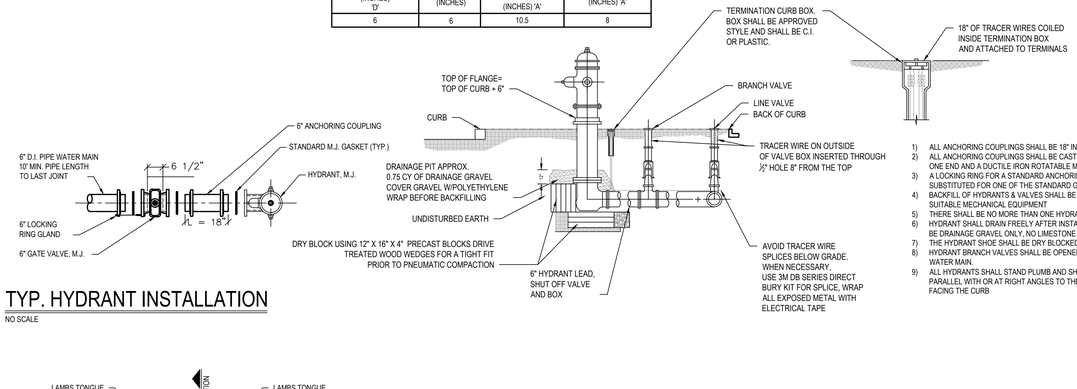
PRECAST MANHOLE TOP

1) MANHOLES SHALL BE CONSTRUCTED OF CONCRETE
2) ALL MANHOLES ARE TO BE CONSTRUCTED CIRCULAR IN PLAN SIMILAR TO DRAWING.
3) CONCRETE IN MANHOLE SHALL BE NDOR CLASS 47-B CONCRETE.
4) THE CAST IRON MANHOLE RING SHALL SET IN A BED OF MORTAR, AND CAREFULLY ADJUST TO PROPOSED GRADE
5) MANHOLE FLOOR SHALL BE FINISHED TO A SMOOTH SURFACE
6) PLACE VERTICAL SIDE OF TAPER SECTION FARTHEST FROM BACK OF CURB
7) PIPE FITTINGS SHALL BE SOLVENT WELDED.

4 WASTEWATER MANHOLE

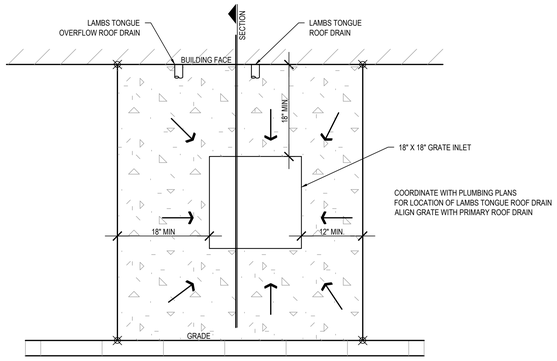
NUMBER OF FITTINGS REQUIRED							
HYDRANT ASSEMBLY	5 1/4" PUMPER HYDRANT	6" GATE VALVE, M.J.	6" ANCHORING COUPLING, M.J.	6" ANCHORING ELBOW, M.J.	D x 6" TEE, M.J.	D x 6" SWIVEL TEE, M.J.	R.C. THRUST COLLAR (TYPE C)
TYPE V	1	1	1				

TEE CONNECTION DIMENSIONS			
MAIN RUN SIZE (INCHES) 'D'	BRANCH SIZE (INCHES)	BRANCH LENGTH SWIVEL TEE (INCHES) 'A'	BRANCH LENGTH (INCHES) 'A'
6	6	10.5	8

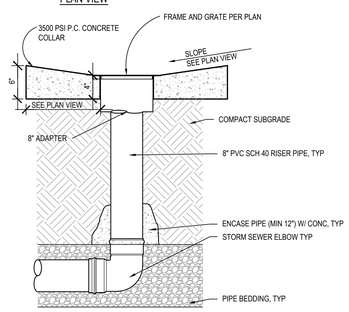


1) ALL ANCHORING COUPLINGS SHALL BE 18" IN LENGTH
2) ALL ANCHORING COUPLINGS SHALL BE CAST WITH AN INTEGRAL M.J. GLAND ON ONE END AND A DUCTILE IRON ROTATABLE M.J. GLAND ON THE OTHER END.
3) A LOCKING RING FOR A STANDARD ANCHORING COUPLING SHALL BE SUBSTITUTED FOR ONE OF THE STANDARD GLANDS ON THE 8" GATE VALVE.
4) BACKFILL OF HYDRANTS & VALVES SHALL BE COMPACTED BY HAND WITH SUITABLE MECHANICAL EQUIPMENT
5) THERE SHALL BE NO MORE THAN ONE HYDRANT EXTENSION
6) HYDRANT SHALL DRAIN FREELY AFTER INSTALLATION. DRAIN MATERIAL SHALL BE DRAINAGE GRAVEL ONLY, NO LIMESTONE MATERIAL
7) THE HYDRANT SHOE SHALL BE DRY BLOCKED, NO POUR IN PLACE BLOCKING
8) HYDRANT BRANCH VALVES SHALL BE OPENED PRIOR TO PRESSURE TESTING WATER MAIN.
9) ALL HYDRANTS SHALL STAND PLUMB AND SHALL HAVE THEIR NOZZLES PARALLEL WITH OR AT RIGHT ANGLES TO THE CURB, WITH THE PUMPER NOZZLE FACING THE CURB

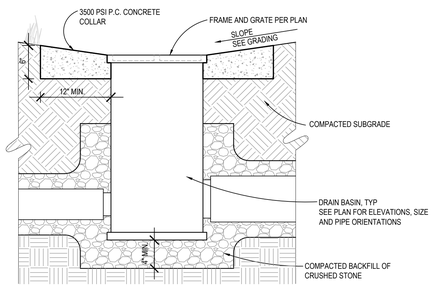
5 TYP. HYDRANT INSTALLATION
NO SCALE



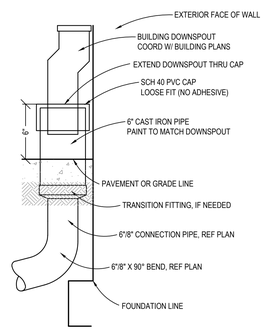
PLAN VIEW



6 INLINE DRAIN DETAIL
NO SCALE



7 NYLOPLAST DRAIN BASIN
NO SCALE



8 DOWNSPOUT CONNECTION
NO SCALE

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Plot Time Stamp: 5 / 08 / 2023 11:52:49 AM
File Location/Name: \\fcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-C301.dwg

SYMBOLS LEGEND

- MONUMENT FOUND
- CONTROL POINT
- BENCHMARK
- ELECTRICAL PEDESTAL
- ELECTRICAL PULLBOX
- LIGHT POLE
- POWER POLE
- GUY WIRE
- FLAG POLE
- SIGN
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TELEVISION PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- SHRUB
- CONIFEROUS TREE
- DECIDUOUS TREE

- EXISTING CONTOUR
- PROPERTY LINE
- EASEMENT LINE
- BUILDING SETBACK LINE
- OVERHEAD BUILDING LINE
- SHRUB PERIMETER LINE
- OVERHEAD ELECTRICAL LINE
- UNDERGROUND ELECTRICAL LINE
- UNDERGROUND FIBER OPTIC LINE
- UNDERGROUND NATURAL GAS LINE
- UNDERGROUND SANITARY SEWER LINE
- UNDERGROUND STORM SEWER LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND TELEVISION LINE
- UNDERGROUND WATER LINE
- LIMITS OF WORK
- CONTRACTOR STAGING & PARKING
- CONSTRUCTION FENCE

DEMO LEGEND:

- CONCRETE PAVEMENT
- CLEAR & GRUB TREE

GENERAL NOTES & INFORMATION

1. THE SURVEY WAS COMPLETED BY JEO CONSULTING GROUP ON JULY 6, 2022. PHONE: 308-381-7428.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS RECEIVED. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. FURTHER VERIFICATION MAY BE REQUIRED TO IDENTIFY UTILITIES NOT SHOWN HEREIN. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666. FIELD VERIFY ALL SITE SPECIFIC UTILITIES.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN, ANY DISCREPANCIES NOTICED IN FIELD SHALL BE RELAYED TO LANDSCAPE ARCHITECT / OWNER PRIOR TO COMMENCEMENT OF ANY WORK.
4. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE "ONE CALL" SYSTEM. CALL BOTH ENTITIES BEFORE YOU DIG. CALL THE UNDERGROUND HOTLINE FOR UTILITY LOCATIONS AT 1-800-331-5666. FIELD VERIFY ALL SITE SPECIFIC UTILITIES. LOCATION FOR EXISTING SITE SPECIFIC UTILITIES IS UNKNOWN.
5. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING PLANTING BEDS, SHRUBS AND TREES TO REMAIN ON SITE. DO NOT PARK, DRIVE OR STACK CONSTRUCTION MATERIALS IN THESE AREAS. REFER TO TREE PROTECTION PLAN FOR MORE DETAILS.
7. THE GENERAL CONTRACTOR SHALL NOT REMOVE OR ALTER ANY PROTECTION FENCING WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND LANDSCAPE ARCHITECT.
8. THE GENERAL CONTRACTOR SHALL MAINTAIN THE EXISTING IRRIGATION SYSTEM DURING CONSTRUCTION AND MODIFY AREAS AS SHOWN ON THE PLANS TO ACCOMMODATE NEW CONSTRUCTION.
9. REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION ON SITE ACCESS, SITE USE AND AVAILABLE STORAGE AREAS.
10. NOTE FOR ALL LIGHT POLES BEING REMOVED: REMOVE LIGHT FIXTURE AND TURN OVER TO OWNER, TYP.

LEGAL DESCRIPTION

PT E 250' LOT 1, E 250' LOT 2-10, LOT 11 E OF W 250', W 420' LOT 12-14 & N 1/2 VAC HICKORY ST REGIER ADD CITY OF HENDERSON AND LOT 24-33, PT LOT 34, ALL LOTS 35-51, VAC ADJ STREET REFSHUAGE PLACE CITY OF HENDERSON

DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL POINTS.
2. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER AND THE CITY OF HENDERSON.
3. CONTINUOUS PEDESTRIAN & VEHICULAR ACCESS SHALL BE MAINTAINED FOR THE EXISTING PROPERTY AT ALL TIMES FOR THE DURATION OF THE PROJECT. REFER TO PHASING NOTES FOR MORE DETAILS.
4. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ENGINEER), SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.
7. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
8. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED, RELOCATED, AND/OR ABANDONED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES.
9. ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING CONCRETE. THE CONTRACTOR SHALL SAW CUT, FULL DEPTH AT NEAREST JOINT.
10. DO NOT DISRUPT UTILITY SERVICES TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT OR OWNER.
11. DO NOT DISRUPT UTILITY SERVICES TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT.

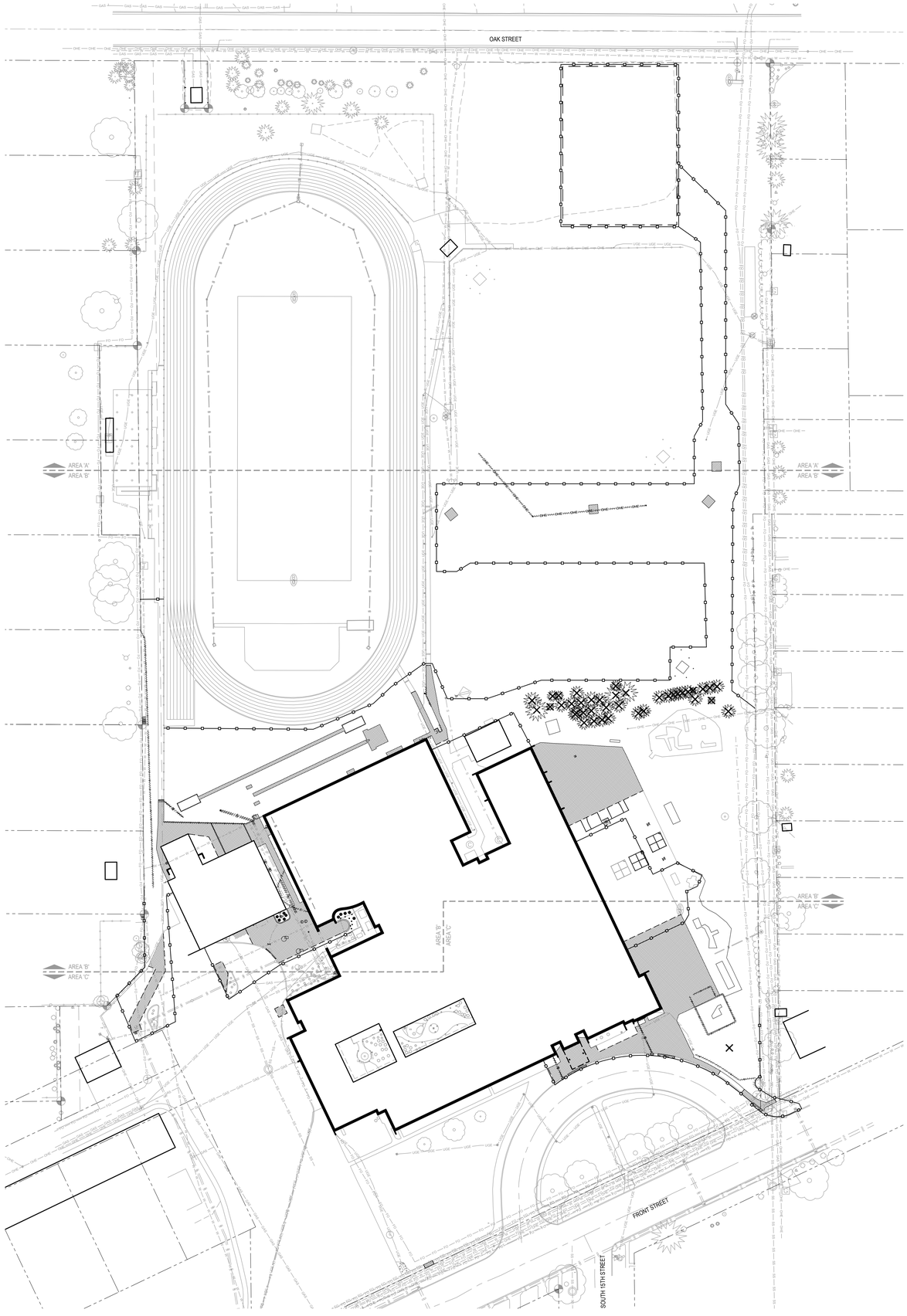
YORK COUNTY LOW DISTORTION PROJECTION

PROJECTION: TRANSVERSE MERCATOR
SCALE FACTOR: 1.0000710
CENTRAL MERIDIAN: -97°30'00"
LATITUDE OF ORIGIN: 40°52'00"
FALSE NORTHING: 20,000 METERS (65,616.667 US FEET)
FALSE EASTING: 30,000 METERS (98,425.000 US FEET)

POINT NAME	NORTHING	EASTING	LONG DESCRIPTION
CP-1	34918.26	12413.10	5/8" REBAR ON THE EAST SIDE OF THE PARKING LOT
CP-2	36168.10	12374.47	5/8" REBAR WITH AN ALUMINUM CAP STAMPED "CP 1-44" ON THE SOUTH SIDE OF OAK STREET
CP-22	34996.17	12682.43	MAG NAIL IN SIDEWALK JOINT NORTH SIDE OF FRONT STREET SOUTH OF DOOR 1
CP-23	35140.86	12164.31	5/8" REBAR IN PARKING LOT ISLAND WEST OF SCHOOL
CP-24	35359.53	12766.53	5/8" REBAR EAST OF SCHOOL DOOR 7
CP-25	35779.88	12459.22	5/8" REBAR ON THE EAST SIDE OF THE TRACK BETWEEN THE TWO CHAIN LINK FENCES
CP-26	36155.42	12779.72	5/8" REBAR SOUTH SIDE OAK STREET AT NE CORNER OF SITE

BENCHMARKS - NAVD 88

POINT NAME	NORTHING	EASTING	ELEVATION	LONG DESCRIPTION
BM-1	34795	12275	1721.46	TOP NUT FIRE HYDRANT NE CORNER FRONT AND 14TH STREET
BM-2	35052	12151	1720.48	TOP 60D CHAIR NAILS NORTH FACE POWER POLE SOUTH SIDE HICKORY STREET WEST OF SCHOOL
BM-3	35609	12311	1720.01	CHISELED "X" TOP NW CORNER STEEL BASE TO SOUTH FIELD GOAL POST
BM-4	35908	12312	1719.41	CHISELED "X" TOP NW CORNER STEEL BASE TO NORTH FIELD GOAL POST
BM-5	36225	12215	1719.42	TOP 60D CHAIR NAILS SOUTH FACE POWER POLE NORTH SIDE OAK STREET
BM-6	36151	12484	1720.61	TOP NUT FIRE HYDRANT SOUTH SIDE OAK STREET NW CORNER GRAVEL PARKING LOT
BM-7	36137	12771	1717.71	CHISELED SQUARE TOP WEST END CONCRETE HEADWALL SOUTH SIDE OAK STREET AT NE CORNER SITE
BM-8	35261	12719	1719.37	TOP NE ANCHOR BOLT OF A BASKETBALL POLE EAST OF SCHOOL DOORS 4 AND 5
BM-9	35126	12973	1720.78	TOP NUT FIRE HYDRANT NW CORNER FRONT AND 16TH STREET
BM-10	34893	12656	1721.18	TOP NUT FIRE HYDRANT SE CORNER FRONT AND 15TH STREET



SITE DEMOLITION PLAN OVERVIEW
SCALE: 1"=50'-0"

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Engineering Contact: TJ Schirmer
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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

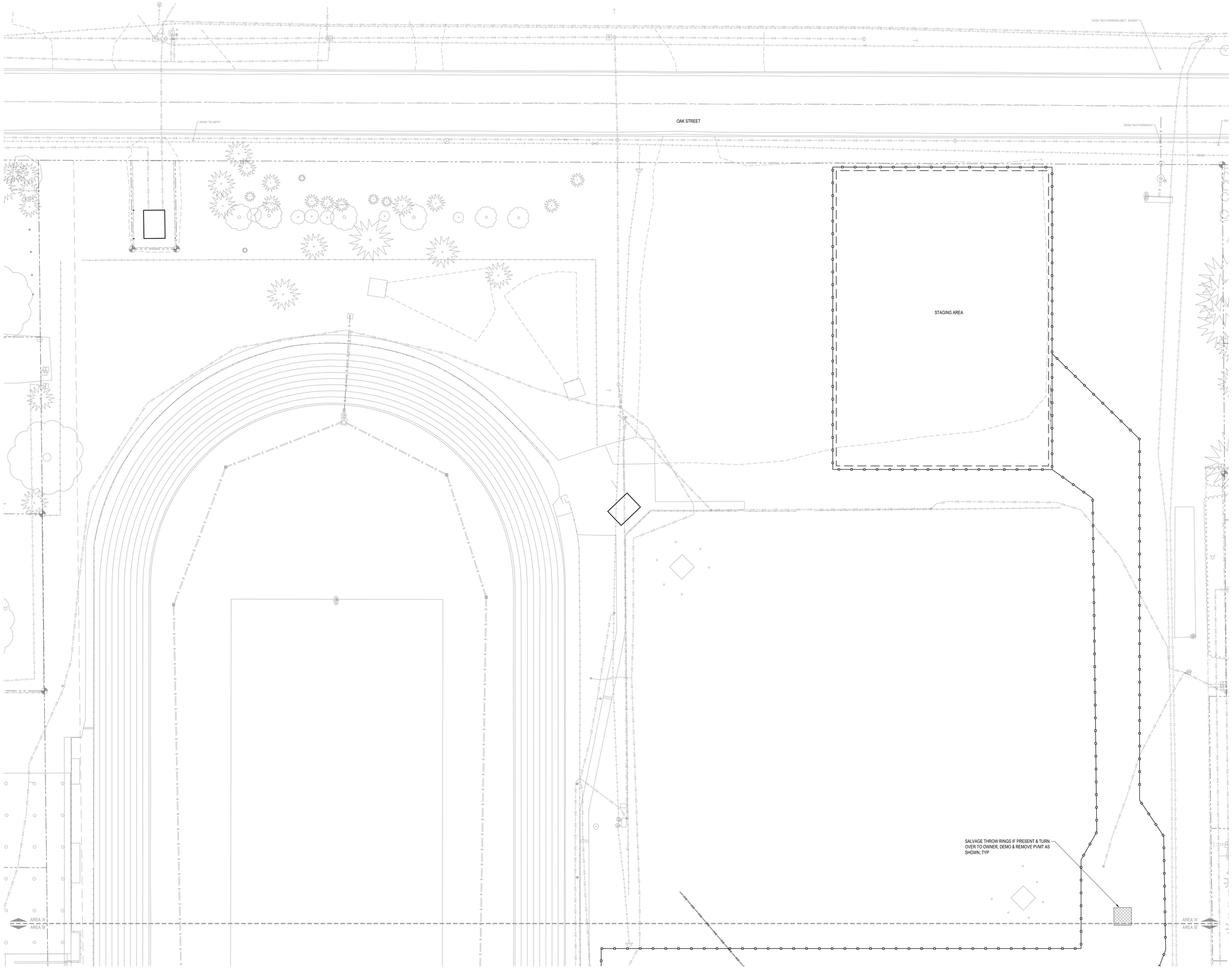
November 18, 2022

DRAFT
PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

Site Demolition Plan Overview

L1.01

Plot Time Stamp: 5 / 08 / 2023 12:19:03 PM
File Location/Name: \\1tcsp-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L1101.dwg



SITE DEMOLITION PLAN AREA 'A'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:19:47 PM
File Location/Name: \\1fcsp-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L102.dwg

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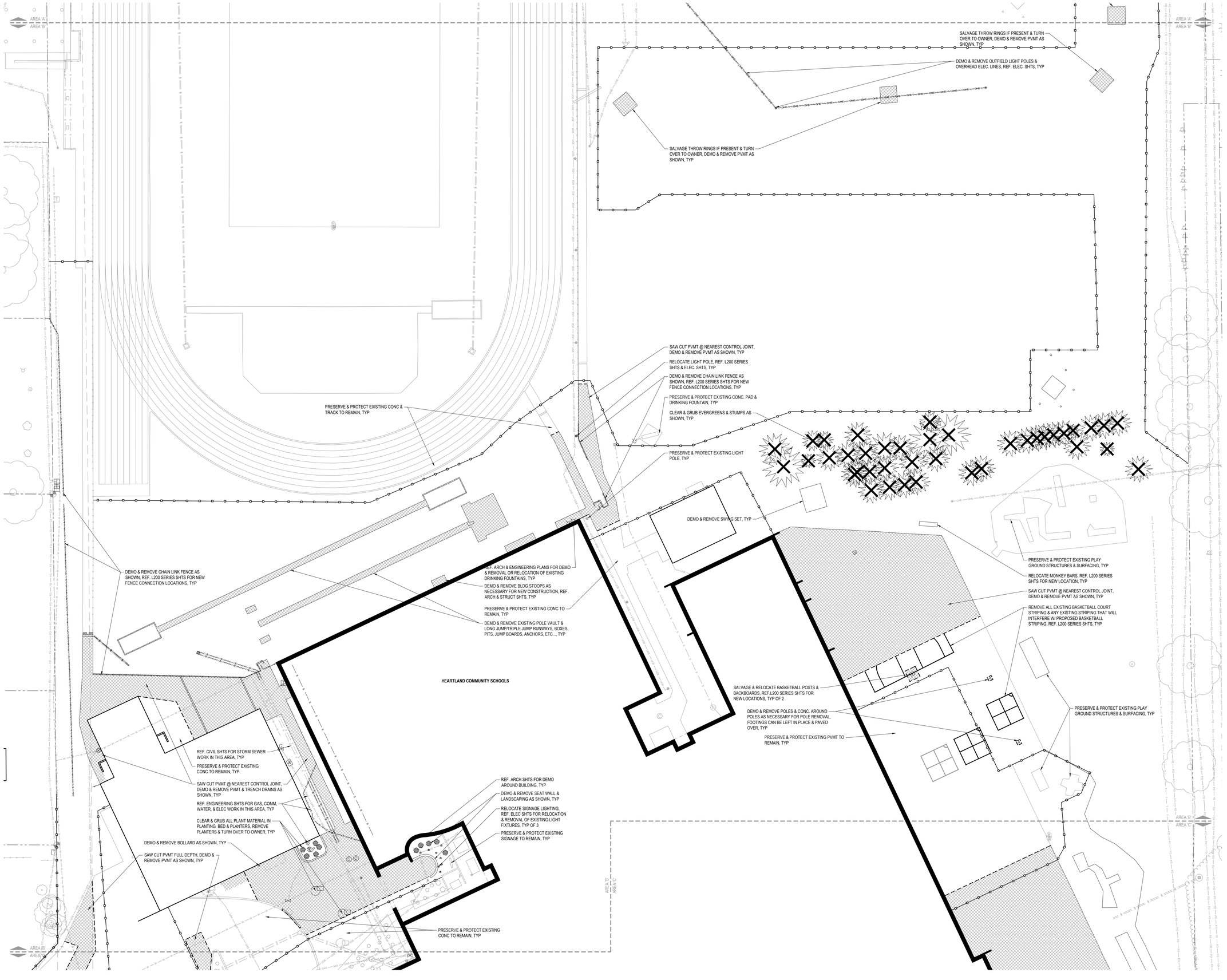
November 18, 2022

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Site Demolition Plan
Area 'A'

L1.02



SITE DEMOLITION PLAN AREA 'B'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:23:31 PM
File Location/Name: \\fcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L103.dwg

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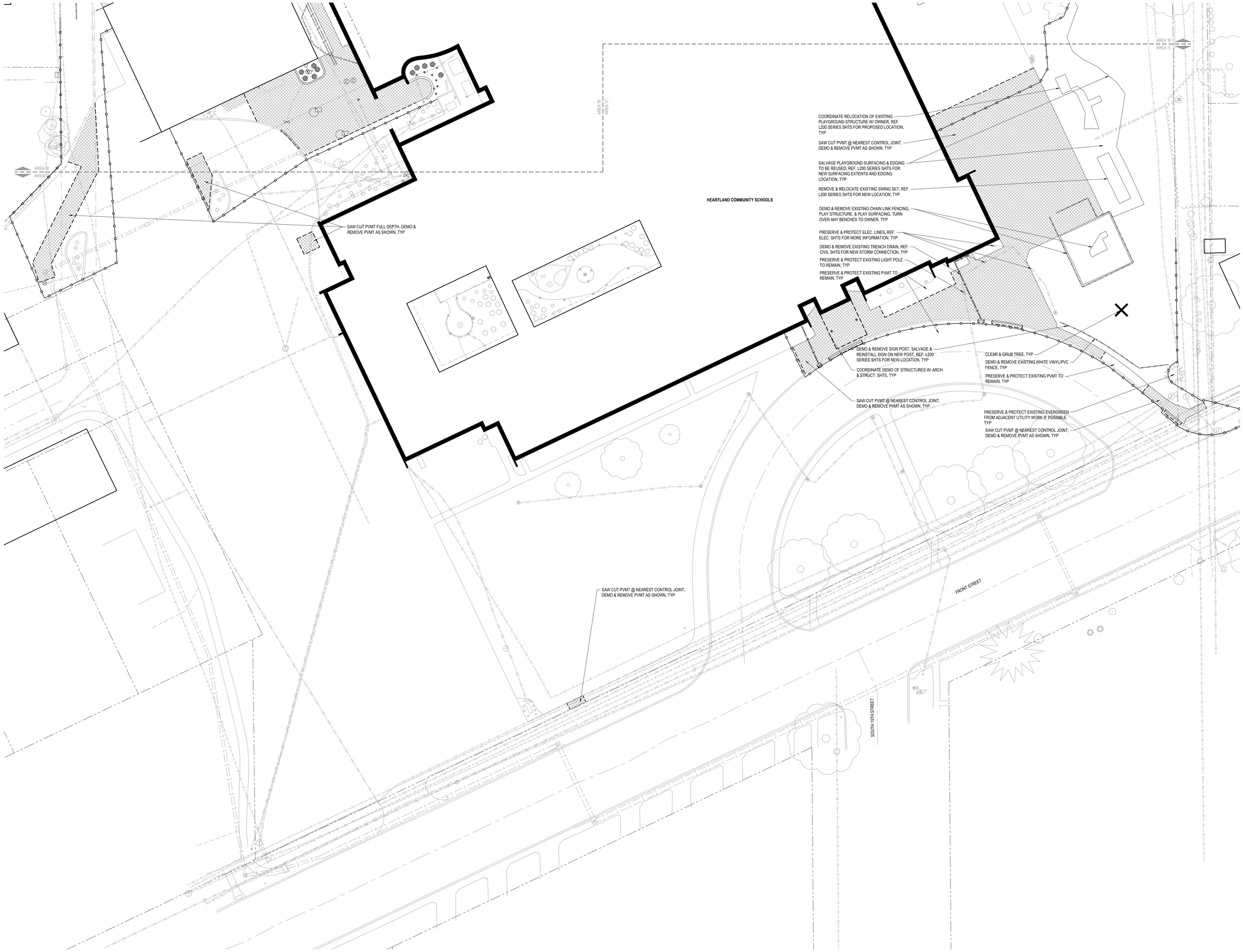
November 18, 2022

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Site Demolition Plan Area 'B'

L1.03



SITE DEMOLITION PLAN AREA 'C'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:26:00 PM
File Location/Name: \\1fcep-in-sv-0041\300-39\1 380-001-21 Heartland Community School (03) AutoCAD\ 380001-L104.dwg

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

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November 18, 2022

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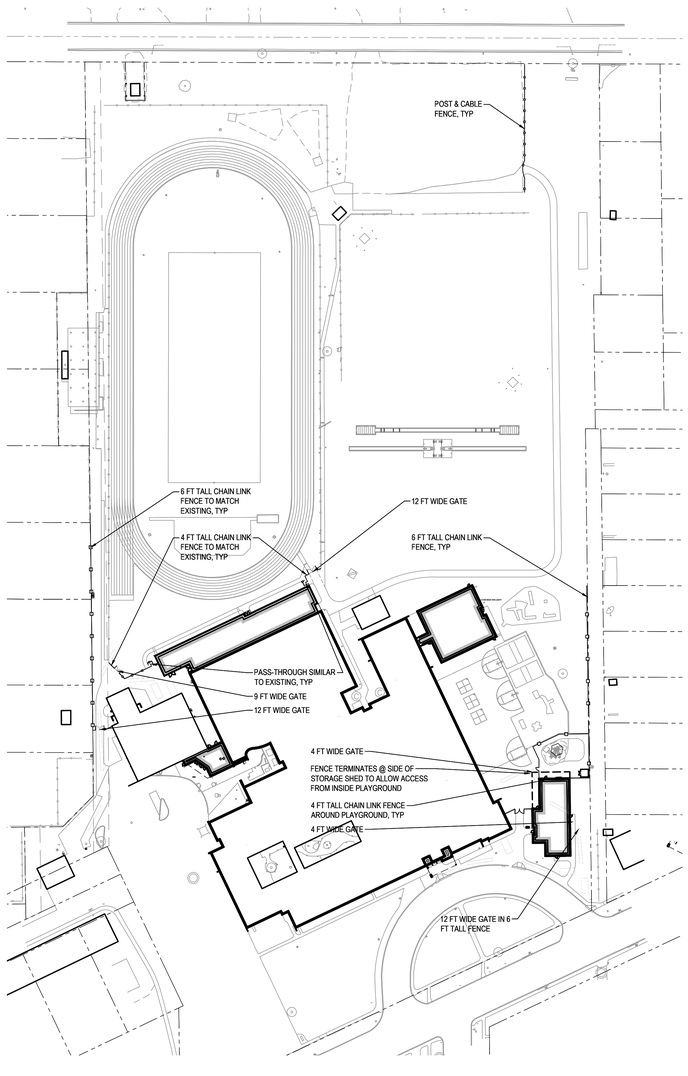
PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

Site Demolition Plan Area 'C'

L1.04

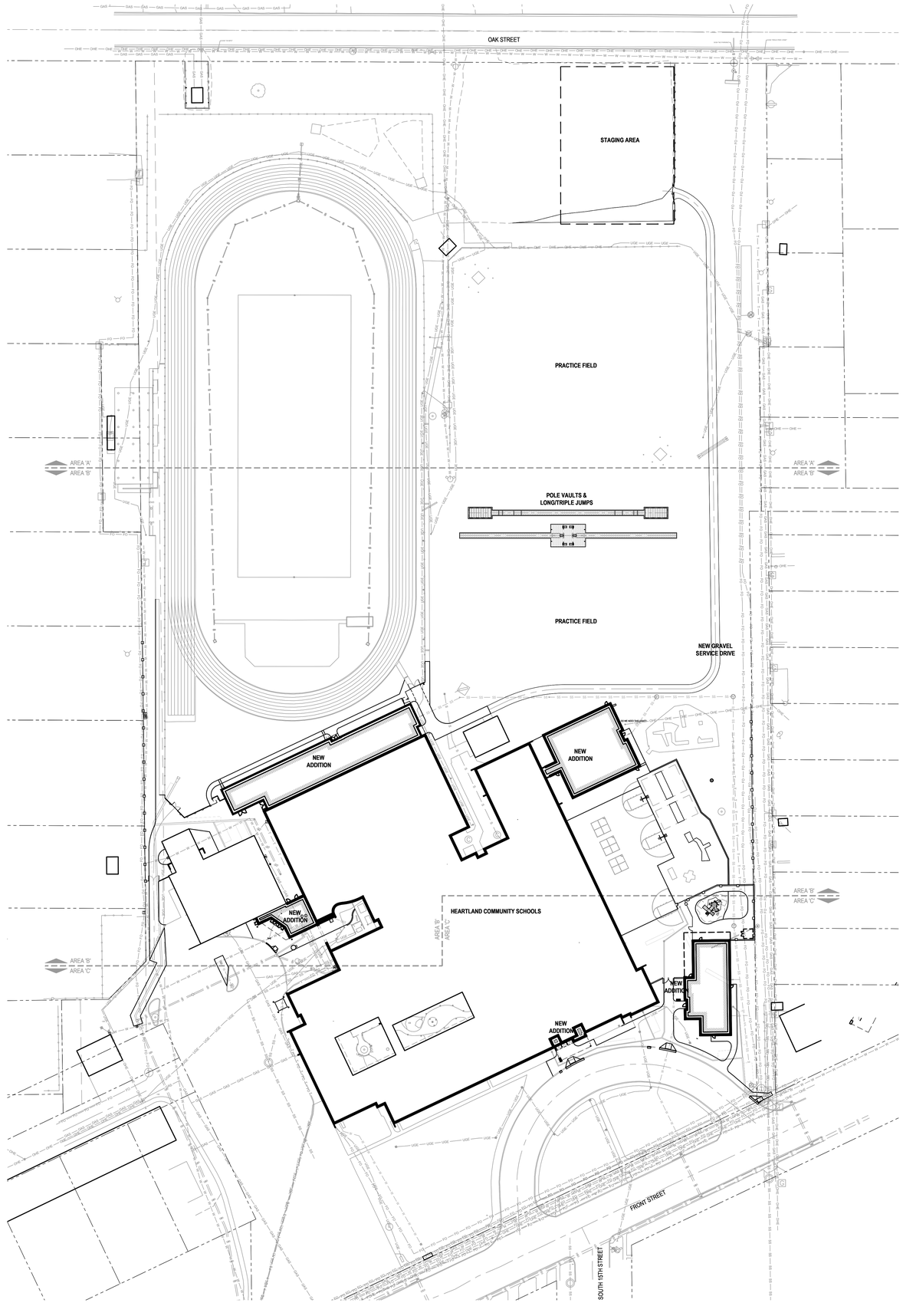
HARDSCAPE LEGEND

- 5" THICK CONCRETE PAVEMENT COLOR: STANDARD GRAY
- 7" THICK CONCRETE PAVEMENT COLOR: STANDARD GRAY
- SYNTHETIC TURF
- PLAYGROUND FALL SURFACING
- SYNTHETIC MULCH SURFACING



SITE FENCING PLAN

SCALE: 1"=80'-0"



SITE LAYOUT PLAN OVERVIEW

SCALE: 1"=50'-0"

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Heartland Community Schools Addition & Renovation

1501 Front Street
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CE No.: 380-001-21

February 16, 2023

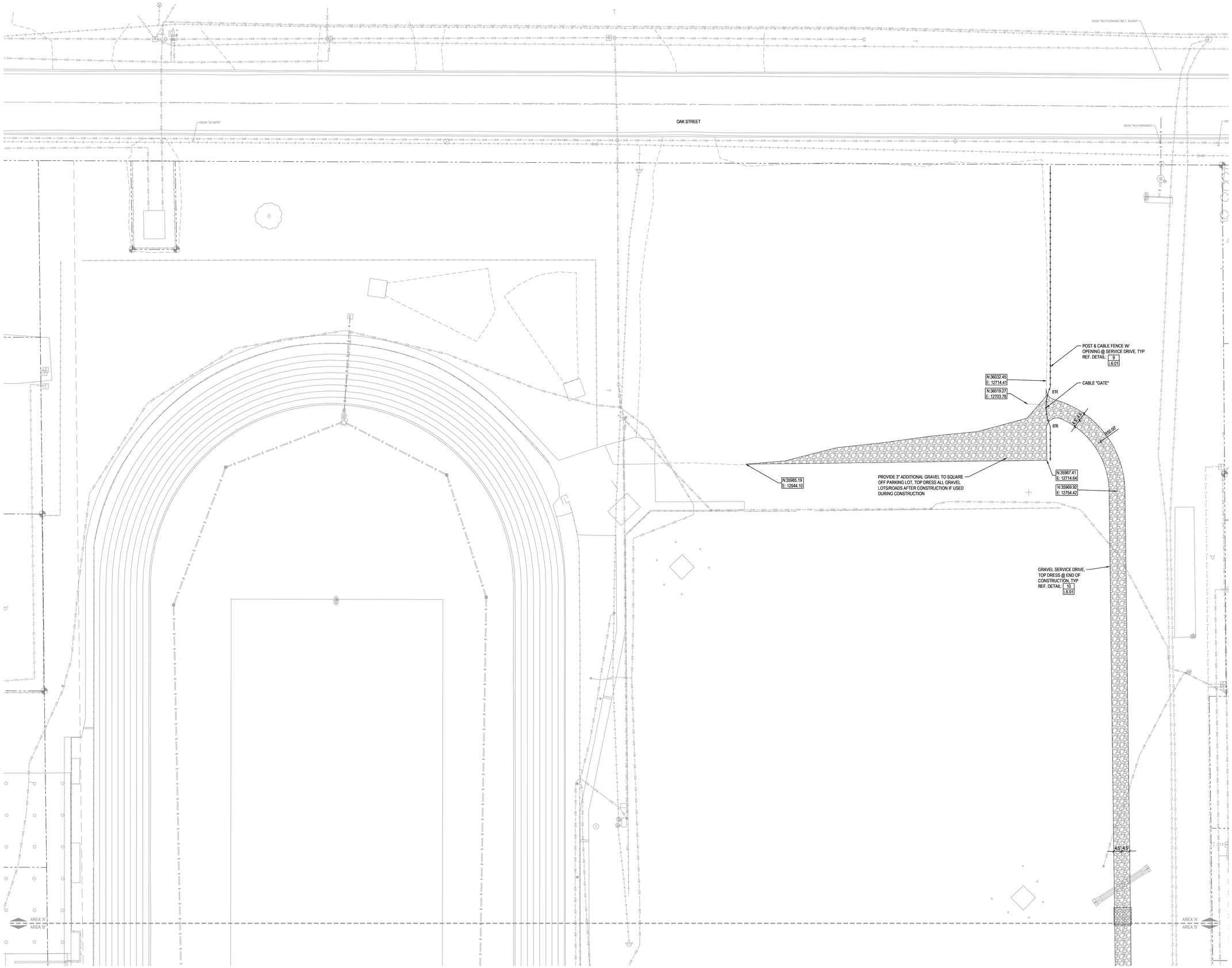
DRAFT

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Site Layout Plan Overview

L2.01

Plot Time Stamp: 5 / 08 / 2023 12:32:38 PM
File Location/Name: \\Ceap-in-sv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L201.dwg



SITE LAYOUT PLAN AREA 'A'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:36:11 PM
File Location/Name: \\fcxp-ln-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L202.dwg

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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 003 12/14/2022 AS PER ADDENDUM #003

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

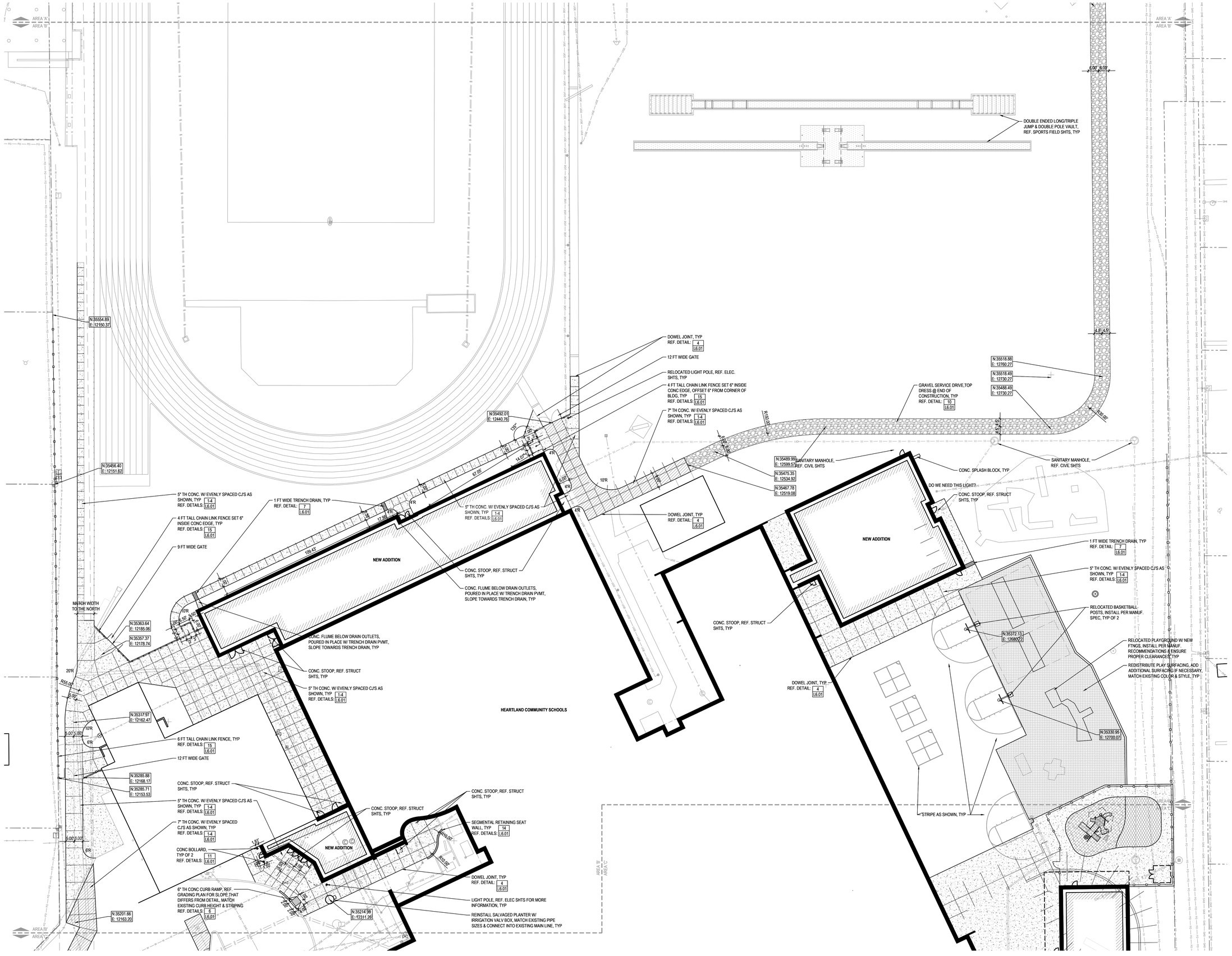
November 18, 2022

DRAFT

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Site Layout Plan
Area 'A'

L2.02



SITE LAYOUT PLAN AREA 'B'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:47:10 PM
File Location/Name: \\fcsp-in-srv-0041.300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L203.dwg

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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 003 12/14/2022 AS PER ADDENDUM #003

Heartland Community Schools Addition & Renovation

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CE No.: 380-001-21

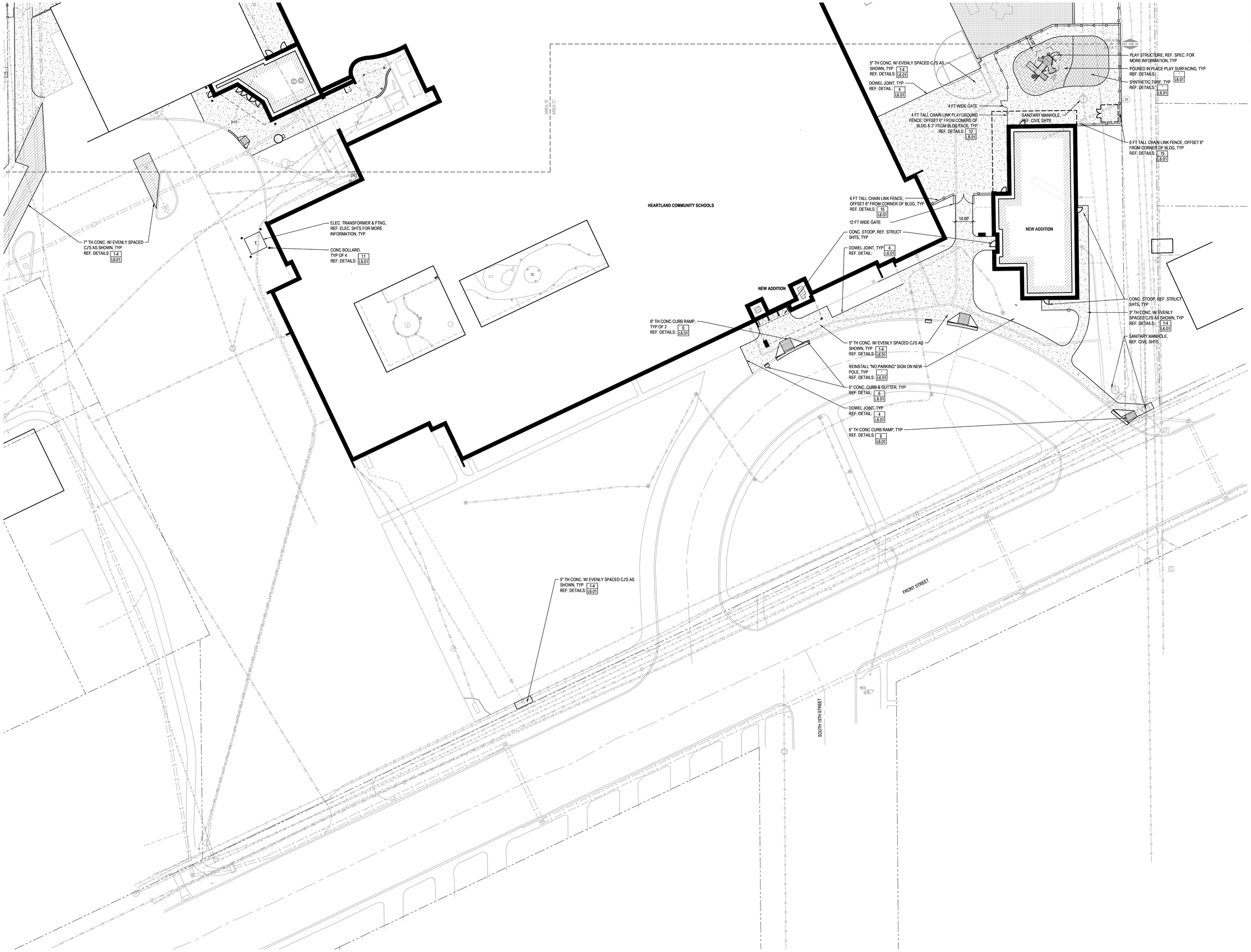
November 18, 2022

DRAFT

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Site Layout Plan
Area 'B'

L2.03



SITE LAYOUT PLAN AREA 'C'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:51:10 PM
File location/Name: \\fcep-in-sv-0041\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L204.dwg

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SHEET HISTORY:

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1501 Front Street
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CE No.: 380-001-21

November 18, 2022

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Site Layout Plan
Area 'C'

L2.04

GRADING NOTES

- CONTRACTOR TO FOLLOW ALL GEOTHECHNICAL RECOMMENDATIONS FOR SUBGRADE PREPARATION
- CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
- THE PROPOSED CONTOURS REPRESENT TOP OF SLAB, OR TOP OF SIDEWALK IN PAVEMENT, IN ALL OTHER AREAS, THEY REPRESENT THE FINISHED GROUND SURFACE.
- ALL LINES SHOWN REPRESENTING PAVEMENT ARE TO BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR WILL BE HELD RESPONSIBLE FOR SETTLEMENT DUE TO IMPROPER COMPACTION.
- SUFFICIENT TOPSOIL SHOULD BE SALVAGED AND STOCKPILED BY THE CONTRACTOR FOR RE-SPREADING IN PERMANENT PLANTING AND TURF AREAS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM THE BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- CONTRACTOR SHALL GRADE TO CONTOURS SHOWN IN GREEN SPACES.
- AT THE COMPLETION OF GRADING, THE CONTRACTOR SHALL REMOVE ANY EXCESS EXCAVATION FROM THE SITE. EXCEPT FOR TOPSOIL REQUIRED FOR RE-SPREAD
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES, AS NECESSARY.
- ANY GEOTECHNICAL/TESTING REPORTS SOLICITED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE OWNER AND THE LANDSCAPE ARCH./ENGINEER.

DEMOLITION NOTES

- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, SIGNING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND PROCEDURES AVAILABLE
- CONTINUOUS PEDESTRIAN & VEHICULAR ACCESS SHALL BE MAINTAINED FOR THE EXISTING PROPERTIES AT ALL TIMES DURING THE DEMOLITION OF THE EXISTING FACILITIES.
- DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF FENCE, FLUMES, FOUNDATIONS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. (EXCEPT WHERE NOTED BY ENGINEER). SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITIONS AND DISPOSAL.
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- ALL SIDEWALK & PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING CONCRETE. THE CONTRACTOR SHALL SAW CUT AT NEAREST JOINT WHERE NECESSARY.
- DO NOT DISRUPT UTILITY SERVICES TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
- CLEAR TREES AS NECESSARY FOR PROPOSED GRADING, PRESERVE & PROTECT ALL TREES TO REMAIN

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS SHOWN ON PLAN. ANY DISCREPANCIES NOTED IN THE FIELD SHALL BE RELAYED TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF WORK.
2. UNDERGROUND IMPROVEMENTS ARE UNKNOWN, UTILITY LOCATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES AND SHALL REPAIR ANY SUCH DAMAGE AT HIS OWN EXPENSE. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED THROUGH THE 'ONE CALL' SYSTEM BEFORE DIGGING.
3. FILL AND CUT AREAS SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL PRIOR TO COMMENCEMENT OF WORK. ALL TOPSOIL SHALL BE REDISTRIBUTED AFTER ROUGH GRADING IS COMPLETED. PRESERVE AND PROTECT THE REDISTRIBUTED TOPSOIL FOR CONSTRUCTION ACTIVITY. MACHINERY SHALL NOT BE ALLOWED TO DRIVE OVER IT.
4. NO CROSS SLOPE GREATER THAN 2% AND NO SIDEWALK SLOPE GREATER THAN 5% SHALL BE ALLOWED FOR ALL SIDEWALKS. IF ANY CONSTRUCTED SLOPES EXCEED ADA REQUIREMENTS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE AREAS WHERE THE DEVIATION OCCURRED.
5. THE FINAL GRADE SHOWN FOR ALL PLANTING BEDS INCLUDES THE 3" LAYER OF MULCH SPECIFIED ON SHEET L4.01. THIS MULCH LAYER SHALL BE ACCOMMODATED WITH THE FINE GRADING.
6. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO FLOW OR POND IN EXCAVATION AREAS.

SOIL LEGEND:

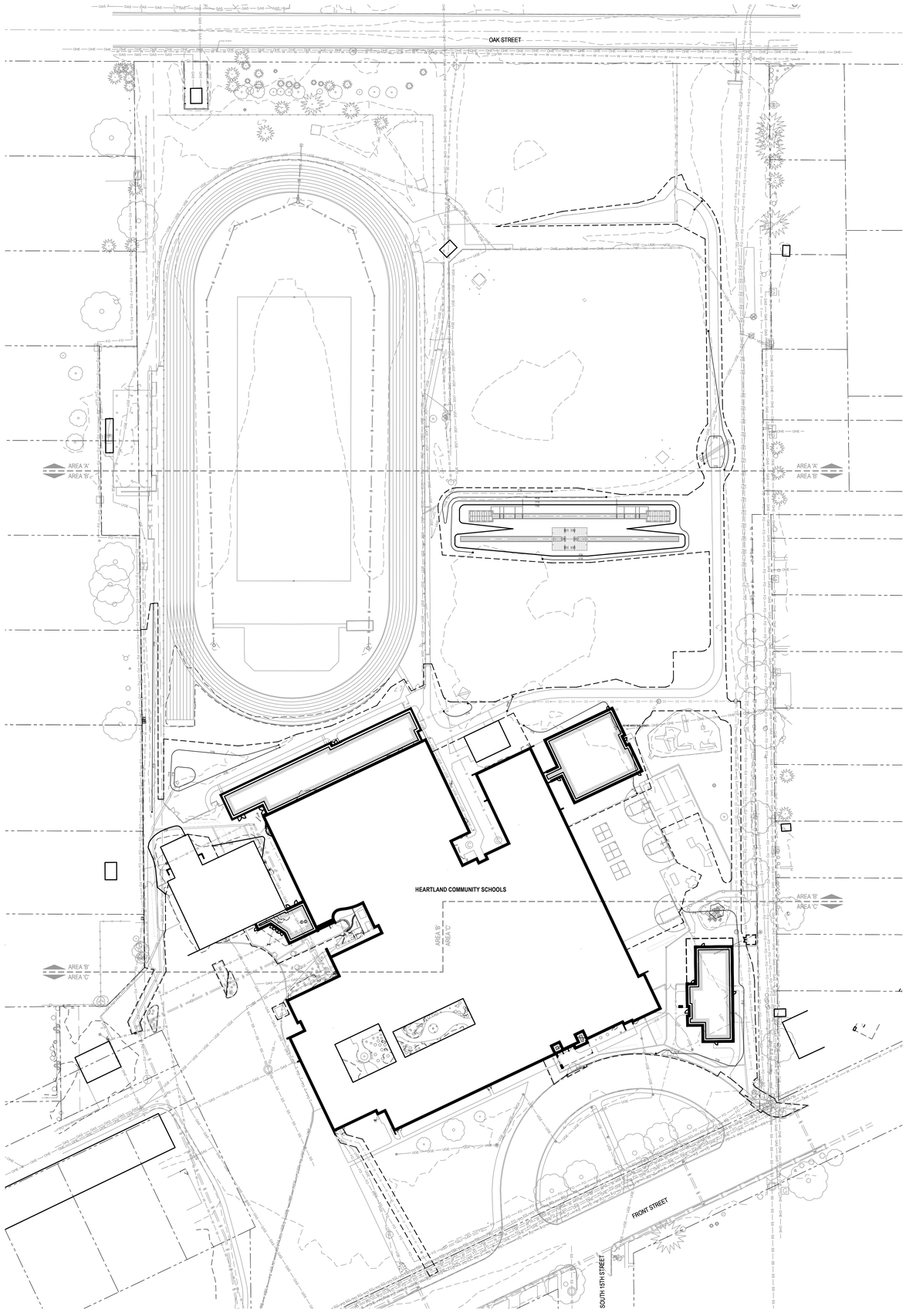
PLANTING BEDS
24" AMENDED SOIL DEPTH
(12" OF NEW, 12" OF EXISTING)

SPOT ELEVATION LEGEND

SYMBOL	DESCRIPTION
ME	MATCH EXISTING
GDE	GRADE
HP	HIGH POINT
LP	LOW POINT
PVMT	TOP OF PAVEMENT
TC	TOP OF CURB
BC	BOTTOM OF CURB
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
TW	TOP OF WALL
BW	BOTTOM OF WALL
DOOR	BUILDING DOOR
BLDG	BUILDING

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- LIMITS OF GRADING



SITE GRADING PLAN OVERVIEW

SCALE: 1"=50'-0"

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 003 12/14/2022 AS PER ADDENDUM #003

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

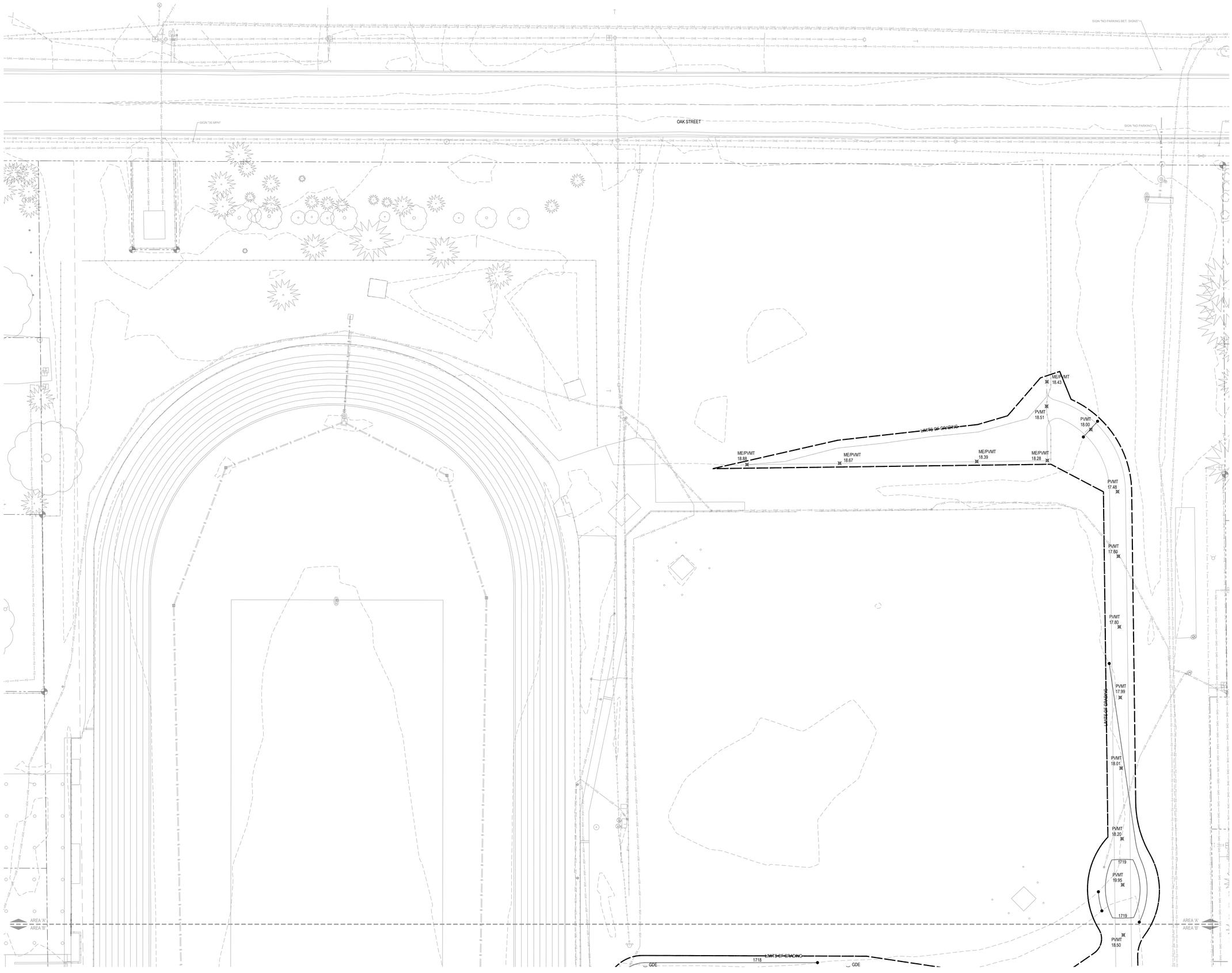
November 18, 2022

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Site Grading Plan Overview

L3.01

Plot Time Stamp: 5 / 08 / 2023 12:34:24 PM
File Location/Name: \\1tcsp-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L301.dwg



SITE GRADING PLAN AREA 'A'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 1:07:58 PM
File Location/Name: \\Tcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L302.dwg

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Portland, Oregon
Fort Collins, Colorado
Omaha, Nebraska

Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

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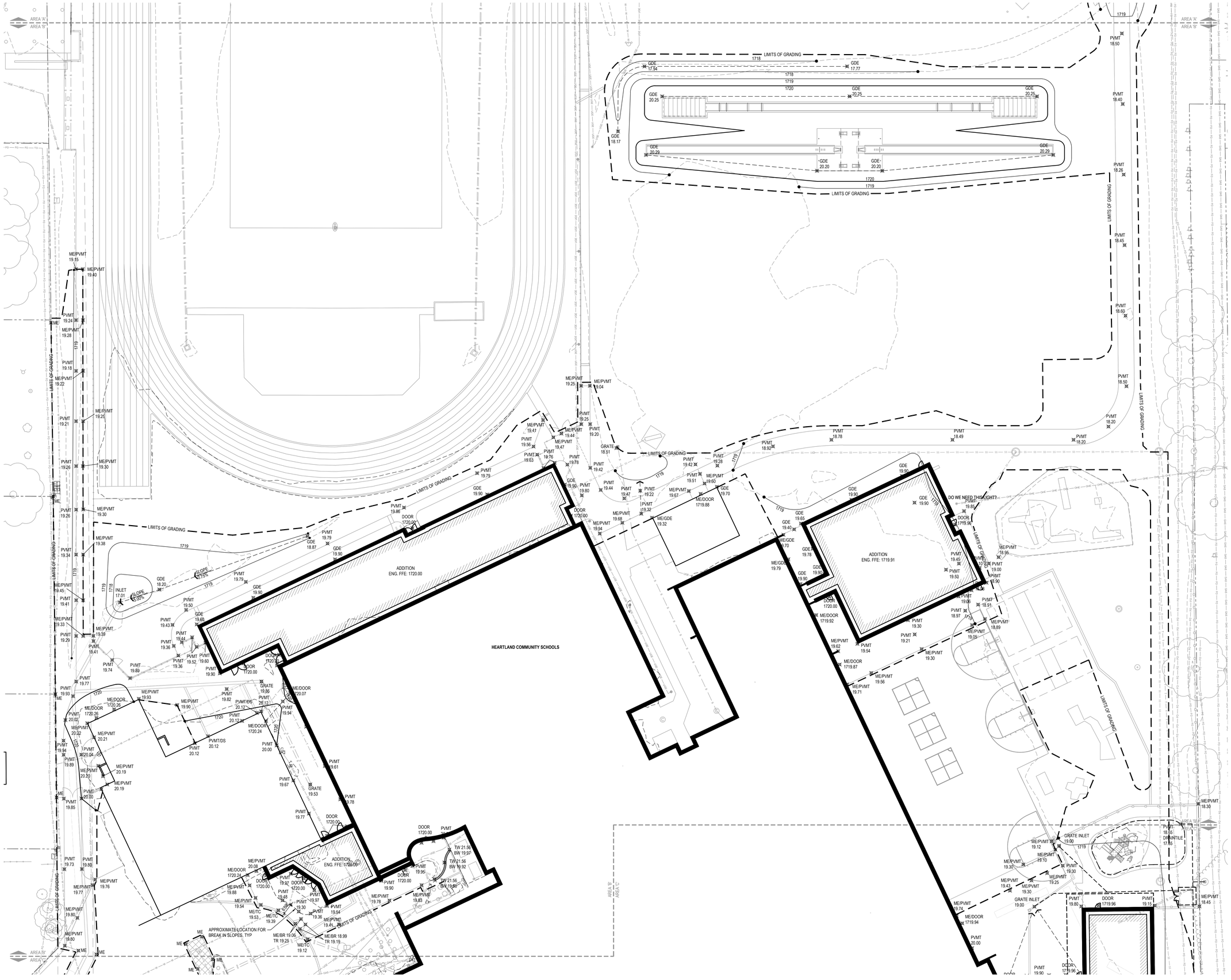
November 18, 2022

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Site Grading Plan
Area 'A'

L3.02



SITE GRADING PLAN AREA 'B'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2022 1:12:09 PM
File Location/Name: \\1tcsp-in-srv-0041.300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L303.dwg

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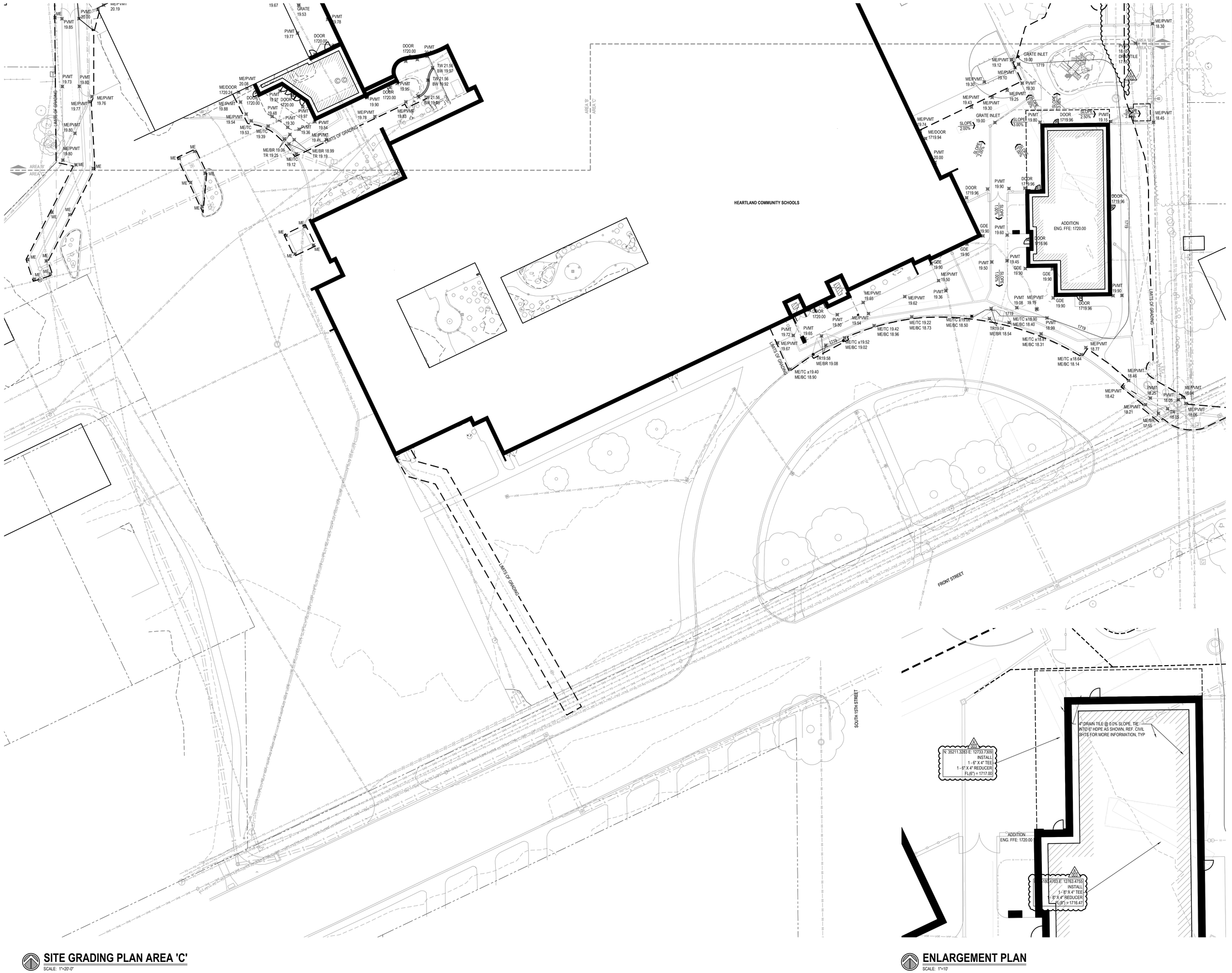
November 18, 2022

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Site Grading Plan
Area 'B'

L3.03



SITE GRADING PLAN AREA 'C'
SCALE: 1"=20'-0"

ENLARGEMENT PLAN
SCALE: 1"=10'

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Site Grading Plan
Area 'C'

L3.04

Plot Time Stamp: 5 / 08 / 2023 1:04:36 PM
File Location/Name: \\Tcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L304.dwg



VICINITY MAP

NO SCALE

EROSION CONTROLS AND FINAL STABILIZATION

1. THE PERMITTEE SHALL COMPLY WITH THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATER OF THE STATE OF NEBRASKA, ISSUED DECEMBER 1, 2021.

2. SEQUENCE OF EROSION CONTROL BMP'S (BEST MANAGEMENT PRACTICES)
   - PRIOR TO GRADING OPERATION, INSTALL ALL SILT FENCE AND CURB INLET FILTERS
   - INSTALL STABILIZED CONSTRUCTION ENTRANCE (SEE NOTE 5) BEFORE SOIL DISTURBANCE
   - FOLLOWING SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, TOPSOIL STOCKPILES, AND ANY OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WHICH ARE NOT BEING USED FOR MATERIAL STORAGE, OR ON WHICH ACTUAL EARTH MOVING ACTIVITIES ARE NOT BEING PERFORMED.

   IF INCLUDED IN SPECIFICATIONS, PERMITTEE SHALL REFER TO SPECIFICATION SECTION 312500-EROSION AND SEDIMENT CONTROL SYSTEMS FOR MORE INFORMATION ON PRODUCTS TO BE USED FOR THESE BMP'S

3. THE PERMITTEE SHALL HAVE A SPILL PREVENTION AND RESPONSE PLAN THAT ADDRESSES FUELING, MAINTENANCE AND STORAGE AREAS ON-SITE INCLUDING A DESCRIPTION OF SAID CONSTRUCTION MATERIALS (WITH UPDATES AS APPROPRIATE). THIS SPILL PREVENTION PLAN SHALL BE MAINTAINED ON THE PROJECT SITE. THE PLAN SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 18 OF NDEE TITLE 126- RULES AND REGULATIONS PERTAINING TO THE MANAGEMENT OF WASTES.

4. ANY WASTES PRESENT OR GENERATED AT THE SITE SHALL BE DISPOSED OF IN COMPLIANCE WITH NDEE REGULATIONS.
   REGULATIONS THAT MAY HAVE APPLICATION IN THIS RESPECT INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO:
   - NDEE TITLE 119 - RULES AND REGULATIONS PERTAINING TO THE ISSUANCE OF PERMITS UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
   - NDEE TITLE 128 - RULES AND REGULATIONS GOVERNING HAZARDOUS WASTE MANAGEMENT IN NEBRASKA
   - NDEE TITLE 129 - NEBRASKA AIR QUALITY REGULATIONS
   - NDEE TITLE 130 - RULES AND REGULATIONS PERTAINING TO LIVESTOCK WASTE CONTROL
   - NDEE TITLE 132 - INTEGRATED SOLID WASTE MANAGEMENT REGULATIONS

5. THE PERMITTEE SHALL PROVIDE A STABILIZED SURFACE FOR EACH CONSTRUCTION ENTRANCE AS DELINEATED ON THE SITE PLAN. UNLESS OTHERWISE DETAILED ON THE PLANS, THE STABILIZED SURFACE SHALL CONSIST OF A 6" THICK BASE OF CRUSHED ROCK OVER A WOVEN GEOTEXTILE FABRIC MANUFACTURED BY MIRAFI, PRODUCT #HP 370 OR EQUAL AS APPROVED BY THE ARCHITECT/ENGINEER. IF TRAFFIC ON SITE EXCEEDS MORE THEN 25 VEHICLES PER DAY, A WASH DOWN STATION FOR TRUCKS SHALL BE INSTALLED AND STREET SWEEPING SHALL BE PERFORMED.

6. DUST BLOWING CONTROL
   THE PERMITTEE SHALL USE EITHER OF THE FOLLOWING MEASURES OR A COMBINATION OF BOTH IF NECESSARY:
   A. TANK TRUCK OR OTHER SUCH EQUIPMENT TO SPREAD WATER ON THE SOIL SURFACE.
   B. INSTALL PICKET FENCE WIND BREAKS. FENCES SHALL BE PLACED AT THE RIGHT ANGLE TO THE PREVAILING WIND CURRENTS.

7. THE PERMITTEE SHALL REMOVE ACCUMULATED SEDIMENT FROM BEHIND SILT FENCES DURING THE LIFE OF THIS CONTRACT. ACCUMULATION OF SEDIMENT MUST NOT BE ALLOWED TO REACH ABOVE HALF THE HEIGHT OF THE FENCE. ALL EROSION CONTROL FEATURES SHALL BE KEPT IN WORKING ORDER DURING THE LIFE OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

8. LITTER, CONSTRUCTION DEBRIS AND CONSTRUCTION CHEMICALS MUST BE PREVENTED FROM ENTERING RECEIVING WATERS.

9. THE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT FINAL STABILIZATION IS ACCOMPLISHED ON ALL NON-IMPERVIOUS SURFACES OF THE CONSTRUCTION SITE PRIOR TO SUBMITTING FORM CSW-NOT. REFERENCE PART I, PARAGRAPH C, SUBPARAGRAPH 5, SECTION D IN THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATER OF THE STATE OF NEBRASKA, ISSUED DECEMBER 1, 2021.

INSPECTIONS AND MODIFICATIONS TO THE PLAN

SITE INSPECTIONS AND MODIFICATIONS MUST BE IN COMPLIANCE WITH THE GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATERS OF THE STATE OF NEBRASKA, ISSUED DECEMBER 1, 2021. BELOW IS A SUMMARY OF WHAT IS REQUIRED.

1. THE SITE SHALL BE INSPECTED TO IDENTIFY MAINTENANCE NEEDS AND/OR SWPPP DEFICIENCIES ON ONE OF THE FOLLOWING SCHEDULES:
   a. AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, EXCLUDING NON-BUSINESS HOURS
   b. ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.25 INCHES OR GREATER, OR THE OCCURRENCE OF RUNOFF OR SNOWMELT SUFFICIENT TO CAUSE A DISCHARGE, EXCLUDING NON-BUSINESS HOURS.
   ANY DELAY IN THE REPLACEMENT OR MAINTENANCE OF NON-FUNCTIONAL BMP'S BEYOND SEVEN (7) CALENDAR DAYS SHALL BE DOCUMENTED IN THE SWPPP WITH SUFFICIENT DETAIL AS TO EXPLAIN THE REASON FOR THE DELAY.

2. INSPECTIONS FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH IF:
   a. THE ENTIRE SITE IS TEMPORARILY STABILIZED
   b. RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G. SITE IS COVERED WITH SNOW, ICE OR GROUND IS FROZEN)
   c. REDUCED INSPECTION FREQUENCY DOES NOT RELIEVE THE PERMITTEE OF THE MAINTENANCE RESPONSIBILITIES DURING INTERIM PERIODS

3. INSPECTIONS MUST BE CONDUCTED BY QUALIFIED PERSONNEL KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY EROSION AND SEDIMENT CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGE FROM THE CONSTRUCTION ACTIVITY.

4. QUALIFIED PERSONNEL SHALL INITIATE AND COMPLETE CORRECTIVE ACTIONS TO ADDRESS ANY MAINTENANCE NEEDS OR DEFICIENCIES AS SOON AS POSSIBLE. MAINTENANCE AND REPAIR OF SILT FENCES, CURB FILTERS OR ANY OTHER BMP SHALL BE COMPLETED WITH IN 7 DAYS AFTER DEFICIENCIES ARE DISCOVERED.

5. THE PERMITTEE SHALL MAINTAIN RECORD LOGS OF SITE INSPECTION AND MAINTENANCE ACTIVITIES FOR AT LEAST THREE YEARS FROM THE DATE THAT PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE PERMITTEE MUST PROVIDE NDEE, THE ARCHITECT/ENGINEER, AND THE OWNER/OWNER'S REPRESENTATIVE, WITH ACCESS AND COPIES OF THESE RECORDS UPON REQUEST. A COPY OF THESE RECORDS MUST BE MAINTAINED ON SITE.
   AT A MINIMUM THESE RECORDS MUST INCLUDE:
   A. THE INSPECTION TIME AND DATE
   B. NAMES, TITLES, AND QUALIFICATION OF WHO CONDUCTED THE INSPECTIONS
   C. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION
      -BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT
      -DURATION OF EACH STORM EVENT
      -APPROXIMATE AMOUNT OF RAINFALL (IN INCHES)
      -WHETHER ANY DISCHARGE OCCURRED
   D. WEATHER INFORMATION AND DESCRIPTION OF ANY DISCHARGE OCCURRING AT TIME OF THE INSPECTION
   E. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE
   F. LOCATION OF BMPs THAT NEED TO BE MAINTAINED
   G. LOCATIONS OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION
   H. MONITORING RESULTS IF REQUESTED
   I. RECORDS OF GRADING ACTIVITY SINCE LAST INSPECTION
   J. LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION
   K. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWPPP NECESSARY AND IMPLEMENTATION DATES

6. THIS PLAN SHALL REMAIN DYNAMIC. IF DEFICIENCIES ARISE DURING THE COURSE OF THE PROJECT, THE PERMITTEE SHALL IMPLEMENT EFFECTIVE CORRECTIVE ACTIONS. AN UPDATED COPY OF THE SWPPP SHALL BE ON SITE AT ALL TIMES. THE PERMITTEE SHALL MAINTAIN AN UPDATED COPY AT ALL TIMES ANY WORK IS BEING PERFORMED ON SITE. THE PLAN SHALL BE UPDATED WHENEVER EROSION AND/OR SEDIMENT CONTROLS ARE MODIFIED AS SET FORTH IN THE PLAN. THIS DOES NOT CIRCUMVENT THE PERMITTEE'S RESPONSIBILITY TO OBTAIN APPROVAL FOR MODIFICATIONS THAT MAY CONCURRENTLY FALL UNDER THE JURISDICTION OF OTHER GOVERNMENTAL AUTHORITIES. THE PERMITTEE SHALL MAINTAIN A RECORD OF ALL MODIFICATIONS OF CONTROLS ON THE PLAN. THE RECORD SHALL INCLUDE DATE OF MODIFICATION AND REASON(S) FOR MODIFICATION.

7. A COPY OF THE SWPPP (INCLUDING A COPY OF THE PERMIT), CSW-NOI, AND THE LETTER FROM NDEE NOTIFYING YOU OF THE RECEIPT OF THE COMPLETE AND ACCURATE CSW-NOI MUST BE RETAINED AT THE CONSTRUCTION SITE OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS. THE SWPPP MUST BE MADE AVAILABLE UPON REQUEST TO FEDERAL, STATE, AND LOCAL AGENCIES, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE OF FINAL STABILIZATION.

BMP IMPLEMENTATION SCHEDULE

SPECIFIED BMP	INSTALLATION	REQUIRED MAINTENANCE	REMOVAL
CONSTRUCTION ENTRANCE	UPON MOBILIZATION OF GRADING CONTRACTOR	ADD OR REPLACE ROCK AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING
EXISTING STORM DRAIN INLET PROTECTION	PRIOR TO CLEANING AND GRUBBING AROUND PERIMETER	REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	COMPLETION OF PAVING AND PERMANENT SEEDING IS ESTABLISHED
SILT FENCE	IMMEDIATELY FOLLOWING CLEANING AND GRUBBING AROUND PERIMETER	REPAIR WASH-OUTS, DOWNED FABRIC, AND REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	95% VEGETATIVE COVER ON UPSTREAM AREAS
SEDIMENT TRAP	PRIOR TO CLEANING AND GRUBBING AROUND PERIMETER	REMOVE SEDIMENT WHEN BASIN REACHES 50% SEDIMENT CAPACITY	COMPLETION OF PAVING
TEMPORARY SEEDING	IMMEDIATELY FOLLOWING MAJOR GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES WHEN AREA WILL NOT BE DISTURBED FOR 14 OR MORE DAYS*.	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; ENSURE GOOD STAND IS MAINTAINED	N/A
CONCRETE WASHOUT	UPON MOBILIZATION OF UTILITY CONTRACTOR	REMOVE CONCRETE RUBBLE AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF PAVING
STORM DRAIN INLET PROTECTION	IMMEDIATELY FOLLOWING INSTALLATION OF STORM SEWER	REMOVE SEDIMENT WHEN DEPTH IS $\frac{1}{2}$ THE HEIGHT OF THE FABRIC	COMPLETION OF PAVING AND PERMANENT SEEDING IS ESTABLISHED
PERMANENT SEEDING	IMMEDIATELY FOLLOWING FINISHED GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; CONTROL WEEDS; ENSURE GOOD STAND IS MAINTAINED	N/A

*NOTE: UNLESS OTHER STIPULATIONS ARE MET FROM PART IV, PARAGRAPH F, SUBPARAGRAPH 1 IN THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES TO WATER OF THE STATE OF NEBRASKA, ISSUED DECEMBER 1, 2021.

TEMPORARY SEEDING

TEMPORARY SEED ALL DISTURBED AREAS FOR EROSION CONTROL PURPOSES INCLUDING ANY LAND THAT WAS NOT DISTURBED BY GRADING OPERATIONS.

SEED WITH SEED OATS AT A RATE OF 64 LBS/ACRE

GENERAL INFORMATION

1. THE FUNCTION OF THIS PROJECT IS TO BUILD ADDITIONS ON TO HEARTLAND COMMUNITY SCHOOLS EXISTING BUILDING.

2. THE FOLLOWING ITEMS ARE LISTED IN CHRONOLOGICAL ORDER THAT THE WORK IS EXPECTED TO OCCUR:
   A. MONTH YEAR - DESCRIPTION
   B. MONTH YEAR - DESCRIPTION
   C. MONTH YEAR - DESCRIPTION
   D. MONTH YEAR - DESCRIPTION

3. TOTAL PROJECT AREA: ±18.62 AC
   DEVELOPED/DISTURBED AREA: 2.83 AC

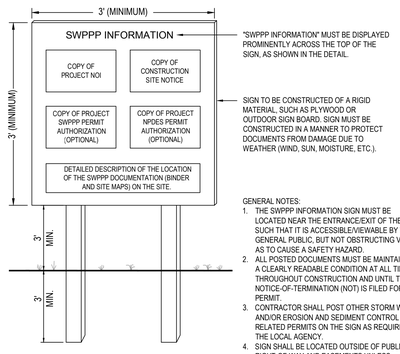
4. ALL EXISTING SITE CONDITIONS ARE BASED ON SURVEY INFORMATION PERFORMED AND RECORDED BY:
   JEO CONSULTING GROUP CONTACT: (308.381.7428).

THE UNDERSIGNED CERTIFIES THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE TERMS OF THE INTERLOCAL AGREEMENT FOR NPDES COMPLIANCE.

Jon Hauck, PLA

LEGEND

- SILT FENCE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- LIMITS OF GRADING
- SWPP SIGN
- CONCRETE WASHOUT
- SURFACE FLOW DIRECTION
- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET



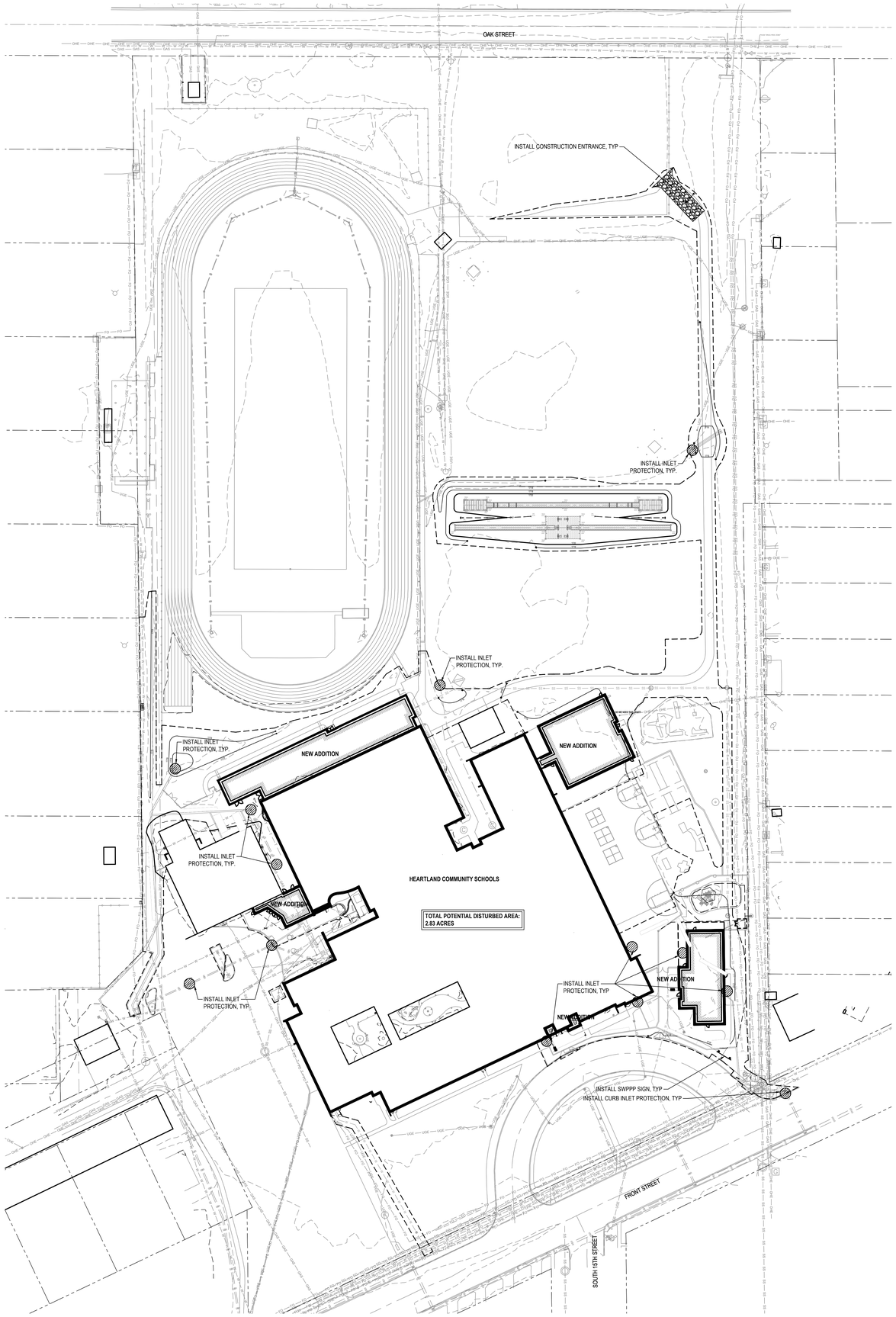
"SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).

GENERAL NOTES:
1. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
2. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
3. CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
4. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
5. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

1 SWPPP INFORMATION SIGN

NOT TO SCALE



EROSION CONTROL PLAN

SCALE: 1"=50'-0"

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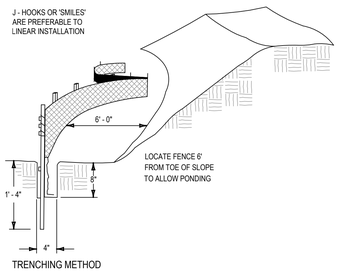
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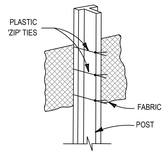
Erosion Control Plan

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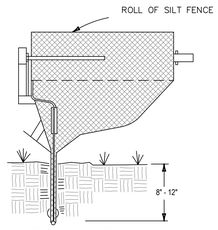
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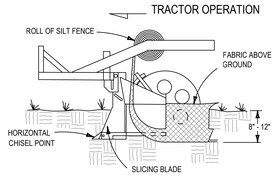
TRENCHING METHOD



T-POST
WITH ATTACHMENT TO POST

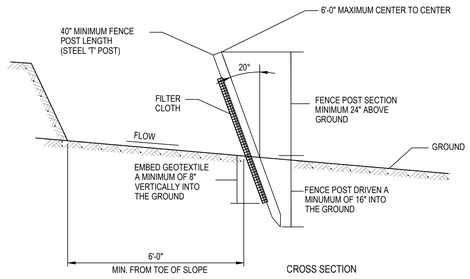


STATIC SLICING METHOD
BACK VIEW



STATIC SLICING METHOD
SIDE VIEW

METHODS OF
SILT FENCE INSTALLATION

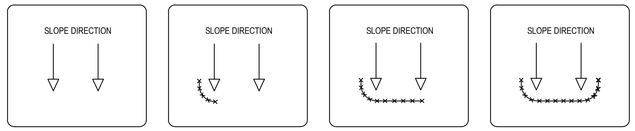


CROSS SECTION

1 SEDIMENT FENCE
NTS

SILT FENCE PLACEMENT/ONE SLOPE

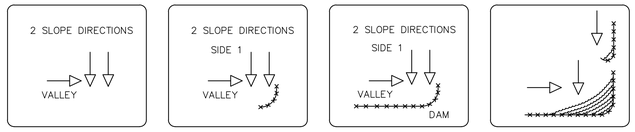
INSTALLATION WITH J-HOOKS OR 'SMILES' INCREASE SILT FENCE EFFICIENCY.



STEP 1 - CONSTRUCT LEG | STEP 2 - CONSTRUCT DAM | STEP 3 - CONSTRUCT LEG 2

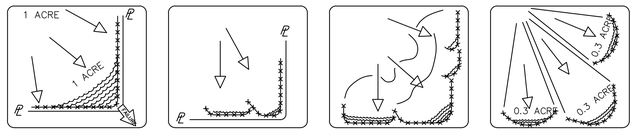
SILT FENCE PLACEMENT/TWO SLOPES

INSTALLATION WITH J-HOOKS WILL INCREASE SILT FENCE EFFICIENCY AND REDUCE EROSION-CAUSING FAILURES.



STEP 1 - CONSTRUCT A DAM | STEP 2 - CONSTRUCT SIDE 2 | STEP 3 - CONSTRUCT J-HOOKS AS NEEDED

SILT FENCE PLACEMENT/PERIMETER CONTROL

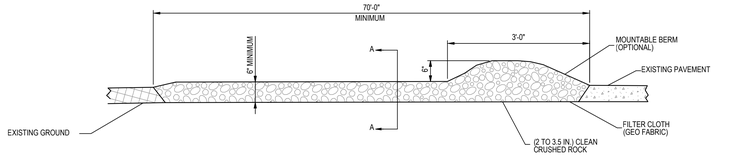


INCORRECT - DO NOT LAYOUT "PERIMETER CONTROL" SILT FENCES ALONG PROPERTY LINES. ALL SEDIMENT LADEN RUNOFF WILL CONCENTRATE AND OVERWHELM THE SYSTEM.

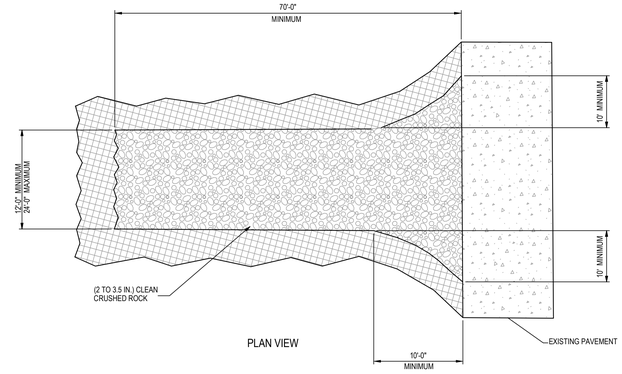
CORRECT - INSTALL J-HOOKS

CORRECT - INSTALL J-HOOKS

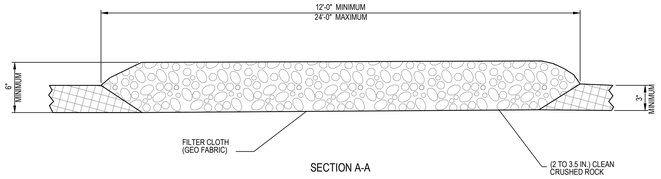
DISCREET SEGMENTS OF SILT FENCE, INSTALLED WITH J-HOOKS OR SMILES' WILL BE MUCH MORE EFFECTIVE.



SIDE VIEW



PLAN VIEW



SECTION A-A

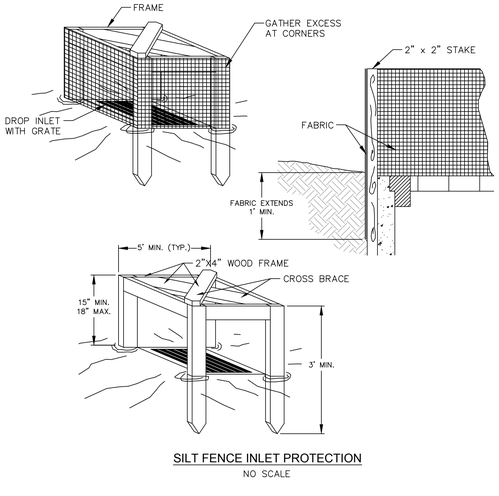
NOTE:

* MUST EXTEND THE FULL WIDTH AND LENGTH OF THE CONSTRUCTION ENTRANCE

THE 24'-0" WIDTH IS REQUIRED WHEN THE INGRESS AND THE EGRESS ARE THE SAME

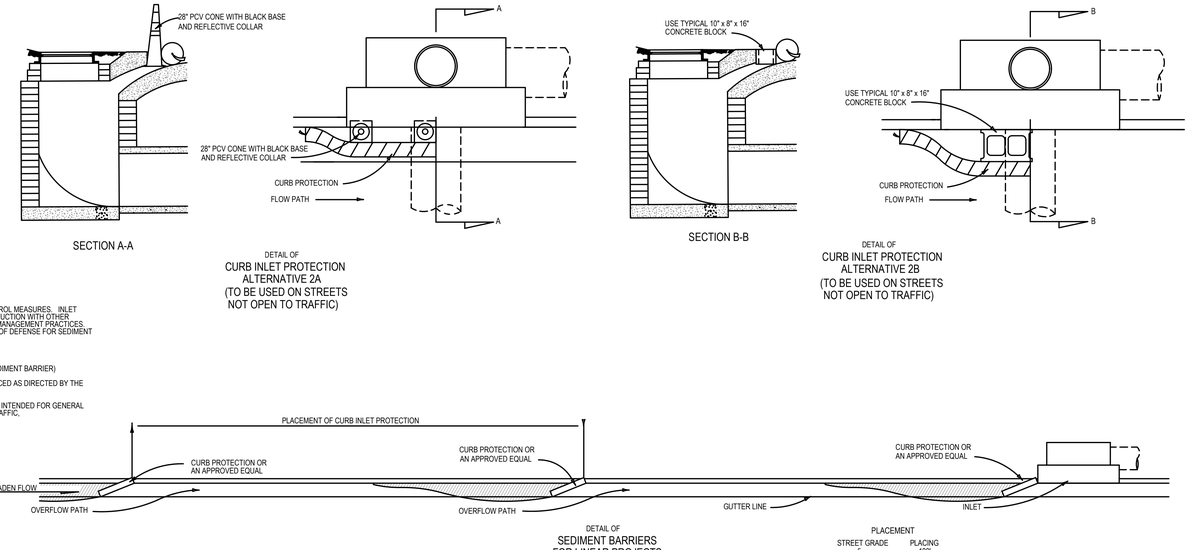
REFER TO CHAPTER 8 AND 9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL FOR MORE INFORMATION OF SEDIMENT AND EROSION CONTROL MEASURES

2 CONSTRUCTION ENTRANCE
NTS



SILT FENCE INLET PROTECTION
NO SCALE

3 INLET PROTECTION
NTS



SECTION A-A

DETAIL OF
CURB INLET PROTECTION
ALTERNATIVE 2A
(TO BE USED ON STREETS NOT OPEN TO TRAFFIC)

SECTION B-B

DETAIL OF
CURB INLET PROTECTION
ALTERNATIVE 2B
(TO BE USED ON STREETS NOT OPEN TO TRAFFIC)

GENERAL NOTE

1. DO NOT USE BARRIERS AS THE ONLY SEDIMENT CONTROL MEASURES. INLET PROTECTION IS ONLY EFFECTIVE WHEN USED IN CONJUCTION WITH OTHER UPSTREAM EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. INLET BARRIER PROTECTION SHOULD BE A LAST LINE OF DEFENSE FOR SEDIMENT CAPTURE.
2. INSPECT WEEKLY AND AFTER EACH RAIN FALL EVENT.
3. REMOVE SEDIMENT WHEN HALF FULL (1/2 WAY UP SEDIMENT BARRIER)
4. IN SUMP LOCATIONS INLET PROTECTION WILL BE PLACED AS DIRECTED BY THE ENGINEER
5. DO NOT USE IF STREET IS OPEN TO PUBLIC TRAFFIC. INTENDED FOR GENERAL USE AFTER PAVING AND BEFORE OPEN TO PUBLIC TRAFFIC,

DETAIL OF
SEDIMENT BARRIERS
FOR LINEAR PROJECTS
TYPE I
(TO BE USED ON STREETS NOT OPEN TO TRAFFIC)

PLACEMENT

STREET GRADE	PLACING
.5	100'
1.0	50'
2.0	25'
3.0	16'
4.0	13'
5.0	10'

4 CURB INLET PROTECTION
NTS

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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

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Erosion Control Details

L3.06

Plot Time Stamp: 5 / 08 / 2023 1:04:13 PM
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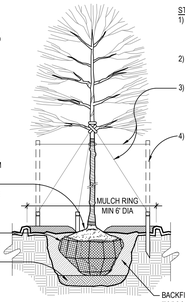
TREE PLANTING NOTES:
1) DO NOT HEAVILY PRUNE THE TREE AT PLANTING, PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, & BROKEN OR DEAD BRANCHES.SOME INTERIOR TWIGS & LATERAL BRANCHES MAY BE PRUNED. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN
2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE
3) SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE
4) APPLY 3"TH WOOD MULCH, DO NOT PLACE MULCH IN DIRECT CONTACT w/ TREE TRUNK
5) APPLY TREE WRAP TO TRUNK FROM THE BTM UPWARD, SECURE w/ TAPE
6) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL w/ SOIL
7) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE ROOT BALL AND REMOVE WIRE BASKETS.
8) PLACE ALL ROOT BALLS ON UNEXCAVATED OR TAMPED SOIL, TYP

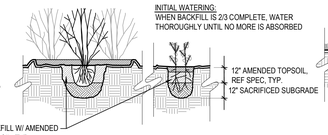
STAKING REQUIREMENTS:
1) STAKING SHALL BE w/APPROVAL OF LANDSCAPE ARCH, IF TREE WILL NOT BE ABLE TO SUPPORT ITSELF (DEPENDS ON SPECIES)
2) WIRE / CABLE SHALL BE GALV, 14-GAUGE FOR TREES UNDER 2 1/2" CAL, 12-GAUGE FOR TREES OVER 3" CAL.
3) TIGHTEN WIRE / CABLE ONLY ENOUGH TO KEEP FROM SLIPPING, ALLOW FOR SOME TRUNK MOVEMENT PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1 1/2" OF GROWTH
4) STAKES SHALL BE 1 1/2"x1 1/2" HARDWOOD OR EQUAL

PLANTING BED NOTES:
1) REMOVE TOP 12" OF SOIL
2) SCARIFY SUBGRADE TO A 12" DEPTH PRIOR TO PLACEMENT OF AMENDED TOPSOIL
3) PLACE 12" OF AMENDED TOPSOIL COMPOSED OF 75% NEW OR REDISTRIBUTED TOPSOIL & 25% COMPOST
4) APPLY 3" TH BED OF MULCH ON PERENNIAL PLANT BED, DO NOT COVER PLANTS

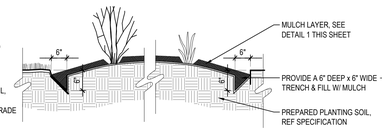
SHRUB PLANTING NOTES:
1) SET SHRUB AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER
2) PRUNE, THIN & SHAPE SHRUBS IN ACCORDANCE w/ STANDARD HORTICULTURAL PRACTICE

INITIAL WATERING:
WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED





1 PLANTING INSTALLATION
SCALE: 1/2"=1'-0" (IN ALL SOIL TYPES)



2 CULTIVATED MULCH EDGE
SCALE: 1/2"=1'-0"

GENERAL NOTES:

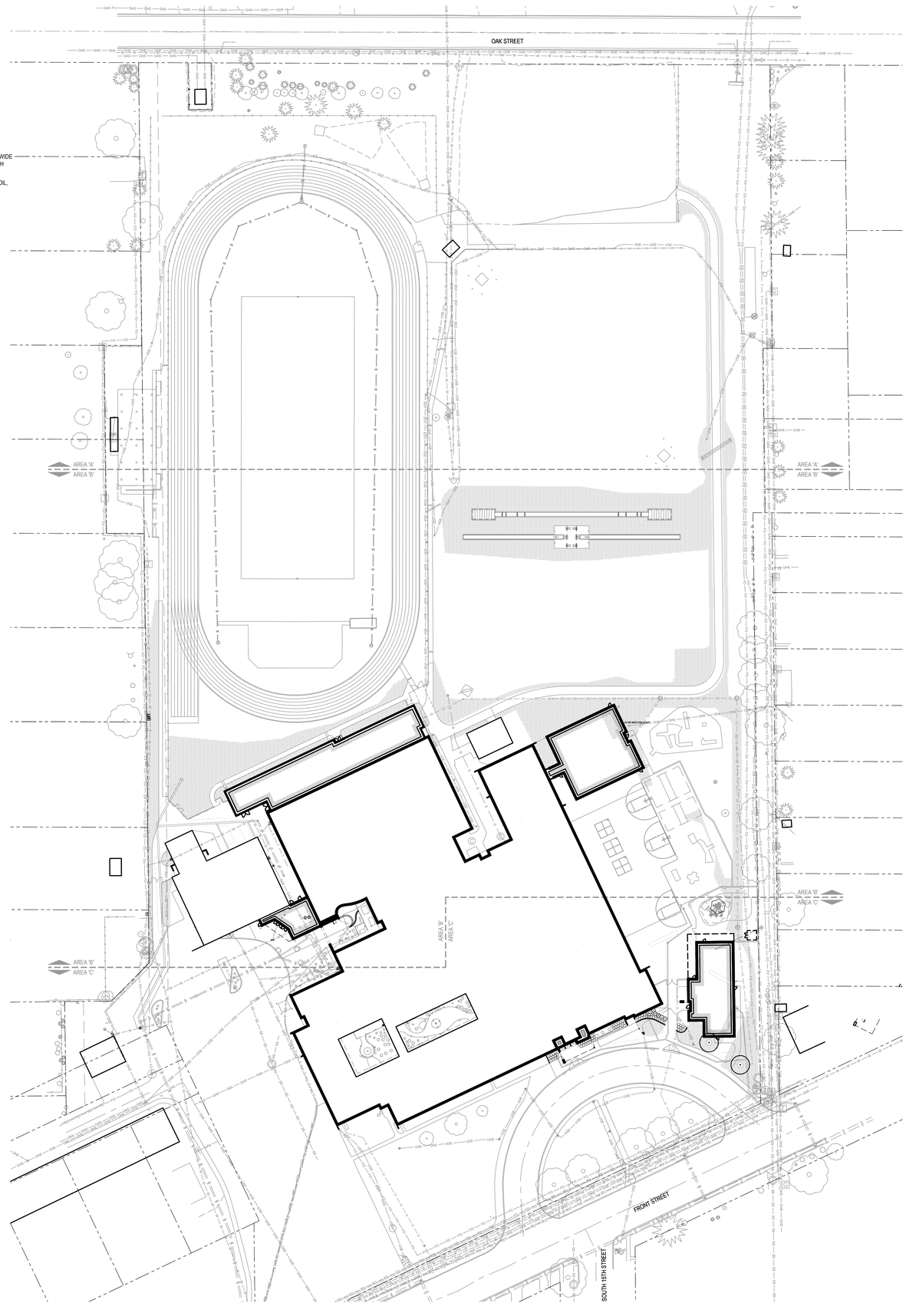
1. PROVIDE A CULTIVATED EDGE FOR ALL PLANTING BED EDGING AND WHERE BEDS ABUT BACK OF CURBS AND SIDEWALKS. REFERENCE DETAIL 2, L4.02.
2. CONTRACTOR SHALL MULCH ALL PLANTING BEDS AND TREE PITS. REFERENCE DETAILS 1 & 2, L4.02.
3. PROVIDE 12" OF TOPSOIL FOR PLANTING BEDS.
4. INSTALL PLANTS WHERE THEY ABUT CURBS TO ALLOW FOR A 2 FEET SPACE BETWEEN BACK OF CURB AND ESTIMATED MATURE SPREAD.
5. PROVIDE WATERING BAGS FOR ALL TREES. CHECK AND FILL WEEKLY. REFERENCE SPECIFICATION FOR TEMPORARY IRRIGATION FOR PLANT ESTABLISHMENT @ END OF CONSTRUCTION.
6. SOD OR SEED (BASED ON ADJACENT LANDSCAPING) ALL AREAS DISTURBED BY CONSTRUCTION WHETHER NOTED ON DRAWING OR NOT.

LEGEND:

TURF SEED
BASED ON 'SUPER TURF II' MIXTURE,
BY: UNITED SEEDS , 800.456.9901

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE & METHOD OF HANDLING	DESIGN HEIGHT & SPREAD
TREES				
AAB	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BLAZE SERVICEBERRY	2 1/2" CAL/ B&B/ 12'-14' HT MIN	20' HEIGHT, 15' SPREAD
SHRUBS				
AMM	ARONIA MELANOCARPA 'MORTON'	IROQUOIS BEAUTY CHOKEBERRY	#3 CONT/ 24" HT MIN W/ 4 CANES	4' HEIGHT,4' SPREAD
GRASSES				
SSC	SCHIZACHYRIUM SCOPARIUM 'CAROUSEL'	CAROUSEL LITTLE BLUESTEM	#1 CONT, 30" SPACING	30" HEIGHT, 30" SPREAD
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	#1 CONT, 18" SPACING	18" HEIGHT, 18" SPREAD



SITE PLANTING PLAN OVERVIEW
SCALE: 1"=50'-0"

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 003 12/14/2022 AS PER ADDENDUM #003

Heartland Community Schools Addition & Renovation

1501 Front Street
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CE No.: 380-001-21

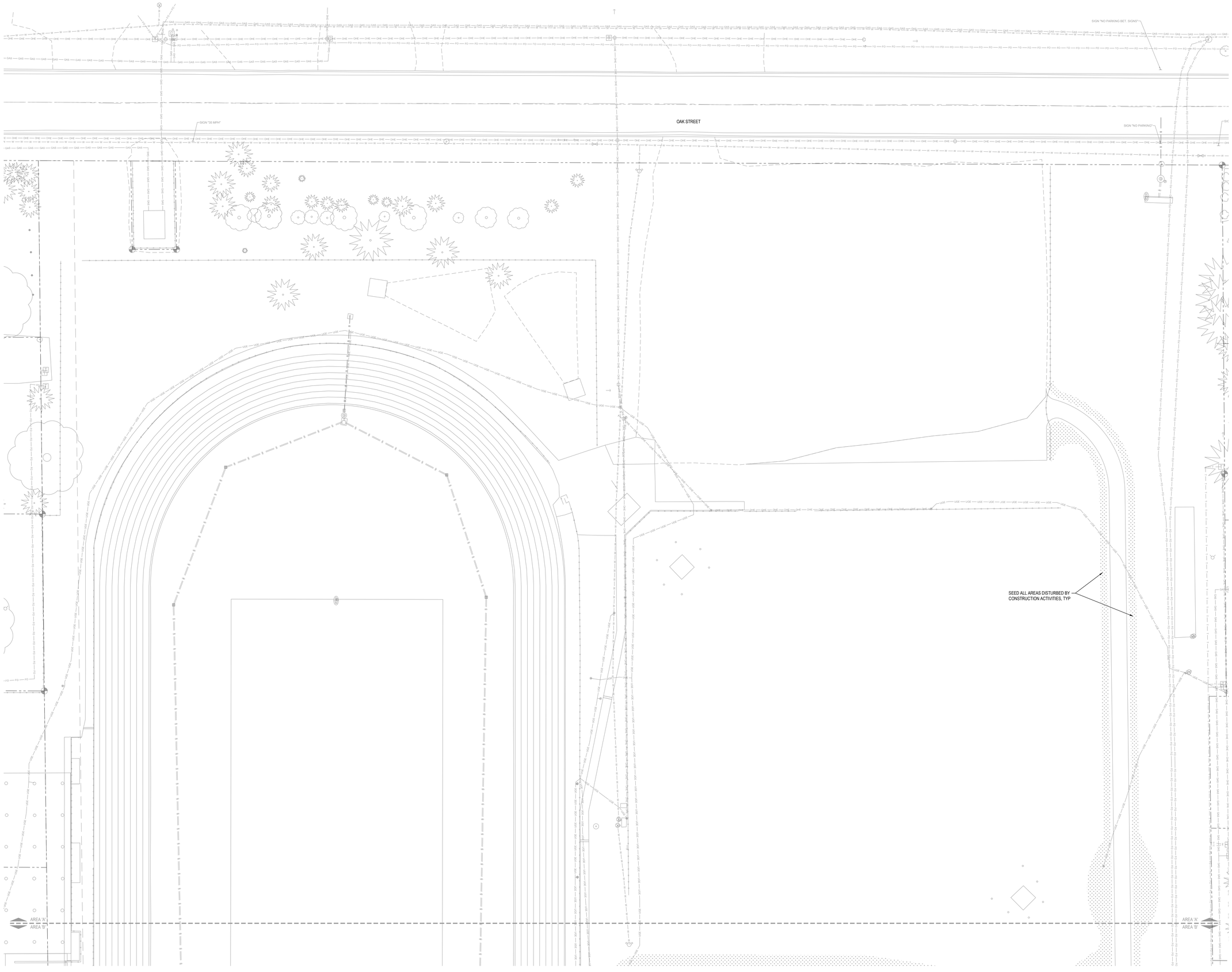
November 18, 2022

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Site Planting Plan Overview

L4.01

Plot Time Stamp: 5 / 08 / 2023 1:03:07 PM
File location/Name: \\1cep-ln-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L401.dwg



SITE PLANTING PLAN AREA 'A'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 1:00:35 PM
File Location/Name: \\Tcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L402.dwg

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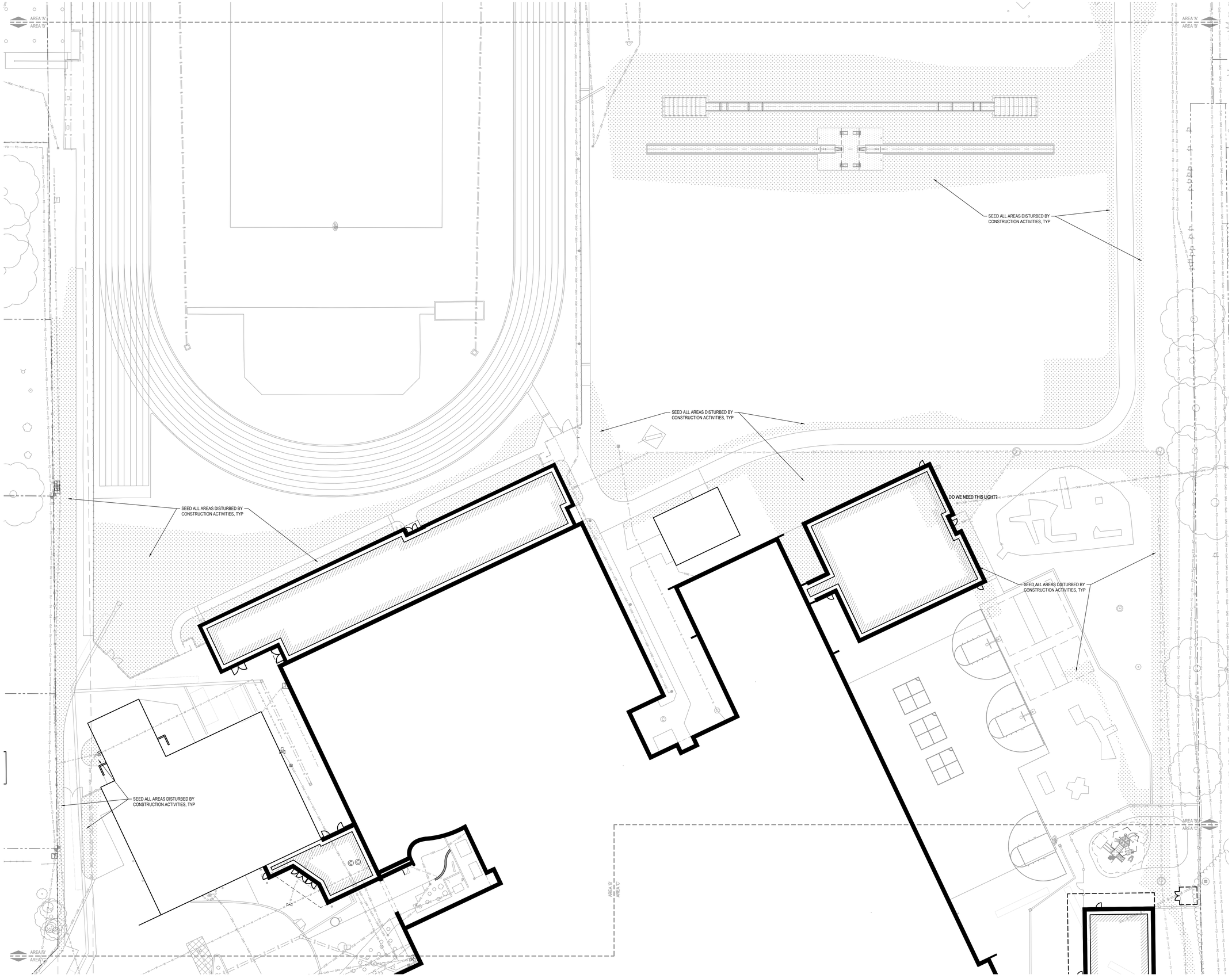
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Site Planting Plan
Area 'A'

L4.02



SITE PLANTING PLAN AREA 'B'

SCALE: 1"=20'-0"

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COA No. CA0029AE

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November 18, 2022

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Site Planting Plan
Area 'B'

L4.03

Plot Time Stamp: 5 / 08 / 2023 12:59:30 PM
File Location/Name: \\Tcep-hv-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L403.dwg

SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, TYP

AREA 'B'
AREA 'C'

(6) AMM
(20) SSC
(17) SSC
(12) SH
(18) SSC
(13) SSC

(9) SSC
(2) AAB
SEED, TYP

FRONT STREET

SOUTH 15TH STREET

SITE PLANTING PLAN AREA 'C'

SCALE: 1"=20'-0"

Plot Time Stamp: 5 / 08 / 2023 12:58:41 PM
File Location/Name: \\fcep-in-srv-004\300-399\380-001-21 Heartland Community School\03) AutoCAD\380001-L404.dwg

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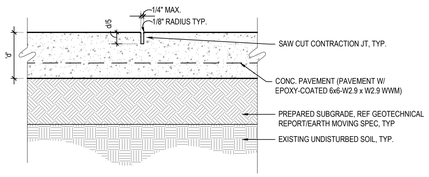
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Site Planting Plan
Area 'C'

L4.04

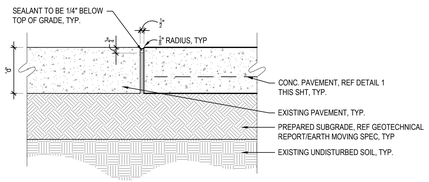
GENERAL NOTE:
'd' = TYPICAL PVMT DEPTH,
AS INDICATED ON LAYOUT SHTS



1 SAWCUT CONC. CONTRACTION JOINT

SCALE: 1 1/2"=1'-0" SPACE AT 10'-0" UNLESS OTHERWISE INDICATED

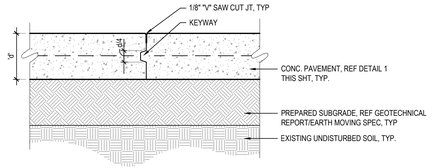
GENERAL NOTE:
- 'd' = TYPICAL PVMT DEPTH, AS INDICATED ON LAYOUT SHTS
- LOCATE WHERE ABUTTING ALL STRUCTURES, BACK OF CURBS, 50' O.C. ALONG WALKS, DRIVE SLABS, & AS INDICATED ON SITE LAYOUT PLAN



2 CONCRETE EXPANSION JOINT

SCALE: 1 1/2"=1'-0" (INDICATED EJ ON LAYOUT PLAN)

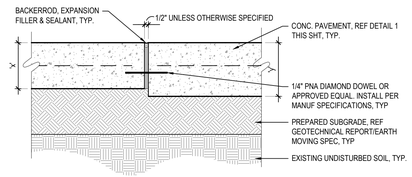
GENERAL NOTE:
'd' = TYPICAL PVMT DEPTH,
AS INDICATED ON LAYOUT SHTS



3 CONCRETE CONSTRUCTION JOINT

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

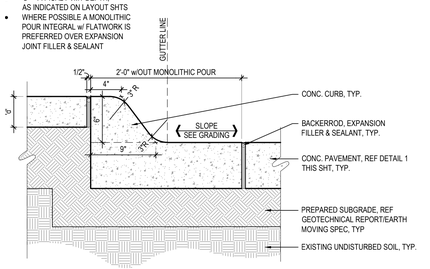
GENERAL NOTE:
- 'x' AND 'y' = VARIED PVMT DEPTHS AS INDICATED ON LAYOUT PLANS
- LOCATE DIAMOND PLATES WHERE SEPARATE POURS OR VARIED PVMT DEPTHS ABUT. IF JOINT EXCEEDS 60' IN LENGTH, A CONSTRUCTION JOINT SHALL BE USED



4 CONCRETE DOWELED JOINT

SCALE: 1 1/2"=1'-0" (INDICATED DJ ON LAYOUT PLAN)

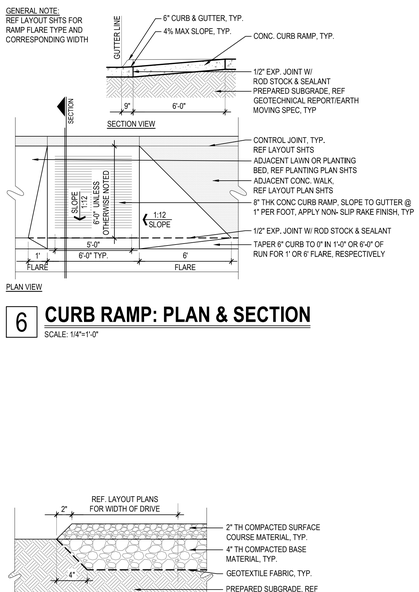
GENERAL NOTE:
- 'd' = TYPICAL PVMT DEPTH, AS INDICATED ON LAYOUT SHTS
- WHERE POSSIBLE A MONOLITHIC POUR INTEGRAL W/ FLATWORK IS PREFERRED OVER EXPANSION JOINT FILLER & SEALANT



5 CONCRETE CURB & GUTTER

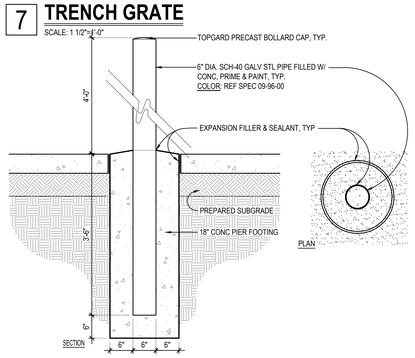
SCALE: 1 1/2"=1'-0"

GENERAL NOTE:
REF LAYOUT SHTS FOR RAMP FLARE TYPE AND CORRESPONDING WIDTH



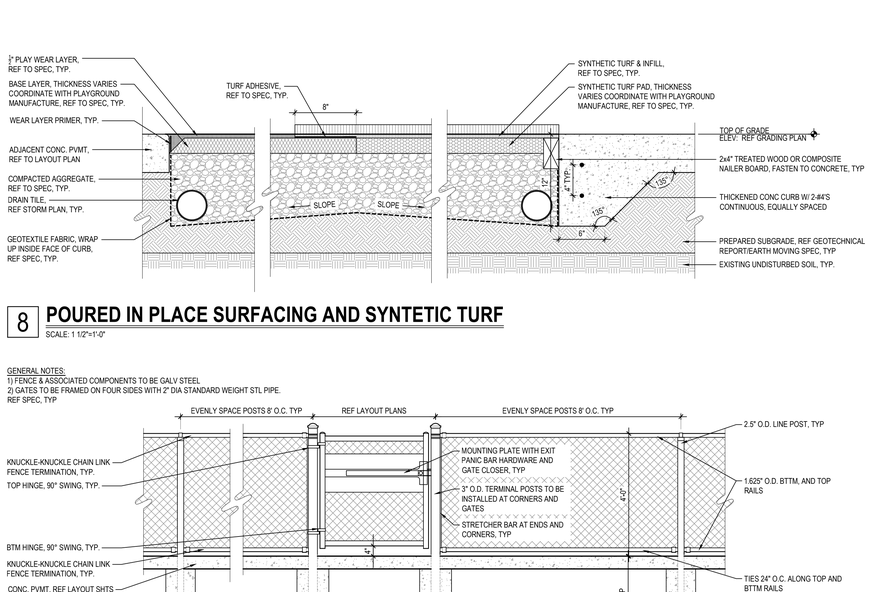
6 CURB RAMP: PLAN & SECTION

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



7 TRENCH GRATE

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



8 POURED IN PLACE SURFACING AND SYNTETIC TURF

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

GENERAL NOTES:
1) FENCE & ASSOCIATED COMPONENTS TO BE GALV STEEL
2) GATES TO BE FRAMED ON FOUR SIDES WITH 2" DIA STANDARD WEIGHT STL PIPE.
REF SPEC, TYP

9 FLEXIBILE CABLE FENCE & GATE

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

GENERAL NOTES:
1) POSTS TO BE SET @ 10' O.C.

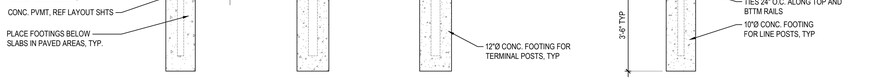


10 GRAVEL SERVICE DRIVE

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

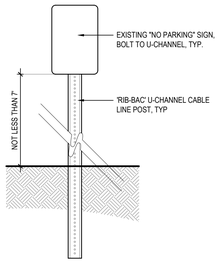
11 CONCRETE FILLED BOLLARD

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



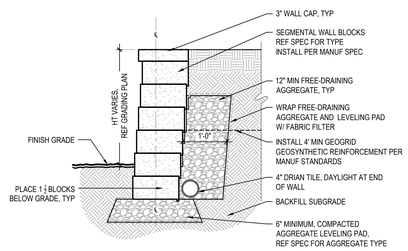
12 4' CHAIN LINK PLAYGROUND FENCE

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



13 SITE SIGNAGE

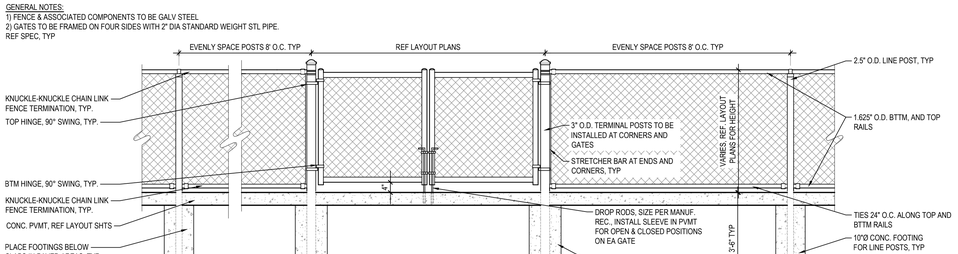
SCALE: 3/4"=1'-0"



14 SEGMENTAL RETAINING WALL

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

GENERAL NOTES:
1) FENCE & ASSOCIATED COMPONENTS TO BE GALV STEEL
2) GATES TO BE FRAMED ON FOUR SIDES WITH 2" DIA STANDARD WEIGHT STL PIPE.
REF SPEC, TYP



15 CHAIN LINK FENCE AND DOUBLE GATE

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

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

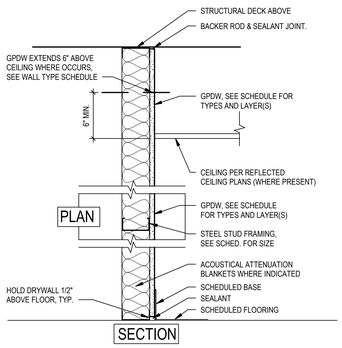
DRAFT

PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

Site Details

L6.01

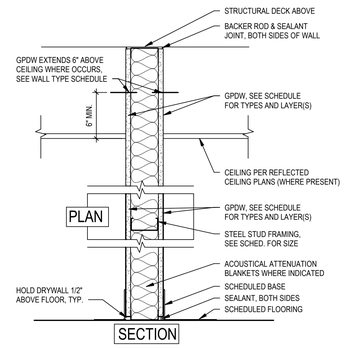
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STEEL STUD FURRING - (TYPE A, B, C, D)

NOTE: FOR STUD GAGE SEE 'INTERIOR STEEL STUD FRAMING GAGE TABLE' TYPE 2, THIS SHEET

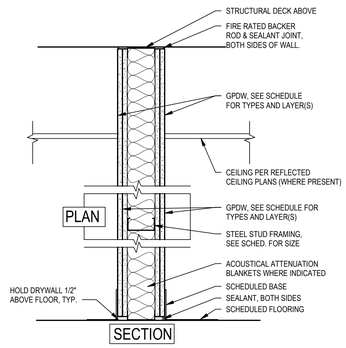
TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
A1	7/8" STEEL FURRING CHANNELS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	1 1/2"	MIN. 6" ABOVE CEILING	NA	NA	-	
A2	2 1/2" STEEL STUD FURRING @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	3 1/8"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA	-	
A3	3 5/8" STEEL STUD FURRING @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	4 1/4"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA	-	
A6	6" STEEL STUD FURRING @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	6 5/8"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA	-	
B3	3 5/8" STEEL STUD FURRING @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	4 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA	-	
B6	6" STEEL STUD FURRING @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	6 5/8"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA	-	
C3	3 5/8" STEEL STUD FURRING @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	-	4 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA	3 1/2" SOUND BATT	SEAL AT PERIMETER AND ALL PENETRATIONS



STEEL STUD PARTITION - (TYPE F, G, H, J, K)

NOTE: FOR STUD GAGE SEE 'INTERIOR STEEL STUD FRAMING GAGE TABLE' TYPE 1, THIS SHEET

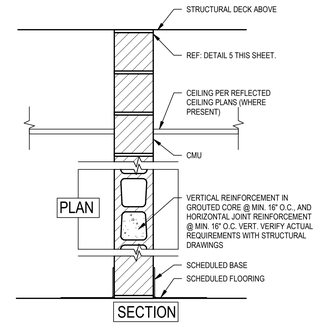
TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
F3	3 5/8" STEEL STUDS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	4 7/8"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA		SEAL AT PERIMETER AND ALL PENETRATIONS
F6	6" STEEL STUDS @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	7 1/4"	STUDS TO STRUCTURE AND GPDW TO MIN. 6" ABOVE CEILING	NA	NA		SEAL AT PERIMETER AND ALL PENETRATIONS
G3	3 5/8" STEEL STUDS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	4 7/8"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA		
G6	6" STEEL STUDS @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	7 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	NA		
H3	3 5/8" STEEL STUDS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	4 7/8"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	MIN. 44-48	3 1/2" SOUND BATT	SEAL AT PERIMETER AND ALL PENETRATIONS
H6	6" STEEL STUDS @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	7 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	NA	MIN. 44-48	6" SOUND BATT	SEAL AT PERIMETER AND ALL PENETRATIONS



RATED STEEL STUD PARTITION - (TYPE M, N, P, Q)

NOTE: FOR STUD GAGE SEE 'INTERIOR STEEL STUD FRAMING GAGE TABLE' TYPE 1, THIS SHEET

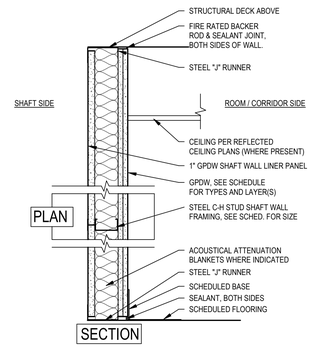
TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
M3	3 5/8" STEEL STUDS @ 16" O.C.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	4 7/8"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	1-HR (UL U419)	NA		SEAL AT PERIMETER AND ALL PENETRATIONS
M6	6" STEEL STUDS @ 16" O.C	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	7 1/4"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	1-HR (UL U419)	NA		SEAL AT PERIMETER AND ALL PENETRATIONS



MASONRY PARTITION - (TYPE S, T, U)

*FIRE RATED CONSTRUCTION NOTE:
PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE OF ASSEMBLIES WITH FIRE-RESISTANCE RATINGS DETERMINED PER ASTM E 119 BY A TESTING AND INSPECTING AGENCY.

TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
S4	4" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	3 5/8"	TO STRUCTURAL DECK	NA	NA	-	
S6	6" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	5 5/8"	TO STRUCTURAL DECK	NA	NA	-	
S8	8" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	7 5/8"	TO STRUCTURAL DECK	NA	NA	-	
S12	12" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	11 5/8"	TO STRUCTURAL DECK	NA	NA	-	
T8	8" CMU	SEE ROOM FINISH SCHEDULE.	SEE ROOM FINISH SCHEDULE.	7 5/8"	TO STRUCTURAL DECK	1 HR (ASTM E 119)	NA	-	SEAL AT PERIMETER AND ALL PENETRATIONS



SHAFT WALLS - (TYPE Y & Z)

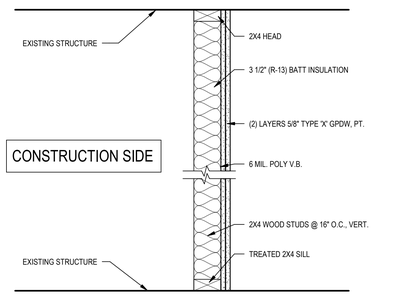
NOTE: FOR STUD GAGE SEE 'INTERIOR STEEL STUD FRAMING GAGE TABLE' TYPE 1, THIS SHEET

TAG	SUPPORT	FACING - TAG SIDE	FACING - OPP SIDE	ACTUAL SIZE	HEIGHT	RATING	STC	INSULATION	REMARKS
Y4	4" 'C-H' STUDS @ 24" O.C. MIN.	(1) LAYER - 5/8" TYPE 'X' GPDW. PT.	(1) LAYER - 1" GYPSUM LINER PANEL. PT WHITE.	4 5/8"	ENTIRE ASSEMBLY TO STRUCTURAL DECK	1 HR (UL U415)	MIN. 40-44	4" SOUND BATT	SEAL AT PERIMETER AND ALL PENETRATIONS

NOTE:
SEE INTERIOR STEEL STUD FRAMING GAGE CHART FOR STEEL STUD GAGES

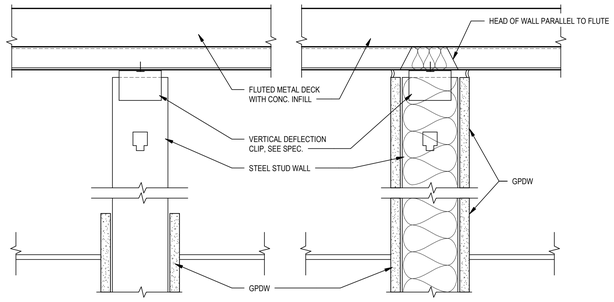
1 WALL TYPES

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



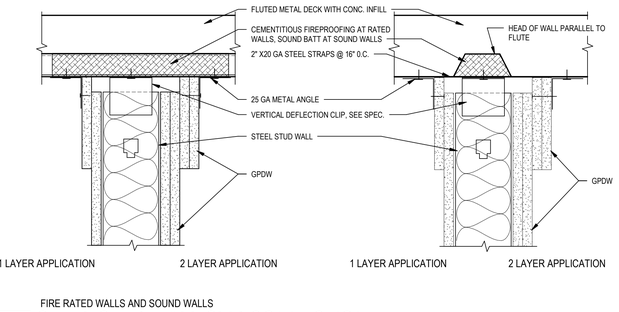
2 TEMPORARY WALL PARTITION

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



3 STEEL STUD WALL SLIP CONNECTION - TYP.

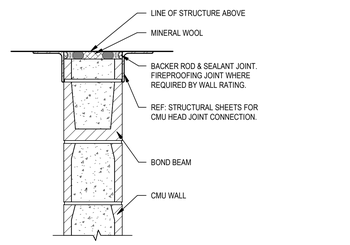
SCALE: 1 1/2" = 1'-0"



FIRE RATED WALLS AND SOUND WALLS

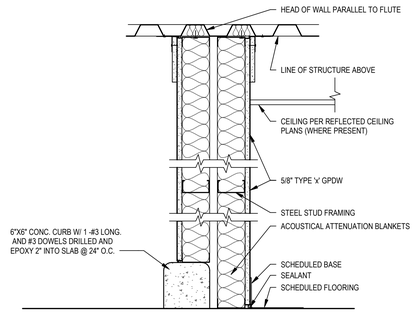
4 STEEL STUD WALL SLIP CONNECTION

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



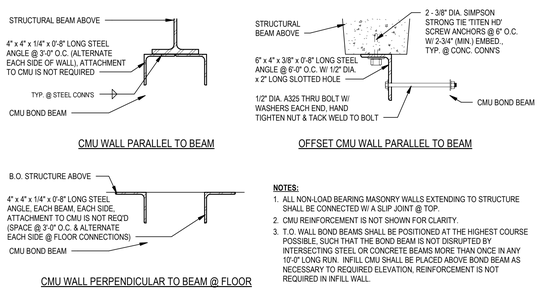
5 CMU WALL SLIP CONNECTION - TYP.

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



6 WALL DETAIL @ MECHANICAL ROOM

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

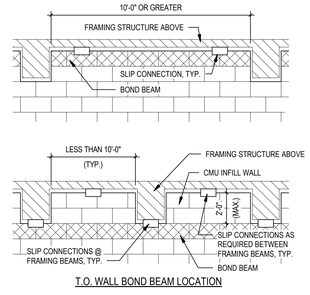


NOTES:

1. ALL NON-LOAD BEARING MASONRY WALLS EXTENDING TO STRUCTURE SHALL BE CONNECTED W/ A SLIP JOINT @ TOP.
2. CMU REINFORCEMENT IS NOT SHOWN FOR CLARITY.
3. T.O. WALL BOND BEAMS SHALL BE POSITIONED AT THE HIGHEST COURSE POSSIBLE, SUCH THAT THE BOND BEAM IS NOT DISRUPTED BY INTERSECTING STEEL OR CONCRETE BEAMS MORE THAN ONCE IN ANY 10'-0" LONG RUN. INFILL CMU SHALL BE PLACED ABOVE BOND BEAM AS NECESSARY TO REQUIRED ELEVATION. REINFORCEMENT IS NOT REQUIRED IN INFILL WALL.

7 CMU T.O. WALL SLIP CONNECTIONS

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



INTERIOR STEEL STUD FRAMING GAGE TABLE (1)						
	STANDARD DESIGNATION	DRAWING DESIGNATION	MINIMUM BASE METAL THICKNESS (4)	TYPE 1 MAXIMUM HEIGHT (2)	TYPE 2 MAX. HEIGHT W/ BRACING (2)(3) @ 48" O.C.	@ 72" O.C.
Fy = 33 KSI	250S125-27	2 1/2" x 22 GA.	0.0269"	11' - 3"	11' - 3"	11' - 0"
	250S125-33	2 1/2" x 20 GA.	0.0329"	12' - 0"	12' - 0"	12' - 0"
	362S125-27	3 5/8" x 22 GA.	0.0269"	14' - 9"	14' - 9"	12' - 11"
	362S125-33	3 5/8" x 20 GA.	0.0329"	15' - 10"	15' - 10"	14' - 10"
	362S125-43	3 5/8" x 18 GA.	0.0428"	17' - 4"	17' - 4"	17' - 4"
	600S125-27(5)	6" x 22 GA.	0.0269"	21' - 3"	21' - 3"	18' - 0"
	600S125-33	6" x 20 GA.	0.0329"	23' - 4"	23' - 4"	19' - 8"
	600S125-43	6" x 18 GA.	0.0428"	26' - 1"	26' - 1"	23' - 11"
	800S125-43	8" x 18 GA.	0.0428"	33' - 1"	33' - 1"	33' - 1"
Fy = 50 KSI	362S162-54	3 5/8" x 16 GA.	0.0538"	20' - 4"	20' - 4"	20' - 4"
	600S162-54	6" x 16 GA.	0.0538"	30' - 5"	30' - 5"	27' - 7"
	800S162-54	8" x 16 GA.	0.0538"	38' - 4"	38' - 4"	38' - 4"

1. TABLE SHALL BE USED FOR NON-LOAD BEARING INTERIOR WALLS ONLY.
2. DESIGN HEIGHTS BASED ON A 5 PSF UNREDUCED LATERAL PRESSURE W/ A DEFLECTION OF L/240 FOR NON-COMPOSITE STUDS. MAXIMUM STUD SPACING IS 16" O.C.
3. TYPE 2 WALLS ARE NOT ALLOWED WITHOUT BRACING.
4. MIN. 0.020" THICK STUDS FOR CEMENT BOARD AND ABUSE RESISTANT GPDW APPLICATIONS. REF: WALL BOARD MANUFACTURERS REQUIREMENTS.
5. WEB STIFFENERS ARE REQUIRED AT STUD ATTACHMENT POINTS, SEE WEB STIFFENER CONNECTION DETAIL ON SHEET A0.01 FOR WEB STIFFENER SIZE & ATTACHMENT.

GENERAL NOTES:

1) CONTRACTOR TO COORDINATE SPACING OF STUDS W/ MECH. AND ELECTRICAL DRAWINGS.

2) WHERE CERAMIC TILE IS INDICATED ON THE FINISH SCHEDULE CONTRACTOR SHALL INSTALL A TILE BACKING PANEL AND/OR CEMENT BOARD IN LIEU OF GPDW INDICATED. SEE SPECIFICATION FOR ADDITIONAL INFORMATION

3) SCHEDULED WALL TYPES THAT INCLUDE WALL TILE ALLOW FOR 1/2" TILE & SETTING BED THICKNESS IN THE LISTED "ACTUAL SIZE" DIMENSIONS.

4) WHERE PLYWOOD IS INDICATED ON THE DRAWINGS CONTRACTOR SHALL INSTALL PLYWOOD IN LIEU OF GPDW INDICATED. SEE ELECTRICAL AND ARCHITECTURAL SHEETS FOR PLYWOOD LOCATIONS.

5) REF: SLIP CONNECTION DETAILS THIS SHEET FOR APPLICABLE TOP OF WALL CONDITIONS AT WALL TYPES.

6) STC-RATED ASSEMBLIES AND PARTITIONS INDICATED TO RECEIVE SOUND INSULATION: SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS & PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL JOINT SEALANT. INSTALL ACOUSTICAL JOINT SEALANTS AT BOTH FACES OF PARTITIONS, AT PERIMETER AND THROUGH PENETRATIONS.

7) ALL WALL FRAMING THAT DOES NOT EXTEND TO STRUCTURE OR DECK SHALL BE BRACED AT 48" O.C. MIN.

8) PAINT WALLS PER ROOM FINISH SCHEDULE.

9) ALL WALL BOARD IN MECHANICAL ROOMS SHALL BE MOLD & MOISTURE RESISTANT DRYWALL.

STANDARD MEMBER SIZE DESIGNATION: 600S162-54
- MIL DESIGN THICKNESS (1/1000 INCH)
- FLANGE WIDTH (1/100 INCH)
- STYLE: S = STUD, T = TRACK
- WEB DEPTH (1/100 INCH)

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Architecture Contact: Tim Ripp
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1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED	-	-

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

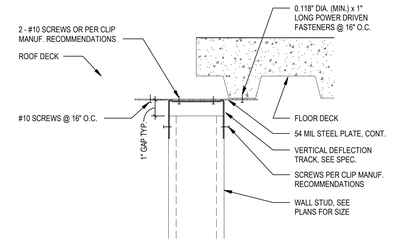
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Wall Type Schedule & Details

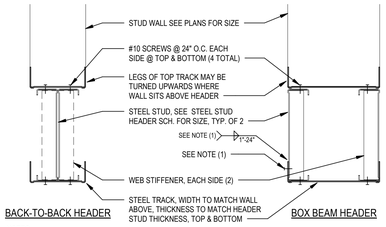
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1 STEEL STUD TO METAL DECK CONNECTION

SCALE: 3" = 1'-0"

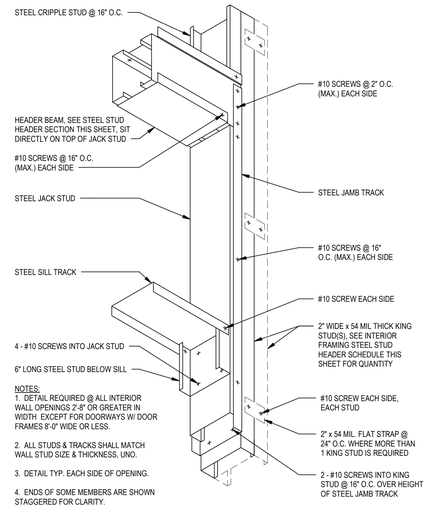


NOTES:
1. SCREW FASTENERS MAY BE INSTALLED THROUGH LEG OF TRACK, OR TRACK MAY BE WELDED TO STUD, ON BOX BEAM HEADERS WHERE THE STEEL TRACK LEG OVERLAPS STUD WEB.

2. WEB STIFFENERS ARE REQUIRED AT ENDS OF ALL BOX BEAM HEADERS. SEE INTERIOR FRAMING STEEL STUD HEADER SCHEDULE THIS SHEET FOR REQUIRED WEB STIFFENERS ON BACK-TO-BACK HEADERS. SEE WEB STIFFENER CONNECTION DETAIL THIS SHEET FOR WEB STIFFENER SIZE & ATTACHMENT.

2 STEEL STUD HEADER SECTION

SCALE: 3" = 1'-0"



NOTES:
1. DETAIL REQUIRED @ ALL INTERIOR WALL OPENINGS 2'-0" OR GREATER IN WIDTH EXCEPT FOR DOORWAYS W/ DOOR FRAMES 8'-0" WIDE OR LESS.

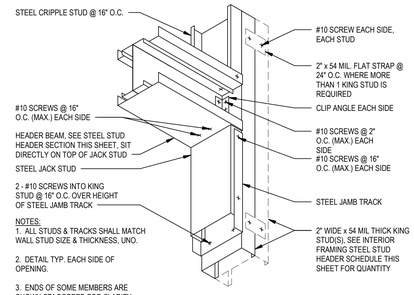
2. ALL STUDS & TRACKS SHALL MATCH WALL STUD SIZE & THICKNESS, UNO.

3. DETAIL TYP. EACH SIDE OF OPENING.

4. ENDS OF SOME MEMBERS ARE SHOWN STAGGERED FOR CLARITY.

3 TYPICAL WALL OPENING DETAIL

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



NOTES:
1. ALL STUDS & TRACKS SHALL MATCH WALL STUD SIZE & THICKNESS, UNO.

2. DETAIL TYP. EACH SIDE OF OPENING.

3. ENDS OF SOME MEMBERS ARE SHOWN STAGGERED FOR CLARITY.

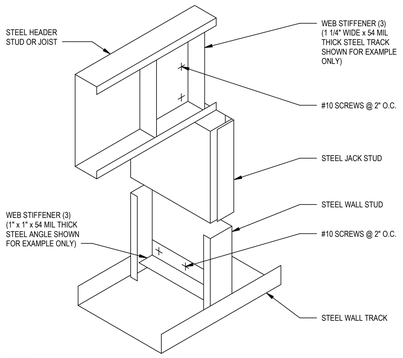
4 BACK-TO-BACK HEADER CONNECTION

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

INTERIOR FRAMING STEEL STUD HEADER SCHEDULE (1)

	WALL STUD WIDTH	MINIMUM BASE METAL THICKNESS	TRACK DESIGNATION (4)	HEADER STUD DESIGNATION (3)(4)(5)	KING STUDS		MAXIMUM OPENING LENGTH (2)
					DESIGNATION	#	
INTERIOR ONLY STUDS, Fy = 33 KSI	2 1/2"	0.0269"	250T125-27	250S125-27	250S200-54	1	6' - 8"
		0.0329"	250T125-33	250S125-33	250S200-54	1	7' - 1"
	3 5/8"	0.0269"	362T125-27	362S125-27	362S200-54	1	6' - 10"
				600S125-27(6)	600S200-54	1	8' - 1"
		0.0329"	362T125-33	362S125-33	362S200-54	1	7' - 5"
				600S125-33	600S200-54	1	8' - 7"
		0.0428"	362T125-43	362S125-43	362S200-54	1	8' - 2"
				600S125-43	600S200-54	1	9' - 0"
	6"	0.0269"	600T125-27	600S125-27(6)	600S200-54	1	5' - 11"
		0.0329"	600T125-33	600S125-33	600S200-54	1	6' - 5"
		0.0428"	600T125-43	600S125-43	600S200-54	1	7' - 8"
				800S125-43	800S200-54	1	8' - 6"
	8"	0.0428"	800T125-43	800S125-43	800S200-54	1	7' - 2"
Fy = 50 KSI	3 5/8"	0.0538"	362T125-54	362S162-54	362S200-54	2	9' - 8"
	6"	0.0538"	600T125-54	600S162-54	600S200-54	2	10' - 11"
	8"	0.0538"	800T125-54	800S162-54	800S200-54	2	10' - 11"

1. TABLE SHALL BE USED FOR NON-LOAD BEARING INTERIOR WALLS ONLY.
2. DESIGN LENGTHS BASED ON A HEADER ABOVE A 7'-0" TALL OPENING, A 12 PSF WALL WEIGHT & A 5 PSF LATERAL AIR PRESSURE OVER THE TYPE 1 MAXIMUM WALL HEIGHT W/ A MAXIMUM DEFLECTION OF L/360.
3. HEADER STUDS 0.0538" & THICKER SHALL NOT HAVE WEB PUNCHOUTS.
4. HEADER STUDS & TRACKS SHALL OF THE SAME THICKNESS & STEEL GRADE OF WALL STUDS. HEADER TRACK WIDTHS SHALL ALSO BE OF THE SAME WIDTH OF WALL STUDS.
5. STUD THICKNESSES SHOWN IN TABLE ARE MINIMUM REQUIRED, LARGER THICKNESSES MAY BE SUBSTITUTED.
6. WEB STIFFENERS ARE REQUIRED ABOVE BEARING POINTS AT ENDS OF BACK-TO-BACK HEADER STUDS. SEE WEB STIFFENER CONNECTION DETAIL THIS SHEET FOR WEB STIFFENER SIZE & ATTACHMENT.



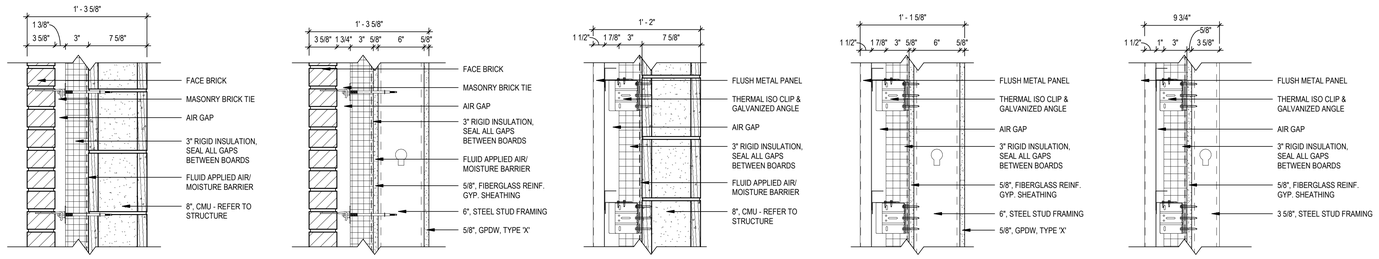
NOTES:
1. EDGE OF WEB STIFFENER SHOULD BE 3/4" FROM EDGE OF STUD.

2. ONLY FASTENERS FOR WEB STIFFENER ATTACHMENT SHOWN FOR CLARITY.

3. 1" x 1" x 54 MIL THICK STEEL ANGLES OR 1 1/4" WIDE x 54 MIL THICK STEEL TRACKS SHALL BE USED FOR ALL WEB STIFFENERS.

5 WEB STIFFENER CONNECTION DETAIL

SCALE: 3" = 1'-0"



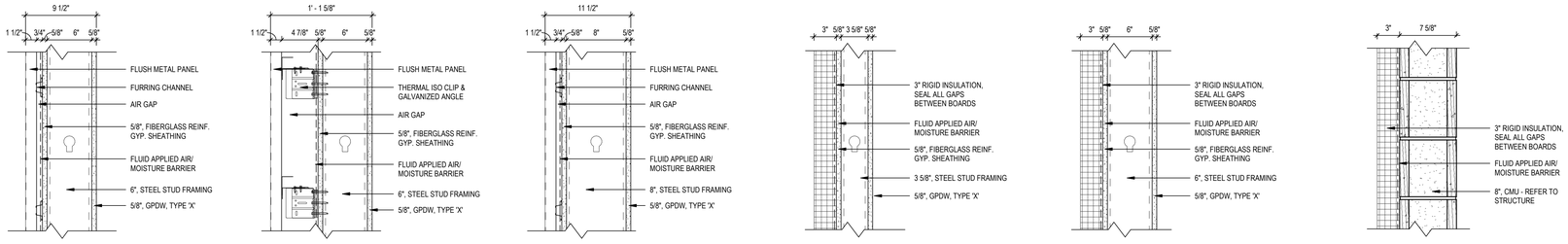
X1 CMU STRUCTURE — MASONRY CLADDING - RIGID INSULATION

X2 STEEL STUD FRAME STRUCTURE — MASONRY CLADDING - RIGID INSULATION

X3 CMU STRUCTURE — METAL PANEL CLADDING - RIGID INSULATION

X4.1 STEEL STUD FRAME STRUCTURE — METAL PANEL CLADDING - RIGID INSULATION

X4.2 STEEL STUD FRAME STRUCTURE — METAL PANEL CLADDING - RIGID INSULATION



X5.1 STEEL STUD FRAME STRUCTURE — METAL PANEL CLADDING

X5.2 STEEL STUD FRAME STRUCTURE — METAL PANEL CLADDING

X5.3 STEEL STUD FRAME STRUCTURE — METAL PANEL CLADDING

X6.1 STEEL STUD FRAME STRUCTURE — RIGID INSULATION

X6.2 STEEL STUD FRAME STRUCTURE — RIGID INSULATION

X7 CMU STRUCTURE — RIGID INSULATION

6 EXTERIOR WALL ASSEMBLIES

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

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Construction Documents

Heartland Community Schools Addition & Renovation

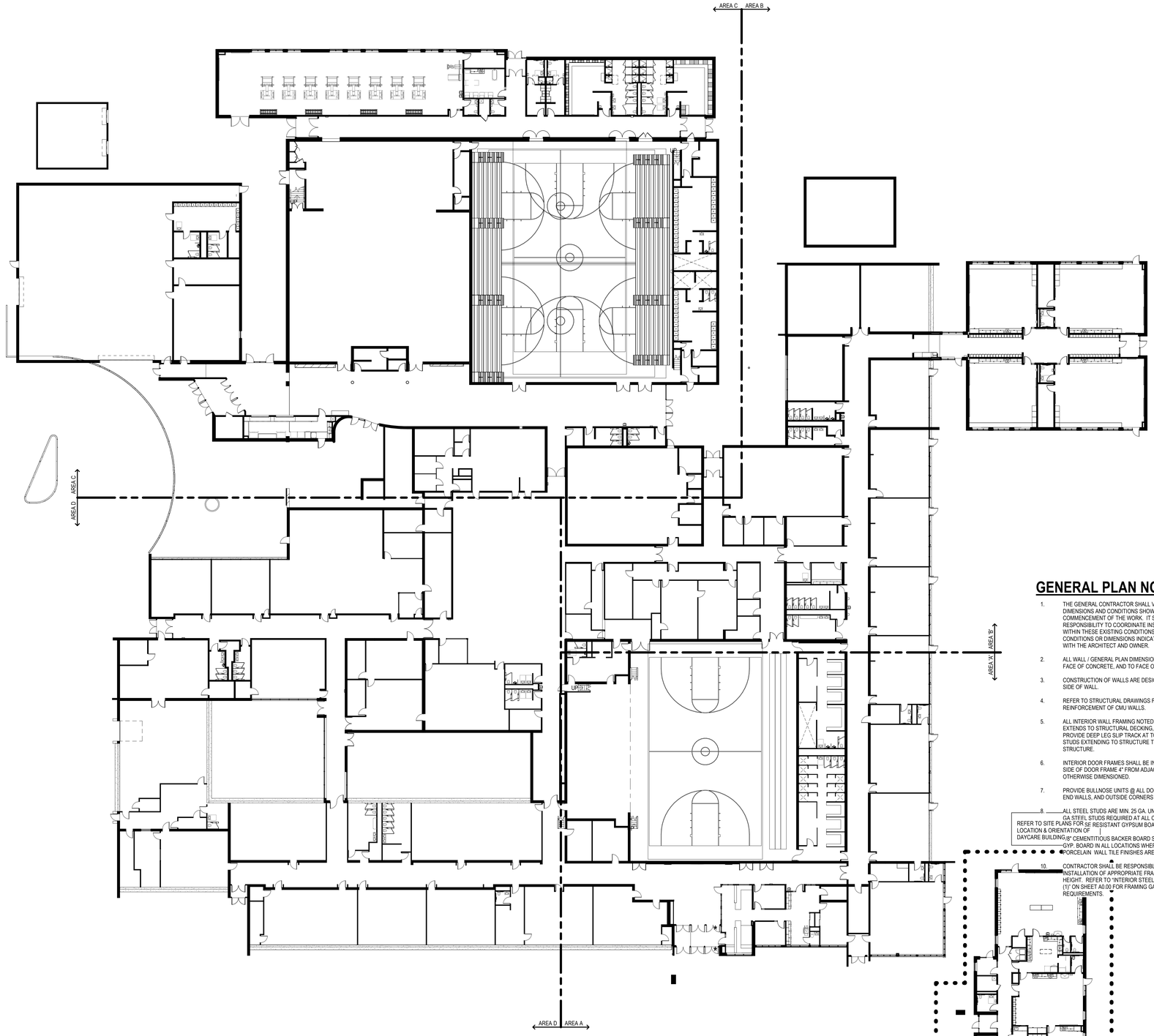
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Henderson, NE 68371

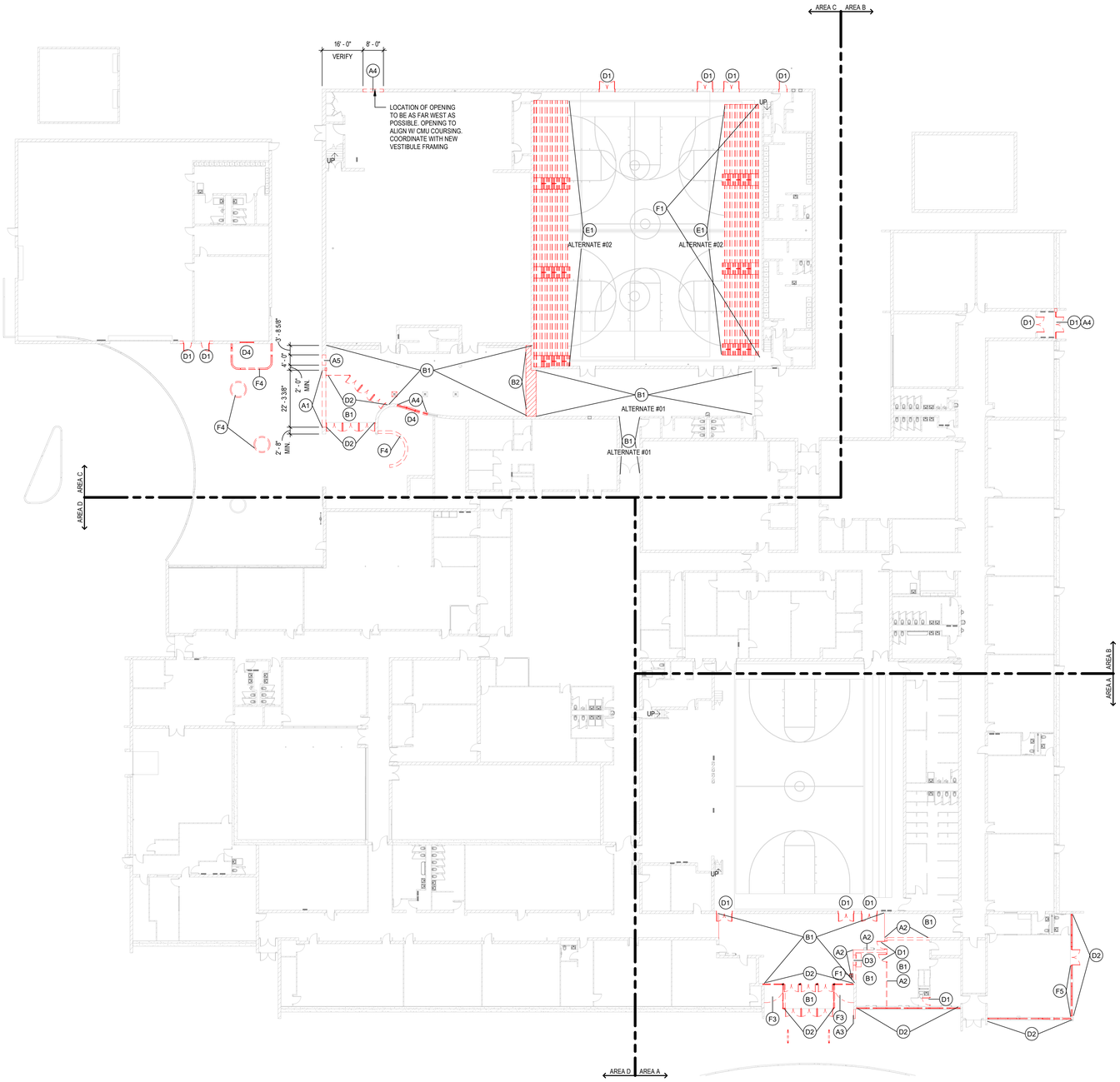
CE No.: 380-001-21

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Typical Interior Stud Framing Details & Exterior Wall Assemblies

A0.01


AREA C
AREA B
AREA D
AREA C
AREA B
AREA A
AREA D
UP 01'-0"
UP 01'-0"
UP 01'-0"



FIRST FLOOR DEMO PLAN

SCALE: 1" = 20'-0"

TRUE NORTH

PLAN NORTH

DEMOLITION KEY NOTES (A1)

A-WALLS	
A1	REMOVE EXISTING EXTERIOR C.M.U. WALL W/ BRICK VENEER SECTION IN ITS ENTIRETY FROM FOOTING TO TOP OF WALL TO THE EXTENT SHOWN. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., BRICK VENEER, TRIM(S), FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A2	REMOVE EXISTING C.M.U. WALL PARTITION IN ITS ENTIRETY FROM FOOTING TO TOP OF WALL TO THE EXTENT SHOWN, INCLUDING BUT NOT LIMITED TO C.M.U., TRIM(S), ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE FLOOR AS NEEDED TO DEMOLISH PARTITION AND FOOTING(S) AS REQ'D (COORD. W/ STRUCTURAL). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A3	REMOVE EXISTING BRICK WING WALL TO EXTENTS SHOWN
A4	REMOVE EXISTING WALL PARTITION SECTION TO THE EXTENT SHOWN TO ALLOW FOR NEW DOOR OR OPENING. COORDINATE SIZE & LOCATION W/ FLOOR PLAN. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., CONCRETE SILL, FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE FLOOR AS NEEDED TO DEMOLISH PARTITION TO FOOTING(S). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A5	REMOVE EXISTING WALL SECTION TO THE EXTENT SHOWN TO ALLOW FOR NEW OPENING. HEIGHT OF OPENING TO BE 9'-4", DIMENSIONS SHOWN ARE TO APPROXIMATE, ALIGN W/ CMU COURSING. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., CONCRETE SILL, FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
B-FLOORS	
B1	REMOVE EXISTING FINISH FLOORING AND WALL BASE TO THE EXTENT SHOWN. PREPARE SUBFLOOR AND WALL TO RECEIVE NEW FINISH FLOORING AND WALL BASE. COORDINATE EXTENT OF NEW FINISH FLOORING W/ INTERIOR FINISHES. REPAIR WALLS, IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
B2	REMOVE EXISTING CONCRETE FLOORING AS REQUIRED TO RECOMPACT SOIL TO ADDRESS SETTLING.
D-DOORS & OPENINGS	
D1	REMOVE EXISTING DOOR IN ITS ENTIRETY TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO DOOR LEAF, DOOR FRAME, SIDELIGHT GLAZING, TRANSOM GLAZING, HARDWARE AND ALL SEALANT. PROTECT AND SALVAGE DOOR & HARDWARE. RETURN TO OWNER FOR RE-USE. PROTECT AND SALVAGE ADJACENT FINISHED SURFACES. REPAIR WALL, VAPOR BARRIER, INSULATION, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
D2	REMOVE EXISTING EXTERIOR ALUMINUM STOREFRONT WINDOW SYSTEM TO THE EXTENT SHOWN TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO GLAZING, WINDOW FRAMING, FLASHING AND ALL SEALANT. PROTECT AND SALVAGE ADJACENT FINISHED SURFACES. REPAIR WALL, VAPOR BARRIER, INSULATION, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
D3	REMOVE EXISTING COILING COUNTER DOOT IN ITS ENTIRETY TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO DOOR, GUIDES, HARDWARE AND ALL SEALANT.
D4	REMOVE EXISTING WINDOW IN ITS ENTIRETY TO THE ROUGH OPENING. PROTECT ADJACENT FINISHED SURFACES. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
E-EQUIPMENT & FURNISHINGS	
E1	REMOVE EXISTING BLEACHERS IN ITS ENTIRETY. INCLUDING BUT NOT LIMITED TO EQUIPMENT, FLOOR MOUNTED HARDWARE, ELECTRICAL. REMOVE ELECTRICAL BACK TO JUNCTION OR PANEL. REPAIR FLOOR TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
F-MISCELLANEOUS	
F1	
F3	REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY
F4	REMOVE EXISTING SITE WALL, COORD. WITH SITE PLAN
F5	REMOVE EXISTING WOOD WINDOW TRIM IN ITS ENTIRETY. PREP WALL FOR NEW WORK.
G-ROOF	
G1	REMOVE EXISTING GUTTER FOR CONSTRUCTION OF NEW WALL AND FLASHING. SALVAGE FOR REINSTALLATION.
G2	CUT EXISTING DOWNSPOUT AS REQUIRED TO EMPTY ONTO NEW ROOF.
G3	REMOVE EXISTING METAL FASCIA AND FLASHING. COORDINATE EXTENTS WITH NEW CONSTRUCTION.
G5	REMOVE EXISTING METAL AWNING IN ITS ENTIRETY
G6	REMOVE EXISTING CANOPY SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO STEEL FRAMING, BUILT-UP ROOF SYSTEM, GUTTERS AND DOWNSPOUTS, LIGHT FIXTURES, AND FIRE DEVICES.

GENERAL DEMOLITION NOTES

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
2. PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK THAT IS TO OCCUR AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF NEW WORK WITHIN EXISTING CONDITIONS.
5. ALL MATERIALS REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
6. ALL WALLS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ELECTRICAL RECEPTACLES, SWITCHES AND CONDUITS, TELEPHONE OUTLETS, WIRING, MECHANICAL PIPING, AND PLUMBING, ETC.
7. REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE ABANDONED AND NOT INTENDED FOR REUSE. PREPARE SURFACE FOR NEW FINISH.
8. COORDINATE ALL DEMOLITION WORK BETWEEN TRADES.
9. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING WITH DEMOLTION ACTIVITIES.
10. REFER TO REFLECTED CEILING PLANS, MECHANICAL SHEETS, & ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
12. BEFORE DEMOLITION BEGINS, CONTRACTOR SHALL CONFER WITH THE OWNER AND/OR BUILDING USERS TO SCHEDULE DISRUPTION OF DAILY ACTIVITIES.
13. ALL PRODUCTS AND EQUIPMENT SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
14. PURSUANT TO THE FEDERAL OSHA EMPLOYEE RIGHT-TO-KNOW ACT, THE CONTRACTOR IS HEREBY ADVISED THAT A POTENTIAL FOR LEAD HAZARD EXISTS. LEAD PAINT CAN BE PRESENT ON OLDER PAINTED SURFACES. THE CONTRACTOR IS ADVISED THAT HE/SHE IS RESPONSIBLE TO COMPLY WITH THE FEDERAL STANDARDS FOR LEAD PAINT IN THE CONSTRUCTION INDUSTRY THAT WERE ADOPTED IN JUNE OF 1993 BY OSHA CFR 29 PART 1926.62. THESE REGULATIONS REQUIRE THE CONTRACTOR TO DEVELOP WORK STRATEGIES WHEN WORKING WITH LEAD TO MINIMIZE AND PROTECT WORKERS FROM LEAD HAZARDS.
15. ASBESTOS ABATEMENT WILL BE PERFORMED UNDER SEPARATE CONTRACT. IF ASBESTOS IS SUSPECTED OR DISCOVERED DURING DEMOLITION, NOTIFY THE ARCHITECT.
16. CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
17. FINAL CLEANING SHALL INCLUDE THE FOLLOWING:
    - A. REMOVE LABELS THAT ARE NOT INTENDED TO BE PERMANENT.
    - B. CLEAN ALL TRANSPARENT SURFACES, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS.
    - C. CLEAN EXPOSED SURFACES AND INTERIOR HARD-SURFACED FINISHES TO A DUST-FREE CONDITION

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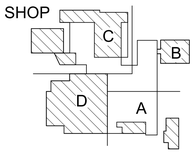
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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

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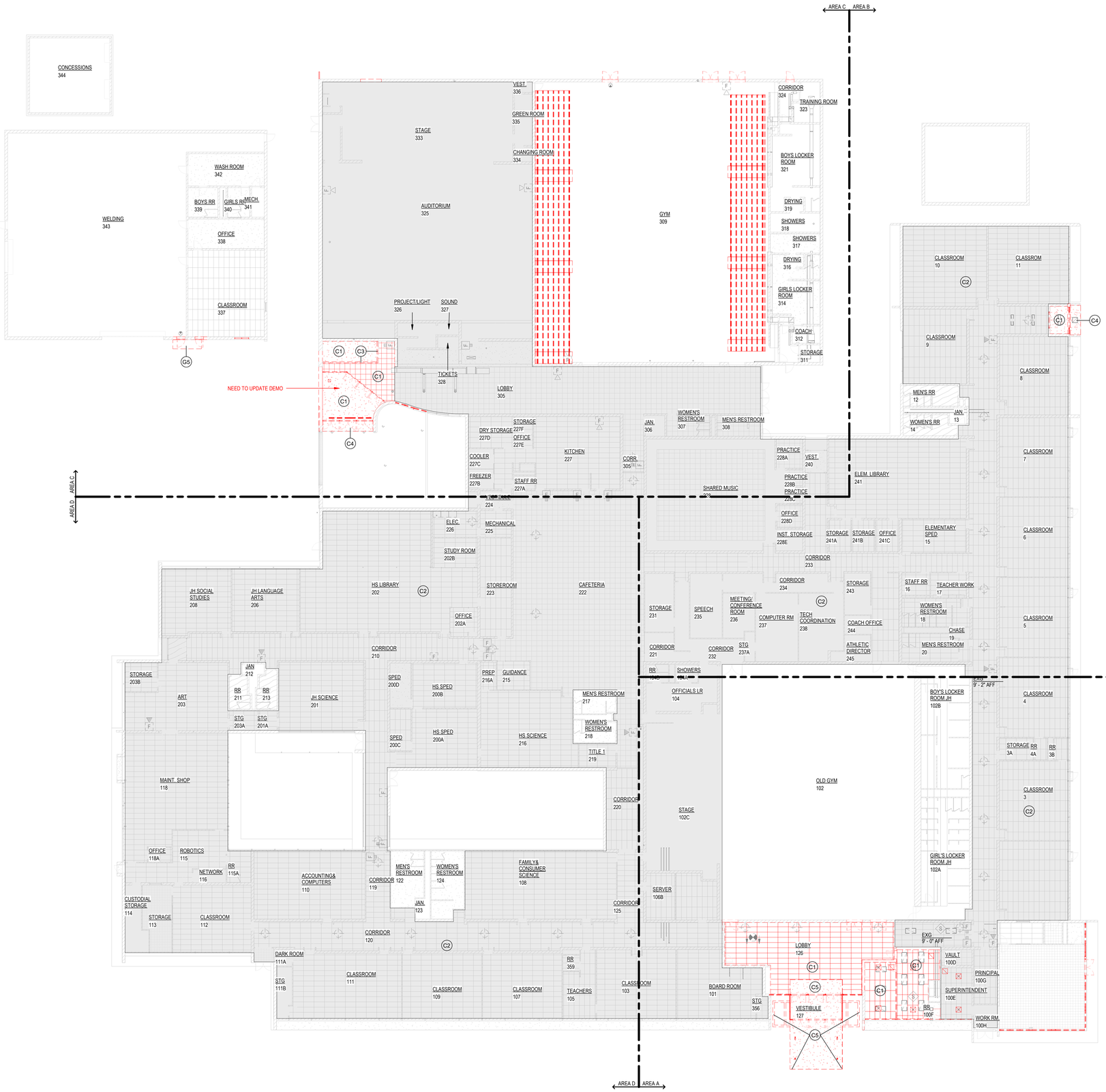
First Floor Demolition Plan

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RCP DEMOLITION KEY NOTES

C-CEILINGS	
C1	REMOVE EXISTING CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO CEILING PADS, CEILING GRID, LIGHT FIXTURES, MECHANICAL DIFFUSERS, SPRINKLER HEADS, ELECTRICAL SIGNAGE AND FIRE DEVICES. COORDINATE EXTENT OF MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION WITH NEW CONSTRUCTION. REPAIR WALLS, IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
C2	REMOVE EXISTING LAY-IN ACOUSTICAL CEILING PADS AS REQUIRED FOR INSTALLATION OF NEW FIRE SPRINKLER SYSTEM. EXTENT SHOWN BY HATCHED AREA. COORDINATE EXTENT OF DEMOLITION W/ MECHANICAL, ELECTRICAL AND PLUMBING NEW CONSTRUCTION. REPLACE PADS DAMAGED DURING BY NEW WORK TO MATCH EXISTING.
C3	REMOVE EXISTING GYP. BD. FRAMED BULKHEAD TO THE EXTENT SHOWN, INCLUDING BUT NOT LIMITED TO GYP. BD, STUD FRAMING, AND BRACING. REPAIR OR REROUTE EXISTING MECHANICAL, ELECTRICAL OR PLUMBING TO REMAIN AS NEEDED. COORDINATE EXTENT OF MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION WITH NEW CONSTRUCTION. REPAIR ADJACENT WALLS, IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
C4	REMOVE EXISTING PLASTER SOFFIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND FIRE DEVICES.
C5	REMOVE EXISTING METAL SOFFIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES AND FIRE DEVICES.



FIRST FLOOR DEMOLITION

SCALE: 1/16" = 1'-0"

TRUE NORTH PLAN NORTH

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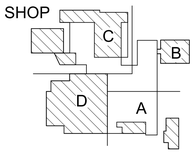
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1 2 3	**SHEET HISTORY:**	
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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

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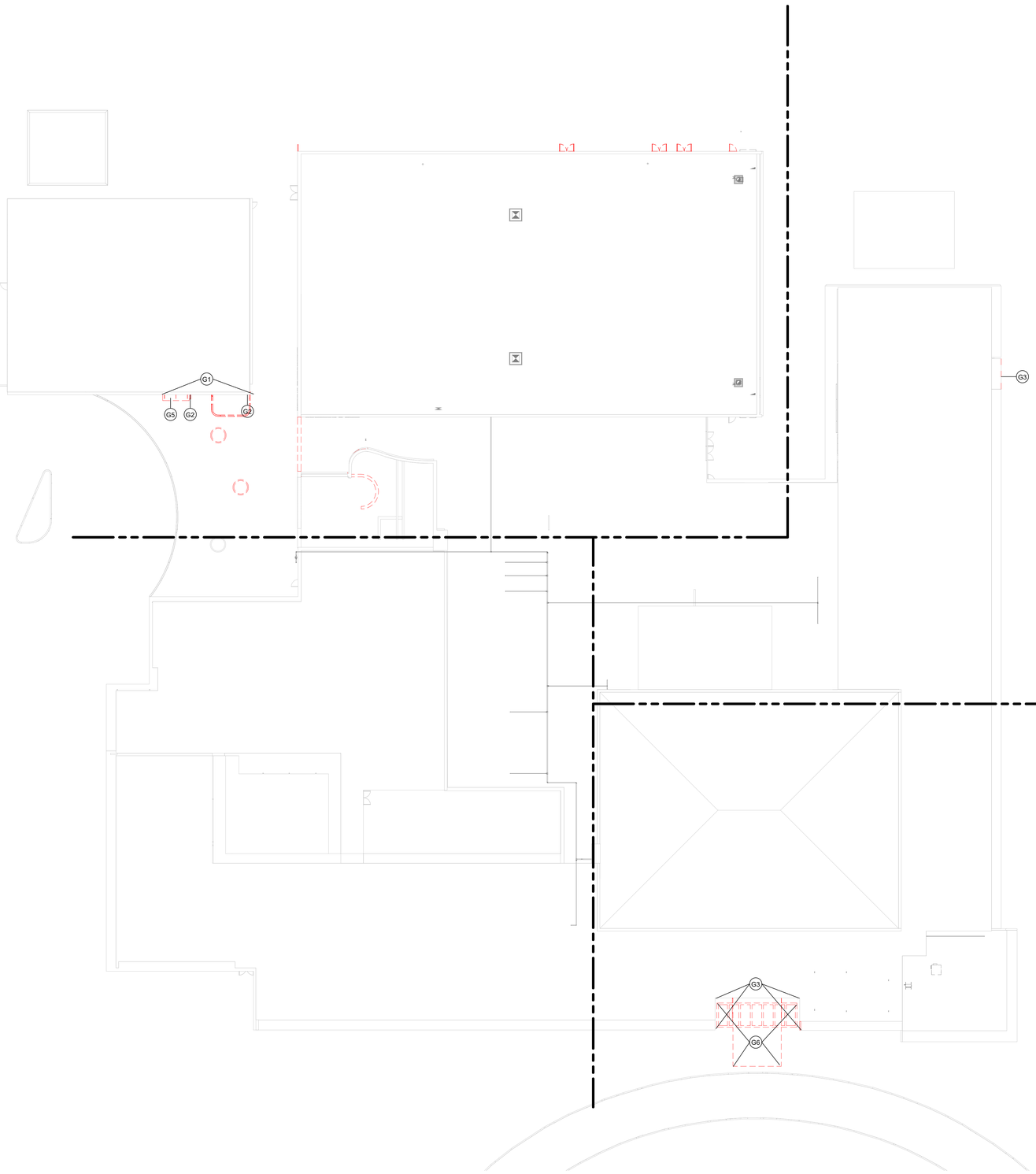
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First Floor Reflected Ceiling Demolition Plan

A0.21

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ROOF DEMOLITION PLAN

SCALE: 1" = 20'-0"

TRUE NORTH

PLAN NORTH

DEMOLITION KEY NOTES (A1)

A-WALLS	
A1	REMOVE EXISTING EXTERIOR C.M.U. WALL W/ BRICK VENEER SECTION IN ITS ENTIRETY FROM FOOTING TO TOP OF WALL TO THE EXTENT SHOWN. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., BRICK VENEER, TRIM(S), FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A2	REMOVE EXISTING C.M.U. WALL PARTITION IN ITS ENTIRETY FROM FOOTING TO TOP OF WALL TO THE EXTENT SHOWN, INCLUDING BUT NOT LIMITED TO C.M.U., TRIM(S), ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE FLOOR AS NEEDED TO DEMOLISH PARTITION AND FOOTING(S) AS REQ'D (COORD. W/ STRUCTURAL). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A3	REMOVE EXISTING BRICK WING WALL TO EXTENTS SHOWN
A4	REMOVE EXISTING WALL PARTITION SECTION TO THE EXTENT SHOWN TO ALLOW FOR NEW DOOR OR OPENING. COORDINATE SIZE & LOCATION W/ FLOOR PLAN. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., CONCRETE SILL, FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE FLOOR AS NEEDED TO DEMOLISH PARTITION TO FOOTING(S). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
A5	REMOVE EXISTING WALL SECTION TO THE EXTENT SHOWN TO ALLOW FOR NEW OPENING. HEIGHT OF OPENING TO BE 9'-4", DIMENSIONS SHOWN ARE TO APPROXIMATE, ALIGN W/ CMU COURSING. DEMOLITION SHALL INCLUDE BUT NOT BE LIMITED TO C.M.U., CONCRETE SILL, FRAMING, ELECTRICAL, AND MECHANICAL, (STRUCTURAL STEEL TO REMAIN). REMOVE ELECTRICAL AND MECHANICAL BACK TO JUNCTION OR MAIN SUPPLYING UTILITY AND CAP. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
B-FLOORS	
B1	REMOVE EXISTING FINISH FLOORING AND WALL BASE TO THE EXTENT SHOWN. PREPARE SUBFLOOR AND WALL TO RECEIVE NEW FINISH FLOORING AND WALL BASE. COORDINATE EXTENT OF NEW FINISH FLOORING W/ INTERIOR FINISHES. REPAIR WALLS, IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
B2	REMOVE EXISTING CONCRETE FLOORING AS REQUIRED TO RECOMPACT SOIL TO ADDRESS SETTLING.
D-DOORS & OPENINGS	
D1	REMOVE EXISTING DOOR IN ITS ENTIRETY TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO DOOR LEAF, DOOR FRAME, SIDELIGHT GLAZING, TRANSOM GLAZING, HARDWARE AND ALL SEALANT. PROTECT AND SALVAGE DOOR & HARDWARE. RETURN TO OWNER FOR RE-USE. PROTECT AND SALVAGE ADJACENT FINISHED SURFACES. REPAIR WALL, VAPOR BARRIER, INSULATION, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
D2	REMOVE EXISTING EXTERIOR ALUMINUM STOREFRONT WINDOW SYSTEM TO THE EXTENT SHOWN TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO GLAZING, WINDOW FRAMING, FLASHING AND ALL SEALANT. PROTECT AND SALVAGE ADJACENT FINISHED SURFACES. REPAIR WALL, VAPOR BARRIER, INSULATION, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
D3	REMOVE EXISTING COILING COUNTER DOOT IN ITS ENTIRETY TO THE ROUGH OPENING, INCLUDING BUT NOT LIMITED TO DOOR, GUIDES, HARDWARE AND ALL SEALANT.
D4	REMOVE EXISTING WINDOW IN ITS ENTIRETY TO THE ROUGH OPENING. PROTECT ADJACENT FINISHED SURFACES. REPAIR WALL, FLOORING, CEILING AND ADJACENT WALL(S), IF APPLICABLE, TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
E-EQUIPMENT & FURNISHINGS	
E1	REMOVE EXISTING BLEACHERS IN ITS ENTIRETY. INCLUDING BUT NOT LIMITED TO EQUIPMENT, FLOOR MOUNTED HARDWARE, ELECTRICAL. REMOVE ELECTRICAL BACK TO JUNCTION OR PANEL. REPAIR FLOOR TO MATCH EXISTING FINISH, OR COORDINATE W/ NEW CONSTRUCTION & INTERIOR FINISHES.
F-MISCELLANEOUS	
F1	
F3	REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY
F4	REMOVE EXISTING SITE WALL, COORD. WITH SITE PLAN
F5	REMOVE EXISTING WOOD WINDOW TRIM IN ITS ENTIRETY. PREP WALL FOR NEW WORK.
G-ROOF	
G1	REMOVE EXISTING GUTTER FOR CONSTRUCTION OF NEW WALL AND FLASHING. SALVAGE FOR REINSTALLATION.
G2	CUT EXISTING DOWNSPOUT AS REQUIRED TO EMPTY ONTO NEW ROOF.
G3	REMOVE EXISTING METAL FASCIA AND FLASHING. COORDINATE EXTENTS WITH NEW CONSTRUCTION.
G5	REMOVE EXISTING METAL AWNING IN ITS ENTIRETY
G6	REMOVE EXISTING CANOPY SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO STEEL FRAMING, BUILT-UP ROOF SYSTEM, GUTTERS AND DOWNSPOUTS, LIGHT FIXTURES, AND FIRE DEVICES.

GENERAL DEMOLITION NOTES

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
2. PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK THAT IS TO OCCUR AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF NEW WORK WITHIN EXISTING CONDITIONS.
5. ALL MATERIALS REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
6. ALL WALLS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ELECTRICAL RECEPTACLES, SWITCHES AND CONDUITS, TELEPHONE OUTLETS, WIRING, MECHANICAL PIPING, AND PLUMBING, ETC.
7. REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE ABANDONED AND NOT INTENDED FOR REUSE. PREPARE SURFACE FOR NEW FINISH.
8. COORDINATE ALL DEMOLITION WORK BETWEEN TRADES.
9. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING WITH DEMOLTION ACTIVITIES.
10. REFER TO REFLECTED CEILING PLANS, MECHANICAL SHEETS, & ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
12. BEFORE DEMOLITION BEGINS, CONTRACTOR SHALL CONFER WITH THE OWNER AND/OR BUILDING USERS TO SCHEDULE DISRUPTION OF DAILY ACTIVITIES.
13. ALL PRODUCTS AND EQUIPMENT SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
14. PURSUANT TO THE FEDERAL OSHA EMPLOYEE RIGHT-TO-KNOW ACT, THE CONTRACTOR IS HEREBY ADVISED THAT A POTENTIAL FOR LEAD HAZARD EXISTS. LEAD PAINT CAN BE PRESENT ON OLDER PAINTED SURFACES. THE CONTRACTOR IS ADVISED THAT HE/SHE IS RESPONSIBLE TO COMPLY WITH THE FEDERAL STANDARDS FOR LEAD PAINT IN THE CONSTRUCTION INDUSTRY THAT WERE ADOPTED IN JUNE OF 1993 BY OSHA CFR 29 PART 1926.62. THESE REGULATIONS REQUIRE THE CONTRACTOR TO DEVELOP WORK STRATEGIES WHEN WORKING WITH LEAD TO MINIMIZE AND PROTECT WORKERS FROM LEAD HAZARDS.
15. ASBESTOS ABATEMENT WILL BE PERFORMED UNDER SEPARATE CONTRACT. IF ASBESTOS IS SUSPECTED OR DISCOVERED DURING DEMOLITION, NOTIFY THE ARCHITECT.
16. CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
17. FINAL CLEANING SHALL INCLUDE THE FOLLOWING:
    - A. REMOVE LABELS THAT ARE NOT INTENDED TO BE PERMANENT.
    - B. CLEAN ALL TRANSPARENT SURFACES, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS.
    - C. CLEAN EXPOSED SURFACES AND INTERIOR HARD-SURFACED FINISHES TO A DUST-FREE CONDITION

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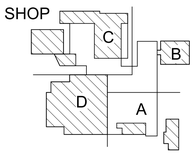
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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

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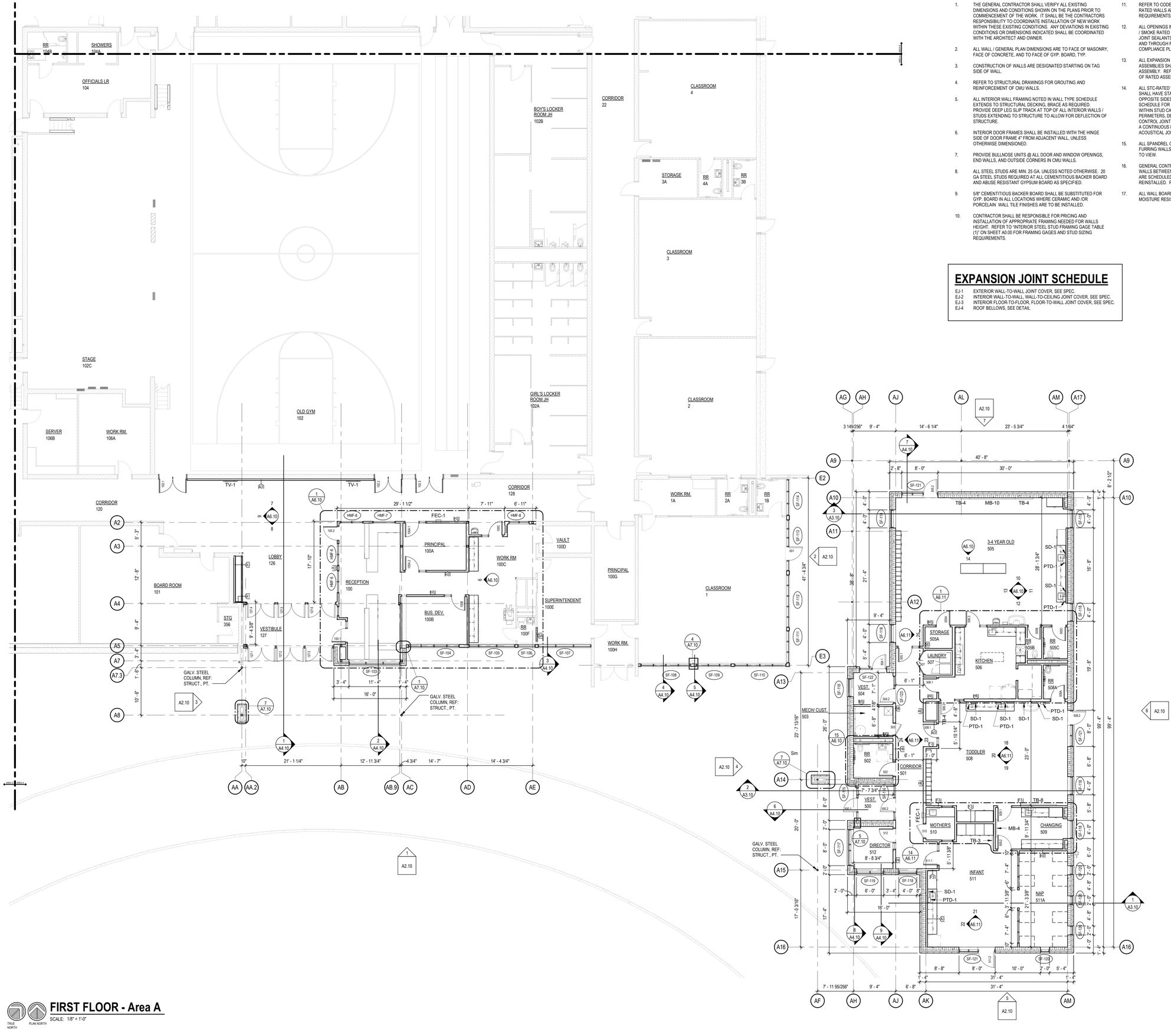
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Roof Demolition Plan

A0.30

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GENERAL PLAN NOTES

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2. ALL WALL / GENERAL PLAN DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, AND TO FACE OF GYP. BOARD, TYP.
3. CONSTRUCTION OF WALLS ARE DESIGNATED STARTING ON TAG SIDE OF WALL.
4. REFER TO STRUCTURAL DRAWINGS FOR GROUTING AND REINFORCEMENT OF CMU WALLS.
5. ALL INTERIOR WALL FRAMING NOTED IN WALL TYPE SCHEDULE EXTENDS TO STRUCTURAL DECKING, BRACE AS REQUIRED. PROVIDE DEEP LEG SLIP TRACK AT TOP OF ALL INTERIOR WALLS / STUDS EXTENDING TO STRUCTURE TO ALLOW FOR DEFLECTION OF STRUCTURE.
6. INTERIOR DOOR FRAMES SHALL BE INSTALLED WITH THE HINGE SIDE OF DOOR FRAME 4" FROM ADJACENT WALL, UNLESS OTHERWISE DIMENSIONED.
7. PROVIDE BULLNOSE UNITS @ ALL DOOR AND WINDOW OPENINGS, END WALLS, AND OUTSIDE CORNERS IN CMU WALLS.
8. ALL STEEL STUDS ARE MIN. 25 GA. UNLESS NOTED OTHERWISE. 20 GA STEEL STUDS REQUIRED AT ALL CEMENTITIOUS BACKER BOARD AND ABUSE RESISTANT GYPSUM BOARD AS SPECIFIED.
9. 5/8" CEMENTITIOUS BACKER BOARD SHALL BE SUBSTITUTED FOR GYP. BOARD IN ALL LOCATIONS WHERE CERAMIC AND /OR PORCELAIN WALL TILE FINISHES ARE TO BE INSTALLED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PRICING AND INSTALLATION OF APPROPRIATE FRAMING NEEDED FOR WALLS HEIGHT. REFER TO "INTERIOR STEEL STUD FRAMING GAGE TABLE (1)" ON SHEET A0.00 FOR FRAMING GAGES AND STUD SIZING REQUIREMENTS.
11. REFER TO CODE COMPLIANCE PLANS FOR LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATION WALL LOCATIONS AND REQUIREMENTS.
12. ALL OPENINGS IN RATED ASSEMBLIES SHALL BE SEALED WITH FIRE / SMOKE RATED MATERIALS AND ASSEMBLIES. INSTALL RATED JOINT SEALANTS AT BOTH FACES OF PARTITIONS, AT PERIMETERS, AND THROUGH FIRE RATED ASSEMBLIES. REFERENCE CODE COMPLIANCE PLANS FOR LOCATION OF RATED ASSEMBLIES.
13. ALL EXPANSION JOINT COVERS WITH CONNECTION TO RATED ASSEMBLIES SHALL MEET THE SAME REQUIRED RATING AS THE ASSEMBLY. REFERENCE CODE COMPLIANCE PLANS FOR LOCATION OF RATED ASSEMBLIES.
14. ALL STC-RATED WALL ASSEMBLIES AND PARTITIONS INDICATED SHALL HAVE STAGGERED SHEATHING AND GYP. BOARD JOINTS ON OPPOSITE SIDES OF ASSEMBLIES. REFERENCE WALL TYPE SCHEDULE FOR SOUND ATTENUATION INSULATION REQUIRED WITHIN STUD CAVITIES. SEAL ASSEMBLIES AT CONSTRUCTION PERIMETERS, DECKING MATERIAL (TOP & BOTTOM), BEHIND CONTROL JOINTS, AND AT ALL OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL JOINT SEALANT. INSTALL ACOUSTICAL JOINT SEALANTS AT BOTH FACES OF ASSEMBLIES
15. ALL SPANDREL GLAZING SHALL HAVE METAL STUD AND GPDW FURRING WALLS AT INTERIOR SIDE OF GLAZING WHERE EXPOSED TO VIEW.
16. GENERAL CONTRACTOR SHALL COORDINATE REPAINTING OF WALLS BETWEEN SUBCONTRACTORS AFTER EXISTING FIXTURES ARE SCHEDULED TO BE REMOVED AND PRIOR TO FIXTURES BEING REINSTALLED. REFER TO ELECTRICAL & MECHANICAL PLANS.
17. ALL WALL BOARD IN MECHANICAL ROOMS SHALL BE MOLD & MOISTURE RESISTANT DRYWALL.

EXPANSION JOINT SCHEDULE

EJ-1	EXTERIOR WALL-TO-WALL JOINT COVER, SEE SPEC.
EJ-2	INTERIOR WALL-TO-WALL, WALL-TO-CEILING JOINT COVER, SEE SPEC.
EJ-3	INTERIOR FLOOR-TO-FLOOR, FLOOR-TO-WALL JOINT COVER, SEE SPEC.
EJ-4	ROOF BELLOWS, SEE DETAIL

FIRST FLOOR - Area A

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

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SHEET HISTORY:

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A

Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

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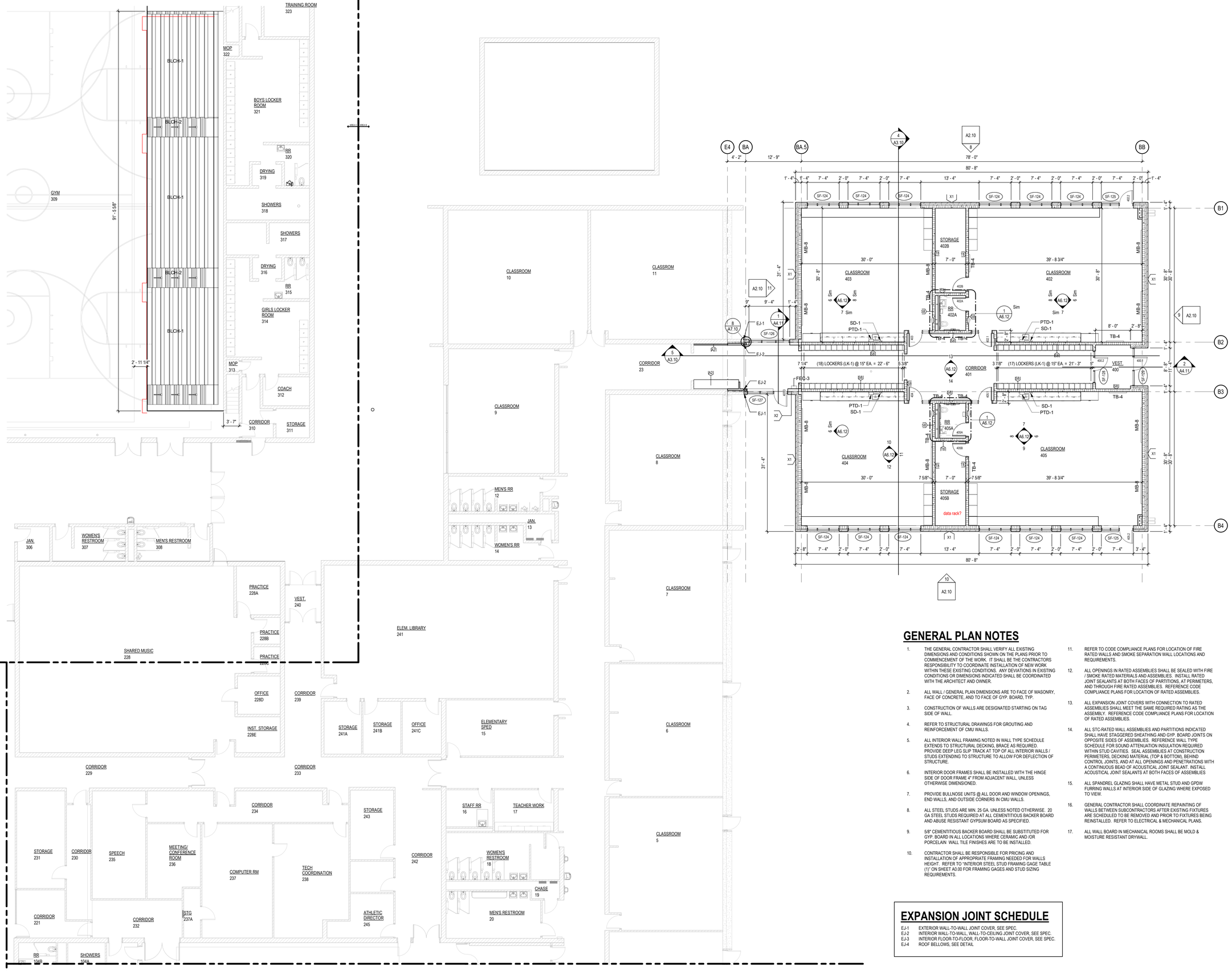
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First Floor Plan - Area A

A1.11

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EJ-2	INTERIOR WALL-TO-WALL, WALL-TO-CEILING JOINT COVER, SEE SPEC.
EJ-3	INTERIOR FLOOR-TO-FLOOR, FLOOR-TO-WALL JOINT COVER, SEE SPEC.
EJ-4	ROOF BELLOWS, SEE DETAIL

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FIRST FLOOR - Area B

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

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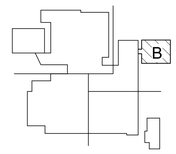
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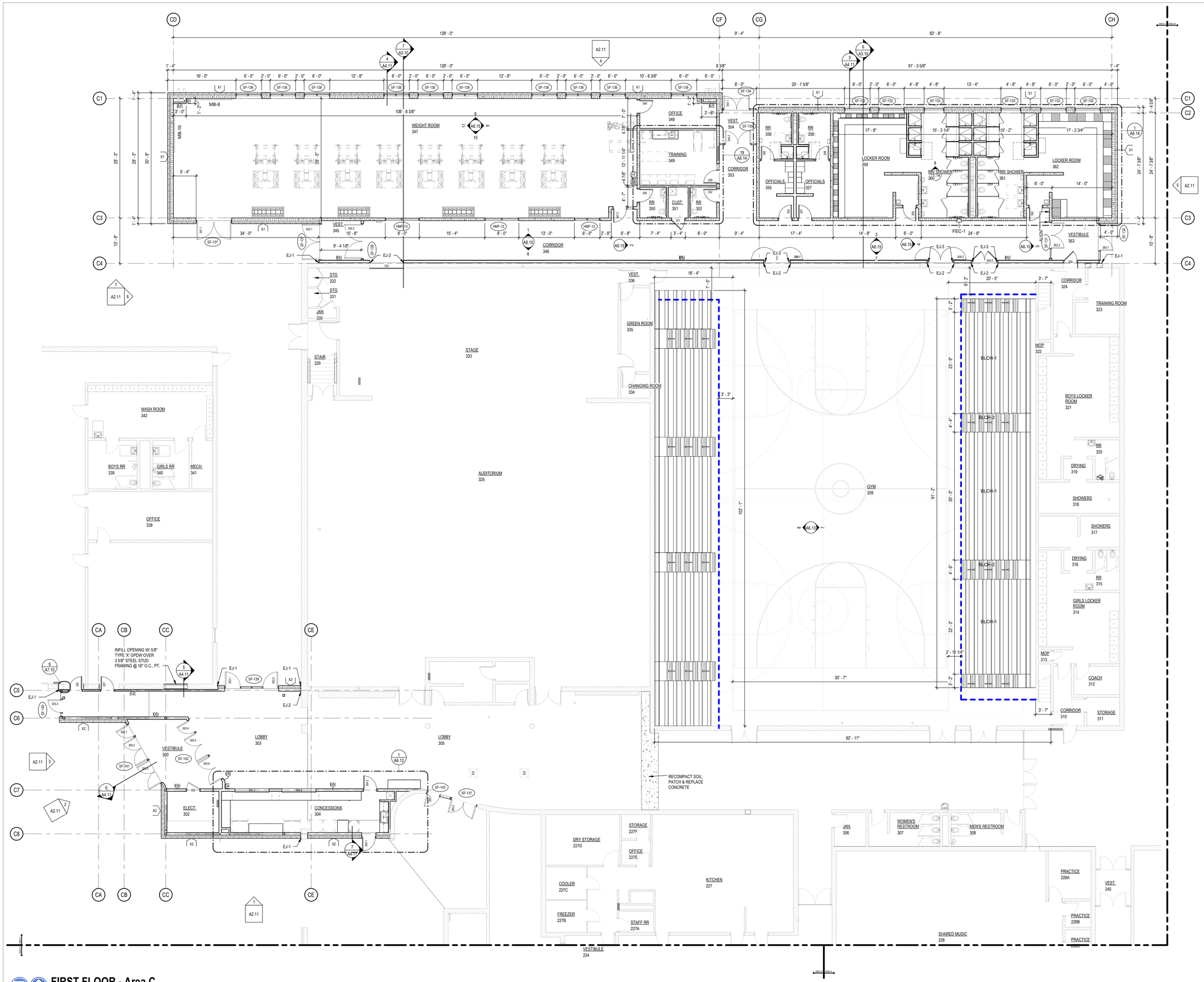
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First Floor Plan - Area B

A1.12



FIRST FLOOR - Area C

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

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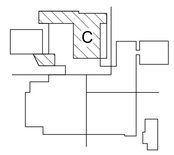
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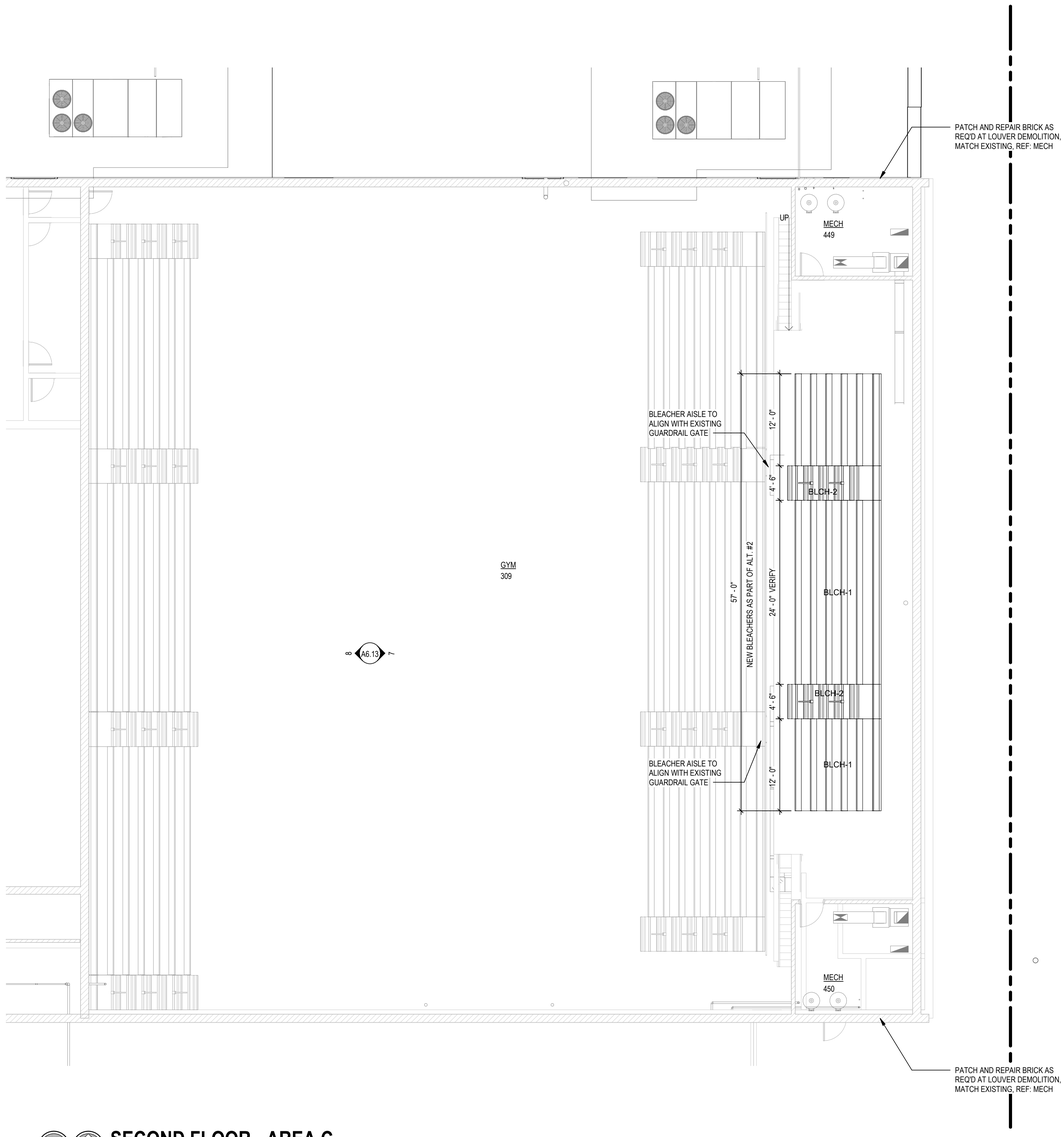
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First Floor Plan - Area C

A1.13



SECOND FLOOR - AREA C

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

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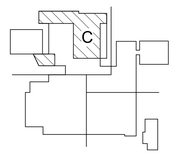
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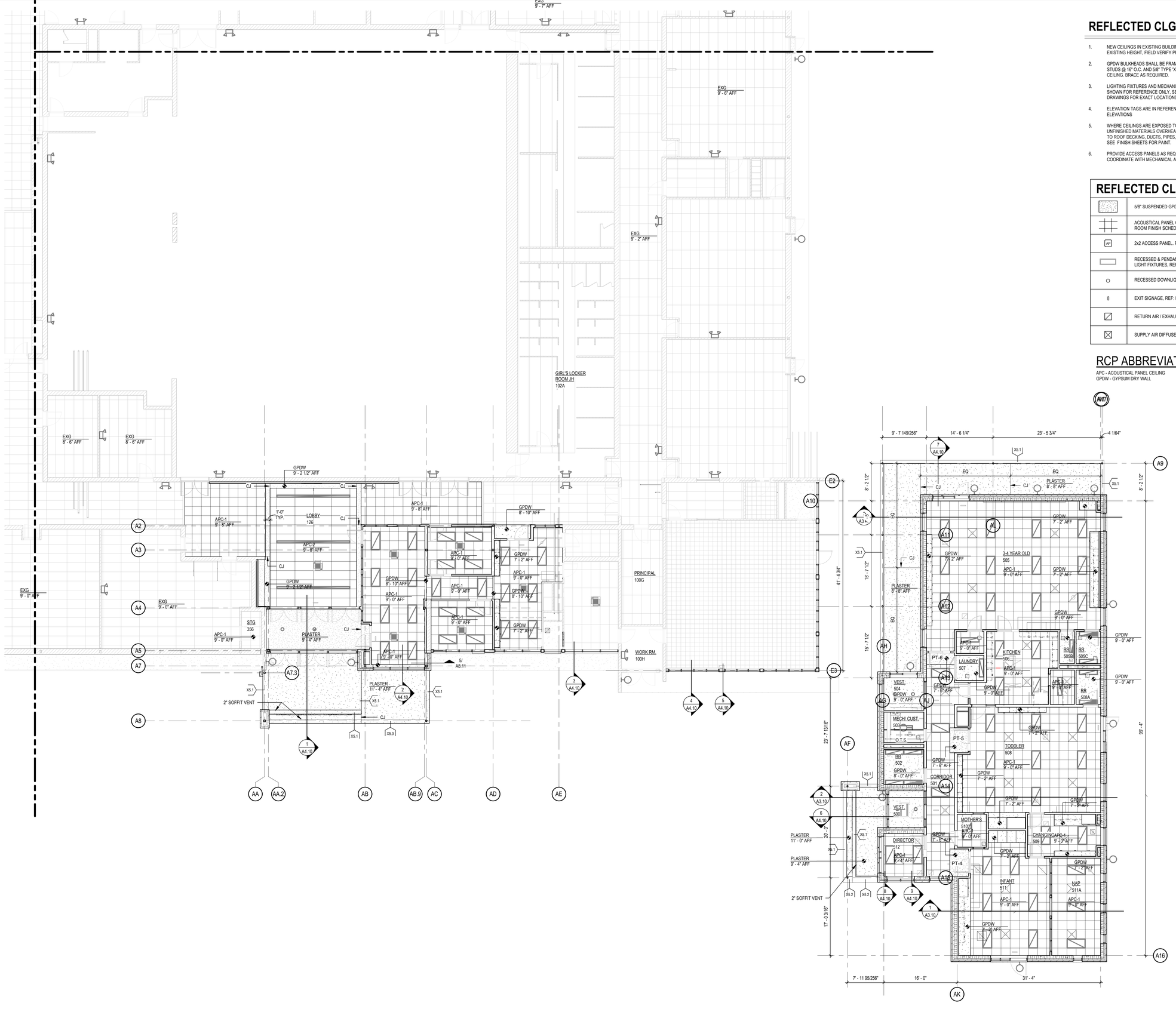
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Second Floor Plan- Area C

A1.14

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REFLECTED CLG GENERAL NOTES:

1. NEW CEILINGS IN EXISTING BUILDING SHALL BE INSTALLED AT EXISTING HEIGHT, FIELD VERIFY PRIOR TO DEMOLITION.
2. GPDW BULKHEADS SHALL BE FRAMED WITH 25 GAUGE 3 5/8" STEEL STUDS @ 16" O.C. AND 5/8" TYPE 'X' GPDW TO 6" ABOVE FINISH CEILING. BRACE AS REQUIRED.
3. LIGHTING FIXTURES AND MECHANICAL DIFFUSERS / GRILLES ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS
4. ELEVATION TAGS ARE IN REFERENCE TO ARCHITECTURAL ELEVATIONS
5. WHERE CEILINGS ARE EXPOSED TO STRUCTURE ABOVE, PAINT ALL UNFINISHED MATERIALS OVERHEAD INCLUDING, BUT NOT LIMITED TO ROOF DECKING, DUCTS, PIPES, CONDUITS & JUNCTION BOXES; SEE FINISH SHEETS FOR PAINT.
6. PROVIDE ACCESS PANELS AS REQUIRED IN HARD LID CEILINGS. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

REFLECTED CLG LEGEND

	5/8" SUSPENDED GPDW CEILING SYSTEM
	ACOUSTICAL PANEL CEILING SYSTEM. SEE ROOM FINISH SCHEDULE & RCP FOR TYPE.
AP	2x2 ACCESS PANEL. REF: SPEC.
	RECESSED & PENDANT MOUNTED LIGHT FIXTURES, REF: ELECTRICAL
	RECESSED DOWNLIGHT, REF: ELECTRICAL
	EXIT SIGNAGE, REF: ELECTRICAL
	RETURN AIR / EXHAUST AIR GRILLE, REF: MECHANICAL
	SUPPLY AIR DIFFUSER, REF: MECHANICAL.

RCP ABBREVIATIONS

APC - ACOUSTICAL PANEL CEILING
GPDW - GYPSUM DRY WALL

FIRST FLOOR - Area A

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

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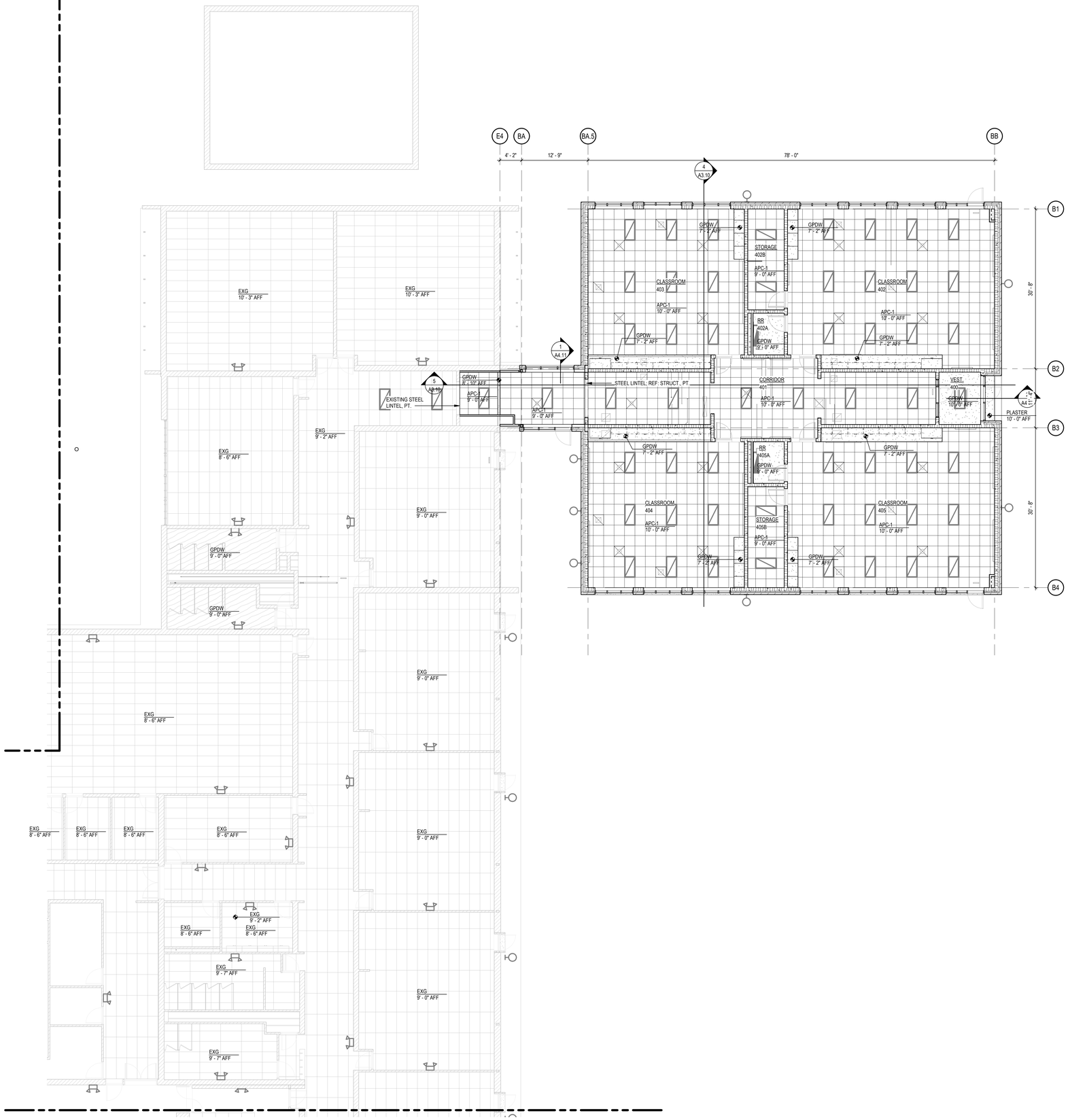
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First Floor Reflected Ceiling Plan - Area A

A1.21

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FIRST FLOOR - Area B

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

TRUE NORTH

PLAN NORTH

REFLECTED CLG GENERAL NOTES:

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2. GPDW BULKHEADS SHALL BE FRAMED WITH 25 GAUGE 3 5/8" STEEL STUDS @ 16" O.C. AND 5/8" TYPE 'X' GPDW TO 6" ABOVE FINISH CEILING. BRACE AS REQUIRED.
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	RECESSED DOWNLIGHT, REF: ELECTRICAL
	EXIT SIGNAGE, REF: ELECTRICAL
	RETURN AIR / EXHAUST AIR GRILLE, REF: MECHANICAL
	SUPPLY AIR DIFFUSER, REF: MECHANICAL.

RCP ABBREVIATIONS

APC - ACOUSTICAL PANEL CEILING
GPDW - GYPSUM DRY WALL

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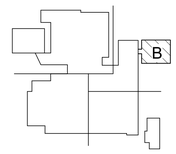
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SHEET HISTORY:

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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

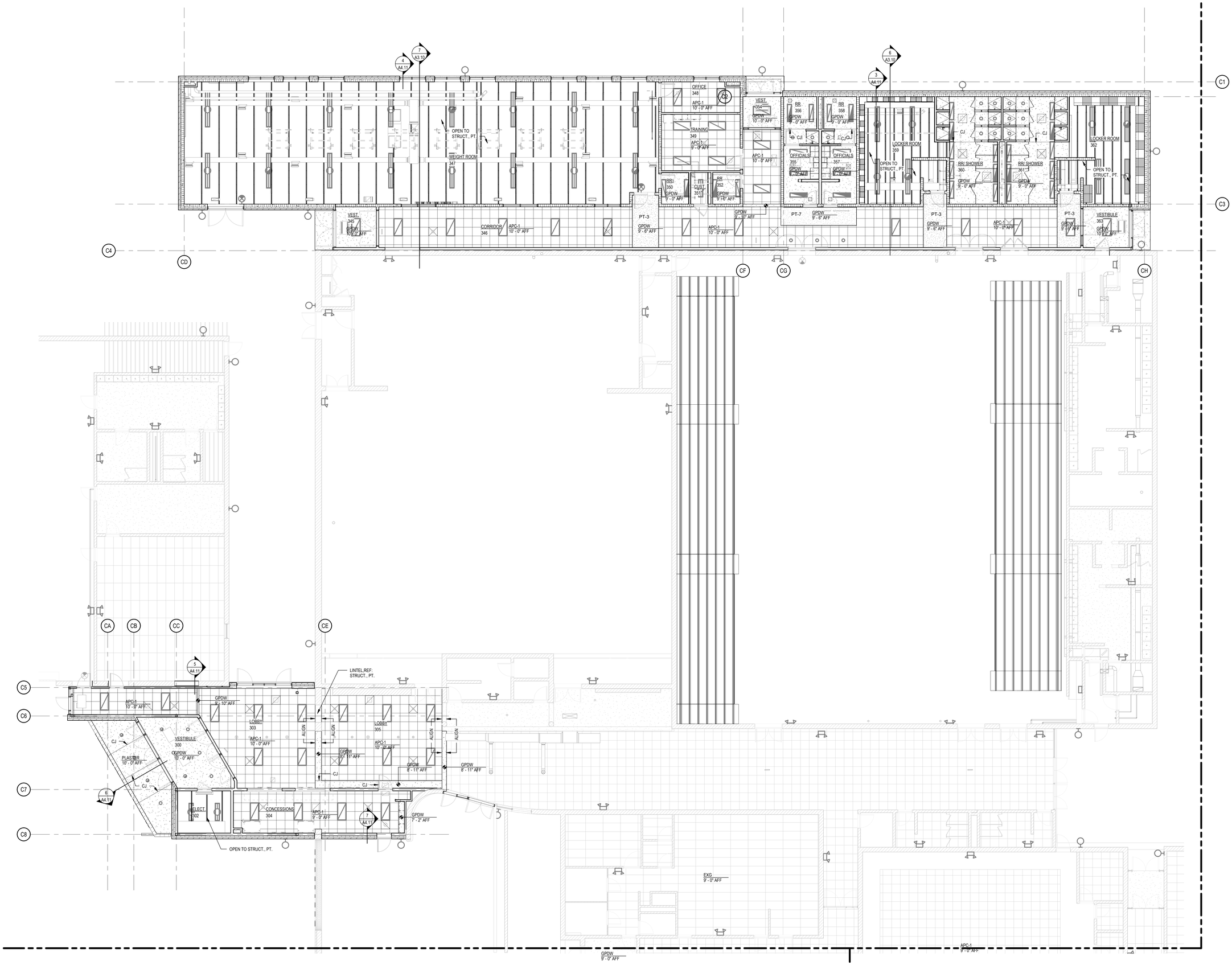
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First Floor Reflected Ceiling Plan - Area B

A1.22

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TRUE NORTH PLAN NORTH

FIRST FLOOR - Area C

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

Plot Time Stamp: 5/8/2023 12:25:11 PM
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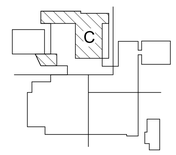
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7 - #		**SHEET HISTORY:**
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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

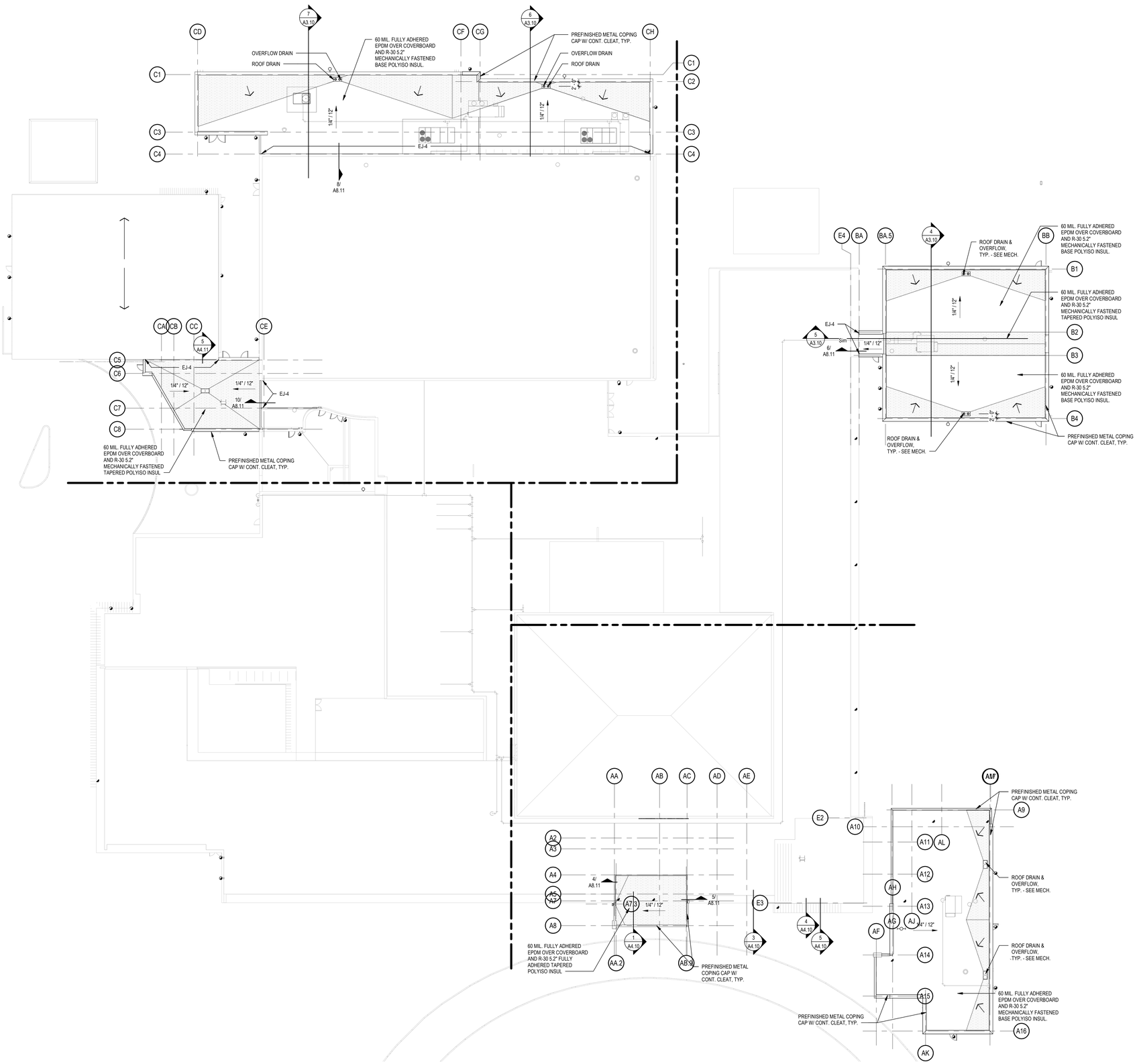
1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

-

First Floor Reflected Ceiling Plan - Area C

A1.23



ROOF PLAN GENERAL NOTES:

1. ALL ROOFING SHALL BE INSTALLED IN ACCORDANCE WITH - THE NRCA ROOFING MANUAL: MEMBRANE ROOF SYSTEMS - 2007.
2. ROOFING SYSTEM SHALL BE A ***60mil FULLY ADHERED EPDM ROOFING SYSTEM OVER MECHANICALLY FASTENED/ FULLY ADHERED POLYISOCYANURATE ROOF INSULATION. SYSTEM SHOULD QUALIFY FOR A MINIMUM 20 YEAR WARRANTY.***
3. ROOF INSULATION THICKNESS SHALL BE PROVIDED AS NOTED.
4. THE ROOF SLOPE SHALL BE 1/4" PER FOOT UNLESS INDICATED OTHERWISE OR AS REQUIRED FOR CRICKETS AND SADDLES. SLOPE DIRECTION IS DOWN AS INDICATED, SLOPE IS NOTED IN DISTANCE PER FOOT.
5. PROVIDE CHAMFERS, CRICKETS AND SADDLES AS REQUIRED @ INSULATION HEIGHT TRANSITIONS & OBSTRUCTIONS TO DRAINAGE.
6. VERIFY ALL MECHANICAL PENETRATIONS WITH MECHANICAL AND FOOD SERVICE DRAWINGS AND MECHANICAL CONTRACTOR.
7. PROVIDE ROOF WALKWAY PADS MIN 30" WIDE IN WALK-WAY AREAS TO AND AROUND MECHANICAL EQUIPMENT, & @ TOP & BOTTOM OF LADDER LOCATIONS, & DOWNSPOUT LOCATIONS AS PER THE ROOFING MANUFACTURER'S ROOFING WARRANTY REQUIREMENTS.
8. INSTALL ROOF DRAINS IN ACCORDANCE WITH NRCA ROOFING MANUAL. INSTALL NEW ACCESSORIES AS REQUIRED PER ORIGINAL MANUFACTURER.
9. INSTALL THROUGH WALL SCUPPERS, CONDUCTOR HEADS AND DOWNSPOUTS IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) AND NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING MANUAL.
10. INSTALL MECHANICAL EQUIPMENT WITH 8" MINIMUM TO TOP OF CURB FROM ADJACENT NEW ROOF MEMBRANE & PROVIDE 2-PIECE FLASHING. ADJUST CURBS AS NECESSARY TO MAINTAIN MINIMUM FLASHING REQUIREMENTS.

TRUE NORTH PLAN NORTH

ROOF PLAN

SCALE: 1" = 20'-0"

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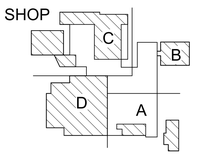
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1 / 2 / 3	**SHEET HISTORY:**	
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Key Plan

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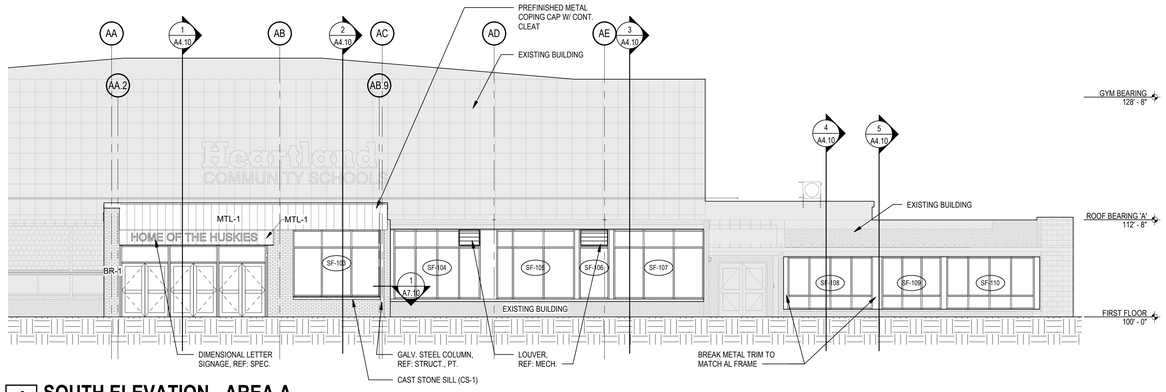
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Roof Plan

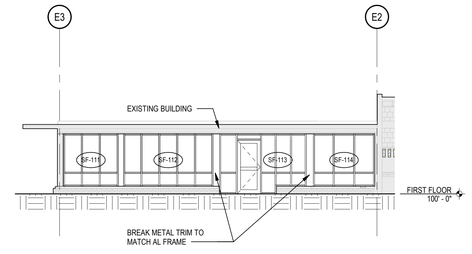
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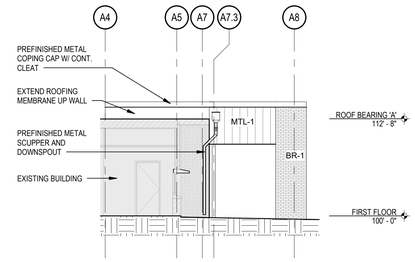
1 SOUTH ELEVATION - AREA A

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



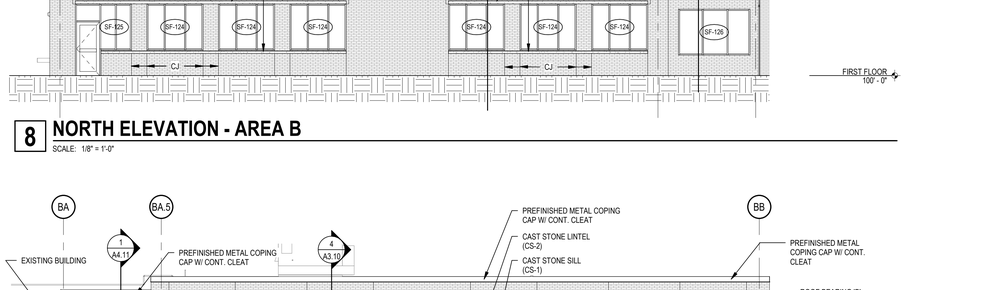
2 EAST ELEVATION - AREA A

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



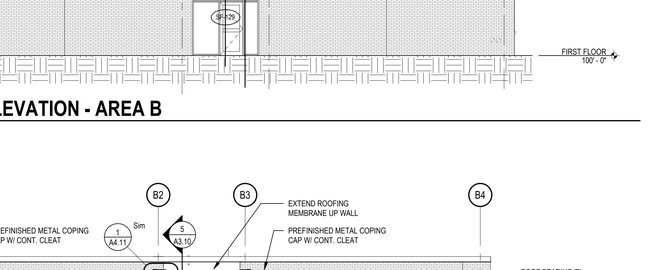
3 WEST ELEVATION - AREA A

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



4 DAYCARE WEST

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



5 DAYCARE SOUTH

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

6 DAYCARE - EAST

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

7 DAYCARE - NORTH

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

8 NORTH ELEVATION - AREA B

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

9 EAST ELEVATION - AREA B

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

10 SOUTH ELEVATION - AREA B

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

11 WEST ELEVATION - AREA B

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

EXTERIOR MATERIALS KEY

BRICK 1	STANDARD BRICK VENEER; RUNNING BOND PATTERN; REF. SPEC.
BRICK 2	ACCENT BRICK VENEER; RUNNING BOND PATTERN; REF. SPEC.
METAL PANEL	PREFINISHED FORMED METAL WALL PANELS. SEE SPEC
EXISTING BUILDING	

NOTE: MATERIALS LISTED ARE BASIS OF DESIGN, REFER SPEC. FOR APPROVED ALTERNATES

12 PRECAST PROFILES

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

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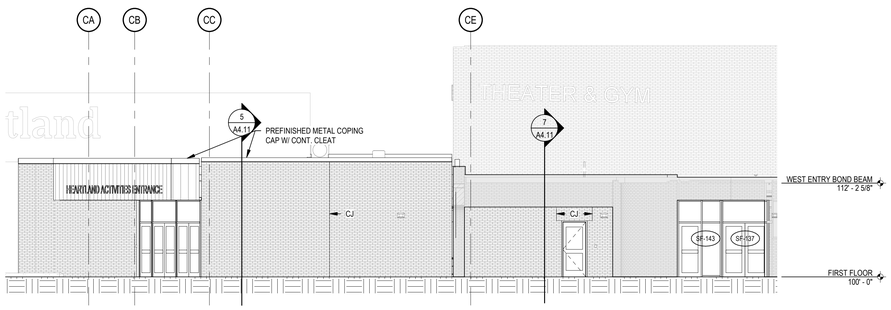
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Exterior Elevations

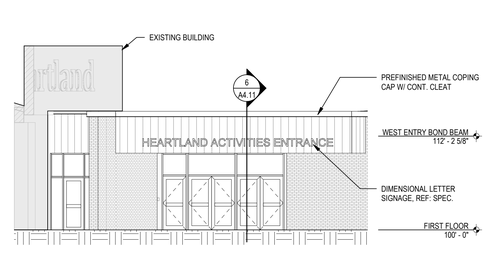
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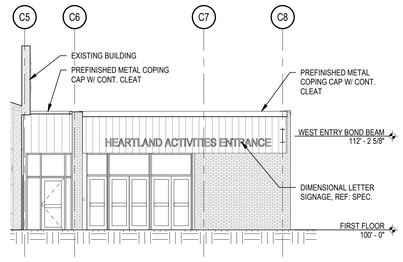
1 SOUTH ELEVATION - AREA C

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



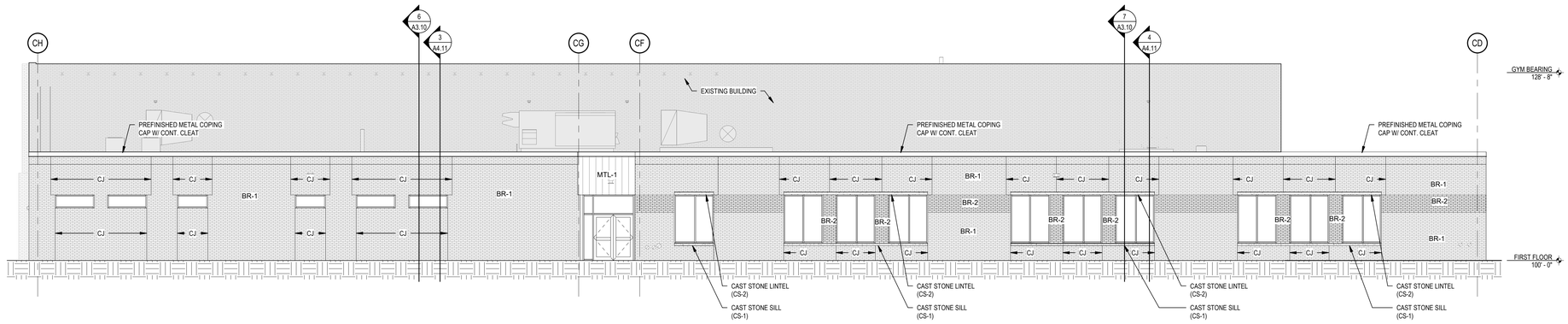
2 SOUTHWEST ELEVATION - AREA C

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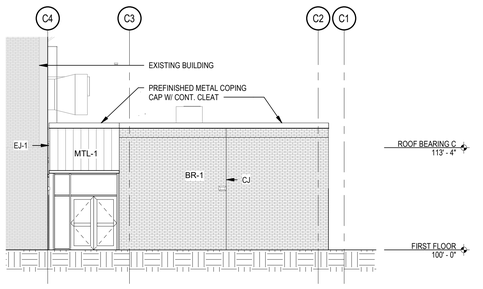
3 WEST ELEVATION - AREA C

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



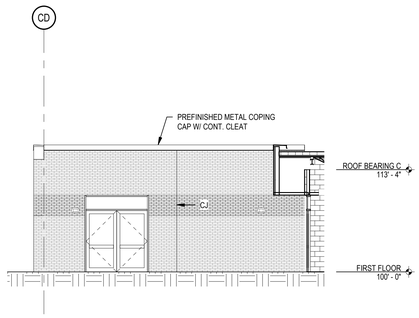
4 NORTH ELEVATION - AREA C

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



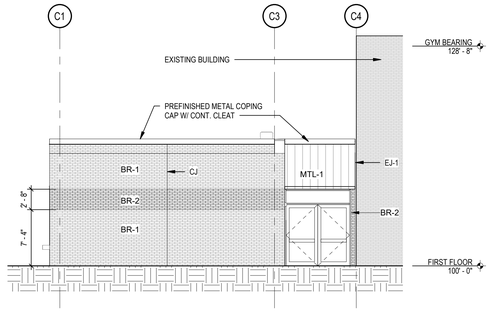
5 EAST ELEVATION - AREA C

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



7 SOUTH ELEVATION - WEIGHT ROOM

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



6 WEST ELEVATION - WEIGHT ROOM

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

EXTERIOR MATERIALS KEY

	BRICK 1	STANDARD BRICK VENEER; RUNNING BOND PATTERN; REF. SPEC.
	BRICK 2	ACCENT BRICK VENEER; RUNNING BOND PATTERN; REF. SPEC.
	METAL PANEL	PREFINISHED FORMED METAL WALL PANELS. SEE SPEC
	EXISTING BUILDING	

NOTE: MATERIALS LISTED ARE BASIS OF DESIGN, REFER SPEC. FOR APPROVED ALTERNATES

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Construction Documents

Heartland Community Schools Addition & Renovation

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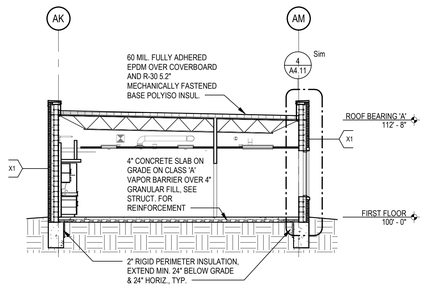
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Exterior Elevations

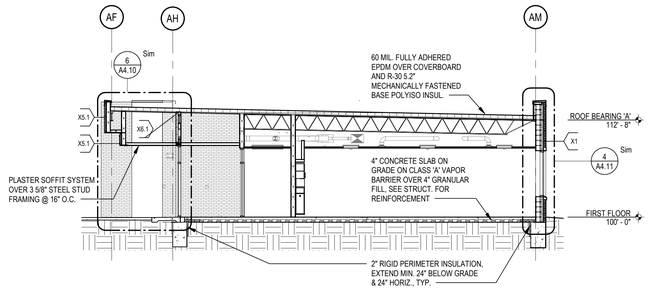
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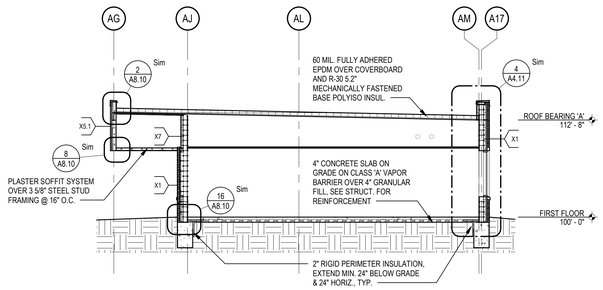
1 DAYCARE SECTION 1

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



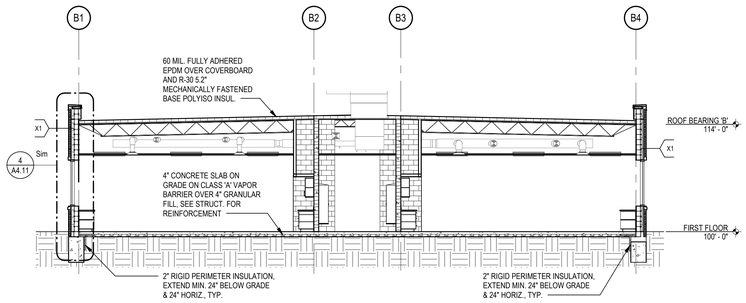
2 DAYCARE SECTION 2

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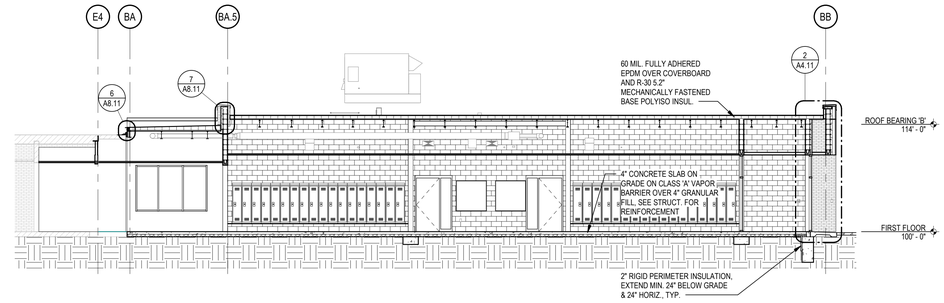
3 DAYCARE SECTION 3

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



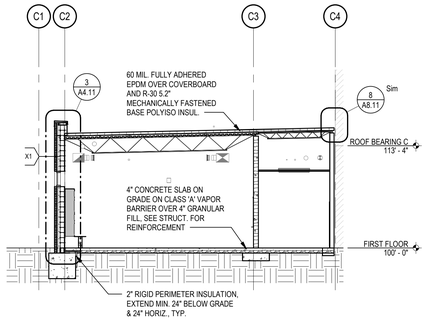
4 BS - CLASSROOMS

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



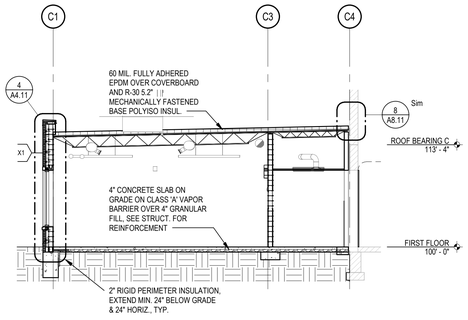
5 BS - CLASSROOM CORRIDOR

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



6 BS - LOCKER RM

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



7 BS - WEIGHT RM

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

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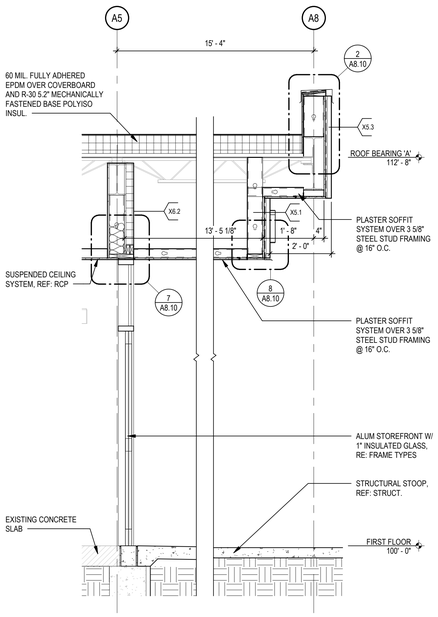
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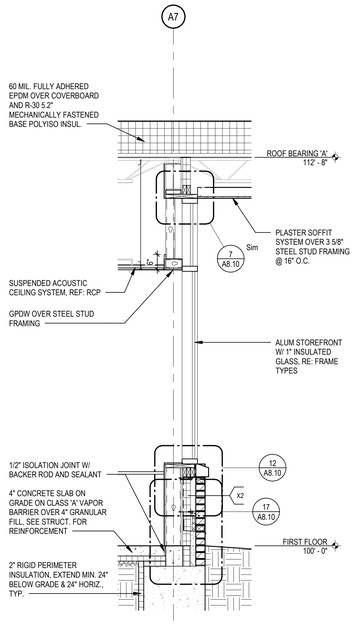
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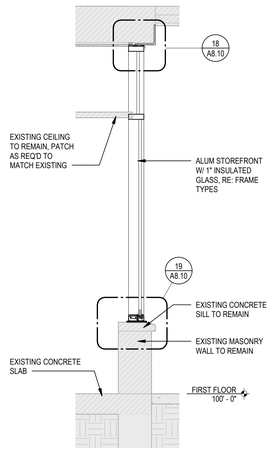
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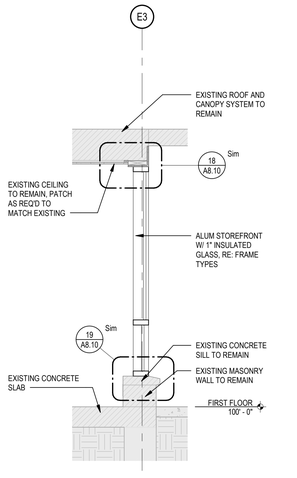
1 WALL SECTION
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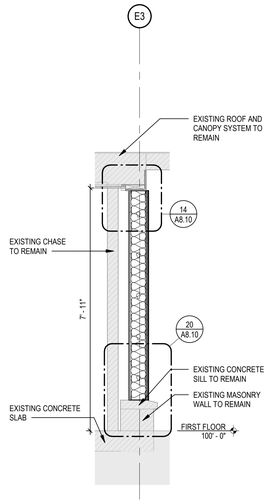
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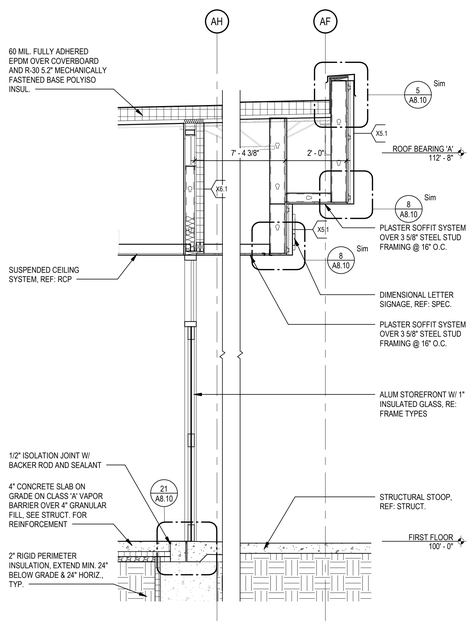
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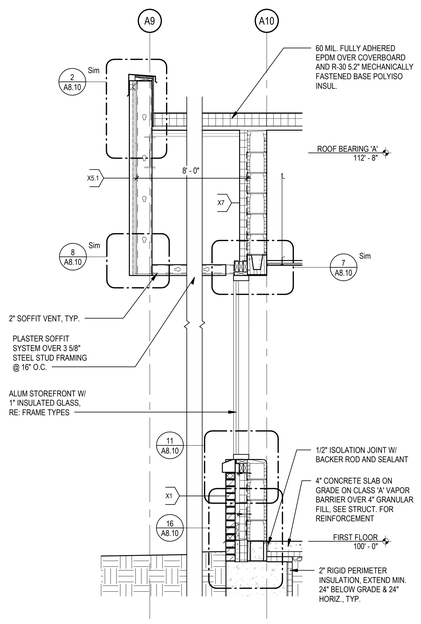
4 WALL SECTION
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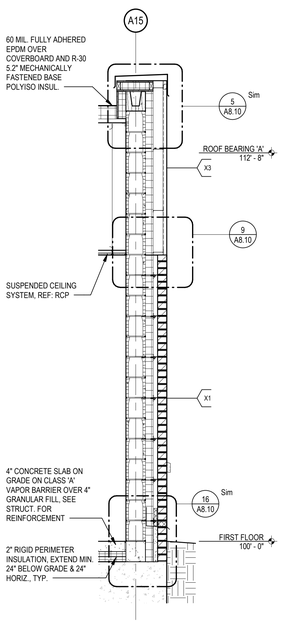
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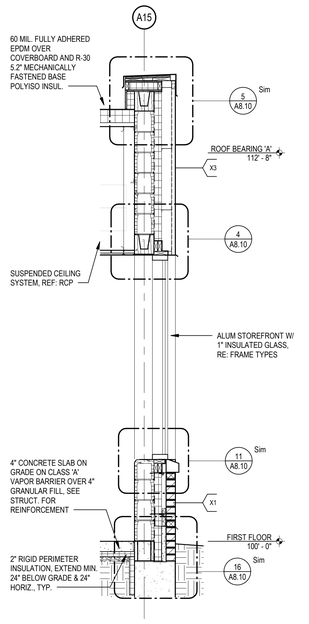
6 WALL SECTION
SCALE: 1/2" = 1'-0"



7 WALL SECTION
SCALE: 1/2" = 1'-0"



8 WALL SECTION
SCALE: 1/2" = 1'-0"



9 WALL SECTION
SCALE: 1/2" = 1'-0"

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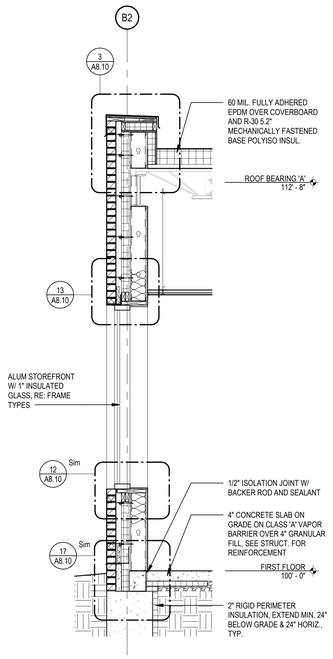
CE No.: 380-001-21

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Wall Sections

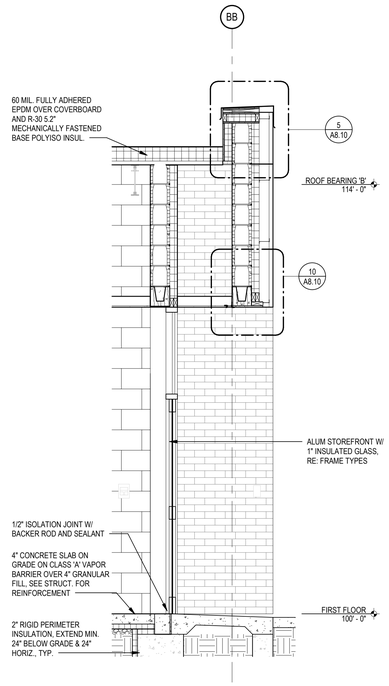
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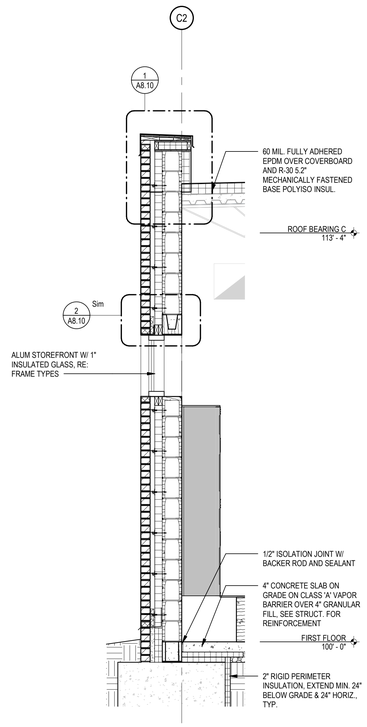
1 WALL SECTION

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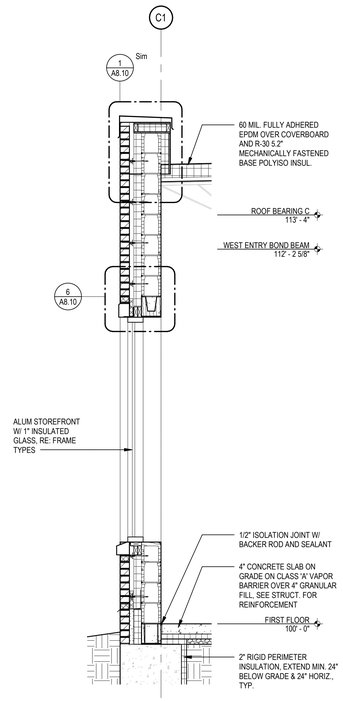
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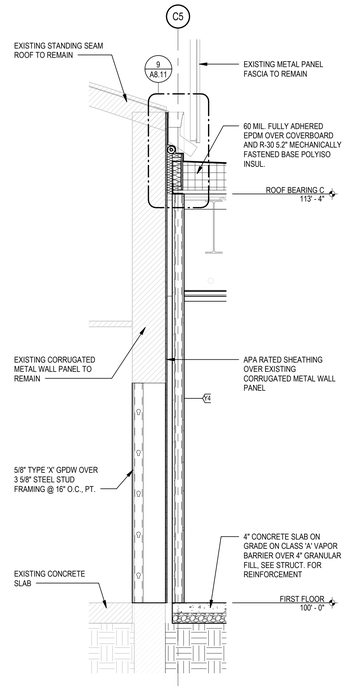
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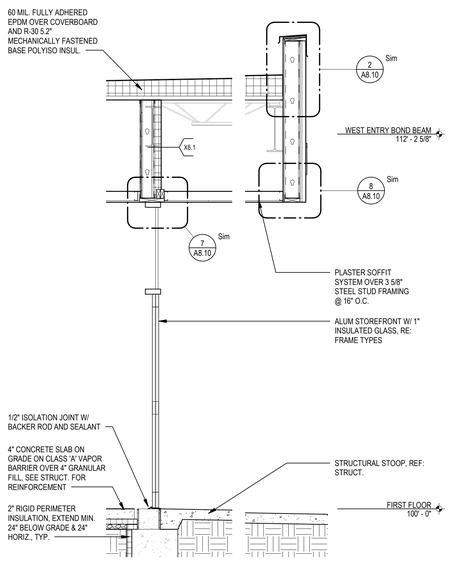
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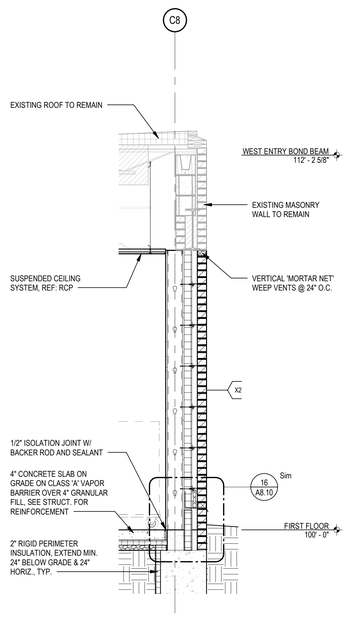
5 WALL SECTION

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



6 WALL SECTION

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



7 WALL SECTION

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

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COA No. CA0029AE

SHEET HISTORY:

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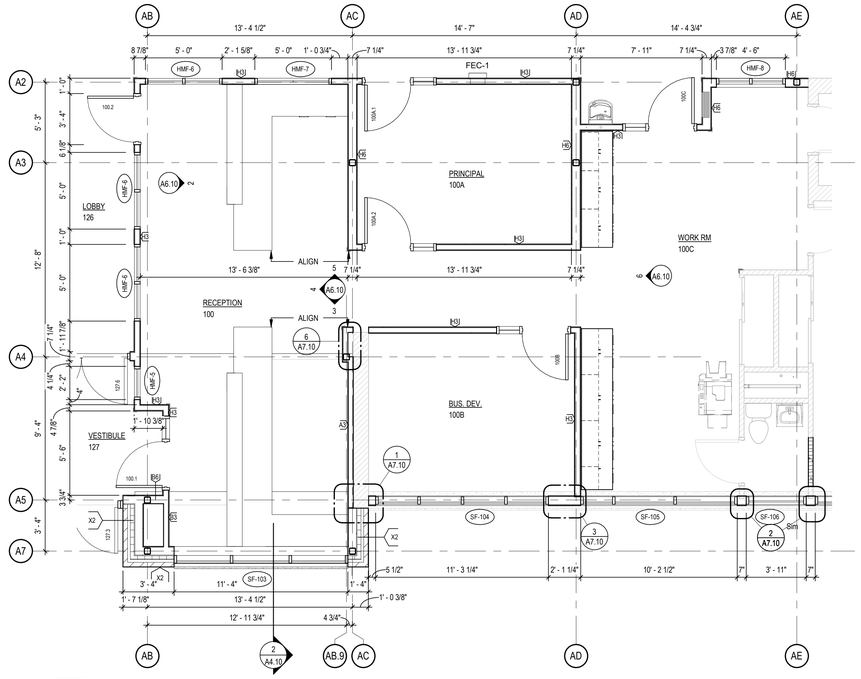
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Wall Sections

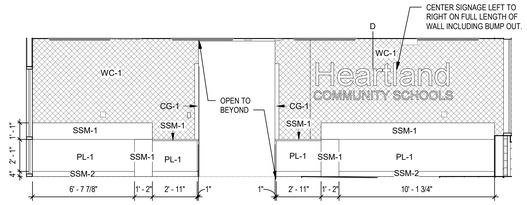
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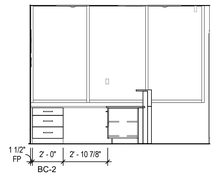
1 EP_AREA A - ADMIN

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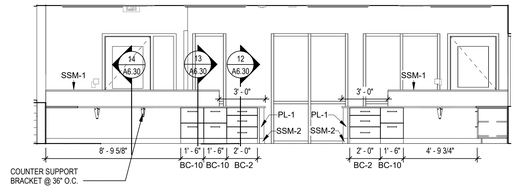
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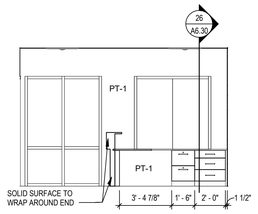
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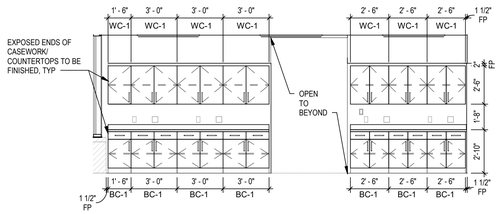
4 RECEPTION DESK - W

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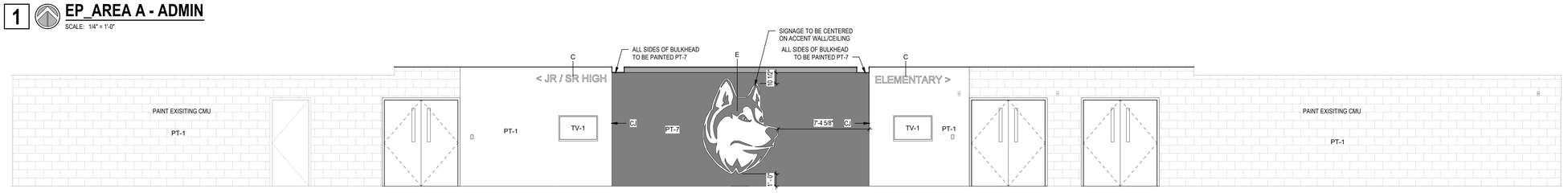
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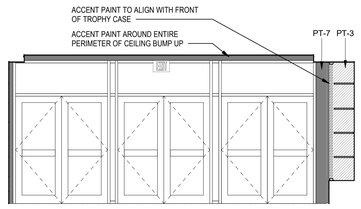
6 WORK RM 100C - W

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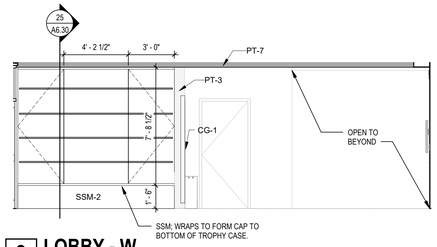
7 LOBBY - N

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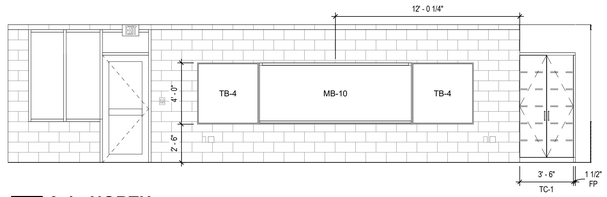
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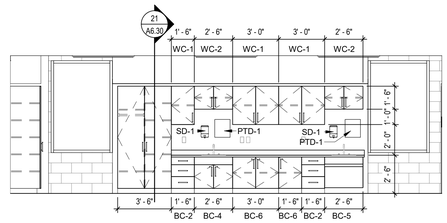
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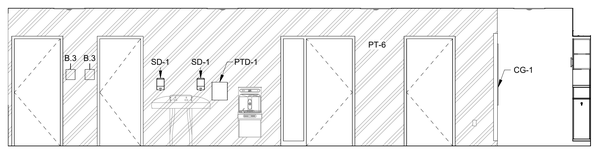
10 3-4 - NORTH

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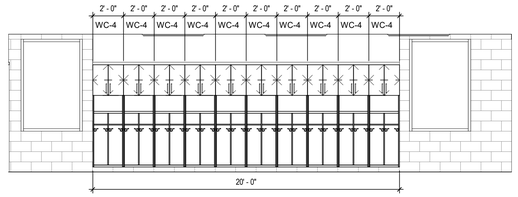
11 3-4 - EAST

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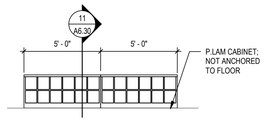
12 3-4 - SOUTH

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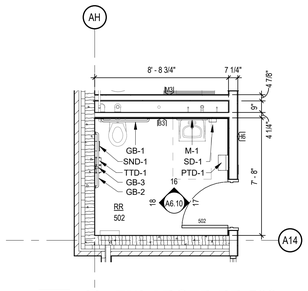
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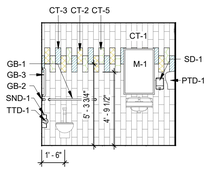
14 SHELVING

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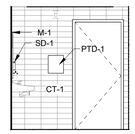
15 ENLARGED RR 502

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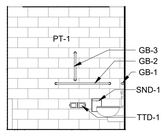
16 RR 502 - NORTH

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



17 RR 502 - EAST

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



18 RR 502 - WEST

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

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Architecture Contact: Tim Ripp
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Lincoln, NE 68508
COA No. CA0029AE

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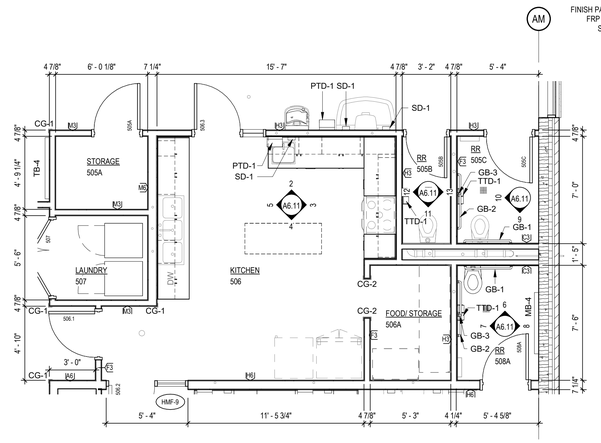
CE No.: 380-001-21

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Area A - Enlarged Plans & Elevations

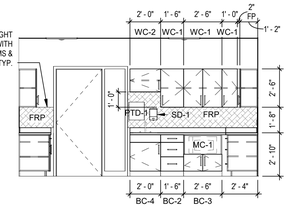
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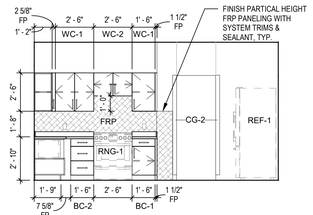
1 EP_AREA A - KITCHEN

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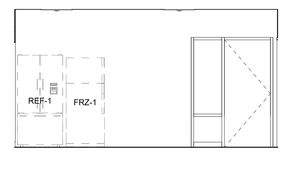
2 KITCHEN- NORTH

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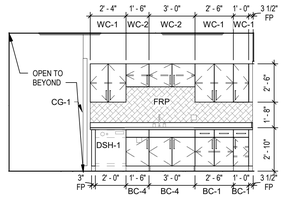
3 KITCHEN - EAST

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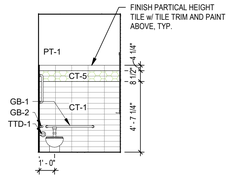
4 KITCHEN - SOUTH

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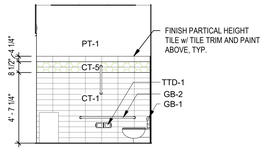
5 KITCHEN - WEST

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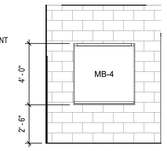
6 TODDLER RR - NORTH

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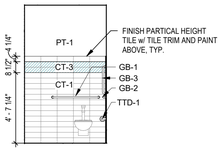
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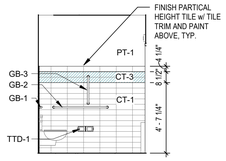
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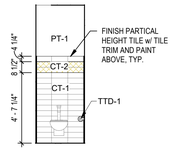
9 3-4 ADA - SOUTH

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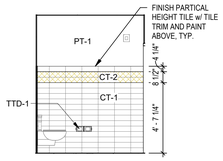
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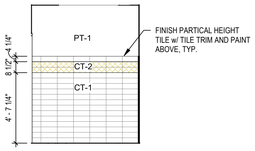
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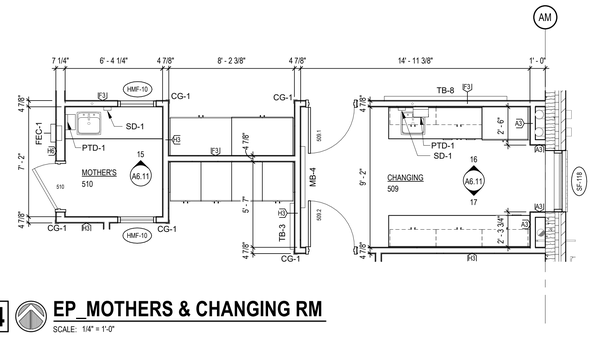
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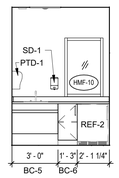
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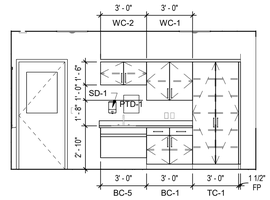
14 EP_MOTHERS & CHANGING RM

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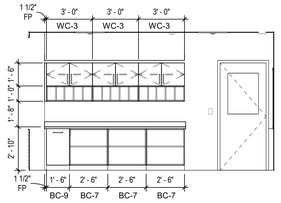
15 MOTHER'S - NORTH

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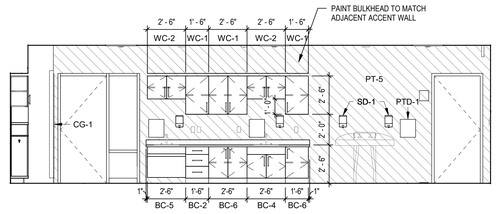
16 CHANGING - NORTH

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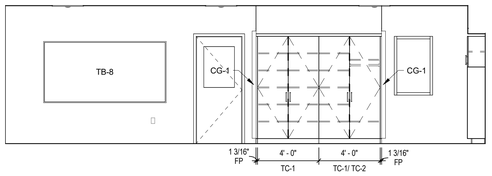
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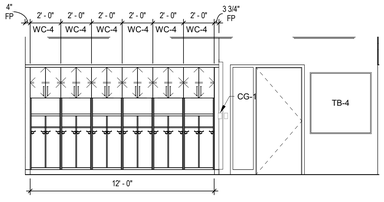
18 TODDLER - NORTH

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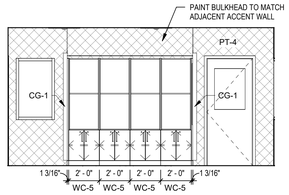
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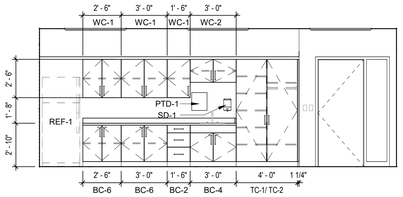
20 TODDLER - WEST

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



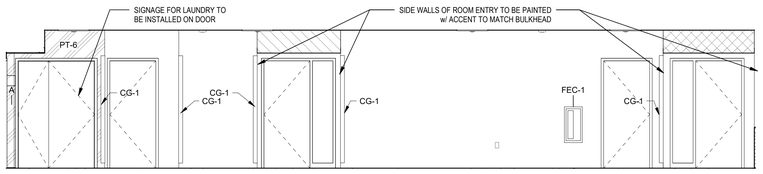
21 INFANT - NORTH

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



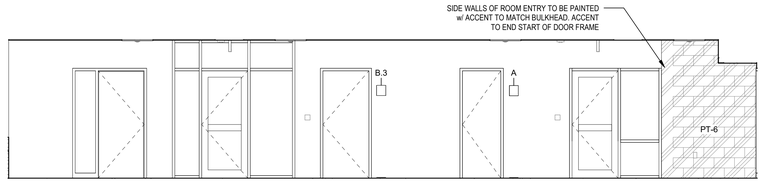
22 INFANT - WEST

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



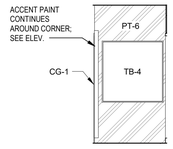
23 CORRIDOR 501 - EAST

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



24 CORRIDOR 501 - WEST

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



25 3-4 - EAST ENTRY

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

FIXTURE SCHEDULE

DESCRIPTION	TYPE	MOUNTING LOCATION
WATER COOLER	STANDARD	38"-43" A.F.F. TO SPOUT
	ADA*	36" MAX. A.F.F. TO SPOUT
TOILET	STANDARD	15" A.F.F. TO TOP OF SEAT
	ADA*	17" A.F.F. TO TOP OF SEAT
	CHILD (CHD)	REF: SHEET G0.21 FOR REQUIREMENT BY AGE
URINAL	STANDARD	24" A.F.F. TO RIM
	ADA*	15" A.F.F. TO RIM, VERIFY W/ MFR.
SINK	STANDARD	34" A.F.F. TO RIM
	ADA*	34" A.F.F. TO RIM
	CHILD (CHD)	30" A.F.F. TO RIM (UNO)
MIRROR	ABOVE SINK	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
	WITHOUT SINK	35" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
GRAB BAR	BACK BAR*	6" TO WALL - 35" A.F.F. TO TOP OF BAR
	SIDE BAR*	12" TO WALL - 35" A.F.F. TO TOP OF BAR
	VERTICAL BAR*	40" TO WALL - 40" A.F.F. TO BOTTOM OF BAR
	CHILD (CHD)	REF: SHEET G0.21 FOR REQUIREMENT BY AGE
TOILET TISSUE DISPENSER	VERIFY W/ MANUF.	REF: SHEET G0.21 FOR MOUNTING RANGE
PAPER TOWEL DISPENSER	VERIFY W/ MANUF.	REF: SHEET G0.21 FOR MOUNTING RANGE
SANITARY NAPKIN DISPOSAL	VERIFY W/ MANUF.	BELOW GRAB BAR - REF: SHEET G0.21 FOR MOUNTING RANGE
ELECTRIC HAND DRYER	VERIFY W/ MANUF.	34" A.F.F. TO TOP OF HAND DRYER
BABY CHANGING STATION	VERIFY W/ MANUF.	33" A.F.F. TO TOP OF BED WHEN OPENED.
CHILD SAFETY SEAT	VERIFY W/ MANUF.	14" A.F.F. TO BOTTOM OF SEAT

*TO COMPLY WITH 2010 ADA STANDARDS OF ACCESSIBLE DESIGN AND MFR. RECOMMENDATIONS.

TOILET ACCESSORY & EQUIPMENT SCHEDULE

ABBR.	ACCESSORY	MANUFACTURER	MODEL NUMBER	FURNISHED BY	INSTALLED BY
BLCH-1	TELESCOPING BLEACHER	Hussey Seating Company	SEE SPECS	CONTRACTOR	CONTRACTOR
BLCH-2	TELESCOPING BLEACHER AISLE	Hussey Seating Company	MAXAM	CONTRACTOR	CONTRACTOR
CH-1	CLOTHES HOOK	BOBRICK	B-2116	CONTRACTOR	CONTRACTOR
CRT-1	SHOWER CURTAIN ROD	BOBRICK	B-6047	CONTRACTOR	CONTRACTOR
FRZ-1	FREEZER	-	-	OWNER	OWNER
FRZ-2	FREEZER	-	-	OWNER	OWNER
GB-1	36" GRAB BAR	BOBRICK	B-5806.99x36	CONTRACTOR	CONTRACTOR
GB-2	48" GRAB BAR	BOBRICK	B-5806.99x48	CONTRACTOR	CONTRACTOR
GB-3	18" GRAB BAR - VERTICAL	BOBRICK	B-5806.99x18	CONTRACTOR	CONTRACTOR
GB-4	16" x 31" GRAB BAR - L SHAPED	BOBRICK	B-6861.99	CONTRACTOR	CONTRACTOR
LB-3	42"x20" ADA LOCKER ROOM BENCH	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-1	15"X15' SINGLE TIER LOCKER	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-2	15"x18"x60" ATHLETIC LOCKER - DOUBLE	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-3.1	15"x15"x60" ATHLETIC LOCKER - DOUBLE	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-3.2	24"x24"x60" ATHLETIC LOCKER - DOUBLE	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-4.1	24"x24"x60" ATHLETIC LOCKER - DOUBLE	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
LK-4.2	24"x24"x60" ATHLETIC LOCKER - DOUBLE	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
M-1	2'-0" W x 3'-0" H MIRROR	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
MB-4	4'x4' MARKER BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
MB-8	4'x8' MARKER BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
MB-10	5'X10' MARKER BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
MC-1	MICROWAVE	-	-	OWNER	OWNER
OVN-1	OVEN	-	-	OWNER	OWNER
PTD-1	PAPER TOWEL DISPENSER	-	-	OWNER	CONTRACTOR
REF-1	REFRIGERATOR	-	-	OWNER	OWNER
REF-2	UNDERCOUNTER REFRIGERATOR	-	-	OWNER	OWNER
REF-3	REFRIGERATOR	-	-	OWNER	OWNER
RNG-1	RANGE	-	-	OWNER	OWNER
SD-1	SOAP DISPENSER	-	-	OWNER	CONTRACTOR
SHS-1	ADA SHOWER SEAT	BOBRICK	B-5181	CONTRACTOR	CONTRACTOR
TB-3	3'X4' TACK BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
TB-4	4'x4' TACK BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
TB-8	8'X4' TACK BOARD	SEE SPECS	SEE SPECS	CONTRACTOR	CONTRACTOR
TBL-1	THERAPY TABLE	-	-	OWNER	OWNER
TBL-2	KITCHEN TABLE	-	-	OWNER	OWNER
WPC-1	WASTE RECEPTACLE	-	-	OWNER	OWNER

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Engineering Contact: TJ Schirmer
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Lincoln, Ne 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED	-	-

Construction Documents

Heartland Community Schools Addition & Renovation

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Henderson, NE 68371

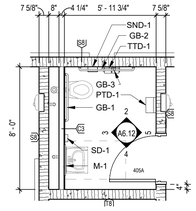
CE No.: 380-001-21

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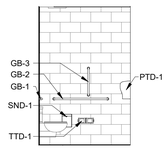
Area A - Enlarged Plans, Elevations & Schedule

A6.11

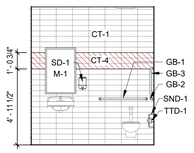
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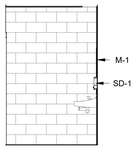
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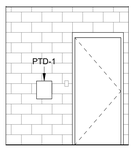
2 RR 405A - NORTH
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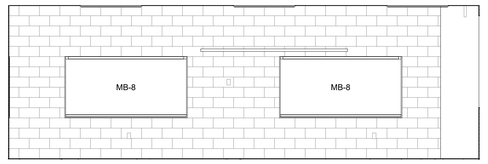
3 RR 405A - WEST
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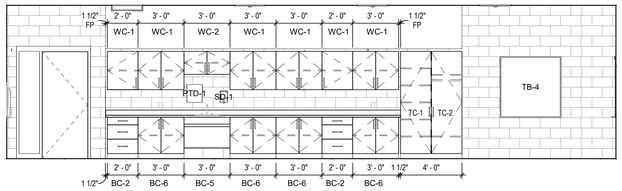
4 RR 405A - SOUTH
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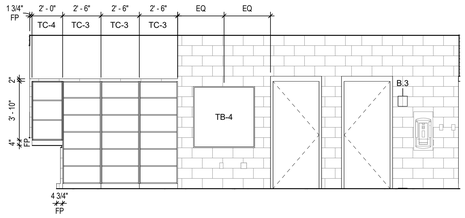
5 RR 405A - EAST
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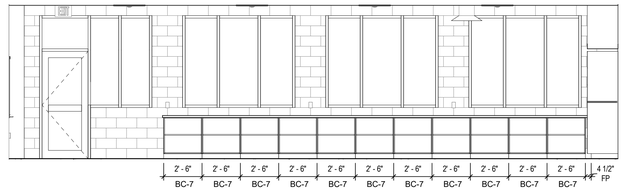
6 TYP CLASS - BACK
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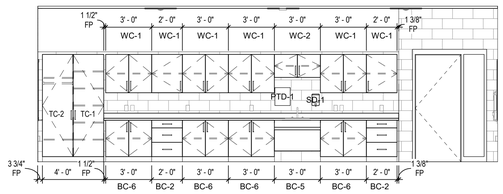
7 TYP. CLASS - SINK WALL
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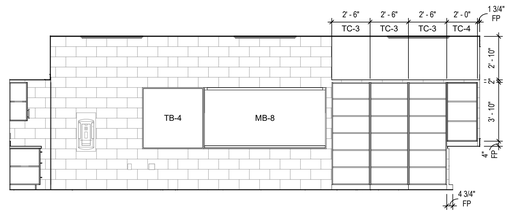
8 TYP CLASS - TEACH
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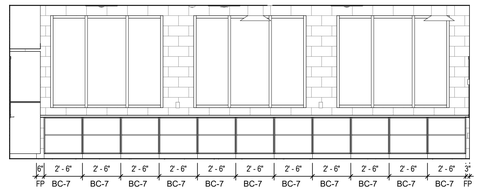
9 TYP. CLASSROOM - WINDOWS
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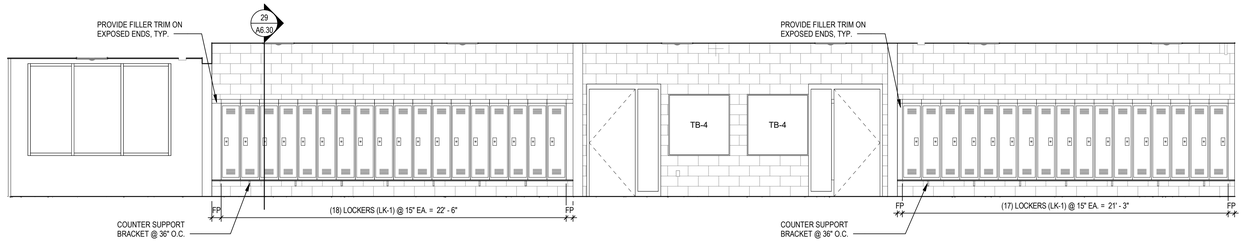
10 CLASSROOM - NORTH
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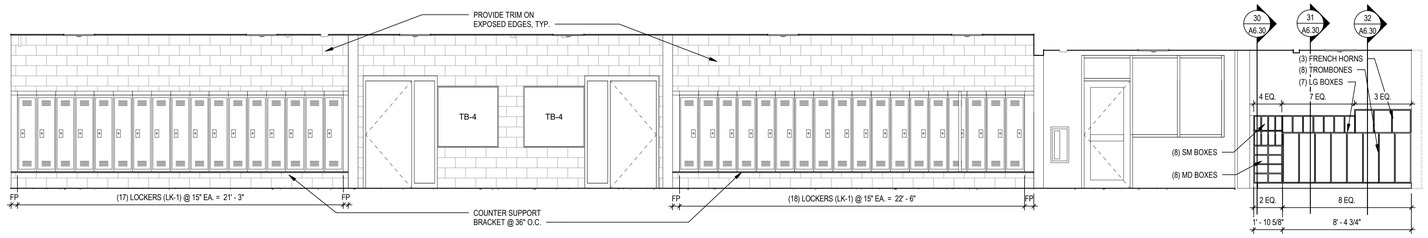
11 CLASSROOM - EAST
SCALE: 1/4" = 1'-0"



12 CLASSROOM - SOUTH
SCALE: 1/4" = 1'-0"



13 CLASS CORR. - N
SCALE: 1/4" = 1'-0"



14 CLASS CORR. - S
SCALE: 1/4" = 1'-0"

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COA No. CA0029AE

1	7 - 8	
ISSUED	-	-

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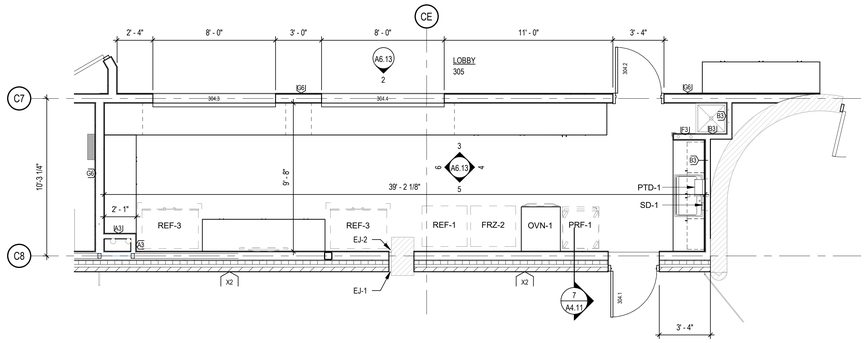
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Area A & B - Enlarged Plans & Elevations

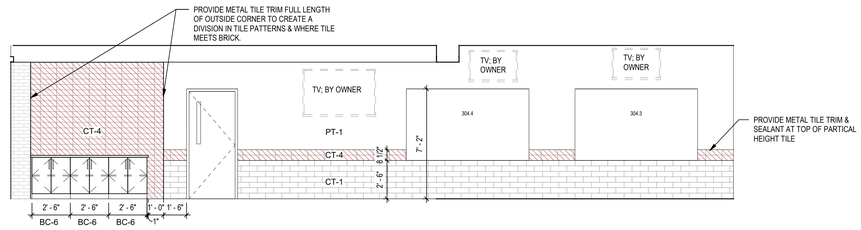
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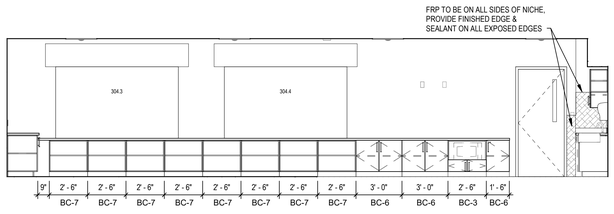
1 EP_CONCESSIONS

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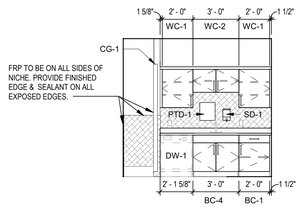
2 CONCESSIONS - FRONT

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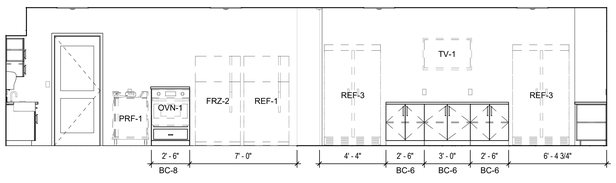
3 CONCESSIONS - N

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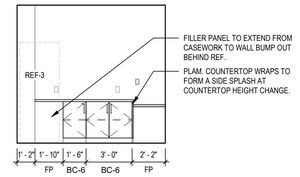
4 CONCESSIONS - E

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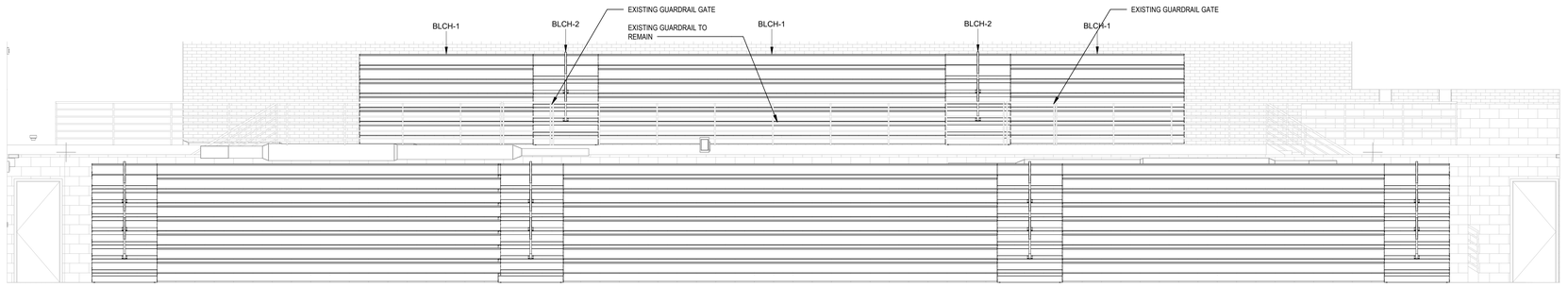
5 CONCESSIONS - S

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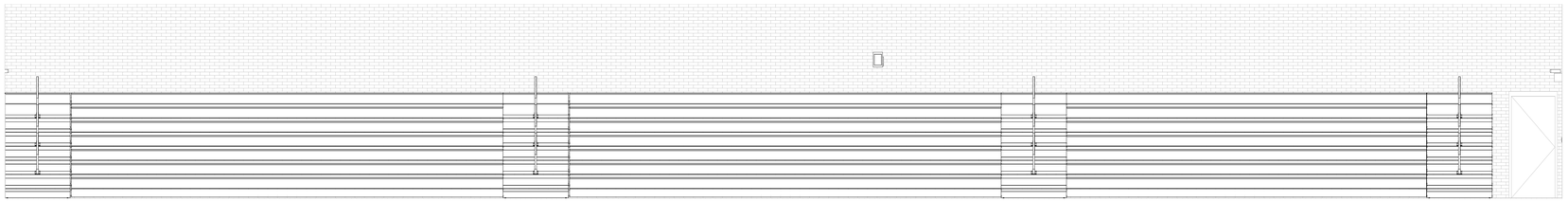
6 CONCESSIONS - W

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7 BLEACHERS - EAST

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



8 BLEACHERS - WEST

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

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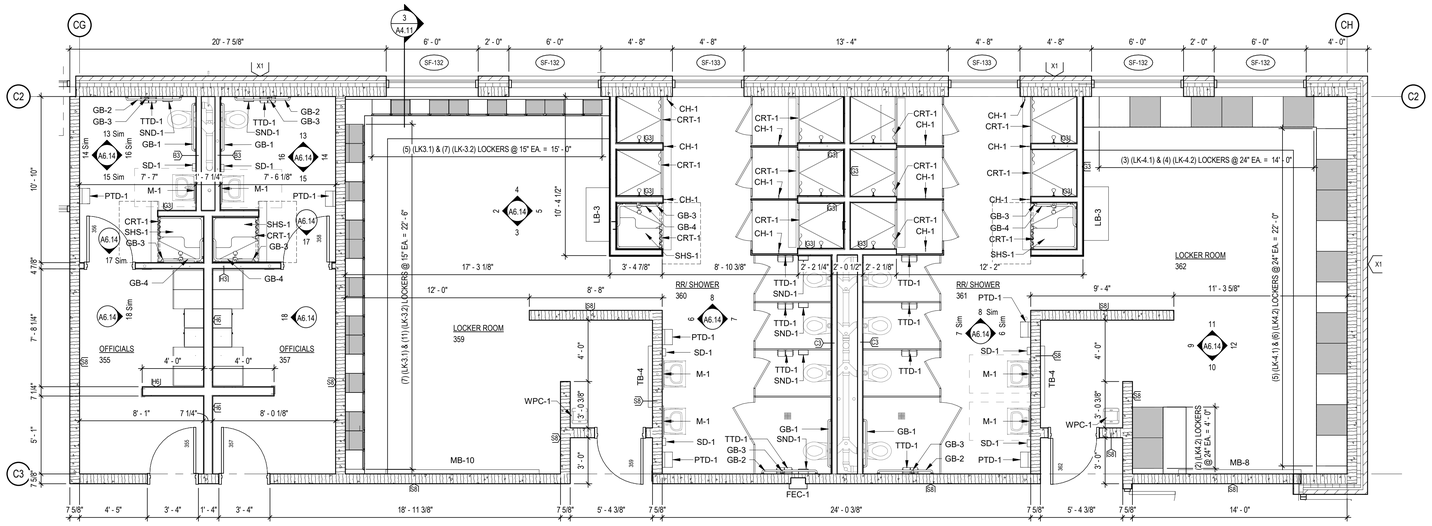
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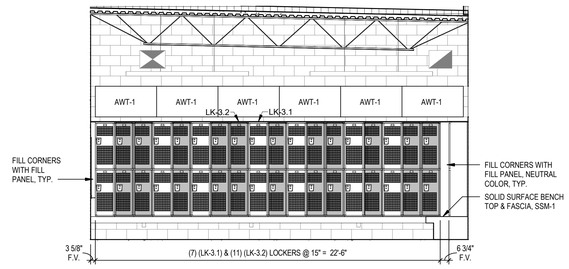
Area C - Enlarged Plans & Elevations

A6.13

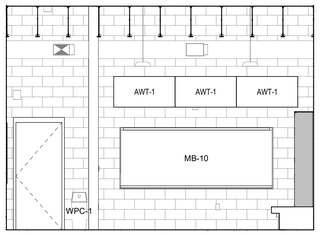
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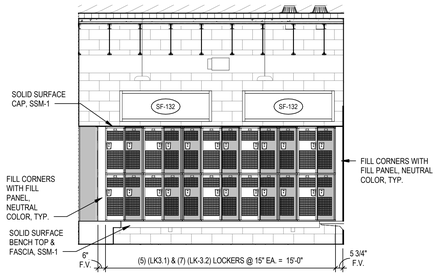
1 EP_LOCKER ROOMS
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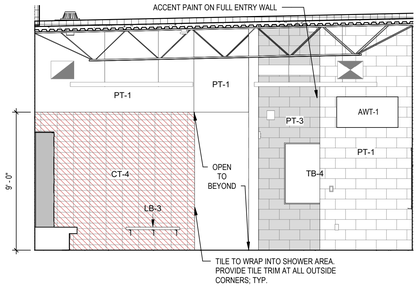
2 WOMEN'S LOCKER - W
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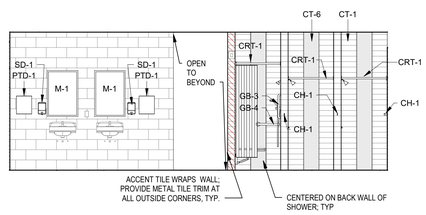
3 WOMEN'S LOCKER - S
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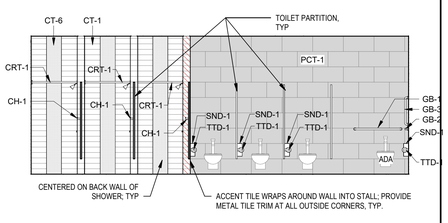
4 WOMEN'S LOCKER - N
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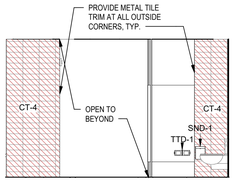
5 WOMEN'S LOCKER - E
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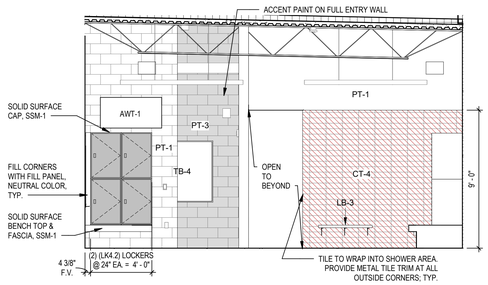
6 WOMEN'S SHOWER - W
SCALE: 1/4" = 1'-0"



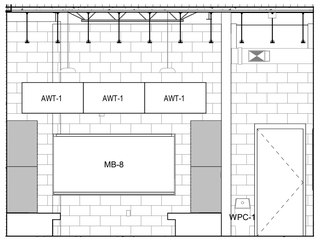
7 WOMEN'S SHOWER - E
SCALE: 1/4" = 1'-0"



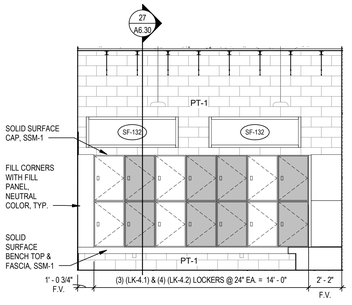
8 WOMEN'S SHOWER - N
SCALE: 1/4" = 1'-0"



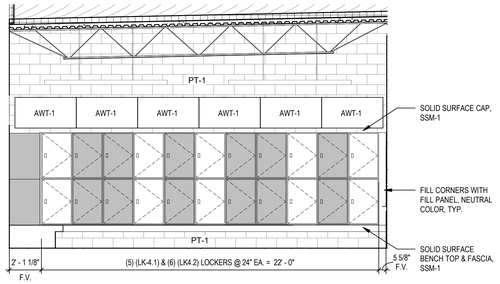
9 MEN'S LOCKER RM - W
SCALE: 1/4" = 1'-0"



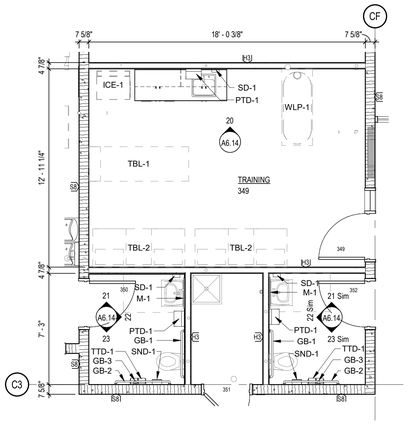
10 MEN'S LOCKER RM - S
SCALE: 1/4" = 1'-0"



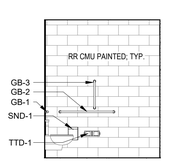
11 MEN'S LOCKER RM - N
SCALE: 1/4" = 1'-0"



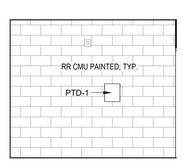
12 MEN'S LOCKER RM - E
SCALE: 1/4" = 1'-0"



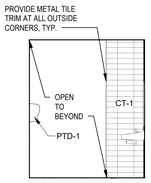
19 EP - TRAINING/ RR
SCALE: 1/4" = 1'-0"



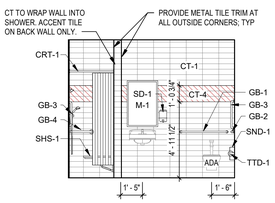
13 OFFICIALS - N
SCALE: 1/4" = 1'-0"



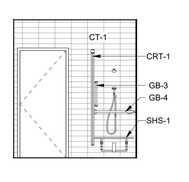
14 OFFICIALS - E
SCALE: 1/4" = 1'-0"



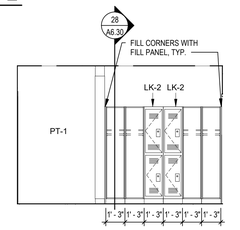
15 OFFICIALS - S
SCALE: 1/4" = 1'-0"



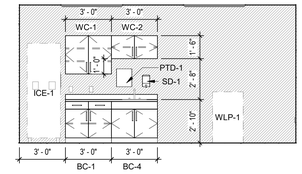
16 OFFICIALS - W
SCALE: 1/4" = 1'-0"



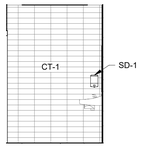
17 OFFICIALS - S2
SCALE: 1/4" = 1'-0"



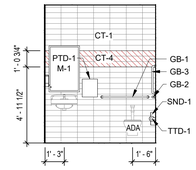
18 OFFICIALS LOCKERS
SCALE: 1/4" = 1'-0"



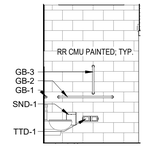
20 TRAINING 349 - N
SCALE: 1/4" = 1'-0"



21 WEIGHT RM RR - N
SCALE: 1/4" = 1'-0"



22 WEIGHT RM RR - E
SCALE: 1/4" = 1'-0"



23 WEIGHT RM RR - S
SCALE: 1/4" = 1'-0"

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Lincoln, NE 68508
COA No. CA0029AE

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

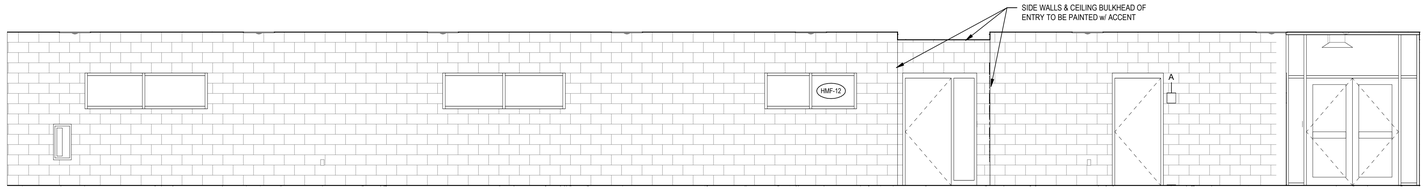
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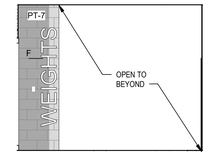
Area C - Enlarged Plans & Elevations

A6.14

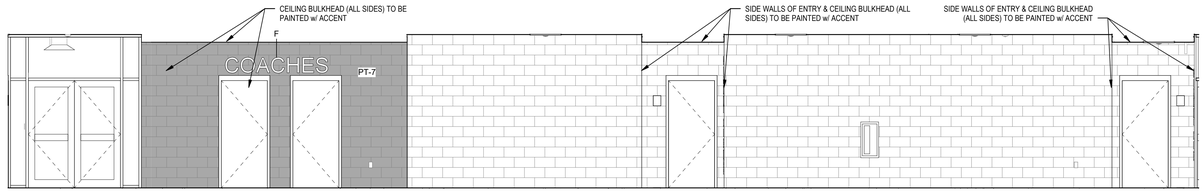
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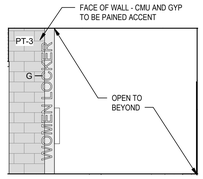
1 CORR. 346 - N (W END)
SCALE: 1/4" = 1'-0"



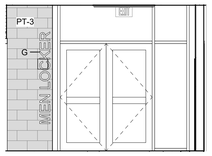
2 WEIGHT RM - ENTRY
SCALE: 1/4" = 1'-0"



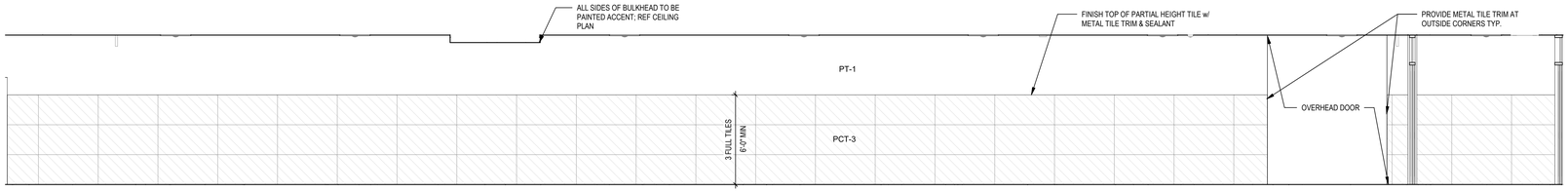
3 CORR. 346 - N (E END)
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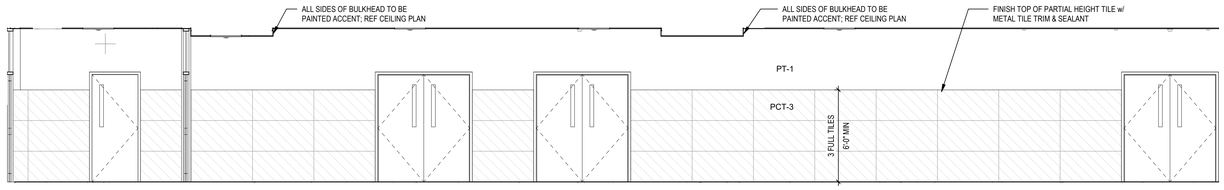
4 WOMEN LOCKER - ENTRY
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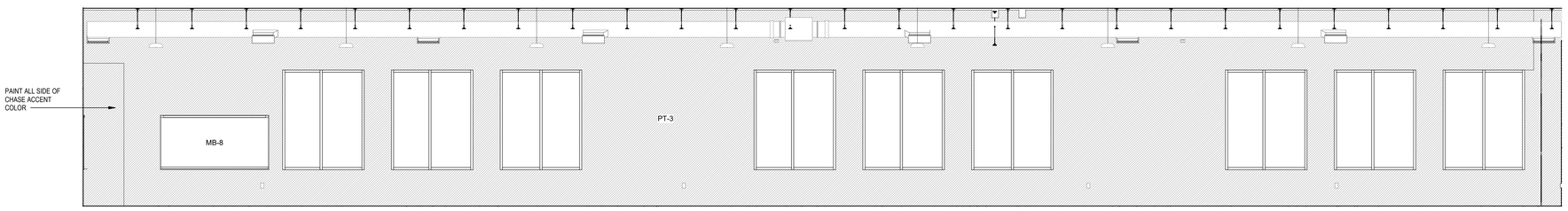
5 MEN LOCKER - ENTRY
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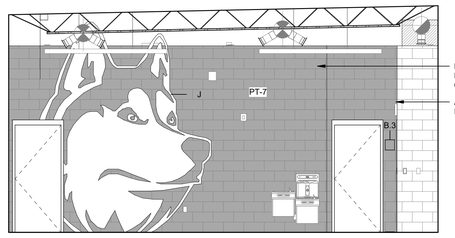
6 CORR. 346 - S (W END)
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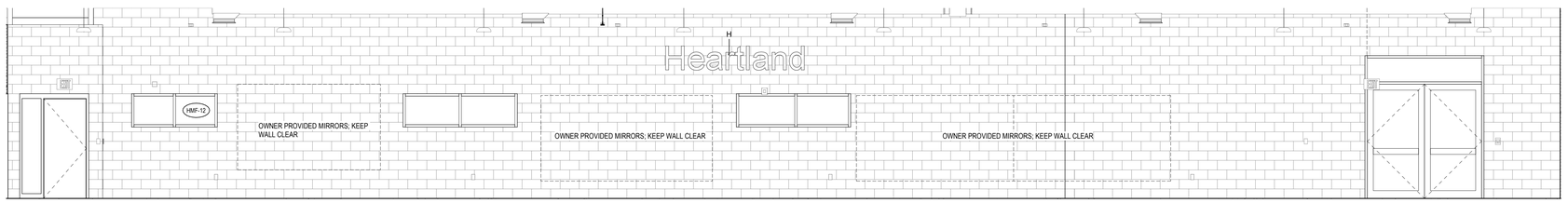
7 CORR. 346 - S (E END)
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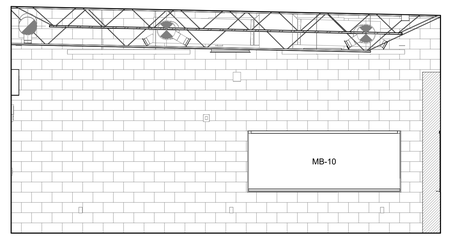
8 WEIGHT RM - N
SCALE: 1/4" = 1'-0"



9 WEIGHT RM - E
SCALE: 1/4" = 1'-0"



10 WEIGHT RM - S
SCALE: 1/4" = 1'-0"



11 WEIGHT RM - W
SCALE: 1/4" = 1'-0"

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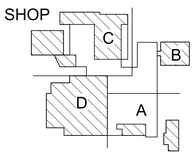
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COA No. CA0029AE



Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

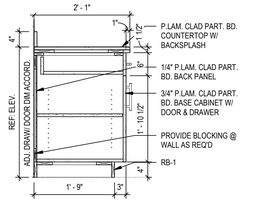
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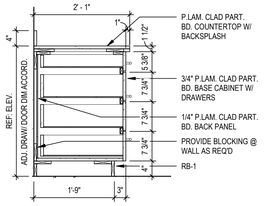
Area C - Interior Elevations

A6.15

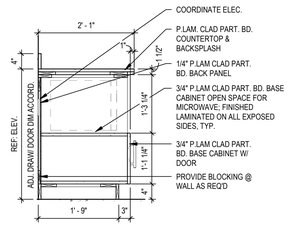
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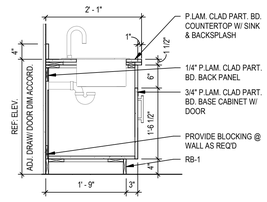
1 BC-1
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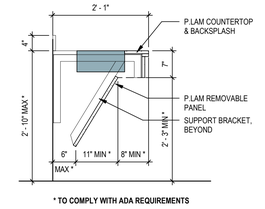
2 BC-2
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3 BC-3
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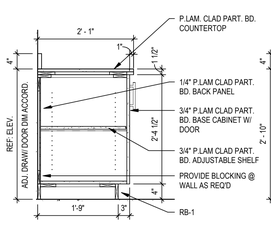


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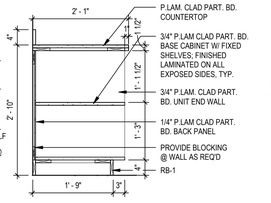


* TO COMPLY WITH ADA REQUIREMENTS

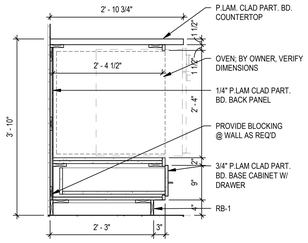
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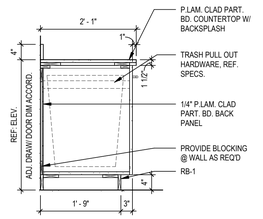
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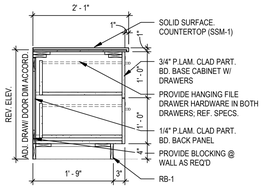
7 BC-7
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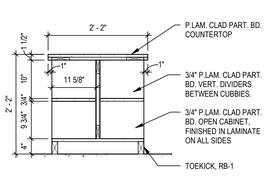
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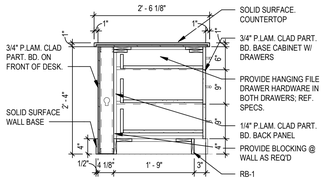
9 BC-9
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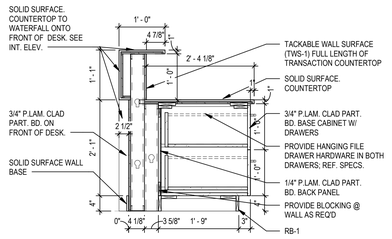
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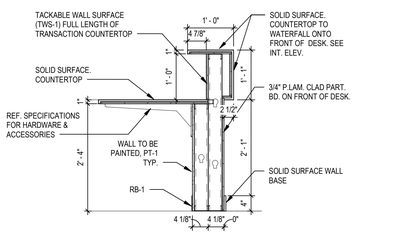
11 SHELVING
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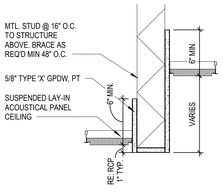
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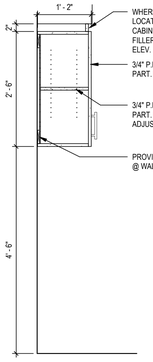
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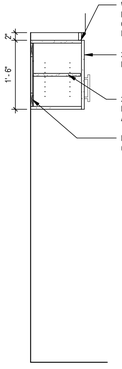
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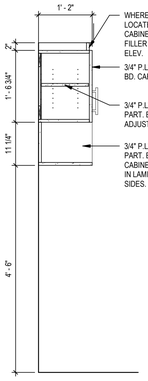
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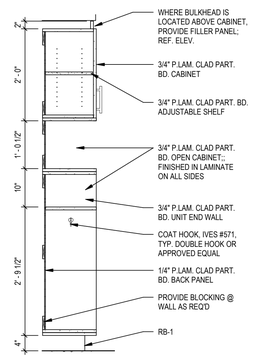
16 WC-1
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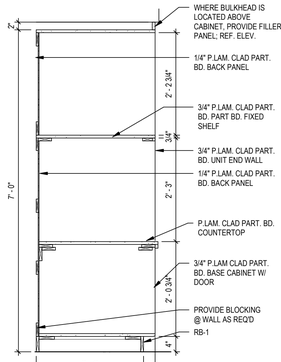
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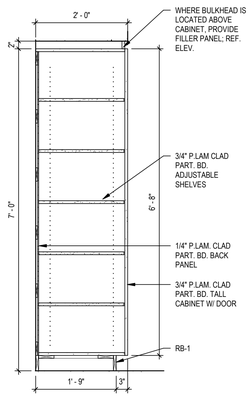
18 WC-3
SCALE: 3/4" = 1'-0"



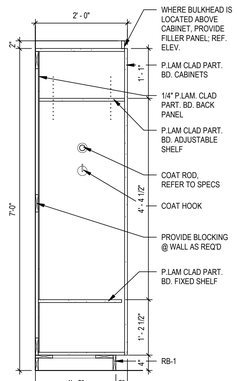
19 WC-4
SCALE: 3/4" = 1'-0"



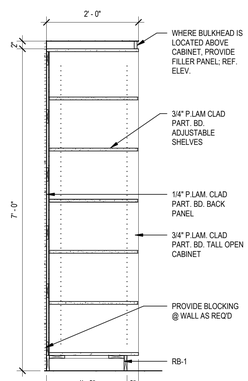
20 WC-5
SCALE: 3/4" = 1'-0"



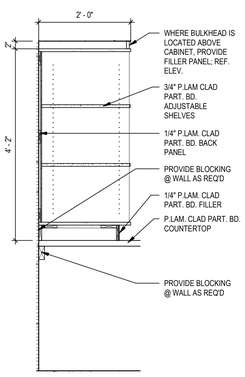
TC-1
SCALE: 3/4" = 1'-0"



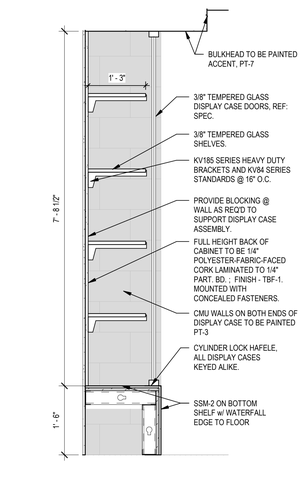
22 TC-2
SCALE: 3/4" = 1'-0"



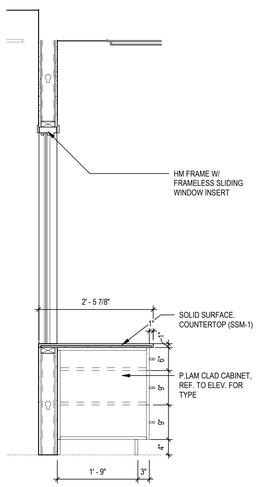
23 TC-3
SCALE: 3/4" = 1'-0"



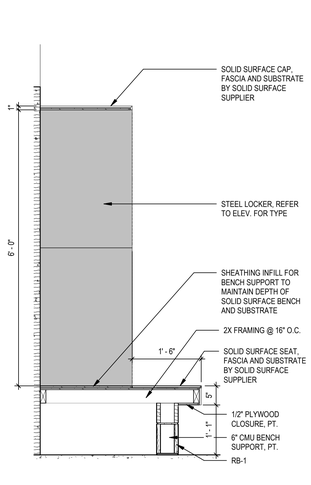
24 TC-4
SCALE: 3/4" = 1'-0"



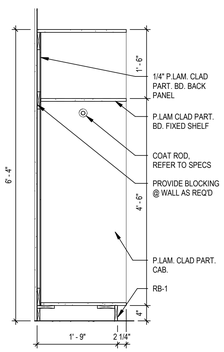
25 TROPHY CASE
SCALE: 3/4" = 1'-0"



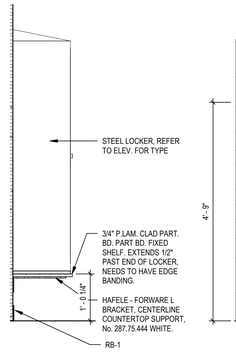
26 SLIDING WINDOW
SCALE: 3/4" = 1'-0"



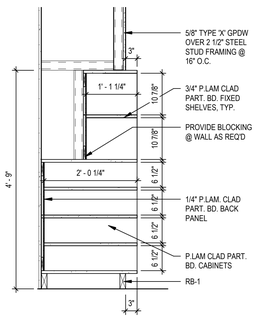
27 LOCKER BENCH
SCALE: 3/4" = 1'-0"



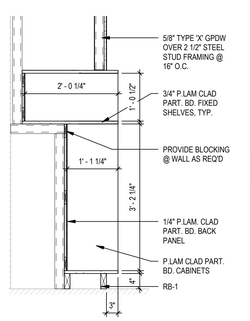
28 OFFICIAL LOCKER
SCALE: 3/4" = 1'-0"



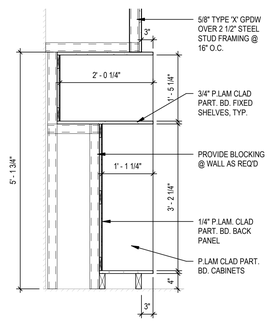
29 STUDENT LOCKERS
SCALE: 3/4" = 1'-0"



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



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



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

CLARK & ENERSEN

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SHEET HISTORY:

ISSUED - -

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

-

Interior Details

A6.30

Plot Time Stamp: 5/8/2023 12:23:41 PM
File Location/Name: BIM 360:/380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt

DOOR SCHEDULE

DOOR NO.	PAIR WIDTH	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HARDWARE	REMARKS
001		3' - 0"	7' - 0"	ALD-1	-	ALF	-		13.0	
100.1		3' - 0"	7' - 0"	WD-2	STN	HMF-2	PT		34.0	
100.2		3' - 0"	7' - 0"	WD-2	STN	HMF-1	PT		35.0	
100A.1		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		43.0	
100A.2		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		43.0	
100B		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		43.0	
100C		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		38.0	
102.1	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		19.0	
102.2	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		19.0	
102.3	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		21.0	
127.1	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		1.0	
127.2	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		1.0	
127.3	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		5.0	
127.4	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		6.0	
127.5	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		6.0	
127.6	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		8.0	
300.1		3' - 0"	7' - 0"	ALD-1	-	ALF	-		14.0	
300.2	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		1.0	
300.3	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		1.0	
300.4		3' - 0"	7' - 0"	ALD-1	-	ALF	-		17.0	
300.5	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		9.0	
300.6	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		9.0	
302		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		23.0	
303.1		3' - 6"	7' - 0"	ALD-1	-	ALF	-		11.0	
303.2		3' - 6"	7' - 0"	ALD-1	-	ALF	-		11.0	
303.3		3' - 0"	7' - 0"	ALD-1	-	ALF	-		10.0	
304.1		3' - 0"	7' - 2"	ALD-2	-	ALF	-		18.0	
304.2		3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		39.0	
304.3		8' - 0"	4' - 8"	OHD-1	-	-	-		48.0	
304.4		8' - 0"	4' - 8"	OHD-1	-	-	-		48.0	
305.1		3' - 0"	7' - 0"	ALD-1	-	ALF	-		12.0	
305.2	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		3.0	
309.1	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		20.0	
309.2	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		20.0	
309.3	6' - 0"	3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		21.0	
324		3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT		40.0	
333		8' - 0"	10' - 0"	OHD-2	-	-	-		48.0	
337		3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT	45 MIN	31.0	
343		3' - 0"	7' - 0"	WD-3	STN	HMF-1	PT	45 MIN	31.0	
345.1	8' - 3 3/8"	4' - 1 11/16"	8' - 0"	ALD-1	-	ALF	-		4.0	
345.2	8' - 0"	4' - 0"	8' - 0"	ALD-1	-	ALF	-		9.0	
347.1	8' - 0"	4' - 0"	8' - 0"	ALD-1	-	ALF	-		2.0	
347.2		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT		24.0	
348		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		43.0	
349		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT		36.0	KEYPAD
350		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		46.0	
351		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		42.0	
352		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		47.0	
354.1	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		4.0	
354.2	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		9.0	
355		3' - 0"	7' - 0"	HMD-1	PT	HMF-1S	PT		36.0	KEYPAD
356		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		46.0	
357		3' - 0"	7' - 0"	HMD-1	PT	HMF-1S	PT		36.0	KEYPAD
358		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		46.0	
359		3' - 0"	7' - 0"	HMD-1	PT	HMF-1S	PT		25.0	STORM
362		3' - 0"	7' - 0"	HMD-1	PT	HMF-1S	PT		25.0	STORM
363.1	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		4.0	
363.2	6' - 0"	3' - 0"	7' - 0"	ALD-1	-	ALF	-		7.0	
400.1		3' - 0"	7' - 0"	ALD-1	-	ALF	-		14.0	

DOOR SCHEDULE

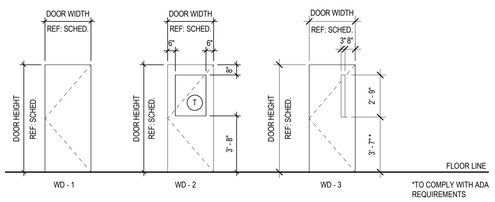
DOOR NO.	PAIR WIDTH	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	FIRE RATING	HARDWARE	REMARKS
400.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		15.0	
402.1		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT	SMOKE	29.0	
402.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		10.0	EGRESS ONLY
402A		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		47.0	
402B		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT	45 MIN	28.0	
403		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT	SMOKE	29.0	
403.3		3' - 0"	7' - 0"	ALD-1	-	ALF	-		13.0	
404		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT	SMOKE	29.0	
405.1		3' - 0"	7' - 0"	WD-1	STN	HMF-4	PT	SMOKE	29.0	
405.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		10.0	EGRESS ONLY
405A		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT		47.0	
405B		3' - 0"	7' - 0"	WD-1	STN	HMF-2	PT	45 MIN	28.0	
500.1		3' - 0"	7' - 0"	ALD-1	-	ALF	-		14.0	
500.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		15.0	
502		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		47.0	
503		2' - 6"	7' - 0"	WD-1	STN	HMF-1	PT	45 MIN	32.0	
504.1		3' - 0"	7' - 0"	ALD-1	-	ALF	-		13.0	
504.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		16.0	
505.1		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT	SMOKE	30.0	
505.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		10.0	EGRESS ONLY
505A		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT	45 MIN	28.0	
505B		2' - 8"	7' - 0"	WD-1	STN	HMF-1	PT		44.0	
505C		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		44.0	
506.1		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		26.0	
506.2		3' - 0"	7' - 0"	WD-1	STN	HMF-5	PT		27.0	
506.3		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		27.0	
507	5' - 0"	3' - 0"	7' - 0"					45 MIN	22.0	
508.1		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT	SMOKE	30.0	
508.2		3' - 0"	7' - 0"	ALD-1	-	ALF	-		10.0	EGRESS ONLY
508A		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT		44.0	
509.1		3' - 0"	7' - 0"	WD-2	STN	HMF-1	PT		44.0	
509.2		3' - 0"	7' - 0"	WD-2	STN	HMF-1	PT		44.0	
510		3' - 0"	7' - 0"	WD-1	STN	HMF-1	PT	SMOKE	33.0	
511.1		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT	SMOKE	30.0	
511.2		3' - 6"	7' - 0"	ALD-1	-	ALF	-		10.0	EGRESS ONLY
512		3' - 0"	7' - 0"	WD-1	STN	HMF-3	PT		43.0	

DOOR & FRAME TYPE GENERAL NOTES

1. PROVIDE SAFETY GLAZING OR FIRE-PROTECTION-RATED GLAZING IN LOCATIONS REQUIRED BY CURRENT LOCAL CODE. NOTIFY ARCHITECT OF CHANGES REQUIRED TO THE DRAWINGS. PROVIDE OBSCURE GLAZING AS INDICATED.
2. PROVIDE AND INSTALL SAFETY GLAZING IN LOCATIONS AS PER SECTION ***2406 & 2408 OF THE 2018 INTERNATIONAL BUILDING CODE.***
3. ALL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS TO BE PROVIDED BY SUPPLIER W/ ADJUSTMENTS MADE FOR INSTALLATION TOLERANCES REQUIRED. VERIFY ALL EXISTING OPENINGS PRIOR TO ORDER OF ALL NEW DOORS, DOOR FRAMES AND WINDOW FRAMES.
4. SEE FLOOR PLANS FOR DIRECTION OF DOOR SWINGS.
5. REFER TO WALL TYPE THICKNESS FOR THROAT DEPTHS OF HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN STEEL STUD WALLS W/ GYPSUM. HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN PRECAST, CAST-IN PLACE OR C.M.U. WALLS SHALL HAVE A STANDARD 6" NOMINAL THROAT DEPTH AND SHALL BE CENTERED IN THE WALL, UNLESS NOTED OTHERWISE.
6. ALL INTERIOR HOLLOW METAL DOOR FRAMES SHALL BE FILLED FULL W/ BATT INSUL. COORDINATE WITH ELECTRICAL TRADES, FINISH HARDWARE AND ELECTRONIC EQUIPMENT.
7. ALL EXTERIOR ALUMINUM WINDOW FRAMING WERE DESIGNED TO ***EFCO SERIES 403*** OR AS NOTED ON THE DRAWINGS WITH ***1" INSULATED LOW 'E' GLAZING.*** INTERIOR HOLLOW METAL WINDOW FRAMING DESIGNED WITH INSULATED AND NON-INSULATED GLAZING AS NOTED ON THE DRAWINGS.
8. ALL INTERIOR DOOR FRAMES OF C.M.U. WALLS BEGIN 4" FROM THE FINISH FACE OF THE ADJACENT WALLS, AND ALL INTERIOR DOOR FRAMES OF STUD WALLS W/ GYPSUM WALLS BEGIN 4" FROM THE FINISH FACE OF THE ADJACENT WALLS UNLESS OTHERWISE NOTED.
9. CURTAIN WALL WINDLOADS AND DEADLOADS ENGINEERED BY WINDOW SUPPLIER. WINDLOAD ANCHORS SUPPLIED BY WINDOW SUPPLIER. DEADLOADS TO TRANSFER TO FOUNDATION. SEE STRUCTURAL DRAWINGS FOR WINDLOAD AND DEADLOAD REQUIREMENTS. PROVIDE EXPANSION MULLIONS IN LONGER FRAMES AS REQUIRED.
10. VERIFY HOLLOW METAL FRAME FINISH WITH FINISH SCHEDULE.
11. MULLION LOCATIONS SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE REFLECTED IN THE SHOP DRAWINGS. NOTIFY ARCHITECT OF ANY CHANGES OR DEVIATIONS.
12. BORROWED LIGHT LOCATIONS SHALL BE AS INDICATED ON THE PLAN DRAWINGS AND SHALL BE REFLECTED IN THE SHOP DRAWINGS. NOTIFY ARCHITECT OF ANY CHANGES OR DEVIATIONS.

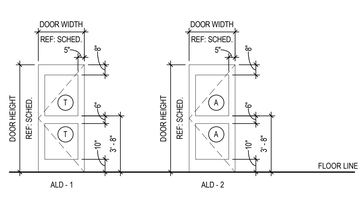
PROVIDE GLAZING PANELS AS INDICATED.

- (A) INDICATES 1" INSULATED ALUMINUM PANEL.
- (F) INDICATES 1/4" FLOAT GLASS.
- (DIG) INDICATES 1" CLEAR INSULATINED VISION GLASS
- (T) INDICATES 1/4" CLEAR TEMPERED GLASS
- (TIG) INDICATES 1" CLEAR INSULATED TEMPERED GLASS
- (S) INDICATES SPANDREL GLASS



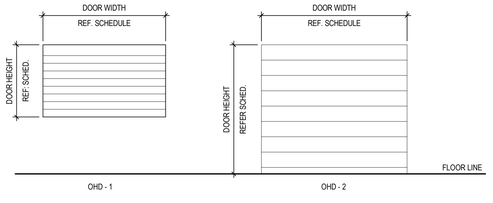
WOOD DOOR TYPES

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



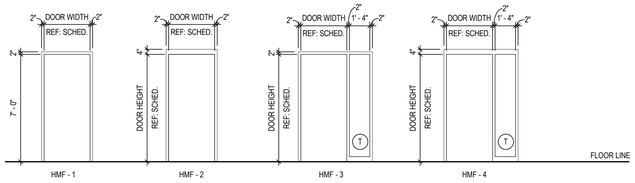
ALUMINUM DOOR TYPES

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



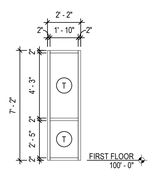
OVERHEAD COILING AND SECTIONAL DOOR TYPES

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



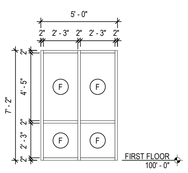
HOLLOW METAL FRAME TYPES

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



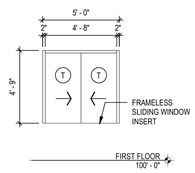
HMF-5

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



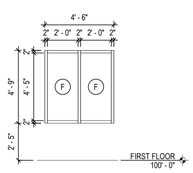
HMF-6

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



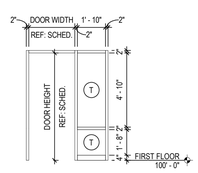
HMF-7

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



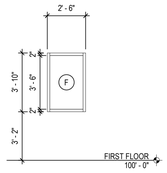
HMF-8

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



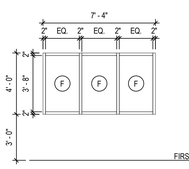
HMF-9

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



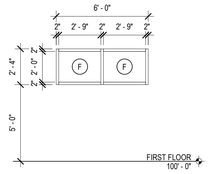
HMF-10

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



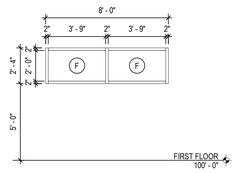
HMF-11

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



HMF-12

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



HMF-13

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

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Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED - -

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

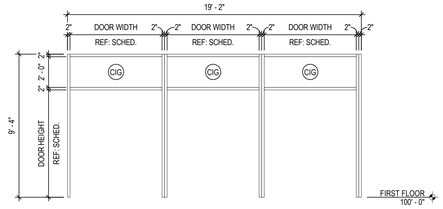
CE No.: 380-001-21

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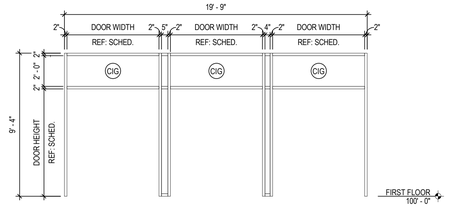
Door Schedule, Door Types, Frame Types

A6.40

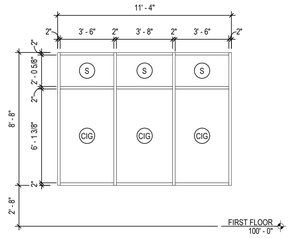
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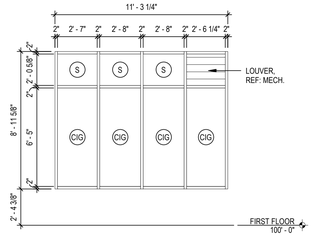
SF-101
SCALE: 1/4" = 1'-0"



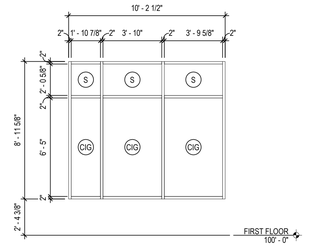
SF-102
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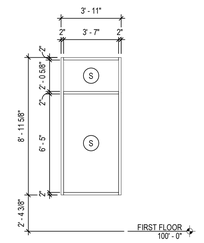
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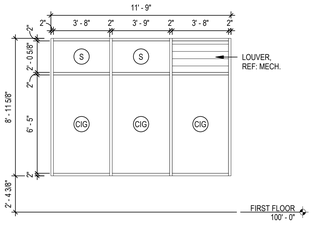
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SCALE: 1/4" = 1'-0"



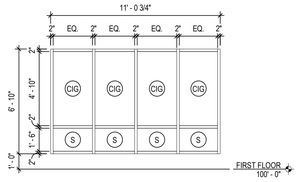
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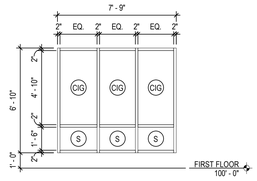
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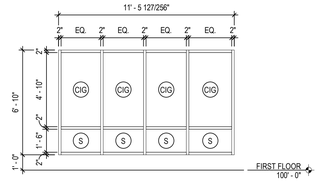
SF-107
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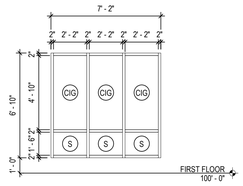
SF-108
SCALE: 1/4" = 1'-0"



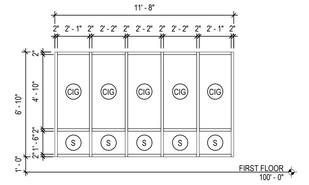
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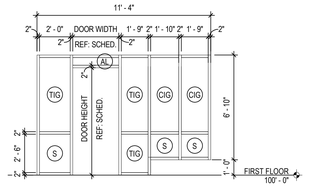
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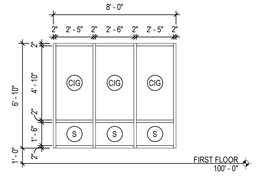
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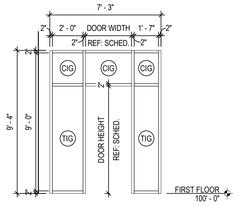
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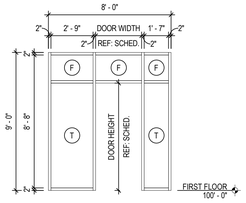
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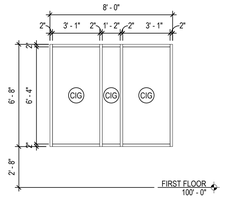
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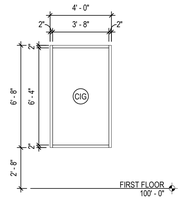
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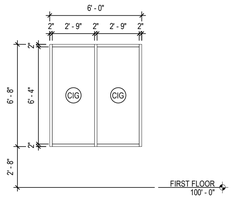
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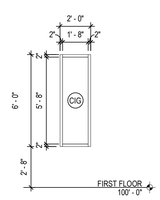
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SCALE: 1/4" = 1'-0"



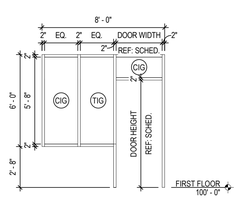
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SCALE: 1/4" = 1'-0"



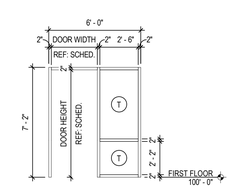
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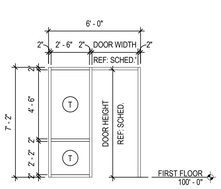
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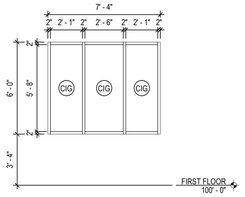
SF-121
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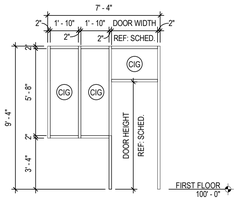
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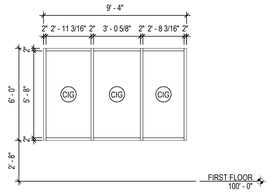
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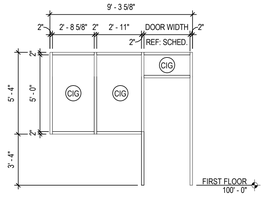
SF-124
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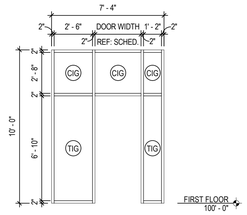
SF-125
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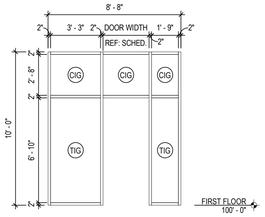
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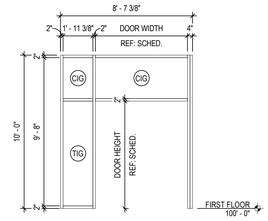
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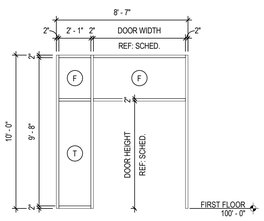
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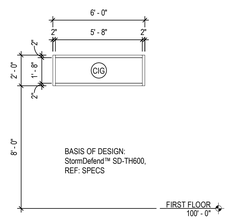
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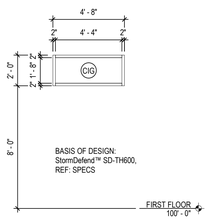
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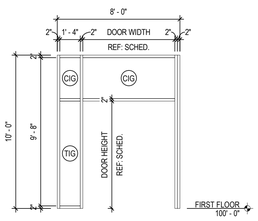
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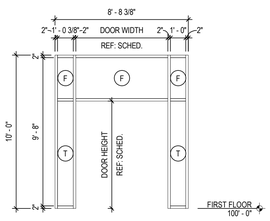
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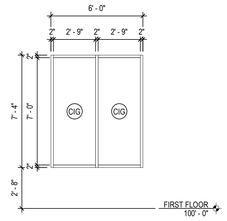
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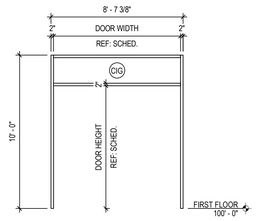
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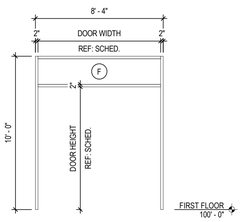
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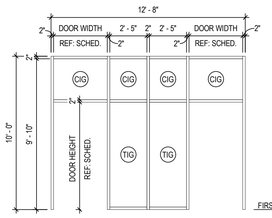
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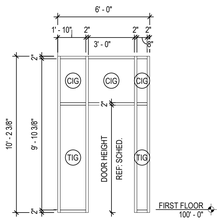
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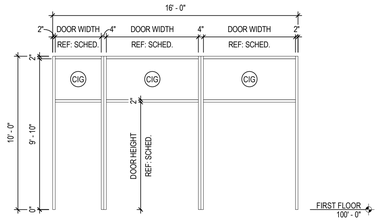
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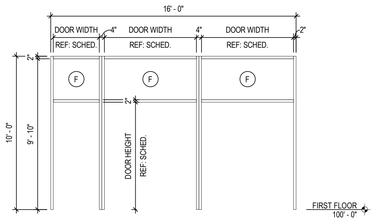
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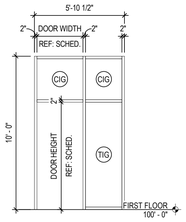
SF-140
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SF-141
SCALE: 1/4" = 1'-0"



SF-142
SCALE: 1/4" = 1'-0"



SF-143
SCALE: 1/4" = 1'-0"

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COA No. CA0029AE

SHEET HISTORY:

ISSUED	-	-

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

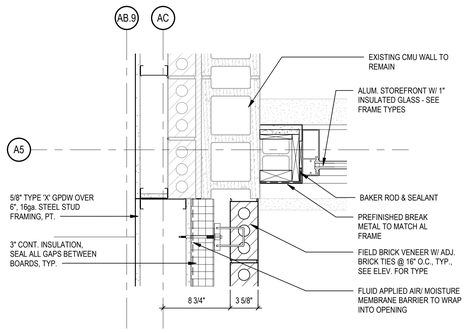
CE No.: 380-001-21

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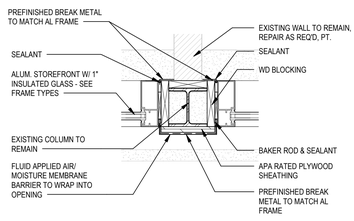
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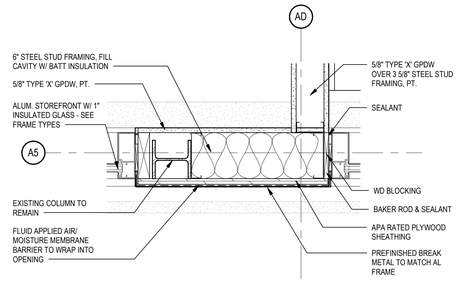
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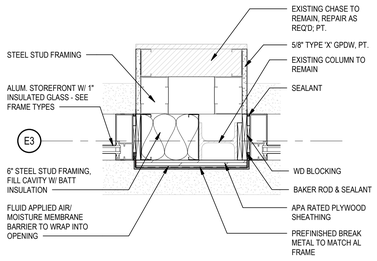
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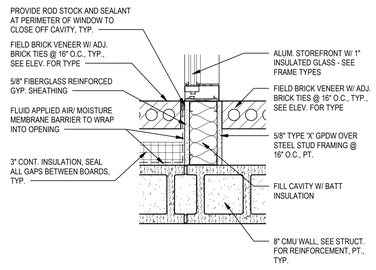
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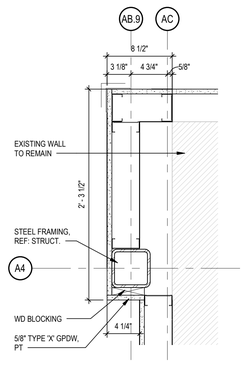
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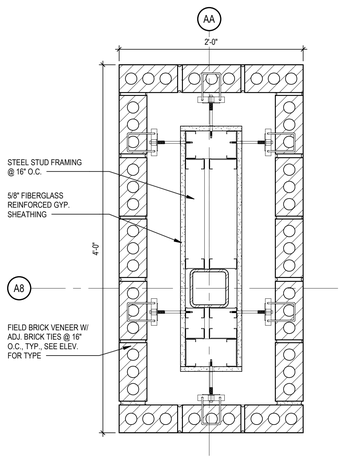
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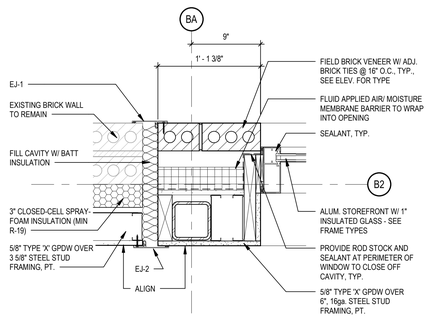
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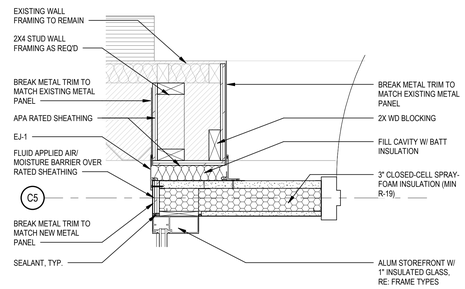
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7 PLAN DETAIL
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8 PLAN DETAIL
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9 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

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SHEET HISTORY:

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Heartland Community Schools Addition & Renovation

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Henderson, NE 68371

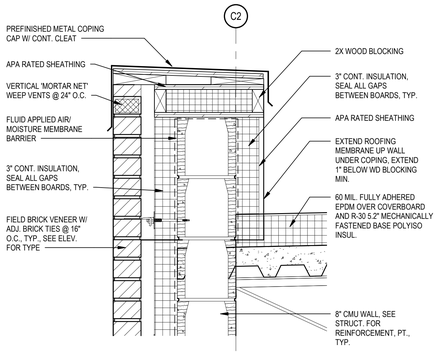
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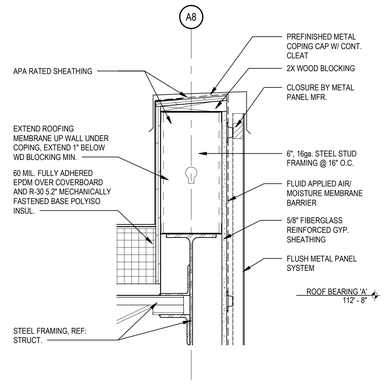
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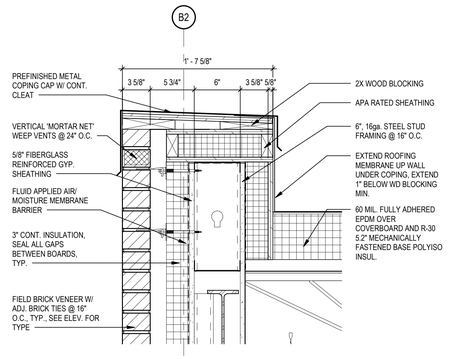
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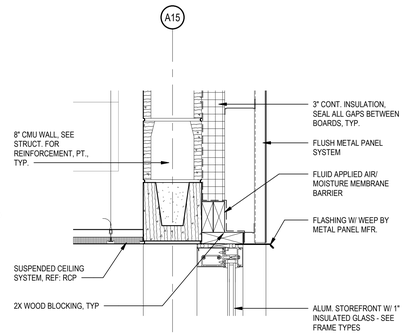
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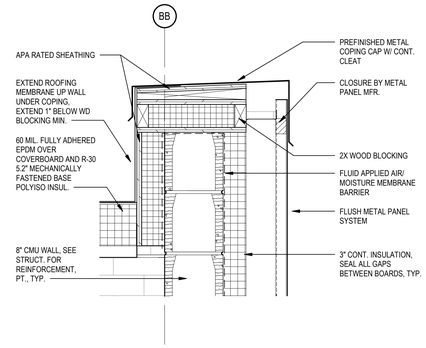
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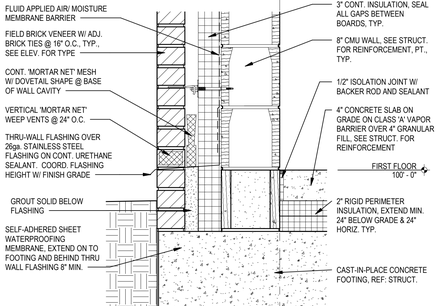
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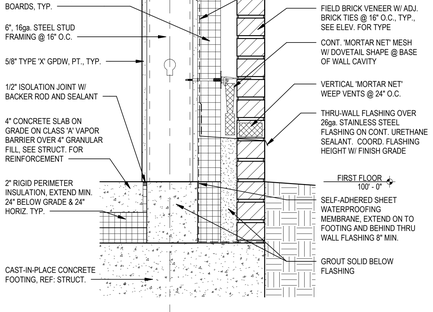
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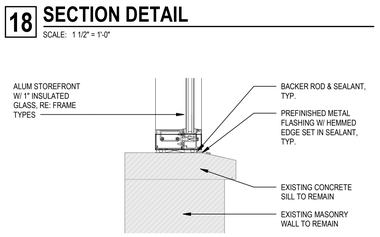
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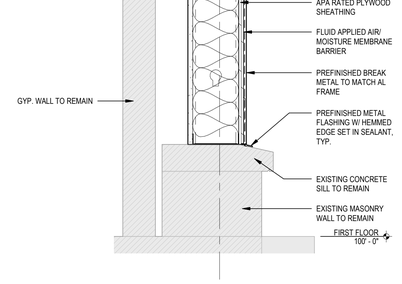
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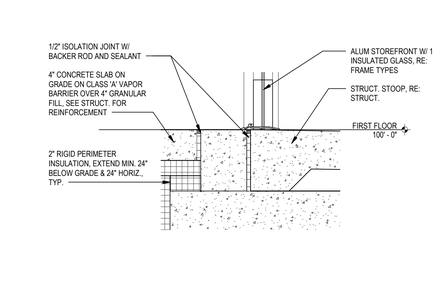
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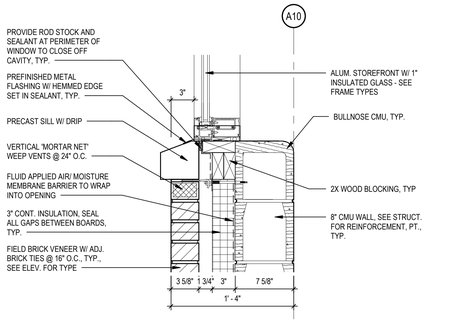
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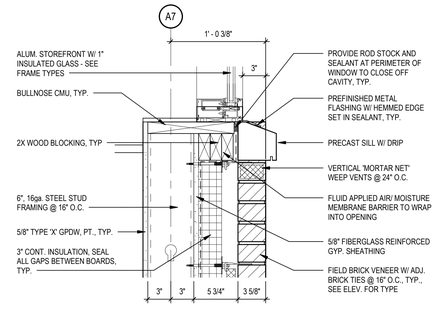
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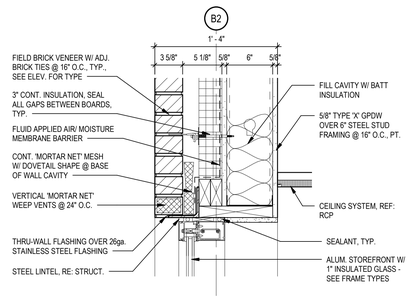
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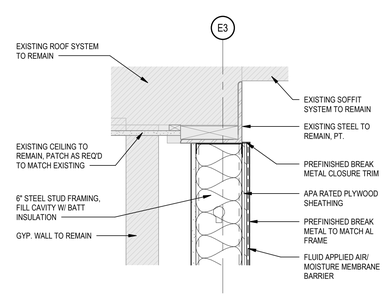
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SCALE: 1 1/2" = 1'-0"



12 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



13 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



14 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

16 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

17 SECTION DETAIL
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18 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

19 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

20 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

21 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

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7 - #	SHEET HISTORY:
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Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

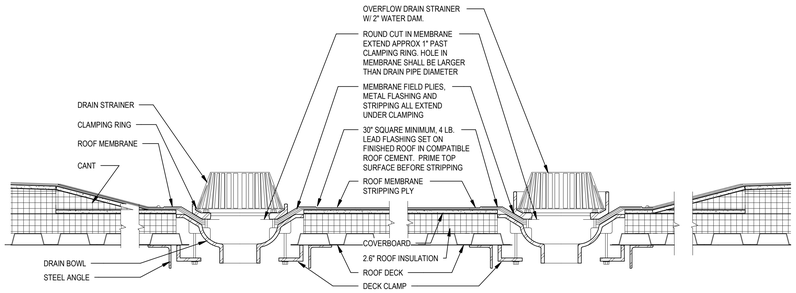
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Section Details

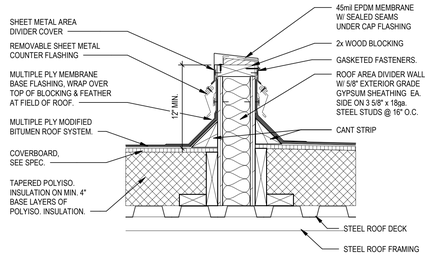
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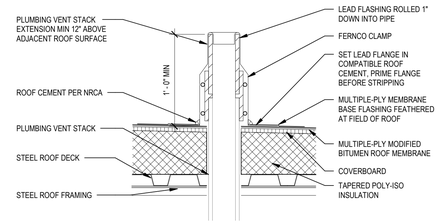
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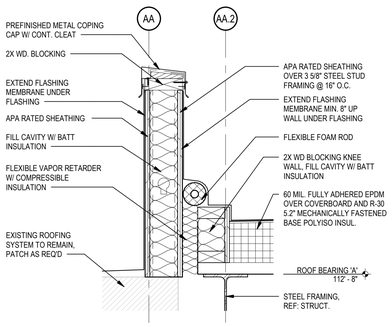
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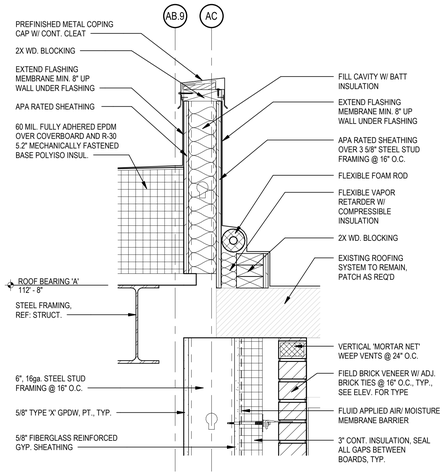
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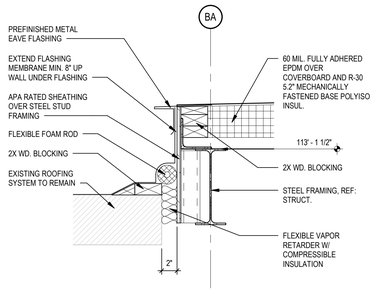
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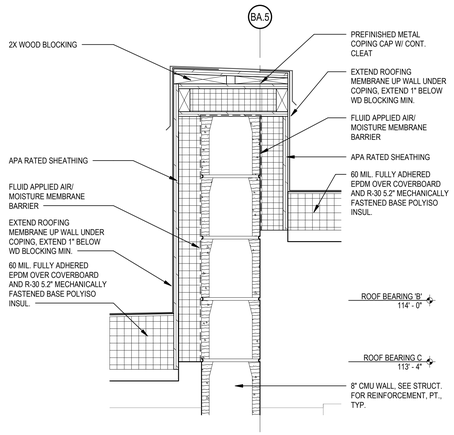
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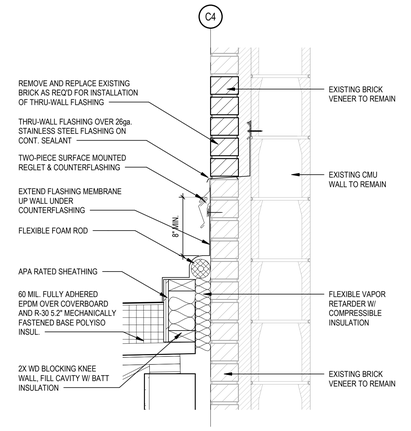
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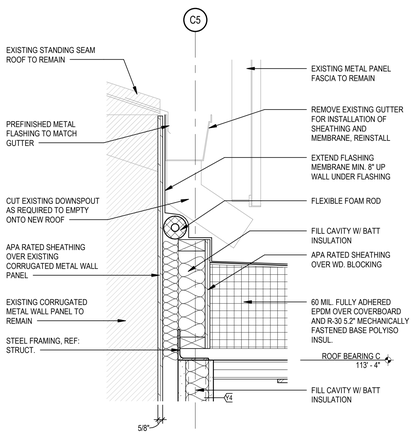
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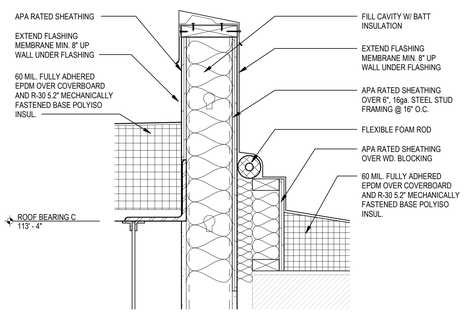
8 SECTION DETAIL

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



9 SECTION DETAIL

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



10 SECTION DETAIL

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

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7 - 8	
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SHEET HISTORY:

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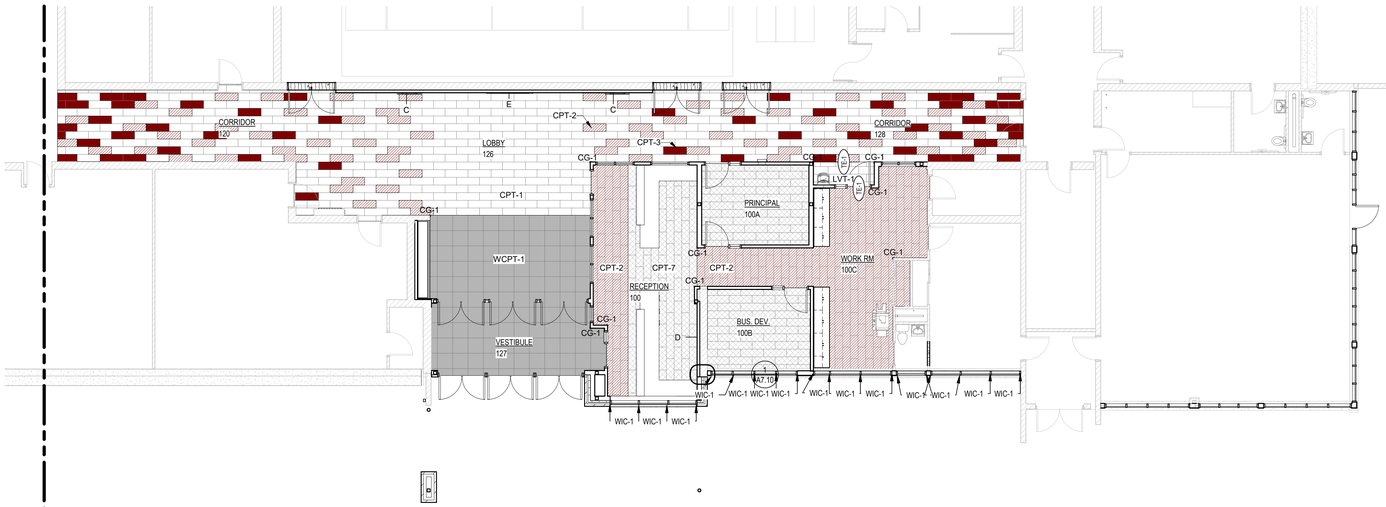
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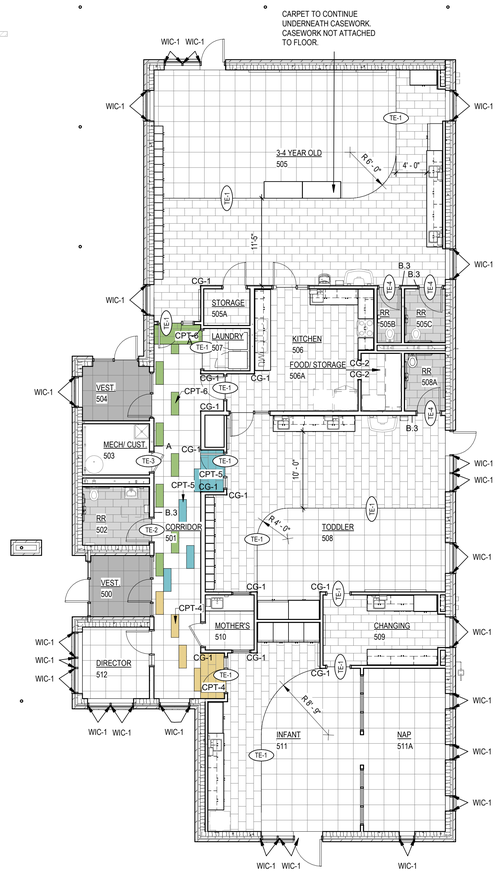
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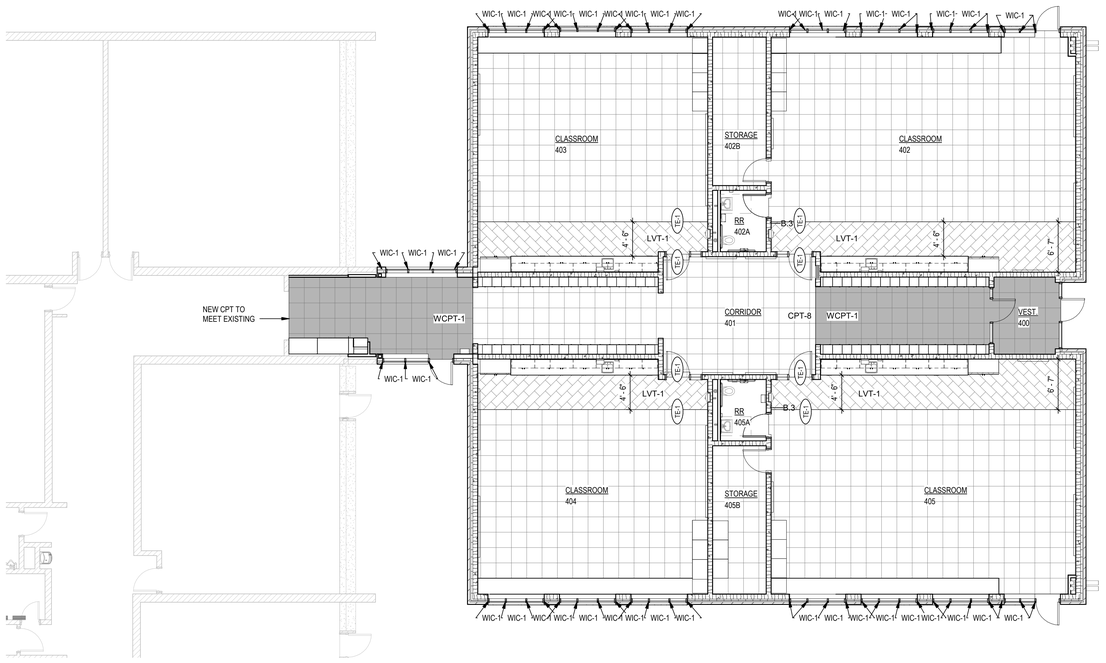
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1 FIRST FLOOR AREA A - FINISH PLAN

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





2 FIRST FLOOR AREA B - FINISH PLAN

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

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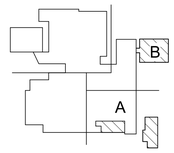
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Key Plan

Construction Documents

Heartland Community Schools Addition & Renovation

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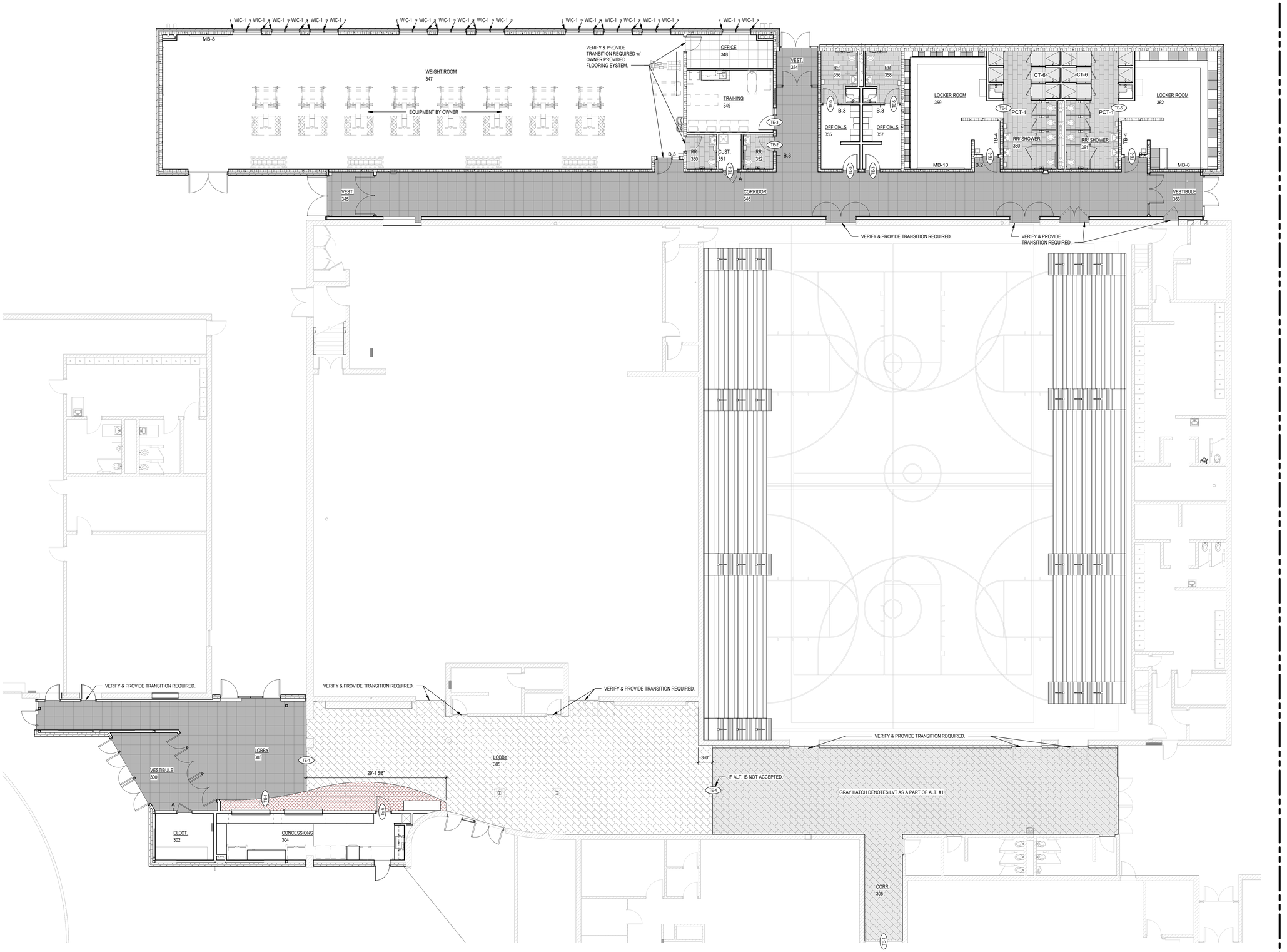
CE No.: 380-001-21

November 18, 2022

First Floor Area A & B - Finish Plans

F1.10

Plot Time Stamp: 5/8/2023 12:40:01 PM
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1 **FIRST FLOOR AREA C - FINISH PLAN**
SCALE: 1/8" = 1'-0"

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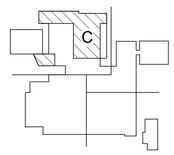
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Key Plan

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CE No.: 380-001-21

November 18, 2022

First Floor Area C - Finish Plan

F1.11

Plot Time Stamp: 5/8/2023 12:40:23 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR MTL.	FLOOR FIN.	BASE	NORTH WALL MTL.	NORTH WALL FIN.	EAST WALL MTL.	EAST WALL FIN.	SOUTH WALL MTL.	SOUTH WALL FIN.	WEST WALL MTL.	WEST WALL FIN.	CEILING MTL.	CEILING FIN.	REMARK NO.
1	CLASSROOM														
1A	WORK RM.														
1B	RR														
2	CLASSROOM														
2A	RR														
100	RECEPTION	CONC	CPT-2, 7	RB-1	GPDW	PT-1	GPDW	WC-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
100A	PRINCIPAL	CONC	CPT-7	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
100B	BUS. DEV.	CONC	CPT-7	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
100C	WORK RM	CONC	CPT-2	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
120	CORRIDOR	CONC	CPT-1, 2, 3	RB-1	GPWD / CMU		-	-	CMU	PT-1	-	-	APC-1	-	
126	LOBBY	CONC	WPCT-1, CPT-1, 2, 3	RB-1	GPDW	PT-1, 7	GPDW	PT-1	GPDW / CMU	PT-1, 7	GPDW / CMU	PT-1, 3, 7	GPDW / APC-1, 2	PT-7 / -	
127	VESTIBULE	CONC	WCPT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	
128	CORRIDOR	CONC	CPT-1, 2, 3 / LVT-1	RB-1	GPWD / CMU	PT-1	CMU	PT-1	GPDW / CMU	PT-1	-	-	APC-1		
300	VESTIBULE	CONC	WCPT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	
302	ELECT.	CONC	SC	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	OTS	-	
303	LOBBY	CONC	WCPT-1 / LVT-2	RB-1	VARIES	PT-1	BRICK	-	GPDW	PT-1 / CT-1, 4	GPDW	CT-1	GPDW / APC-1	PT-2 / -	
304	CONCESSIONS	CONC	SC	RB-1	GPDW	FRP-1 / PT-1	GPDW	FRP-1 / PT-1	GPDW / CMU	PT-1	GPDW	PT-1	APC-1	-	
305	CORR.	CONC	LVT-1* ALT. 1	RB-1* ALT. 1	-	-	-	MATCH EXISTING	-	MATCH EXISTING	-	MATCH EXISTING	-	-	
305	LOBBY	CONC	LVT-1, 2	RB-1	VARIES	PT-1	-	-	BRICK	-	BRICK	-	APC-1	-	
345	VEST.	CONC	WCPT-1	RB-1	CMU	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	
346	CORRIDOR	CONC	WCPT-1	RB-1 / -	CMU	PT-1, 7	GPDW	PT-1	GPDW	PT-1 / PCT-3	GPDW	PT-1	GPDW / APC-1	PT-2, 3, 7	
347	WEIGHT ROOM	CONC	TBD	RB-1	CMU	PT-3	CMU	PT-7	CMU	PT-1	CMU	PT-1	OTS/ACOUSTIC DECK	-	
348	OFFICE	CONC	CPT-1	RB-1	CMU	PT-1	CMU	PT-1	GPDW	PT-1	CMU	PT-1	APC-1	-	
349	TRAINING	CONC	SC	RB-1	GPDW	PT-1	CMU	PT-1	GPDW	PT-1	CMU	PT-1	APC-1	-	
350	RR	CONC	PCT-1	-	GPDW	PT-1	GPDW	CT-1, 4	CMU	PT-1	CMU	PT-1	GPDW	PT-2	
351	LOBBY	CONC	SC	RB-1	GPDW	FRP-1 / PT-1	GPDW	PT-1	CMU	PT-1	GPDW	FRP-1 / PT-1	OTS	-	
352	RR	CONC	PCT-1	-	GPDW	CT-1	CMU	PT-1	CMU	PT-1	GPDW	CT-1, 4	GPDW	PT-2	
354	VEST.	CONC	WCPT-1	RB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	GPDW	PT-2	
355	OFFICIALS	CONC	SC	RB-1	GPDW	PT-1	GPDW	PT-1	CMU	PT-1	CMU	PT-1	GPDW	PT-2	
356	RR	CONC	PCT-1	-	CMU	PT-1	GPDW	CT-1, 4	GPDW	CT-1, 4	CMU	PT-1	GPDW	PT-2	
357	OFFICIALS	CONC	SC	RB-1	GPDW	PT-1	CMU	PT-1	CMU	PT-1	GPDW	PT-1	GPDW	PT-2	
358	RR	CONC	PCT-1	-	CMU	PT-1	CMU	PT-1	GPDW	PT-1 / CT-1	GPDW	CT-1, 4	GPDW	PT-2	
359	LOCKER ROOM	CONC	SC	RB-1	CMU	PT-1	GPDW / CMU	PT-1, 3 / CT-4 / AWT-1	CMU	PT-1 / AWT-1	CMU	PT-1 / AWT-1	OTS	-	
360	RR/ SHOWER	CONC	PCT-1	-	CMU	PT-1 / CT-1	GPDW / CMU	PCT-1 / CT-1, 6	CMU	PT-1	GPDW / CMU	PT-1 / CT-1, 4, 6	GPDW	PT-2	
361	RR/ SHOWER	CONC	PCT-1	-	GPWD / CMU	PT-1 / CT-1	GPDW / CMU	PT-1, CT-1, 4, 6	CMU	PT-1	GPDW	PCT-1 / CT-1, 6	GPDW	PT-2	
362	LOCKER ROOM	CONC	SC	RB-1	CMU	PT-1	CMU	PT-1 / AWT-1	CMU	PT-1 / AWT-1	GPDW / CMU	PT-1, 3 / CT-4 / AWT-1	OTS	-	
363	VESTIBULE	CONC	WCPT-1	RB-1 / -	CMU	PT-1	GPDW	PT-1	GPDW	PT-1 / PCT-3	GPDW	PT-1	GPDW	PT-2	
400	VEST.	CONC	WCPT-1	RB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	GPDW	PT-2	
401	CORRIDOR	CONC	WCPT-1 / CPT-8	RB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	APC-1	-	
402	CLASSROOM	CONC	CPT-8 / LVT-1	RB-1	CMU	CT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	GPDW / APC-1, 2	-	
402A	RR	CONC	PCT-1	-	GPDW	PT-1	CMU	PT-1	CMU	PT-1	GPDW	CT-1, 5	GPDW	PT-2	
402B	STORAGE	CONC	CPT-8	RB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	APC-1	-	
403	CLASSROOM	CONC	CPT-8 / LVT-1	RB-1	CMU	CT-1	CMU	PT-1	CMU	PT-1 / AWT-1	CMU	PT-1	GPDW / APC-1, 2	-	
404	CLASSROOM	CONC	CPT-8 / LVT-1	RB-1	CMU	CT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	GPDW / APC-1, 2	-	
405	CLASSROOM	CONC	CPT-8 / LVT-1	RB-1	CMU	CT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	GPDW / APC-1, 2	-	
405A	RR	CONC	PCT-1	-	GPDW	PT-1	CMU	PT-1	CMU	PT-1	GPDW	CT-1, 5	GPDW	PT-2	
405B	STORAGE	CONC	CPT-8	RB-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	APC-1	-	
500	VEST.	CONC	WCPT-1	-	BRICK	-	GPDW	PT-1	BRICK	-	-	-	GPDW	PT-2	
501	CORRIDOR	CONC	CPT- 4, 5, 6, 8	RB-1	GPDW	PT-1	GPDW	PT-1, 4, 5, 6	GPDW / CMU	PT-1	GPDW / CMU	PT-1	GPDW / APC-1	PT-2 / -	
502	RR	CONC	PCT-1	PCB-1 /-	GPDW	CT-1, 2, 3, 5	GPDW	CT-1	CMU	PT-1	CMU	PT-1	GPDW	PT-2	
503	MECH/ CUST.	CONC	SC	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	
504	VEST.	CONC	WCPT-1	RB-1	-	CMU	PT-1	GPDW	PT-1	GPDW	PT-1	CMU	PT-1	GPDW	PT-2
505	3-4 YEAR OLD	CONC	CPT-8 / LVT-1	RB-1	CMU	PT-1	GPDW / CMU	PT-1	GPDW	PT-6	CMU	PT-1	APC-1	-	
505A	STORAGE	CONC	LVT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
505B	RR	CONC	PCT-1	PCB-1 /-	GPDW	PT-1	GPDW	PT-1 / CT-1, 2	GPDW	PT-1 / CT-1, 2	GPDW	PT-1 / CT-1, 2	GPDW	PT-2	
505C	RR	CONC	PCT-1	PCB-1 /-	GPDW	PT-1	CMU	PT-1	GPDW	PT-1 / CT-1, 3	GPDW	PT-1 / CT-1, 3	GPDW	PT-2	
506	KITCHEN	CONC	LVT-1	RB-1	GPDW	FRP-1 / PT-1	GPDW	FRP-1 / PT-1	GPDW	PT-1	GPDW	FRP-1 / PT-1	APC-1	-	
506A	FOOD/ STORAGE	CONC	LVT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
507	LAUNDRY	CONC	LVT-1	RB-1	GPDW	FRP-1 / PT-1	GPDW	FRP-1 / PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-2	
508	TODDLER	CONC	CPT-8 / LVT-1	RB-1	GPDW	PT-5	CMU	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
508A	RR	CONC	PCT-1	PCB-1 /-	GPDW	PT-1 / CT-1, 5	CMU	PT-1	GPDW	PT-1	GPDW	PT-1 / CT-1, 5	GPDW	PT-2	
509	CHANGING	CONC	LVT-1	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
510	MOTHER'S	CONC	CPT-8	RB-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
511	INFANT	CONC	CPT-8 / LVT-1	RB-1	GPDW	PT-4	GPDW	PT-1	CMU	PT-1	GPDW	PT-1	APC-1	-	
511A	NAP	CONC	CPT-8	RB-1	CMU	PT-1	CMU	PT-1	GPDW	PT-1	GPDW	PT-1	APC-1	-	
512	DIRECTOR	CONC	CPT-8	RB-1	CMU	PT-1	GPDW	PT-1	GPDW / CMU	PT-1	GPDW / CMU	PT-1	APC-1	-	

ROOM FINISH GENERAL NOTES

1. PAINT ALL HOLLOW METAL DOORS & FRAMES TO MATCH ADJACENT WALL COLOR, TYP.
2. PATCH, REPAIR & PAINT EXISTING WALLS AS REQUIRED . SEE ROOM FINISH SCHEDULE FOR PAINT DESIGNATION.
3. RUBBER BASE SHALL BE APPLIED TO CMU WALLS, TYP. DO NOT INSTALL RUBBER BASE ON BRICK WALLS.
4. SEE INTERIOR ELEVATIONS FOR EXTENT OF PAINT AND WALL COVERING FINISHES DESIGNATED ON FINISH SCHEDULE.
5. MOP SINK TILE SURROUND: FRP WALL PANELS. SEE SPECIFICATIONS AND WALL ELEVATIONS FOR TILE LAYOUT.
6. SEE REFLECTED CEILING PLAN.
7. INSTALL PCB-1 ON ALL PAINTED GYP WALLS WHERE PCT-1 IS THE FLOORING.
8. PROVIDE FINISHED EDGE AND SEALANT ON ALL EXPOSED EDGES OF FRP PANELS.
9. DO NOT PAINT EXISTING BRICK.
10. BULKHEADS ARE TO BE PAINTED TYPICAL WALL PAINT UNLESS NOTED OTHERWISE IN ELEV. OR RCP.
11. VERIFY & PROVIDE FLOORING TRANSITIONS AS REQUIRED WHERE NEW FLOOR FINISHES MEET EXISTING. VERIFY TRANSITION W/ ARCHITECT.

FINISH EQUIPMENT

CORNER GUARDS		
CG-1	MANUFACTURER:	C/S ACROVYN
	PRODUCT:	STAINLESS STEEL CORNER GAURD - CO SERIES (8'-0")
	COLORWAY:	BRUSHED STAINLESS STEEL
	PROFILE:	
CG-2	MANUFACTURER:	C/S ACROVYN
	PRODUCT:	STAINLESS STEEL END WALL CORNER GAURD - CO SERIES (8'-0")
	COLORWAY:	BRUSHED STAINLESS STEEL
	PROFILE:	
MARKER BOARDS (WHERE APPLICABLE PER DRAWINGS)		
MB	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	SEE SPECIFICATION
	COLORWAY:	SEE SPECIFICATION
	SIZE:	REFERENCE ELEVATION
TACK BOARDS (WHERE APPLICABLE PER DRAWINGS)		
TB	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	SEE SPECIFICATION
	COLORWAY:	SEE SPECIFICATION
	SIZE:	REFERENCE ELEVATION

FINISHES

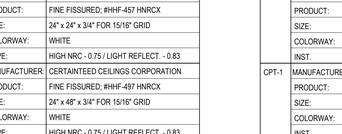
ACOUSTIC CEILING TILE		
APC-1	MANUFACTURER:	CERTAINTEED CEILINGS CORPORATION
	PRODUCT:	FINE FISSURED; #HHF-457 HNRCX
	SIZE:	24" x 24" x 3/4" FOR 15/16" GRID
	COLORWAY:	WHITE
	TYPE:	HIGH NRC - 0.75 / LIGHT REFLECT. - 0.83
APC-2	MANUFACTURER:	CERTAINTEED CEILINGS CORPORATION
	PRODUCT:	FINE FISSURED; #HHF-497 HNRCX
	SIZE:	24" x 48" x 3/4" FOR 15/16" GRID
	COLORWAY:	WHITE
	TYPE:	HIGH NRC - 0.75 / LIGHT REFLECT. - 0.83
ACOUSTIC WALL TREATMENT		
AWT-1	MANUFACTURER:	TECTUM
	SIZE:	23 3/4" X 48" X 1"
	COLORWAY:	WHITE
	MOUNTING:	C-20
	NRC:	0.80
LUXURY VINYL TILE		
LVT-1	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	CHROMASCOPE C0159
	SIZE:	12" X 24"
	COLORWAY:	940 JACK RABBIT
	INST.	1/2 OFFSET - SEE PLAN FOR ORIENTATION
LVT-2	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	CHROMASCOPE C0159
	SIZE:	12" X 24"
	COLORWAY:	550 FIRETRUCK RED
	INST.	1/2 OFFSET - SEE PLAN FOR ORIENTATION
RESILIENT BASE		
RB-1	MANUFACTURER:	TARKETT (JOHNSONITE)
	PRODUCT:	4" DURACOVE RUBBER BASE, COVED
	COLOR:	40 BLACK

CARPET		
WCPT-1	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	FIRST STEP II, QL315
	SIZE:	24" x 24"
	COLORWAY:	COBALT, 955
	INST.	BRICK ASHLAR
CPT-1	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	ACCREDITED GT431
	SIZE:	12" X 36"
	COLORWAY:	969 DORTORATE
	INST.	SEE FINISH PLAN
CPT-2	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	PROFICIENT GT432
	SIZE:	12" X 36"
	COLORWAY:	963 LECTURE
	INST.	SEE FINISH PLAN
CPT-3	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SABBATICAL GT433
	SIZE:	12" X 36"
	COLORWAY:	359 EXTRA CREDIT
	INST.	SEE FINISH PLAN
CPT-4	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SABBATICAL GT433
	SIZE:	12" X 36"
	COLORWAY:	159 MAJOR
	INST.	SEE FINISH PLAN
CPT-5	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SABBATICAL GT433
	SIZE:	12" X 36"
	COLORWAY:	525 AUDIT
	INST.	SEE FINISH PLAN
CPT-6	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SABBATICAL GT433
	SIZE:	12" X 36"
	COLORWAY:	655 SCHOLAR
	INST.	SEE FINISH PLAN
CPT-7	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SABBATICAL GT433
	SIZE:	12" X 36"
	COLORWAY:	977 GPA
	INST.	SEE FINISH PLAN
CPT-8	MANUFACTURER:	MOHAWK GROUP
	PRODUCT:	SWIPE RIGHT GT418
	SIZE:	24" X 24"
	COLORWAY:	969 BROOKWOOD
	INST.	SEE FINISH PLAN

PORCELAIN CERAMIC TILE		
PCT-1	MANUFACTURER:	DALTILE
	PRODUCT:	VOLUME 1.0
	SIZE:	12 X 24
	COLORWAY:	STEREO GREY VL73
	INST.	1/2 OFFSET
PCT-2	MANUFACTURER:	DALTILE
	PRODUCT:	VOLUME 1.0
	SIZE:	12 X 24
	COLORWAY:	SONIC WHITE VL75
	INST.	1/2 OFFSET
PCT-3	MANUFACTURER:	DALTILE
	PRODUCT:	CHORD
	SIZE:	24 x 48
	COLORWAY:	SONATA WHITE CH20 (UNPOLISHED)
	INST.	STACKED
PORCELAIN CERAMIC BASE		
PCB-1	MANUFACTURER:	DALTILE
	PRODUCT:	VOLUME 1.0
	SIZE:	4X12 (CUT FROM 12 X 24)
	COLORWAY:	STEREO GREY VL73
	INST.	1/2 OFFSET
CERAMIC WALL TILE		
CT-1	MANUFACTURER:	AMERICAN OLEAN (VIRGINIA TILE)
	PRODUCT:	COLOR STORY WALL
	SIZE:	4" X 12" (4 1/4" X 12 7/8")
	COLORWAY:	ICE WHITE 0025
	INST.	SEE ELEVATIONS
CT-2	MANUFACTURER:	AMERICAN OLEAN (VIRGINIA TILE)
	PRODUCT:	COLOR STORY WALL
	SIZE:	4" X 12" (4 1/4" X 12 7/8")
	COLORWAY:	LEMON ZEST 0075
	INST.	SEE ELEVATIONS
CT-3	MANUFACTURER:	AMERICAN OLEAN (VIRGINIA TILE)
	PRODUCT:	COLOR STORY WALL
	SIZE:	4" X 12" (4 1/4" X 12 7/8")
	COLORWAY:	PEACOCK BLUE 0084
	INST.	SEE ELEVATIONS
CT-4	MANUFACTURER:	AMERICAN OLEAN (VIRGINIA TILE)
	PRODUCT:	COLOR STORY WALL
	SIZE:	4" X 12" (4 1/4" X 12 7/8")
	COLORWAY:	GREEN APPLE 0076
	INST.	SEE ELEVATIONS
CT-5	MANUFACTURER:	AMERICAN OLEAN (VIRGINIA TILE)
	PRODUCT:	COLOR STORY WALL
	SIZE:	4" X 12" (4 1/4" X 12 7/8")
	COLORWAY:	PASSION 0019
	INST.	STACKED BOND
CT-6	MANUFACTURER:	DALTILE
	PRODUCT:	COLOR WHEEL COLLECTION - MOSAICS
	PATTERN:	LATTICE WEAVE
	SIZE:	1" X 3"
	COLORWAY:	MATTE SUEDE GRAY 0782
	INST.	SEE FFP/ELEV. (BOTH FLOOR & WALL APP.)

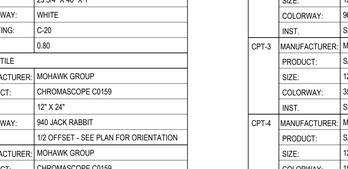
PLASTIC LAMINATE		
PL-1	MANUFACTURER:	FORMICA
	PATTERN:	AMBER MAPLE 7012-58
	FINISH:	MATTE
	APPLICATION:	VERTICAL CASEWORK
PL-2	MANUFACTURER:	FORMICA
	PATTERN:	COTTON CLOTH 8681-58
	FINISH:	MATTE
	APPLICATION:	COUNTERTOP
PL-3	MANUFACTURER:	FORMICA
	PATTERN:	CITADEL WARP 5882-58
	FINISH:	MATTE
	APPLICATION:	COUNTERTOP
SOLID SURFACE		
SSM-1	MANUFACTURER:	HI-MACS
	COLORWAY:	S029 IVORY WHITE
	APPLICATION:	COUNTERTOP, VERTICAL CASEWORK, WINDOW SILLS
SSM-2	MANUFACTURER:	HI-MACS
	COLORWAY:	S109 STEEL GRAY
	APPLICATION:	RECEPTION TOEKICK
PAINT		
PT-1	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	GOSSAMER VEIL SW 9165
	APPLICATION:	MAIN WALL PAINT
PT-2	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	CEILING BRIGHT WHITE SW 7007
	APPLICATION:	CEILING PAINT
PT-3	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	HEARTLAND CRIMSON
	APPLICATION:	ACCENT PAINT
PT-4	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	JUNE DAY SW 6682
	APPLICATION:	ACCENT PAINT (YELLOW)
PT-5	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	FRESHWATER SW 6774
	APPLICATION:	ACCENT PAINT (TEAL)
PT-6	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	PARAKEET SW 6711
	APPLICATION:	ACCENT PAINT (GREEN)
PT-7	MANUFACTURER:	SHERWIN WILLIAMS
	COLOR:	GRAY MATTERS SW 7066
	APPLICATION:	ACCENT PAINT (GRAY)

WALL PROTECTION		
WP-1	MANUFACTURER:	WOLF GORDON
	PRODUCT:	RAMPART
	PATTERN:	RESHAM - GPH 32568984
	COLORWAY:	CRIMSON
	FINISH:	SURCOAT STAIN -AND-ABRASION-RESISTANT TREATMENT
	WIDTH/WEIGHT:	52" / 35 OZ PER LINEAR YARD
FRP-1	MANUFACTURER:	CRANE COMPOSITES
	PRODUCT:	VARIETEX
	SIZE:	0.09" (2.3 MM),
	COLOR:	SUGARLOAF SAND 1294
	TEXTURE:	SANDSTONE
TACKABLE WALL SURFACE		
TWS-1	MANUFACTURER:	CLARIDGE
	PRODUCT:	CLARIDGE CORK
	COLOR:	NO. 1111 SMOKE
TACKBOARD FABRIC (DISPLAY CASE)		
TBF-1	MANUFACTURER:	MAHARM
	PRODUCT:	MUSE 466487
	COLOR:	029 POINSETTIA
	WIDTH:	54"
	APPLICATION:	POLYESTER-FABRIC-FACED CORK TACKBOARD
WINDOW COVERINGS		
WIC-1	MANUFACTURER:	MECHOSHADE SYSTEMS LLC
	PRODUCT:	MANUAL CLUTCH ROLLER SHADE INSTALLED
		FLUSH MOUNTED
	SHADECLOTH:	SOHO 1600 SERIES, 3% OPENNESS
		COLOR: 1613 MERCER
SEALED CONCRETE		
SCONC	MANUFACTURER:	--
	PRODUCT:	--



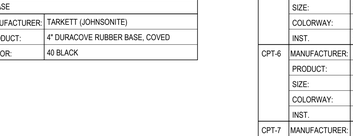
1 TE-1: CPT TO LVT

SCALE: 12" = 1'-0"



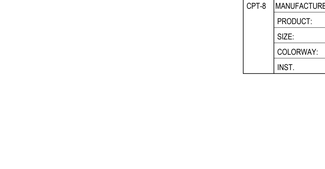
2 TE-2: PCT TO CPT

SCALE: 12" = 1'-0"



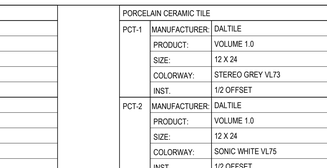
3 TE-3: CPT TO SEALED

SCALE: 12" = 1'-0"



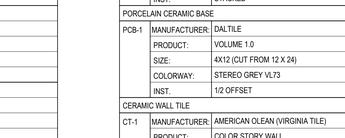
4 TE-4: PCT TO LVT

SCALE: 12" = 1'-0"



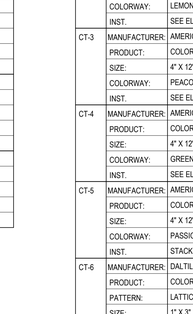
5 TE-5: PCT TO SEALED

SCALE: 12" = 1'-0"



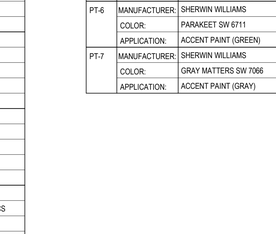
6 TE-6: LVT TO SEALED

SCALE: 12" = 1'-0"



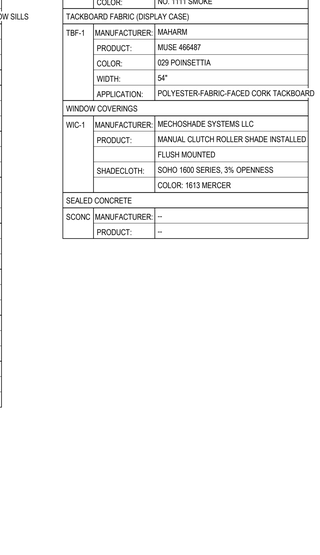
7 TILE TRIM TO PAINTED WALL

SCALE: 12" = 1'-0"



8 TILE TRANSITION

SCALE: 12" = 1'-0"



9 SHOWER WATER PROOFING

SCALE: 12" = 1'-0"

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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 002 12/07/2022 ADDENDUM #002

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Room Finishes Schedule & Details

F1.30

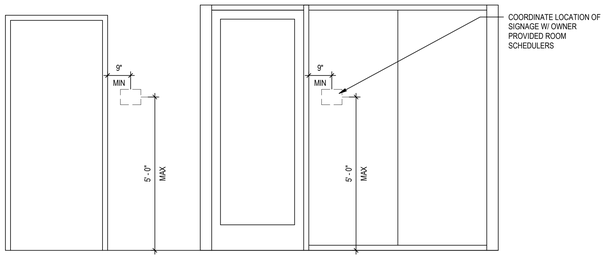
Plot Time Stamp: 5/8/2023 12:40:40 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt

SIGNAGE SCHEDULE

SIGN TEXT	SIGN TYPE	ROOM NAME	ROOM NUMBER	APPLICATION
SEE SIGNAGE DETAIL & ELEV.	D	RECEPTION	100	WALL
SEE SIGNAGE DETAIL & ELEV.	E	LOBBY	126	WALL
SEE SIGNAGE DETAIL & ELEV.	C	LOBBY	126	WALL
SEE SIGNAGE DETAIL & ELEV.	C	LOBBY	126	WALL
ELECTRICAL	A	ELECT.	302	WALL
SEE SIGNAGE DETAIL & ELEV.	F	CORRIDOR	346	WALL
SEE SIGNAGE DETAIL & ELEV.	G	CORRIDOR	346	WALL
SEE SIGNAGE DETAIL & ELEV.	G	CORRIDOR	346	WALL
SEE SIGNAGE DETAIL & ELEV.	F	CORRIDOR	346	WALL
SEE SIGNAGE DETAIL & ELEV.	H	WEIGHT ROOM	347	WALL
SEE SIGNAGE DETAIL & ELEV.	J	WEIGHT ROOM	347	WALL
RESTROOM	B.3	RR	350	WALL
CUSTODIAL	A	CUST.	351	WALL
RESTROOM	B.3	RR	352	WALL
RESTROOM	B.3	RR	356	WALL
RESTROOM	B.3	RR	358	WALL
WOMENS LOCKER	B.2	LOCKER ROOM	359	WALL
MENS LOCKER	B.2	LOCKER ROOM	362	WALL
RESTROOM	B.3	RR	402A	WALL
RESTROOM	B.3	RR	405A	WALL
RESTROOM	B.3	RR	502	WALL
CUSTODIAL	A	MECH/ CUST.	503	WALL
RESTROOM	B.3	RR	505B	WALL
RESTROOM	B.3	RR	505C	WALL
LAUNDRY	A	LAUNDRY	507	DOOR
RESTROOM	B.3	RR	508A	WALL

SIGNAGE GENERAL NOTES

1. BASIS OF DESIGN: ASI SIGNAGE INNOVATIONS.
2. PROVIDE BACKER FOR ALL SIGNAGE MOUNTED TO GLASS.
3. SIGNAGE NAME AND NUMBER VERAGE TO BE VERIFIED BY OWNER DURING SUBMITTAL PHASE.
4. ALL SIGNAGE TO BE MOUNTED FOLLOWING ADA REQUIREMENTS.



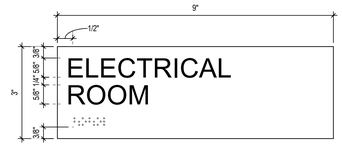
MOUNTING LOCATIONS

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

SUPPORT ROOM SIGN:
GRAPHICS SHALL BE GRAPHICALLY PRECISE, UNIFORMLY OPAQUE, RAISED A MINIMUM OF 1/32", AND GRADE 2 BRAILLE AS DEFINED BY RELEVANT LIBRARY OF CONGRESS STANDARDS, CONFORMING TO RELEVANT ADAAG REQUIREMENTS.

BASIS OF DESIGN: ASI SIGNAGE INNOVATIONS™, INTOUCH™ INTERIOR/EXTERIOR SIGN SERIES
BACKGROUND COLOR: OXIDIZED STEEL #27-0032
TEXT/GRAPHIC COLOR: IVORY #MX01
TYPESTYLE: HELVETICA MEDIUM
TEXT SIZE: TO FIT PROPORTIONALLY & CENTERED FROM LEFT TO RIGHT

(OWNER VERIFY)

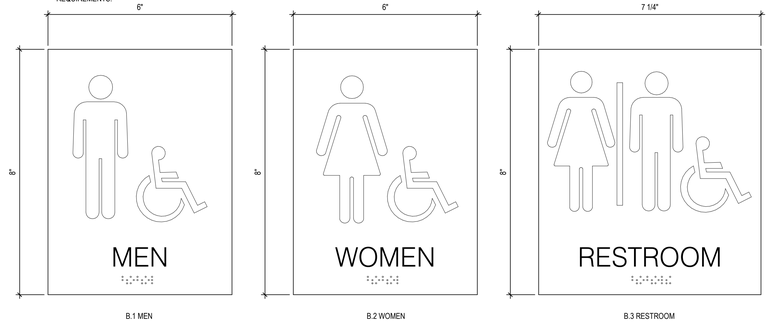


1 SIGN TYPE A - GENERAL

SCALE: 6" = 1'-0"

RESTROOM SIGN:
PHOTOMECHANICALLY PRODUCED, MONOLITHIC POLY AND RESIN, TACTILE PANEL, MATTE FINISH. GRAPHICS SHALL BE GRAPHICALLY PRECISE, UNIFORMLY OPAQUE, RAISED A MINIMUM OF 1/32", AND GRADE 2 BRAILLE AS DEFINED BY RELEVANT LIBRARY OF CONGRESS STANDARDS, CONFORMING TO RELEVANT ADAAG REQUIREMENTS.

BASIS OF DESIGN:
ASI® SIGNAGE INNOVATIONS™
SIGN SERIES: INTOUCH™ INTERIOR/EXTERIOR
BACKGROUND COLOR: OXIDIZED STEEL #27-0032
TEXT/GRAPHIC COLOR: IVORY #MX01
TYPESTYLE: HELVETICA MEDIUM



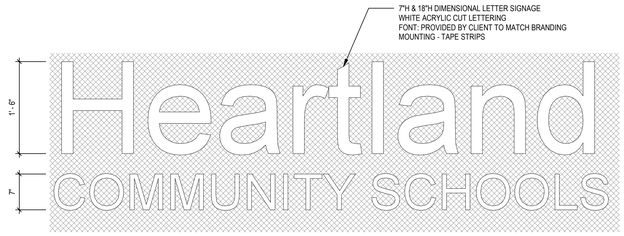
2 SIGN TYPE B - RESTROOMS

SCALE: 6" = 1'-0"



3 SIGNAGE TYPE 'C'

SCALE: 1" = 1'-0"



4 SIGNAGE TYPE 'D'

SCALE: 1" = 1'-0"



5 SIGNAGE TYPE 'E'

SCALE: 1" = 1'-0"



12"H DIMENSIONAL LETTER SIGNAGE
WHITE ACRYLIC CUT LETTERING
FONT: PROVIDED BY CLIENT TO MATCH BRANDING
MOUTNING: TAPE STRIPS TO CMU
SEE INT. ELEV. FOR FULL TEXT

6 SIGNAGE TYPE 'F'

SCALE: 1" = 1'-0"

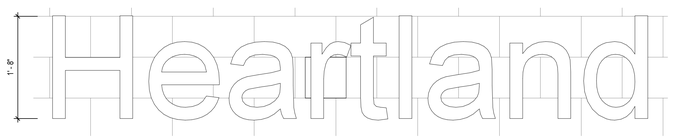


8"H DIMENSIONAL LETTER SIGNAGE
WHITE ACRYLIC CUT LETTERING
FONT: PROVIDED BY CLIENT TO MATCH BRANDING
MOUTNING: TAPE STRIPS TO CMU
SEE INT. ELEV. FOR FULL TEXT

7 SIGNAGE TYPE 'G'

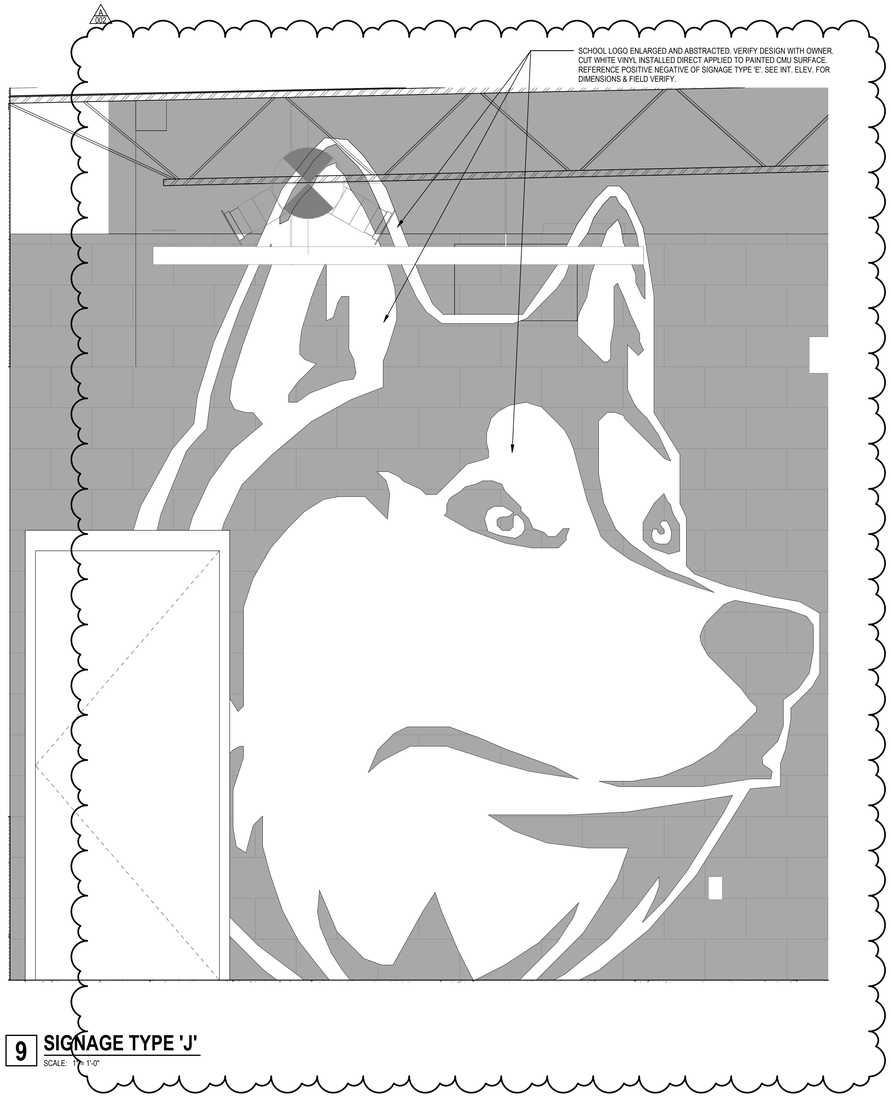
SCALE: 1" = 1'-0"

VINYL LETTERING
FONT: PROVIDED BY CLIENT TO MATCH BRANDING.
COLOR: LETTERS TO BE BOARDER IN BLACK w/ THE INFILL CREATING A GRADIENT FROM TOP (WHITE) TO BOTTOM (DARK GRAY); REFER TO CLIENT BRANDING
MOUNTING: DIRECT APPLIED TO CMU SUBSTRATE.



8 SIGNAGE TYPE 'H'

SCALE: 1" = 1'-0"



9 SIGNAGE TYPE 'J'

SCALE: 1" = 1'-0"

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1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
A - 002	12/07/2022	ADDENDUM #002

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Signage Schedule & Details

F3.00

Plot Time Stamp: 5/8/2023 12:40:59 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - A21.rvt

GENERAL STRUCTURAL NOTES AND DESIGN CRITERIA

STRUCTURAL DESIGN CRITERIA

BUILDING CODE

International Building Code, 2018 Edition

VERTICAL LOADS

Use or Occupancy (2)	Dead Load (1)	Live Load (1)	
Roofs (2)	35 psf	30 psf	(3)(4)
Concrete Roofs (2)	60 psf	150 psf	(3)(4)

NOTES:

(1) Uniform load to be applied over the full tributary area of each structural member.
(2) See Framing Plans for concentrated loads from mechanical units, hoists and other equipment.
(3) Where applicable, drifting was considered.
(4) Where applicable, 5 psf for rain-on-snow is included.

ROOF SNOW LOADS

Ground Snow Load	P_g = 25 psf
Snow Exposure Factor	C_e = 1.0
Snow Load Importance Factor	I_s = 1.1
Thermal Factor	C_t = 1.0
Flat Roof Snow Load	P_f = 22 psf

DESIGN SOIL BEARING PRESSURES

Maximum Vertical Pressures	
Full Vertical Loads - Continuous Footings	2000 psf
Full Vertical Loads - Individual Footings	2000 psf

SEISMIC DESIGN FACTORS

Site Class Definition	D
Risk Category	III
Importance Factor	I_E = 1.25
Response Modification Coefficient	R = 3.25
Seismic Response Coefficient	C_s = .04
Mapped Spectral Response Accelerations	
Short Period Spectral Response Acceleration (0.2 seconds)	S_S = .08
1 Second Spectral Response Acceleration	S_1 = .042
Maximum Considered Spectral Response Accelerations	
Short Period Spectral Response Acceleration (0.2 seconds)	S_{MS} = .085
1 Second Spectral Response Acceleration	S_{D1} = .067
Seismic Design Category	
Short Period Response Acceleration	A
1 Second Response Acceleration	B
Analysis Procedure	Equivalent Lateral Force Procedure
Basic Seismic-Force-Resisting System	Ordinary Masonry Shear Walls Ordinary Steel Moment Frames Ordinary Braced Frames

WIND DESIGN FACTORS

Wind Speed Region	
Basic Design Wind Speed	V = 120 mph
Locker Room Design Wind Speed	V = 250 mph
Enclosure Classification	Enclosed
Exposure	C
Mean Roof Height	h = 15 ft

CONSTRUCTION PROCEDURES & SAFETY REQUIREMENTS

1. Comply with all applicable city, county, state and federal laws, including the occupational safety and health act (OSHA) and regulations adopted pursuant thereto.
2. The structural contract documents represent the finished structure. They do not indicate the means and methods of construction, unless noted or indicated otherwise.
3. Provide all measures necessary to protect the workers and all other persons during construction. Provide all necessary measures to avoid excessive stresses and to hold the structural elements in place during construction. Such measures shall include, but not be limited to: bracing, shoring for construction equipment, shoring for earth banks, forms, scaffolding, planking, safety nets, support and bracing for cranes and hoists, guying, etc...
4. Engage properly qualified persons to determine where and how temporary precautionary measures shall be used. Observation visits to the site by Structural Engineer's field representatives shall not include above noted items.
5. Supervise and direct the work so as to maintain sole responsibility for all construction means, methods, techniques, sequences, and procedures.

STRUCTURAL MATERIALS

CONCRETE

Compressive strength (strength of a standard 6" diameter x 12" cylinder at 28 days):

USE	REQUIRED STRENGTH
Footings	4500 psi
Grade Beams, Topping Slabs, Slabs-On-Grade, Mechanical Pads, Sitework	4500 psi

NOMINAL UNIT WEIGHT: 145 pcf for normal-weight concrete.
CEMENT: ASTM C150, type I or type III
AGGREGATE: ASTM C33, except provide 47B aggregate mix as defined by the State of Nebraska Department of Roads.
ADMIXTURES: As approved. Do not use any admixtures containing more than 0.1 percent chloride ions.
ENTRAINED AIR: 2% to 4% by volume in concrete not exposed to freezing or thawing that is leveled by a laser screed. See SPECIFICATIONS for remaining concrete work.

CONCRETE MASONRY UNITS

ASTM C90, nominal weight (125 pcf), f'cmu = 1900 psi (net area)

MASONRY MORTAR AND GROUT

MORTAR: ASTM C270 Type S, f'mortar = 1800 psi
GROUT: ASTM C476, f'g = 2000 psi

CONCRETE AND MASONRY REINFORCING

BARS: ASTM A615, deformed, grade 60 typical
WELDED WIRE MESH: ASTM A185, flat sheets
MASONRY JOINT REINFORCING: Standard ladder-type with 9 gage wires, wire to conform to ASTM A951, galvanized after fabrication

STRUCTURAL AND MISCELLANEOUS STEEL

W-SHAPES: ASTM A992, fy = 50,000 psi
M -SHAPES, S-SHAPES, HP-SHAPES, CHANNELS, ANGLES, AND PLATES UNLESS OTHERWISE SPECIFIED: ASTM A36, fy = 36,000 psi
STRUCTURAL TUBING UNLESS OTHERWISE SPECIFIED: ASTM A500 or A501, grade B, fy = 46,000 psi

PIPE: ASTM A53, Type E or S, grade B, fy = 35,000 psi

STEEL JOISTS

Steel Joist Institute: VS, K or LH Series
Bridging as required by the Steel Joist Institute

STEEL ROOF DECK

20 gage x 1.5" deep wide rib (type B), prime painted with nesting end laps and overlapping side laps.
Minimum positive moment section properties: I = 0.212 in4/ft, S = 0.234 in3/ft

ACOUSTICAL STEEL ROOF DECK

20 gage x 1.5" deep wide rib (type BA), prime painted with nesting end laps and overlapping side laps.
Minimum positive moment section properties: I = 0.212 in4/ft, S = 0.234 in3/ft

COLD-FORMED STRUCTURAL STEEL FRAMING

See GENERAL NOTES - COLD-FORMED STEEL on this Sheet for required section properties.

0.0538 INCH (54 MIL) AND HEAVIER MEMBERS: ASTM A1003, ST50H, fy = 50,000 psi
0.0428 INCH (43 MIL) AND LIGHTER MEMBERS: ASTM A1003, ST33H, fy = 33,000 psi

BOLTS AND NUTS

STEEL-TO-STEEL CONNECTIONS
Bolt-Nut-Washer Assemblies: ASTM F3125 Grade F1852N
Bolts: Type 1, heavy hexagonal head
Washers: ASTM F436, Type 1, hardened (at all slotted holes)
Nuts: ASTM A563, grade DH, heavy hexagonal
OTHER
Bolts: ASTM F3125 Grade A325N, grade A, hexagonal heads
Nuts: ASTM A563, grade DH, hexagonal

EXISTING CONDITIONS

1. The General Contractor shall verify all existing dimensions and conditions prior to commencement of the work. It shall be the Contractor's responsibility to coordinate the installation of the new work within the existing conditions. Any deviation in the existing conditions or dimensions indicated shall be coordinated with the Engineer/Architect in order to modify the plan accordingly.

EARTHWORK

1. GENERAL. Except at footings adjacent to existing construction, footings and slabs on grade shall be placed on engineered fill on prepared subgrade. Requirements for earthwork, including excavation, fill and backfill, unless specifically contained in these notes and the SPECIFICATIONS shall be in accordance with the current edition of the International Building Code.
2. SITE CLEARING. All vegetation and other organic matter, pavement, existing construction and man-made fill (except as otherwise directed), and any other unsuitable material shall be removed from site and properly disposed of.
3. EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing material as required to meet site grading elevations. Do not undercut existing construction. Provide positive surface drainage away from excavations and promptly remove any surface water which may enter the excavations. Remove any subgrade material and any previously placed fill or backfill which has been softened or otherwise damaged by moisture. Replace with properly placed and compacted fill or backfill. Slope sides of excavations as required for slope stability and provide barricades, lights and warning signs as necessary for the protection of existing property, construction personnel and the public.
4. PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleaned and grubbed, the subgrade shall be scarified, disced or otherwise loosened to a minimum depth of 6 inches, moistened or dried as necessary (to within -2 to +2 percentage points of optimum moisture content), and compacted to not less than 95% of maximum density as determined by ASTM D1557 or ASTM D698, whichever is applicable.
5. FILL AND BACKFILL. All fill and backfill material shall be clean, free of organic or frozen matter, and any other unsuitable material, and is to be approved by the Architect before use. Site material may be used if it meets the specified material property requirements. If site material does not meet the requirements, use imported materials or a uniform mix of site and imported materials which do meet the specified requirements. See the SPECIFICATIONS for gradation, plasticity index and other fill material requirements.
6. PLACING AND COMPACTION OF FILL AND BACKFILL. See the SPECIFICATIONS for compaction requirements for fill and backfill. Perform compaction when the material to be compacted is at its optimum moisture content (+2 or -2 percentage points). Thoroughly mix water into the soil mass to be compacted so the moisture content of the soil is uniform. Perform compaction using appropriate equipment and methods as necessary to achieve the required density percentages without damage to existing construction. Do not use ponding, flooding, jetting or similar methods to aid in compaction.
7. QUALITY CONTROL. Maximum densities and optimum moisture contents shall be determined in accordance with ASTM D1557 or ASTM D698, whichever is applicable. Density of in-place material shall be determined in accordance with either ASTM D1556 (sand cone method), D6938 (nuclear method) or D2167 (rubber balloon method), whichever is applicable. Gradations of materials shall be determined in accordance with ASTM D422. Liquid limits, plastic limits and plasticity indices shall be determined in accordance with ASTM D4318. See the SPECIFICATIONS for additional requirements and testing schedule.

STEEL

1. GENERAL. Unless otherwise shown or specified, perform all steel work in accordance with the applicable requirements of the International Building Code, the American Institute of Steel Construction (AISC) "Steel Construction Manual", the Steel Joist Institute (SJI) "Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders" and the Steel Deck Institute (SDI) "Design Manual for Floor and Roof Decks". If there should be conflicts among these documents, the provisions of the more restrictive shall govern.
2. MATERIALS. Material requirements for structural steel members are given in the STRUCTURAL MATERIALS section on this sheet.
3. THREADED FASTENERS. Except as specifically shown otherwise, use ASTM F1852N high strength tension control bolt-nut-washer assemblies with Type 1 heavy hexagonal head bolts and Grade DH heavy hexagonal nuts at all steel-to-steel connections. Provide hardened washers conforming to ASTM F436 Type 1 at all slotted holes. Provide anchor bolts fabricated from steel conforming to ASTM F 1554.
4. WEB CONNECTIONS. Except as otherwise shown, plates and structural tees used to connect webs of beams to columns shall be offset from column centerlines so that vertical centerplanes of beams and columns coincide.
5. HOLES. Holes in plates, structural tees and angles used for web connections shall be standard AISC short slots with long dimension of slot to be in the direction of the beam span. Holes in beams shall be standard round holes. Except as specifically shown otherwise in the Details and Sections, center to center spacing of slotted holes in the direction perpendicular to the long direction of the slot shall not be less than 3 inches except that holes in beam flanges perpendicular to direction of beam span shall be at standard gage. Other holes shall be spaced as shown. Provide AISC standard oversize holes in column base plates.
6. GROUT. Non-shrink grout beneath base plates shall be placed by the dry-pack method. Grout shall be placed after steel framing has been erected, leveled and plumbed and shall be allowed to cure for not less than 24 hours before additional loads are applied to the framing. Grout placed in adverse weather shall be protected from freezing or other damage and the curing time before the imposition of additional loads shall be increased as necessary to obtain strength equivalent to that which would be achieved if favorable curing conditions existed.
7. WELDING SCHEDULE. Unless otherwise shown, welds shall be in accordance with the following schedule. All welds scheduled are fillet welds.

CONNECTION	WELD
a. column to column base plate	1/4" all around
b. web connection plate to column	1/4" both sides of plate, both sides of column
c. web stiffener or end plate to beam	3/16" all around
d. open web steel joist to brg. pl. or bm.	1/8"x2" both sides of joist bearing seat
e. long span steel joist to brg. pl. or bm.	1/4"x4" both sides of joist bearing seat
f. perimeter angle to stud or joist	1/8" at each point of contact
g. perimeter angle to beam	3/16"x1" spaced at 12" on center

8. ROOF OPENINGS. Coordinate w/ Mechanical, Structural, & Architectural all openings through roof. All openings with an area over 36" square must be supported as shown in the Structural Details.

CONCRETE MASONRY

1. GENERAL. Except as otherwise shown or specified construct masonry in accordance with the requirements for low-lift grouted construction for reinforced hollow unit masonry contained in the current edition of the International Building Code and comply with TMS 602/ACI 530.1/ASCE 6 "Specifications for Masonry Structures" (see SPECIFICATIONS for excluded sections). Special inspection as defined in the International Building Code is not required for this project
2. MASONRY UNITS. Except as otherwise shown provide concrete masonry units with manufacturer's standard finishes and colors at all locations, including construction below grade, where masonry will not be exposed to view after construction is complete. In other locations provide units with surface textures and colors as indicated on the Architectural drawings.
3. BONDING. Except as otherwise shown, lay masonry with vertical joints between units in each course to be placed midway between the vertical joints in the course below (half running bond). Lay units using face shell bedded head and bed joints.
4. VERTICAL REINFORCING
   a. 6 and 8 inch thick (nominal) walls. #5 at 32 inches on center in typical runs, #5 at 8 inches on center at corners, intersections, ends of walls, control joints and other discontinuities as shown in the details, unless noted otherwise. Provide additional reinforcing as shown in the Foundation and Framing Sections. Vertical reinforcing shall be continuous from support to support.
   b. 10 and 12 inch thick (nominal) walls. #5 at 24 inches on center in typical runs, #5 at 8 inches on center at corners, intersections, ends of walls, control joints and other discontinuities as shown in the details, unless noted otherwise. Provide additional reinforcing as shown in the Foundation and Framing Sections. Vertical reinforcing shall be continuous from support to support.
5. WALLS. All masonry walls shall bear on a continuous reinforced concrete footing.
6. HORIZONTAL REINFORCING
   a. Bond beams. Provide bond beams with 1 - #5 continuous horizontal bar in 6 and 8 inch walls and 2 - #5 continuous horizontal bars in 10 and 12 inch walls at joist and beam bearing elevations, at tops of walls, structurally connected roof and floor levels, in the top of the foundations when doweled into walls and at other locations shown on the drawings. Step bond beams as required to follow the slope of the roof along nonbearing walls. Steps shall not be more than 8 inches in height and bond beams shall be overlapped not less than 32 inches at steps. Lap bars not less than 24 inches and maintain continuity at corners and intersections by providing corner bars.
   b. Joint Reinforcing. Provide masonry joint reinforcing of the type specified at 16 inches on center (every other course) for the full height of the wall. At corners and intersections, provide prefabricated items to maintain continuity. Lap reinforcing not less than 12 inches in straight runs.
7. LINTEL BEAMS. All openings in masonry greater than 24" wide shall have a steel or bond beam lintel. See framing plans and sections for locations and designations of lintel beams. See schedule, notes and details for size and other requirements.
8. OPENINGS AND RECESSES. All openings and recesses larger than 8 inches square shall be built into masonry work as it progresses and shall not be cut in after work is completed. Locations and sizes of masonry openings not shown on the Structural Drawings shall be confirmed with the Architect before construction. Except as specifically shown otherwise there shall be not less than 16 inches of full thickness masonry construction between adjacent openings or recesses in masonry. Horizontal wall reinforcement of not less than 1 - #4 bar shall be provided at the bottom and top of wall openings and shall extend not less than 24 inches or less than 40 bar diameters past the opening.
9. ANCHOR BOLTS AND EXPANSION ANCHORS. Drilled-in expansion anchors shall not be used except where specifically shown on the Drawings. Anchor bolts and expansion anchors shall be firmly anchored in grout with both the cell containing the anchor and the cell below grouted solid. Where anchors are uniformly spaced, the first and last anchors shall be spaced at not more than half the typical spacing nor 16 inches form the end of a wall or beam.
10. CONTROL JOINTS. Control joints in masonry walls shall be located where shown on the Elevations or if not shown, at intervals not to exceed 16 feet on center, locations to be submitted by the Architect. Do not begin masonry construction until locations of masonry control joints have been approved. Horizontal reinforcing in masonry walls shall be stopped at control joints except at bond beams at joist bearings. Provide additional reinforcing at each side of the control joint as shown.
11. GROUT. All cells containing reinforcing shall be grouted solid. Grout shall be placed using the low-lift grouting method. Before grouting clean cells and cavities to be grouted of all trash, mortar droppings and fins and standing water. Grout lifts and free fall of grout in concrete masonry construction shall not exceed 4 feet. Except at the tops of walls, shear keys shall be provided at the top course of all cells and or cavities containing vertical reinforcing by stopping the grout pour at mid height of the top course being grouted. All cells below grade shall be grouted in one lift with no construction joints permitted. Mortar shall not be used as grout.
12. STEEL BEAM BEARING
   a. Beams with both ends bearing on cmu. A slip connection shall be provided at one end of beam. Both ends of beam shall not be welded. Contact Engineer of Record for requirements unless otherwise noted.
   b. Beams with one end bearing on cmu and other end connected to steel. A slip connection shall be provided at masonry bearing. Contact Engineer of Record for requirements unless otherwise noted.
   c. Beams weighing 40 plf or less. At 8" cmu walls, unless otherwise noted, provide a 3/8" x 6" x 8" bearing plate with 2 - 1/2" diameter headed studs at 4" on center each way. At 12" cmu walls, unless otherwise noted, provide a 3/8" x 8" x 10" bearing plate with 4 - 1/2" diameter headed studs at 4" on center each way. Plates shall bear on 2 cells grouted solid, (full height) centered beneath plate, reinforce 8" cells with 1 - #5 vertical and 12" cells with 2 - #5's vertical, unless noted otherwise.
   d. Beams weighing more than 40 plf. Contact Engineer of Record for bearing plate requirements.

COLD-FORMED STEEL

1. GENERAL. Unless otherwise shown or specified, conform to the requirements of the American Iron and Steel Institute (AISI) "Cold-Formed Structural Steel Design Manual." Stud and track profiles shall be standard sections detailed in the Steel Stud Manufacturers Association's (SSMA) "Product Technical Guide."

   Size Designation: [Depth (1/100 inch)][Type: S=Stud, T=Track][Width (1/100 inch)]-[Thickness (Mil)]
   Example: 600S162-54 = 6 inch deep Stud w/ 1 5/8" wide flange x 54 mils thick
2. MEMBER SECTION PROPERTIES. Except as otherwise shown, cold-formed steel structural framing members shall have the following minimum section properties. All flanges of joists and studs shall be a minimum of 1-5/8" wide. See the STRUCTURAL MATERIALS section on this sheet for required material properties.
   a. 600S162-54 "cee" studs/joists
      A = 0.556 in2, Ixe = 2.860 in4
   b. 600T125-54 deep leg tracks (minimum depth = 1 1/4")
      A = 0.480 in2, Iy = 0.054 in4, Ixe = 2.241 in4
3. CONNECTIONS. Make all connections (except as specifically shown otherwise) by welding or with screw attachments. Welding shall be performed by welders currently certified and using welding processes approved by the American Welding Society (AWS) and the American Iron and Steel Institute (AISI). See connection schedules below.
   a. Connections at all non-load-bearing steel framing to building structure attachments shall be capable of accommodating 1 1/2" (min.) downward vertical deflection without transferring vertical loads.
4. ANCHORAGE TO CONCRETE. 1" long (minimum) power driven fasteners spaced at 16" on center unless specifically noted otherwise. Minimum working load shear capacity of each fastener = 225 pounds (ß to 1 safety factor).
5. STUD SPACING. Typical stud spacing: 16 inches on center. Provide and install double studs at corners, intersections, jambs of openings, centered beneath joists and as otherwise shown.
6. LATERAL SUPPORT. Follow manufacturer's recommendations or Specification requirements for wall bridging and bracing, whichever are most restrictive. At exterior fascias/canopies, follow manufacturer's instructions for walls subject to both axial load and bending.
7. LINTEL BEAMS. Unless otherwise designed by qualified professional engineer, typical lintels shall be constructed per Exterior Framing Steel Stud Header Schedule. Typical lintels (over openings 6'-0" wide, or less) shall be constructed of two 6"x54 mil unpunched joists (6" dimension vertical) with 54 mil thick tracks (width of track equal to width of wall) top and bottom unless otherwise shown. All 54 mil or heavier built-up steel stud lintels shall be constructed of unpunched joists. Lintels shall bear on a jack stud at each end with at least one full-height king stud at ends of lintel.
8. WELDING SCHEDULE. Unless otherwise noted, welding of cold-formed steel framing shall be in accordance with the following schedule. All welds scheduled are fillet welds. Except where specific weld lengths are given, welds are to be placed along the full length of the members being joined.

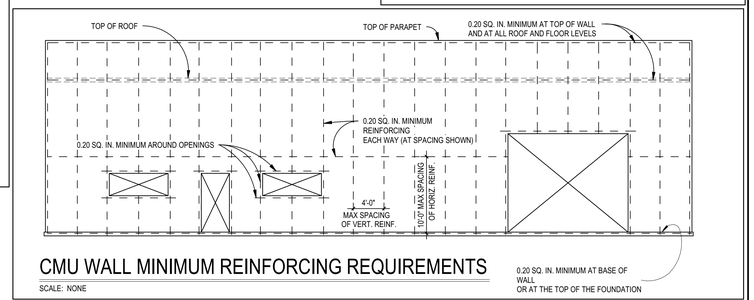
CONNECTION	WELD
a. stud to track	1/8" both flanges
b. track to beam	1/8" x 1" @ 12" on center both flanges
c. stud to plate or beam	1/8"
d. bridging or bracing to stud	1/8"
e. angle on top of bearing wall to track	1/8" top and bottom
f. multiple studs or joists	1/8" x 1" @ 24" on centers each side each pair of members
g. 2x top plate to steel stud track	1/2" dia. A325 through bolts @ 32" o.c.

9. SCREW ATTACHMENT SCHEDULE. Unless otherwise noted, screwing of cold-formed steel framing shall be in accordance with the following schedule. All screws scheduled are self-drilling unless noted otherwise. Screws with low profile heads shall be used at locations to be finished with drywall.

CONNECTION	SCREWS
a. stud to track	2 - #10 both flanges
b. track to beam	2 - #12 @ 16" on center (self-drilling, self-tapping)
c. stud to plate or beam	2" x 54 mil clip angle w/ 2 - #10 each leg of clip angle
d. bridging or bracing to stud	2" x 54 mil clip angle w/ 2 - #10 each leg of clip angle
e. angle on top of bearing wall to track	#10 - each stude (self-drilling, self- tapping)
f. multiple studs or joists	2" x.54 mil flat strap w/ #10 each stud @ 24" o.c., each side

CONCRETE

1. GENERAL. Unless otherwise shown or specified, supply and construct concrete in accordance with ACI 318" Building Code Requirements for Structural Concrete" and ACI 301 "Specifications for Structural Concrete for Buildings". Except as otherwise shown, detail reinforcing in accordance with the latest edition of the Concrete Reinforcing Steel Institute (CRSI) Placing Manual.
2. REINFORCING. Hooks in reinforcing which are not otherwise detailed shall be standard ACI hooks. Splices in reinforcing which are not otherwise detailed shall be standard ACI Class B tension lap splices, but splice length shall not be less than 24 inches.
3. PLACEMENT OF REINFORCING AND OTHER ITEMS. Reinforcing, dowels, bolts and any other inserts shall be fastened securely into position before concrete is placed. Drilled-in expansion anchors shall not be used except where specifically shown on the drawings. The spacings shown for reinforcing and other anchorage items are maximums. Provide and install a sufficient number of items so that the spacings shown are not exceeded. The first and last items in a group of uniformly spaced items shall be located at not more than one-half the typical spacing nor 12 inches from the end of a structural element.
4. CONTINUITY OF HORIZONTAL REINFORCEMENT
   a. Footings, walls, turned-down slab edges: Bars shall be lapped not less than 36 bar diameters nor 24 inches. Except where bar lengths are given, reinforcing is to be continuous for the full length or width of member between less required concrete covers. Do not splice transverse bars at footings. Additional reinforcing shall be provided at corners, intersections and other discontinuities as shown on the Drawings.
   b. Grade beams & continuous footings that run over the top of (or are integral with) pad footings shall have reinforcing that is continuous over (or through) the pad footings.
   c. Concrete slabs-on-grade: Welded wire mesh shall be lapped not less than one mesh nor 6 inches on all sides.
   d. Elevated slabs and beams: No splices except as shown or where approved by EOR.
5. CONSTRUCTION JOINTS
   a. Slabs-on-grade: Control joints shall be located at 10'-0" on center each way maximum unless otherwise noted on drawings or as otherwise approved by the Architect.
   b. Footings, walls, turned-down slabs: Construction joints shall be placed at locations to be selected by the Contractor subject to the following restrictions. There shall be no construction joints within 5 feet of any corner or intersection. Construction joints in walls shall be offset from construction joints in footings by not less than 5 feet. Splices in reinforcing shall not be located within 5 feet of any construction joint in the concrete. Horizontal and vertical keyways not less than 2 inches deep by 4 inches wide shall be provided at all construction joints in walls and footings.
   c. Elevated slabs: Not permitted except as shown or where approved by EOR.
   d. Beams: Locate construction joints within the middle third of interior spans. Joints are not permitted in end spans. Reinforcing is not to be continuous through joints and reinforcing is not to be spliced within 5 feet of joints. Provide additional reinforcing as shown in the Typical Beam Construction Joint Detail.
   e. Columns: Construction joints are permitted only at tops of footings and above and below beams except as otherwise shown.
6. EMBEDDED PIPES AND CONDUITS. No pipes, conduits or any other items used by other trades except those shown on the Structural Drawings shall be embedded in concrete or pass through concrete members without the prior approval of the Architect/Engineer. See the SPECIFICATIONS for additional requirements.
7. CONCRETE COVER. Provide concrete cover over reinforcing as noted below. Tolerance on position of reinforcing is plus or minus 3/8".
   a. Concrete cast against and permanently exposed to earth: 3 inches
   b. Concrete cast in forms but exposed to earth or weather in service: 2 inches.
   c. Concrete cast in forms but not exposed to earth or weather:
      1) Walls and slabs: 1 inch
      2) Beams and columns
         i) primary reinforcement: 2 inches
         i) ties and stirrups: 1 1/2 inches
8. EXTERIOR FOOTINGS. The bottom of all exterior footings shall not be less than 42 inches below the lowest adjacent finished grade.



CMU WALL MINIMUM REINFORCING REQUIREMENTS

SCALE: NONE

SCHEDULE OF REQUIRED SPECIAL INSPECTIONS

Note:
All Special Structural Inspections shall be provided by the Owner, per IBC 2018, Chapter 17

STEEL CONSTRUCTION - IBC SECTION 1705.2

VERIFICATION & INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD[1]	IBC REFERENCE	REQUIRED
1. Special inspection for structural steel shall be in accordance with the quality assurance inspection requirements of AISC 360 Chapter N P = Perform for each welded joint or members, for each bolted connection and for each steel element O = Observe items on a random basis. Operations need not be delayed pending these inspections.	---	---	AISC 360: Chapter N	---	---
a. Material verification of structural steel shall comply with the requirements of Section 6.1 of the Code of Standard Practice	---	---	Section 6.1 of Code of Standard Practice	---	---
b. Welding, high-strength bolting and details in accordance with Section N5	---	---	AISC 360 Section N5	---	---
c. Steel deck and headed stud anchor placement and attachment in accordance with Section N6	---	---	AISC 360 Section N6	---	---
d. Cut surfaces in accordance with Section M2.2	---	---	AISC 360 Section M2.2	---	---
e. Heating for straightening in accordance with Section M2.1	---	---	AISC 360 Section M2.1	---	---
f. Tolerances for field erection in accordance with Section 7.13 of the Code of Standard Practice	---	---	Section 7.13 of Code of Standard Practice	---	---
2. Inspection for maintenance of specified curing temperature and techniques	---	---	---	---	---
a. Identification markings to conform to ASTM standards specified in the approved construction documents	---	✓	Applicable ASTM material standards	---	---
b. Manufacturer's certified test reports	---	✓	---	---	---
3. Inspection of welding	---	---	---	---	---
a. Cold-formed steel deck	---	---	---	---	---
1) Floor and roof deck welds	---	✓	AWS D1.3, SDI QA/QC	---	---
b. Reinforcing Steel	---	---	---	---	---
1) Verification of weldability of reinforcing steel other than ASTM A 706	---	✓	AWS D1.4 ACI 318: SECTION 26.6.4	---	---
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement	---	✓		---	---
3) Shear reinforcing steel	---	---		---	---
4) Other reinforcing steel	---	✓		---	---
4. Cold-formed steel trusses spanning 60 feet or greater	---	---	---	---	---

[1] Where applicable, see also Section 1705.12, Special Inspection for seismic resistance

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS - IBC SECTION 1705.2.3

VERIFICATION & INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD[1]	IBC REFERENCE	REQUIRED
1. Open-web steel joists and joist girders	---	---	---	1705.2.3	---
a. End connections - welding or bolted	---	✓	SJI spec's listed in Section 2207.1	---	---
b. Bridging - horizontal or diagonal	---	---	---	---	---
1) Standard bridging	---	✓	SJI spec's listed in Section 2207.1	---	---
1) Bridging that differs from the SJI specifications listed in Section 2207.1	---	✓	---	---	---

[1] Where applicable, see also Section 1705.12, Special Inspection for seismic resistance

CONCRETE CONSTRUCTION - IBC SECTION 1705.3

VERIFICATION & INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD[1]	IBC REFERENCE	REQUIRED
1. Inspect reinforcement, including prestressing tendons, and verify placement	---	✓	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	---
2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum 5/16"; and c. Inspect all other welds	--- --- ✓	✓ ✓ ---	AWS D1.4 ACI 318: 26.6.4	---	---
3. Inspect anchors cast in concrete	---	✓	ACI 318: 17.8.2	---	---
4. Inspect anchors post-installed in hardened concrete members [2] a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads b. Mechanical anchors and adhesive anchors not defined in 4.a	✓ ---	--- ✓	ACI 318: 17.8.2.4 ACI 318: 17.8.2	---	---
5. Verifying use of required design mix	---	✓	ACI 318 Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	---
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	✓	---	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10	---
7. Inspect concrete and shotcrete placement for proper application techniques	✓	---	ACI 318: 26.5	1908.6, 1908.7, 1908.8	---
8. Verify maintenance of specified curing temperature and techniques	---	✓	ACI 318: 26.5.3 - 26.5.5	1908.9	---
9. Inspection of prestressed concrete: a. Application of prestressing forces b. Grouting of bonded prestressing tendons	✓ ✓	--- ---	ACI 318: 26.10	---	--- ---
10. Inspect erection of precast concrete members	---	✓	ACI 318: Ch. 19	---	---
11. Verify in-situ (on-site) concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	---	✓	ACI 318: 26.11.2	---	---
12. Inspect formwork for shape, location and dimensions of the concrete member being formed	---	✓	ACI 318: 26.11.1.2 (b)	---	---
13. Note Exceptions 1,2,3,4, and 5 in Section 1704 discussing footings for building three stories or less, nonstructural slabs, foundations and certain exterior concrete features when placed on grade. Check here if Special Inspections for Concrete not required due to these exceptions			---	---	---

For SI: 1 inch = 25.4 mm

[1] Where applicable, see also Section 1705.12, Special Inspection for seismic resistance
[2] Specific requirements for special inspections shall be included in the research report for the anchor issued by 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 work.

MASONRY CONSTRUCTION - IBC SECTION 1705.4

VERIFICATION & INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD[1]	IBC REFERENCE	REQUIRED
1. Level A - Minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with Part 4 or Appendix A	---	---	ACI 530.1 Table 3.1.1	---	---
2. Level B	---	---	---	---	---
Minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with chapters other than those in Part 4 or Appendix A	---	---	ACI 530.1 Table 3.1.2	---	---
Minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with Chapter 12 or 13	---	---	ACI 530.1 Table 3.1.2	---	---
3. Level C - Minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with chapters other than those in Part 4 or Appendix A	---	---	ACI 530.1 Table 3.1.3	---	---
4. Vertical Masonry Foundation Elements shall be inspected in accordance with IBC Section 1705.4	---	---	---	---	---

[1] Where applicable, see also Section 1705.12, Special Inspection for seismic resistance

SOILS - IBC SECTION 1705.6

VERIFICATION & INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD[1]	IBC REFERENCE	REQUIRED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	---	✓	---	---	---
2. Verify excavations are extended to proper depth and have reached proper material	---	✓	---	---	---
3. Perform classification and testing of compacted fill materials	---	✓	---	---	---
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	✓	---	---	---	---
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly	---	✓	---	---	---

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

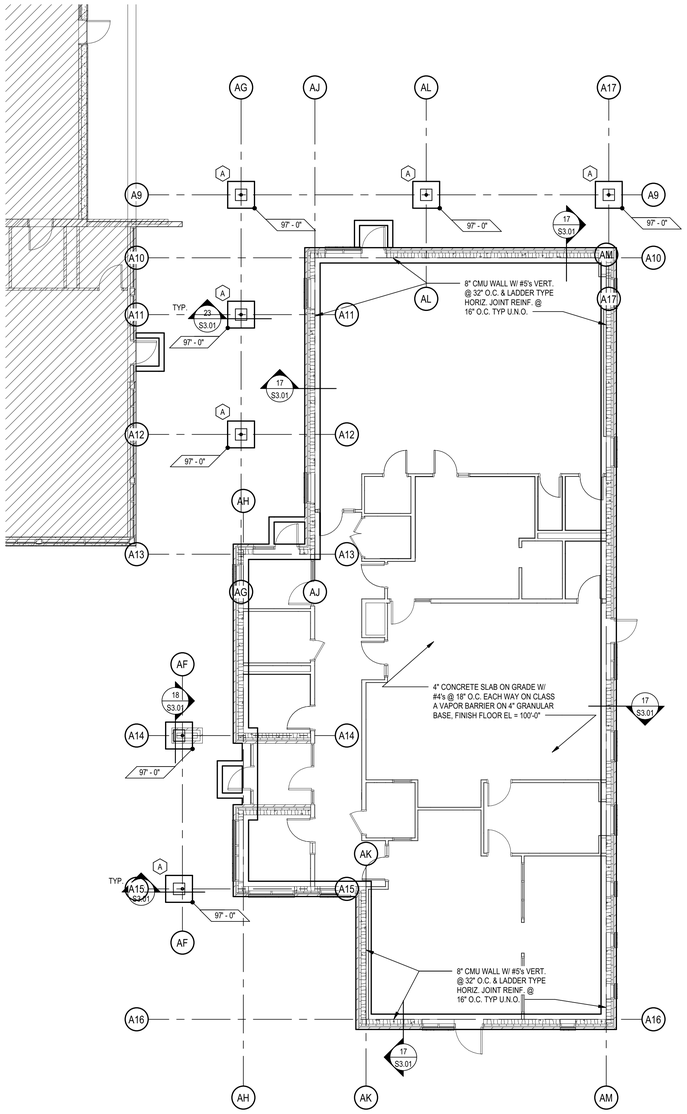
November 18, 2022

DRAFT

PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

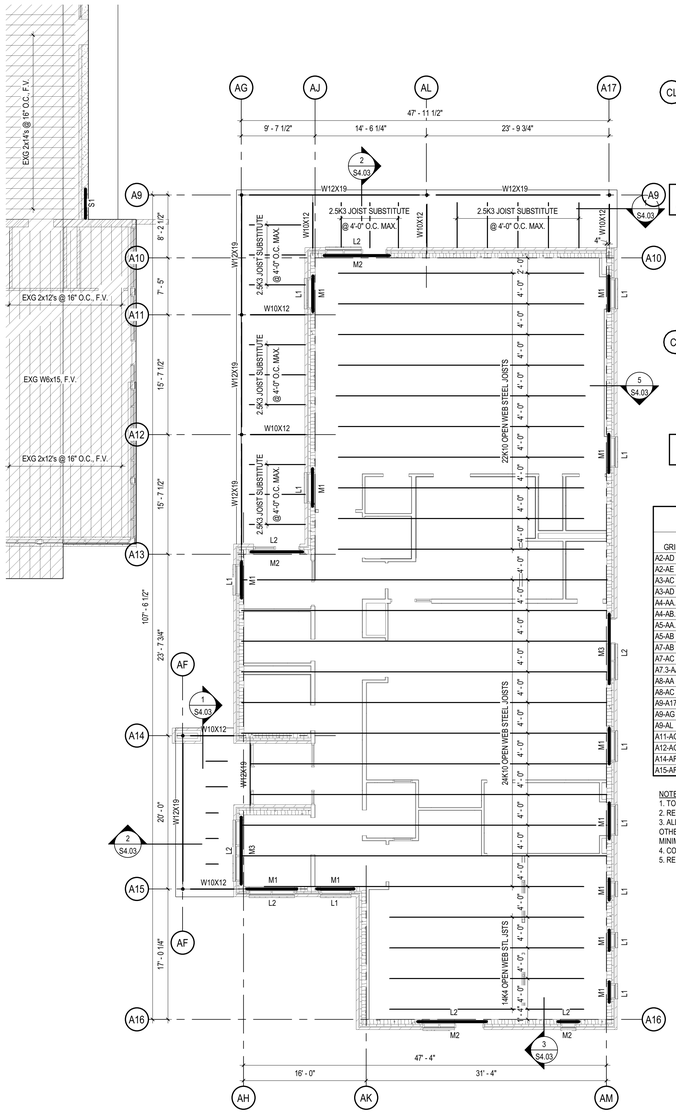
Structural Notes

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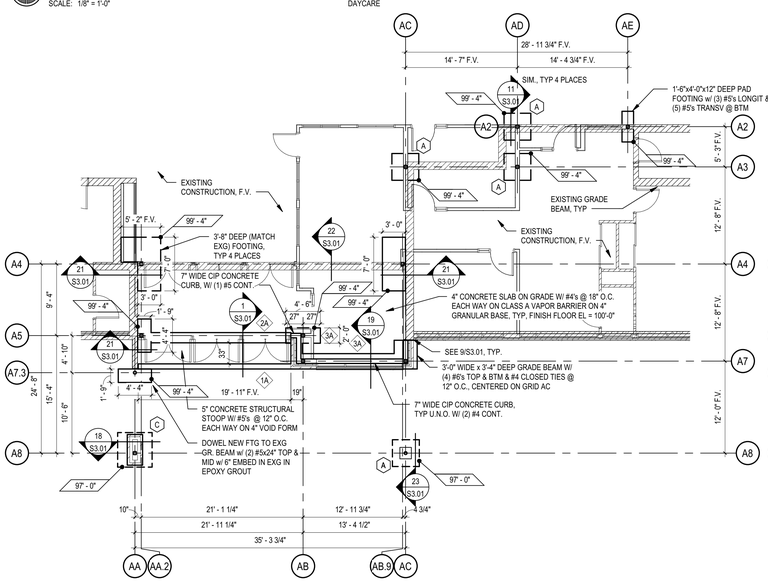
PARTIAL FOUNDATION PLAN - AREA A

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



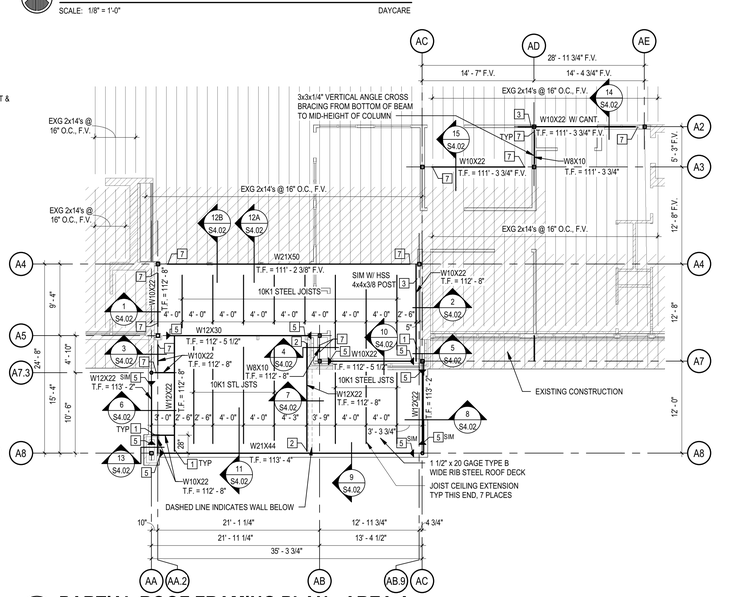
PARTIAL ROOF FRAMING PLAN - AREA A

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



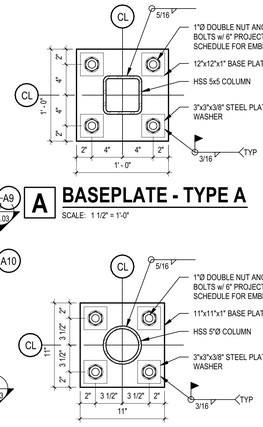
PARTIAL FOUNDATION PLAN - AREA A

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



PARTIAL ROOF FRAMING PLAN - AREA A

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



A BASEPLATE - TYPE A

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

B BASEPLATE - TYPE B

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

COLUMN SCHEDULE - AREA A

GRID	SIZE	BASE PLATE	B.O. BASE PLATE ELEVATION	ANCHOR BOLT EMBEDMENT	REMARKS
A2-AD	HSS5X5X3/8	TYPE A	99'-6"		
A2-AE	HSS5X5X3/8	TYPE A	99'-6"		
A3-AC	HSS5X5X3/8	TYPE A	99'-6"		
A3-AD	HSS5X5X3/8	TYPE A	99'-6"		
A4-AA.2	HSS5X5X3/8	TYPE A	99'-6"		BASE PLATE IS SIMILAR
A4-AB.9	HSS5X5X3/8	TYPE A	99'-6"		BASE PLATE IS SIMILAR
A5-AA.2	HSS5X5X3/8	TYPE A	99'-6"		BASE PLATE IS SIMILAR
A5-AB	HSS5X5X3/8	TYPE A	99'-6"		
A7-AB	HSS5X5X3/8	TYPE A	99'-6"		
A7-AC	HSS5X5X3/8	TYPE A	99'-6"		
A7.3-AA	HSS5X0.375	TYPE A	99'-6"		
A8-AA	HSS5X5X3/8	TYPE A	99'-6"	12"	
A8-AC	HSS5X0.375	TYPE B	97'-2"	9"	GALVANIZE
A9-A17	HSS4X0.250				
A9-AG	HSS4X0.250				
A9-AL	HSS4X0.250				
A11-AG	HSS4X0.250				
A12-AG	HSS4X0.250				
A14-AF	HSS4X0.250				
A15-AF	HSS4X0.250				

NOTES:
1. TOP OF COLUMN ELEVATION SHALL EQUAL BOTTOM OF BEAM ELEVATION UNLESS NOTED OTHERWISE.
2. REFER TO THIS SHEET FOR BASE PLATE DETAILS.
3. ALL COLUMNS SHALL HAVE A CAP PLATE. PLATE SHALL BE SAME SIZE AND THICKNESS AS COLUMN (UNLESS NOTED OTHERWISE) AND SHALL BE SINGLE BEVEL GROOVE WELDED ALL AROUND. CAP PLATE THICKNESS SHALL BE 1/4" MINIMUM AT NON-BRACED FRAME & NON-FIXED CONNECTION LOCATIONS.
4. COAT ALL BELOW GRADE STEEL INCLUDING BASE PLATE & ANCHOR BOLTS HEAVILY WITH ASPHALTIC MASTIC.
5. REFER TO THIS SHEET FOR SHEAR LUG DETAILS.

PAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
A	3'-6"	3'-6"	1'-0"	(5) #5's EACH WAY @ BOTTOM
B	4'-0"	4'-0"	1'-0"	(6) #5's EACH WAY @ BOTTOM
C	4'-6"	4'-6"	1'-0"	(6) #5's EACH WAY @ BOTTOM
D	6'-10"	3'-6"	1'-0"	(6) #4's EACH WAY @ BOTTOM
E	6'-6"	6'-6"	1'-0"	(7) #5's EACH WAY @ BOTTOM
F	6'-0"	6'-0"	1'-0"	(7) #5's EACH WAY @ BOTTOM
G	9'-0 1/4"	5'-0"	1'-0"	(10) #5's SHOT (6) #5's LONG @ BOTTOM

CONT. FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
C-1	1'-6"	1'-0"	(2) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-2	2'-0"	1'-0"	(3) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-2A	2'-6"	1'-0"	(3) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-3	3'-6"	1'-0"	(5) #5's LONGIT. & #5's @ 12" O.C. TRANS.

GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
1A	8"	3'-4"	(1) #5 TOP & BOTTOM & #4's VERTICAL @ 24" O.C.
2A	1'-4"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
2B	1'-6"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3A	2'-0"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3B	2'-6"	3'-4"	(3) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
4A	3'-6"	3'-4"	(6) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.

GENERAL FOUNDATION NOTES:

1. SEE GEOTECHNICAL ENGINEERING REPORT PREPARED BY MID-STATE ENGINEERING & TESTING, DATED AUGUST 10, 2022, AND SPECIFICATIONS FOR EARTHWORK AND FOUNDATION PREPARATION REQUIREMENTS. ALL RECOMMENDATIONS GIVEN SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENT SET.

2. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THE NEW WORK WITHIN THE EXISTING CONDITIONS. ANY DEVIATION IN THE EXISTING CONDITIONS OR DIMENSIONS INDICATED SHALL BE COORDINATED WITH THE ENGINEER/ARCHITECT IN ORDER TO MODIFY THE PLAN ACCORDINGLY.

3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

4. INDICATES TOP OF FOOTING ELEVATION.

5. INDICATES ESTIMATED TOP OF FOOTING ELEVATION. BOTTOM OF FOOTING SHALL MATCH BOTTOM OF EXISTING FOUNDATION. FIELD VERIFY EXISTING CONDITION.

6. INDICATES TOP OF EXISTING FOOTING ELEVATION.

7. INDICATES STEP IN THE FOUNDATION ELEVATION. SEE DETAILS #5 & 7 ON SHEET S3.01.

8. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH PILASTER PAD FOOTINGS.

9. BEFORE STARTING GRADING AND EXCAVATION, ESTABLISH THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA. EXERCISE CARE TO PROTECT EXISTING UTILITIES DURING EARTHWORK OPERATIONS. PERFORM EXCAVATION WORK NEAR UTILITIES BY HAND AND PROVIDE NECESSARY SHORING AND SUPPORTS AS THE WORK PROGRESSES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EXISTING UNDERGROUND UTILITIES. SEE MECHANICAL AND CIVIL/LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATIONS OF EXISTING UTILITIES.

10. INDICATES DIRECTION OF STRUCTURAL SLAB SPAN.

11. ALL EXTERIOR EDGES OF GRADE BEAMS ARE TO LINE UP WITH THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.

12. ON THE FOOTING AND FOUNDATION PLAN, REFER TO VERBIAGE FOR FOOTING SIZES. DO NOT SCALE.

13. SLOPE SLAB TO DRAINS WHERE INDICATED IN THE ARCHITECTURAL DRAWINGS.

14. A 4" THICK GRANULAR BASE LAYER UNDER CLASS A VAPOR BARRIER UNDER THE NEW 4" CONCRETE SLAB ON GRADE IS DETAILED THROUGHOUT THIS SET OF CONSTRUCTION DOCUMENTS. IF THE FLOORING MANUFACTURER (S) RECOMMEND A THICKER LAYER OF GRANULAR MATERIAL OR A MORE STRINGENT TYPE OF VAPOR BARRIER, THEN THEIR RECOMMENDATIONS SHALL BE FOLLOWED. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR TO COORDINATE.

15. AT ALL RE-ENTRANT CORNERS IN THE SLAB, PLACE 2-#3 x 2'-6" LONG DOWELS @ 2" O.C. LOCATE BARS AT MID-DEPTH IN THE SLAB, TYPICAL.

16. SEE DETAIL #8/S3.01 FOR MECHANICAL EQUIPMENT BASE DETAIL. SEE SHEET ARCHITECTURAL & MECHANICAL SHEETS FOR EXACT LOCATIONS OF EQUIPMENT BASES.

GENERAL FRAMING NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THE NEW WORK WITHIN THE EXISTING CONDITIONS. ANY DEVIATION IN THE EXISTING CONDITIONS OR DIMENSIONS INDICATED SHALL BE COORDINATED WITH THE ENGINEER / ARCHITECT IN ORDER TO MODIFY THE PLAN ACCORDINGLY.

2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

3. BOXES WITH NUMBERS AT BEAM CONNECTIONS INDICATE CONNECTION TYPE. SEE DETAILS ON SHEET S4.01

4. SEE SHEET G0.10 (CODE COMPLIANCE SHEET) FOR STEEL FIREPROOFING REQUIREMENTS, IF REQUIRED.

5. DECK ATTACHMENT (1 1/2" - 20 GA - TYPE B ROOF DECK): ATTACH DECK TO SUPPORTING MEMBERS PERPENDICULAR TO SPAN OF DECK W/ 5/8"Ø PUDDLE WELDS AT ALL END LAP VALLEYS, IN SIDE LAP VALLEYS BETWEEN DECK UNITS AND ALL VALLEYS BETWEEN. AT SUPPORTING MEMBERS PARALLEL TO DECK SPAN, PLACE WELDS AT 12" O.C., MAXIMUM. ATTACH DECK UNITS TO EACH OTHER WITH #10 SELF-DRILLING, SELF-TAPPING SCREWS @ 12" O.C., MAXIMUM.

6. MECHANICAL UNITS: APPROXIMATE WEIGHT & LOCATION OF UNITS ARE SHOWN. IF ACTUAL WEIGHT OF UNIT IS 10% MORE THAN WEIGHT NOTED, CONTACT ENGINEER PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION W/ MECHANICAL.

7. ALL OPENINGS THROUGH ROOF SHALL BE COORDINATED (EXACT LOCATION AND SIZES) WITH MECHANICAL.

8. PROVIDE JOIST BRIDGING AS REQUIRED BY THE STEEL JOIST INSTITUTE. NET UPLIFT FOR ALL ROOF AREAS = 10 PSF.

9. PROVIDE 4x4x1/4"x CONTINUOUS ANGLE AT DECK PERIMETER AT EACH LEVEL (UNLESS DETAILED OTHERWISE) FOR DECK BEARING. PROVIDE HSS 2.5x2.5x3/16" WELDED TO WIDE FLANGE BEAM TOP FLANGE AS REQUIRED FOR DECK SUPPORT.

10. PROVIDE SUPPORT AROUND ALL PENETRATIONS THROUGH THE ROOF DECK. SEE DETAILS #C, D, & E/S4.01. GENERAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS & SIZES.

11. JOIST BRIDGING IS NOT INTENDED TO BE CUT OR ALTERED IN ANY MANNER. IF MODIFICATIONS ARE REQUIRED TO ALLOW FOR THE INSTALLATION OF OTHER BUILDING COMPONENTS, CONTRACTOR IS RESPONSIBLE FOR CONTACTING JOIST SUPPLIER FOR WRITTEN APPROVAL & ALTERNATE DETAIL TO MAINTAIN THE CONTINUITY OF THE BRIDGING. ENGINEER / ARCHITECT SHALL BE COPIED ON ALL SUCH CORRESPONDENCE.

12. LX OR MX INDICATES LINTEL. SEE S5.01 FOR LINTEL SCHEDULE.

13. AREA C. STRUCTURE INCLUDING: WALLS, WINDOWS, DOORS AND ROOF BOUNDED BY GRIDS CG, CH, C2 AND C3 SHALL BE DESIGNED USING THE CRITERIA SET FORTH IN CHAPTER 3 OF ICC 500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS, WITH A DESIGN WIND SPEED = 250 mph. COMPOSITE JOISTS SHALL BE DESIGNED TO WITHSTAND AN UPLIFT LOAD OF 210 psf.

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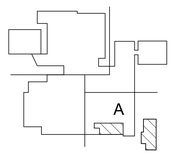
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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

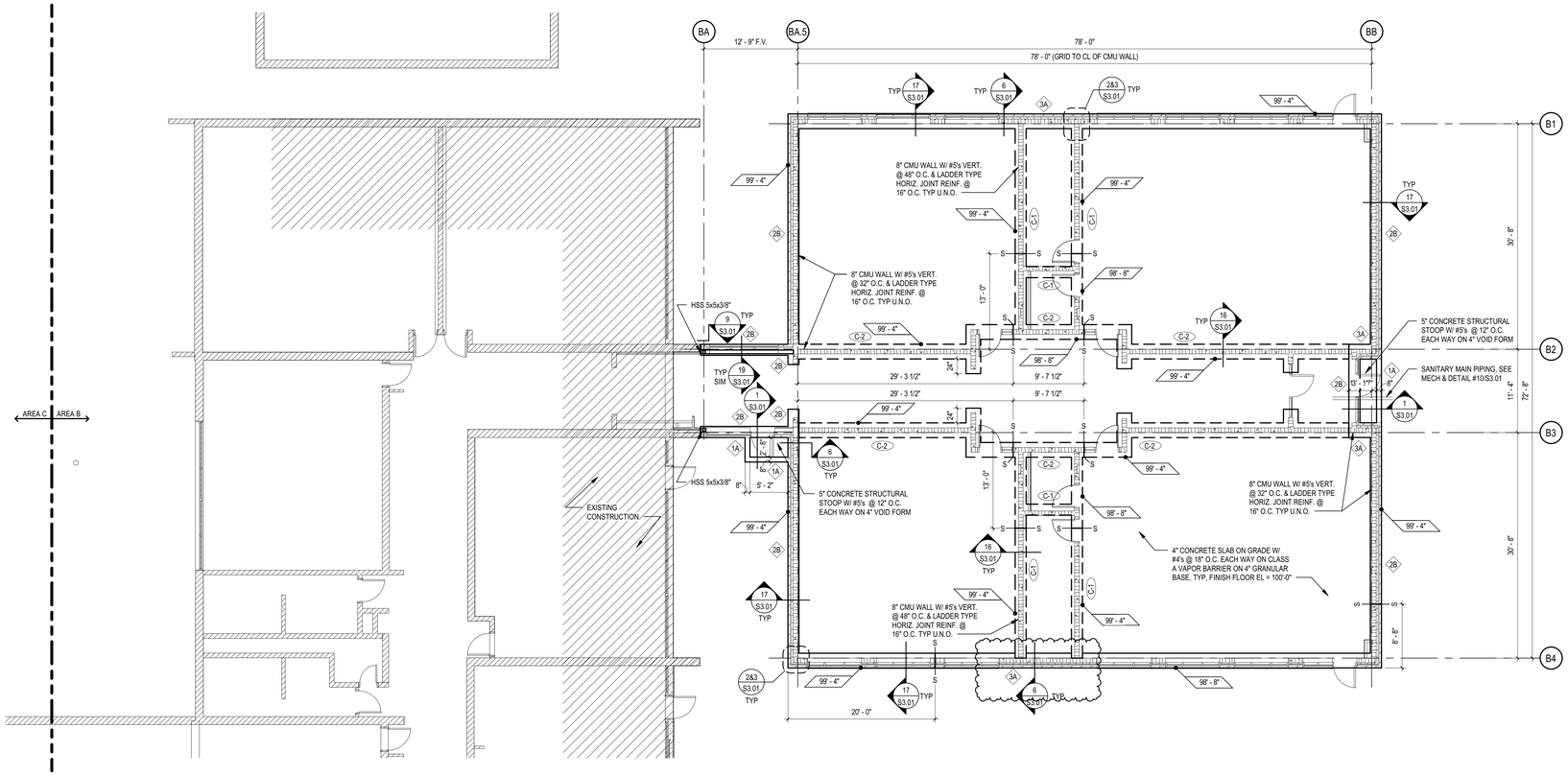
November 18, 2022

DRAFT

PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

Structural Plans - Area A

S1.01



FOOTING & FOUNDATION PLAN

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

GENERAL FOUNDATION NOTES:

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3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

4. 98'-0" INDICATES TOP OF FOOTING ELEVATION.

5. 98'-0"±? INDICATES ESTIMATED TOP OF FOOTING ELEVATION. BOTTOM OF FOOTING SHALL MATCH BOTTOM OF EXISTING FOUNDATION. FIELD VERIFY EXISTING CONDITION.

6. 98'-0" INDICATES TOP OF EXISTING FOOTING ELEVATION.

7. INDICATES STEP IN THE FOUNDATION ELEVATION. SEE DETAILS #5 & 7 ON SHEET S3.01.

8. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH PILASTER PAD FOOTINGS.

9. BEFORE STARTING GRADING AND EXCAVATION, ESTABLISH THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA. EXERCISE CARE TO PROTECT EXISTING UTILITIES DURING EARTHWORK OPERATIONS. PERFORM EXCAVATION WORK NEAR UTILITIES BY HAND AND PROVIDE NECESSARY SHORING AND SUPPORTS AS THE WORK PROGRESSES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EXISTING UNDERGROUND UTILITIES. SEE MECHANICAL AND CIVIL/LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATIONS OF EXISTING UTILITIES.

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12. ON THE FOOTING AND FOUNDATION PLAN, REFER TO VERBIAGE FOR FOOTING SIZES. DO NOT SCALE.

13. SLOPE SLAB TO DRAINS WHERE INDICATED IN THE ARCHITECTURAL DRAWINGS.

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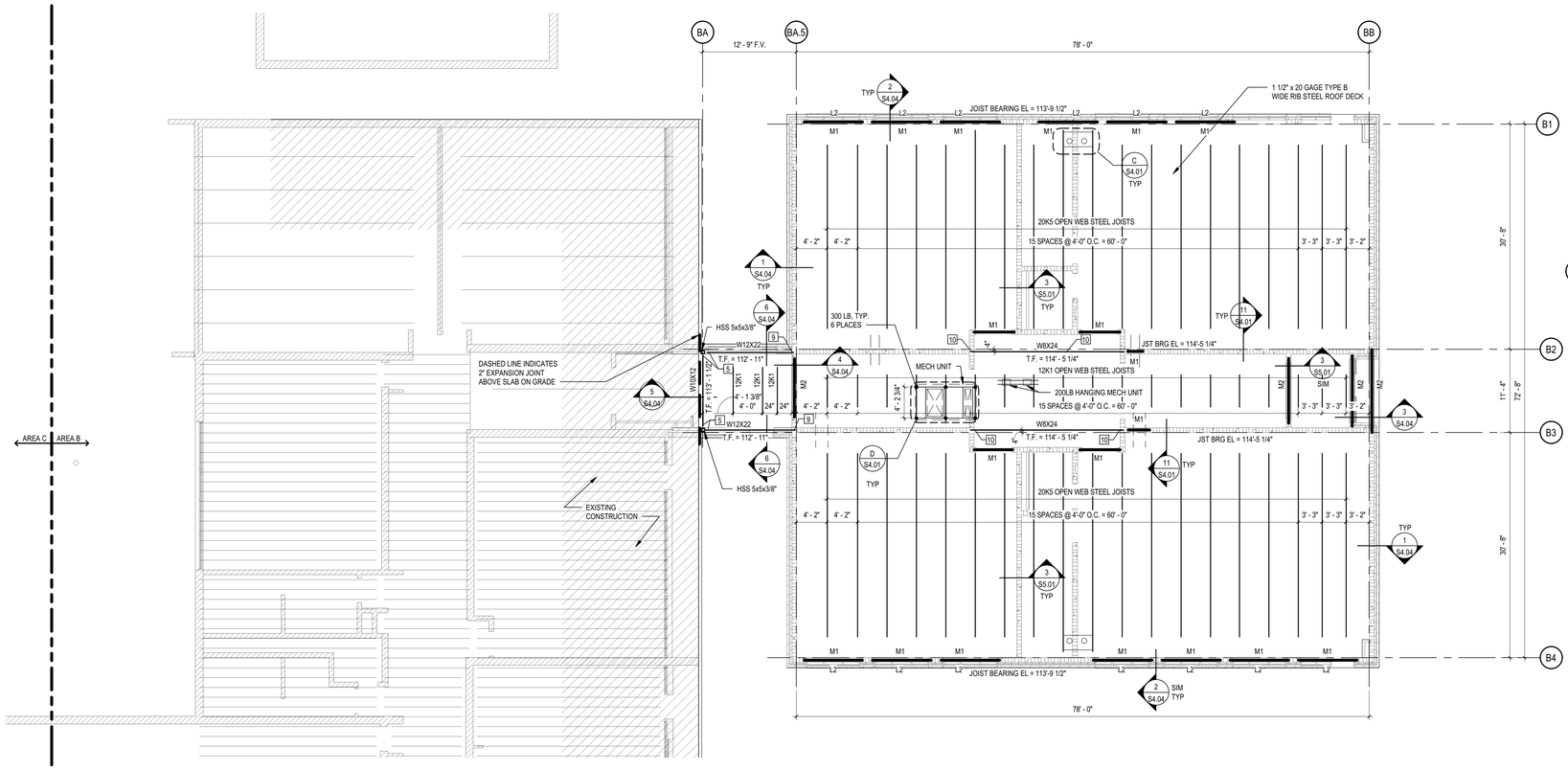
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PAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
A	3'-6"	3'-6"	1'-0"	(5) #5's EACH WAY @ BOTTOM
B	4'-0"	4'-0"	1'-0"	(6) #5's EACH WAY @ BOTTOM
C	4'-6"	4'-6"	1'-0"	(6) #5's EACH WAY @ BOTTOM
D	6'-10"	3'-6"	1'-0"	(6) #4's EACH WAY @ BOTTOM
E	6'-6"	6'-6"	1'-0"	(7) #5's EACH WAY @ BOTTOM
F	6'-0"	6'-0"	1'-0"	(7) #5's EACH WAY @ BOTTOM
G	9'-0 1/4"	5'-0"	1'-0"	(10) #5's SHOT (6) #5's LONG @ BOTTOM

GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
1A	8"	3'-4"	(1) #5 TOP & BOTTOM & #4's VERTICAL @ 24" O.C.
2A	1'-4"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
2B	1'-6"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3A	2'-0"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3B	2'-6"	3'-4"	(3) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
4A	3'-6"	3'-4"	(6) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.

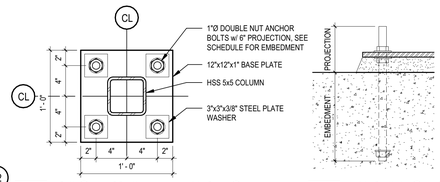


ROOF FRAMING PLAN

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

CONT. FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
C-1	1'-6"	1'-0"	(2) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-2	2'-0"	1'-0"	(3) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-2A	2'-6"	1'-0"	(3) #5's LONGIT. & #5's @ 12" O.C. TRANS.
C-3	3'-6"	1'-0"	(5) #5's LONGIT. & #5's @ 12" O.C. TRANS.



1 BASE PLATE - TYPE C

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

A TYP ANCHOR BOLT DETAIL

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

GENERAL FRAMING NOTES:

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clarkenersen.com

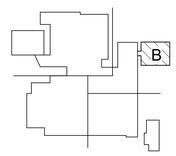
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Clark & Enersen, Inc.
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Engineering Contact: TJ Schirmer
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Lincoln, NE 68508
COA No. CA0029AE

SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
-	Date 2	Revision 2



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

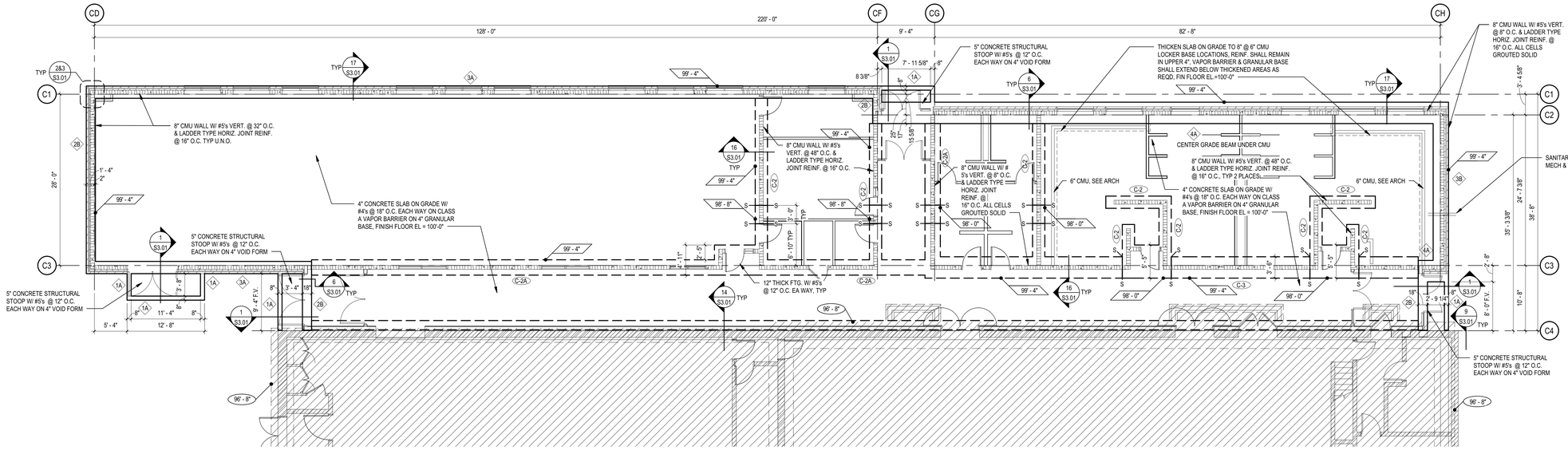
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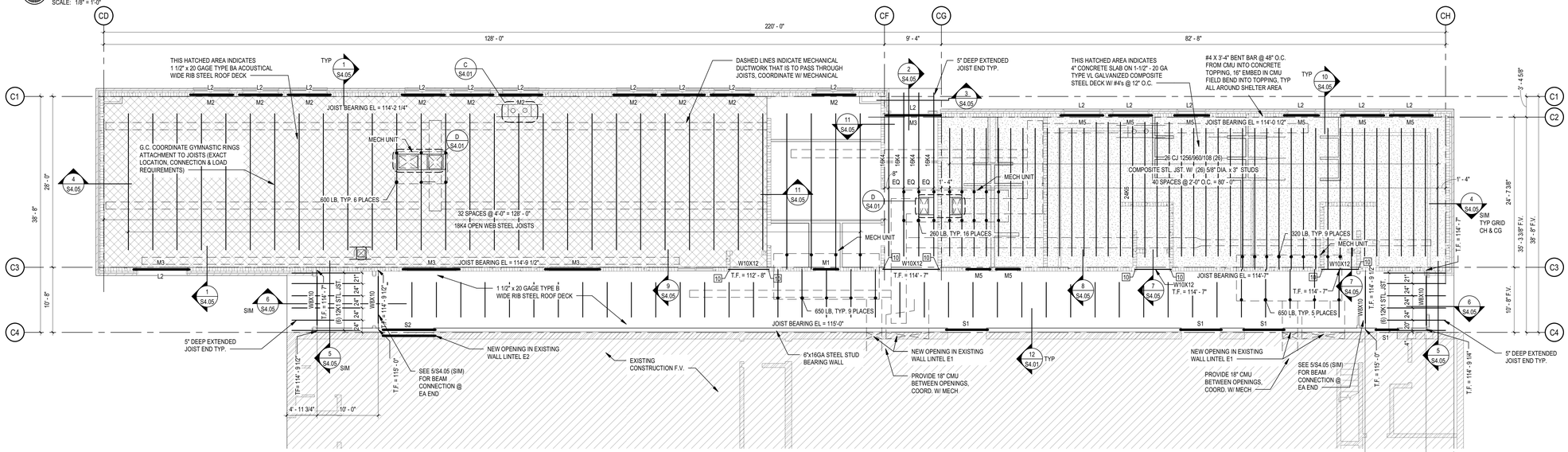
Structural Plans - Area B

S1.02



FOUNDATION PLAN - AREA C WEIGHTS

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



ROOF FRAMING PLAN - AREA C WEIGHTS

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

LINTELS IN EXISTING GYM WALL

LINTEL E1 RETURN AIR OPENING:
CMU: (2) W8x31's W/ CONT. 1/4" x 2" PLATE CENTERED UNDER BEAMS, WELD 2" PLATE TO BEAMS W/ 3/16" x 2" LONG FILLET WELDS AT 4" O.C. EACH SIDE (PLATE DOES NOT NEED TO EXTEND PAST EACH SIDE OF OPENING. EXTEND W8's 12" PAST EACH SIDE OF OPENING. CMU SOAPS SHALL BE INSTALLED ON W8's
BRICK: 6x4x3/8 ANGLE, GALV. EXTEND ANGLE 8" PAST EACH END OF OPENING

LINTEL E1 SUPPLY AIR OPENING:
CMU: (2) 6x6x3/8 ANGLES (TOE TO TOE) W/ CONT. 1/4" x 2" PLATE CENTERED OVER TOES OF ANGLES, WELD 2" PLATE TO ANGLES W/ 3/16" x 2" LONG FILLET WELDS AT 4" O.C. EACH SIDE (PLATE DOES NOT NEED TO EXTEND PAST EACH SIDE OF OPENING. EXTEND ANGLES 6" PAST EACH SIDE OF OPENING.
BRICK: 4x4x3/8 ANGLE, GALV. EXTEND ANGLE 6" PAST EACH END OF OPENING

LINTEL E2:
CMU: (2) W8x31's W/ CONT. 1/4" x 2" PLATE CENTERED UNDER BEAMS, WELD 2" PLATE TO BEAMS W/ 3/16" x 2" LONG FILLET WELDS AT 4" O.C. EACH SIDE (PLATE DOES NOT NEED TO EXTEND PAST EACH SIDE OF OPENING. EXTEND W8's 12" PAST EACH SIDE OF OPENING. CMU SOAPS SHALL BE INSTALLED ON W8's.
BRICK: 6x4x3/8 ANGLE, GALV. EXTEND ANGLE 8" PAST EACH END OF OPENING

PAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
A	3'-6"	3'-6"	1'-0"	(5) #5's EACH WAY @ BOTTOM
B	4'-0"	4'-0"	1'-0"	(6) #5's EACH WAY @ BOTTOM
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CONT. FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
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15. AT ALL RE-ENTRANT CORNERS IN THE SLAB, PLACE 2-#3 x 2'-6" LONG DOWELS @ 2" O.C. LOCATE BARS AT MID-DEPTH IN THE SLAB, TYPICAL.

16. SEE DETAIL #8/S3.01 FOR MECHANICAL EQUIPMENT BASE DETAIL. SEE SHEET ARCHITECTURAL & MECHANICAL SHEETS FOR EXACT LOCATIONS OF EQUIPMENT BASES.

GENERAL FRAMING NOTES:

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2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

3. BOXES WITH NUMBERS AT BEAM CONNECTIONS INDICATE CONNECTION TYPE. SEE DETAILS ON SHEET S4.01

4. SEE SHEET G0.10 (CODE COMPLIANCE SHEET) FOR STEEL FIREPROOFING REQUIREMENTS, IF REQUIRED.

5. DECK ATTACHMENT (1 1/2" - 20 GA - TYPE B ROOF DECK): ATTACH DECK TO SUPPORTING MEMBERS PERPENDICULAR TO SPAN OF DECK W/ 5/8"Ø PUDDLE WELDS AT ALL END LAP VALLEYS. IN SIDE LAP VALLEYS BETWEEN DECK UNITS AND ALL VALLEYS BETWEEN, AT SUPPORTING MEMBERS PARALLEL TO DECK SPAN, PLACE WELDS AT 12" O.C., MAXIMUM. ATTACH DECK UNITS TO EACH OTHER WITH #10 SELF-DRILLING, SELF-TAPPING SCREWS @ 12" O.C., MAXIMUM.

6. MECHANICAL UNITS: APPROXIMATE WEIGHT & LOCATION OF UNITS ARE SHOWN. IF ACTUAL WEIGHT OF UNIT IS 10% MORE THAN WEIGHT NOTED, CONTACT ENGINEER PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION W/ MECHANICAL.

7. ALL OPENINGS THROUGH ROOF SHALL BE COORDINATED (EXACT LOCATION AND SIZES) WITH MECHANICAL.

8. PROVIDE JOIST BRIDGING AS REQUIRED BY THE STEEL JOIST INSTITUTE. NET UPLIFT FOR ALL ROOF AREAS = 10 PSF.

9. PROVIDE 4x4x1/4"x CONTINUOUS ANGLE AT DECK PERIMETER AT EACH LEVEL (UNLESS DETAILED OTHERWISE) FOR DECK BEARING. PROVIDE HSS 2.5x2.5x3/16" WELDED TO WIDE FLANGE BEAM TOP FLANGE AS REQUIRED FOR DECK SUPPORT.

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12. LX OR MX INDICATES LINTEL. SEE S5.01 FOR LINTEL SCHEDULE.

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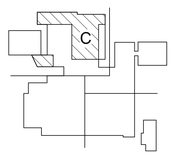
Lincoln, Nebraska
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1010 Lincoln Mall, Suite 200
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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

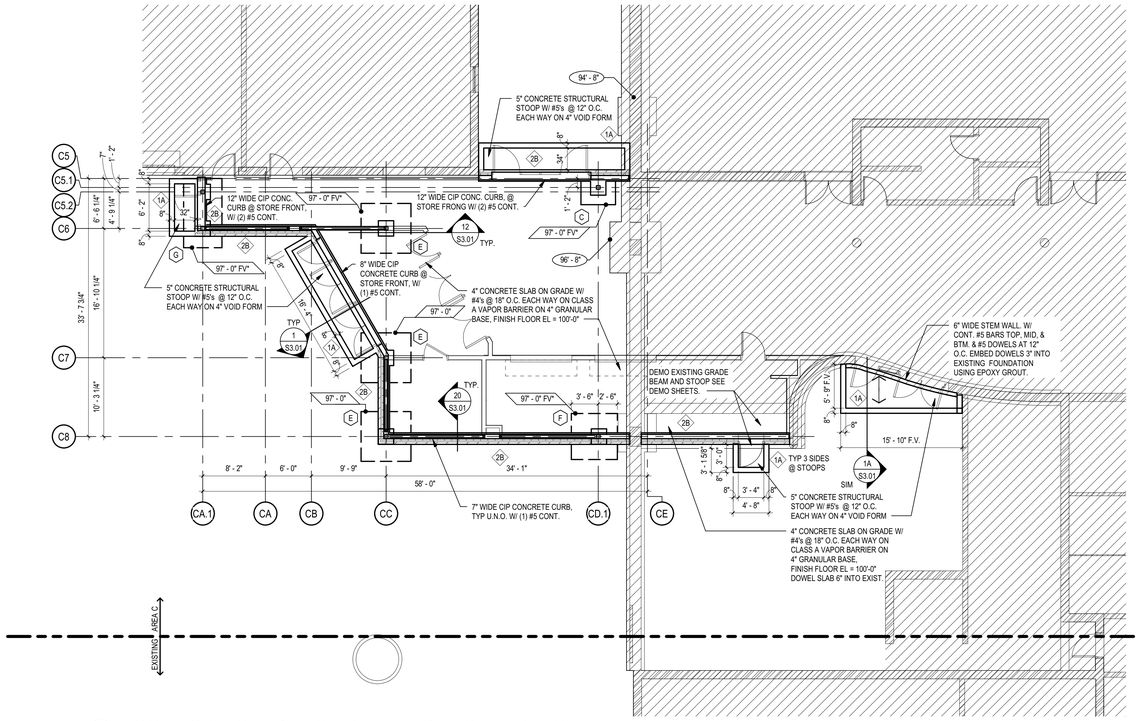
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November 18, 2022

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PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

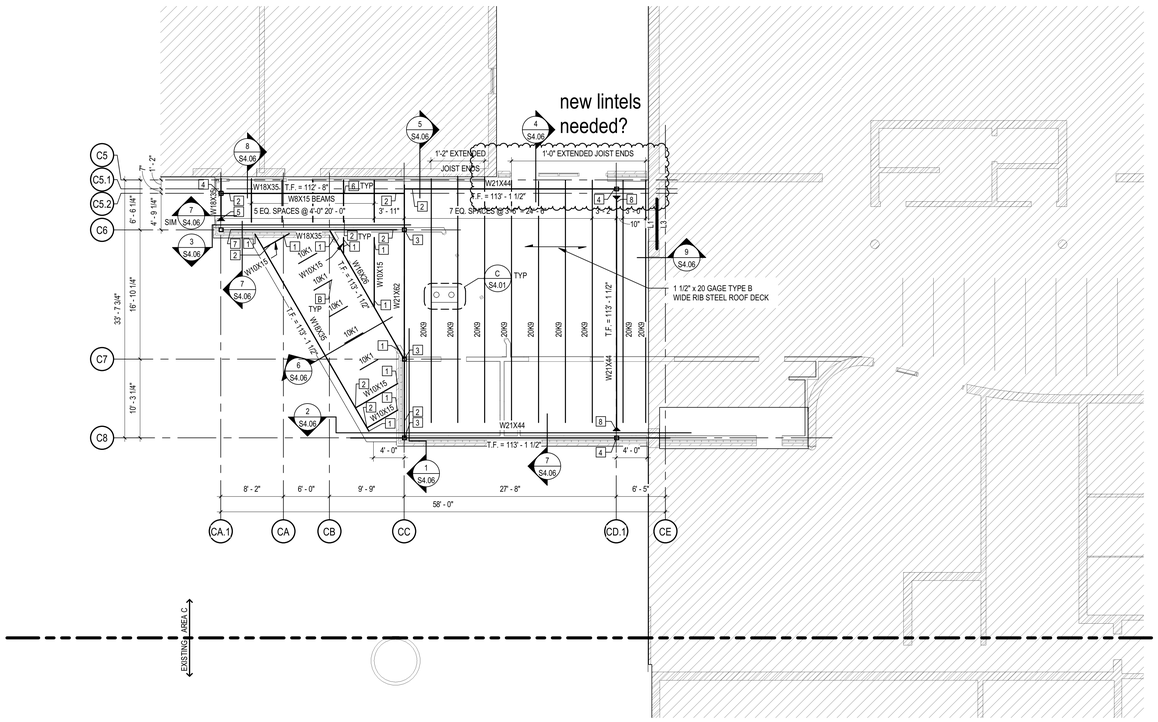
Structural Plans - Area C Weights

S1.03



FOOTING & FOUNDATION PLAN - AREA C ENTRANCE

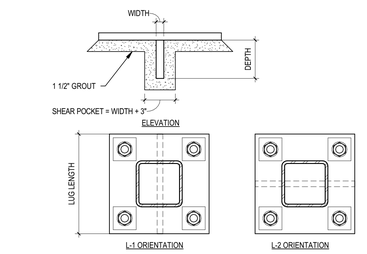
SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN - AREA C ENTRANCE

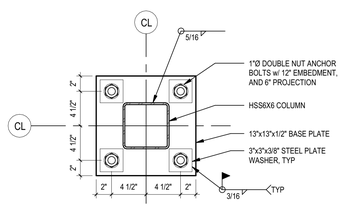
SCALE: 1/8" = 1'-0"

T.O.S EL. = 113'-4" U.N.O.



SHEAR LUG DETAIL

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



C BASE PLATE - TYPE C

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

GENERAL FOUNDATION NOTES:

1. SEE GEOTECHNICAL ENGINEERING REPORT PREPARED BY MID-STATE ENGINEERING & TESTING, DATED AUGUST 10, 2022, AND SPECIFICATIONS FOR EARTHWORK AND FOUNDATION PREPARATION REQUIREMENTS. ALL RECOMMENDATIONS GIVEN SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENT SET.

2. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THE NEW WORK WITHIN THE EXISTING CONDITIONS. ANY DEVIATION IN THE EXISTING CONDITIONS OR DIMENSIONS INDICATED SHALL BE COORDINATED WITH THE ENGINEER/ARCHITECT IN ORDER TO MODIFY THE PLAN ACCORDINGLY.

3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL DIMENSIONS WITH THE MECHANICAL UNIT SUPPLIER.

4. INDICATES TOP OF FOOTING ELEVATION.

5. INDICATES ESTIMATED TOP OF FOOTING ELEVATION. BOTTOM OF FOOTING SHALL MATCH BOTTOM OF EXISTING FOUNDATION. FIELD VERIFY EXISTING CONDITION.

6. INDICATES TOP OF EXISTING FOOTING ELEVATION.

7. INDICATES STEP IN THE FOUNDATION ELEVATION. SEE DETAILS #5 & 7 ON SHEET S3.01.

8. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH PILASTER PAD FOOTINGS.

9. BEFORE STARTING GRADING AND EXCAVATION, ESTABLISH THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA. EXERCISE CARE TO PROTECT EXISTING UTILITIES DURING EARTHWORK OPERATIONS. PERFORM EXCAVATION WORK NEAR UTILITIES BY HAND AND PROVIDE NECESSARY SHORING AND SUPPORTS AS THE WORK PROGRESSES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING EXISTING UNDERGROUND UTILITIES. SEE MECHANICAL AND CIVIL/LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATIONS OF EXISTING UTILITIES.

10. INDICATES DIRECTION OF STRUCTURAL SLAB SPAN.

11. ALL EXTERIOR EDGES OF GRADE BEAMS ARE TO LINE UP WITH THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.

12. ON THE FOOTING AND FOUNDATION PLAN, REFER TO VERBIAGE FOR FOOTING SIZES. DO NOT SCALE.

13. SLOPE SLAB TO DRAINS WHERE INDICATED IN THE ARCHITECTURAL DRAWINGS.

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16. SEE DETAIL #8/S3.01 FOR MECHANICAL EQUIPMENT BASE DETAIL. SEE SHEET ARCHITECTURAL & MECHANICAL SHEETS FOR EXACT LOCATIONS OF EQUIPMENT BASES.

COLUMN SCHEDULE - AREA C

GRID	SIZE	BASE PLATE	B.O. BASE PLATE ELEVATION	ANCHOR BOLT EMBEDMENT	SHEAR LUG	ANCHOR BOLT DIA.	PIER
A9-A17	18 x 18	TYPE B					
A9-AG	18 x 18	TYPE B					
A9-AL	18 x 18	TYPE B					
A11-AG	18 x 18	TYPE B					
A12-AG	18 x 18	TYPE B					
A14-AF	18 x 18	TYPE B					
A15-AF	18 x 18	TYPE B					
C5.1-CD.1	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1
C5.2-CA.1	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1
CA-CB	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1
CB-CC	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1
CC-CD.1	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1
CD.1-CE	HSS6X6X3/8	TYPE C	99'-6"	12"		1"	P1

NOTES:
1. TOP OF COLUMN ELEVATION SHALL EQUAL BOTTOM OF BEAM ELEVATION UNLESS NOTED OTHERWISE.
2. REFER TO THIS SHEET FOR BASE PLATE DETAILS.
3. ALL COLUMNS SHALL HAVE A CAP PLATE. PLATE SHALL BE SAME SIZE AND THICKNESS AS BASE PLATE UNLESS NOTED OTHERWISE AND SHALL BE SHOP FILLET GROOVE WELDED ALL AROUND. CAP PLATE THICKNESS SHALL BE 1/4" MINIMUM AT NON-BRACED FRAME & NON-FIXED CONNECTION LOCATIONS.
4. COAT ALL BELOW GRADE STEEL INCLUDING BASE PLATE & ANCHOR BOLTS HEAVILY WITH ASPHALTIC MASTIC.
5. REFER TO THIS SHEET FOR SHEAR LUG DETAILS.

PAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCING
A	3'-6"	3'-6"	1'-0"	(5) #5's EACH WAY @ BOTTOM
B	4'-0"	4'-0"	1'-0"	(6) #5's EACH WAY @ BOTTOM
C	4'-6"	4'-6"	1'-0"	(6) #5's EACH WAY @ BOTTOM
D	6'-10"	3'-6"	1'-0"	(6) #4's EACH WAY @ BOTTOM
E	6'-6"	6'-6"	1'-0"	(7) #5's EACH WAY @ BOTTOM
F	6'-0"	6'-0"	1'-0"	(7) #5's EACH WAY @ BOTTOM
G	9'-0 1/4"	5'-0"	1'-0"	(10) #5's SHOT (6) #5's LONG @ BOTTOM

GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
1A	8"	3'-4"	(1) #5 TOP & BOTTOM & #4's VERTICAL @ 24" O.C.
2A	1'-4"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
2B	1'-6"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3A	2'-0"	3'-4"	(3) #5's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
3B	2'-6"	3'-4"	(3) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.
4A	3'-6"	3'-4"	(6) #6's TOP & BOTTOM & #4 CLOSED TIES @ 24" O.C.

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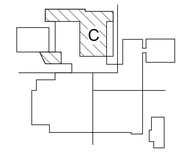
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7 - #

SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
-	Date 2	Revision 2



Key Plan

Heartland Community Schools Addition & Renovation

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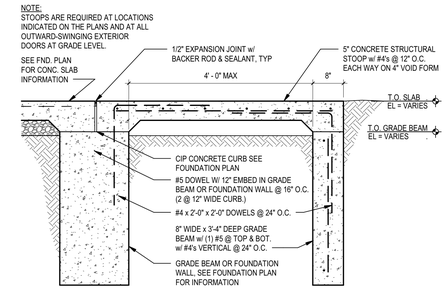
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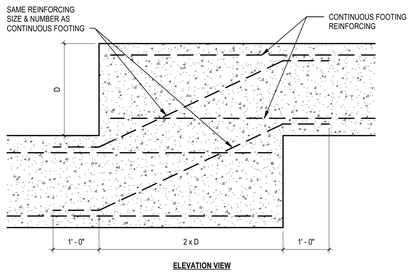
Structural Plans - Area C Entrance

S1.04

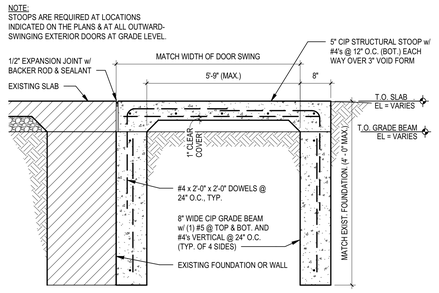


1 TYPICAL STOOP DETAIL

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

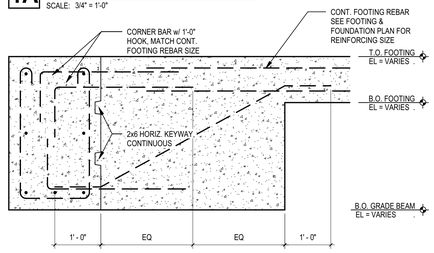


ELEVATION VIEW

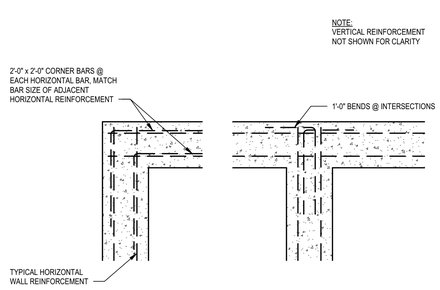


1A TYPICAL STOOP DETAIL

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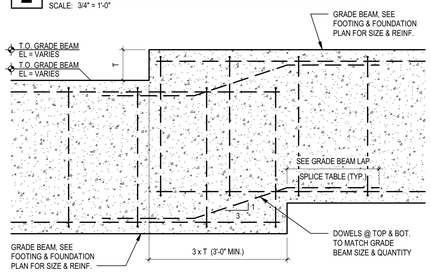


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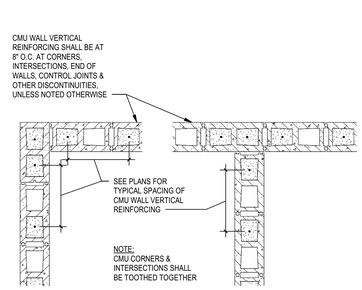


2 TYPICAL HORIZONTAL BAR BENDING

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

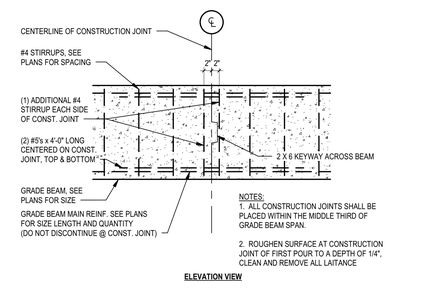


ELEVATION VIEW



3 TYPICAL CMU WALL PLAN DETAIL

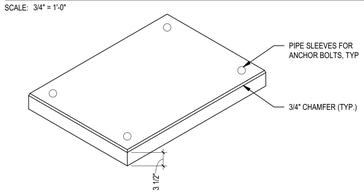
SCALE: 3/4" = 1'-0"



ELEVATION VIEW

4 TYP GRADE BEAM CONSTRUCTION JOINT

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



NOTES:
1. PROVIDE 30# FELT BETWEEN BASE & FLOOR. BASE SHALL BE DOWELED TO FLOOR.

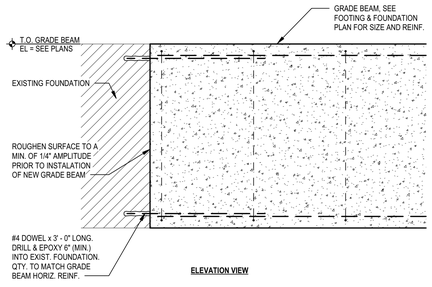
2. ALL BASES SUPPORTING BOTH EQUIPMENT AND A CONCRETE INERTIA PAD TO BE REINFORCED AS FOLLOWS: - PROVIDE #4 REBAR @ 12" O.C. BOTH WAYS IN BASE.

3. ADJUST SIZE AS REQUIRED FOR INDIVIDUAL EQUIPMENT INSTALLED.

4. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.

5 TYPICAL FOOTING STEP DETAIL

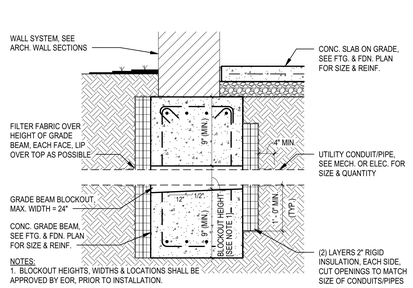
SCALE: 3/4" = 1'-0"



ELEVATION VIEW

6 TYPICAL FOOTING STEP DETAIL

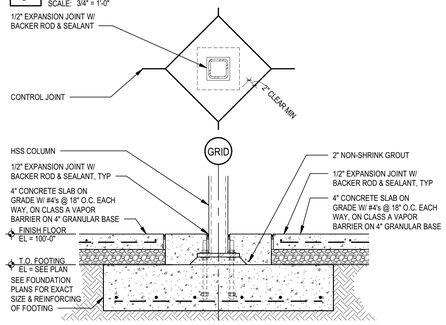
SCALE: 3/4" = 1'-0"

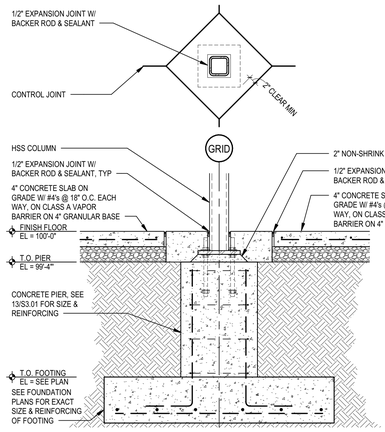


NOTES:
1. BLOCKOUT HEIGHTS, WIDTHS & LOCATIONS SHALL BE APPROVED BY EOR, PRIOR TO INSTALLATION.

7 TYPICAL GRADE BEAM STEP

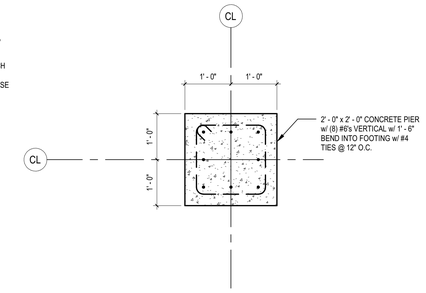
SCALE: 3/4" = 1'-0"





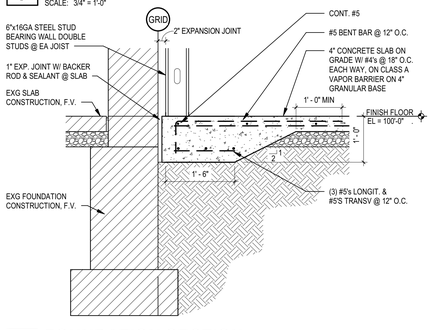
8 MECHANICAL EQUIPMENT BASE

SCALE: NO SCALE



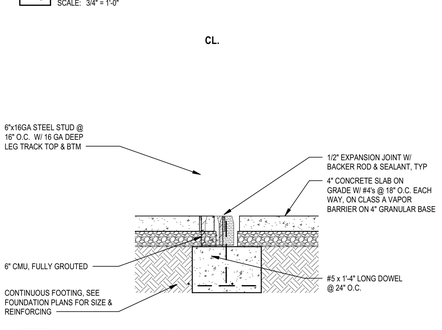
9 TYPICAL GRADE BEAM CONN. TO EXIST.

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



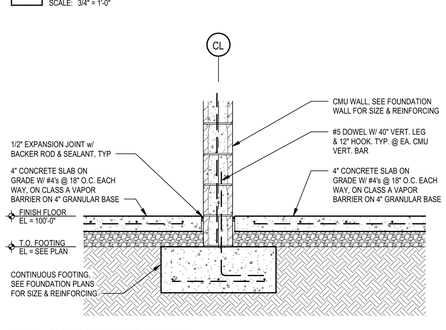
10 GRADE BEAM BLOCKOUT SECTION

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



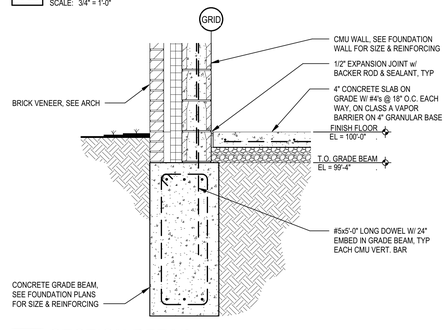
11 SECTION @ SPREAD FOOTING

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



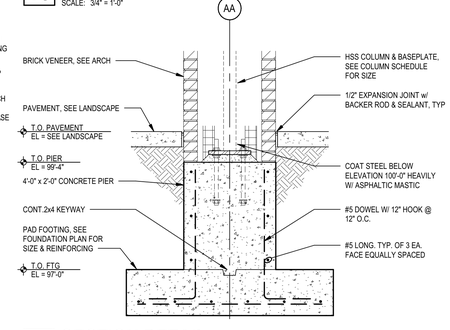
12 SECTION @ SPREAD FOOTING

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



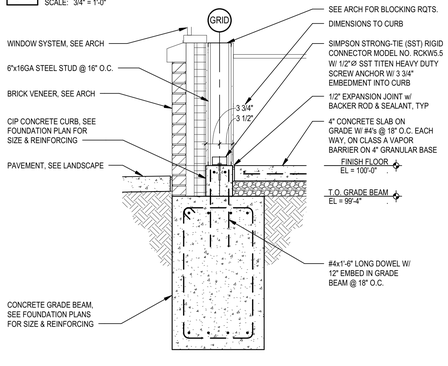
13 PIER PLAN DETAIL - P1

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



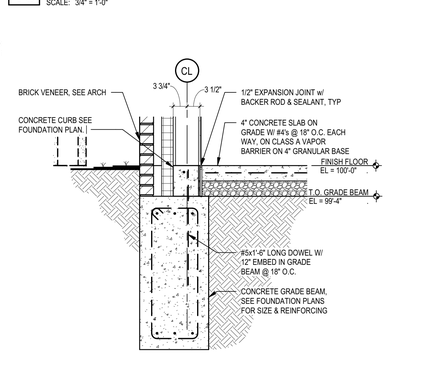
14 FOUNDATION SECTION

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



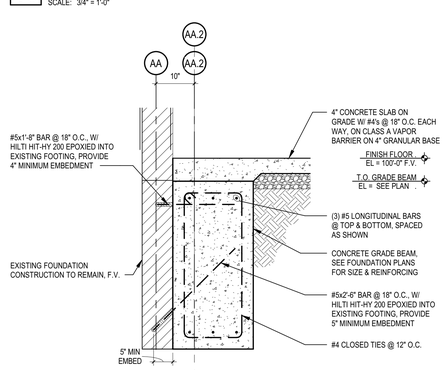
15 FOUNDATION SECTION

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



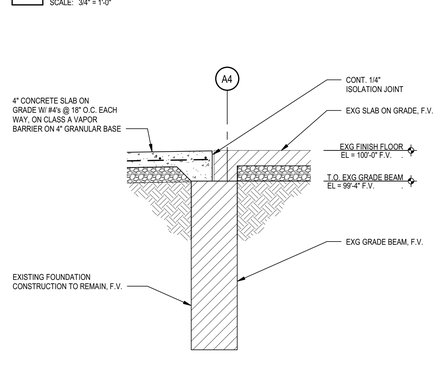
16 SECTION DETAIL

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



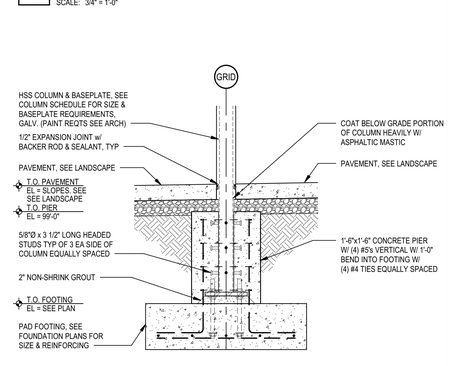
17 SECTION DETAIL

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



18 SECTION DETAIL

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



19 FOUNDATION SECTION

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

20 GRADE BEAM DETAIL

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

21 FOUNDATION SECTION

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

22 FOUNDATION SECTION

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

23 FOUNDATION SECTION

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

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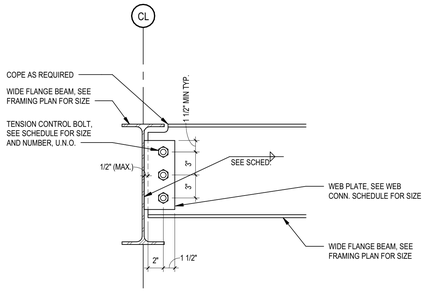
November 18, 2022

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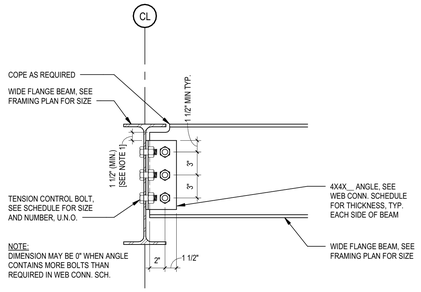
Foundation Details

S3.01



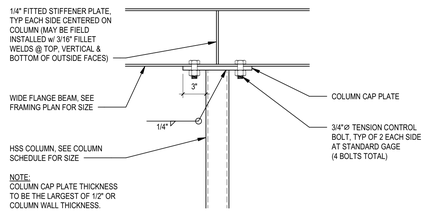
1 BEAM TO BEAM (PINNED)

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



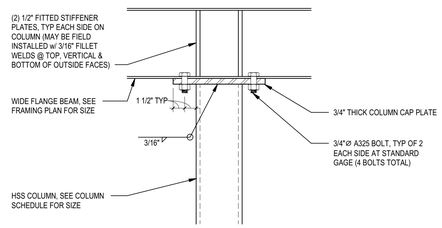
2 BEAM TO BEAM (PINNED)

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



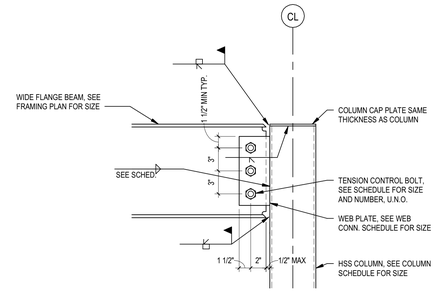
3 BEAM OVER HSS COLUMN (PINNED)

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



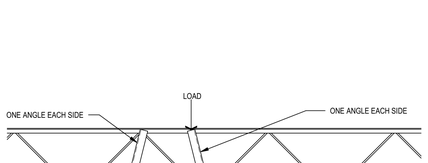
4 BEAM OVER HSS COLUMN (FIXED)

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



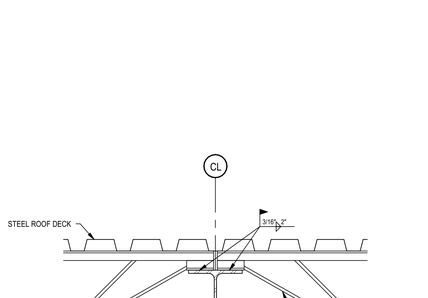
5 BEAM TO HSS COLUMN (FIXED)

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



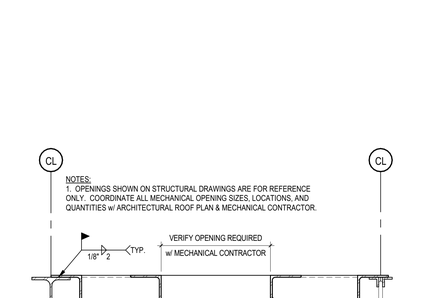
6 BEAM OVER BEAM (PINNED)

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



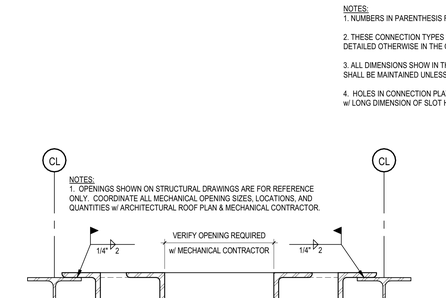
7 BEAM TO HSS COLUMN (PINNED)

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



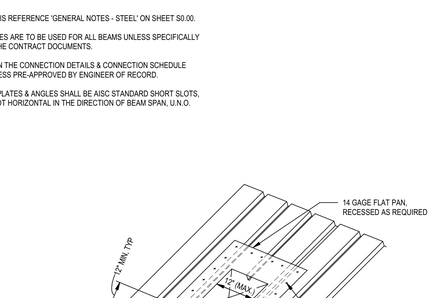
8 BEAM TO BEAM (MOMENT)

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



9 WF BEAM BEARING ON CMU

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



10 WF BEAM BEARING ON CMU

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

11 STEEL JOIST ON CMU WALL

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

12 FRAMING SECTION

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

WEB CONNECTION SCHEDULE							
BEAM SIZE	SINGLE PLATE CONNECTIONS					DOUBLE ANGLE CONNECTIONS	
	WEB PLATE THICKNESS (4)	WEB PLATE WELD	STD. PL.	EXTENDED PLATE		ANGLE THICKNESS	BOLTS (3) & (5)
			BOLTS (3) & (5)	BOLTS (3) & (5)	STIFFENERS REQUIRED		
W8, W10	5/16"	1/4"	(2) 3/4"ø	(2) 3/4"ø	NO	5/16"	(2) ROWS - 3/4"ø
W14, W16	5/16"	1/4"	(3) 3/4"ø	(3) 3/4"ø	NO	5/16"	(3) ROWS - 3/4"ø
W18	5/16"	1/4"	(5) 3/4"ø	(5) 3/4"ø	NO	5/16"	(4) ROWS - 3/4"ø
W21							

NOTES:
1. NUMBERS IN PARENTHESIS REFERENCE 'GENERAL NOTES - STEEL' ON SHEET S0.00.

2. THESE CONNECTION TYPES ARE TO BE USED FOR ALL BEAMS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE CONTRACT DOCUMENTS.

3. ALL DIMENSIONS SHOW IN THE CONNECTION DETAILS & CONNECTION SCHEDULE SHALL BE MAINTAINED UNLESS PRE-APPROVED BY ENGINEER OF RECORD.

4. HOLES IN CONNECTION PLATES & ANGLES SHALL BE AISC STANDARD SHORT SLOTS, w/ LONG DIMENSION OF SLOT HORIZONTAL IN THE DIRECTION OF BEAM SPAN, U.N.O.

NOTES:
1. THIS DETAIL IS TO BE USED IN EACH LOCATION WHERE MISCELLANEOUS LOADING IS NOT APPLIED TO THE TOP CHORD AT A PANEL POINT. MECHANICAL / ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION.

2. JOIST CHORDS ARE NOT DESIGNED FOR OFF PANEL BENDING DUE TO CONCENTRATED LOADS UNLESS SUCH LOAD WAS DETAILED WITH THE MAGNITUDE AND EXACT DIMENSION DEPICTED ON THE SHOP DRAWINGS OTHERWISE EITHER PLACE LOADS AT PANEL POINTS OR FIELD WELD AN EXTRA MEMBER FROM THE POINT OF LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD. MECHANICAL / ELECTRICAL CONTRACTOR SHALL EMPLOY A STRUCTURAL ENGINEER FOR SIZING OF THESE MEMBERS. CALCULATIONS SHALL BE SUBMITTED UPON REQUEST OF THE ARCHITECT / ENGINEER.

A TYPICAL JOIST ELEVATION

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

B STEEL JOIST TO WF BEAM

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

C TYPICAL ROOF MECH OPENING FRAME

SCALE: 1 1/2" = 1'-0" FOR OPENINGS UP TO 6' - 0" WIDE PERP. TO DECK SPAN

D TYPICAL ROOF MECH OPENING FRAME

SCALE: 1 1/2" = 1'-0" FOR OPENINGS 6' - 0" TO 12' - 0" WIDE PERP. TO DECK SPAN

E METAL ROOF DECK OPENING DETAIL

SCALE: NO SCALE FOR OPENINGS UP TO 1' - 0" WIDE PERP. TO DECK SPAN

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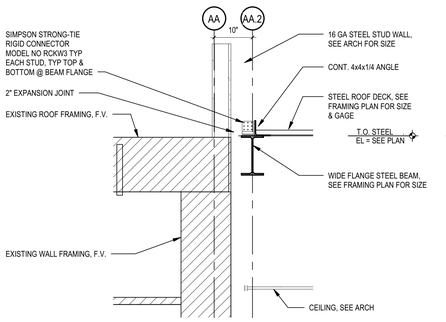
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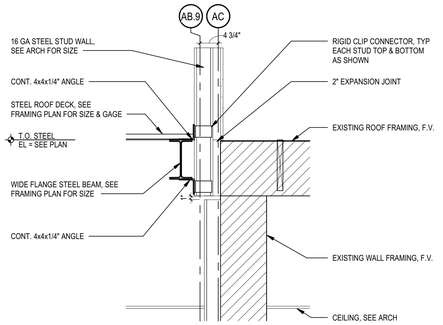
Connection & Typical Framing Details

S4.01



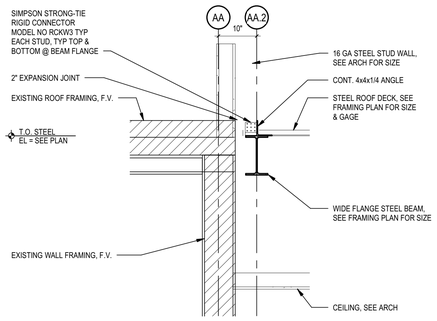
1 FRAMING SECTION

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



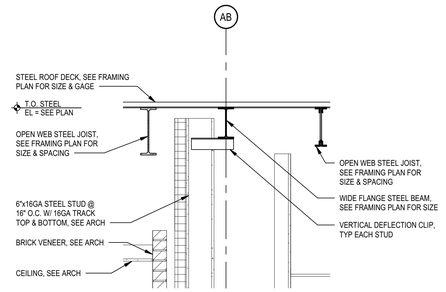
2 FRAMING SECTION

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



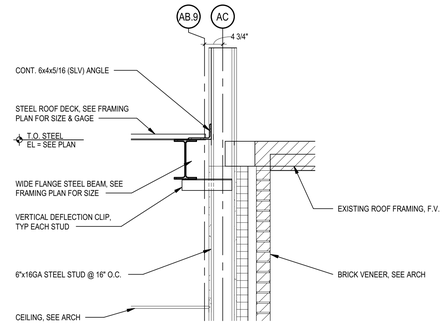
3 FRAMING SECTION

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



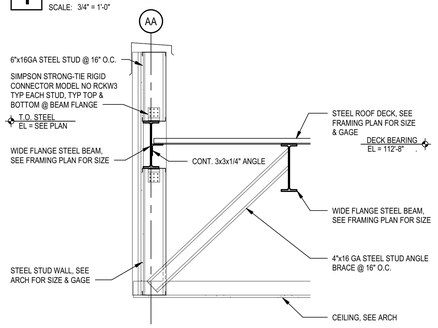
4 FRAMING SECTION

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



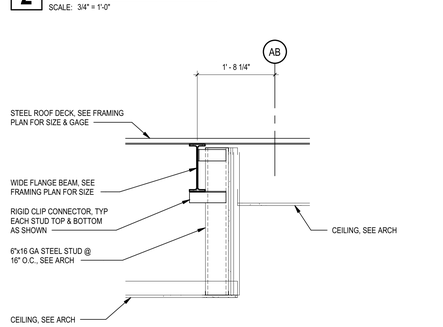
5 FRAMING SECTION

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



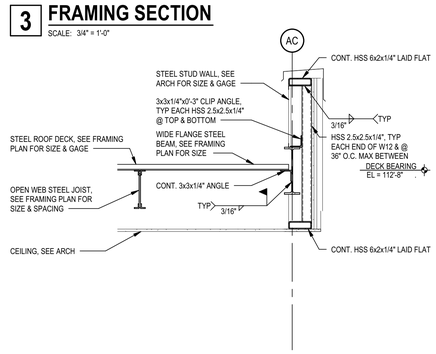
6 FRAMING SECTION

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



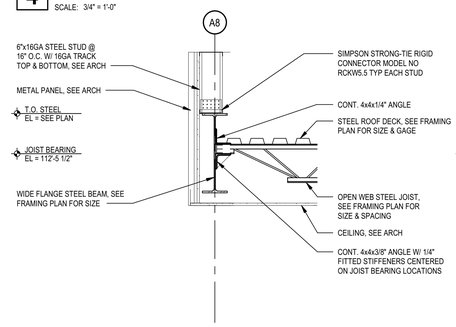
7 FRAMING SECTION

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



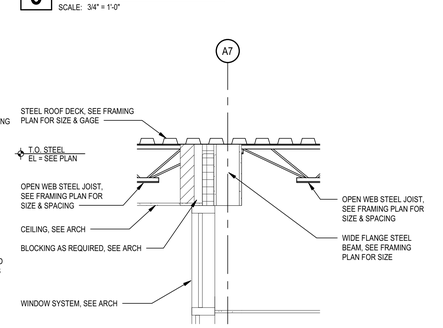
8 FRAMING SECTION

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



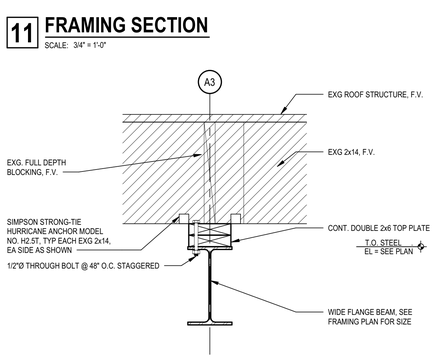
9 FRAMING SECTION

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



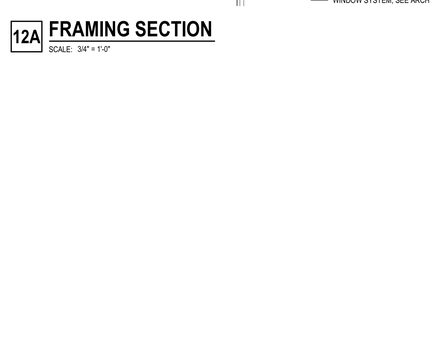
10 FRAMING SECTION

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



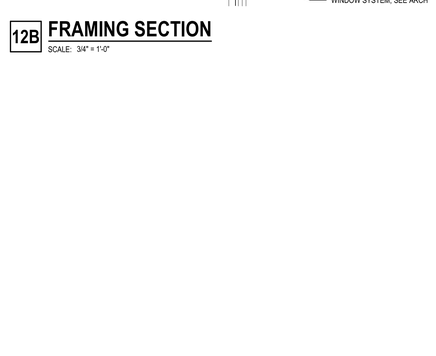
11 FRAMING SECTION

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



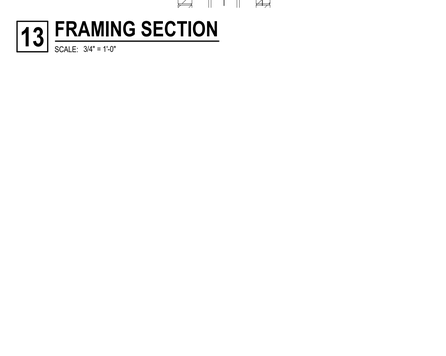
12A FRAMING SECTION

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



12B FRAMING SECTION

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



13 FRAMING SECTION

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



14 FRAMING DETAIL

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

15 FRAMING DETAIL

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

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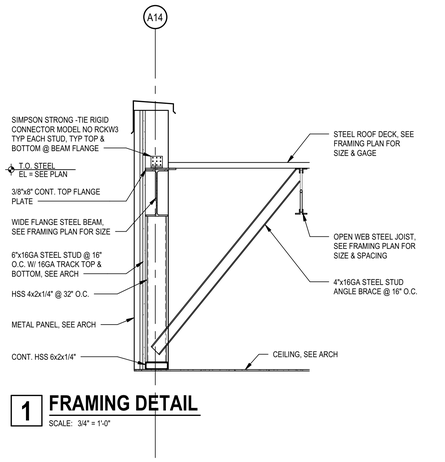
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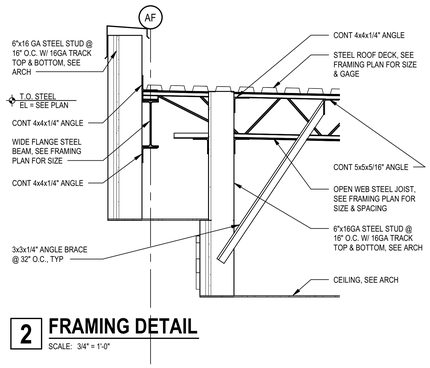
Framing Details - Area A
Main Entrance

S4.02



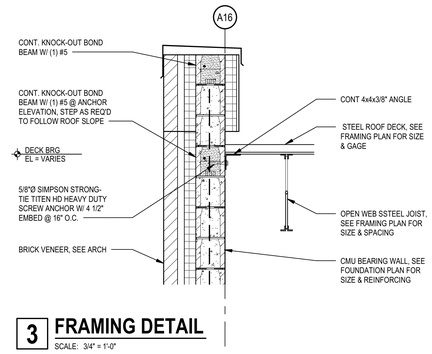
1 FRAMING DETAIL

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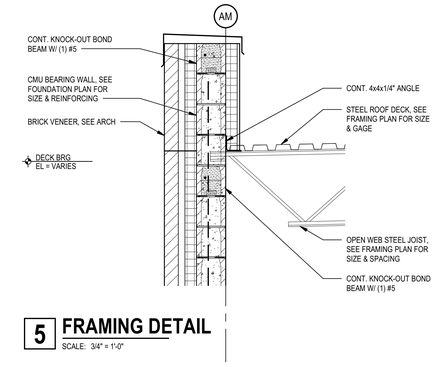
2 FRAMING DETAIL

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



3 FRAMING DETAIL

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



5 FRAMING DETAIL

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

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COA No. CA0029AE

7 - 8

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

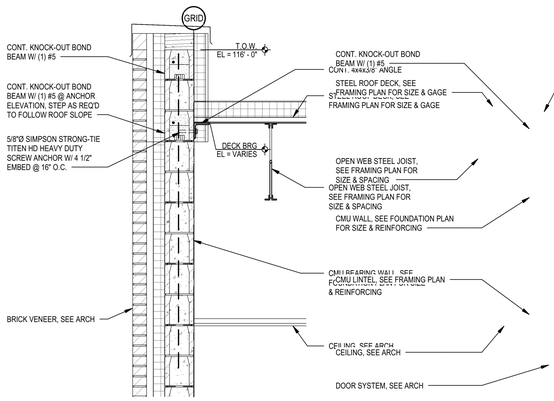
November 18, 2022

DRAFT

PREPARED FOR PRELIMINARY SUBMISSION AND REVIEW ONLY -- NOT FOR CONSTRUCTION.

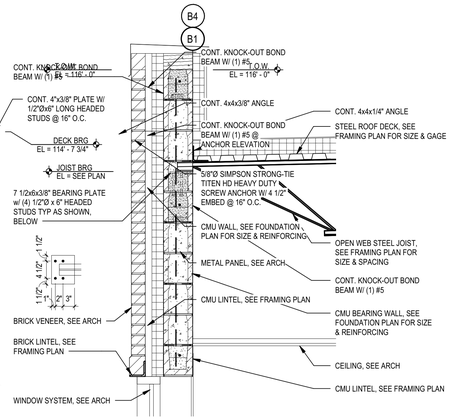
Framing Details - Area A Daycare

S4.03



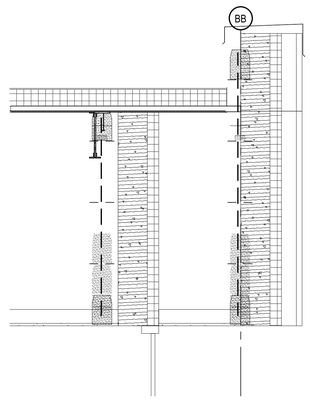
1 FRAMING SECTION

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



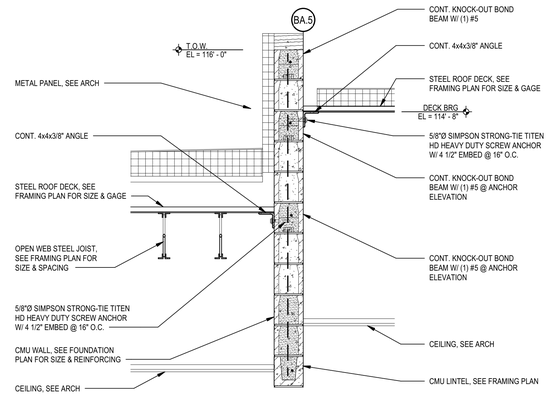
2 FRAMING SECTION

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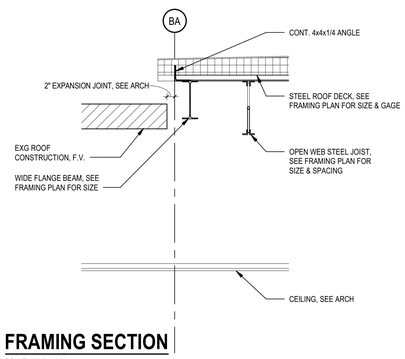
3 FRAMING SECTION

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



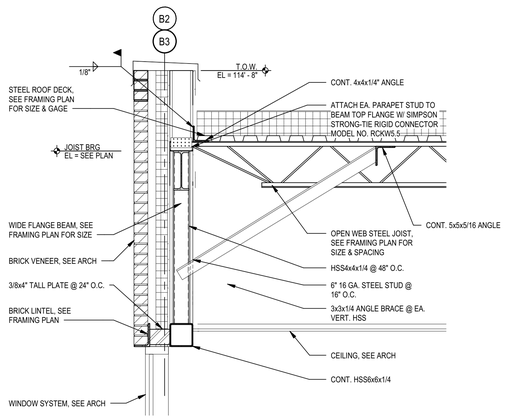
4 FRAMING SECTION

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



5 FRAMING SECTION

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



6 FRAMING DETAIL

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

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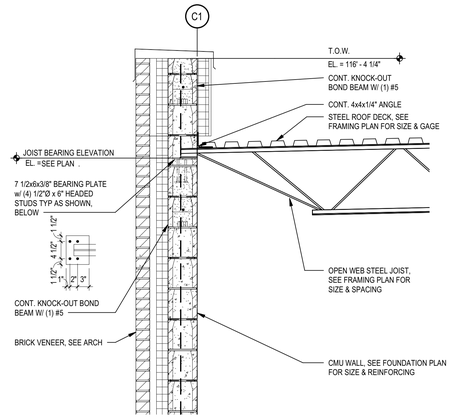
November 18, 2022

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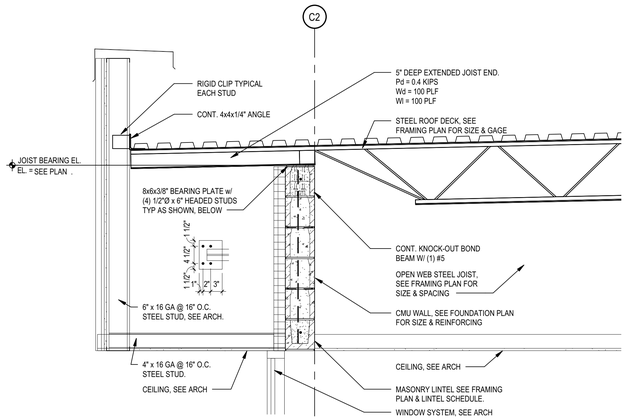
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Framing Details - Area B

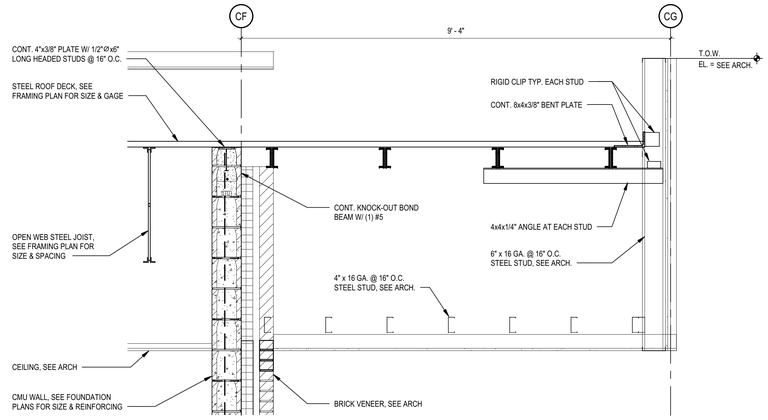
S4.04



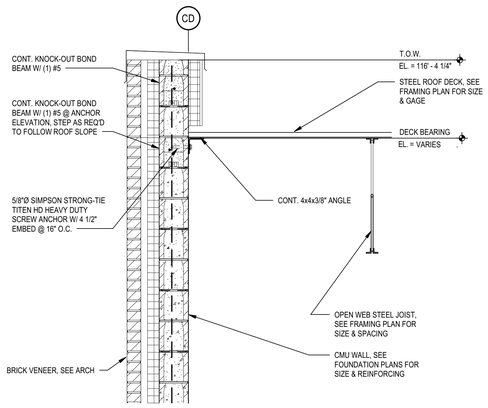
1 FRAMING SECTION
SCALE: 3/4" = 1'-0"



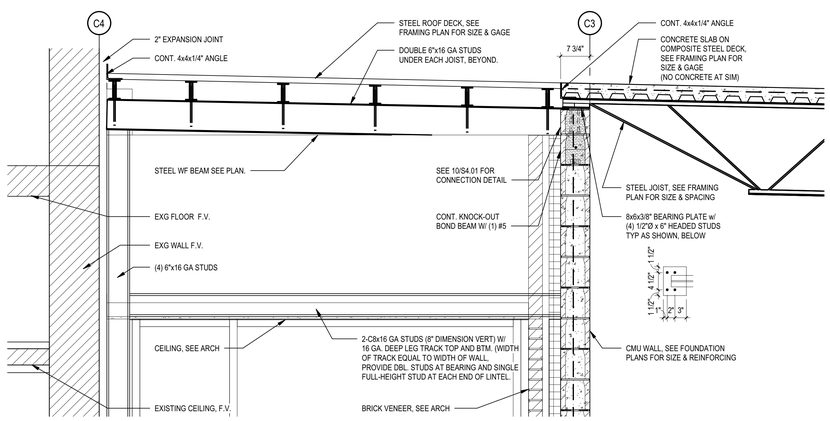
2 FRAMING SECTION
SCALE: 3/4" = 1'-0"



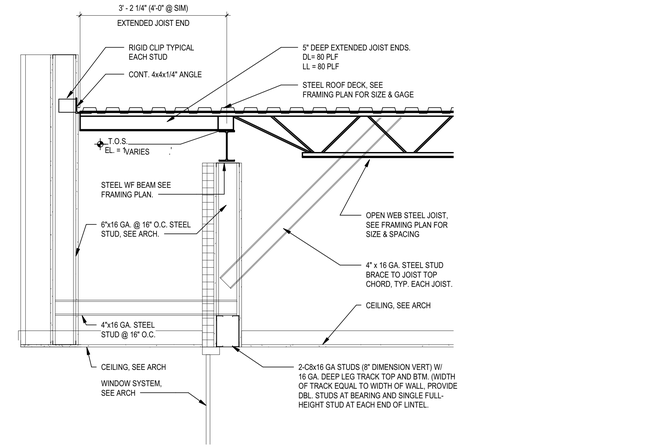
3 FRAMING SECTION
SCALE: 3/4" = 1'-0"



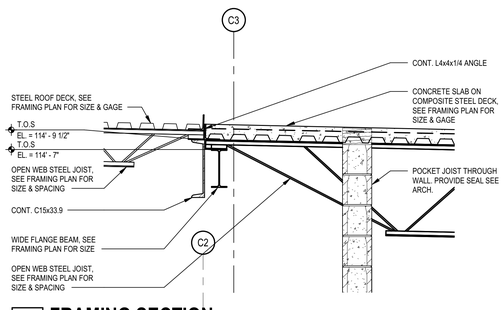
4 FRAMING SECTION
SCALE: 3/4" = 1'-0"



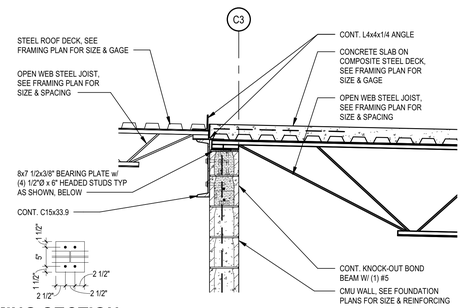
5 FRAMING SECTION
SCALE: 3/4" = 1'-0"



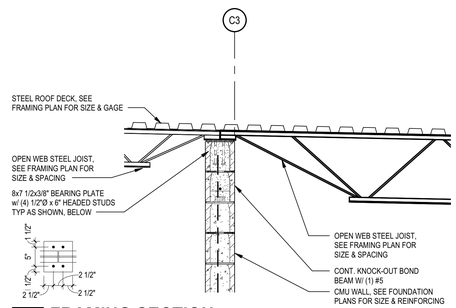
6 FRAMING SECTION
SCALE: 3/4" = 1'-0"



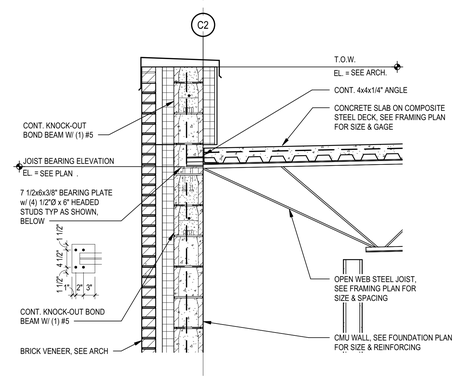
7 FRAMING SECTION
SCALE: 3/4" = 1'-0"



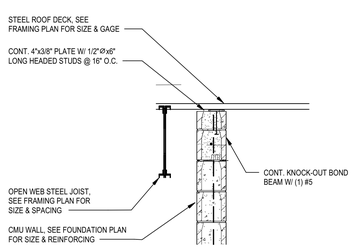
8 FRAMING SECTION
SCALE: 3/4" = 1'-0"



9 FRAMING SECTION
SCALE: 3/4" = 1'-0"



10 FRAMING SECTION
SCALE: 3/4" = 1'-0"



11 FRAMING SECTION
SCALE: 3/4" = 1'-0"

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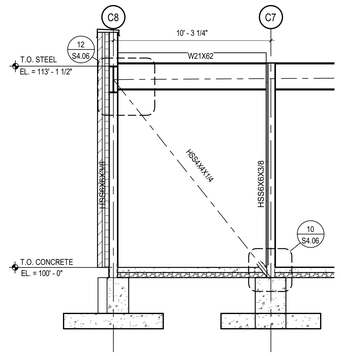
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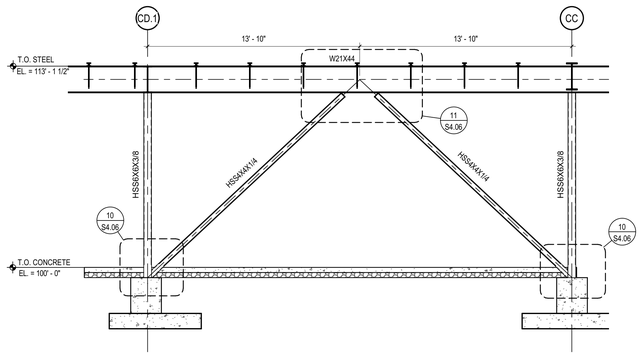
Framing Details - Area C
Weights

S4.05



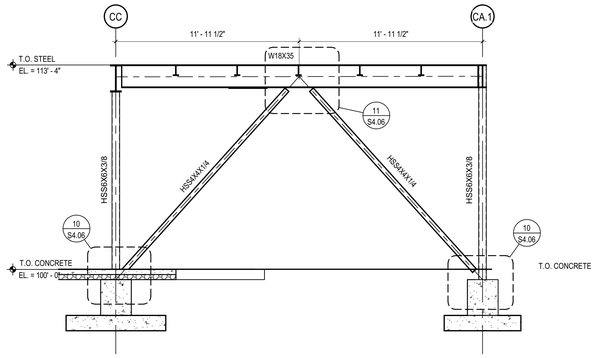
1 BRACE FRAME ELEVATION AT GRID CC

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



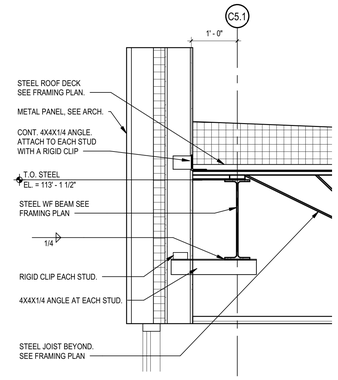
2 BRACE FRAME ELEVATION AT GRID C8

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



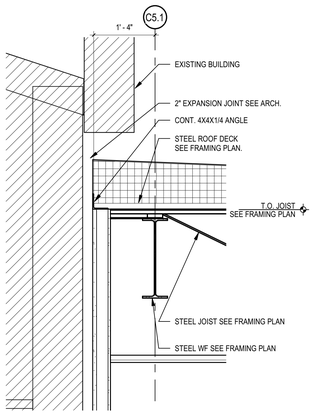
3 BRACE FRAME ELEVATION AT GRID C6

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



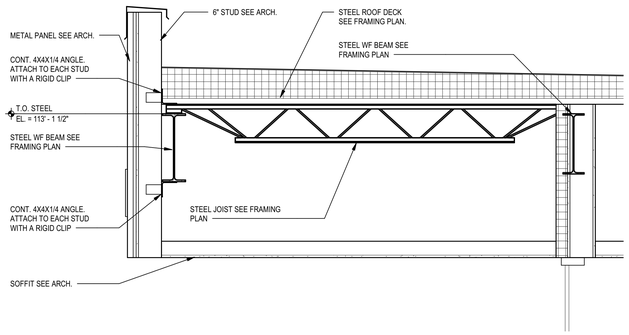
4 SECTION DETAIL

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



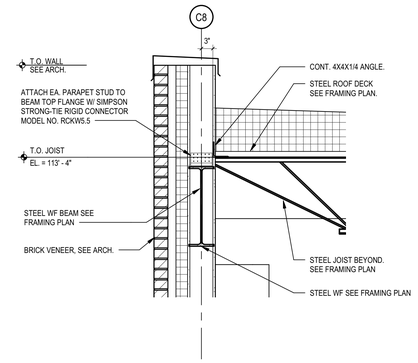
5 SECTION DETAIL

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



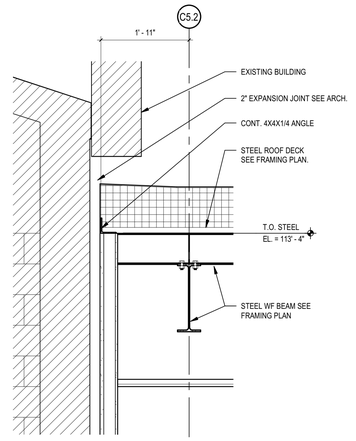
6 SECTION DETAIL

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



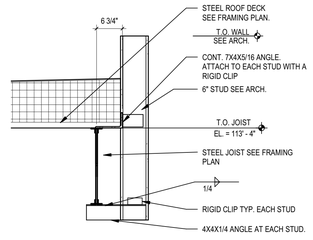
7 SECTION DEATIL

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



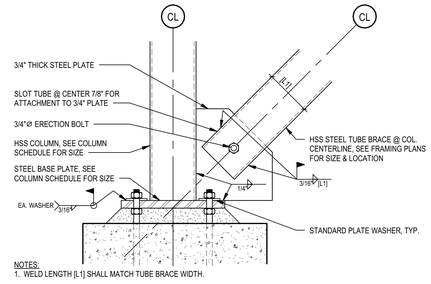
8 SECTION DETAIL

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



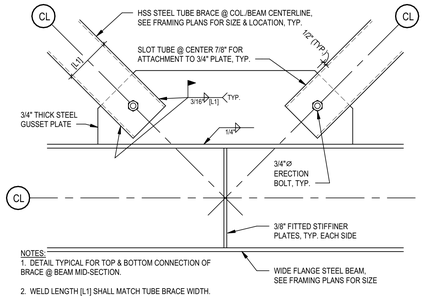
9 SECTION DETAIL

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



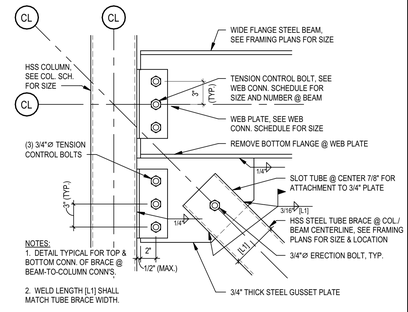
10 TUBE BRACING CONNECTION DETAIL

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



11 TUBE BRACING CONNECTION DETAIL

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



12 TUBE BRACING CONNECTION DETAIL

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

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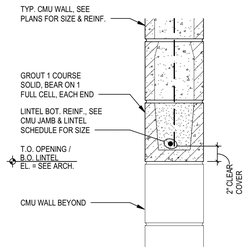
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DRAFT

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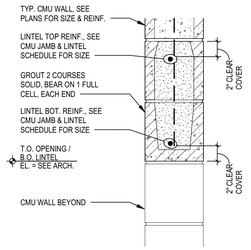
Framing Details - Area C Entrance

S4.06



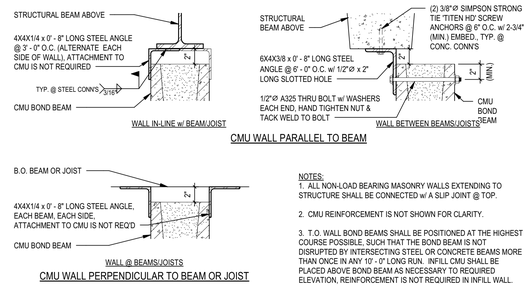
1 CMU LINTEL - L1

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



2 CMU LINTEL - L2

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



NOTES:

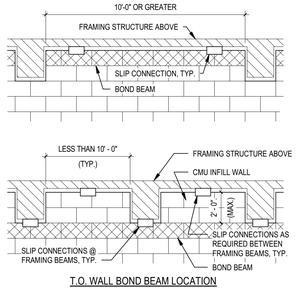
1. ALL NON-LOAD BEARING MASONRY WALLS EXTENDING TO STRUCTURE SHALL BE CONNECTED w/ A SLIP JOINT @ TOP.

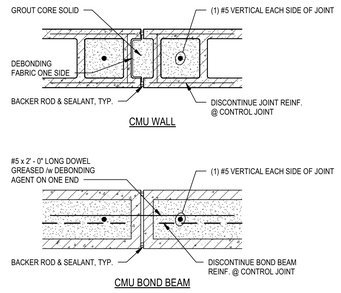
2. CMU REINFORCEMENT IS NOT SHOWN FOR CLARITY.

3. T.O. WALL BOND BEAMS SHALL BE POSITIONED AT THE HIGHEST COURSE POSSIBLE, SUCH THAT THE BOND BEAM IS NOT DISRUPTED BY INTERSECTING STEEL OR CONCRETE BEAMS MORE THAN ONCE IN ANY 10' - 0" LONG RUN. INFILL CMU SHALL BE PLACED ABOVE BOND BEAM AS NECESSARY TO REQUIRED ELEVATION, REINFORCEMENT IS NOT REQUIRED IN INFILL WALL.

3 CMU T.O. WALL SLIP CONNECTIONS

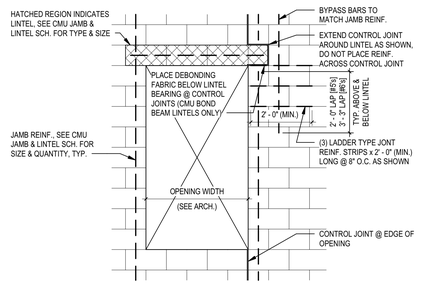
SCALE: 1 1/2" = 1'-0"





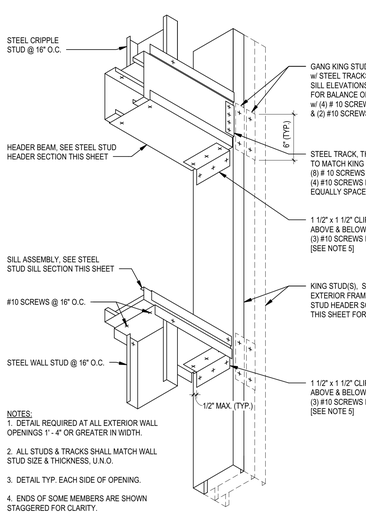
4 CMU CONTROL JOINT DETAIL

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



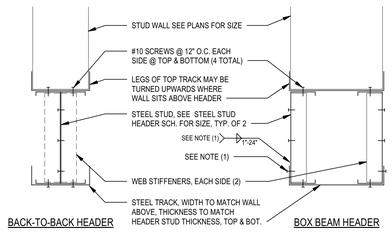
5 CMU WALL OPENING @ CONTROL JOINT

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



6 STEEL STUD TO METAL DECK CONNECTION

SCALE: 3" = 1'-0"



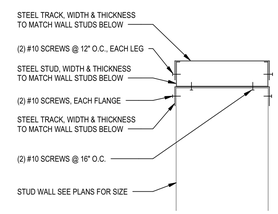
NOTES:

1. SCREW FASTENERS MAY BE INSTALLED THROUGH LEG OF TRACK, OR TRACK MAY BE WELDED TO STUD, ON BOX BEAM HEADERS WHERE THE STEEL TRACK LEG OVERLAPS STUD WEB.

2. WEB STIFFENERS ARE REQUIRED AT ENDS OF ALL BOX BEAM HEADERS, SEE EXTERIOR FRAMING STEEL STUD HEADER SCHEDULE THIS SHEET FOR REQUIRED WEB STIFFENERS ON BACK-TO-BACK HEADERS. SEE WEB STIFFENER CONNECTION DETAIL THIS SHEET FOR WEB STIFFENER SIZE & ATTACHMENT.

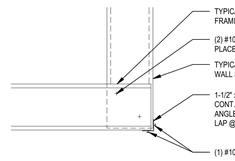
7 STEEL STUD HEADER SECTION

SCALE: 3" = 1'-0"



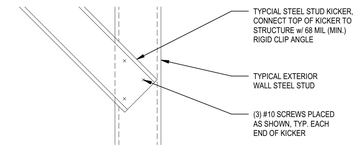
8 STEEL STUD SILL SECTION

SCALE: 3" = 1'-0"



9 TYPICAL SOFFIT CONNECTION

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



10 TYPICAL KICKER CONNECTION

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

NOTES:

1. DETAIL REQUIRED AT ALL EXTERIOR WALL OPENINGS 1' - 4" OR GREATER IN WIDTH.

2. ALL STUDS & TRACKS SHALL MATCH WALL STUD SIZE & THICKNESS, U.N.O.

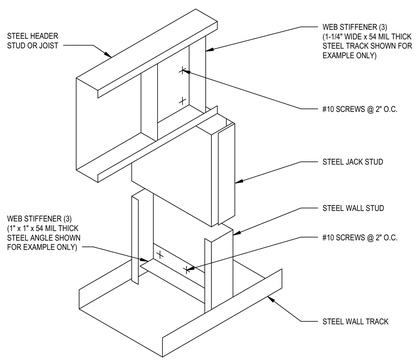
3. DETAIL TYP. EACH SIDE OF OPENING.

4. ENDS OF SOME MEMBERS ARE SHOWN STAGGERED FOR CLARITY.

5. THICKNESS OF CLIP ANGLES SHALL NOT BE LESS THAN THE THICKNESS OF ANY PART JOINED OR 54 MIL.

11 TYPICAL WALL OPENING DETAIL

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



NOTES:

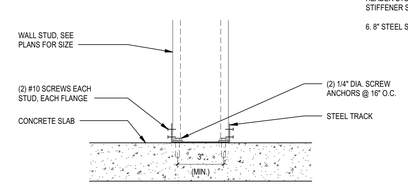
1. EDGE OF WEB STIFFENER SHOULD BE 3/4" FROM EDGE OF STUD.

2. ONLY FASTENERS FOR WEB STIFFENER ATTACHMENT SHOWN FOR CLARITY.

3. 1" x 1" x 54 MIL THICK STEEL ANGLES OR 1-1/4" WIDE x 54 MIL THICK STEEL TRACKS SHALL BE USED FOR ALL WEB STIFFENERS.

12 WEB STIFFENER CONNECTION DETAIL

SCALE: 3" = 1'-0"



NOTES:

1. APPROVED SCREW ANCHORS, INSTALL PER MANUF. RECOMMENDATIONS:
   - SIMPSON STRONG-TIE: SCREW ANCHOR = TTN25114H
   - HILTI: SCREW ANCHOR = KWIK-CON II+ 14-114 THWH

13 STEEL STUD UPLIFT CONNECTION

SCALE: 3" = 1'-0"

EXTERIOR FRAMING STEEL STUD HEADER SCHEDULE (1)

WALL STUD WIDTH	BUILT-UP HEADER COMPONENTS		KING STUDS		MAXIMUM OPENING LENGTH
	TRACK (3)	STUD (2)(3)(4)	DESIGNATION	#	
6"	600T125-54	600S162-54	600S162-54	1	5'-0"
				2	8'-0"
8"	800T125-54	600S162-54	600S162-54	1	5'-0"
				2	8'-0"

NOTES:

1. TABLE SHALL BE USED FOR EXTERIOR WALLS ONLY (UNLESS NOTED OTHERWISE)

2. HEADER STUDS 54 MIL. & THICKER SHALL NOT HAVE WEB PUNCHOUTS.

3. HEADER STUDS & TRACKS SHALL BE OF THE SAME THICKNESS & STEEL GRADE AS WALL STUDS. HEADER TRACK WIDTHS SHALL ALSO BE OF THE SAME WIDTH AS WALL STUDS.

4. STUD THICKNESSES SHOWN IN TABLE ARE MINIMUM REQUIRED, LARGER THICKNESSES MAY BE SUBSTITUTED.

5. WEB STIFFENERS ARE REQUIRED ABOVE BEARING POINTS AT ENDS OF BACK-TO-BACK HEADER STUDS. SEE WEB STIFFENER CONNECTION DETAIL THIS SHEET FOR WEB STIFFENER SIZE & ATTACHMENT.

6. 8" STEEL STUD WALL ON GRID 1. SEE SHEET S5.02 FOR ADDITIONAL REQUIREMENTS.

LINTEL SCHEDULE

MARK	LINTEL (SEE SHEET S5.01 FOR TYPICAL MASONRY LINTEL DETAIL)	SCHEMATIC
M1	2 COURSES W/ (1) #6 @ BOT. - BEAR ON (1) CELL (8"), VERT. REINF. TO MATCH WALL, GROUTED SOLID FULL HEIGHT, EACH END	
M2	3 COURSES W/ (1) #6 @ BOT. - BEAR ON (1) CELL (8"), VERT. REINF. TO MATCH WALL, GROUTED SOLID FULL HEIGHT, EACH END	
M3	4 COURSES W/ (1) #6 @ BOT. - BEAR ON (2) CELLS (16"), VERT. REINF. TO MATCH WALL, GROUTED SOLID FULL HEIGHT, EACH END	
M4	4 COURSES W/ (1) #8 @ BOT. - BEAR ON (2) CELLS (16"), VERT. REINF. TO MATCH WALL, GROUTED SOLID FULL HEIGHT, EACH END	
M5	6 COURSES W/ (1) #6 @ BOT. - BEAR ON (2) CELLS (16"), VERT. REINF. TO MATCH WALL, GROUTED SOLID FULL HEIGHT, EACH END	
L1	4x4x3/8" ANGLE LOOSE LAID w/ 8" BEARING EACH END, GALVANIZED	
L2	6x4x3/8" ANGLE (LLV) LOOSE LAID W/ 8" BEARING EACH END, GALVANIZED	
L3	(2) - W8x18 W/ 3/8" X 4" PLATE WELDED TO BOTTOM FLANGES. EXTEND BEAMS 12" PAST EA. END OF OPNG. & BEAR ON 12" CMU GROUTED SOLID FULL HEIGHT. WELD PLATE TO BTM. FLANGES OF BEAMS W/ 3/16" X 2" LONG FILLET WELDS @ 4" OC. EA. SIDE.	
S1	2-C6x16 GA STUDS (6" DIMENSION VERT) W/ 16 GA DEEP LEG TRACK TOP AND BTM (WIDTH OF TRACK EQUAL TO WIDTH OF WALL, PROVIDE DBL STUDS AT BEARING AND SINGLE FULL-HEIGHT STUD AT EACH END OF LINTEL	
S2	2-C8x16 GA STUDS (8" DIMENSION VERT) W/ 16 GA DEEP LEG TRACK TOP AND BTM (WIDTH OF TRACK EQUAL TO WIDTH OF WALL, PROVIDE DBL STUDS AT BEARING AND SINGLE FULL-HEIGHT STUD AT EACH END OF LINTEL	

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SHEET HISTORY:

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Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

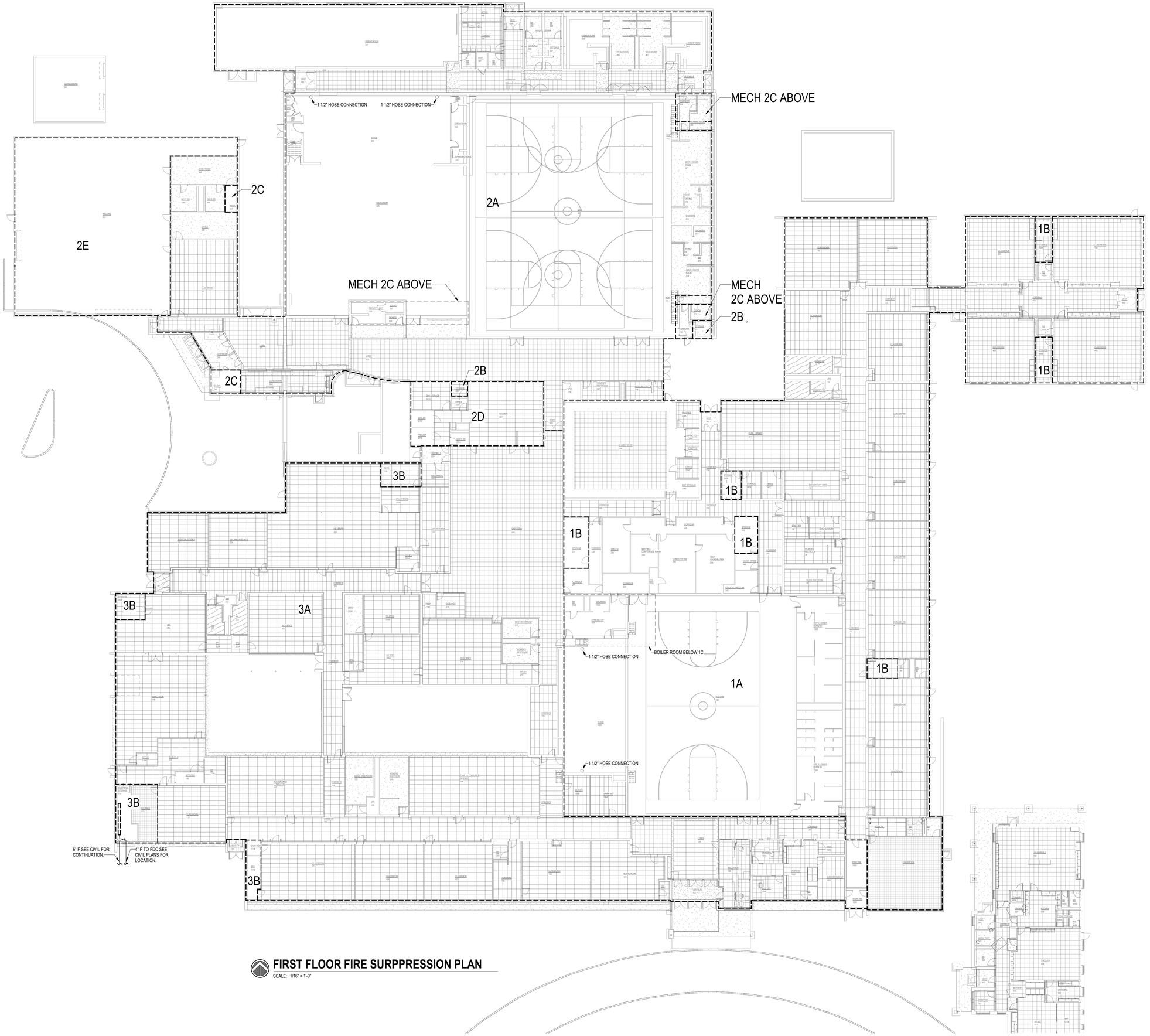
November 18, 2022

DRAFT

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Typical Structural Stud Wall Framing & CMU Details

S5.01



FIRST FLOOR FIRE SURPPRESSION PLAN

SCALE: 1/16" = 1'-0"

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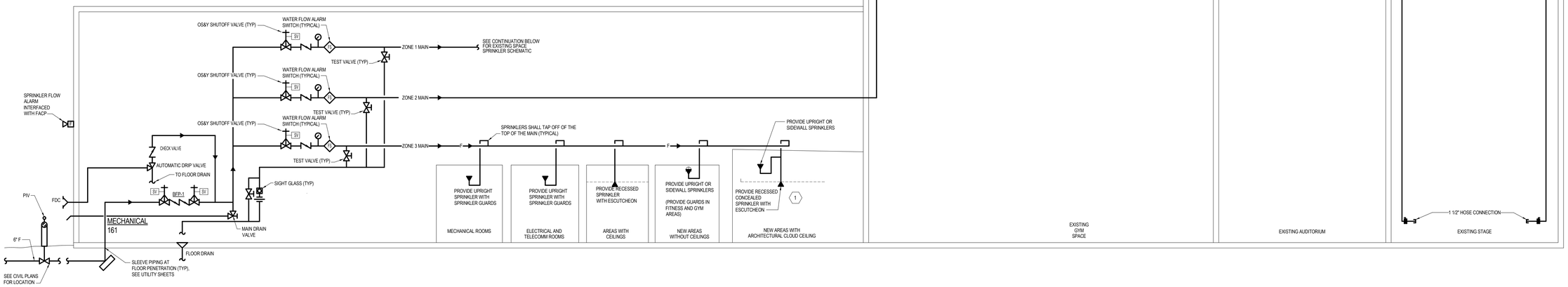
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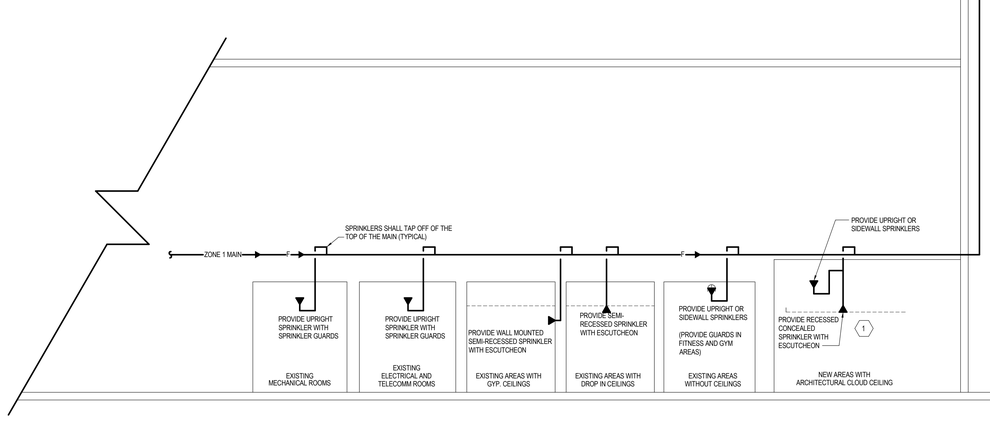
November 18, 2022

First Floor Fire Suppression Plan

FS1.01

Plot Time Stamp: 5/8/2023 11:54:25 AM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt





1 FIRE SUPPRESSION PIPING SCHEMATIC

NOT TO SCALE

PLAN NOTES:

1. COORDINATE SPRINKLER LAYOUT WITH ALL SUSPENDED CEILING "CLOUDS" AREAS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS. TO THE EXTENT POSSIBLE, PROVIDE COMPLETE COVERAGE WITHOUT INSTALLING SPRINKLERS IN "CLOUDS". IF SPRINKLERS ARE REQUIRED TO BE INSTALLED IN THESE AREAS, CONCEALED SPRINKLERS TO BE CENTERED IN THE "CLOUD" AREAS. IF SPRINKLERS ARE TO BE INSTALLED IN "CLOUD" AREAS, PROVIDE CUSTOM COLORED FACTORY -PAINTED CONCEALED SPRINKLER COVERS WITH CUSTOM COLOR AND LOCATIONS COORDINATED WITH ARCHITECT.

FIRE SPRINKLER SYSTEM REQUIREMENTS SCHEDULE

AREA:	AREA(S) SERVED:	SPRINKLER ZONE:	SYSTEM TYPE:	NFPA 13 SPRINKLER HAZARD CLASS :	DENSITY (GPM / SQFT):	NOMINAL SPRINKLER TEMPERATURE RATING:	SPRINKLER TYPE:	REMARKS:
1A	GENERAL SPACE (SEE PLANS)	ZONE 1	WET PIPE	LIGHT HAZARD - WET PIPE	SEE NFPA 13 LIGHT HAZARD TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5,7,8,9
1B	STORAGE ROOMS	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5
1C	MECH/ELEC ROOMS	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	175 DEG. F	QUICK-RESPONSE	1,2,3,4,5,6
2A	GENERAL SPACE (SEE PLANS)	ZONE 1	WET PIPE	LIGHT HAZARD - WET PIPE	SEE NFPA 13 LIGHT HAZARD TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5,7,8,9
2B	STORAGE ROOMS	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5
2C	MECH/ELEC ROOMS	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	175 DEG. F	QUICK-RESPONSE	1,2,3,4,5,6
2D	KITCHEN	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	175 DEG. F	QUICK-RESPONSE	1,2,3,4,5,6
2E	WELDING CLASSROOM	ZONE 3	WET PIPE	ORDINARY HAZARD - (GROUP 2) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 2 TABLE	175 DEG. F	QUICK-RESPONSE	1,2,3,4,5
3A	GENERAL SPACE (SEE PLANS)	ZONE 1	WET PIPE	LIGHT HAZARD - WET PIPE	SEE NFPA 13 LIGHT HAZARD TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5,7,8,9
3B	STORAGE ROOMS	ZONE 1	WET PIPE	ORDINARY HAZARD - (GROUP 1) WET PIPE	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	135 DEG. F	QUICK-RESPONSE	1,2,3,4,5

REMARKS:

1. WHERE CEILING IS INSTALLED, SPRINKLER HEADS ARE TO BE CONCEALED TYPE AND LOCATED IN THE CENTER OF THE LAY-IN CEILING TILES.
2. PROVIDE SPRINKLER HEAD GUARDS ON ALL FIRE SPRINKLER HEADS IN MECHANICAL ROOMS, ELECTRICAL ROOMS DATA ROOMS, GYMS, STAGE, AND OTHER AREAS SPRINKLER HEADS ARE SUBJECT TO DAMAGE.
3. DO NOT INSTALL FIRE SPRINKLERS OR PIPING IN THE MECHANICAL OR ELECTIRCAL EQUIPMENT SERVICE ACCESS AREAS.
4. PROVIDE UPRIGHT PENDANT OR SIDEWALL TYPE IN ALL AREAS WHERE THERE ARE NO CEILINGS.
5. PROVIDE UL LISTED PENETRATION SEAL THROUGH ALL RATED SEPARATIONS. MAINTAIN THE REQUIRED SEPARATION.
6. PROVIDE DRY TYPE PENDANT SPRINKLER HEAD IN FREEZER.
7. PROVIDE 1 1/2" HOSE CONNECTION ON EACH SIDE OF STAGE.
8. PROVIDE HEAVY DUTY SPRINKLER HEAD GUARDS. SPRINKGUARD OR EQUIVALENT IN GYMS, WEIGHT ROOMS, AND WRESTLING ROOM
9. PROVIDE CONCEALED SPRINKLER HEADS IN SPED SAFE AND QUIET ROOMS

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2 7 - #

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Fire Schematic

FS2.01

Plot Time Stamp: 5/9/2023 11:54:25 AM
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MECHANICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

A	COMPRESSED AIR
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
AV	ACID VENT
AW	ACID WASTE
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CHWR	CHILLED OR HOT WATER RETURN
CHWS	CHILLED OR HOT WATER SUPPLY
CI	CAST IRON
CO	CLEAN OUT
CPD	CONDENSATE PUMP DISCHARGE
CPVC	CHLORINATED POLY VINYL CHLORIDE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DB	DRY BULB
DCI	DUCTILE CAST IRON
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DW	DOMESTIC WATER
DWV	DRAINAGE/WASTE/VENT
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FIRE SUPPRESSION PIPING
FCO	FLOOR CLEAN OUT
FD	FIRE DAMPER
FD	FLOOR DRAIN
F.E.A.	FUME HOOD EXHAUST AIR
FH	FIRE HYDRANT
FL	FLOW LINE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FSD	FIRE/SMOKE DAMPER
G	GAS
GBD	GRAVITY BACKDRAFT DAMPER
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GEA	GENERAL EXHAUST AIR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HOUR
HW	DOMESTIC HOT WATER
HW 180	DOMESTIC HOT WATER, 180 DEG. F. SERVICE
HWC	DOMESTIC HOT WATER CIRCULATION
HWC 180	DOMESTIC HOT WATER CIRCULATION 180 DEG. F. SERVICE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IE	INVERT ELEVATION
KEA	KITCHEN EXHAUST AIR
KS	KITCHEN SUPPLIER
KW	KILOWATT
LA	LABORATORY AIR
LAT	LEAVING AIR TEMPERATURE
LIT	LAY IN TILE
LCW	LABORATORY COLD WATER
LFC	LOOP FIELD CONTRACTOR
LFR	LOOP FIELD RETURN
LFS	LOOP FIELD SUPPLY
LG	LABORATORY GAS
LHW	LABORATORY HOT WATER
LHWC	LABORATORY HOT WATER RECIRC.
LPR	LOW PRESSURE STEAM SUPPLY
LPS	LOW PRESSURE STEAM RETURN
LV	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MB	MIXING BOX
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MH	MAN HOLE
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT

ABBREVIATIONS

OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	MANUAL OPPOSED BLADE BALANCING DAMPER
PC	PLUMBING CONTRACTOR
PIV	POST INDICATOR VALVE
PVC	POLY VINYL CHLORIDE
RA	RETURN AIR
PW	PURE WATER
RCP	REINFORCED CONCRETE PIPE
REL A	RELIEF AIR
RG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
S	STORM
SA	SUPPLY AIR
SAN	SANITARY WASTE PIPING (OUTSIDE BUILDING)
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SP	SUMP PUMP
SS	SUB SOIL DRAIN
TAB	TEST, ADJUST AND BALANCE
TC	TEMPERATURE CONTROL CONTRACTOR
TD	TRANSFER DUCT
TOD	TOP OF DUCT
TP	TEMPERATURE/PRESSURE
TSP	TOTAL STATIC PRESSURE
TW	DOMESTIC TEMPERED WATER
TWC	DOMESTIC TEMPERED WATER CIRCULATING
V	VENT
VTR	VENT THROUGH ROOF
VUF	VENT UNDER FLOOR
W	SANITARY WASTE PIPING (INSIDE BUILDING)
W	WATER SERVICE PIPING (OUTSIDE BUILDING)
WB	WET BULB
WCO	WALL CLEAN OUT
WPD	WATER PRESSURE DROP
XE	RELOCATED EQUIPMENT, DEVICE, ETC.
XFR	TRANSFER
XFMR	TRANSFORMER
XN	NEW EQUIPMENT, DEVICE, ETC.
XR	EXISTING CONDITION TO BE REMOVED OR RELOCATED
XXX-1	EQUIPMENT MARK - SEE MECHANICAL OR PLUMBING EQUIPMENT SCHEDULES (E.G., AHU-1 - AIR HANDLING UNIT)
VB	VARIABLE AIR VOLUME BOX
VBR	VARIABLE AIR VOLUME BOX WITH REHEAT
VBF	FAN POWERED VARIABLE AIR VOLUME BOX
VBRF	FAN POWERED VARIABLE AIR VOLUME BOX WITH REHEAT

PIPING

	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	CHECK VALVE
	VACUUM BREAKER BACKFLOW VALVE 0.5- 2"
	PRESSURE REGULATING VALVE
	STRAINER
	TEMPERATURE GAUGE 3.5" STEM
	PRESSURE GAGE
	MOTOR CONTROL VALVE
	STATIC PRESSURE
	MOTOR CONTROL VALVE - 3 WAY
	STEAM TRAP - INVERTED BUCKET
	GLOBE VALVE
	3-WAY VALVE
	CIRCUIT SETTER
	MOTOR CONTROL VALVE
	SOLENOID VALVE
	BASKET STRAINER
	SANITARY/STORM DRAIN BELOW GRADE OR BELOW FLOOR
XXX	PIPING. SEE ABBREVIATION LEGEND FOR TYPE OF SERVICE. (E.G. CWS SHALL BE CHILLED WATER SUPPLY)
HB-1	HOSE BIBB - EQUIP. MARK
WH-1	WALL HYDRANT - EQUIP. MARK (NON FREEZE TYPE)
V.T.R.	VENT THRU ROOF - MARK
4" FD-1	FLOOR DRAIN, SIZE, EQUIP. MARK
4" FS-1	FLOOR SINK, SIZE, EQUIP. MARK
6" RD-1	ROOF DRAIN, SIZE, EQUIP. MARK
6" OD-1	ROOF OVERFLOW DRAIN, SIZE, EQUIP. MARK
SH-1	SHOWER HEAD - EQUIP MARK
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
CO	CLEAN OUT AT BASE OF STACK
R(T-) 8'-0" 8.0 GPM	PANEL RADIATOR - EQUIP. MARK, LENGTH, GALLONS PER MINUTE.
	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
VBR-8 1.0 GPM	VARIABLE AIR VOLUME BOX WITH REHEAT - EQUIP. MARK, FLOW RATE
	VARIABLE AIR VOLUME BOX
	LAB AIR VALVE
	REHEAT COIL

SHEET METAL

12/6	RECTANGULAR DUCT - FIRST NUMBER INDICATES SIZE SHOWN
12Ø	ROUND DUCT
12/6	OVAL DUCT - FIRST NUMBER INDICATES SIZE SHOWN
	FLEX DUCT
	TURNING VANES
	POSITIVE PRESSURE DUCT UP
	POSITIVE PRESSURE DUCT DOWN
	NEGATIVE PRESSURE DUCT UP
	NEGATIVE PRESSURE DUCT DOWN
	OVAL DUCT UP AND DOWN
	MANUAL BALANCING DAMPER
L-1 48/48	WALL LOUVER - EQUIP. MARK, SIZE
	MOTORIZED DAMPER - BLADES PARALLEL TO PAGE
	PARALLEL OR OPPOSED BLADE MOTORIZED DAMPER BLADES PERPENDICULAR TO PAGE
FD-1	FIRE DAMPER AND ACCESS DOOR - EQUIP. MARK
SD-1	SMOKE DAMPER AND ACCESS DOOR - EQUIP. MARK
FSD-1	COMBINATION FIRE/SMOKE DAMPER AND ACCESS DOOR - EQUIP. MARK
D-1 6/6 300	CEILING DIFFUSER - EQUIPMENT MARK, SIZE, CFM
R-1 12/8 300	SIDEWALL REGISTER - EQUIP. MARK, SIZE, CFM, HEIGHT AFF
G-1	CEILING RETURN GRILLE - EQUIP. MARK, SIZE, CFM
VB-8 1000	VARIABLE AIR VOLUME BOX - EQUIP. MARK, CFM
VBR-8 1000	VARIABLE AIR VOLUME BOX WITH REHEAT - EQUIP. MARK, CFM
LSV-8 1000	LABORATORY SUPPLY VALVE - MARK, DESIGN CFM
FEV-8 800	FUME EXHAUST VALVE - MARK, DESIGN CFM
GEV-8 945	GENERAL EXHAUST VALVE - MARK, DESIGN CFM
	LOW PRESSURE BRANCH 45 DEGREE ENTRY WITH BALANCING DAMPER

TEMPERATURE CONTROL

XXX	CONTROL POINT
AF	AIRFLOW MEASURING STATION
CO2	CARBON DIOXIDE SENSOR
CO2	STATIC PRESSURE SWITCH
	TEMPERATURE SENSOR WITH AVERAGING ELEMENT
MD	MOTORIZED DAMPER
SP	SMOKE DAMPER
SP	STATIC PRESSURE SENSOR
M	MOTOR
VFD	VARIABLE FREQUENCY DRIVE
T T	TEMPERATURE SENSOR/THERMOSTAT
H H	HUMIDITY SENSOR/HUMIDISTAT
C C	CARBON DIOXIDE SENSOR
S S	SENSOR
SMK	SMOKE DETECTOR
ES	DAMPER END SWITCH
MD	MOTORIZED DAMPER
MD	HUMIDIFIER
TS	PIPING TEMPERATURE SENSOR
	PIPING THERMOMETER
	PIPING PRESSURE GAUGE
DP	PIPING DIFFERENTIAL PRESSURE SENSOR
M	PIPING FLOW METER
	PIPING TWO-WAY CONTROL VALVE
	PIPING THREE WAY CONTROL VALVE

GENERAL

	CONNECTION - NEW TO EXISTING
	PIPE OR ROUND DUCT RISER
	PIPE OR ROUND DUCT DROP
	DIRECTION OF FLOW
	DOWNWARD PIPE OR DUCT PITCH
	SECTION IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
	DETAIL IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
M	ELECTRICAL MOTOR
100'-0"	ARCHITECTURAL ELEVATION
100.00'	ENGINEER ELEVATION
	ELECTRICAL PANEL
VFD-1	VARIABLE FREQUENCY DRIVE PANEL - EQUIP. MARK
(E)	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.

FIRE SUPPRESSION

	SPRINKLER BRANCH WITH HEADS
	SIAMESE CONNECTION
FHC	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
P.I.V.	POST INDICATOR VALVE
	O.S. & Y. VALVE
	FLOW SWITCH
F	FIRE PROTECTION PIPING

SCHEMATICS

N.C. C N.O.	3-WAY AUTOMATIC CONTROL VALVE - NORMALLY OPEN, CLOSED AND COMMON PORTS INDICATED
N.C.	2-WAY AUTOMATIC CONTROL VALVE - NORMALLY CLOSED
N.O.	2-WAY AUTOMATIC CONTROL VALVE - NORMALLY OPEN
N.C.	AUTOMATIC BUTTERFLY VALVE - NORMALLY CLOSED
N.O.	AUTOMATIC BUTTERFLY VALVE - NORMALLY OPEN
C N.O. N.C.	AUTOMATIC LINKED BUTTERFLY VALVES - NORMALLY OPEN, CLOSED AND COMMON PORTS INDICATED.
	MANUAL BALL VALVE FOR SHUT-OFF OR BALANCING SERVICE
SW	STOP AND WASTE BALL VALVE
	BALL VALVE WITH PRESSURE TAP
	BALL VALVE WITH PRESSURE TAP & MEMORY STOP
	BALL VALVE WITH PRESSURE & TEMPERATURE TAP
	BALL VALVE WITH PRESSURE & TEMPERATURE TAP & MEMORY STOP
	MANUAL BALANCING BALL VALVE WITH MEMORY STOP
	NORMALLY CLOSED MOTORIZED BALL VALVE
	NORMALLY OPEN MOTORIZED BALL VALVE
	VALVE BOX
	AUTOMATIC FLOW CONTROL VALVE WITH PRESSURE & TEMPERATURE TAP
	MANUAL GATE VALVE
	MANUAL GLOBE VALVE
	CALIBRATED BALANCING VALVE
	MANUAL PLUG VALVE
	MANUAL BUTTERFLY VALVE
	WHEEL OPERATED BUTTERFLY VALVE
	GAGE COCK
	CHECK VALVE
	VACUUM BREAKER
	GAS COCK
PRV-1	PRESSURE REGULATING OR REDUCING VALVE - EQUIP. MARK
	STRAINER WITH BLOWDOWN VALVE
	STRAINER
	MANUAL AIR VENT
S	REFRIGERANT SOLENOID VALVE
	FLANGE CONNECTION
	UNION
SRV-1	SAFETY RELIEF VALVE - EQUIP. MARK

GENERAL MECHANICAL NOTES:

1. GENERAL

1.1 THESE NOTES SHALL APPLY TO ALL MECHANICAL PLANS.

1.2 NOTE THAT THE MECHANICAL PLANS ARE TO A GREAT EXTENT SCHEMATIC IN NATURE AND THAT THE INFORMATION PRESENTED IS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC., AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS AT THE PROJECT SITE.

1.3 THE CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. COORDINATE INSTALLATION OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. WITH OTHER BUILDING TRADES.

1.4 SEE SPECIFICATION SECTIONS 22 05 00 AND 23 05 00 FOR OTHER GENERAL MECHANICAL REQUIREMENTS.

1.5 ALL PENETRATIONS THROUGH THE WALLS, FLOORS, OR STRUCTURE OF LABORATORY AREAS, LABORATORY SUPPORT AREAS, AND CORRIDORS SHALL BE SEALED AIRTIGHT TO MAINTAIN PROPER PRESSURE RELATIONSHIPS.

1.6 THE LOCATION AND SIZE OF ALL ITEMS SHOWN AS EXISTING WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS, AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.

1.7 ALL EXPOSED MECHANICAL ITEMS WILL BE FIELD-PAINTED. ALL ITEMS SHALL BE PROPERLY ORDERED AND PREPARED TO ACCEPT PAINT. COORDINATE EXACT REQUIREMENTS WITH PAINTING CONTRACTOR. SEE ARCHITECTURAL AND FINISH DRAWINGS AND SPECIFICATIONS FOR AREAS AND ITEMS THAT WILL BE PAINTED.

1.8 CONTRACTOR SHALL INCLUDE DEMOLITION OF ALL EXISTING CONTROL SYSTEMS FOR ALL ITEMS/EQUIPMENT SHOWN ON PLANS AS BEING REMOVED.

1.9 THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ANY SYSTEM CONTAINING REFRIGERANT WITH THE OWNER'S REPRESENTATIVE PRIOR TO REMOVAL. THE OWNER WILL RECOVER REFRIGERANT FROM SYSTEMS PRIOR TO REMOVAL BY CONTRACTOR. NOTIFY OWNER A MINIMUM OF SEVEN (7) DAYS PRIOR TO REMOVAL OF SYSTEM.

1.10 ALL ACCESS PANELS LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO FINAL INSTALLATION. ENSURE FINAL INSTALLATION LOCATION PROVIDES REQUIRED ACCESS TO ALL MECHANICAL EQUIPMENT AND ASSOCIATED COMPONENTS.

2. SITE UTILITIES

2.1 ALL CONNECTIONS TO UTILITY MAINS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE VIA WRITTEN NOTICE GIVEN A MINIMUM OF SEVEN DAYS PRIOR TO WORK.

3. DUCTWORK

3.1 ALL DUCT DIMENSIONS CALLED OUT ARE INTERIOR AIR FLOW DIMENSIONS. UNLESS OTHERWISE NOTED, ALL SUPPLY, RETURN, EXHAUST, OUTSIDE AND RELIEF AIR DUCT IS GALVANIZED STEEL. UNLESS OTHERWISE NOTED, ALL SUPPLY DUCT MITERED ELBOWS SHALL BE INSTALLED WITH TURNING VANES. ALL ROUND ELBOWS SHALL BE FULL-RADIUS TYPE. ALL ROUND-TO-RECTANGULAR BRANCH CONNECTIONS SHALL BE 45-DEGREE ENTRY LOW-LOSS FITTINGS. ALL CANOPY HOOD EXHAUST DUCTWORK SHALL BE STAINLESS STEEL AND IS SHOWN ON THE DRAWINGS AS SHADED.

3.2 ALL SUPPLY AIR DUCT SHALL BE WRAPPED WITH INSULATION UNLESS OTHERWISE NOTED OR SPECIFIED. EXHAUST AIR DUCT SHALL BE LEFT UN-INSULATED UNLESS LINER IS EXPLICITLY CALLED OUT.

3.3 ALL EXPOSED DUCTWORK SHALL BE INSTALLED IN A NEAT AND WORKMAN-LIKE MANNER FREE FROM ALL VISIBLE DENTS AND KINKS. DUCT RUNS SHALL BE STRAIGHT AND LEVEL.

4. PIPING

4.1 UNLESS OTHERWISE NOTED, MINIMUM HEATING HOT WATER SUPPLY/RETURN RUN-OUTS TO EQUIPMENT SHALL BE 3/4" SIZE.

4.2 SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPE SIZES REQUIRED AT FIXTURES. PROVIDE WATER HAMMER ARRESTORS AT COLD WATER BRANCHES AS REQUIRED BY PDI-WH201. PROVIDE ACCESS TO EACH WATER HAMMER ARRESTOR.

4.3 UNLESS NOTED OTHERWISE, WASTE AND STORM DRAINAGE PIPING HAS BEEN DESIGNED TO ACCOMMODATE A SLOPE OF 1/8" PER LINEAR FOOT FOR PIPING GREATER THAN 3" IN DIAMETER AND A SLOPE OF 1/4" PER LINEAR FOOT FOR 3" AND SMALLER DIAMETER PIPE.

4.4 PIPE HANGERS SUSPENDED FROM STRUCTURAL FLOOR OR ROOF JOIST AND SUPPORTING MORE THAN 200 LBS SHALL BE ATTACHED TO THE TOP MEMBER OF THE JOIST.

4.5 INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING SYSTEMS, INCLUDING ALL SUPPLY AND RETURN SYSTEMS. INSTALL AUTOMATIC AIR VENT AT THE HIGHEST POINT IN EACH SYSTEM WITH MANUAL SHUT-OFF BALL VALVE.

5. TEMPERATURE CONTROLS

5.1 ALL EXACT SENSOR, CONTROL PANEL AND THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER.

5.2 UNLESS OTHERWISE NOTED, ALL AIR TERMINAL UNITS, CABINET UNIT HEATERS, UNIT HEATERS, ETC. SHALL BE PROVIDED WITH A THERMOSTAT OR CONTROL DEVICE. REGARDLESS OF WHETHER ONE IS SHOWN ON THE PLANS.

5.3 UNLESS OTHERWISE NOTED, ALL THERMOSTATS SHALL BE WALL MOUNTED AT 48" A.F.F.

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SHEET HISTORY:

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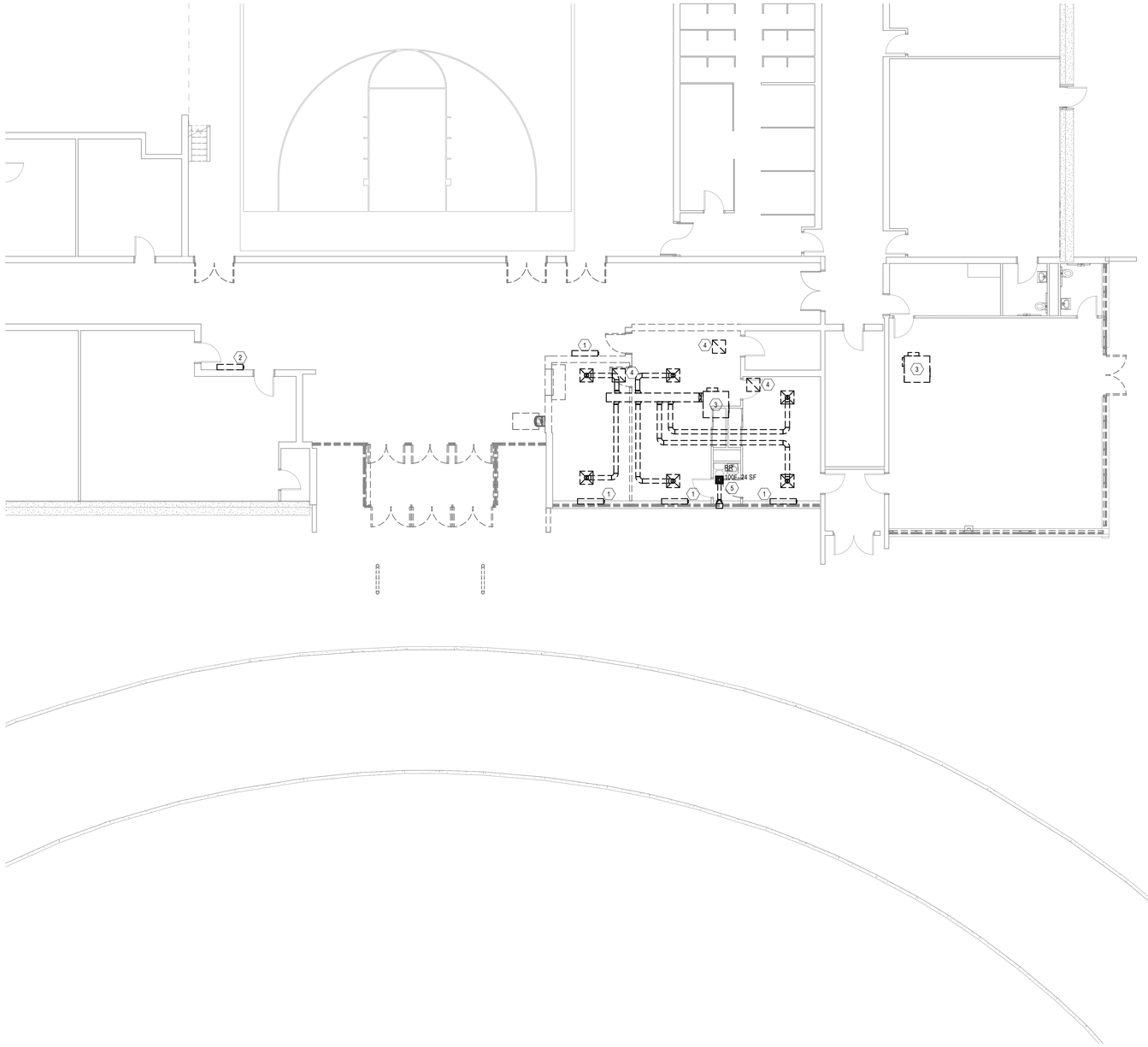
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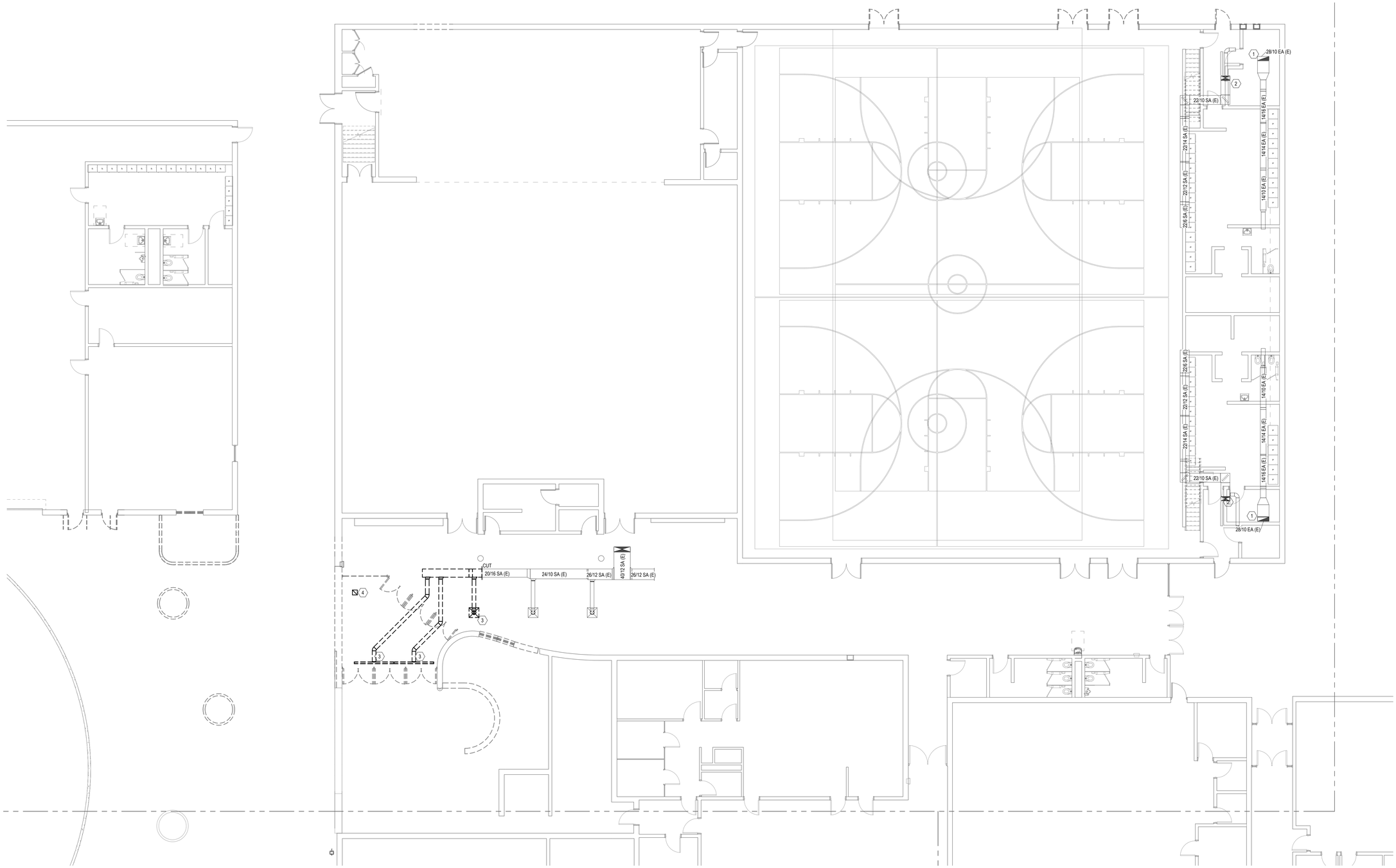
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Mechanical Abbreviations, Symbols & Notes

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FIRST FLOOR HVAC DEMOLITION PLAN - AREA C

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

1. EXISTING EXHAUST AIR DUCT TO REMAIN. DUCT TO BE CUT ABOVE FLOOR ABOVE IN A MANNER TO BE RECONNECTED DURING REMODEL.
2. EXISTING SUPPLY AIR DUCT TO REMAIN. DUCT TO BE CUT ABOVE FLOOR ABOVE IN A MANNER TO BE RECONNECTED DURING REMODEL.
3. REMOVE EXISTING DIFFUSER AND SUPPLY AIR DUCT TO LOCATION SHOWN CUT. DUCT TO BE CUT IN A MANNER TO BE RECONNECTED DURING REMODEL.
4. REMOVE RETURN AIR GRILLE AND RETURN AIR DUCT IN ITS ENTIRETY.

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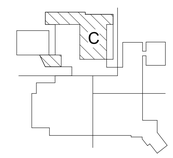
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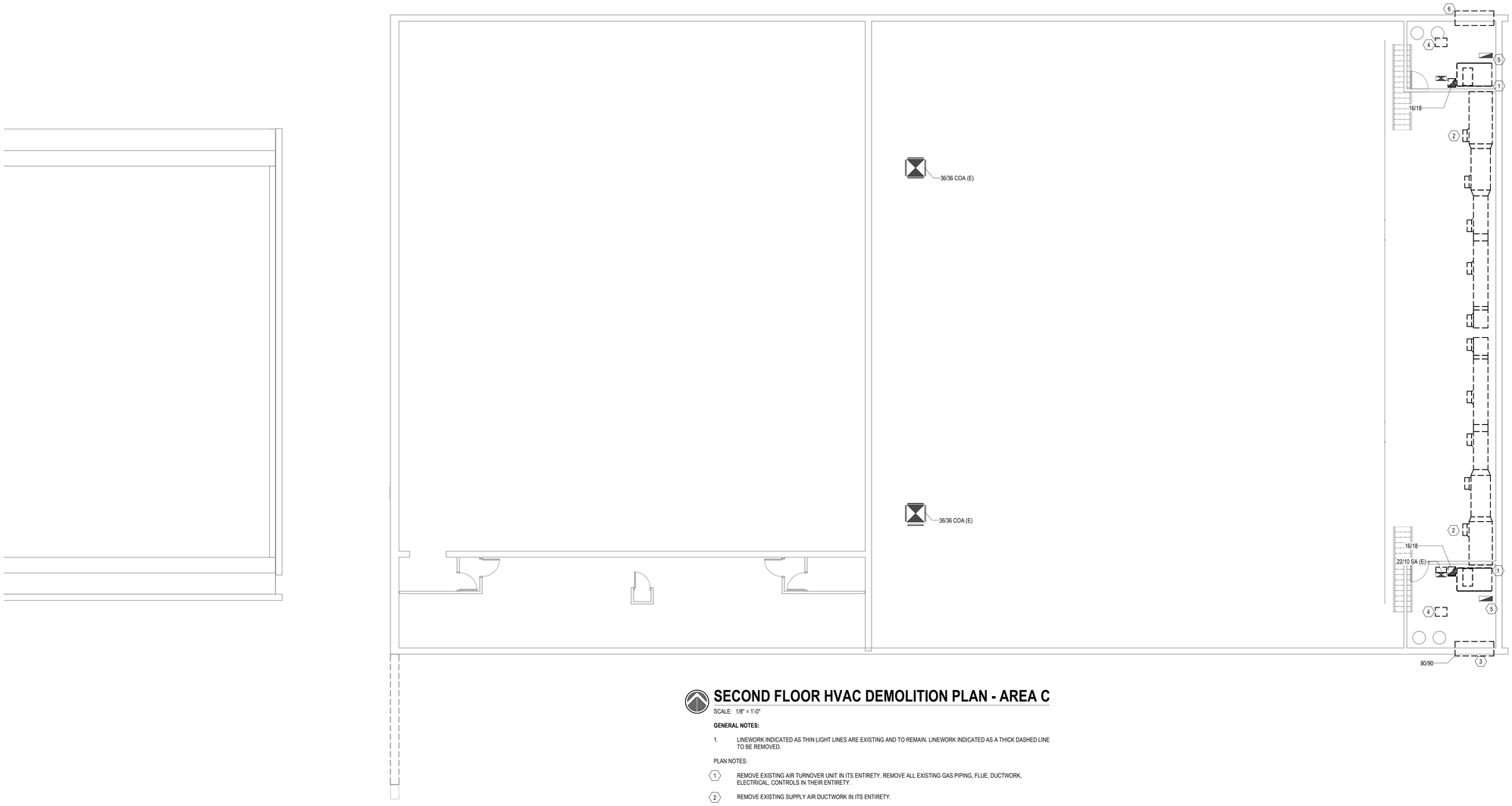
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First Floor HVAC Demolition Plan - Area C

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SECOND FLOOR HVAC DEMOLITION PLAN - AREA C

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

1. REMOVE EXISTING AIR TURNOVER UNIT IN ITS ENTIRETY. REMOVE ALL EXISTING GAS PIPING, FLUE, DUCTWORK, ELECTRICAL, CONTROLS IN THEIR ENTIRETY.
2. REMOVE EXISTING SUPPLY AIR DUCTWORK IN ITS ENTIRETY.
3. REMOVE EXISTING OA DUCT TO EXISTING LOUVER. BLANK OFF EXISTING LOUVER WITH 4" INSULATION BOARD AND SHEET METAL.
4. REMOVE EXISTING DUCT HEATER AND DUCTWORK FROM EXISTING LOUVER TO FLOOR. REMOVE EXISTING GAS PIPING, ELECTRICAL CONNECTIONS AND CONTROLS. CUT DUCTWORK AT FLOOR IN A MANNER TO RECONNECT NEW DUCTWORK DURING REMODEL. SEE REMODEL PLANS.
5. REMOVE EXISTING EA DUCT AND EXHAUST FAN IN THEIR ENTIRETY. REMOVE EXISTING ELECTRICAL AND CONTROLS. CUT EA IN A MANNER TO FACILITATE RECONNECTION DURING REMODEL. NEW EXHAUST FAN TO BE INSTALLED AT APPROXIMATELY SAME LOCATION OF EXISTING. F.V. IF EXISTING CURB CAN BE USED.
6. REMOVE EXISTING LOUVER. COORDINATE PATCHING OF OPENING WITH GENERAL CONTRACTOR.

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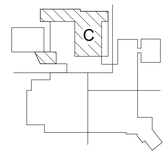
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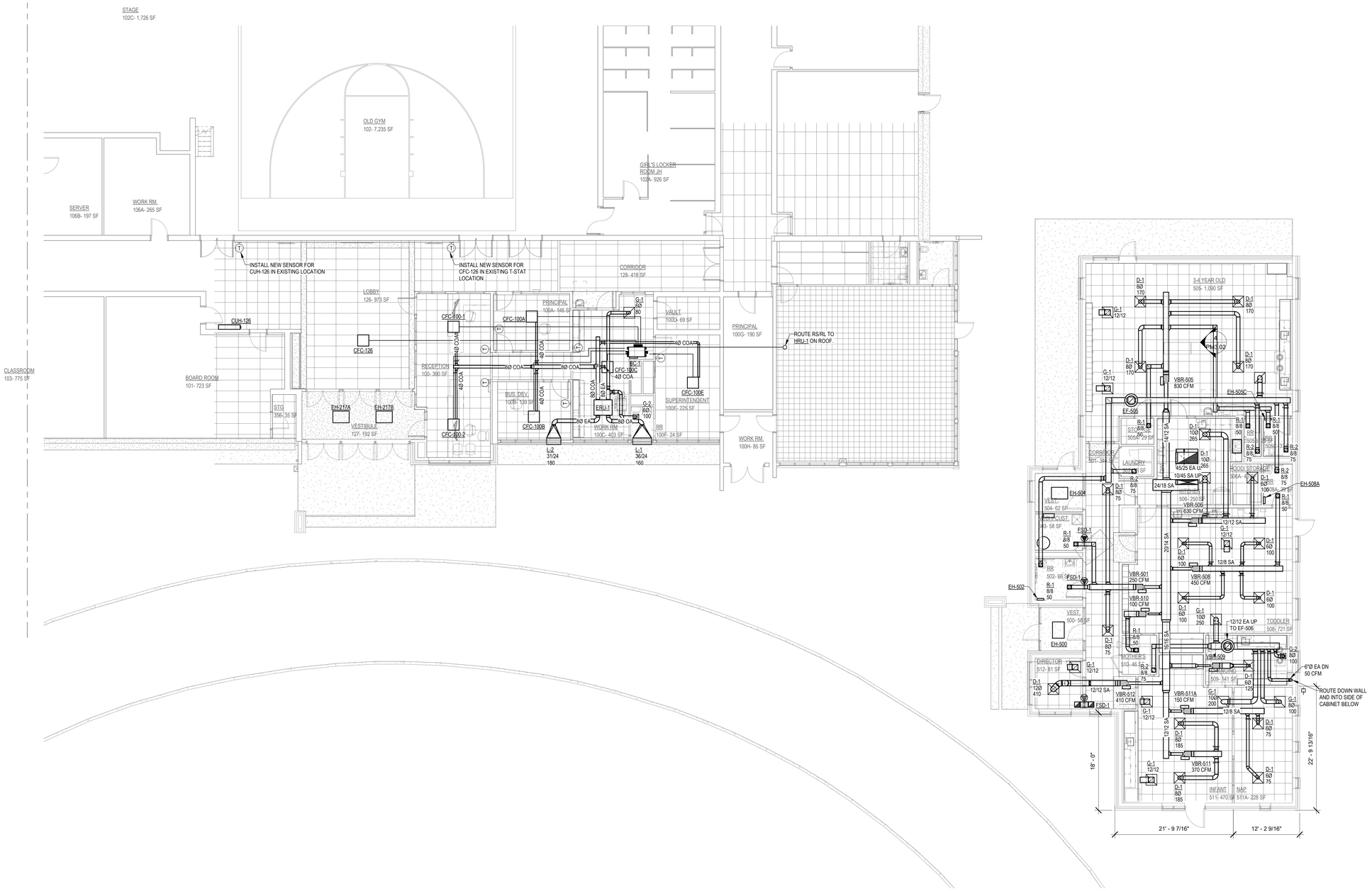
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Second Floor HVAC Demolition Plan - Area C

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FIRST FLOOR HVAC PLAN - AREA A

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

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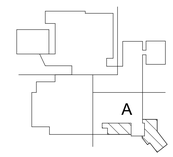
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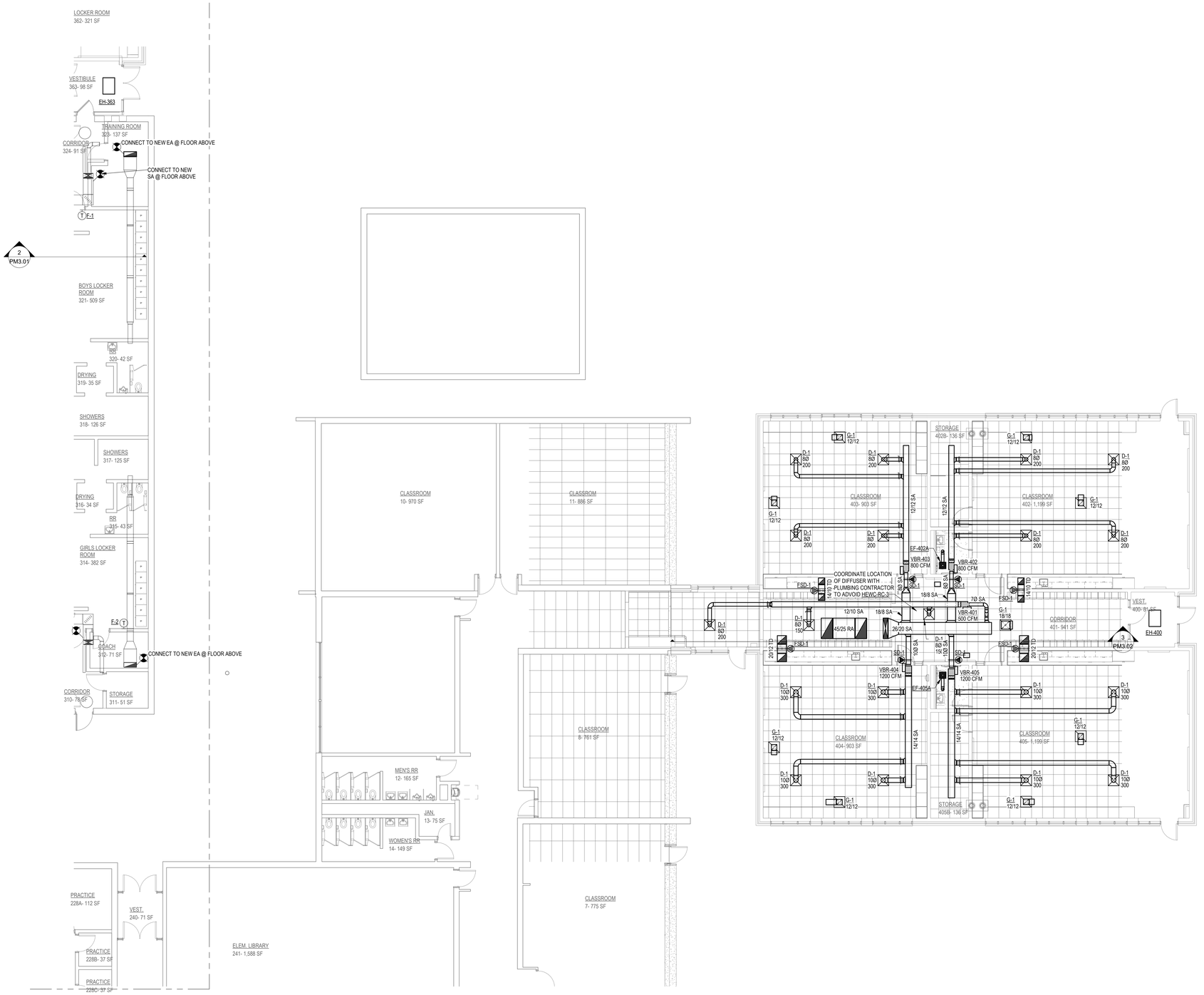
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First Floor HVAC Plan - Area A

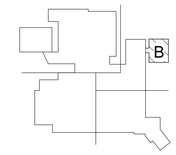
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FIRST FLOOR HVAC PLAN - AREA B

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



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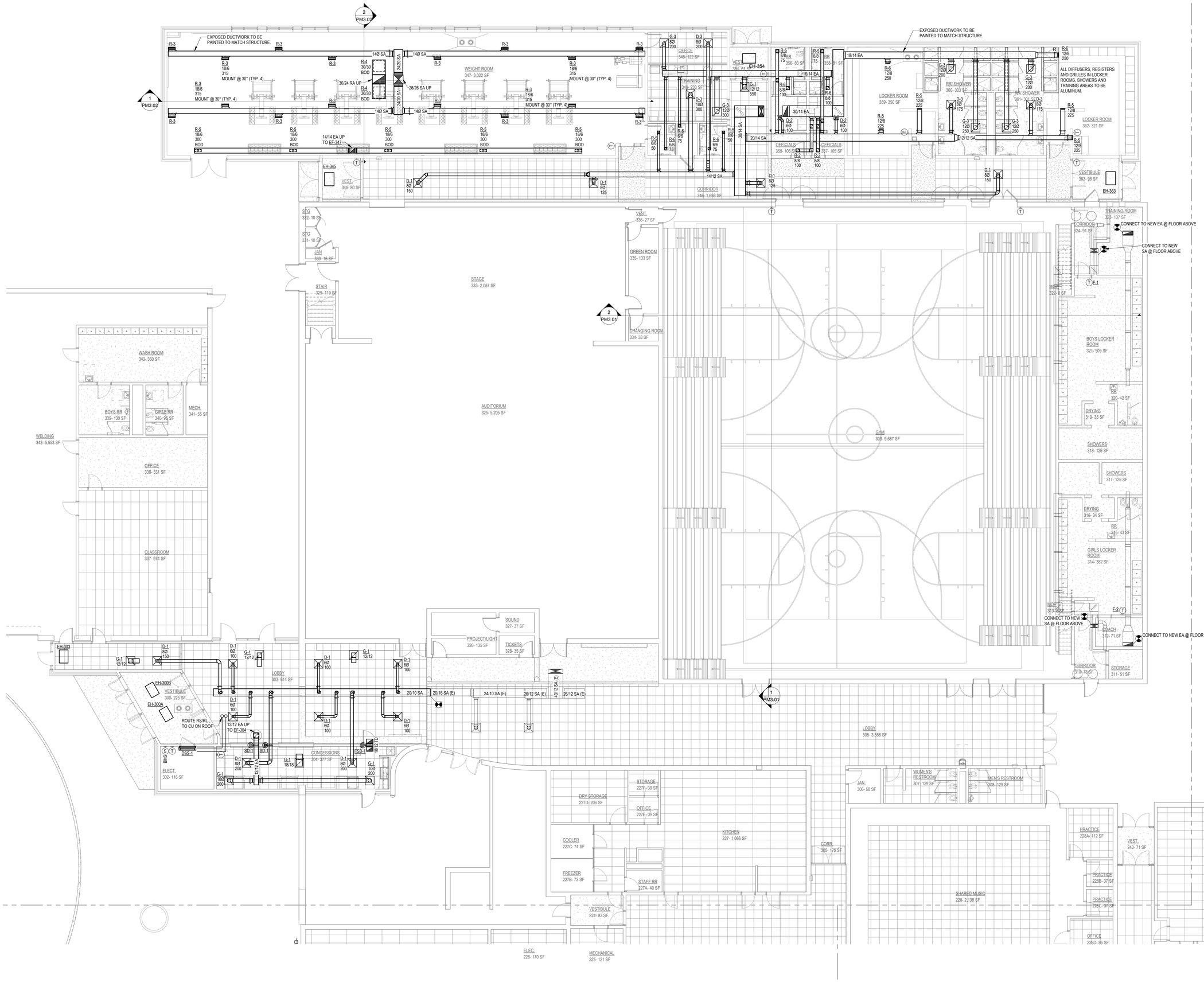
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First Floor HVAC Plan - Area B

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FIRST FLOOR HVAC PLAN - AREA C

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

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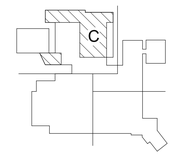
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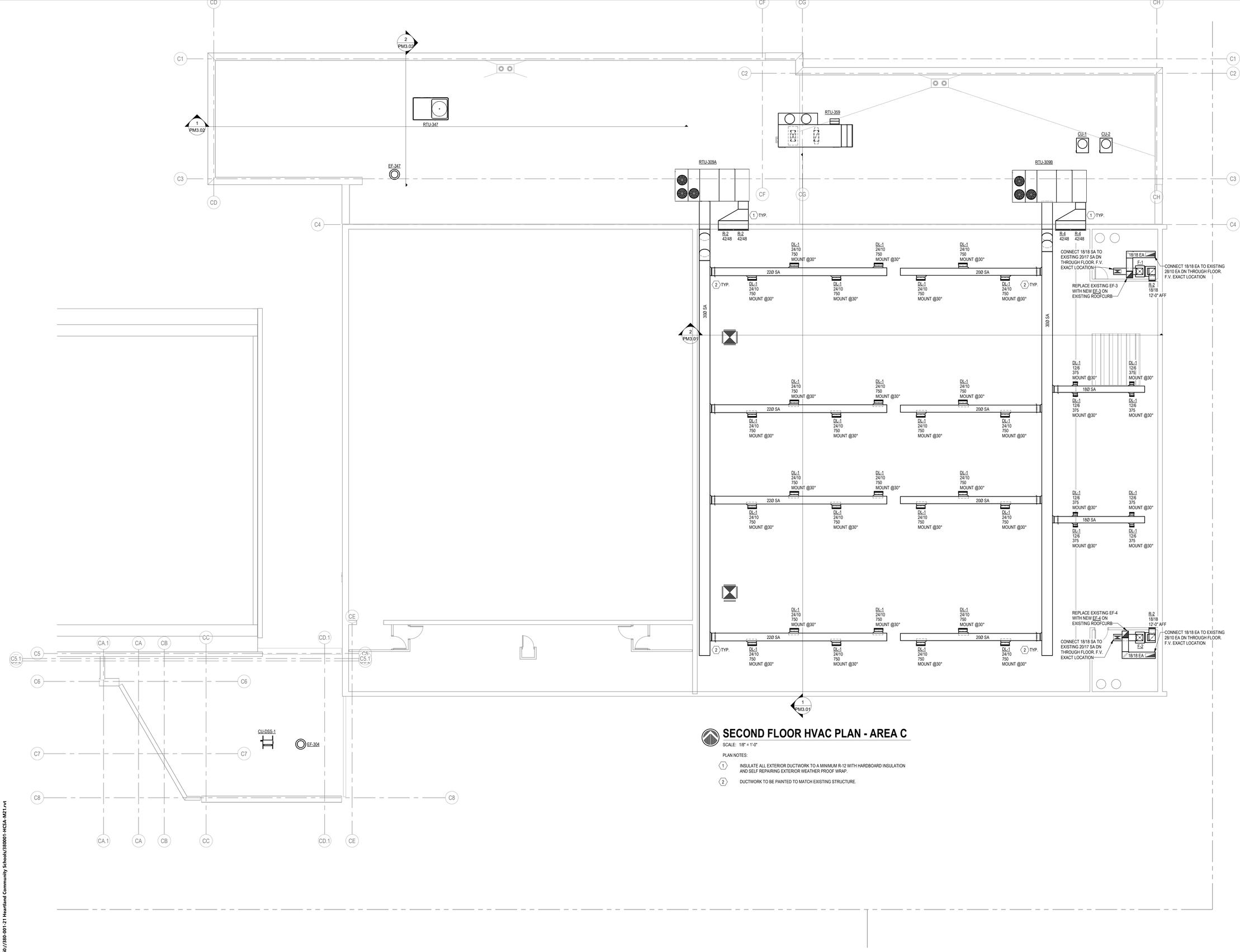
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First Floor HVAC Plan - Area C

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SECOND FLOOR HVAC PLAN - AREA C

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

PLAN NOTES:

1. INSULATE ALL EXTERIOR DUCTWORK TO A MINIMUM R-12 WITH HARDBOARD INSULATION AND SELF REPAIRING EXTERIOR WEATHER PROOF WRAP.
2. DUCTWORK TO BE PAINTED TO MATCH EXISTING STRUCTURE.

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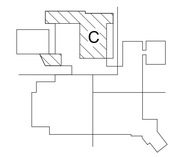
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Second Floor HVAC Plan - Area C

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VRF INDOOR UNIT SCHEDULE

Tag	Room Name	MANUFACTURER OR APPROVED EQUIVALENT	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Corrected Capacity					Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm)	Voltage / Phase	Electrical MCA/MFS	REMARKS
									Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)						
CFC-100-1	RECEPTION	TRANE/MITSUBISHI	TPLFYP005FM140A	CEILING-CASSETTE (FOUR-WAY)	5,000.0	5,600.0	75.2/63.3	68.8	FULL DEMAND	4,750.8	4,221.1	FULL DEMAND	4,756.2	1/4 / 1/2	HIGH	280	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
CFC-100-2	RECEPTION	TRANE/MITSUBISHI	TPLFYP015FM140A	CEILING-CASSETTE (FOUR-WAY)	15,000.0	17,000.0	75.3/63.5	68.4	FULL DEMAND	14,304.4	9,655.9	FULL DEMAND	14,531.3	1/4 / 1/2	HIGH	390	208/230V/1-phase	0.35/0.35/15	1, 2, 3, 4, 5, 6
CFC-100A	PRINCIPAL	TRANE/MITSUBISHI	TPLFYP005FM140A	CEILING-CASSETTE (FOUR-WAY)	5,000.0	5,600.0	75.3/63.4	68.5	FULL DEMAND	4,759.5	4,220.3	FULL DEMAND	4,779.1	1/4 / 1/2	HIGH	280	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
CFC-100B	BUS DEV	TRANE/MITSUBISHI	TPLFYP018FM140A	CEILING-CASSETTE (FOUR-WAY)	18,000.0	20,000.0	75.1/63.2	69.3	FULL DEMAND	17,071.6	11,665.5	FULL DEMAND	16,849.8	1/4 / 1/2	HIGH	460	208/230V/1-phase	0.5/0.5/15	1, 2, 3, 4, 5, 6
CFC-100C	WORKROOM	TRANE/MITSUBISHI	TPLFYP018FM140A	CEILING-CASSETTE (FOUR-WAY)	18,000.0	20,000.0	75.4/63.5	68.2	FULL DEMAND	17,165.3	11,659.7	FULL DEMAND	17,150.3	1/4 / 1/2	HIGH	460	208/230V/1-phase	0.5/0.5/15	1, 2, 3, 4, 5, 6
CFC-126	LOBBY	TRANE/MITSUBISHI	TPLFYP012FM140A	CEILING-CASSETTE (FOUR-WAY)	12,000.0	13,500.0	75.0/63.0	70.0	FULL DEMAND	11,339.4	7,935.6	FULL DEMAND	11,242.8	1/4 / 1/2	HIGH	335	208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 5, 6
CFC-100E	SUPERINTENDENT	TRANE/MITSUBISHI	TPLFYP018FM140A	CEILING-CASSETTE (FOUR-WAY)	18,000.0	20,000.0	75.4/63.5	68.2	FULL DEMAND	17,165.3	11,659.7	FULL DEMAND	17,150.3	1/4 / 1/2	HIGH	460	208/230V/1-phase	0.5/0.5/15	1, 2, 3, 4, 5, 6

REMARKS
1.Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4. See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6. It is recommended to always base heating corrected capacity on full demand.

ROOF TOP UNIT SCHEDULE

EQUIPMENT MARK:	RTU-303	RTU-309A	RTU-309B	RTU-347	RTU-359	RTU-401	RTU-506
UNIT SERVES:	CONCESSIONS	GYMNASIUM	GYMNASIUM	WEIGHT ROOM	LOCKER ROOM	CLASSROOM	PRESCHOOL
UNIT TYPE:	OUTDOOR PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING HOT GAS REHEAT	OUTDOOR PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING HOT GAS REHEAT	OUTDOOR PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING HOT GAS REHEAT	OUTDOOR PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING HOT GAS REHEAT	OUTDOOR PACKAGED ROOFTOP UNIT SINGLE ZONE CONSTANT VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING HOT GAS REHEAT ENERGY RECOVERY WHEEL DOAS	OUTDOOR PACKAGED ROOFTOP UNIT VARIABLE AIR VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING	OUTDOOR PACKAGED ROOFTOP UNIT VARIABLE AIR VOLUME NATURAL GAS HEAT AIR COOLED ELECTRIC COOLING
MANUFACTURER AND MODEL:	TRANE-YHC037E4RHA OR EQUIVALENT	TRANE-YCD360B4 OR EQUIVALENT	TRANE-YCD360B4 OR EQUIVALENT	TRANE-YSJ150A4SQH OR EQUIVALENT	TRANE- HORIZON OADG010C1 OR EQUIVALENT	TRANE HA OR EQUIVALENT	TRANE-YSJ090A4S0H OR EQUIVALENT
FILTER:							
MEDIA TYPE	2" MERV 8	2" MERV 13	2" MERV 13	2" MERV 13	2" MERV 8	2" MERV 13	2" MERV 13
AIRFLOW (CFM)	1,200	12,000	12,000	5,000	3000 SA/ 3000 EA	4,000	2,600
COOLING COIL:							
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
TOTAL COOLING CAPACITY	36.21 MBH	368.1 MBH	282.5 MBH	151.6 MBH	133 MBH	177 MBH	123.7 MBH
SENSIBLE COOLING CAPACITY	26.8 MBH	282.5 MBH	282.5 MBH	116.2 MBH	88.1 MBH	122 MBH	84.7 MBH
ENTERING AIR TEMPERATURE	80 DB/67 WB	80.2 DB/67.4 WB	80.2 DB/67.4 WB	78.4 DB/65.9 WB	80.1 DB/ 67.7 WB (FROM WHEEL)	83.1 DB/ 68.3 WB	84.7 DB/ 69.2 WB
LEAVING AIR TEMPERATURE	60.5 DB/57.79 WB	58.6 DB/57.7 WB	58.6 DB/57.7 WB	56.8 DB/55.8 WB	53.5 DB/53.2 WB	53.8 DB/53.5 WB	54.2 DB/53.8 WB
EFFICIENCY (AT ARI)	17.0 SEER	10.6 EER	10.6 EER	10.8 EER	21.7 EER	10.5 EER	11.4 EER
NUMBER/# COMPRESSORS	1.0	-	-	1.0	2.0	2.0	-
COMPRESSORS STAGES	2	-	-	3	DIGITAL SCROLL 1ST CIRCUIT	-	-
HEATING:							
TYPE	GAS FIRED	GAS FIRED	GAS FIRED	GAS FIRED	GAS FIRED	GAS FIRED	GAS FIRED
CONSTRUCTION	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER	STAINLESS STEEL BURNER
INPUT (MBH)	100	600	600	250	250	300	200
OUTPUT (MBH)	80	480	480	203	200	240	160
OUTSIDE AIR FLOW RATE (CFM)	100	3150.0	3150.0	865.0	3000.0	1390.0	1090.0
MIXED AIR TEMPERATURE	65.0	49.2 DEG F	49.2 DEG F	56.4 DEG F	47.1 DEG F (FROM WHEEL)	42.8 DB	37.8 DB
LEAVING AIR TEMPERATURE	120 DEG F	86.5 DEG F	86.5 DEG F	100.3 DEG F	108.6 DEG F	-	-
DEHUMIDIFICATION							
TYPE	HOT GAS REHEAT	HOT GAS REHEAT	HOT GAS REHEAT	HOT GAS REHEAT	HOT GAS REHEAT	-	-
LEAVING AIR TEMPERATURE	74	73.0 DB/64.0 WB	73.0 DB/64.0 WB	73.0 DB/64.0 WB	72 DB/60.5 WB	-	-
MOISTURE REMOVAL (GAL/HR)	1.06	0.23	0.23	52.68	109.41 LB/HR	-	-
FAN SECTION:							
TYPE	SUPPLY FAN	SUPPLY FAN	SUPPLY FAN	SUPPLY FAN	SUPPLY FAN/EXHAUST FAN	SUPPLY FAN	SUPPLY FAN
AIRFLOW (CFM)	1,200	12,000	12,000	5,000	3000/3000	4,000	2,600
EXTERNAL STATIC PRESSURE	0.50	2.41	2.41	1.63	1/1	1.50	1.50
FAN QUANITY	1.00	1.00	1.00	1.00	1/1	1.00	1.00
FAN HP	0.75	10	10	4.7	2/2	3	3
MOTOR VOLTAGE / HERTZ / PHASE	208/60/3	208/60/3	208/60/3	208/60/3	208/60/3	208/60/3	208/60/3
VIBRATION ISOLATORS	MINIMUM 1"	MINIMUM 1"	MINIMUM 1"	MINIMUM 1"	MINIMUM 1"	MINIMUM 1"	MINIMUM 1"
ADDITIONAL REMARKS:	1, 2, 3, 4, 5, 6, 7, 8, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13	1, 2, 3, 4, 5, 6, 7, 8, 9, 11	1, 2, 3, 4, 5, 6, 7, 8, 11, 12	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8

REMARKS:
1) ALL ROOFTOP CONTROLS MANUFACTURER. CONNECT TO EXISTING BMS WITH BACNECT. COORDINATE ALL NECESSARY ACCESSORIES WITH TEMPERATURE CONTROL CONTRACTOR
2) PROVIDE 1/2" FOIL FACED CLOSED CELL INSULATION OR BETTER ON ALL SECTIONS
3) PROVIDE WITH UNIT MOUNTED DISCONNECT
4) PROVIDE WITH FACTORY 18" VIBRATION ISOLATION ROOF CURB UNLESS INDICATED OTHERWISE. PROVIDE SLOPED CURB TO ACCOMMODATE SLOPED STRUCTURE WHERE NECESSARY. HEIGHT TO BE ADJUSTED AS NECESSARY TO ACCOMMODATE ROOF CONSTRUCTION INSULATION.
5) PROVIDE WITH FACTORY MOUNTED POWERED CONVIENENCE OUTLET AND TRANSFORMER
6) PROVIDE ALL DOORS WITH HINGES, HANDLES AND GASKETS
7) INTAKE WEATHER HOOD, HAIL GAURDS, 100% ECONOMIZER, SS OR PLYMER DRAIN PAN.
8) PROVIDE WITH STAGED GAS HEAT
9) PROVIDE WITH CO2 MONITORING AND DAMPER OA MODULATION (SENSOR BY TEMPERATURE CONTROL CONTRACTOR)
10) PROVIDE WITH ON/OFF HOT GAS REHEAT
11) PROVIDE WITH MODULATING HOT GAS REHEAT
12) PROVIDE WITH ENERGY RECOVERY WHEEL
13) PROVIDE WITH MODULATING POWERED EXHAUST FAN

AIR TERMINAL UNIT SCHEDULE

MARK:	SERVES:	INLET SIZE (IN. DIA.):	MAXIMUM CFM:	HEATING CFM:	MINIMUM CFM:	NC @ 2" APD:	EAT DEG. F	LAT DEG. F	ELECTRICAL DATA				DUCT OUTLET SIZE	MANUFACTURER AND MODEL OR EQUIVALENT:	REMARKS:
									HEATING COIL KW	VOLTS/PH/HZ	MCA AMPS	MOP AMPS			
VBR-401	CORRIDOR	8	500	200	150	24	55.0	92.9	3	208/1	18.0	20	12x10	TITUS DESV	1,2,3,4,5,6
VBR-402	CLASSROOM	9	800	400	300	24	55.0	90.6	4.5	208/1	27.0	30	14x12.5	TITUS DESV	1,2,3,4,5,6
VBR-405	CLASSROOM	12	1200	500	350	24	55.0	91.9	7	208/1	42.1	45	16x15	TITUS DESV	1,2,3,4,5,6
VBR-403	CLASSROOM	9	800	400	300	24	55.0	90.6	4.5	208/1	27.0	30	14x12.5	TITUS DESV	1,2,3,4,5,6
VBR-404	CLASSROOM	12	1200	500	350	24	55.0	91.9	7	208/1	42.1	45	16x15	TITUS DESV	1,2,3,4,5,6
VBR-501	CORRIDOR	6	250	100	100	24	55.0	92.9	1.5	208/1	9.0	15	12x8	TITUS DESV	1,2,3,4,5,6
VBR-512	DIRECTOR	7	410	150	100	24	55.0	93.5	2.5	208/1	15.0	15	12x10	TITUS DESV	1,2,3,4,5,6
VBR-505	3-4 YEAR OLDS	9	830	400	300	24	55.0	91.7	5	208/1	30.0	30	14x12.5	TITUS DESV	1,2,3,4,5,6
VBR-506	KITCHEN	9	630	300	200	24	55.0	90.1	3.5	208/1	21.0	25	14x12.5	TITUS DESV	1,2,3,4,5,6
VBR-508	TODDLER	7	450	200	125	24	55.0	90.1	2.5	208/1	15.0	15	12x10	TITUS DESV	1,2,3,4,5,6
VBR-510	MOTHERS	4	100	50	50	24	55.0	97.1	1	208/1	6.0	15	12x8	TITUS DESV	1,2,3,4,5,6
VBR-511	INFANT	8	500	250	100	24	55.0	92.9	3	208/1	18	20	12x10	TITUS DESV	1,2,3,4,5,6
VBR-511A	NAP	7	400	200	100	24	55.0	94.5	2.5	208/1	15	15	12x10	TITUS DESV	1,2,3,4,5,6
VBR-509	CHANGING	4	125	50	50	24	55.0	97.1	1	208/1	6.0	15	12x8	TITUS DESV	1,2,3,4,5,6

REMARKS:
1. UNIT AIR PRESSURE DROPS LISTED ARE AT DESIGN CONDITIONS.
2. CROSS-TYPE FLOW SENSING GRID AND DAMPER SHALL BE PROVIDED BY AIR TERMINAL UNIT MANUFACTURER. DAMPER ACTUATOR, VELOCITY CONTROLLER, AND OTHER CONTROL COMPONENTS ARE TO BE FIELD PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.
3. AIR TERMINAL UNITS SHALL BE PROVIDED WITH TITUS FIBER FREE INSULATED CASING OR EQUIVALENT.
4. AIR TERMINAL UNITS SHALL BE PROVIDED WITH INTEGRAL SOUND ATTENUATOR LOCATED WITHIN ELECTRIC COIL SECTION.
5. AIR TERMINAL UNIT SHALL BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH
6. ELECTRIC HEATING COIL TO BE MODULATING

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Mechanical Schedules

M4.01

Plot Time Stamp: 5/9/2023 11:54:45 AM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt

VRF OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER OR APPROVED EQUIVALENT	MODEL NUMBER	MODULES	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER [SEER]	Heating COP @ 47°F [HSPF]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Max Pipe Length from BC or 1st Joint (feet)	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Inverter Driven Compressor Type / Quantity	Preliminary Added Field Charge (See Note 5)	Electrical-Per Module 208/230 or [460V]				REMARKS
																		Voltage / Phase	MCA 208	RFS	MOCP	
HRU-1	TRANE/MITSUBISHI	TURYH0963AN40AN	P96	96,000.0	108,000.0	23.2 / 13.65	4.01	94.8%	95.0	-13.0	30.0	3/4 / 7/8	96,201.6	86,460.0	58.5/60	SCROLL/1	19.5	208/230V / 3-phase 3-wire	44/40	70/60	70/60	1, 2, 3, 4, 5

REMARKS:
1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3. Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4. For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
5. Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
6. Provide with 12" factory stands for roof mounting

UNIT HEATER SCHEDULE

MARK:	TYPE:	MEDIAN:	HEATING COIL DATA NOMINAL CFM:	CAPACITY (MBH):	EWT (DEG. F):	GPM:	ROWS:	EAT (DEG. F):	WPD (FT.):	INLET STYLE:	OUTLET STYLE:	FAN DATA HP:	FAN SPEEDS:	MOTOR DATA V/P/HZ:	MCA:	MANUFACTURER OR EQUIVALENT:	MODEL:	REMARKS:
CUH-126	B	HEATING WATER	400	26.2	180	2.8	2	70	6.7	FRONT TOE KICK BAR GRILLE	FRONT STAMP GRILLE	.055	3	208/1/60	1.75	TRANE	FFB8040	1,2,3,4

TYPE:
A- HORIZONTAL RECESSED CEILING MOUNTED CABINET UNIT HEATER
B- FLOOR MOUNTED VERTICAL CABINET UNIT HEATER
C- VERTICAL RECESSED WALL MOUNTED CABINET UNIT HEATER
D- HORIZONTAL LOUVER DISCHARGE UNIT HEATER

REMARKS:
1. PROVIDE WITH INTEGRAL MOTOR STARTER, DISCONNECT, MANUAL AIR VENT, AND ALL REQUIRED MOUNTING AND INSTALLATION ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WITH CONTROL TRANSFORMER .BY PRODUCT MANUFACTURER.
2. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE MODULATING CONTROL VALVE AND ACTUATOR.
3. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE HARD-WIRED, WALL-MOUNTED THERMOSTAT.
4. PROVIDE WITH 1" THROWAWAY MERV 8 FILTER.

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK:	SERVES:	COOLING CAPACITY (BTU/H):	HP HEATING CAPACITY @ 47F (BTU/H):	EER:	SEER:	CFM AT DRYCOIL AT FAN SPEED LO-M-HI:	ENTERING AIR (EDB/EWB):	AMBIENT AIR (DEG. F):	REFRIGERANT TYPE:	ELECTRICAL CHARACTERISTICS (VOLTS / PHASE / HZ):	INDOOR ELEC. (MCA):	OUTDOOR ELEC. (MCA):	MANUFACTURER OR EQUIVALENT:	INTERIOR BLOWER COIL MODEL (DSS):	OUTDOOR UNIT MODEL (CU):	REMARKS:
DSS-1 / CU-1	ELECTRICAL ROOM	24,000	28,000	12.2	21.4	635-705-775	80/67	95	R410A	208 / 1 / 60	2	25	MITSUBISHI	PKA-A24KA7	PUZ-A24NHA7-BS	1,2,3,4,5,6,7

REMARKS:
1. BOTH INDOOR UNIT AND OUTDOOR UNIT SHALL BE POWERED WITH A SINGLE POINT ELECTRICAL CONNECTION AT THE OUTDOOR UNIT. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT ON BOTH INDOOR AND OUTDOOR UNITS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
2. PROVIDE R-410A REFRIGERANT CHARGE, CONDENSER COIL GUARD, THERMAL EXPANSION VALVE, AND FILTER DRYER.
3. PROVIDE STANDARD FIVE (5) YEAR WARRANTY ON ALL PARTS AND LABOR, PROVIDE A SEVEN (7) YEAR WARRANTY ON COMPRESSOR
4. PROVIDE ALL REQUIRED REFRIGERANT LINE SETS AND PIPING ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS. INSTALL AN ALUMINUM JACKET SHIELD ON EXTERIOR EXPOSED INSULATION.
5. ROUTE REFRIGERANT LINE SETS FROM DSS TO CU ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT LINE SET DISTANCE AND VERTICAL RISE FALL WITHIN MAXIMUM RECOMMENDED VALUES.
6. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
7. PROVIDE OPTIONAL WIRED WALL-MOUNTED CONTROLLER (PAR-31MAA OR EQUIVALENT) AND MANUFACTURER ENABLE / DISABLE FROM BAS.

EXHAUST FAN SCHEDULE

MARK	SERVES	FAN PERFORMANCE DATA PRIMARY EXHAUST (CFM)	INLET E.S.P. (IN. W.G.)	FAN RPM	FAN DISHCARGE	IMPELLER DRIVE	MOTOR DATA MOTOR HP	MOTOR FLA (AMPS)	ELECTRICAL DATA VOLTS	PHASE	HZ	MANUFACTUER OR EQUIVALENT	MODEL	ACCESSORIES	REMARKS
EF-3	EXISTING LOCKER ROOM	1,475	0.25	687	DOWNBLAST	BELT	1/4	5.8	120	1	60	GREENHECK	GB-160	2,3,4,5,6,7	1,2
EF-4	EXISTING LOCKER ROOM	1,725	0.25	750	DOWNBLAST	BELT	1/4	5.8	120	1	60	GREENHECK	GB-160	2,3,4,5,6,7	1,2
EF-304	CONCESSIONS	400	0.25	1197	DOWNBLAST	DIRECT	1/10	1.5	120	1	60	GREENHECK	G-90-VG	1,2,3,4,5	2
EF-347	WEIGHT ROOM	1,500	0.50	1090	DOWNBLAST	DIRECT	1/2	6.6	120	1	60	GREENHECK	G-140-VG	1,2,3,4,5	2
EF-402A	RESTROOM	50	0.50	685	CEILING	DIRECT	-	0.29	120	1	60	GREENHECK	SP-LP0511		
EF-405A	RESTROOM	50	0.50	685	CEILING	DIRECT	-	0.29	120	1	60	GREENHECK	SP-LP0511		
EF-505	DAYCARE	1,000	0.50	1362	DOWNBLAST	DIRECT	1/4	3.8	120	1	60	GREENHECK	G-120-VG	1,2,3,4,5	2
EF-506	PRESCHOOL	850	0.50	1362	DOWNBLAST	DIRECT	1/4	3.8	120	1	60	GREENHECK	G-100-VG	1,2,3,4,5	2

1. 18" HIGH INSULATED ROOF CURB
2. CURB MOUNTED GRAVITY BACKDRAFT DAMPER
3. BIRDSCREEN
4. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH AND STARTER
5. THERMAL OVERLOAD PROTECTED MOTOR
6. PROVIDE WITH BELT TENSIONER
7. MOUNT ON EXISTING ROOF CURB

REMARKS
1. MOUNT ON EXISTING ROOF CURB
2. EXHAUST FAN IS TO BE CONTROLLED BY BMS

ELECTRIC UNIT HEATER SCHEDULE

MARK	TYPE	HEATING COIL DATA NOMINAL CFM	WATTS	CAPACITY MBH	INLET STYLE	OUTLET STYLE	FAN DATA HP	FAN SPEEDS	MOTOR DATA V/P/HZ	AMPS	MANUFACTURER OR EQUIVALENT	MODEL	REMARKS
EH-513	B	250	3000	10.2	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	9	QMARK	CUH93503203	1,2,3,4,5,6,7,8,9,10
EH-1A	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-507	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-500	B	250	3000	10.2	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	9	QMARK	CUH93503203	1,2,3,4,5,6,7,8,9,10
EH-506A	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-503C	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-505C	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-508A	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-502	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-400	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-2A	A	250	2000	6.8	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	6	QMARK	CUH93502203	1,2,3,4,5,6,7,8,9,10
EH-217A	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-217B	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-363	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-354	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-345	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-300A	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-300B	B	500	6000	20.5	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	18	QMARK	CUH94506203	1,2,3,4,5,6,7,8,9,10
EH-303	B	250	3000	10.2	FRONT BAR GRILLE	FRONT BAR GRILLE	1/8	2	208/3/60	9	QMARK	CUH93503203	1,2,3,4,5,6,7,8,9,10

TYPE:
A- VERTICAL FLOOR MOUNTED CABINET UNIT HEATER
B- CEILING MOUNTED RECESSED CABINET UNIT HEATER

REMARKS:
1. PROVIDE WITH PRIMARY AUTOMATIC RESET THERMAL OVERLOAD PROTECTION
2. PROVIDE WITH MOTOR FUSING
3. PROVIDE INTERNAL RELAY TO ALLOW FOR CONTROL THROUGH BUILDING AUTOMATION SYSTEM
4. PROVIDE WITH FACTORY MOUNTED DEAD FRONT DISCONNECT SWITCH
5. PROVIDE WITH 5 YEAR WARRANTY ON ELEMENT
6. ELEMENT SHALL BE NON-GLOWING SPECIAL HIGH TEMPERATURE RESISTANCE WIRE ENCLOSED IN SHEATH
7. PROVIDE WITH SECONDARY MANUAL RESET THERMAL OVERLOAD PROTECTION
8. PROVIDE WITH HINGED ACCESS DOOR
9. PROVIDE OPTIONAL RECESS TRIM KIT
10. PROVIDE W/ MERV 8 THROWAWAY FILTER.

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Mechanical Schedules

M4.02

Plot Time Stamp: 5/8/2023 11:54:46 AM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt

ENERGY RECOVERY UNIT

MARK	SERVES	SUPPLY AIR CFM	SA ESP in. w.g.	EXHAUST AIR CFM	EA ESP in. w.g.	AMBIENT AIR SUMMER (F)	AMBIENT AIR WINTER (F)	SUPPLY AIR SUMMER CONDITIONS (LDB/LWB)	SUPPLY AIR WINTER CONDITIONS (LDB/EWB)	TEMPERATURE RECOVERY	ENTHALPY COOLING/HEATING	ELECTRICAL (VOLTS/HZ/PHASE)	MCA / MOPD (AMPS)	MANUFACTURER OR APPROVED EQUAL	MODEL NUMBER	REMARKS
ERU-1	OFFICE AREA	160	0.5	180	0.5	95	-10	80/69.8	49.4	65.5%	50% / 63%	208/1/60	4.3/15	LOSSNAY	TLGHF0300RVX02A	1,2,3,4

REMARKS:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION
2. ELECTRICAL DISCONNECT/STARTER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
3. PROVIDE REPLACEMENT FILTERS IN LIEU OF WASHABLE FILTERS
4. ERU TO BE OPERATED THROUGH VRF CONTROL SYSTEM. PROVIDE TERMINAL STRIP TO CONNECT TO CONTROL SYSTEM FOR MONITORING

DAMPER SCHEDULE

MARK:	FUNCTION:	MAX CFM:	MIN CFM:	SIZE:	BLADE STYLE:	FRAME CONSTRUCTION:	BLADE CONSTRUCTION:	LEAKAGE @ 1" WG PD:	SEALS BLADE:	BEARINGS:	ACTUATOR:	MANUFACTURER OR EQUIVALENT:	MODEL:	REMARKS:
FSD-1	FIRE/SMOKE DAMPER, 1.5-HOUR RATED	VARIES	VARIES	SEE PLANS	PARALLEL	5" x 16-GA GALVANIZED HAT-SHAPED CHANNEL	6" WIDE, 14-GA GALVANIZED STEEL, AIRFOIL SHAPE	4 CFM / S.F. (CLASS 1)	SILICONE	SS	1	RUSKIN	FSD-60	1,3,4,5,6
SD-1	SMOKE DAMPER, 1.5-HOUR RATED	VARIES	VARIES	SEE PLANS	PARALLEL	5" x 16-GA GALVANIZED HAT-SHAPED CHANNEL	6" WIDE, 14-GA GALVANIZED STEEL, AIRFOIL SHAPE	4 CFM / S.F. (CLASS 1)	SILICONE	SS	1	RUSKIN	SD-60	1,3,4,5,6
BD-1	CONTROL DAMPER WITH INTEGRAL AIRFLOW MEASURING STATION	VARIES	VARIES	SEE PLANS	OPPOSED BLADE	5" x 16-GA GALVANIZED HAT-SHAPED CHANNEL	6" WIDE, 14-GA GALVANIZED STEEL, AIRFOIL SHAPE	3 CFM / S.F. (CLASS 1A)	SILICONE	SS	2	RUSKIN	CD60	1

ACTUATOR
1. 120 VAC, TWO POSITION, 350 DEGREE F UL555 RATED, FACTORY SUPPLIED, NORMALLY CLOSED, PROVIDE WITH FACTORY HEAT DETECTION DEVICE SYSTEM THAT ACTIVATES AT 165 DEGREE F-RUSKIN MODEL EFL OR EQUIVALENT AUTOMATIC RESET AFTER TEST, SMOKE DETECTION OR POWER FAILURE, AFTER EXPOSURE TO ELEVATED TEMPERATURE, THE DAMPER SHALL BE RESET MANUALLY. DAMPER TO BE CONNECTED AND MONITORED BY BMS
2. MODULATING, PROVIDED BY TEMPERATURE CONTROL CONTRACTOR

REMARKS
1. MECHANICAL CONTRACTOR TO FIELD VERIFY DUCT SIZE PRIOR TO ORDERING. ACTUAL DUCT SIZE MAY BE DIFFERENT THAN LISTED SIZE DUE TO VARIATION OF FABRICATION AND INTERNAL INSULATION.
2. PROVIDE WITH FACTORY SLEEVE AND REMOTE DAMPER BLADE POSITION SWITCH (SP-100 SWITCH PACKAGE) OR EQUIVALENT. PROVIDE DUCT ACCESS PANEL.
3. PROVIDE A UL 555 & 555S CLASSIFIED 1-1/2 HOUR DAMPER, FACTORY SLEEVE, 165 DEGREE ACTIVATION TEMPERATURE
4. SMOKE DETECTOR PROVIDED BY FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF DETECTOR WITH FIRE ALARM CONTRACTOR. COORDINATE AIRFLOW VELOCITY TO ENSURE PROPER DETECTOR IS PROVIDED.
5. LABEL ALL SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS PER CODE REQUIREMENTS.
6. PROVIDE FACTORY SLEEVE (COORDINATE WITH SPECIFIC WALL CONSTRUCTION). PROVIDE UL-CLASSIFIED AND FM-APPROVED "OUT OF THE WALL OR FLOOR" THROUGH PENETRATION INSULATED SLEEVE AND ACCESS DOOR IF NECESSARY TO SHIFT DAMPER FROM RATED ASSEMBLY FOR ACCESSIBILITY/MAINTENANCE REASONS.

ROOF HOOD AND LOUVER SCHEDULE

MARK:	SERVES:	SIZE:	TOTAL FACE AREA (SQ. FT.):	AIRFLOW (CFM):	VELOCITY (FPM):	APD (IN. WG.):	MINIMUM FREE AREA (SQ. FT.):	CONSTRUCTION MATERIAL:	BLADE SPACING / ANGLE:	SCREEN:	FINISH:	MANUFACTURER OR APPROVED EQUIVALENT:	MODEL:	REMARKS:
L-1	ERU-1 OA	43" x 24"	7.0	160	75	0.02	3.50	6063 EXTRUDED ALUMINUM	2" / VERTICAL	BIRD	PVDF	RUSKIN	EME520V	1,2,3,4
L-2	ERU-1 EA	31" x 24"	5.0	180	75	0.02	2.50	6063 EXTRUDED ALUMINUM	2" / VERTICAL	BIRD	PVDF	RUSKIN	EME520V	1,2

REMARKS:
1. LOUVER TO BE CLEAR ANODIZED FINISH.
2. PROVIDE ALUMINUM BIRDSCREEN, 0.5 MESH TYPE.
3. LOUVER TO BE INSTALLED IN STOREFRONT WINDOW SYSTEM. COORDINATE WITH GENERAL CONTRACTOR EXACT SIZE
4. PROVIDE WITH INSECT SCREEN.

PIPE KIT SCHEDULE

MARK	FUNCTION	SERVES	OPERATING CONDITIONS	SUPPLY COMPONENTS	RETURN COMPONENTS	CAPACITY	MANUFACTURER & MODEL OR EQUIVALENT	REMARKS
PK-1	PIPE KIT	HEAT PUMPS WATER TO WATER HEAT PUMP	HEATING WATER SUPPLY / RETURN 40 - 200 DEG F 300 PSIG HEATING WATER SUPPLY / RETURN 40 - 200 DEG F	BV-PT-YS-PT-UN-HOSE	UN-AV-CV-AFCV2-BV-HOSE	3/4" PIPE CONNECTIONS 0-3 GPM 1" PIPE CONNECTIONS 5-7 GPM 1 1/4" PIPE CONNECTIONS 7-16 GPM AUTOMATIC FLOW CONTROL 2-32 PSI	GRISWOLD MODEL CPP-2IRIS (2- Way Valve)	1,2,3

AV	-AIR VENT
BV	-BALL VALVE WITH LEVER HANDLE, TEFLON SEATS, FORGED OR CAST BRASS BODY, NICKEL PLATED BRASS BALL
YS1	-ASTM B283-06 FORGED BRASS Y-STYLE STRAINER WITH 20 MESH STAINLESS STEEL STRAINER, WITH DRAIN VALVE, HOSE BIBB CONNECTION AND CAP
YS2	-CAST BRASS Y-STYLE STRAINER WITH 20 MESH STAINLESS STEEL STRAINER, WITH DRAIN VALVE, HOSE BIBB CONNECTION AND CAP
PT	-PRESSURE AND TEMPERATURE TEST PORT
UN	-UNION
CS	-CIRCUIT SETTER 600 WOG, FORGE BRASS ASTM B283-06, BRASS VENTURI FLOW ELEMENT, TEFLON BALL SEATS, EPDM O-RING UNION SEAL, NICKEL PLATED BRASS BALL, FULL PORT, TWO COMBINATION PRESSURE AND TEMPERATURE PORTS, DUAL TEFLON/EPDM O-RING STEM SEAL, LEVER HANDLE DUAL TEFLON/EPDM O-RING STEM SEAL, LEVER HANDLE
CV	-TEMPERATURE CONTROL CONTRACTOR TO PROVIDE CONTROL VALVE - EXCLUDE THIS FROM THE PIPE KIT
AFCV1	-ACCESSIBLE AUTOMATIC FLOW CONTROL VALVE WITH 1-14 PSID RANGE, AISI 304 STAINLESS STEEL CARTRIDGE AND SPRING, TWO PRESSURE AND TEMPERATURE TEST PLUG, ASTM B283-06 BRASS BODY, TEFLON BALL SEALS, EPDM O-RING UNION SEALS, NICKEL PLATED BRASS BALL, STAINLESS S
AFCV2	-ACCESSIBLE AUTOMATIC FLOW CONTROL VALVE WITH 2-32 PSID RANGE, STAINLESS STEEL CARTRIDGE AND SPRING, TWO PRESSURE AND TEMPERATURE TEST PLUGS
AFCV4	-AUTOMATIC FLOW CONTROL VALVE WITH 2-32 PSID RANGE, AISI 304 STAINLESS STEEL CARTRIDGE AND AISI 17-7PH STAINLESS TEEL SPRING, TWO PRESSURE AND TEMPERATURE TEST PLUGS, GROOVED CONNECTIONS, SCHEDULE 40 STEEL BODY
HOSE	-INSULATED STAINLESS STEEL BRAIDED HOSES-CONTRACTOR IS TO FIELD VERIFY LENGTH REQUIRED

REMARKS
1. SEE SCHEDULES AND SCHEMATICS FOR GPM AND SIZES.
2. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE CONTROL VALVE AND ACTUATOR, PIPE KIT SUPPLIER SHALL EXCLUDE THIS FROM THE PIPE KIT.
3. PROVIDE FULL LINE SIZE THROUGH PIPE KIT COMPONENTS, NO REDUCED COMPONENTS WILL BE ACCEPTED.

CONDENSING UNIT SCHEDULE

MARK	TYPE	SERVES	ENTERING AIR DB / WB	AMBIENT TEMPERATURE	COOLING PERFORMANCE TOTAL BTUIH	COOLING PERFORMANCE SENSIBLE BTUIH	COOLING PERFORMANCE SEER	ELECTRICAL DATA VOLTS	PH	HZ	MCA / MFS AMPS	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUIVALENT	REMARKS
CU-1	SPLIT SYSTEM	F-1	80 / 67	95	48.3	37.0	15.0	208	1	60	24/40	TRANE MODEL 4TTR4048	1,2,3,4,5,6,7
CU-2	SPLIT SYSTEM	F-2	80 / 67	95	48.3	37.0	15.0	208	1	60	24/40	TRANE MODEL 4TTR4048	1,2,3,4,5,6,7

REMARKS:

1 PROVIDE SINGLE POINT ELECTRICAL CONNECTION
2 PROVIDE R-410A REFRIGERANT CHARGE
3 PROVIDE ALL REQUIRED INSULATED REFRIGERANT LINES
4 PROVIDE ALL STANDARD FIVE (5) YEAR COMPRESSOR WARRANTY
5 PROVIDE THERMAL EXPANSION VALVE AND FILTER DRYER
6 PROVIDE LOW AMBIENT COOLING FOR ALL UNITS: 30 DEGREE F
7 PROVIDE CONDENSER COIL GUARD.

FURNACE AND DX COIL SCHEDULE

EQUIPMENT MARK:	SERVES:	UNIT TYPE:	HEATING (MBH) 1ST INPUT	1ST OUTPUT	2nd INPUT	2nd OUTPUT	AFUE	SUPPLY AIR CFM	FAN E.S.P. IN.W.G.	HP	VOLTS/PH/HZ	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUIVALENT FURNACE / COIL
F-1	LOCKER ROOM	UP-FLOW SINGLE STAGE GAS FIRED FURNACE	65	63	100	97	95	1600	0.5	1.0	120 / 1 / 60	TRANE S9X2C100USPSBA 4TXCC009DS3
F-2	LOCKER ROOM	UP-FLOW SINGLE STAGE GAS FIRED FURNACE	65	63	100	97	95	1600	0.5	1.0	120 / 1 / 60	TRANE S9X2C100USPSBA 4TXCC009DS3

SCHEDULE NOTES:

1) FUEL FOR ALL FURNACES SHALL BE NATURAL GAS
2) COOLING COIL SHALL BE SELECTED MATCHED WITH ASSOCIATED CONDENSING UNIT.
3) SEE PLANS FOR NATURAL GAS CONNECTIONS.
4) PROVIDE CONCENTRIC VENTS THRU ROOF
5) FURNACES TO BE EQUIPPED WITH E-Z FILTER RACK WITH DOOR, OR EQUIVALENT
6) FURNACES SHALL INCLUDE CASED DX COIL WITH THERMAL EXPANSION VALVE.

KITCHEN HOOD SCHEDULE

MARK	LOCATION	TYPE	SIZE INCHES	VENTILATION	V/PH/HZ	AIR FLOW RANGE CFM	UL LISTING	MANUFACTURER OR APPROVED EQUIVALENT	MODEL	REMARKS
KH-1	505 - KITCHEN	ABOVE STOVE	30	INTERNAL FAN - TOP EXHAUST	120 / 1 / 60	174 - 519	-	DENLAR	D1030-D-RF-NFPA	1,2,3,4,5

REMARKS:
1. PROVIDE WITH ROOF MOUNTED FAN, CURB ADAPTOR, PLENUM RATED CABLE, SS BAFFLE GREASE FILTERS, LIGHT BULB, SPEED DIAL, SS. DRIP CUP, PRESSURE GAUGE RESET SWITCH AND POWER SWITCH, LED STATUS LIGHT, AND MOUNTING BRACKET.
2. PROVIDE WITH LIFE SAFETY CODE, CLOCKBOX - KEY LOCK PROTECTED RANGE ELEMENT TIME OUT SYSTEM MANUAL PULL STATION KIT, ANSUL FIRE SUPPRESSION.
4. NOTIFY FIRE ALARM CONTROL PANEL UPON ACTIVATION OF THE ANSUL FIRE SUPPRESSION SYSTEM. COORDINATE NECESSARY TRADES WIRING OF THE ALARM.
5. CONTRACTOR TO PROVIDE 12" ROOF CURB FOR MOUNTING OF ROOF FAN

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

TAG	M-NET ADDRESS	MANUFACTURER OR APPROVED EQUIVALENT	MODEL NUMBER	Type (double / Main / Sub)	NUMBER OF PORTS	CONNECTED CAPACITY	VOLTAGE/PHASE	REMARKS
BC-1	52	TRANE	TCMBG0108SJ11N4	SINGLE	8	91,000	208/1	1, 2

REMARKS:
1. Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
2. For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK:	TYPE:	MAX. P.D. (IN. WG.):	MAX. N.C.:	MAXIMUM CFM:	MANUFACTURER AND MODEL NUMBER:	REMARKS:
D-1	SQUARE PLAQUE CEILING DIFFUSER ARCH. TYPE	0.15	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS OMNI OR EQUIVALENT	24" x 24" FACE SIZE, STEEL CONSTRUCTION, WHITE FINISH PROVIDE APPROPRIATE BORDER AND INSTALLATION MATERIALS FOR CEILING TYPE
D-2	SQUARE PLAQUE CEILING DIFFUSER ARCH. TYPE	0.15	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS OMNI OR EQUIVALENT	12" x 12" FACE SIZE, STEEL CONSTRUCTION, WHITE FINISH PROVIDE APPROPRIATE BORDER AND INSTALLATION MATERIALS FOR CEILING TYPE
D-3	SQUARE PLAQUE CEILING DIFFUSER ARCH. TYPE	0.15	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS OMNI-AA OR EQUIVALENT	24" x 24" FACE SIZE, ALUMINUM CONSTRUCTION, WHITE FINISH PROVIDE APPROPRIATE BORDER AND INSTALLATION MATERIALS FOR CEILING TYPE
D-4	SQUARE PLAQUE CEILING DIFFUSER ARCH. TYPE	0.15	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS OMNI-AA OR EQUIVALENT	12" x 12" FACE SIZE, ALUMINUM CONSTRUCTION, WHITE FINISH PROVIDE APPROPRIATE BORDER AND INSTALLATION MATERIALS FOR CEILING TYPE
DL-1	LONG THROW HIGH CAPACITY DRUM LOUVER	0.15	20	SEE PLANS FOR CFM AND SIZE	TITUS US-DL-SV OR EQUIVALENT	STEEL CONSTRUCTION, ADJUSTABLE VANES WITHIN ROTATABLE DRUM PROVIDE SPIRAL DUCT FRAME, PROVIDE MODEL AG-15 HD OR EQUIVALENT HEAVY DUTY STEEL OPPOSED BLADE DAMPER PRIOR TO ORDERING CONFIRM MANUFACTURER RECOMMENDED INSTALLATION
G-1	PERFORATED GRILLE	-0.10	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS PAR OR EQUIVALENT	24" x 24" FACE SIZE, STEEL CONSTRUCTION, ROUND OR RECTANGULAR DUCT CONNECTION (SEE PLANS), PERFORATED REMOVABLE FACE, WHITE FINISH UNLESS OTHERWISE NOTED ON PLAN. PROVIDE APPROPRIATE BORDER FOR CONSTRUCTION.
G-2	PERFORATED GRILLE	-0.10	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS PAR OR EQUIVALENT	12" x 12" FACE SIZE, STEEL CONSTRUCTION, ROUND OR RECTANGULAR DUCT CONNECTION (SEE PLANS), PERFORATED REMOVABLE FACE, WHITE FINISH UNLESS OTHERWISE NOTED ON PLAN. PROVIDE APPROPRIATE BORDER FOR CONSTRUCTION.
G-3	PERFORATED GRILLE	-0.10	20	SEE PLANS FOR CFM AND NECK SIZE	TITUS PAR OR EQUIVALENT	24" x 24" FACE SIZE, ALUMINUM CONSTRUCTION, ROUND OR RECTANGULAR DUCT CONNECTION (SEE PLANS), PERFORATED REMOVABLE FACE, WHITE FINISH UNLESS OTHERWISE NOTED ON PLAN. PROVIDE APPROPRIATE BORDER FOR CONSTRUCTION.
R-1	REGISTER	0.10	20	SEE PLANS FOR CFM AND SIZE	TITUS 300RL OR EQUIVALENT	3/4" BLADE SPACING, DOUBLE DEFLECTION, ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO LONG DIMENSION STEEL FRAME AND BLADES, CONCEALED SCREW MOUNTING, COLOR TO MATCH CEILING/WALL, PROVIDE APPROPRIATE BORDER FOR CEILING/WALL TYPE, REGISTER TO BE PAINTABLE TO MATCH ADJACENT WALL COLOR
R-2	REGISTER	-0.10	20	SEE PLANS FOR CFM AND SIZE	TITUS 350RL OR EQUIVALENT	3/4" BLADE SPACING, FIXED SINGLE DEFLECTION AT 35 DEGREE ANGLE, BLADES PARALLEL TO LONG DIMENSION, STEEL FRAME AND BLADES, CONCEALED SCREW MOUNTING, COLOR TO MATCH CEILING/WALL, PROVIDE APPROPRIATE BORDER FOR WALL TYPE, REGISTER TO BE PAINTABLE TO MATCH ADJACENT WALL COLOR
R-3	REGISTER	0.1	25	SEE PLANS FOR CFM AND SIZE	TITUS S300FL OR EQUIVALENT	3/4" BLADE SPACING, DOUBLE DEFLECTION, ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO LONG DIMENSION, RADIUS ENDCAPS MATCH DUCT TO AVOID INSTALLATION COSTS, CURVED BORDER, FOAM GASKET TIGHT SEAL PROVIDE AIR SCOOP DAMPER. PROVIDE PAINTABLE FINISH AND PAINT TO MATCH DUCT COLOR.
R-4	HEAVY DUTY RETURN REGISTER	-0.10	20	SEE PLANS FOR CFM AND SIZE	TITUS 30RL OR EQUIVALENT	3/8" BLADE SPACING, FIXED SIGNLE DEFLECTION AT 0 DEGREE ANGLE STEEL FRAME AND BLADES, CONCEALED SCREW MOUNTING, WHITE FINISH, COORDINATE WITH CEILING / WALL TYPE PRIOR TO ORDERIONG CONFIRM MANUFACTURER RECOMMENED INSTALLATION.
R-5	REGISTER	0.10	20	SEE PLANS FOR CFM AND SIZE	TITUS 300RL OR EQUIVALENT	3/4" BLADE SPACING, DOUBLE DEFLECTION, ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO LONG DIMENSION ALUMINUM FRAME AND BLADES, CONCEALED SCREW MOUNTING, COLOR TO MATCH CEILING/WALL, PROVIDE APPROPRIATE BORDER FOR CEILING/WALL TYPE, REGISTER TO BE PAINTABLE TO MATCH ADJACENT WALL COLOR
R-6	REGISTER	-0.10	20	SEE PLANS FOR CFM AND SIZE	TITUS 350RL OR EQUIVALENT	3/4" BLADE SPACING, FIXED SINGLE DEFLECTION AT 35 DEGREE ANGLE, BLADES PARRALEL TO LONG DIMENSION, ALUMINUM FRAME AND BLADES, CONCEALED SCREW MOUNTING, COLOR TO MATCH CEILING/WALL, PROVIDE APPROPRIATE BORDER FOR WALL TYPE, REGISTER TO BE PAINTABLE TO MATCH ADJACENT WALL COLOR

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS
A - 003 12/14/2022 Addendum #003

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

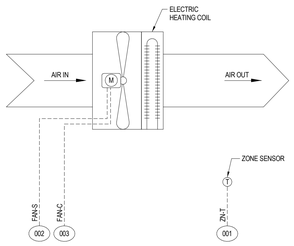
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November 18, 2022

Mechanical Schedules

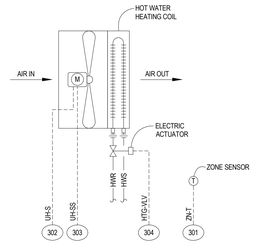
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Plot Time Stamp: 5/8/2023 11:54:47 AM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt



1 ELECTRIC UNIT HEATER (EH-#) CONTROLS SCHEMATIC

NO SCALE



2 CABINET UNIT HEATER / UNIT HEATER CONTROLS SCHEMATIC

NO SCALE

ELECTRIC HEATER CONTROLS POINTS LIST

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE	GRAPHIC
001	AI	ZN-T	ZONE AIR TEMP	ZONE SENSOR	X
002	DI	FAN-S	ELECTRIC HEATER STATUS	CURRENT SWITCH / CONTROL RELAY	X
003	DO	FAN-C	EH START / STOP	CONTROL RELAY	X

ELECTRIC HEATER SEQUENCE OF OPERATIONS

1. GENERAL

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BMS.

2. ZONE TEMPERATURE

2.1 THERMOSTAT: THE ZONE TEMPERATURE SHALL BE MEASURED BY THE ZONE THERMOSTAT.

2.2 HEATING MODE: ON A CALL FOR HEATING, THE COIL SHALL BE ENABLED. ON A STOP COMMAND, THE COIL SHALL BE OFF.

3. FAN CONTROL

3.1 START/STOP: ON A CALL FOR HEATING, THE FAN SHALL START. WHEN THE SPACE TEMPERATURE SETPOINT IS REACHED, THE FAN SHALL STOP.

4. SAFETIES

4.1 UNSATISFIED ZONE TEMP: IF THE ZONE TEMPERATURE SETPOINT IS NOT MET FOR AN ADJUSTABLE TIME PERIOD (INITIALLY 30 MIN), THEN THE BMS SHALL ALARM.

4.2 FAN FAILURE: IF THE FAN IS GIVEN A START COMMAND AND THE CURRENT SWITCH INDICATES THE FAN IS NOT RUNNING, THEN THE BMS SHALL ALARM.

CABINET UNIT HEATER POINTS LIST

PANEL LOCATION: PENTHOUSE

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
301	AI	ZN-T	ZONE AIR TEMP	ZONE SENSOR
302	BI	UH-S	UNIT HEATER STATUS	CURRENT SWITCH/CONTROL RELAY
303	BO	UH-SS	UNIT HEATER START/STOP	CONTROL RELAY
304	BO	HTG-VLV	HEATING VALVE	ELECTRONIC ACTUATOR

CABINET UNIT HEATER / UNIT HEATER SEQUENCE OF OPERATIONS

3. CABINET UNIT HEATERS / UNIT HEATERS

3.1 CONTROL SHALL BE THROUGH THE BAS.

3.2 FAN CONTROL

3.2.1 START/STOP: ON A CALL FOR HEATING, THE FAN SHALL START. WHEN THE SPACE TEMPERATURE SETPOINT IS REACHED, THE FAN SHALL STOP.

3.3 ZONE TEMPERATURE

3.3.1 THERMOSTAT: THE ZONE TEMPERATURE SHALL BE MEASURED BY THE ZONE THERMOSTAT.

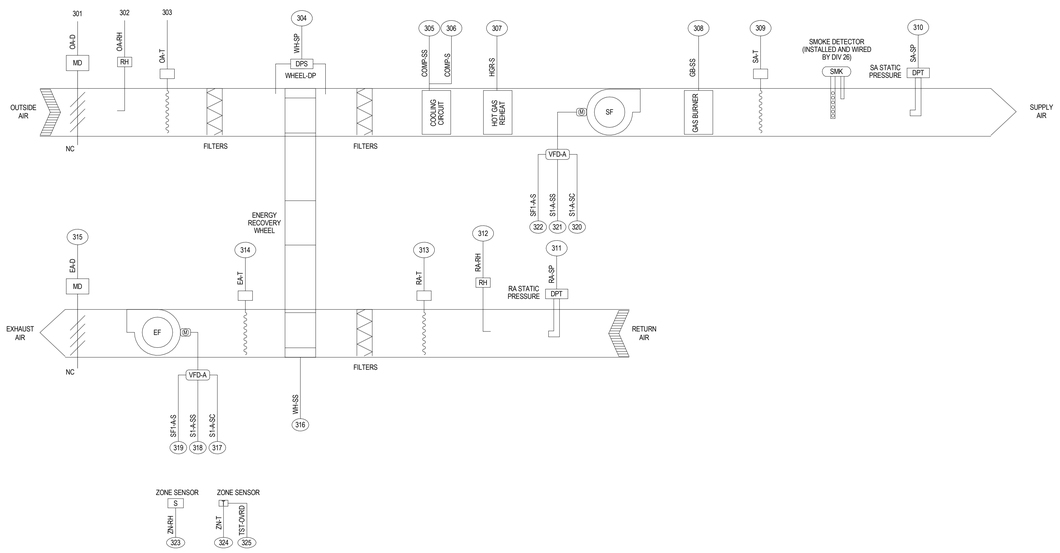
3.4 HEATING MODE

3.4.1 ON A START COMMAND, THE COIL VALVE SHALL OPEN. ON A STOP COMMAND, THE COIL VALVE SHALL CLOSE.

3.5 SAFETIES

3.5.1 UNSATISFIED TEMP SETPOINT: IF THE SPACE TEMPERATURE SETPOINT IS NOT MET FOR AN ADJUSTABLE TIME PERIOD (INITIALLY 30 MINUTES), THE BAS SHALL ALARM.

3.5.2 FAN FAILURE: IF THE FAN IS GIVEN A START COMMAND AND THE CURRENT SWITCH (CS) INDICATES THE FAN IS NOT RUNNING, THE BAS SHALL ALARM.



3 ERU-1 CONTROLS SCHEMATIC

NO SCALE

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
301	AO	OA-D	OUTDOOR AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
302	AI	OA-H	OUTDOOR AIR RH%	DUCT HUMIDITY SENSOR
303	AI	OA-T	OUTDOOR AIR TEMP	RTD/DUCT AVERAGING
304	AI	WH-SP	WHEEL STATIC PRESS	DIFF. PRESS TRANSMITTER
305	DO	COMP-SS	COMPRESSOR START/STOP	CONTROL RELAY
306	DI	COMP-S	COMPRESSOR STATUS	CURRENT SWITCH
307	DI	HGRH-S	HOT GAS REHEAT STATUS	CURRENT SWITCH
308	DO	GB-SS	GAS BURNER START/STOP	CONTROL RELAY
309	AI	SA-T	SUPPLY AIR TEMP	RTD/DUCT AVERAGING
310	AI	SA-SP	SUPPLY AIR STATIC PRESS	DIFF. PRESS TRANSMITTER
311	AI	RA-SP	RETURN AIR STATIC PRESS	DIFF. PRESS TRANSMITTER
312	AI	RA-H	RETURN AIR RH%	DUCT HUMIDITY SENSOR
313	AI	RA-T	RETURN AIR TEMP	RTD/DUCT AVERAGING
314	AI	EA-T	EXHAUST AIR TEMP	RTD/DUCT AVERAGING
315	AO	EA-D	EXHAUST AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
316	DO	WH-SS	WHEEL START/STOP	CONTROL RELAY
317	AO	EF1-A-SC	EXHAUST FAN A SPD CONTROL	VFD
318	DO	EF1-A-SS	EXHAUST FAN A START/STOP	CONTROL RELAY
319	DI	EF1-A-S	EXHAUST FAN A STATUS	CURRENT SWITCH
320	AO	SF1-A-SC	SUPPLY FAN A SPD CONTROL	VFD
321	DO	SF1-A-SS	SUPPLY FAN A START/STOP	CONTROL RELAY
322	DI	SF1-A-S	SUPPLY FAN A STATUS	CURRENT SWITCH
323	AI	ZN-RH	ZONE AIR RELATIVE HUMIDITY	WALL-MOUNTED HUMIDITY SENSOR
324	AI	ZN-T	ZONE AIR TEMP	WALL-MOUNTED THERMOSTAT
325	DI	TST-OVRD	OCCUPANCY OVERRIDE	OVERRIDE BUTTON ON SENSOR

ENERGY RECOVERY UNIT SEQUENCE OF OPERATIONS

1. GENERAL

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BAS.

2. UNIT TO OPERATE WHEN BUILDING IS OCCUPIED

2.1 OCCUPIED/UNOCCUPIED MODE IS SCHEDULED THROUGH BMS

3. TEMP CONTROL

3.1 DX COIL/GAS BURNER TO CYCLE TO MAINTAIN SPACE TEMPERATURE SETPOINT AS SENSED BY ROOM TEMPERATURE SENSOR

3.1 IF SPACE TEMPERATURE IS SATISFIED DX COIL/GAS BURNER TO CYCLE TO MAINTAIN SUPPLY AIR TEMPERATURE OF 68° F (ADJ.) DISCHARGE AIR TEMP. AS SENSED BY TEMPERATURE SENSOR LOCATED IN DUCTWORK DOWNSTREAM OF ERU.

4. HUMIDITY CONTROL

4.1 HOT GAS REHEAT COIL TO CYCLE ON/OFF TO MAINTAIN SPACE RH OF 50% (ADJ.) AS SENSED BY RELATIVE HUMIDITY SENSOR LOCATED IN EXHAUST AIR DUCTWORK UPSTREAM OF ERU.

4. WHEEL OPERATION

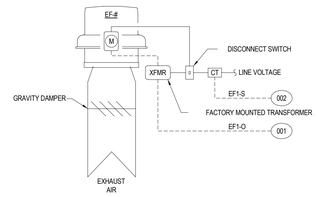
4.1 START/STOP: WHEEL TO OPERATE WHEN UNIT IS IN OCCUPIED MODE

5. SAFETIES

5.1 UNSATISFIED SA TEMP: IF THE SA TEMPERATURE SETPOINT IS NOT MET FOR AN ADJUSTABLE TIME PERIOD (INITIALLY 30 MIN), THEN THE BMS SHALL ALARM.

5.2 FAN FAILURE: IF THE FAN IS GIVEN A START COMMAND AND THE CURRENT SWITCH INDICATES THE FAN IS NOT RUNNING, THEN THE BMS SHALL ALARM.

5.3 WHEEL FAILURE: IF THE WHEEL IS GIVEN A START COMMAND AND THE CURRENT SWITCH INDICATES THE WHEEL IS NOT RUNNING, THEN THE BMS SHALL ALARM.



4 EXHAUST FAN CONTROLS SCHEMATIC:

NO SCALE

EF-# SYSTEM DDC POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
001	AO	EF-O	EXH.FAN OUTPUT(SPEED CONTROL)	CONTROL RELAY/EC MOTOR XFMR
002	BI	EF-S	EXHAUST FAN STATUS	CURRENT SWITCH

EXHAUST FAN SEQUENCE OF OPERATIONS

2. EXHAUST FAN

2.1 CONTROL SHALL BE THROUGH THE BAS.

2.2 START/STOP: THE FAN SHALL BE STARTED AND STOPPED THROUGH THE BMS ON A COMMAND FOR A FAN START, THE BMS SHALL SEND THE FAN TRANSFORMER A 0-10V SIGNAL

2.3 SPEED CONTROL:

2.3.1 THE 0-10V SIGNAL SHALL BE SET DURING BALANCING TO ACHIEVE THE SCHEDULED CFM

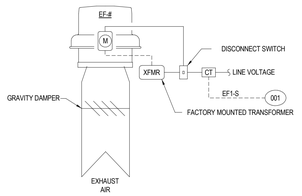
2.4 FAN SCHEDULE:

2.4.1 THE FAN SHALL RUN BASED ON A USER DEFINED TIME SCHEDULE

2.4.2 THE FAN SHALL RUN CONTINUOUSLY 24 HOURS A DAY, 365 DAYS A YEAR

2.5 ALARMS/SAFETIES:

2.5.1 EXHAUST FAN FAILURE: IF THE EXHAUST FAN IS GIVEN A START COMMAND, AND THE FAN CURRENT SWITCH (CS) INDICATES THE FAN IS NOT RUNNING, THE BAS SHALL ALARM.



5 EXHAUST FAN CONTROLS SCHEMATIC:

NO SCALE

EF-304 SYSTEM DDC POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
001	BI	EF-S	EXHAUST FAN STATUS	CURRENT SWITCH

EXHAUST FAN SEQUENCE OF OPERATIONS

1. EXHAUST FAN

1.1 CONTROL SHALL BE THROUGH LOCAL WALL SWITCH OR OCCUPANCY SENSOR

1.1.2 BMS TO MONITOR STATUS OF FAN

2.1 ALARMS/SAFETIES:

2.1.1 EXHAUST FAN FAILURE: IF THE EXHAUST FAN IS GIVEN A START COMMAND, AND THE FAN CURRENT SWITCH (CS) INDICATES THE FAN IS NOT RUNNING, THE BAS SHALL ALARM.

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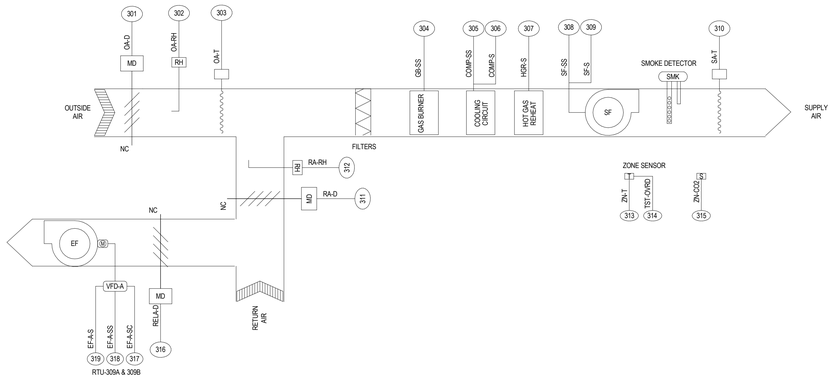
1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

Mechanical Controls

M5.01

Plot Time Stamp: 5/8/2023 11:54:47 AM
File location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt



1 CONSTANT SPEED ROOFTOP UNIT CONTROLS SCHEMATIC

NO SCALE

RTU SYSTEM DDC POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
301	AO	OA-D	OUTDOOR AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
302	AI	OA-H	OUTDOOR AIR RH%	DUCT HUMIDITY SENSOR
303	AI	OA-T	OUTDOOR AIR TEMP	RTD/DUCT AVERAGING
304	DO	GB-SS	GAS BURNER START/STOP	CONTROL RELAY
305	DO	COMP-SS	COMPRESSOR START/STOP	CONTROL RELAY
306	DI	COMP-S	COMPRESSOR STATUS	CURRENT SWITCH
307	DI	HGR-S	HOT GAS REHEAT STATUS	CURRENT SWITCH
308	DO	SF1-A-SS	SFAN A START/STOP	CONTROL RELAY
309	DI	RF1-A-S	RFAN A STATUS	CURRENT SWITCH
310	AI	SA-T	SUPPLY AIR TEMP	RTD/DUCT AVERAGING
311	AO	RA-D	RETURN AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
312	AI	RA-H	OUTDOOR AIR RH%	DUCT HUMIDITY SENSOR
313	AI	ZN-T	ZONE AIR TEMP	WALL-MOUNTED THERMOSTAT
314	DI	TST-OVRD	OCCUPANCY OVERRIDE	OVERRIDE BUTTON ON SENSOR
315	AI	ZN-CO2	ZONE CO2	WALL MOUNTED CO2 SENSOR
316	AO	RELA-D	RELIEF AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
317	AO	EF1-A-SC	EXHAUST FAN A SPD CONTROL	VFD
318	DO	EF1-A-SS	EXHAUST FAN A START/STOP	CONTROL RELAY
319	DI	EF1-A-S	EXHAUST FAN A STATUS	CURRENT SWITCH

GENERAL NOTES:

1. SEE SPECIFICATIONS FOR DEVICE SPECIFICATIONS.
2. ANY DEVICE REQUIRING POWER MUST BE POWERED BY CONTRACTOR.
3. COORDINATE MINIMUM STRAIGHT RUN DISTANCES FOR AIRFLOW STATIONS WITH DUCTWORK.

ROOFTOP UNIT SEQUENCE OF OPERATIONS

1. GENERAL

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BUILDING MANAGMENT SYSTEM

2. TEMPERATURE SENSORS TO BE PROVIDED AS SHOWN ON PLANS

2.1 ZONES WITH 2 TEMPERATURE SENSORS SHOWN ARE TO AVERAGE SENSORS TO CONTROL RTU

2.1.2 FOR RTU-3. TEMPERATURE SENSOR LOCATED IN RECEPTION 127 TO CONTROL ROOFTOP UNLESS OCCUPANCY OVERRIDE BUTTON ON TEMPERATURE SENSOR IN CONFERENCE 127A HAS BEEN PUSHED. WHEN CONF. 127A IS OVERRIDE IS ACTIVE, SENSOR SHALL CONTROL RTU-3

3 OCCUPIED/UNOCCUPIED MODE IS SCHEDULED THROUGH BMS

3.1 MORNING WARM-UP/PRE-COOL, AND HEAT/COOL MODES SHALL BE DETERMINED BY SYSTEM CONTROLLER

3.1.1 IF COMMUNICATION IS LOST, THE EQUIPMENT CONTROLLERS SHALL OPERATE USING DEFAULT MODES AND SETPOINTS

3.2 DURING OCCUPIED MODE THE FAN SHALL RUN CONTINUOUSLY, THE OA DAMPER SHALL OPEN TO SCHEDULED POSITION

3.2.1 ZONES PROVIDED WITH CO2 SENSORS, THE OA DAMPER SHALL OPEN TO MINIMUM POSITION AND MODULATE BASED ON ZONE SENSOR

3.3 DURING UNOCCUPIED MODE, THE FAN SHALL BE OFF, THE OA DAMPER SHALL SHUT

4. TEMP CONTROL

4.1 RTU SHALL CYCLE COMPRESSORS, HEAT AND/OR ENABLE AIRSIDE ECONOMIZER TO MAINTAIN ZONE TEMPERATURE SETPOINT AT SENSOR. IF TWO ZONE TEMPERATURES SENSORS ARE SHOWN, SENSOR SETPOINTS SHALL BE AVERAGED TO DETERMINE SETPOINT

5 PRESSURE CONTROL

5.1 WHEN IN ECONOMIZER MODE, RELIEF AIR DAMPER SHALL OPEN TO MAINTAIN SPACE PRESSURE

5.1.1 RTU-309A & 309B: POWERED EXHAUST FAN SHALL MODULATE TO MAINTAIN SPACE PRESSURE

6 HUMIDITY CONTROL

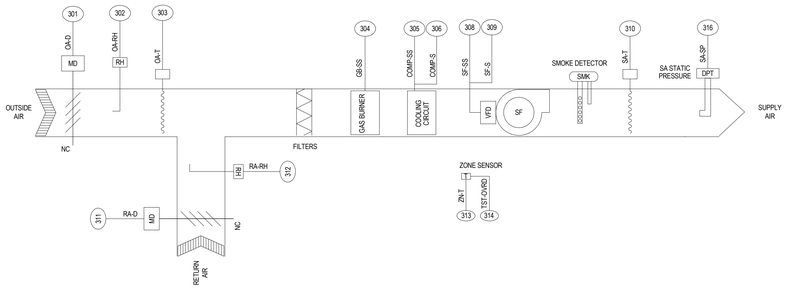
6.1 HOT GAS REHEAT COIL TO CYCLE ON/OFF TO MAINTAIN SPACE RH OF 50% (ADJ.) AS SENSED BY RELATIVE HUMIDITY SENSOR.

7. SAFETIES

7.1 UNSATISFIED SA TEMP: IF THE SA TEMPERATURE SETPOINT IS NOT MET FOR AN ADJUSTABLE TIME PERIOD (INITIALLY 15 MIN), THEN THE BMS SHALL ALARM.

7.2 FAN FAILURE: IF THE FAN IS GIVEN A START COMMAND AND THE CURRENT SWITCH INDICATES THE FAN IS NOT RUNNING, THEN THE BMS SHALL ALARM.

7.3 SMOKE DETECTION: IN THE EVENT OF POSITIVE SMOKE DETECTION THE UNIT SHALL BE DISABLED AND THE BAS SHALL GENERATE AN ALARM.



2 VARIABLE AIR VOLUME ROOFTOP CONTROLS SCHEMATIC

NO SCALE

EXISTING RTU SYSTEM DDC POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
301	AO	OA-D	OUTDOOR AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
302	AI	OA-H	OUTDOOR AIR RH%	DUCT HUMIDITY SENSOR
303	AI	OA-T	OUTDOOR AIR TEMP	RTD/DUCT AVERAGING
304	DO	GB-SS	GAS BURNER START/STOP	CONTROL RELAY
305	DO	COMP-SS	COMPRESSOR START/STOP	CONTROL RELAY
306	DI	COMP-S	COMPRESSOR STATUS	CURRENT SWITCH
307	DI	HGRH-S	HOT GAS REHEAT STATUS	CURRENT SWITCH
308	DO	SF1-A-SS	SFAN A START/STOP	CONTROL RELAY
309	DI	RF1-A-S	RFAN A STATUS	CURRENT SWITCH
310	AI	SA-T	SUPPLY AIR TEMP	RTD/DUCT AVERAGING
311	AO	RELA-D	RELIEF AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
312	AI	RA-H	OUTDOOR AIR RH%	DUCT HUMIDITY SENSOR
313	AI	ZN-T	ZONE AIR TEMP	WALL-MOUNTED THERMOSTAT
314	DI	TST-OVRD	OCCUPANCY OVERRIDE	OVERRIDE BUTTON ON SENSOR
315	AO	BP-D	SA BYPASS AIR DAMPER	ELECT ACT W/SPRING RTN/END SWITCH
316	AI	SA-SP	SUPPLY AIR STATIC PRESS	DIFF. PRESS TRANSMITTER

GENERAL NOTES:

1. SEE SPECIFICATIONS FOR DEVICE SPECIFICATIONS.
2. ANY DEVICE REQUIRING POWER MUST BE POWERED BY CONTRACTOR.
3. COORDINATE MINIMUM STRAIGHT RUN DISTANCES FOR AIRFLOW STATIONS WITH DUCTWORK.

ROOFTOP UNIT SEQUENCE OF OPERATIONS

1. GENERAL

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BUILDING MANAGMENT SYSTEM

2. TEMPERATURE SENSORS TO BE PROVIDED AS SHOWN ON PLANS

3 OCCUPIED/UNOCCUPIED MODE IS SCHEDULED THROUGH BMS

3.1 MORNING WARM-UP/PRE-COOL, AND HEAT/COOL MODES SHALL BE DETERMINED BY SYSTEM CONTROLLER

3.1.1 IF COMMUNICATION IS LOST, THE EQUIPMENT CONTROLLERS SHALL OPERATE USING DEFAULT MODES AND SETPOINTS

3.2 DURING OCCUPIED MODE THE FAN SHALL RUN CONTINUOUSLY, THE OA DAMPER SHALL OPEN TO SCHEDULED POSITION

3.2.1 ZONES PROVIDED WITH CO2 SENSORS, THE OA DAMPER SHALL OPEN TO MINIMUM POSITION AND MODULATE BASED ON ZONE SENSOR

3.3 DURING UNOCCUPIED MODE, THE FAN SHALL BE OFF, THE OA DAMPER SHALL SHUT

4. TEMP CONTROL

4.1 RTU SHALL CYCLE COMPRESSORS, HEAT AND/OR ENABLE AIRSIDE ECONOMIZER TO MAINTAIN SUPPLY AIR SETPOINT AT DUCT SENSOR 56 DEG (ADJ.).

4.2 RTU HEATING SHALL BE LOCKED OUT AT 65F AMBIENT AND ABOVE (ADJ.).

5. FAN CONTROL

5.1 SUPPLY FAN VFD SHALL MODULATE TO MAINTAIN STATIC PRESSURE SETPOINT

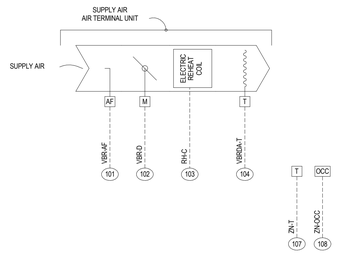
6. SAFETIES

6.1 UNSATISFIED SA TEMP: IF THE SA TEMPERATURE SETPOINT IS NOT MET FOR AN ADJUSTABLE TIME PERIOD (INITIALLY 15 MIN), THEN THE BMS SHALL ALARM.

6.2 FAN FAILURE: IF THE FAN IS GIVEN A START COMMAND AND THE CURRENT SWITCH INDICATES THE FAN IS NOT RUNNING, THEN THE BMS SHALL ALARM.

6.3 HIGH STATIC PRESSURE: IF DUCT STATIC PRESSURE IS .2" (ADJ.) HIGHER THAN SETPOINT AS SENSED FOR 15 MIN. (ADJ.) THAN THE BMS SHALL ALARM.

6.4 SMOKE DETECTION: IN THE EVENT OF POSITIVE SMOKE DETECTION THE UNIT SHALL BE DISABLED AND THE BAS SHALL GENERATE AN ALARM.



3 AIR TERMINAL UNIT CONTROLS SCHEMATIC

NO SCALE

AIR TERMINAL UNITS POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE
101	AI	VBR-AF	SUPPLY AIR TEMINAL UNIT AIRFLOW	AIR TERMINAL UNIT CONTROLLER
102	AO	VBR-D	SUPPLY AIR TERMINAL UNIT DAMPER	AIR TERMINAL UNIT CONTROLLER
103	AO	RH-C	ELECTRIC REHEAT COIL	SCR 0-10 AMP SIGNAL
104	AI	VBRDA-T	SA TERMINAL UNIT DA TEMP	RTD/DUCT AVG TEMP SENSOR OR IMMERSION ELEMENT
105	AI	VB-AF	RA/EA TERMINAL UNIT AIRFLOW	AIR TERMINAL UNIT CONTROLLER
106	AO	VB-D	RA/EATERMINAL UNIT DAMPER	AIR TERMINALUNIT CONTROLLER
107	AI	ZN-T	ZONE AIR TEMP	WALL-MOUNTED THERMOSTAT
108	BI	ZN-OCC	ZONE OCCUPANCY	OCC SENSOR(BYDIV26)
109	AI	ZN-CO2	ZONE CO2	CO2 SENSOR
110	AI	ZN-T-SETPT	ZONE TEMP SETPT	THERMOSTAT

AIR TERMINAL UNITS SEQUENCE OF OPERATIONS

1. AIR TERMINAL UNITS

1.1 CONTROL SHALL BE THROUGH THE BAS.

1.2 ZONE TEMPERATURE

1.2.1.1 A ZONE TEMPERATURE SENSOR SHALL BE INSTALLED FOR EACH TERMINAL UNIT AS SHOWN ON PLANS.

1.2.2 OCCUPIED SPACE TEMPERATURE SETPOINT: INITIALLY TO BE COORDINATED WITH SCHOOL. 73 COOLING, 69 HEATING.

1.2.2.1 ALL SETPOINTS SHALL BE ADJUSTABLE.

1.2.3 ZONE TEMPERATURE SETBACK

1.2.3.1 BASED ON FINE SCHEDULE. THE BAS SHALL ADJUST THE SPACE TEMPERATURE SETPOINT TO A PREDETERMINED ZONE TEMP SETBACK SETPOINT (ADJUSTABLE)

1.2.3.2 IF ANY OF THE OVERRIDE BUTTONS ARE PRESSED IN A ZONE TO INDICATE THAT THE ZONE IS OCCUPIED, THE BAS SHALL CHANGE THE SPACE TEMP SETPOINT TO THE OCCUPIED SPACE TEMP SETPOINT.

1.2.3.3 UNOCCUPIED OVERRIDE OPERATION: A MANUAL OVERRIDE SHALL BE PROVIDED THROUGH THE BAS TO SUSPEND THE ZONE TEMPERATURE SETBACK FOR A TIME PERIOD OF 30 MINUTES TO 120 MINUTES (IN 30-MINUTE INCREMENTS).

1.2.4 MANUAL ADJUSTMENT: IF MANUAL SETPOINT CAPABILITY IS PROVIDED ON THE ZONE THERMOSTAT, THE ZONE TEMPERATURE SETPOINT SHALL BE ALLOWED TO VARY BY +/- 3 DEG F (ADJUSTABLE) FROM THE NORMAL ZONE TEMPERATURE SETPOINTS.

1.3 AIRFLOW RATE

1.3.1 THE AIRFLOW RATE SHALL BE MEASURED BY THE AIRFLOW SENSOR LOCATED IN THE NECK OF THE AIR TERMINAL UNIT.

1.4 DAMPER CONTROL

1.4.1 THE VOLUME DAMPER SHALL MODULATE TO MAINTAIN THE AIRFLOW SETPOINT REQUIRED BY THE APPLICABLE MODE OF OPERATION.

1.4.1.1 ON A CALL FOR HEATING, THE VOLUME DAMPER SHALL MODULATE TO MAINTAIN ITS MINIMUM AIRFLOW SETPOINT PRIOR TO OPENING THE REHEAT COIL VALVE.

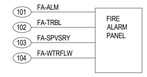
1.5 REHEAT COIL VALVE (WHERE APPLICABLE)

1.5.1 ON A CALL FOR COOLING, THE ELECTRIC REHEAT COIL VALVE SHALL BE OFF.

1.5.2 ON A CALL FOR HEATING, THE ELECTRIC REHEAT COIL SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. BUT THE DISCHARGE AIR TEMPERATURE SHALL BE CONTROLLED TO NOT EXCEED 105F.

1.6 DISCHARGE AIR TEMPERATURE

1.6.1 A DISCHARGE AIR TEMPERATURE SENSOR LOCATED IN THE DUCTWORK DOWNSTREAM OF THE REHEAT COIL SHALL MEASURE THE DISCHARGE AIR TEMPERATURE. SENSOR SHALL BE INSTALLED SUFFICIENTLY DOWNSTREAM OF COIL TO PROVIDE RELIABLE TEMPERATURE READINGS.



4 FIRE ALARM / BAS CONNECTION

NO SCALE

FIRE ALARM / BAS POINTS LIST

PANEL LOCATION: TBD

TAG#	TYPE	POINT NAME	DESCRIPTION
101	BI	FA-ALM	FIRE ALARM-ALARM CONDITION
102	BI	FA-TRBL	FIRE ALARM-TROUBLE
103	BI	FA-SPVSRY	FIRE ALARM-SUPERVISORY SWITCH ALARM
104	BI	FA-WTRFLW	FIRE ALARM-FIRE SUPPRESSION WATER FLOW ALARM

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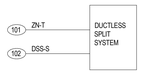
1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

Mechanical Controls

M5.02

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File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt



1 DUCTLESS SPLIT CONTROLS SCHEMATIC (DSS-1)

NO SCALE

DSS-1 INTERFACE SEQUENCE OF OPERATIONS

1. MISC CONTROLS INTERFACE

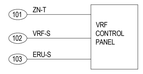
1.1 DUCTLESS SPLIT SYSTEM TO OPERATE BY FACTORY CONTROLS. ZONE SENSOR TO BE PROVIDED TO MONITOR TEMPERATURE IN SPACE.

1.2 CURRENT SWITCH ON DSS-CU-1 TO MONITOR STATUS OF CONDENSING UNIT

DSS-1 POINTS LIST

PANEL LOCATION: TBD

TAG #	TYPE	POINT NAME	DESCRIPTION	REMARKS
101	AI	ZN-T	ZONE TEMPERATURE	ZONE SENSOR
102	DI	DSS-S	DUCTLESS SPLIT STATUS	CURRENT SWITH



2 VRF CONTROL SYSTEM

NO SCALE

VRF CONTROL POINTS

PANEL LOCATION: TBD

TAG #	TYPE	POINT NAME	DESCRIPTION	REMARKS
101	AI	ZN-T	ZONE TEMPERATURE	ZONE SENSOR
102	DI	VRF-S	VRF SYSTEM STATUS	CURRENT SWITCH
103	DI	ERU-S	ERU SYSTEM STATUS	CURRENT SWITCH

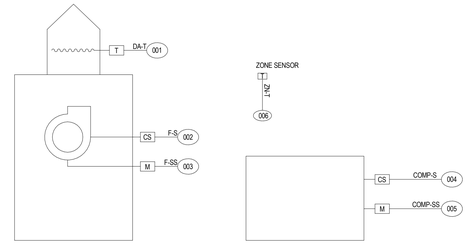
VRF INTERFACE SEQUENCE OF OPERATIONS

1. VRF/ERU TO BE CONTROLLED THROUGH MANUFACTURER CONTROL SYSTEM

1.1 BMS TO MONITOR VRF/ERU SYSTEM THROUGH BACNET INTERFACE CONNECTION

1.2 FINAL VIEWABLE POINTS TO BE DETERMINED BY AVAILABILITY OF VRF/ERU SYSTEM

1.3 ERU TO OPERATE WHEN VRF IS IN OCCUPIED MODE.



3 FURNACE/CONDENSING UNIT CONTROLS SCHEMATIC

NO SCALE

GENERAL NOTES:

1. SEE SPECIFICATIONS FOR DEVICE SPECIFICATIONS.
2. ANY DEVICE REQUIRING POWER MUST BE POWERED BY CONTRACTOR.

FURNACE/CONDENSING UNIT CONTROLS POINTS LIST

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE	GRAPHIC
001	AI	DA-T	DISCHARGE AIR TEMP	THERMISTOR	X
002	DI	F-S	FAN STATUS	CURRENT SWITCH	X
003	DO	F-SS	FAN START STOP	CONTROL RELAY	X
004	DI	COMP-S	COMPRESSOR STATUS	CURRENT SWITCH	X
005	DO	COMP-SS	COMPRESSOR START STOP	CONTROL RELAY	X
006	AI	ZN-T	ZONE AIR TEMP	ZONE SENSOR	X

FURNACE/CONDENSING UNIT SEQUENCE OF OPERATIONS

1. GENERAL

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BMS AND HEAT PUMP INTEGRAL CONTROLS

1.2 FURNACE SHALL BE PROVIDED WITH BACNET INTERFACE TO BE CONNECTED TO BMS SYSTEM

2. FURNACE FAN CONTROL

2.1 START/STOP- THE FAN SHALL BE STARTED AND STOPPED THROUGH THE BMS. ON A COMMAND FOR FAN START, THE FAN SHALL START AND RUN CONTINUOUSLY UNTIL GIVEN A STOP COMMAND. WHEN GIVEN A STOP COMMAND, THE FAN SHALL STOP.

2.2 FAN SHALL OPERATE CONTINOUSLY IN OCCUPIED MODE

2.3 IN UNOCCUPIED MODE FAN SHALL CYCLE CALL FOR HEATING AND COOLING

3. COMPRESSOR AND BURNER

3.1 THE COMPRESSOR AND BURNER SHALL CYCLE AS NECESSARY TO MAINTAIN THE ZONE TEMPERATURE SETPOINT

4. ZONE TEMPERATURE

4.1 THE ZONE TEMPERATURE SHALL BE MEASURED BY THE ZONE THERMOSTAT

4.2 THE ZONE TEMPERATURE SETPOINT SHALL BE DETERMINED BASED ON HEATING/COOLING MODE AND OCCUPANCY MODE

4.2.1. OCCUPANCY MODE SHALL BE SET BY EITHER SCHEDULE OR OCCUPANCY SENSOR

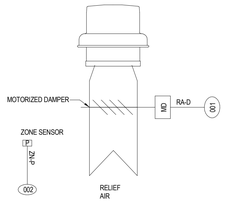
5. SUPPLY AIR TEMPERATURE

5.1. A DUCT-MOUNTED TEMPERATURE SENSOR SHALL MEASURE THE SUPPLY AIR TEMPERATURE

6 ALARMS

6.1 THE BAS SHALL ALARM DURING ANY OF THE FOLLOWING CONDITIONS. A UNIQUE ALARM SHALL BE CREATED FOR EACH CONDITION AND FOR EACH COMPRESSOR.

1. CONDENSATE OVERFLOW.
2. COMPRESSOR FAILURE.
3. FAN FAILURE.
4. SUPPLY AIR HIGH TEMPERATURE.
5. SUPPLY AIR LOW TEMPERATURE.
6. BURNER FAILURE.



7 EXISTING RELIEF HOOD CONTROLS SCHEMATIC

NO SCALE

GENERAL NOTES:

1. TYPICAL TWO (2) EXISTING RELIEF HOODS

EXISTING RELIEF HOOD CONTROLS POINTS LIST

TAG#	TYPE	POINT NAME	DESCRIPTION	DEVICE	GRAPHIC
001	DO	RF-D	RF COMMAND ENABLE	CONTROL RELAY	X
002	AI	ZN-P	ZONE PRESSURE	ZONE SENSOR	X

EXISTING RELIEF HOOD SEQUENCE OF OPERATIONS

1. GENERAL: CONNECT EXISTING RELIEF AIR DAMPERS TO BMS

1.1 CONTROL: CONTROL SHALL BE THROUGH THE BMS.

2. RELIEF DAMPER CONTROL

2.1 OPEN/CLOSE: THE DAMPER SHALL MODULATE OPEN/CLOSE TO MAINTAIN PRESSURE SETPOINT AT SENSOR LOCATED IN GYM.

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A - 003	12/14/2022	Addendum #003

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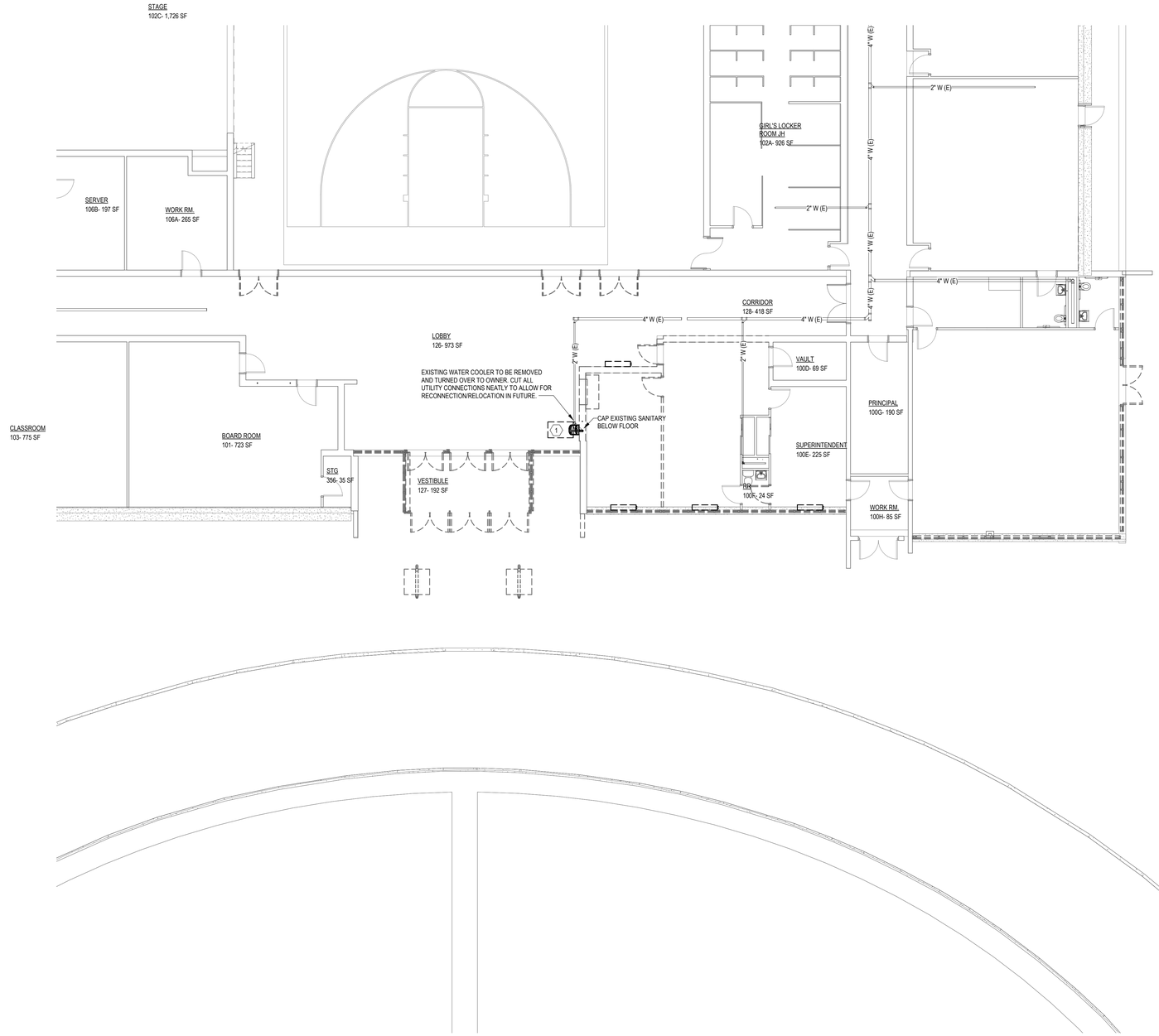
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Mechanical Controls

M5.03

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FIRST FLOOR BELOW FLOOR DEMOLITION PLAN - AREA A

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

(1) RELOCATE WATER COOLER. REFER TO NEW CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION. ALL PIPING SHALL BE REMOVED PACK TO NEAREST ACTIVE PIPE MAIN AND CAPPED. COORDINATE ANY FLOOR OR WALL PATCHING WITH GENERAL CONTRACTOR.

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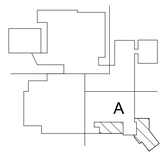
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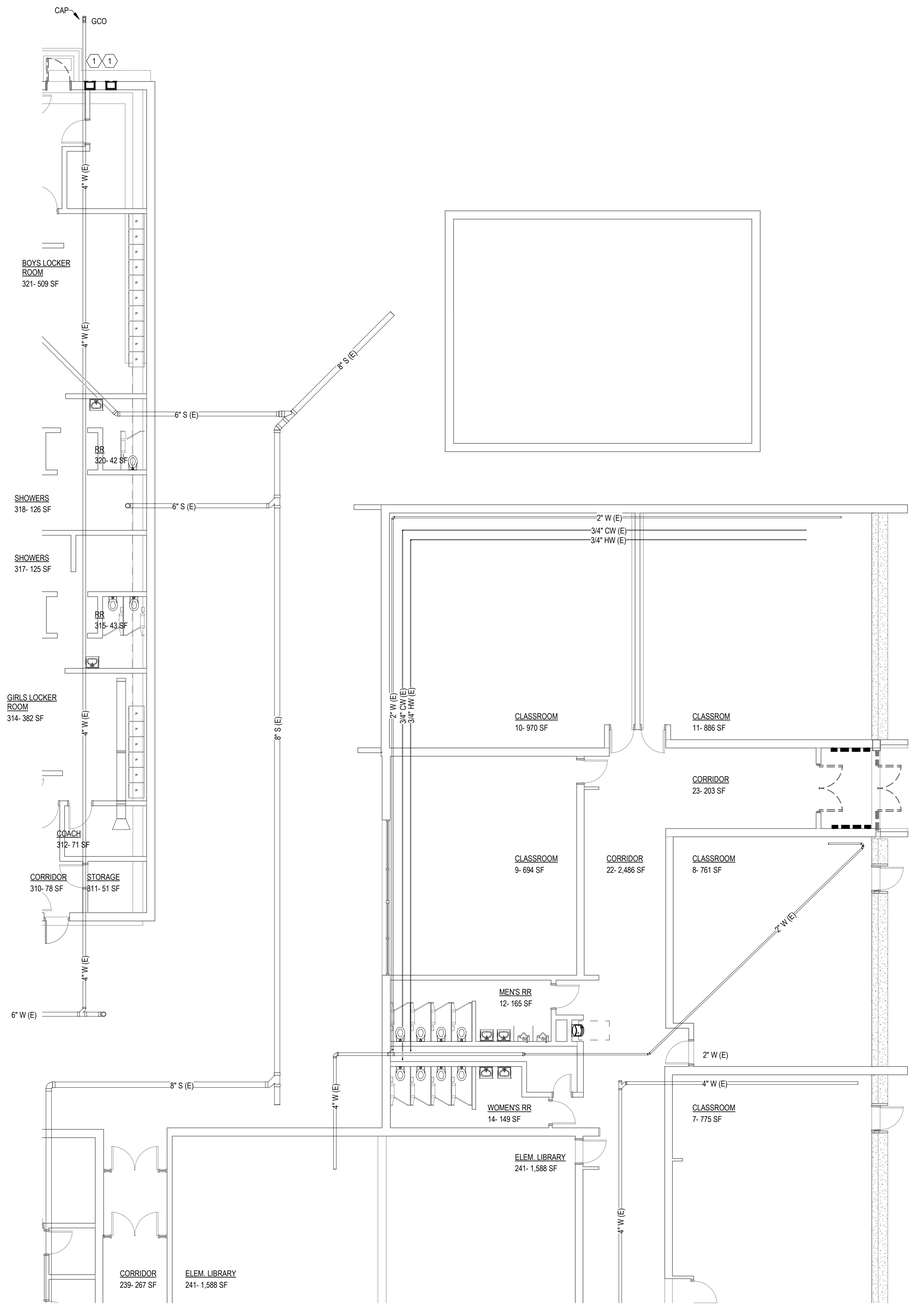
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Below Floor Demolition Plan - Area A

P0.01

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FIRST FLOOR BELOW FLOOR DEMOLITION PLAN - AREA B

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

GENERAL NOTES:

AREA SHOWN FOR REFERENCE. NO BELOW FLOOR DEMOLITION INTENDED IN THIS AREA.

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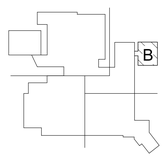
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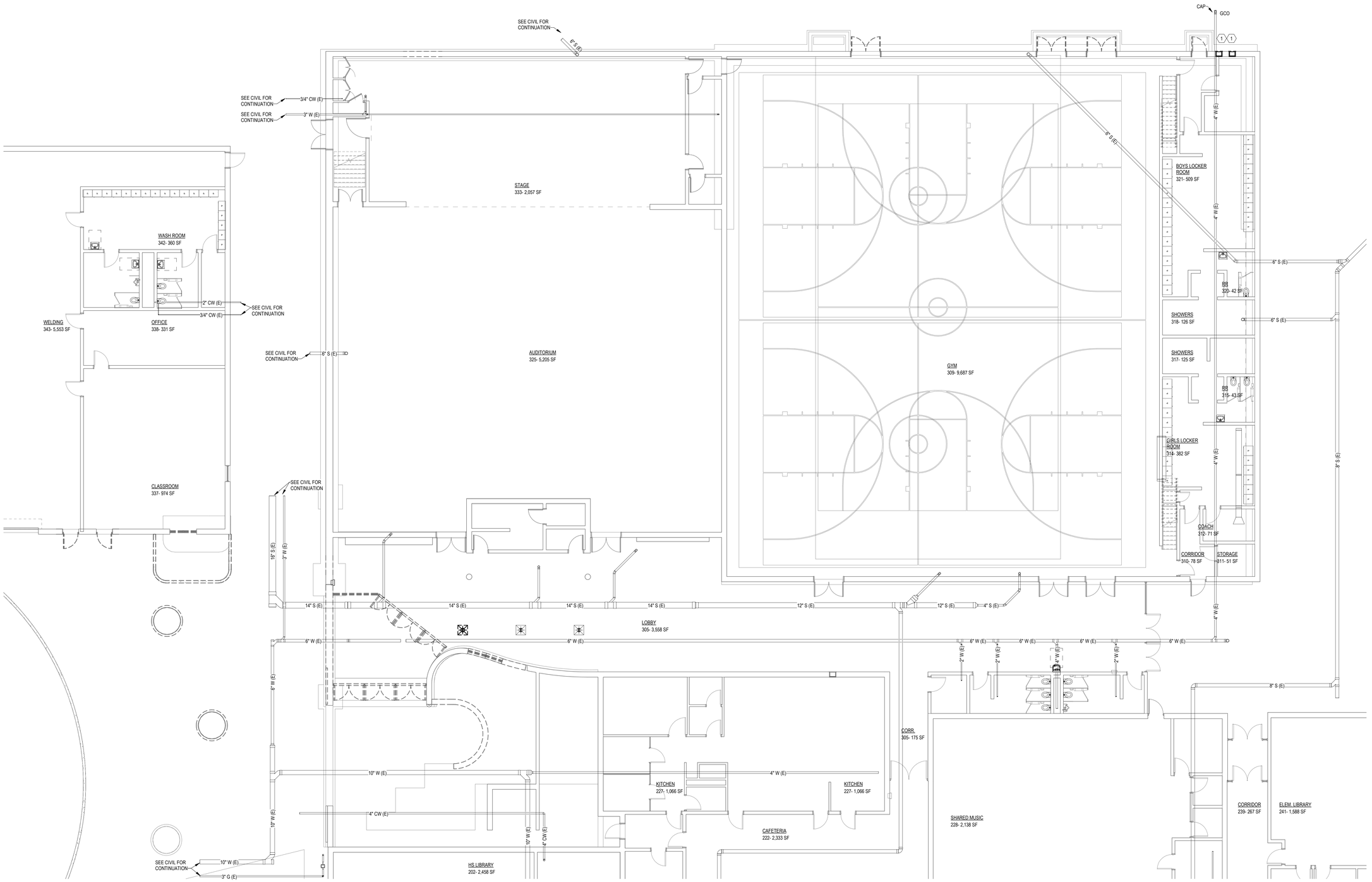
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P0.02

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FIRST FLOOR BELOW FLOOR DEMOLITION PLAN - AREA C

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

(1) REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. ALL PIPING SHALL BE REMOVED PACK TO NEAREST ACTIVE PIPE MAIN AND CAPPED. COORDINATE ANY FLOOR OR WALL PATCHING WITH GENERAL CONTRACTOR.

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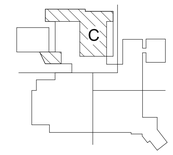
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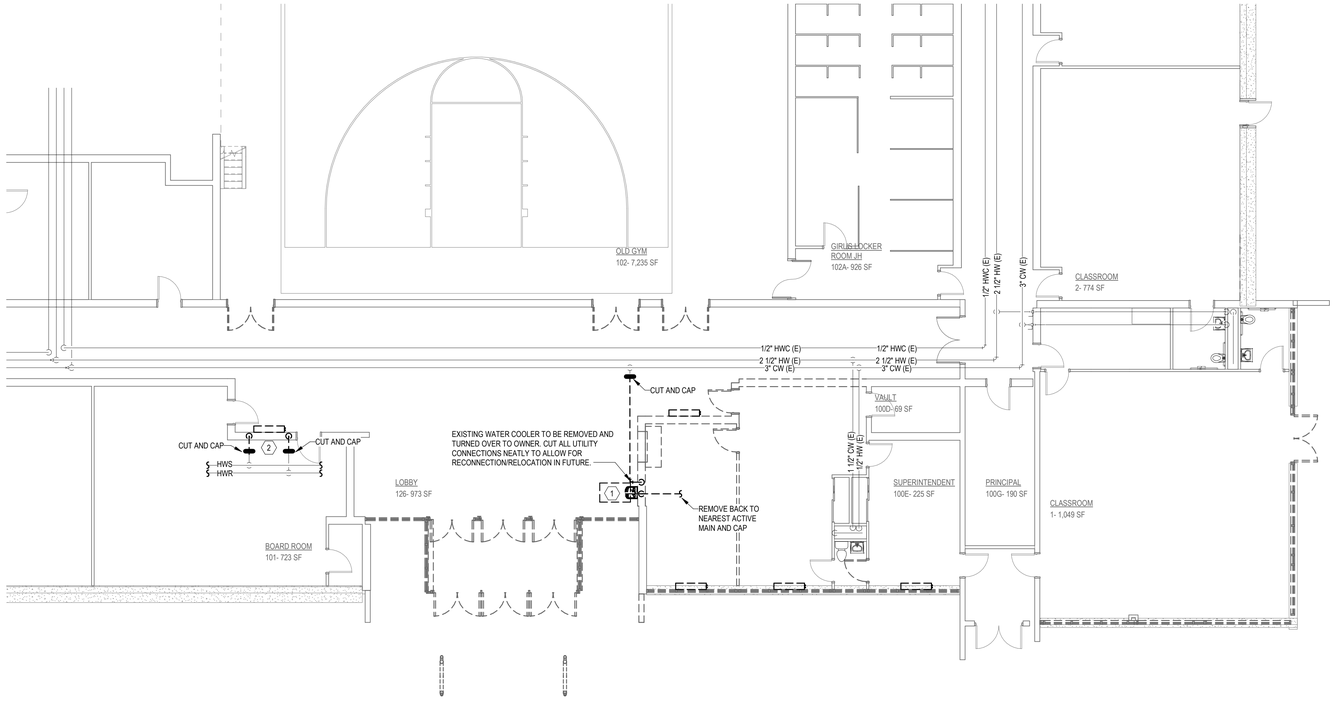
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Below Floor Demolition Plan - Area C

P0.03

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FIRST FLOOR PIPING DEMOLITION PLAN - AREA A

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

(1) RELOCATE WATER COOLER. REFER TO NEW CONSTRUCTION PLANS FOR ADDITIONAL INFORMATION. ALL PIPING SHALL BE REMOVED PACK TO NEAREST ACTIVE PIPE MAIN AND CAPPED. COORDINATE ANY FLOOR OR WALL PATCHING WITH GENERAL CONTRACTOR.

(2) REMOVE HWS & HWR FROM REMOVED CUH TO LOCATION ABOVE CEILING. PIPING TO BE RECONNECTED AND ROUTED TO NEW CUH IN SAME LOCATION WITH NEW PIPE KIT IN PIPING ABOVE CEILING. FIELD VERIFY EXACT LOCATION OF EXISTING PIPING.

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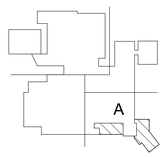
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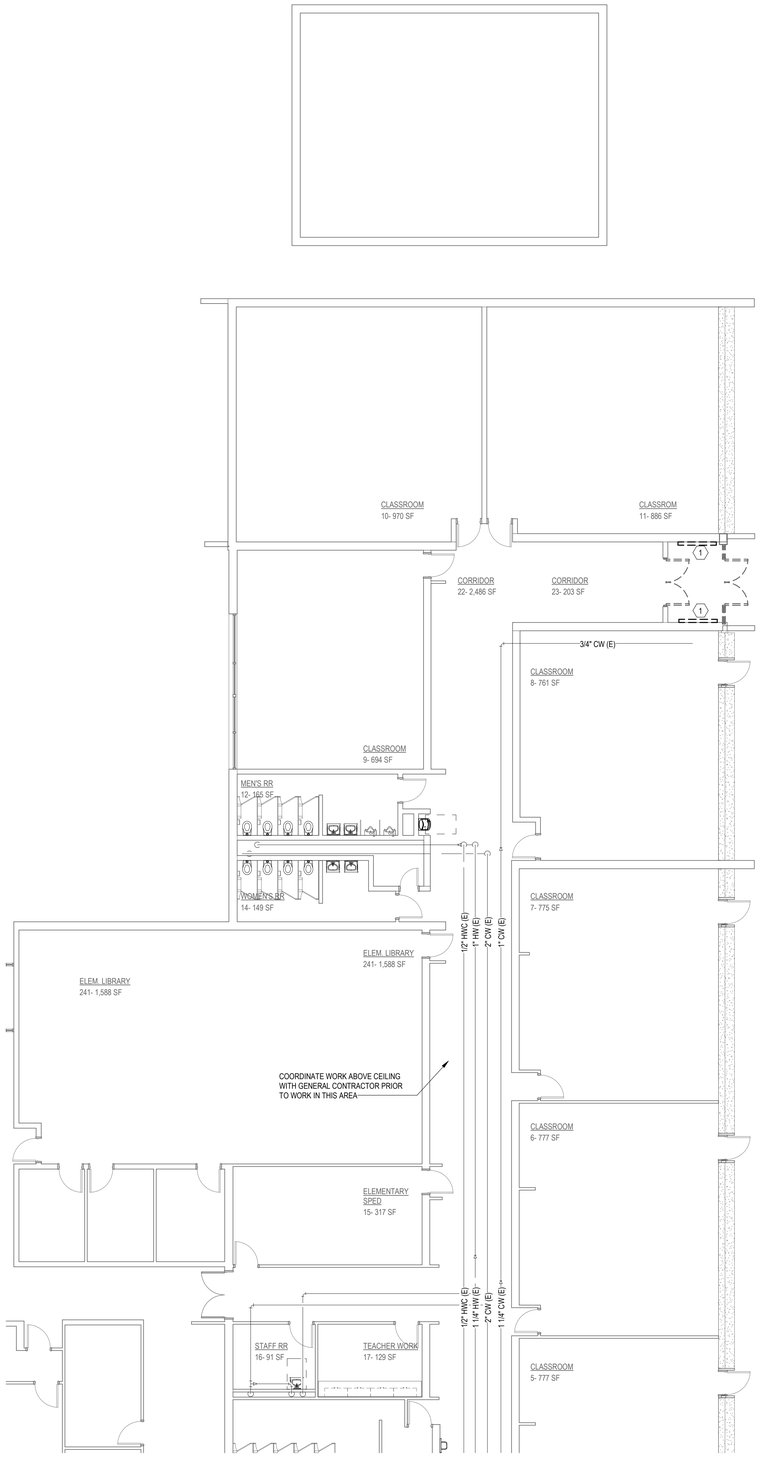
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First Floor Demolition Plan - Area A

P0.04

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FIRST FLOOR PIPING DEMOLITION PLAN - AREA B

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

1. REMOVE EXISTING HOT WATER FINNED TUBE HEATERS IN THEIR ENTIRETY. REMOVE HEATING WATER SUPPLY AND RETURN PIPING TO MAINS AND CAP. REMOVE EXISTING CONTROLS IN THEIR ENTIRETY.

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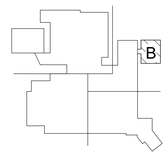
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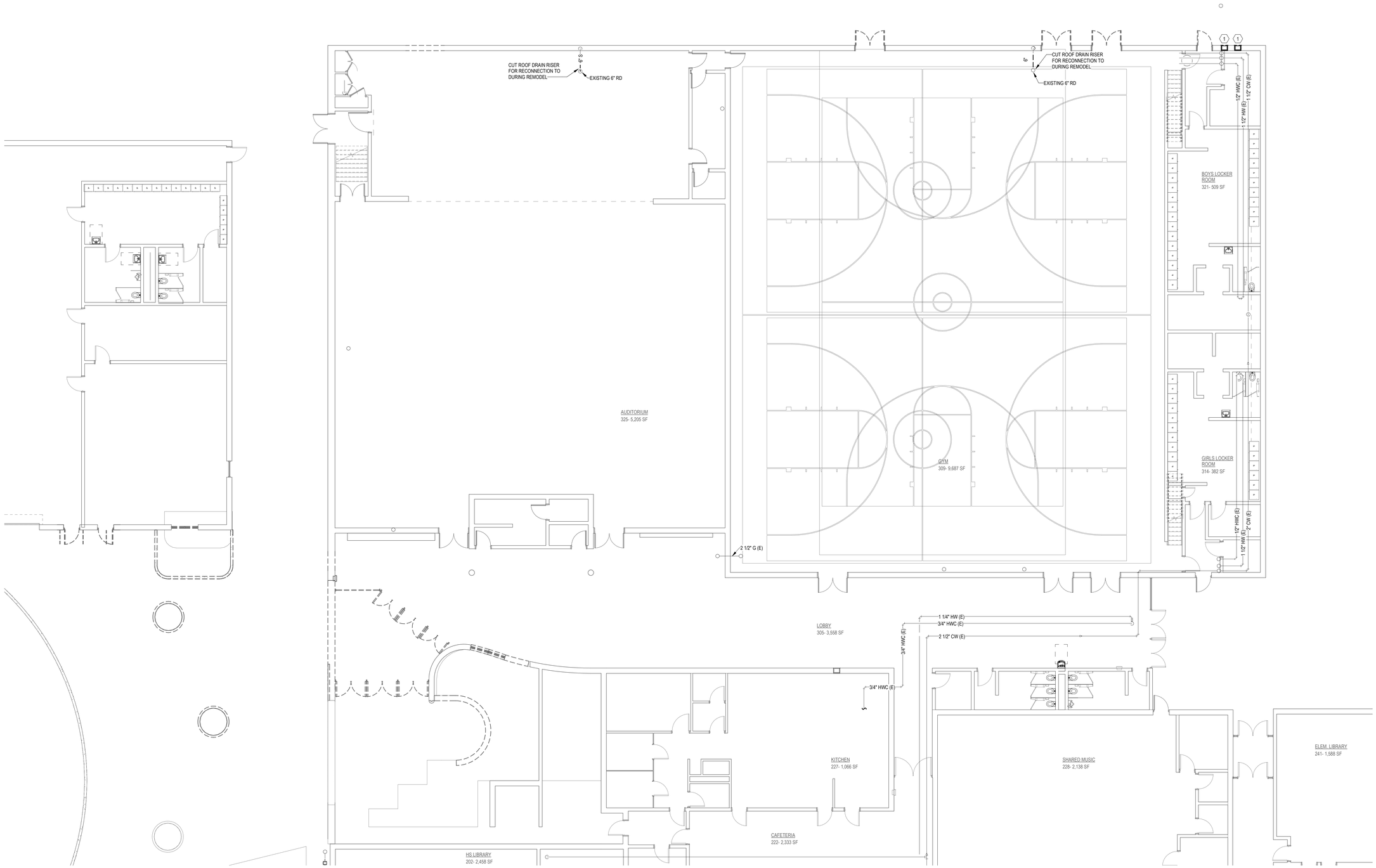
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First Floor Demolition Plan - Area B

P0.05

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FIRST FLOOR PIPING DEMOLITION PLAN - AREA C

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

(1) REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. ALL PIPING SHALL BE REMOVED PACK TO NEAREST ACTIVE PIPE MAIN AND CAPPED. COORDINATE ANY FLOOR OR WALL PATCHING WITH GENERAL CONTRACTOR.

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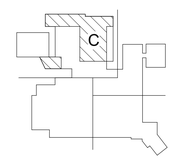
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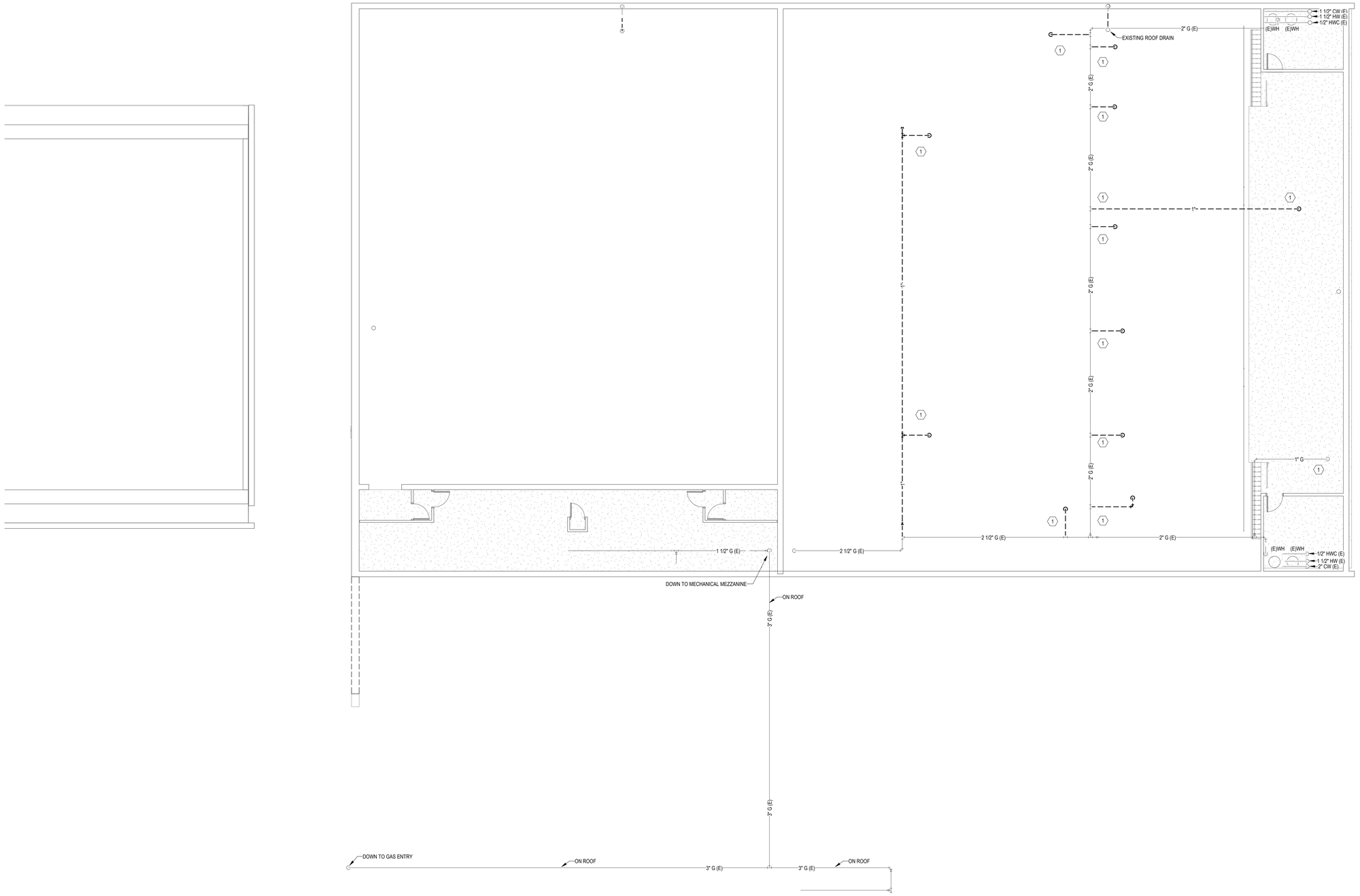
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First Floor Demolition Plan - Area C

P0.06

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SECOND FLOOR PIPING DEMOLITION PLAN - AREA C

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

GENERAL NOTES:

1. LINEWORK INDICATED AS THIN LIGHT LINES ARE EXISTING AND TO REMAIN. LINEWORK INDICATED AS A THICK DASHED LINE TO BE REMOVED.

PLAN NOTES:

(1) REMOVE ALL GAS PIPING SERVING INFRARED UNITS. GAS PIPING SERVING WATER HEATERS TO REMAIN ACTIVE. CAP ALL REMOVED TAPS AT ACTIVE MAIN.

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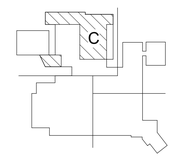
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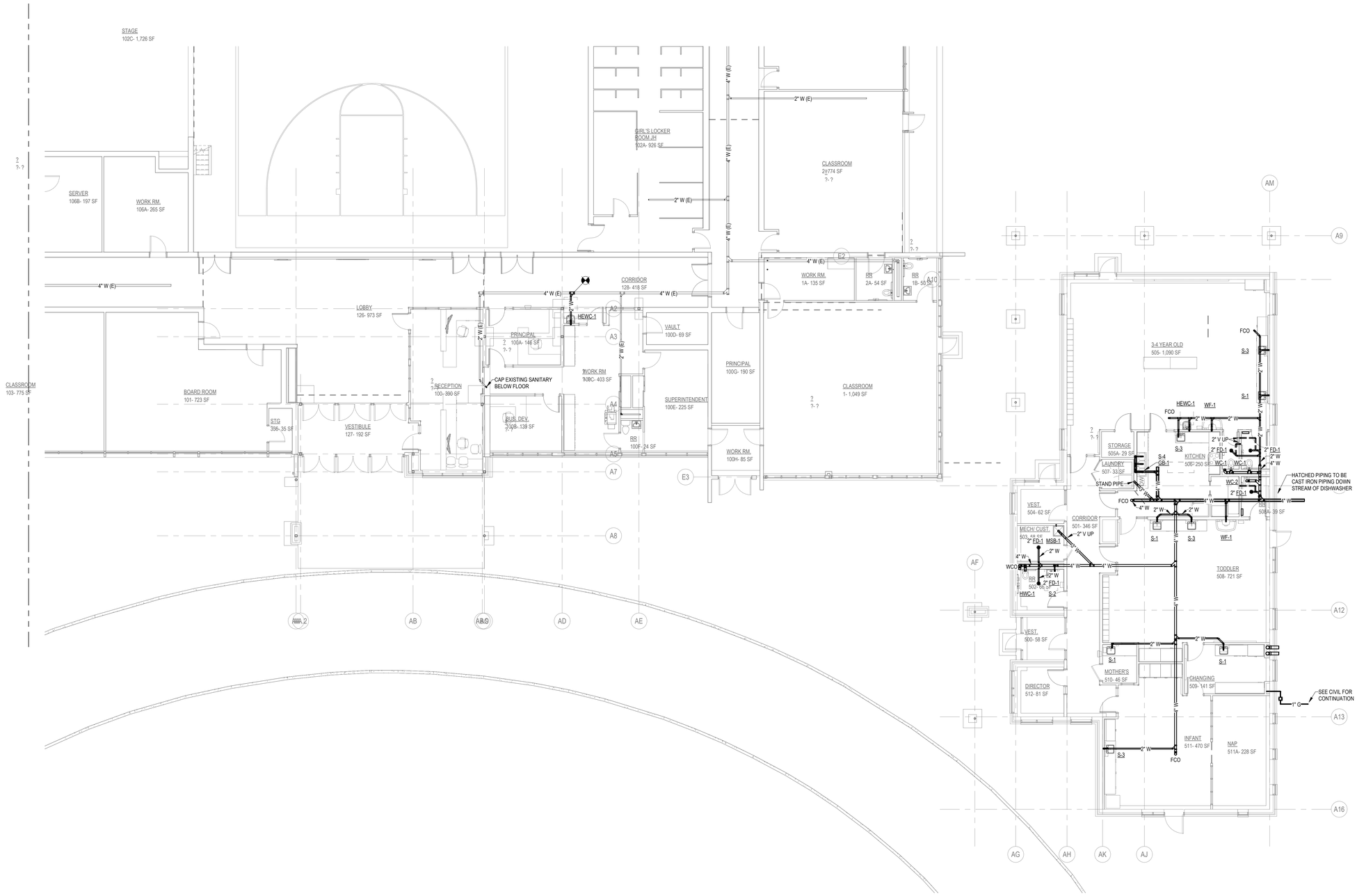
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Second Floor Demolition Plan - Area C

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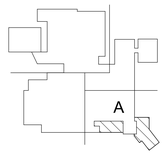
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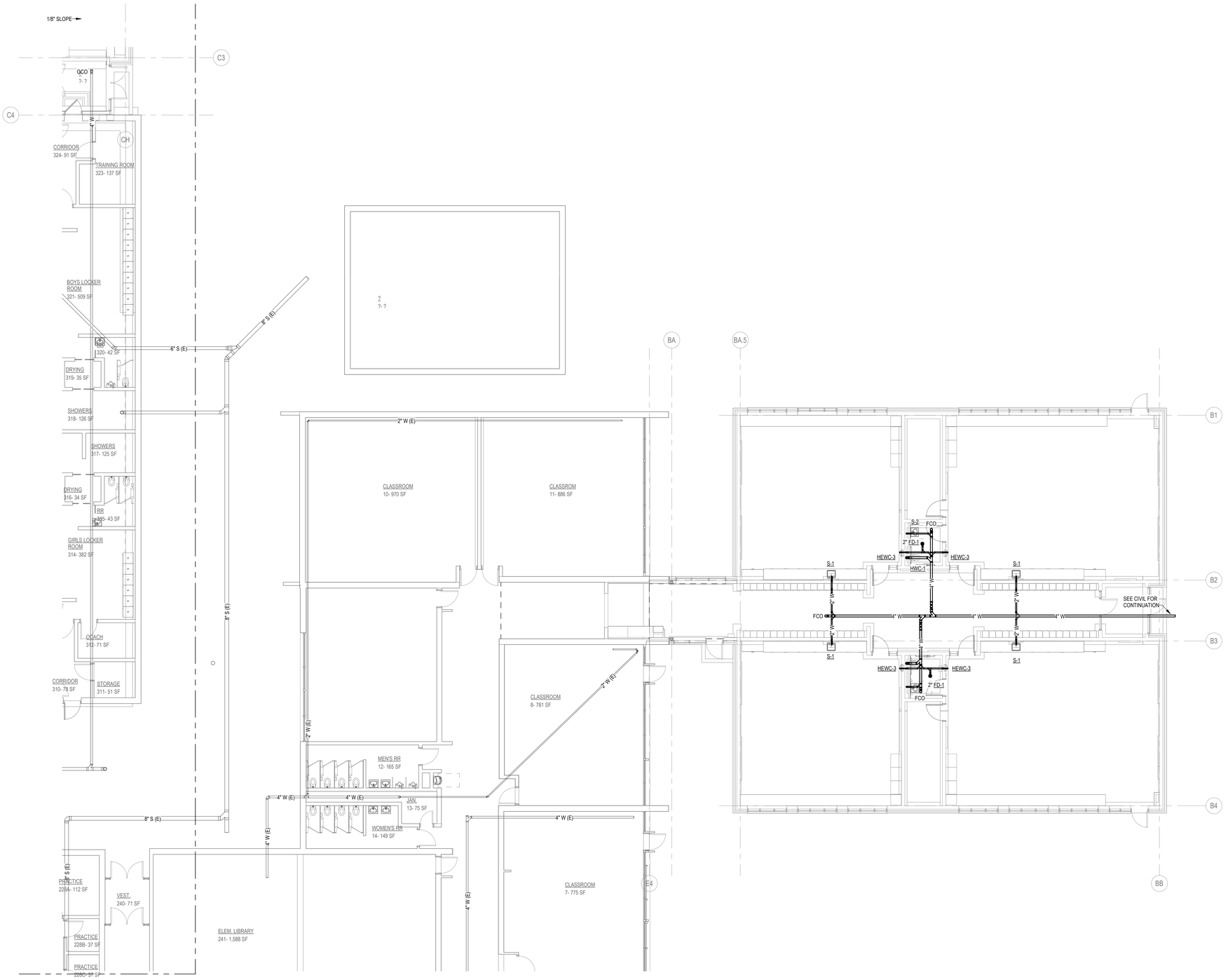
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Below Floor Piping Plan - Area A

P1.01

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BELOW FLOOR PIPING PLAN - AREA B

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

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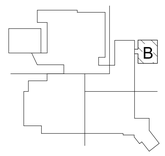
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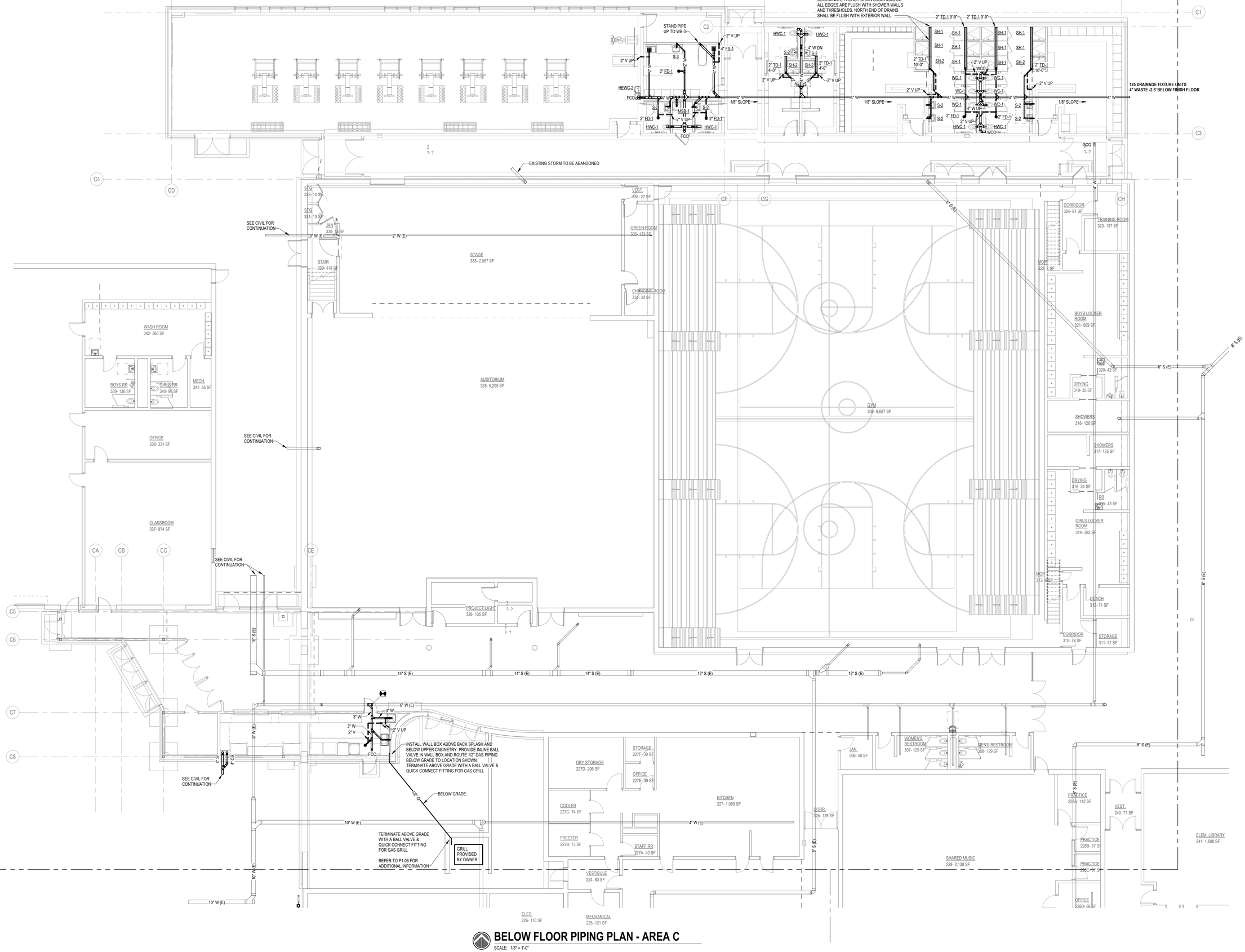
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Below Floor Piping Plan - Area B

P1.02

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BELOW FLOOR PIPING PLAN - AREA C

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

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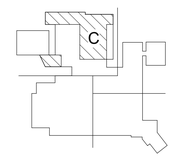
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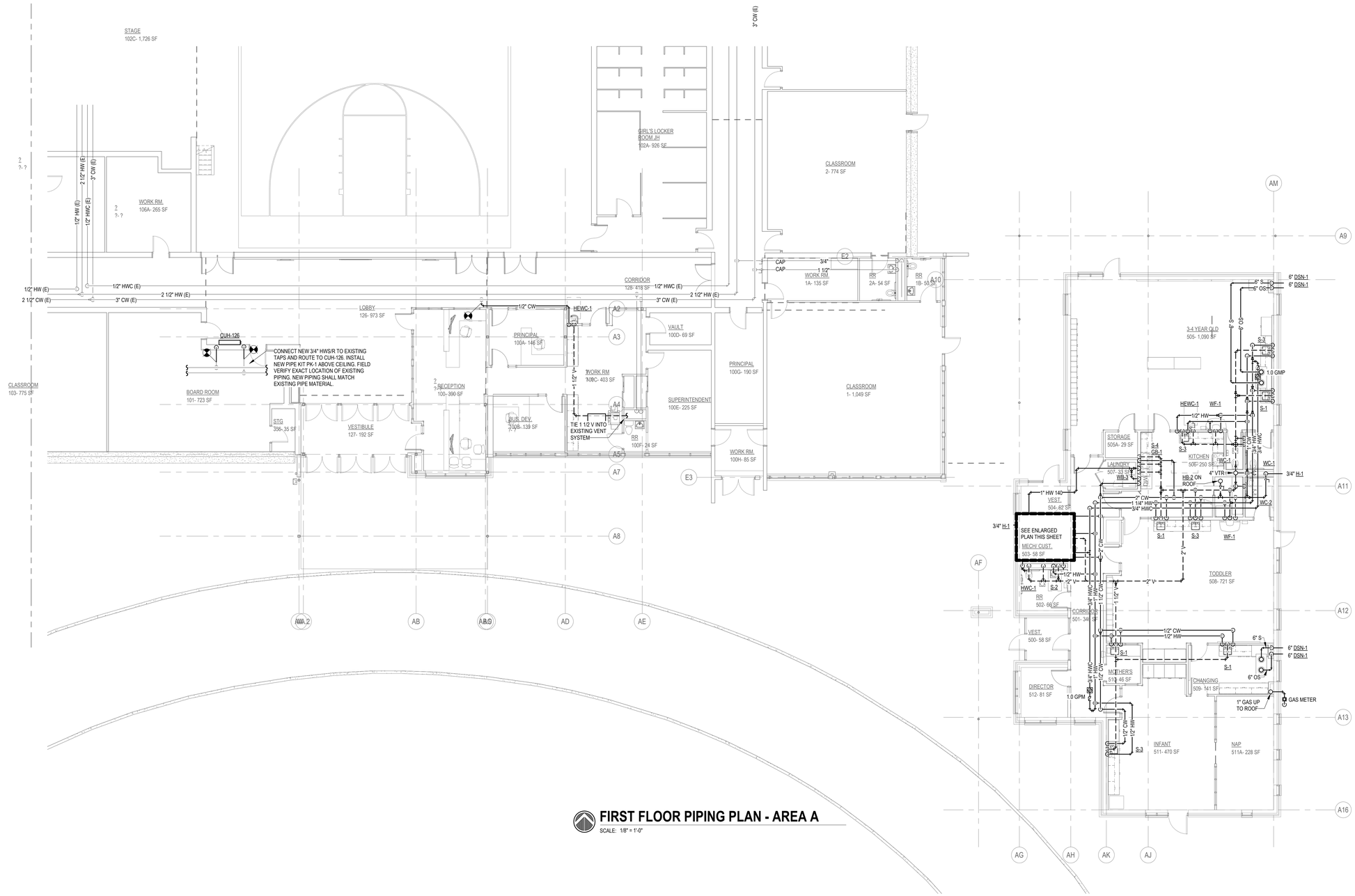
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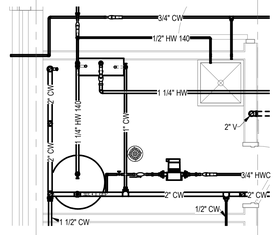
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FIRST FLOOR PIPING PLAN - AREA A

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



ENLARGED MECHANICAL ROOM

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

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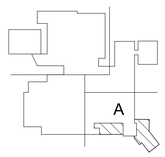
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SHEET HISTORY:

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Key Plan

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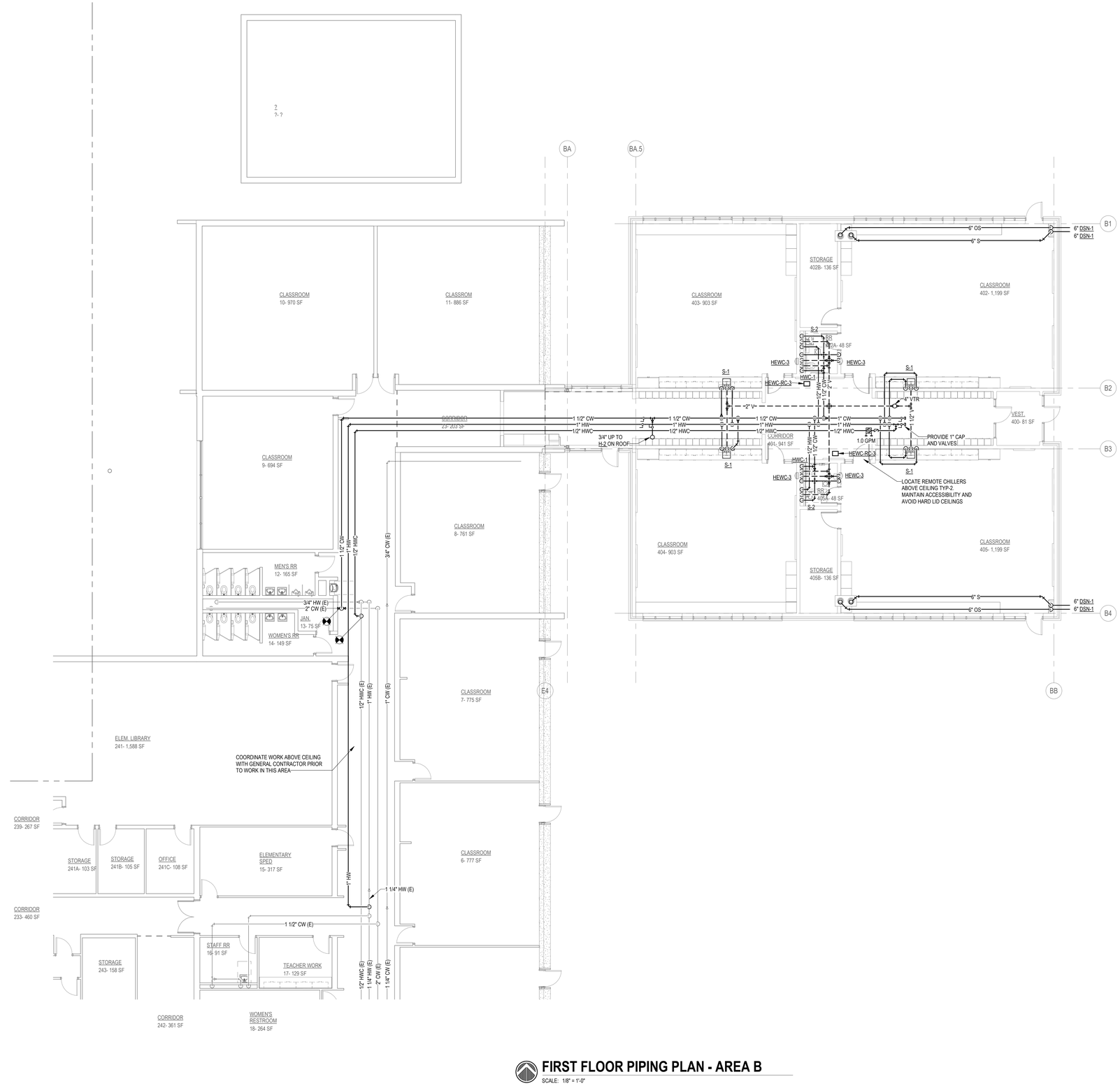
CE No.: 380-001-21

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First Floor Piping Plan - Area A

P1.04

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FIRST FLOOR PIPING PLAN - AREA B

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

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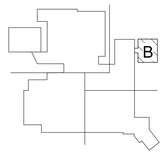
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2
7 - 8

SHEET HISTORY:

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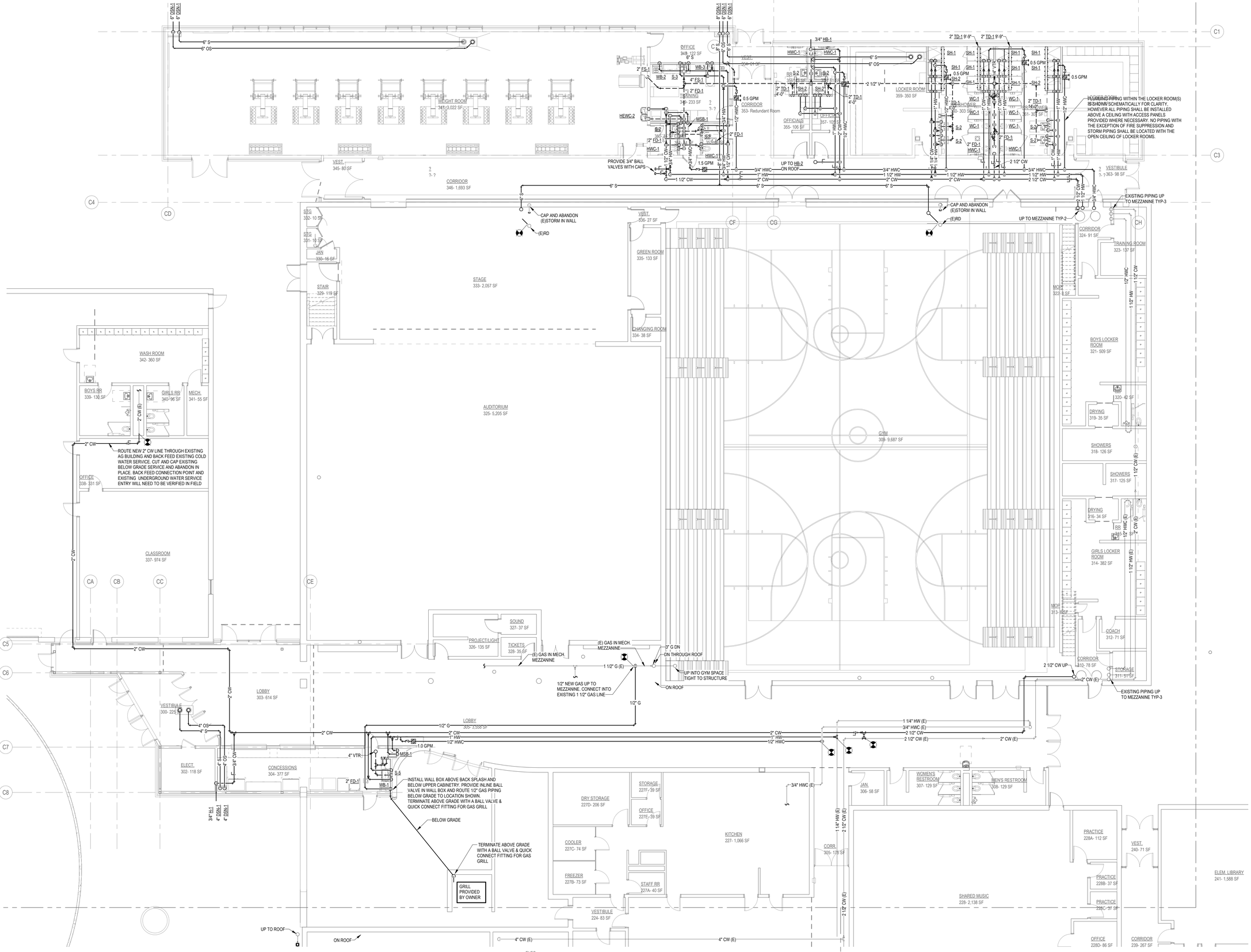
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First Floor Piping Plan - Area B

P1.05

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FIRST FLOOR PIPING PLAN - AREA C

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

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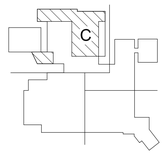
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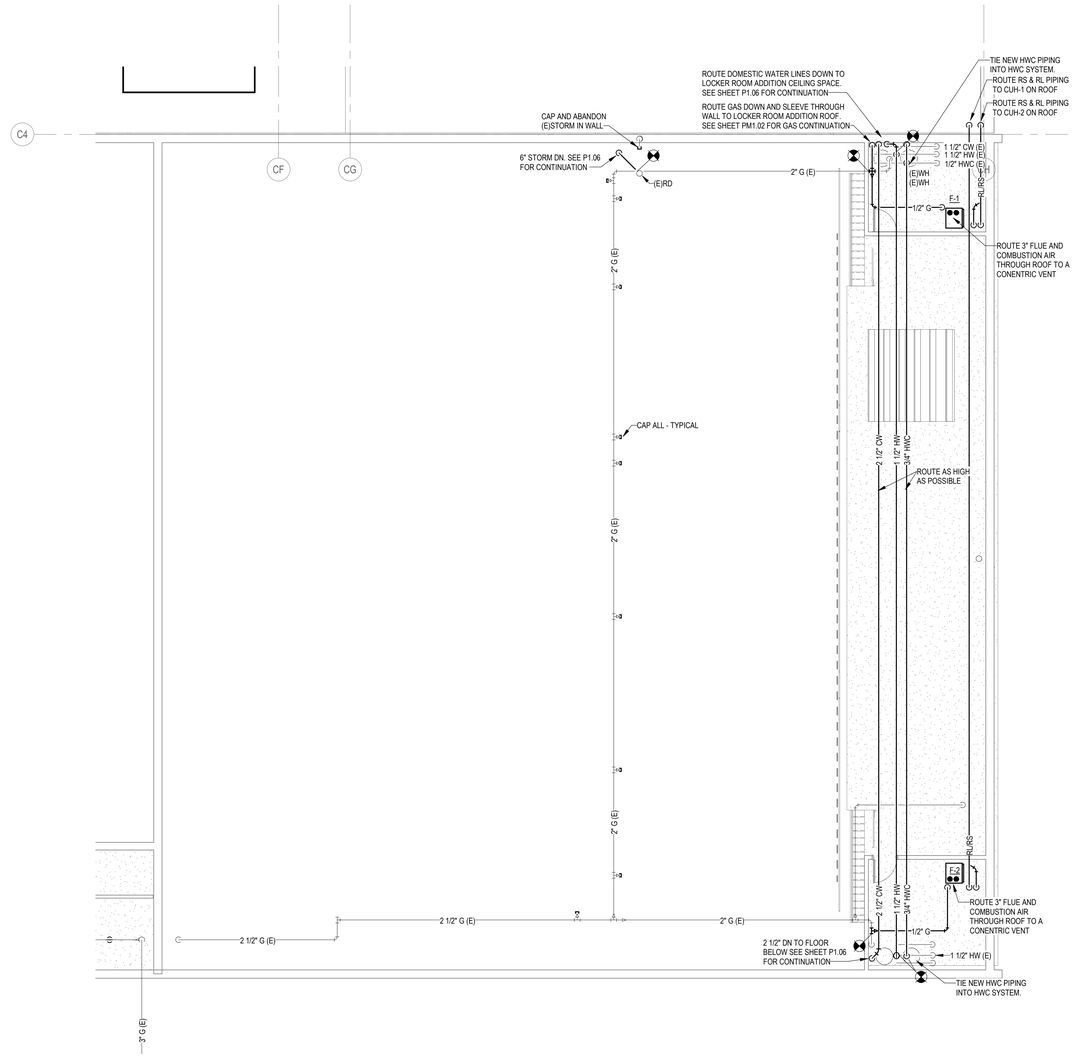
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First Floor Piping Plan - Area C

P1.06



SECOND FLOOR PIPING PLAN

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

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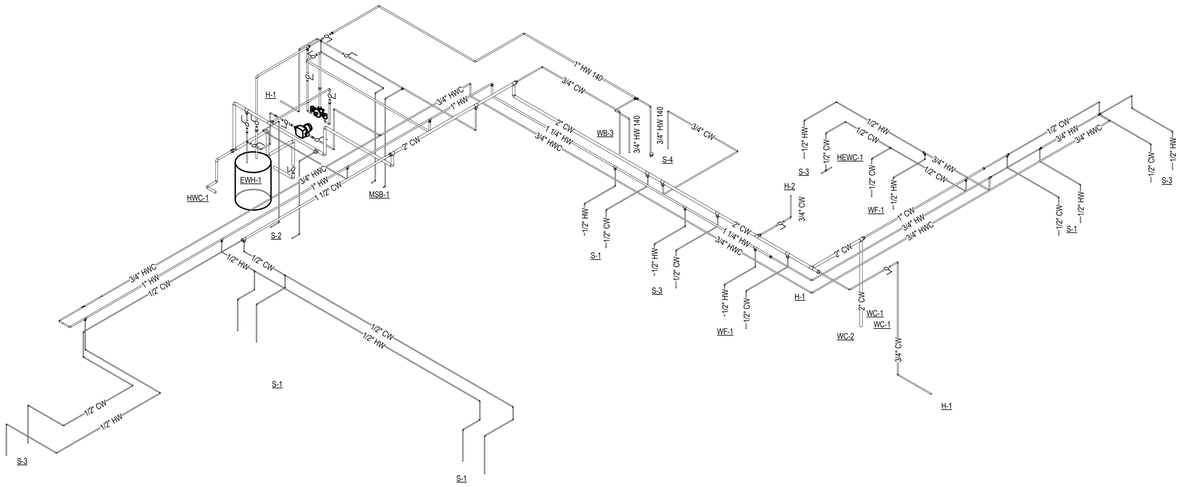
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November 18, 2022

Second Floor Piping Plan

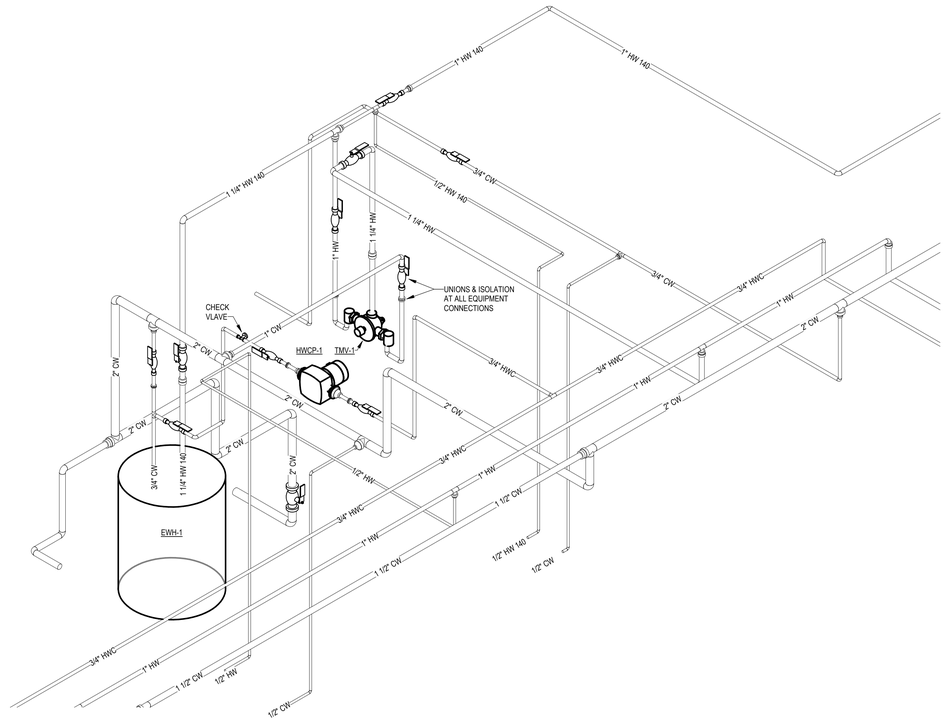
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1 HOT & COLD RISER DIAGRAM - AREA A

SCALE:



2 HOT & COLD RISER DIAGRAM - MECHANICAL ROOM

SCALE:

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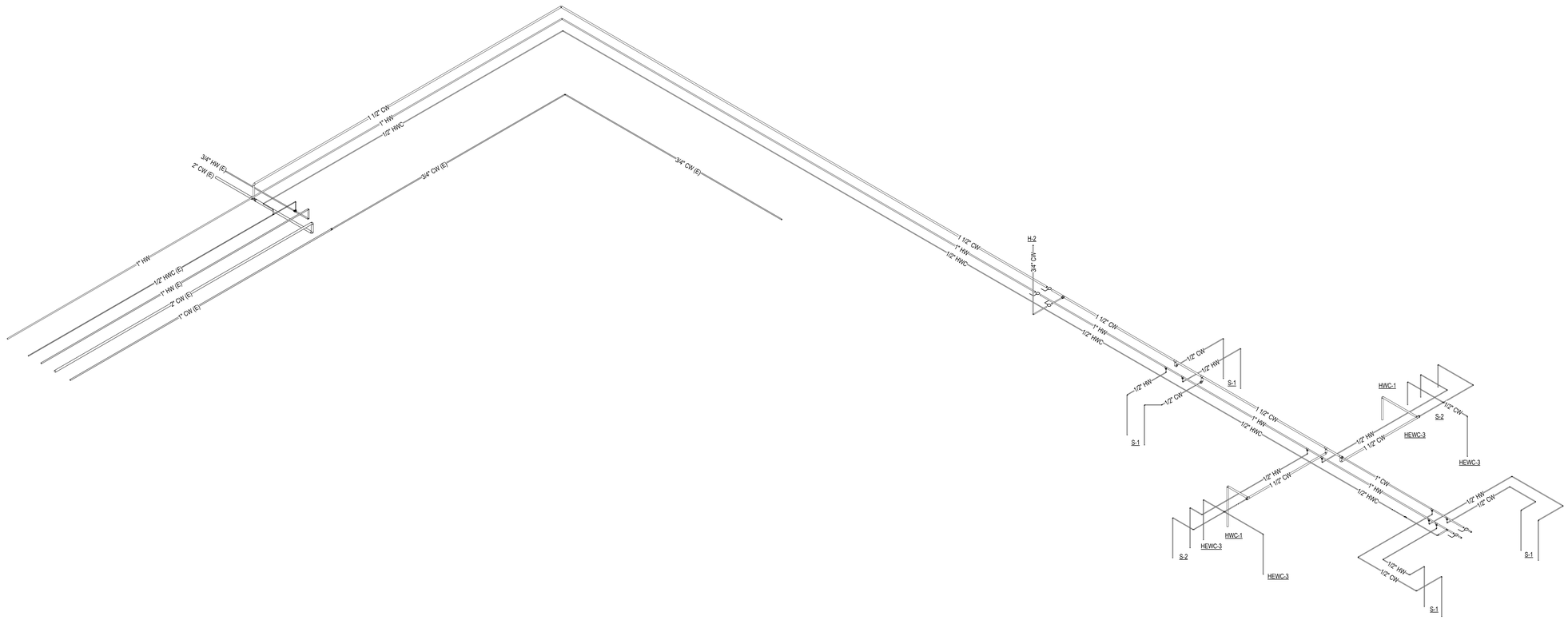
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November 18, 2022

Plumbing Riser Diagram

P2.01

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1 HOT & COLD RISER DIAGRAM - AREA B

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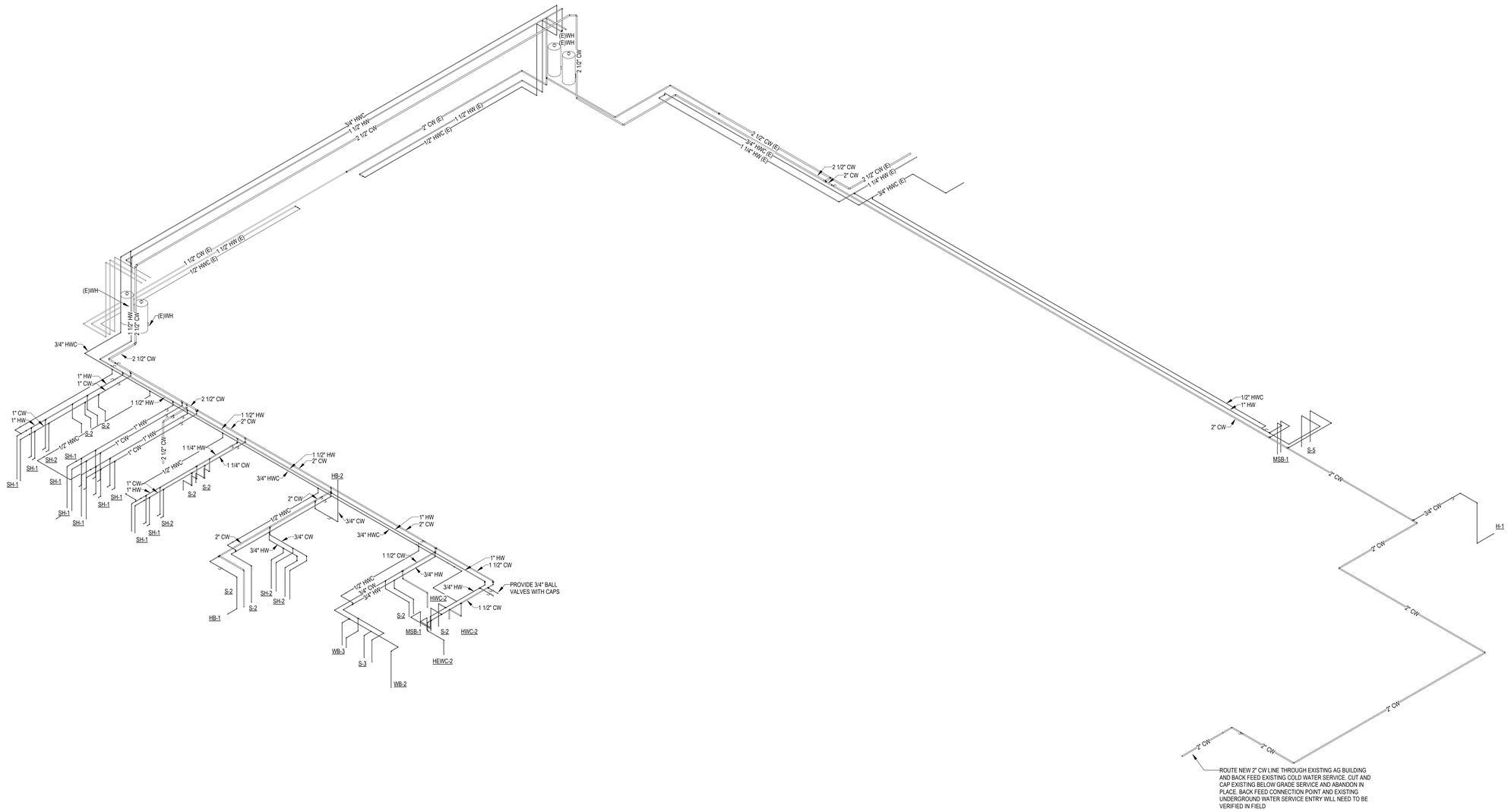
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November 18, 2022

Plumbing Riser Diagrams

P2.02

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1 HOT & COLD RISER DIAGRAM - AREA C

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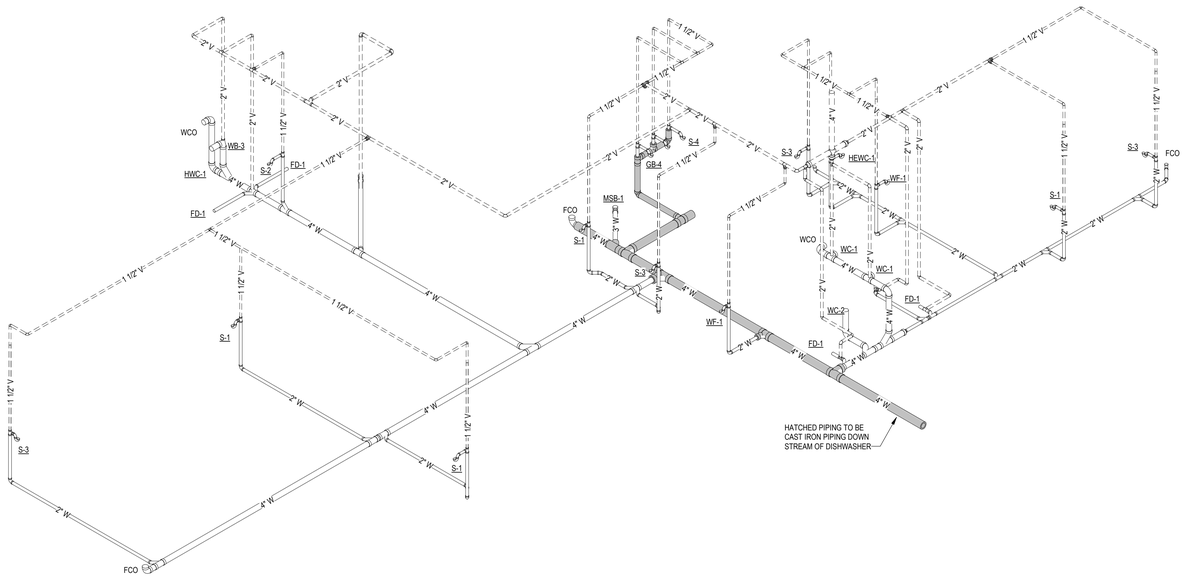
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Plumbing Riser Diagrams

P2.03

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1 WASTE & VENT RISER DIAGRAM - AREA A

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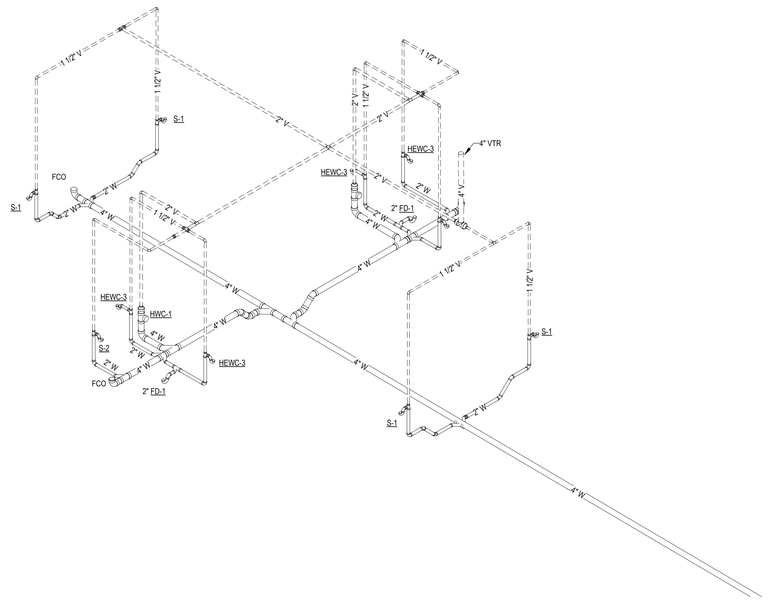
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Riser Diagrams

P2.04

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1 WASTE & VENT RISER DIAGRAM - AREA B

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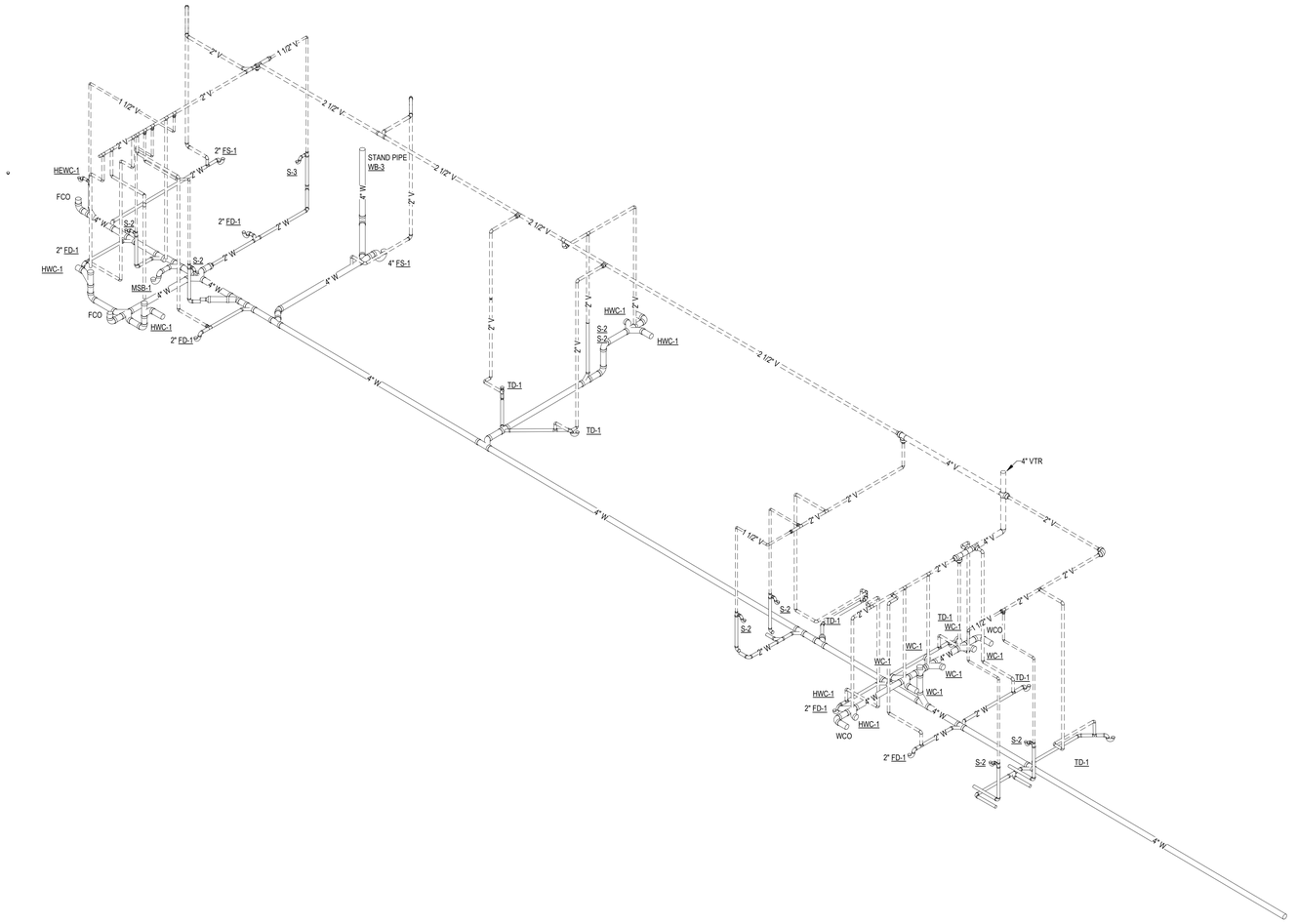
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Riser Diagrams

P2.05

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1 WASTE & VENT RISER DIAGRAM - AREA C

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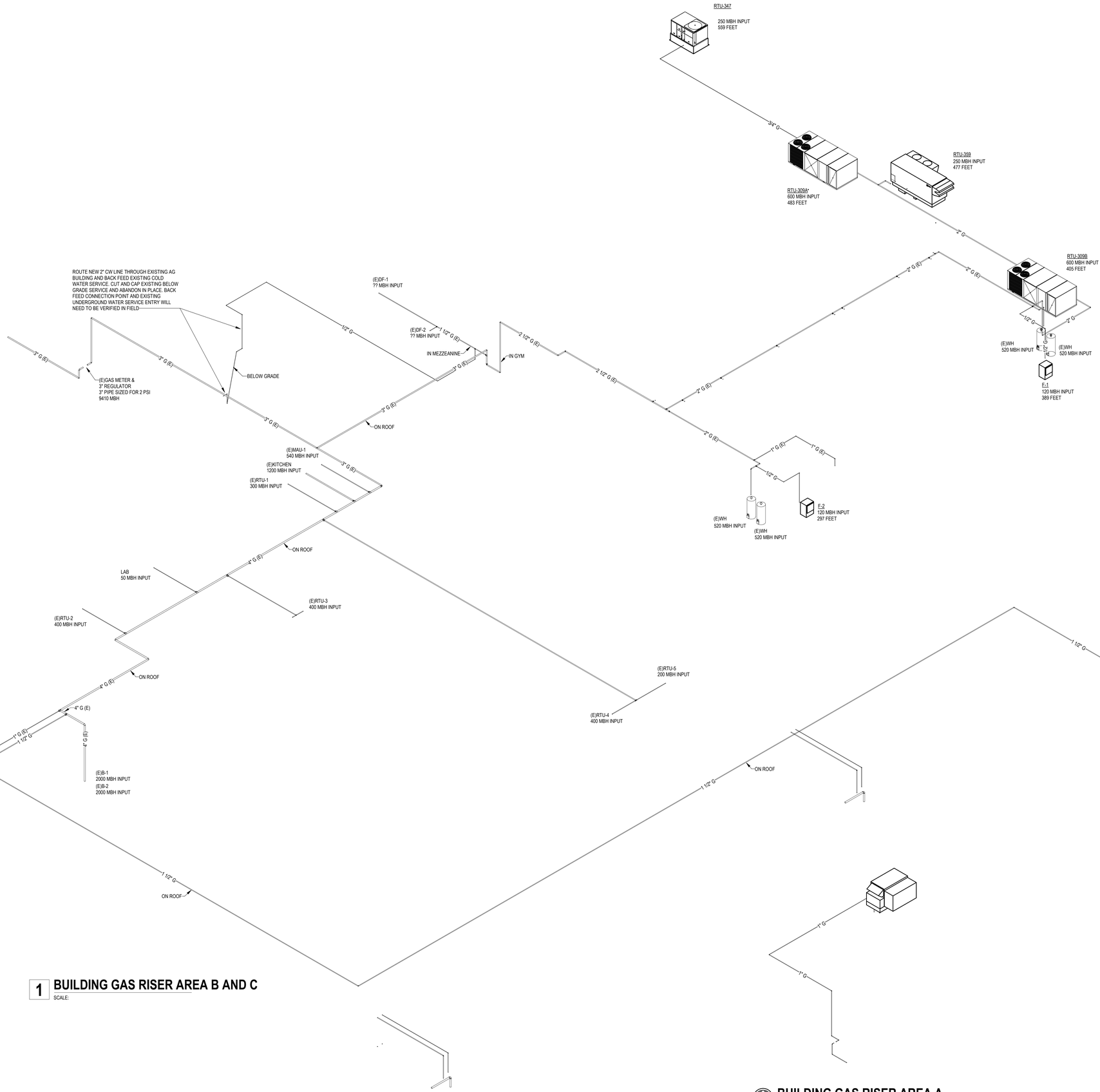
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Riser Diagrams

P2.06

Plot Time Stamp: 5/8/2023 11:55:32 AM
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1 BUILDING GAS RISER AREA B AND C

SCALE:

BUILDING GAS RISER AREA A

SCALE:

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Gas Diagram

P2.07

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BACKFLOW PREVENTER SCHEDULE

MARK:	SERVES:	TYPE:	OPERATING CONDITIONS PEAK FLOW (GPM):	WPD:	PRESSSURE:	SIZE:	BODY:	INLET VALVE:	OUTLET VALVE:	STANDARD APPROVAL:	MFR. OR EQUIVALENT:	MODEL:	REMARKS:
BFP-1	FIRE SPRINKLER SYSTEM	DOUBLE CHECK FM APPROVED		5 PSID	175 PSIG	8"	STAINLESS STEEL	OS & Y	OS & Y	ASSE STD 1015, AWWA C510-97, UL AND FM	WATTS	757LF	1

REMARKS:
1. BACK FLOW PREVENTER IS TO BE APPROVED BY CITY OF HENDERSEN WATER DEPARTMENT

WATER HEATER SCHEDULE

MARK	GALLON CAPACITY	GPH RECOVERY	KW	VOLTS	PHASE	MANUFACTURER	MODEL OR EQUIVALENT	REMARKS
EWH-1	50	68 @ 140 DEGF.	6	208	3	AO SMITH	DEL-50	1,2,3,

REMARKS:
1. GLASSLINED TANK.
2. ENTIRE UNIT TO BE UL RATED. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR
3. PROVIDE FACTORY ASME T & P RELIEF VALVE AND DRAIN PIPING CONNECTION WITH FULL SIZE COPPER DRAIN PIPING ROUTED DOWN INTO NEAREST FLOOR DRAIN INDIRECT CONNECTION.
4. WATER SUPPLY 120 DEGREE WATER

PLUMBING FIXTURE AND CONNECTION SCHEDULE

MARK:	FUNCTION:		MANUFACTURER AND MODEL:	WASTE:	VENT:	HW:	CW:
DSN-1	DOWNSPOUT NOZZLE	NOZZLE	MIFAB R1940 OR EQUIVALENT NICKLE BRONZE BODY, THREADED OUTLET, WALL ANCHOR FLANGE WITH COUNTERSUNK HOLES.	SEE PLANS			
EWH-1	ELECTRIC WATER HEATER	HEATER	AO SMITH DEL-50 OR EQUIVALENT 51 GALLON NOMINAL CAPACITY, NON-SIMULATANEOUS OPERATION (2) 6000 W ELEMENTS, 36 DEGREE TEMP RISER, 68 GALLONS PER HOUR 208 3 PHASE			3/4"	
FD-1	FLOOR DRAIN	DRAIN	MIFAB F1000 OR EQUIVALENT CAST IREON FLOOR DRAIN, ANCHOR FLANGE, WEEPHOLES, STANDARD HEAVY DUTUE, PLISHED STAINLESS STEEL STRAINER. - VERIFY FLOOR MEMBRANE QUANTIES	2"	2"		
FS-1	FLOOR SINK	DRAIN	MIFAB FS1720-FL OR EQUIVALENT 12"x12"x6" CAST IRON, WHITE ACID RESISTANCT PORELAIN ENAMEL COATED INTERIOR. LOOSE SET GRATE AND ANCHOR FLANGE WITH WEEPHOLES. ALLUMINUM DOME STRAINER, PROVIDE HALF GRATE OPTION.	2"	2"		
GB-1	GARBAGE DISPOSAL	DISPOSAL	INSINKERATOR - BADGER 1 HP - OR EQUIVALENT 1.O HORSEPOWER, 120 VOLTS, 60 HZ, SINGLE PHASE, 1.5" SLIP JOINT, DISHWASHER CONNECTION	1 1/2"			
H-1	WALL HYDRANT	HYDRANT	WOODFORD MODEL 68 OR EQUIVALENT - FREEZELESS UNDER COVER WALL HYDRANT BRASS HEAD, STAINLESS STEEL COVER, BACKFLOW RREVENTION				3/4"
H-2	ROOF HYDRANT	HYDRANT	WOODFOR MODEL SRH-MS OR EQUIVALENT - FREEZELESS SANITARY ROOF HYDRANT, NO DRAIN REQUIREMENT, BACKFLOW PREVENTION				3/4"
HEWC-1	SINGLE WATER COOLER WITH BOTTLE FILLER	COOLER	ELKAY MODEL LMABF8WSLK OR EQUIVALENT 8.0 GPH GALLONS PER HOUR OF 50 DEGREE DERINKING WATER BASED ON 80 DEGREE INLET. 115V/60Hz, 6 FULL LOAD AMPS	2"	1 1/2"		1/2"
HEWC-2	BI-LEVEL WATER COOLER WITH BOTTLE FILLER	COOLER	ELKAY MODEL LMABFTL8WSLK 8.0 GPH GALLONS PER HOUR OF 50 DEGREE DERINKING WATER BASED ON 80 DEGREE INLET. 115V/60Hz, 6 FULL LOAD AMPS	2"	1 1/2"		1/2"
HEWC-3	BOTTLE FILLER WITH REMOTE CHILLER	FILLER	ELKAY MODEL LBWD06 PROVIDE REMOTE CHILLER OPTION. COLOR TO BE CHOSEN DURING SHOP DRAWINGS	2"	1 1/2"		1/2"
HEWC-RC-3	BOTTLE FILLER REMOTE CHILLER	CHILLER	ELKAY MODEL ECH8 OR EQUIVALENT SERVES (2) HEWC-3, 8.0 GPH, 5 FLA,	SEE PLANS			
MSB-1	MOP SINK	SINK FAUCET	FIAT MODEL MSBIDTG2424 24/24/10 BASIN, PROVIDE OPTIONAL COMPNENTS, HOSE BRACKET, MOP HANKER, WALL GUARD, SILICONE SEALANT FIAT MODEL 830AA CHROME PLATED WITH VACUUM BREAKER, INTERRAL STOPS, PAIL HOOK AND 3.4" HOSE THREAD	3"	2"	3/4"	3/4"
S-1	ADA CLASSROOM SINK	SINK FAUCET TRAP: SUPPLIES: MIXING VALVE	ELKAY MODEL LRAD191945 OR EQUIVALENT BOWL DIM. 16" x 13 1/2" x 4 3/8" ADA COMPLIANT, ELKAY LK99 DRAIN. AMERICAN STANDARD TWO HANDLE 8" WIDESPREAD LAVATORY FAUCET - MODEL 6540.168 OR EQUIVALENT 6" WRIST BLADE HANDLE RIDGID/SWIVEL 8" REACH SPOUT CERAMIC DISC VALVE CARTRIGES 1.5 GPM MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON. LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES. POWERS HYDRO GUARD LFLM495 OR EQUIVALENT	2"	1 1/2"	1/2"	1/2"
S-2	WALL HUNG SINK PRIVATE RESTROOM	SINK FAUCET TRAP: SUPPLIES: MIXING VALVE	AMERICAN STANDARD ALL HUNG LAVATORY - MODEL 0355.012 VITREOUS CHINE, FRONT OVERFLOW, DELF DRAINGING DECK, ADA COMPLIANT, 4" CENTERS PROVIDE CONCEALED ARMS. AMERICAN STANDARD SINGLE CONTROL CENTERSET FAUCET - MODEL 6114.111.002 CAST BRASS, LESS POP UP DRAIN, 1.5 GPM MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON. LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES. POWERS HYDRO GUARD LFLM495 OR EQUIVALENT	2"	1 1/2"	1/2"	1/2"
S-3	CLASSROOM SINK	SINK FAUCET TRAP: SUPPLIES: MIXING VALVE	ELKAY MODEL DLR191910PD OR EQUIVALENT BOWL DIM. 16" x 13 1/2" x 10", ELKAY LK99 DRAIN. AMERICAN STANDARD TWO HANDLE 8" WIDESPREAD LAVATORY FAUCET - MODEL 6540.168 OR EQUIVALENT 6" WRIST BLADE HANDLE RIDGID/SWIVEL 8" REACH SPOUT CERAMIC DISC VALVE CARTRIGES 1.5 GPM MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON. LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES. POWERS HYDRO GUARD LFLM495 OR EQUIVALENT	2"	1 1/2"	1/2"	1/2"
S-4	3 BOWL KITCHEN SINK DAYCARE	SINK FAUCET TRAP- SUPPLIES: MIXING VALVE	ELKAY TRIPLE BOWL DROP IN SINK - MODEL LTR542210 OR EQUIVALENT EACH BOWL - 16"x16"x10" STAINLESS STEEL - COORDINATE DRAIN ACCESSORIES WITH DISHWASHER & GARBAGE DISPOSAL MOEN SINGLE HANDLE PRE-RINSE SPRING PULLDOWN KITCHEN FAUCET - MODEL S5235 OR EQUIVALENT PULLDOWN SPRAY 68" BRADED HOSE, HIGH ARCH SPOUT, 1.5 GPM MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON. LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES. POWERS HYDRO GUARD LFLM495 OR EQUIVALENT	2"	1 1/2"	1/2"	1/2"
S-5	DEEP SINGLE BOWL SINK CONCESSIONS	SINK FAUCET TRAP: SUPPLIES: MIXING VALVE	ELKAY SINGLE BOWL DROP IN SINK - MODEL DLRS332210 BOWL DIM. 28"x22"x10" STAILESS STEEL MOEN SINGLE HANDLE PRE-RINSE SPRING PULLDOWN KITCHEN FAUCET - MODEL S5235 OR EQUIVALENT PULLDOWN SPRAY 68" BRADED HOSE, HIGH ARCH SPOUT, 1.5 GPM MINIMUM 17 GAUGE CHROME PLATED CAST BODY WITH ESCUTCHEON. LEAD FREE CHROME PLATED LOOSE KEYSTOP VALVES WITH DEEP ESCUTCHEON PLATES. POWERS HYDRO GUARD LFLM495 OR EQUIVALENT	2"	1 1/2"	1/2"	1/2"
SH-1	SHOWER SYSTEM	SHOWER BALANCING VLAVE	WILLOUGHBY MODEL WRS-FA OR EQUIVALENT PRESSURE BALANCING VALVE, 2.5 GPM, UNIVERSAL BALL JOUNT SHOWER HEAD, RECESSED MOUNTED SOAP DISH POWERS BILTMORE 902G OR EQUIVALENT	2"	2"	1/2"	1/2"
SH-2	SHOWER SYSTEM ADA COMPLIANT	SHOWER	WILLOUGBY WRS-FA-ADA-WH OR EQUIVALENT PRESSURE BALANCING MIXING VALVE, DIVERTER VALVE, 2.5 GPM, UNIVERSAL BALL JOINT SHOWER HEAD, DUAL FIXED SHOWER HEADS, RECESSED MOUNTED SOAP DISH	2"	2"	1/2"	1/2"
TD-1	TRENCH DRAIN SHOWERS	DRAIN	JOSAM PRO-PLUS TRENCH DRAIN OR EQUIVALENT HDP GRATE ADA/HP COMPLIAND LOAD CLASS A. SEE PLANS FOR LENGTHS.	2"	2"		
(H)WC-1	WALL HUNG WATER CLOSET	FIXTURE FLUSH VALVE	AMERICAN STANDARD ELONGATED FLUSHOMETER MODEL 3351.101 OR EQUIVALENT ELONGATED BOWL WITH 1.5" TOP SPUD, VITREOUS CHINA, 1.6 GPF, ADA COMPLINANT EXTRA HEAVEY OPEN FROM SEAT ZURN SENOSR OPERATED BATTERY POWERED - MODEL ZER6000AV BATTERY POWERED AUTOMATIC SENSOR WITH MANUAL OVERIDE PUSH BUTTON	4"	2"		1"
WC-2	FLOOR MOUNTED CLOSET	FIXTURE FLUSH VALVE	AMERICAN STANDARD BABY DEVORO - MODLE 2282.001 OR EQUIVALENT 1.0" TOP SPUD, VITREOUS CHINA, 1.6 GPF, ADA COMPLINANT. ELONGATED BOWL, BABY DEVORO SEAT OPEN FRONT. ZURN SENOSR OPERATED BATTERY POWERED - MODEL ZER6000AV BATTERY POWERED AUTOMATIC SENSOR WITH MANUAL OVERIDE PUSH BUTTON	4"	2"		1"
WB-1	WALL BOX GAS SHUT OFF	BOX	AB&A IPS CORPORATION MODEL 67920 OR EQUIVALENT 16 GAUGE STAINLESS STELL, ONCE PIECE FRAME, FULL LENGTH HINGE, SCREW DRIVER LOCK	2"	2"	1/2"	1/2"
WB-2	WALL BOX ICE MAKER	BOX	GUY GRAY MODEL 88133 OR EQUIVALENT RECESSED, WHITE POWDER COATED ICE MAKER OUTLET BOX WITH BRASS QUARTER TURN VLAVE	2"	2"	1/2"	1/2"
WB-3	WALL BOX WHIRLPOOL/WAHSER	BOX	GUY GRAY MODEL 82158 OR EQUIVALENT 20 GUGE BOX WITH KNOCK OUT ON TOP, BOTTOM AND SIDES, WHITE POWER COAD ON COLD ROLLED STEEL FINISH, SLIPNUT DRAIN KIT WITH 1/4 TURN VALVES AND ARRESTERS	2"	2"	1/2"	1/2"
WF-1	WASHFOUNTAIN CLASSROOM	SYSTEM	BRADLEY MF2944 OR EQUIVALENT MOUNTING HEIGHT TO BE JUVENILE HEIGHT, BATTERY INFRARED ACTIVATION, NO SOAP DISPENSER, NAVIGATOR TMA OR EQUIVALENT, COLOR TO BE DETERMINED AT SHOP DRAWINGS - PROVIDE COLOR CHART IN SUBMITTAL	2"	1 1/2"	1/2"	1/2"

REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS OR MOUNT AT MANUFACTURERS RECOMMENDED HEIGHTS.
PLUMBING SCHEDULE NOTES:
1) MINIMUM SIZE OF UNDER SLAB VENT SHALL BE 2".
2) ALL HANDICAPPED LAVATORIES S-1 & S-2 SHALL BE INSTALLED WITH P-TRAP AND SUPPLY INSULATION. PROVIDE TRUEBRO MODEL #102 OR EQUAL WITH P-TRAP INSULATION, HOT AND COLD WATER ANGLE VALVE AND SUPPLY INSULATION FABRICATED FROM CLOSED CELL VINYL, 3/16" WALL THICKNESS, "K" VALUE OF 1.17 (BTU*INHR*FT^2*DEG F).
3) CONTRACTOR SHALL VERIFY ALL WALL THICKNESS AND SHALL ORDER APPROPRIATE OPERATING ROD ASSEMBLY.
4) SUPPLY STOPS MAY BE ELIMINATED AT THE CONTRACTORS OPTION WHEN PLUMBING FIXTURE IS LOCATED IN A CABINET AND THE FIXTURE HAS SHUT-OFF VALVES TO ISOLATE THE FIXTURE FROM THE OTHER FIXTURES. ESCUTCHEONS MAY BE ELIMINATED WHERE THE SUPPLIES PENETRATE THE BOTTOM OF CASEWORK.

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2 7 - 8

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

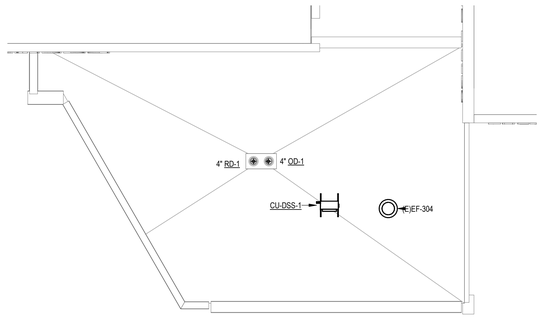
CE No.: 380-001-21

November 18, 2022

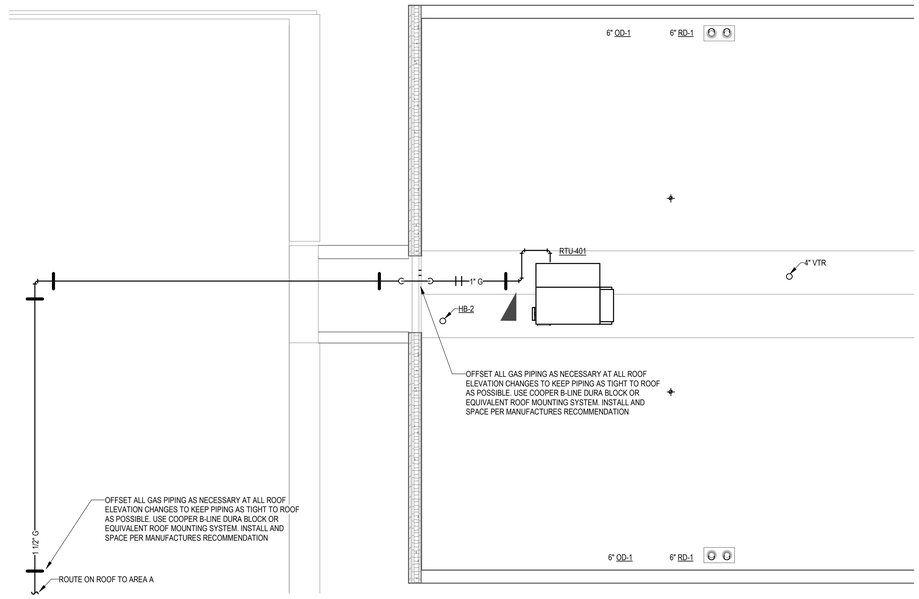
Plumbing Schedules

P4.01

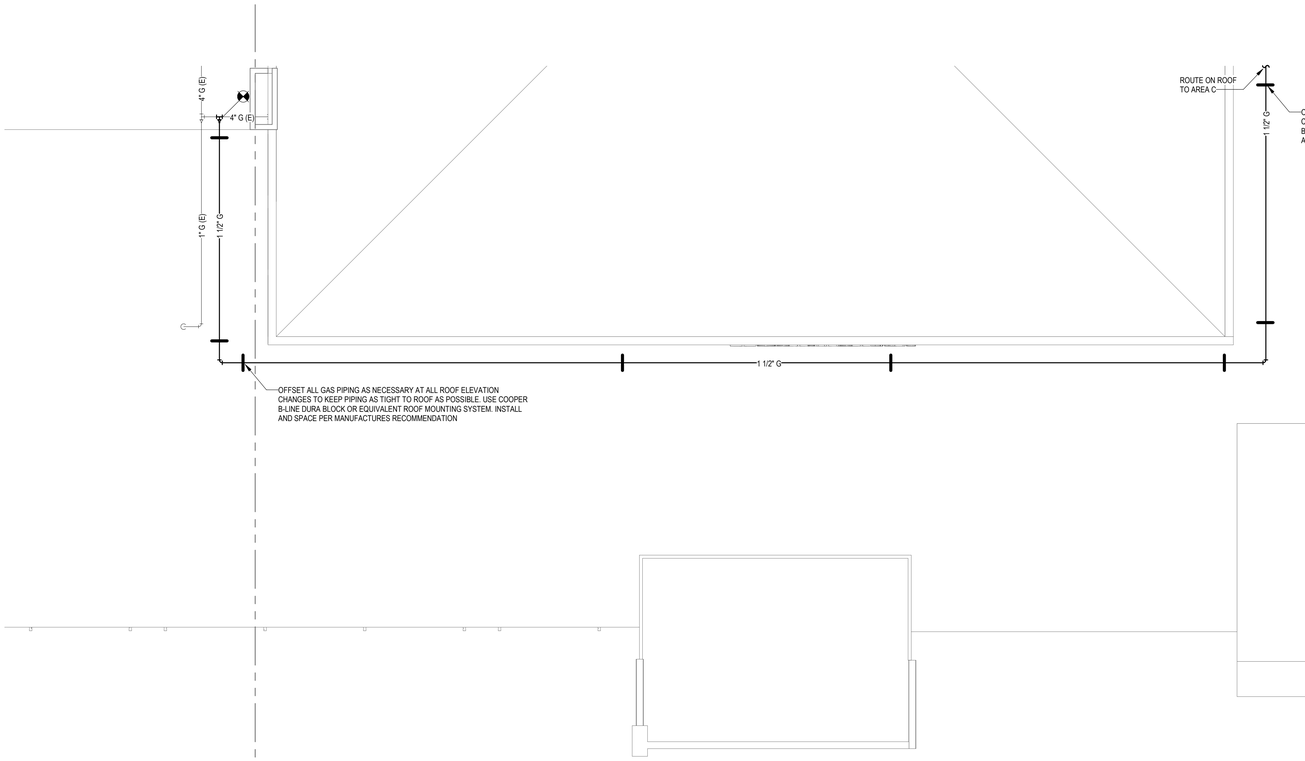
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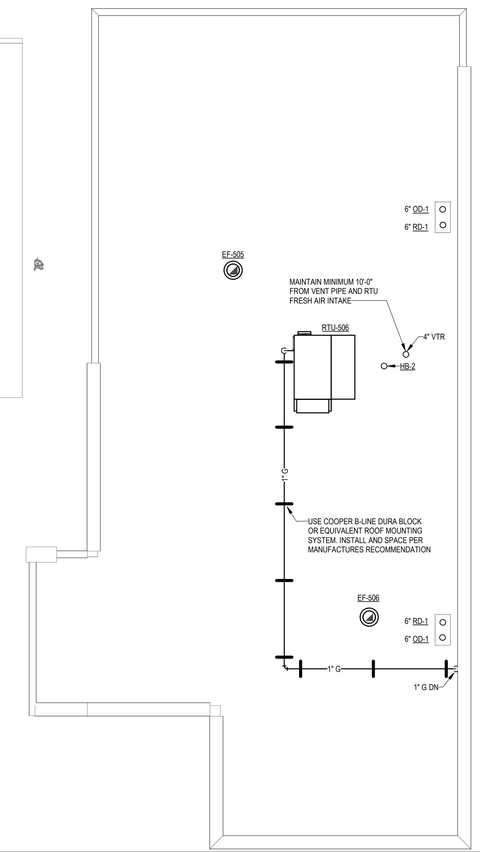
CONCESSIONS ENTRY
SCALE: 1/8" = 1'-0"



MECHANICAL ROOF - AREA B
SCALE: 1/8" = 1'-0"



MECHANICAL ROOF - AREA A
SCALE: 1/8" = 1'-0"



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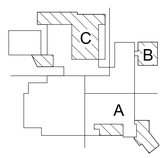
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ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

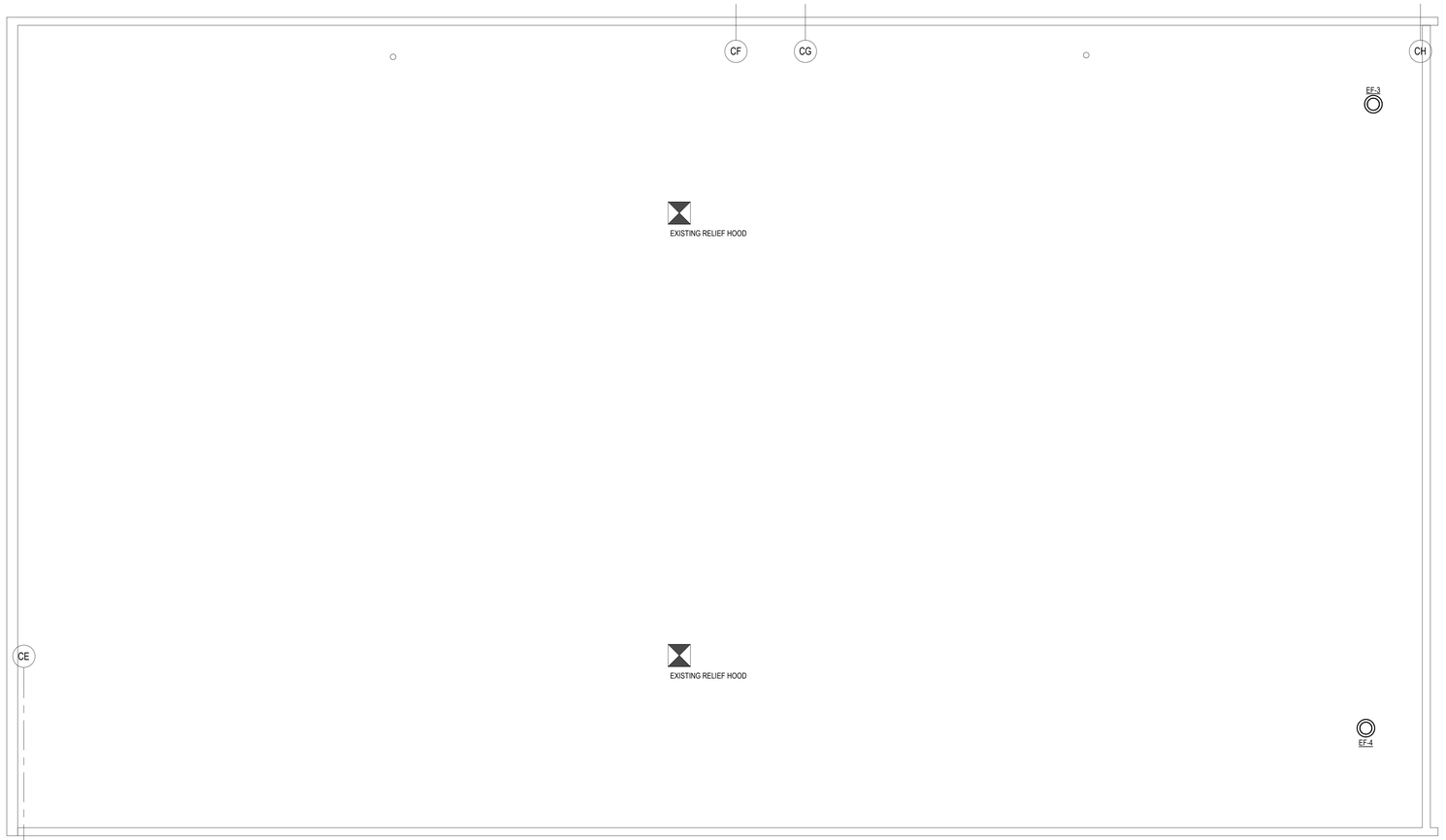
CE No.: 380-001-21

November 18, 2022

Mechanical Roof Plan

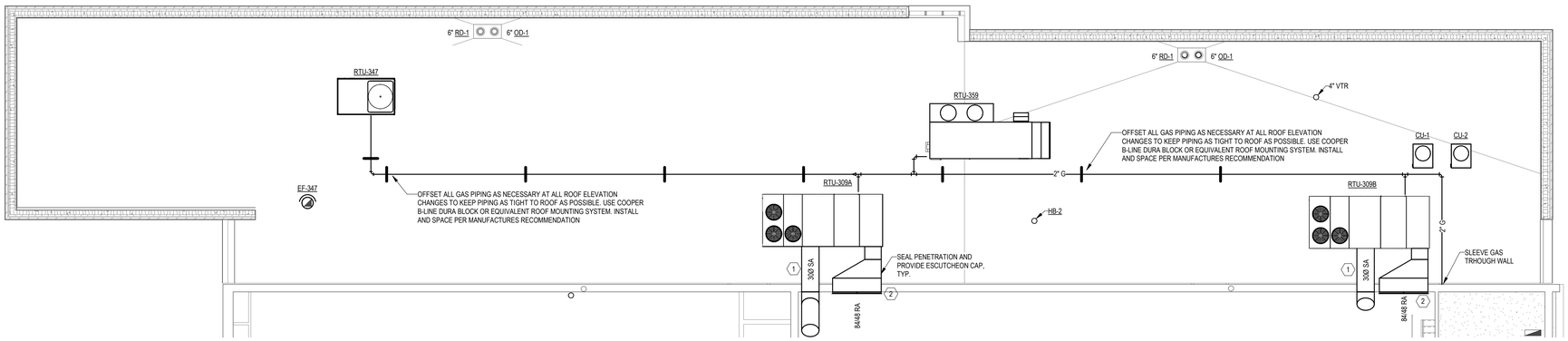
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File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001-HCSA-M21.rvt



MECHANICAL ROOM - GYM

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



LOCKER ROOM ROOF - AREA C

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

PLAN NOTES:

1. INSULATE ALL EXTERIOR DUCTWORK TO A MINIMUM R-12 WITH HARDBOARD INSULATION AND SELF REPAIRING EXTERIOR WEATHER PROOF WRAP.
2. COORDINATE OPENINGS THROUGHT WALL WITH STRUCTURAL SHEETS AND DETAILS.

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SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
A - 003	12/14/2022	Addendum #003

Heartland Community Schools Addition & Renovation

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Henderson, NE 68371

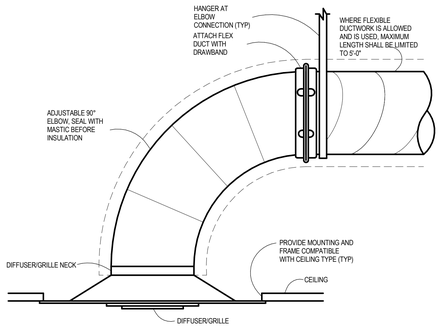
CE No.: 380-001-21

November 18, 2022

Mechanical Roof Plans

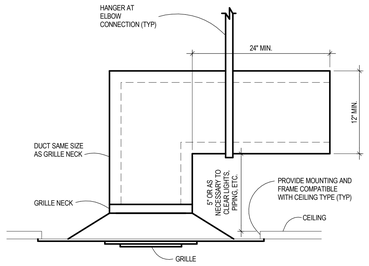
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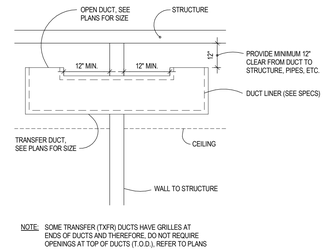
1 CEILING DIFFUSER/GRILLE CONNECTION DETAIL

NO SCALE



2 CEILING GRILLE AND SOUND BOOT DETAIL

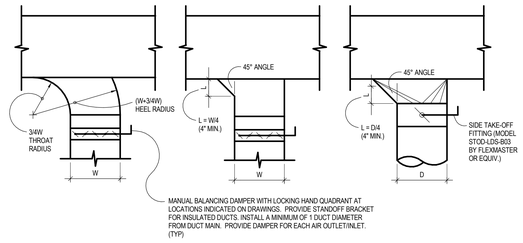
NO SCALE



NOTE: SOME TRANSFER (TXFR) DUCTS HAVE GRILLES AT ENDS OF DUCTS AND THEREFORE, DO NOT REQUIRE OPENINGS AT TOP OF DUCTS (T.O.D.), REFER TO PLANS

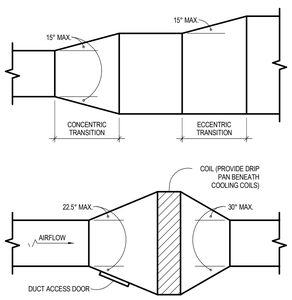
3 AIR TRANSFER DUCT DETAIL

NO SCALE



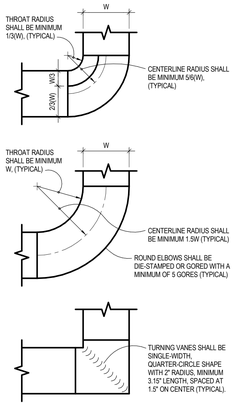
4 DUCT TAKE-OFF DETAILS

NO SCALE



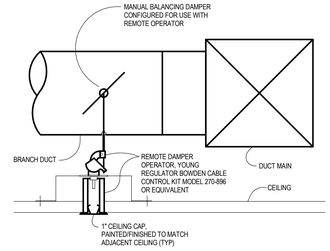
5 DUCT TRANSITION DETAILS

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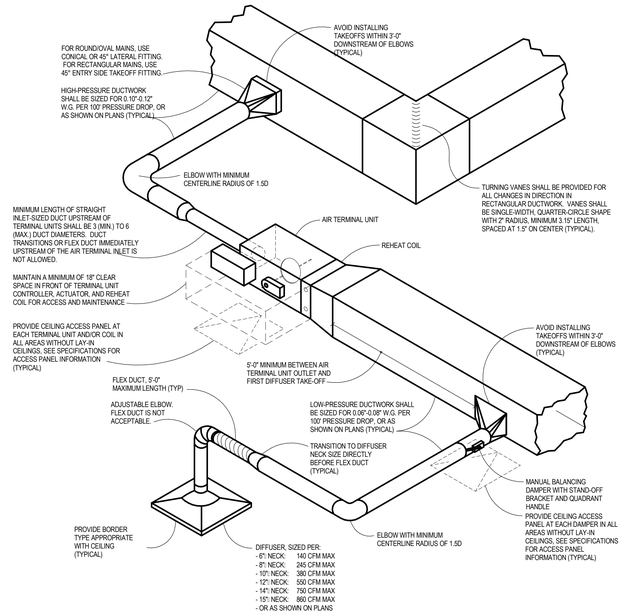
6 DUCT ELBOW DETAILS

NO SCALE



7 REMOTE DAMPER OPERATOR DETAIL

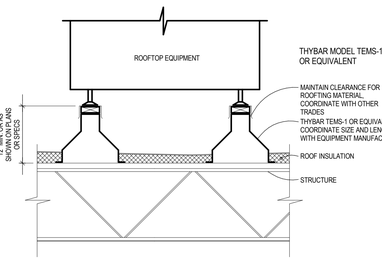
NO SCALE



SIMILAR FOR RETURN/EXHAUST AIR TERMINAL UNITS, BUT WITH TERMINAL UNIT INLET REVERSED.

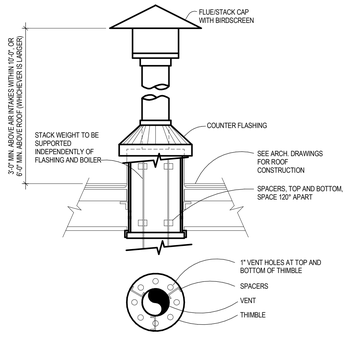
11 SUPPLY AIR TERMINAL UNIT AND ROOM DISTRIBUTION DETAIL

NO SCALE



8 ROOF EQUIPMENT SUPPORT RAIL DETAIL

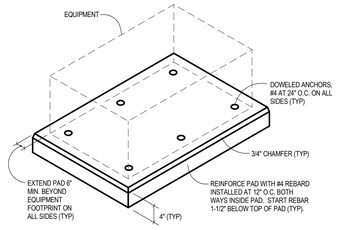
NO SCALE



NOTE: STACK WEIGHT TO BE SUPPORTED INDEPENDENTLY OF FLASHING AND HEATING APPLIANCE.

9 BOILER FLUE VENT STACK TERMINATION DETAIL

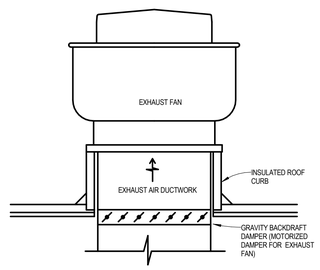
NO SCALE



NOTES:
1. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE PROVIDED WITH AN EQUIPMENT PAD
2. FLOOR UNDER BASE/PAD SHALL BE ROUGHENED AND BASE SHALL BE DOWELLED TO FLOOR. ADJUST BASE SIZE AS REQUIRED FOR INDIVIDUAL EQUIPMENT INSTALLED.
3. ALL EQUIPMENT PADS THAT SUPPORT BOTH EQUIPMENT AND INERTIA BASES SHALL BE REINFORCED WITH #5 REBAR INSTALLED AT 12" O.C. BOTH WAYS INSIDE PAD.

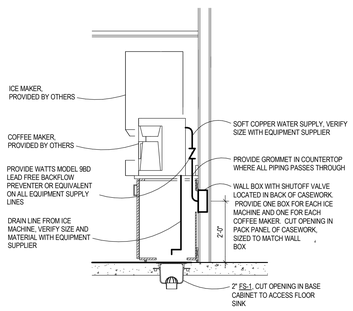
10 EQUIPMENT PAD DETAIL

NO SCALE



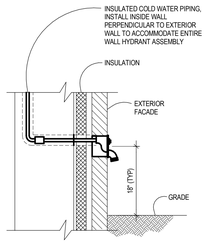
12 ROOF MOUNTED EXHAUST FAN DETAIL

NO SCALE



13 ICE MAKER/COFFEE MAKER PIPING DETAIL

NO SCALE



14 WALL HYDRANT DETAIL

NO SCALE

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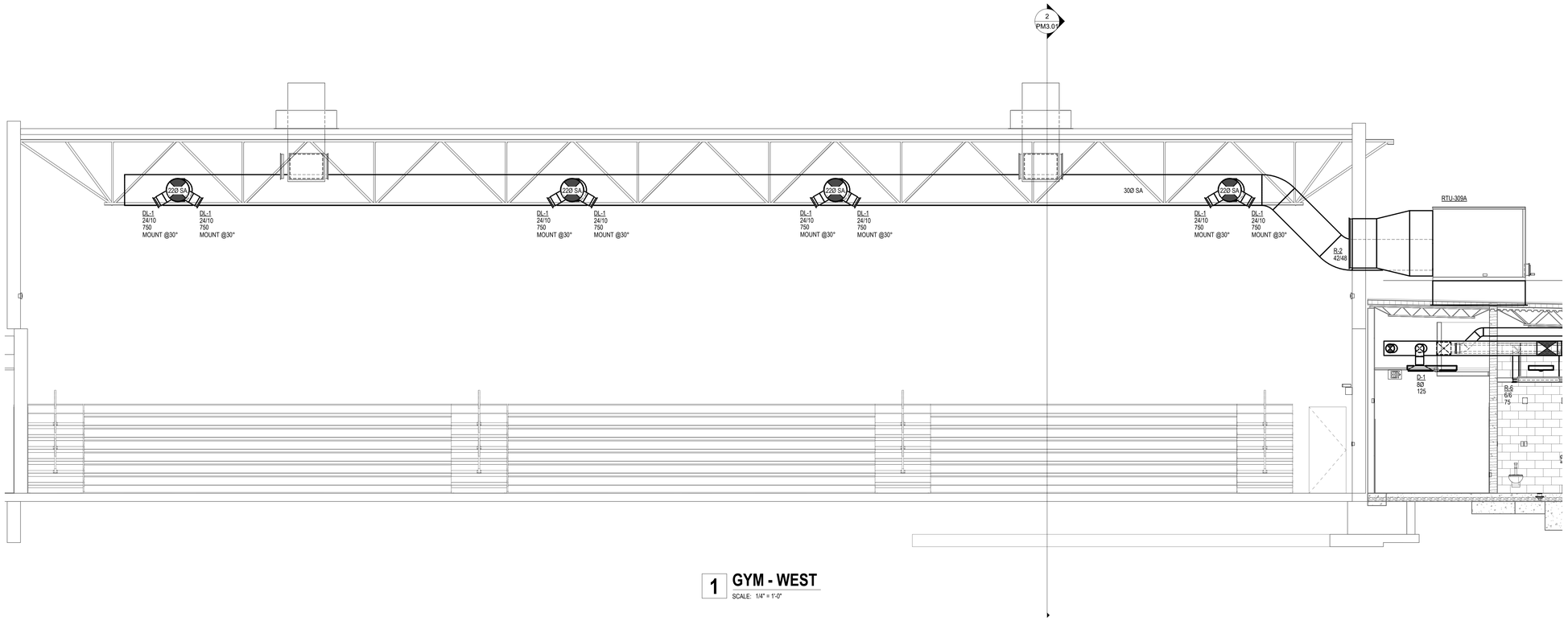
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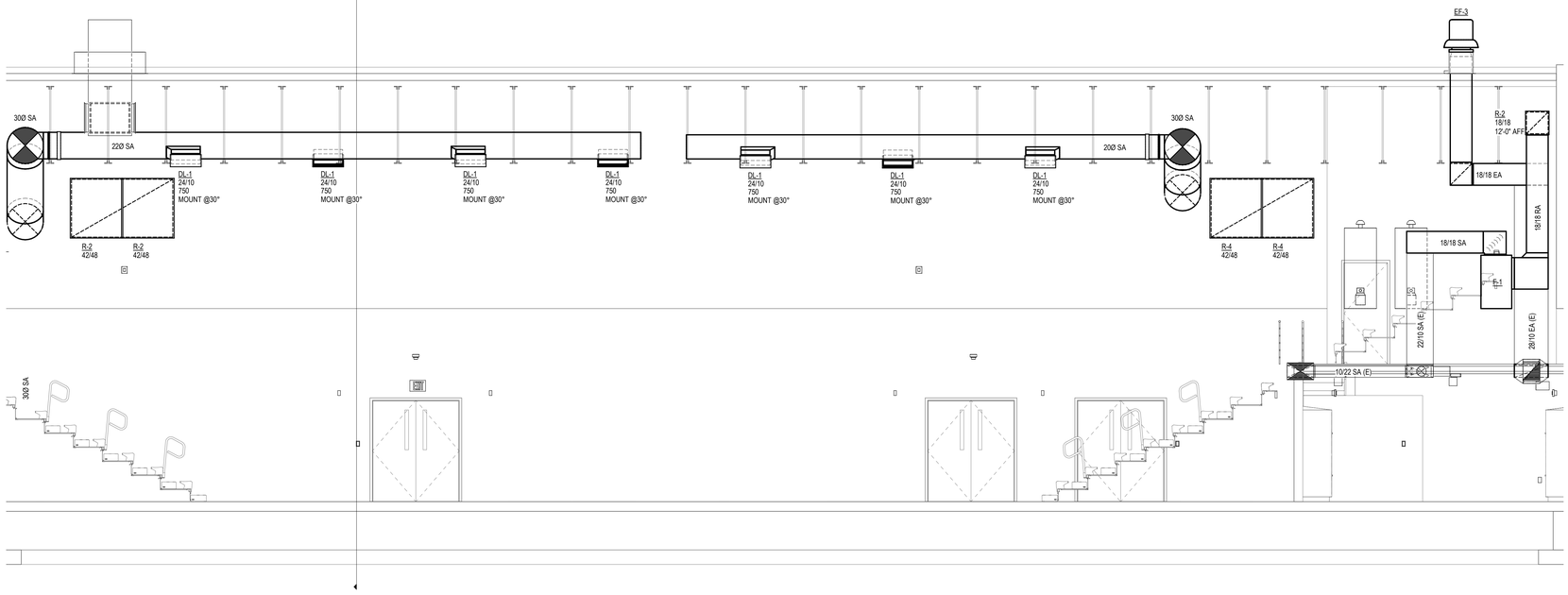
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PM2.01

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1 GYM - WEST
SCALE: 1/4" = 1'-0"



2 GYM - NORTH
SCALE: 1/4" = 1'-0"

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Heartland Community Schools Addition & Renovation

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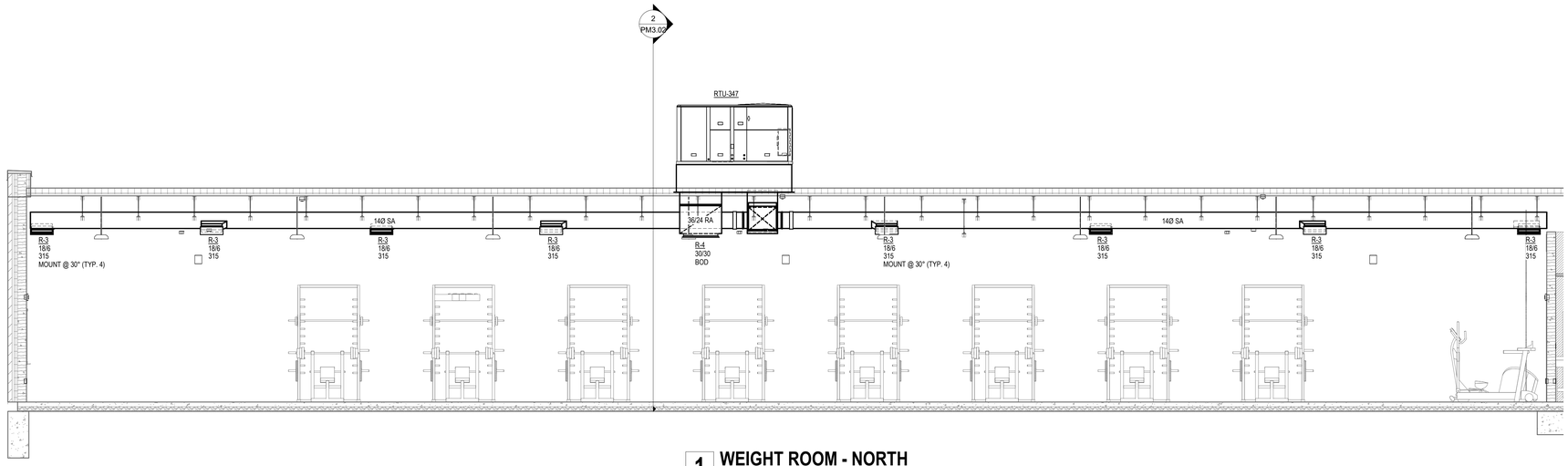
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November 18, 2022

Mechanical Sections

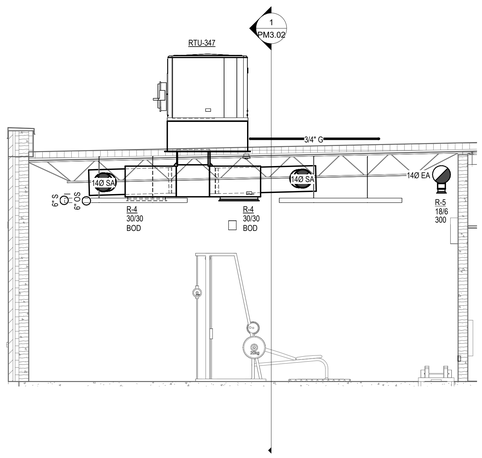
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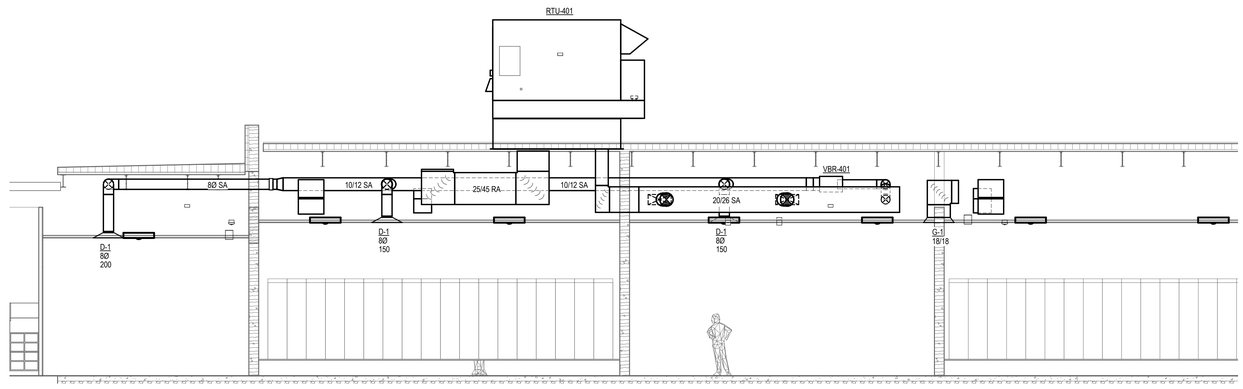
1 WEIGHT ROOM - NORTH

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



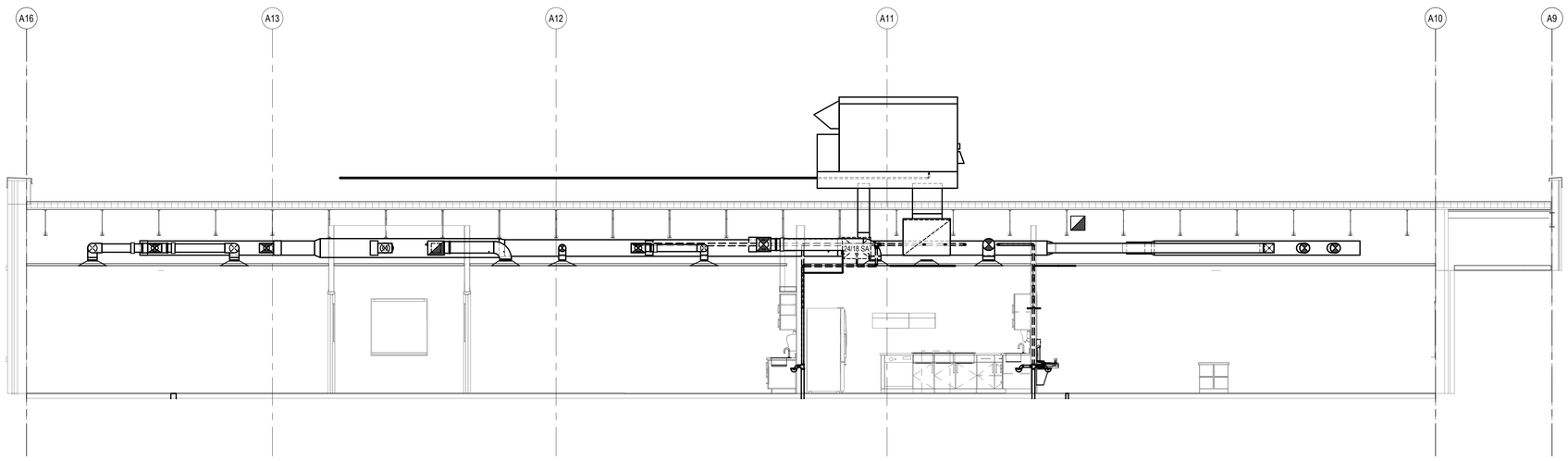
2 WEIGHT ROOM - EAST

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



3 CORRIDOR 401 - NORTH

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



4 DAYCARE TODDLER 506 - NORTH

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

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Heartland Community Schools Addition & Renovation

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Mechanical Sections

PM3.02

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ELECTRICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
C	SUBSCRIPT 'C' ADJACENT TO ANY DEVICE INDICATES CEILING.
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
E	SUBSCRIPT 'E' ADJACENT TO ANY DEVICE INDICATES EXISTING.
(ER)	SUBSCRIPT (ER) ADJACENT TO ANY DEVICE INDICATES EXISTING TO BE RELOCATED.
EWC	ELECTRIC WATER COOLER
F	SUBSCRIPT 'F' ADJACENT TO ANY DEVICE INDICATES FLOOR.
GFI	GROUND FAULT INTERRUPTER. (PROTECTED DEVICE OR CIRCUIT BREAKER)
H	SUBSCRIPT 'H' DENOTES HOSPITAL GRADE
HOA	HAND-OFF-AUTO
NF	NON-FUSED
NIC	NOT IN CONTRACT
OHE	OVERHEAD ELECTRICAL
OHT	OVERHEAD TELEPHONE
PVC	POLYVINYL CHLORIDE
(R)	SUBSCRIPT (R) ADJACENT TO ANY DEVICE INDICATES THE RELOCATED POSITION OF AN EXISTING DEVICE.
RGS	RIGID GALVANIZED STEEL
TR	TAMPER RESISTANT
UGE	UNDERGROUND ELECTRICAL
UGT	UNDERGROUND TELEPHONE
WG	WIRE GUARD
WP	WEATHERPROOF
	CROSS-HATCHING/ DASHING INDICATES REMOVAL

LIGHTING

A, A1	POLE MOUNTED EXTERIOR LIGHT FIXTURE. LETTER INDICATES FIXTURE AND POLE TYPE.
B	2' X 4' TROFFER RECESSED IN GRID, GWB OR PLASTER CEILING. LETTER/NUMBER DENOTES FIXTURE TYPE.
B1	2' X 4' TROFFER RECESSED IN GRID, GWB OR PLASTER CEILING, WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
C	1' X 4' TROFFER RECESSED IN GRID, GWB OR PLASTER CEILING. LETTER/NUMBER DENOTES FIXTURE TYPE.
C1	1' X 4' TROFFER RECESSED IN GRID, GWB OR PLASTER CEILING, WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
D	2' X 2' TROFFER. LETTERNUMBER DENOTES FIXTURE TYPE.
D1	2' X 2' TROFFER WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE.
F	2' X 4' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
F1	2' X 4' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT . LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
G	SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
G1	SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
H	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
H1	2' X 2' SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
K	WALL MOUNTED FIXTURE. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
K1	WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER/NUMBER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
L	STRIP FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
L1	STRIP FIXTURE WITH EMERGENCY BATTERY BATTERY BACK-UP. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
N	RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND MOUNTING HEIGHT.
N1	RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING DETAILS AND HEIGHT.
P	WALL MOUNTED FIXTURE. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.
P1	WALL MOUNTED FIXTURE WITH EMERGENCY BATTERY BACK-UP AND/OR ON EMERGENCY/NIGHT LIGHTING CIRCUIT. LETTER DENOTES FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT.
	BATTERY POWERED EMERGENCY LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE ON DRAWINGS FOR FIXTURE TYPE. REFER TO DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
	WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. REFER TO DRAWINGS FOR MOUNTING HEIGHT. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)
	CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. REFER TO FIXTURE SCHEDULE FOR FIXTURE TYPE. (DARKENED PORTION OF FIXTURE INDICATES ILLUMINATED FACES.)

ELECTRICAL DISTRIBUTION

S	SINGLE POLE SWITCH
S_3	THREE WAY SWITCH
S_D	THREE WAY DIMMER SWITCH
S_4	FOUR WAY SWITCH
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT
S_D	DIMMER SWITCH
S_{MC}	MOMENTARY CONTACT SWITCH
S_{TE}	THERMAL ELEMENT SWITCH
S_K	KEYED SWITCH
S_O	LINE VOLTAGE OCCUPANCY SENSING SWITCH (SEE SPECIFICATION)
S_X	SPST EXPLOSION PROOF SWITCH
S_{2X}	DPST EXPLOSION PROOF SWITCH
	180° CEILING MOUNT OCCUPANCY SENSOR. THE UNSHADED AREA INDICATES AIMING DIRECTION. SEE THE SPECIFICATION FOR TECHNOLOGY TYPE, MANUFACTURER AND CATALOG NUMBER.
	360° CEILING MOUNT OCCUPANCY SENSOR. THE UNSHADED AREA INDICATES AIMING DIRECTION. SEE THE SPECIFICATION FOR TECHNOLOGY TYPE, MANUFACTURER AND CATALOG NUMBER.
	20A, 125V DOUBLE DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V SIMPLEX OUTLET (NEMA 5 - 20R)
	20A, 125V RED DUPLEX CONVENIENCE OUTLET ON EMERGENCY SYSTEM (NEMA 5 - 20R)
CU, F	20A, 125V DUPLEX CONVENIENCE OUTLET - CEILING AND FLOOR MOUNTED (NEMA 5 - 20R)
I	SPECIAL PURPOSE OUTLET, TYPE AS NOTED ON DRAWINGS.
	20A, 125V SAFETY DUPLEX CONVENIENCE OUTLET (NEMA 5- 20R)
	PLUG-IN RECEPTACLE STRIP. TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION.
	PLUG-IN RECEPTACLE STRIP (RED OUTLETS ON EMERGENCY SYSTEM). TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPEC.
	PIGTAIL DENOTES CONNECTION TO EQUIPMENT
J, J1, J2	JUNCTION BOX - CEILING, FLOOR, AND WALL MOUNTING
	FLOOR BOX
	2 GANG TELECOMMUNICATIONS OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18"AFF UNLESS OTHERWISE NOTED. STUB (1) 1" CONDUIT ABOVE THE ACCESSIBLE CEILING. BUSH CONDUIT END. ADJACENT NUMBER INDICATES NUMBER OF CAT 6 CABLES AND JACKS. ROUTE CABLES BACK TO THE NEAREST DATA RACK FOR CONNECTION. TERMINATE AND TEST CABLES. ROUTE CABLES VIA J-HOOKS MOUNTED PER MANUFACTURERS SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WAP	WIRELESS ACCESS POINT. IN THIS LOCATION, COIL 15' OF CABLE ABOVE THE ACCESSIBLE CEILING FOR CONNECTION TO OWNER PROVIDED WIRELESS ROUTER. ROUTE CABLES BACK TO THE NEAREST DATA RACK FOR CONNECTION. TERMINATE AND TEST CABLES. ROUTE CABLES VIA J-HOOKS MOUNTED PER MANUFACTURERS SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	BRANCH CIRCUIT HOMERUN TO PANEL (NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES) (NUMBER 12AWG, MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3- NUMBER 12 AWG IN 1/2" CONDUIT.
	CONDUIT AND WIRE CONCEALED. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES (NUMBER 12AWG MIN, UNLESS OTHERWISE NOTED) IF NO TICK MARKS ARE SHOWN, ASSUME 3-NUMBER 12 IN 1/2" CONDUIT.
	CONDUIT RISER UP

ELECTRICAL DISTRIBUTION EQUIPMENT

	LIGHTING AND APPLIANCE PANEL
	(LIGHTING) RELAY PANEL
	MOTOR CONTROL CENTER OR SWITCHBOARD
	POWER PANEL (DISTRIBUTION)
T	TRANSFORMER
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	AUTOMATIC TRANSFER SWITCH
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	GROUND
G	ENGINE GENERATOR
RGA	REMOTE GENERATOR ANNUNCIATOR
M	METER
PNL #	PANELBOARD TAG. SEE THE CORRESPONDING PANELBOARD SCHEDULE AND/OR ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

FIRE ALARM

F	FIRE ALARM MANUAL PULL STATION
F 15/75	FIRE ALARM SPEAKER/STROBE UNIT (15/75 CD)
F 75	FIRE ALARM SPEAKER/STROBE UNIT (75 CD)
F 110	FIRE ALARM SPEAKER/STROBE UNIT (110 CD)
F	FIRE ALARM HORN
F 15/75	FIRE ALARM HORN/STROBE UNIT (15/75 CD)
F 75	FIRE ALARM HORN/STROBE UNIT (75 CD)
F 110	FIRE ALARM HORN/STROBE UNIT (110 CD)
F	FIRE ALARM COMBINATION BELL AND FLASHING LIGHT
F 15/75	FIRE ALARM FLASHING STROBE LIGHT (15/75 CD)
F 75	FIRE ALARM FLASHING STROBE LIGHT (75 CD)
F 110	FIRE ALARM FLASHING STROBE LIGHT (110 CD)
F	FIRE ALARM BELL
F	MAGNETIC DOOR HOLD OPEN DEVICE
F X	POST SUPERVISORY VALVE CONTACTS
F X	SUPERVISORY VALVE CONTACTS
FS	WATER FLOW SWITCH
TS	TAMPER SWITCH
	SMOKE DETECTOR
H	HEAT DETECTOR - COMBO RATE OF RISE AND FIXED TEMPERATURE
D	DUCT SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL

MOTOR CONTROL & MOTOR CONTROL EQUIPMENT

M	MOTOR - HORSEPOWER AS INDICATED ON DRAWINGS
	FUSED DISCONNECT SWITCH. ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	FUSED DISCONNECT SWITCH, FUSE SIZE AS NOTED ON DRAWINGS, ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND NON-FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	COMBINATION MOTOR STARTER/DISCONNECT PROVIDED BY OTHERS.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH, ASSUME NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED.
	START/STOP PUSH BUTTON
	3 POSITION PUSH BUTTON
	PUSH BUTTON

SPECIAL SYSTEMS

C	CLOCK AND CLOCK HANGER OUTLET
E C	ELAPSED TIME INDICATOR CLOCK
CMC	CLOCK MASTER CONTROL
CS	CLOCK SYSTEM SIGNAL GENERATOR
	CCTV CAMERA
CC	CCTV CAMERA OUTLET
CM	CCTV MONITOR AND OUTLET
VC	VIDEO CONFERENCING OUTLET
CM	CCTV MONITOR OUTLET
TV	2 GANG TV OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
S	INTERCOM/PUBLIC ADDRESS SPEAKER - SURFACE MOUNTED
S	INTERCOM/PUBLIC ADDRESS SPEAKER - WALL MOUNTED
S	INTERCOM/PUBLIC ADDRESS SPEAKER - RECESSED
P	PUBLIC ADDRESS TRUMPET
V	VOLUME CONTROL FOR SPEAKER
SDR	SOUND DISTRIBUTION RACK
M	MICROPHONE
CR	SECURITY SYSTEM CARD READER AND OUTLET BOX
EL	ELECTRIC DOOR LOCK
DM	DOOR MONITOR SWITCH
SSA	SECURITY SYSTEM ANNUNCIATOR
IC H	INTERCOM MASTER - WALL WITH HANDSET
IC H	INTERCOM MASTER - DESK WITH HANDSET
IC	INTERCOM PUSHBUTTON STATION

PROJECT GENERAL ELECTRICAL NOTES

GENERAL DEMOLITION NOTES:

1. ALL OF THE DEVICES SHOWN ON THE DEMOLITION PLANS ARE EXISTING. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.

2. THE CONTRACTOR MUST FIELD VERIFY EXISTING CIRCUITING PRIOR TO COMMENCING ANY WORK. ALL BIDS MUST INCORPORATE THIS REQUIREMENT.

3. DEVICES SHOWN DASHED, WITH CROSS HATCHING, AND/OR SO NOTED SHALL BE REMOVED. ALL OTHER DEVICES SHALL BE RELOCATED, SHALL REMAIN, OR SHALL BE ABANDONED AS SHOWN, OR AS FOLLOWS:
DEVICES SHALL BE COMPLETELY REMOVED FROM WALLS THAT ARE ALSO SHOWN TO BE REMOVED. DEVICES SHOWN TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. FLUSH TYPE DEVICES SHOWN TO BE REMOVED ON CONCRETE OR BRICK TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE DEVICES REMOVED AND BOXES PROVIDED WITH BLANK COVER PLATES.

4. CONDUITS SHALL BE COMPLETELY REMOVED FROM WALLS THAT ARE ALSO SHOWN TO BE REMOVED. CONCEALED CONDUITS MAY BE ABANDONED IN WALLS THAT ARE TO REMAIN. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE REMOVED.

5. THE CONDUCTORS FOR DEVICES SHOWN TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED BACK TO THE PANEL OR BACK TO THE NEXT DEVICE SHOWN TO REMAIN OR AS REQUIRED BY ACTUAL CIRCUITING. ACTUAL CIRCUITING MUST BE DETERMINED IN THE FIELD. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AS A RESULT OF EXISTING CIRCUITING. CONTINUITY OF CIRCUITING SHALL BE MAINTAINED FOR ALL EXISTING CIRCUITS AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRE, CONDUIT, DEVICES AND CONNECTIONS TO ENSURE CIRCUIT CONTINUITY TO ALL NEW AND EXISTING EQUIPMENT.

6. REFER TO ARCHITECTURAL DRAWINGS FOR WALL REMOVAL AND WALL TYPE.

7. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

8. THE OWNER WILL OCCUPY PORTIONS OF THE FACILITY THROUGHOUT CONSTRUCTION. ELECTRICAL SYSTEMS TO OCCUPIED PORTIONS OF THE FACILITY MUST REMAIN IN OPERATION. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE OWNER, AND MUST PROVIDE ALL NECESSARY DEVICES, EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE PHASING AND OWNER OCCUPANCY REQUIREMENTS ARE SATISFIED. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ISSUES AND CHANGES WHICH OCCUR AS A RESULT OF PHASING AND OWNER OCCUPANCY REQUIREMENTS.

GENERAL LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.

2. COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH ALL OTHER TRADES.

3. COORDINATE THE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH ACTUAL CEILING TYPES. REFER TO ARCHITECTURAL FINISH SCHEDULES FOR ADDITIONAL DETAILS.

4. SUPPORT ALL RECESSED AND PENDANT MOUNTED FIXTURES FROM STRUCTURE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS. SUSPENDED CEILING MOUNTING SYSTEMS SHALL NOT BE USED TO SUPPORT FIXTURES OR RACEWAYS.

5. ROUTE ALL WIRE AND CONDUIT CONCEALED UNLESS OTHERWISE NOTED. PATCH ALL EXISTING SURFACES AFTER WIRE AND CONDUIT INSTALLATION, AS REQUIRED. REFER TO THE SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS. ALL COSTS ASSOCIATED WITH ABOVE REQUIREMENTS MUST BE INCLUDED IN THE PROJECT BID.

6. FLUSH MOUNT ALL NEW WIRING DEVICES IN NEW OR EXISTING SURFACES, THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

7. IN ROOMS WHERE NO FIXTURES ARE SHOWN, THE EXISTING LIGHTING LAYOUT AND CIRCUITING TO REMAIN.

8. LOCATE PHOTOCELL DEVICES FOR CONTROL OF EXTERIOR LIGHTING FIXTURES, ON THE ROOF AT A LOCATION WHICH CANNOT BE SEEN FROM GRADE LEVEL. PROVIDE WP DEVICES AND BOXES.

9. A DEDICATED NEUTRAL CONDUCTOR IS REQUIRED FOR ALL DIMMABLE CIRCUITS.

10. BOX AROUND RECESSED LIGHTING FIXTURES AS REQUIRED SO THAT ALL CODE REQUIRED CLEARANCES BETWEEN COMBUSTIBLE MATERIALS, THERMAL INSULATION, ETC AND LIGHTING FIXTURES ARE MAINTAINED. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.

11. PROVIDE ENCLOSURES OVER RECESSED LIGHTING FIXTURES INSTALLED IN RATED CEILINGS SO ALL CODE REQUIRED RATINGS ARE MAINTAINED. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND RATINGS. FULLY COORDINATE ALL REQUIREMENTS WITH THE GENERAL CONTRACTOR.

12. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

13. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

14. ALL LIGHT FIXTURES SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GENERAL POWER & AUXILIARY SYSTEMS NOTES:

1. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES.

2. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUIT IS TO BE ROUTED CONCEALED. FULLY COORDINATE INSTALLATION WITH EXISTING CONDITIONS, AND INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.

3. FULLY COORDINATE THE LOCATION OF ALL HVAC EQUIPMENT WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE ALL DEVICES (I.E. STARTERS, SWITCHES, CONTACTS, ETC.) REQUIRED TO ENSURE SATISFACTORY OPERATION OF ALL SYSTEMS AND EQUIPMENT. (CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR.) COORDINATE DEVICE REQUIREMENTS WITH ACTUAL EQUIPMENT.

4. FOR ALL HVAC CONTROL DEVICES PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL NECESSARY AUXILIARY COMPONENTS AND CONTACTS TO ENSURE PROPER SYSTEM CONTROL FUNCTIONS. FULLY COORDINATE ALL REQUIREMENTS WITH THE MECHANICAL AND CONTROLS CONTRACTORS.

5. MANY OF THE CIRCUITS SHOWN ARE PROVIDED WITH DEDICATED NEUTRAL AND GROUND CONDUCTORS, TO SERVE COMPUTER EQUIPMENT LOADS. CAREFULLY REVIEW CIRCUITING TICK MARKS, AND PROVIDE ALL NECESSARY CONDUCTORS.

6. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

NEW FIRE ALARM SYSTEM NOTES:

1. PROVIDE A NEW CODE COMPLIANT FIRE ALARM SYSTEM. REFER TO THE ELECTRICAL POWER AND AUXILIARY SYSTEMS PLAN AND THE SPECIFICATION FOR ADDITIONAL DETAILS. PROVIDE ALL NECESSARY NEW EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE A COMPLETE, CODE COMPLIANT FIRE ALARM SYSTEM INSTALLATION.

2. INSTALL ALL FIRE ALARM SYSTEM WORK IN CONDUIT.

3. FULLY COORDINATE ALL FIRE ALARM SYSTEM DETAILS WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE NECESSARY CONNECTIONS TO AIR HANDLING UNIT CONTROLS TO ALLOW FOR SHUTDOWN OF APPROPRIATE AIR HANDLING EQUIPMENT UPON ALARM CONDITIONS.

4. PROVIDE ALL NECESSARY DUCT SMOKE DETECTORS AS REQUIRED. PROVIDE ALL NECESSARY CONNECTIONS AND POWER SUPPLY CIRCUITS (FED FROM THE NEAREST PANELBOARD OF APPROPRIATE VOLTAGE AND SOURCE) TO SMOKE DAMPERS AND SMOKE/FIRE DAMPERS SO THAT UPON FIRE ALARM CONDITIONS OR DUCT SMOKE DETECTOR ACTIVATION, THE DAMPERS CLOSE. COORDINATE DAMPER AND CONTROL LOCATIONS WITH THE MECHANICAL AND CONTROLS CONTRACTORS. REFER TO THE MECHANICAL DRAWINGS. ALL EXISTING DUCT SMOKE DETECTORS/ DAMPERS WILL NEED TO BE REPLACED WITH NEW EQUIPMENT.

5. PROVIDE A SMOKE DETECTOR AS REQUIRED BY CODE AT EACH FIRE ALARM CONTROL PANEL, TRANSPONDER AND POWER SUPPLY.

6. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE AND/OR SMOKE RATED WALLS, CEILINGS, AND FLOORS TO ENSURE THAT CODE REQUIRED RATINGS ARE MAINTAINED.

7. STUB 2-1" EMPTY CONDUITS, INTO CEILING SPACE ABOVE PANEL AND BUSH CONDUIT ENDS.

8. PROVIDE NECESSARY CONNECTIONS TO ELEVATOR EQUIPMENT TO ALLOW FOR CODE REQUIRED ELEVATOR RECALL FUNCTION. FULLY COORDINATE ALL REQUIREMENTS WITH THE ELEVATOR SUPPLIER/INSTALLER.

9. PROVIDE NECESSARY CONNECTIONS TO KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM. CONNECT SYSTEM TO NEAREST FIRE ALARM SYSTEM ZONE SUCH THAT WHEN SUPPRESSION SYSTEM IS ACTIVATED, AN APPROPRIATE ZONE FIRE ALARM LAMP IS LIGHTING AT THE CONTROL PANEL AND THE ANNUNCIATOR. FULLY COORDINATE SYSTEM LOCATION AND CONNECTION REQUIREMENTS WITH THE SUPPRESSION SYSTEM SUPPLIER/INSTALLER.

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SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
A - 2	12/07/2022	ADDENDUM #2

Heartland Community Schools Addition & Renovation

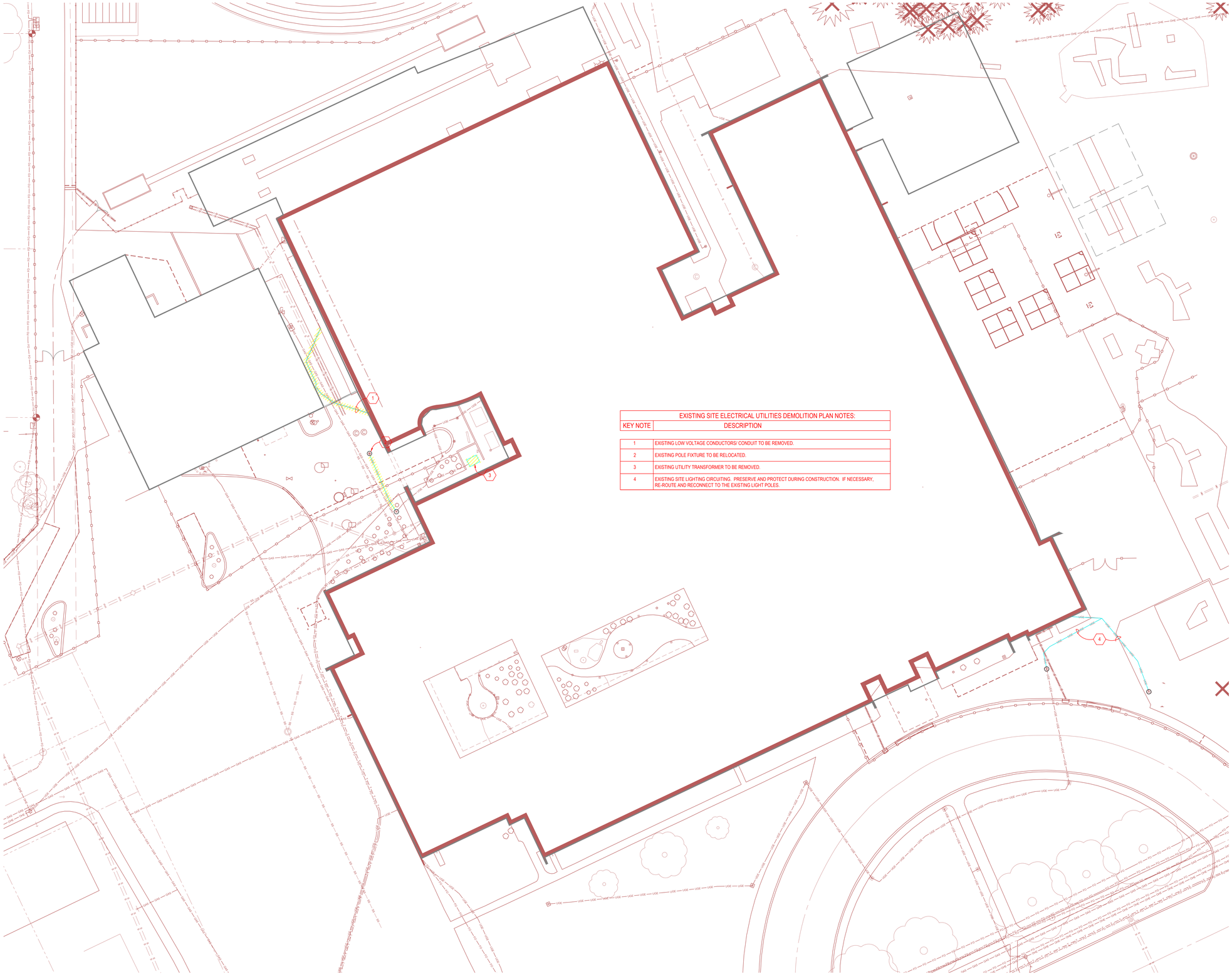
1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Electrical Abbreviations, Symbols Legend & General Notes

E0.00



EXISTING SITE ELECTRICAL UTILITIES DEMOLITION PLAN NOTES:	
KEY NOTE	DESCRIPTION
1	EXISTING LOW VOLTAGE CONDUCTORS/ CONDUIT TO BE REMOVED.
2	EXISTING POLE FIXTURE TO BE RELOCATED.
3	EXISTING UTILITY TRANSFORMER TO BE REMOVED.
4	EXISTING SITE LIGHTING CIRCUITING. PRESERVE AND PROTECT DURING CONSTRUCTION. IF NECESSARY, RE-ROUTE AND RECONNECT TO THE EXISTING LIGHT POLES.

EXISTING SITE ELECTRICAL UTILITIES DEMOLITION PLAN

SCALE: 1"=20'-0"

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Construction Documents

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

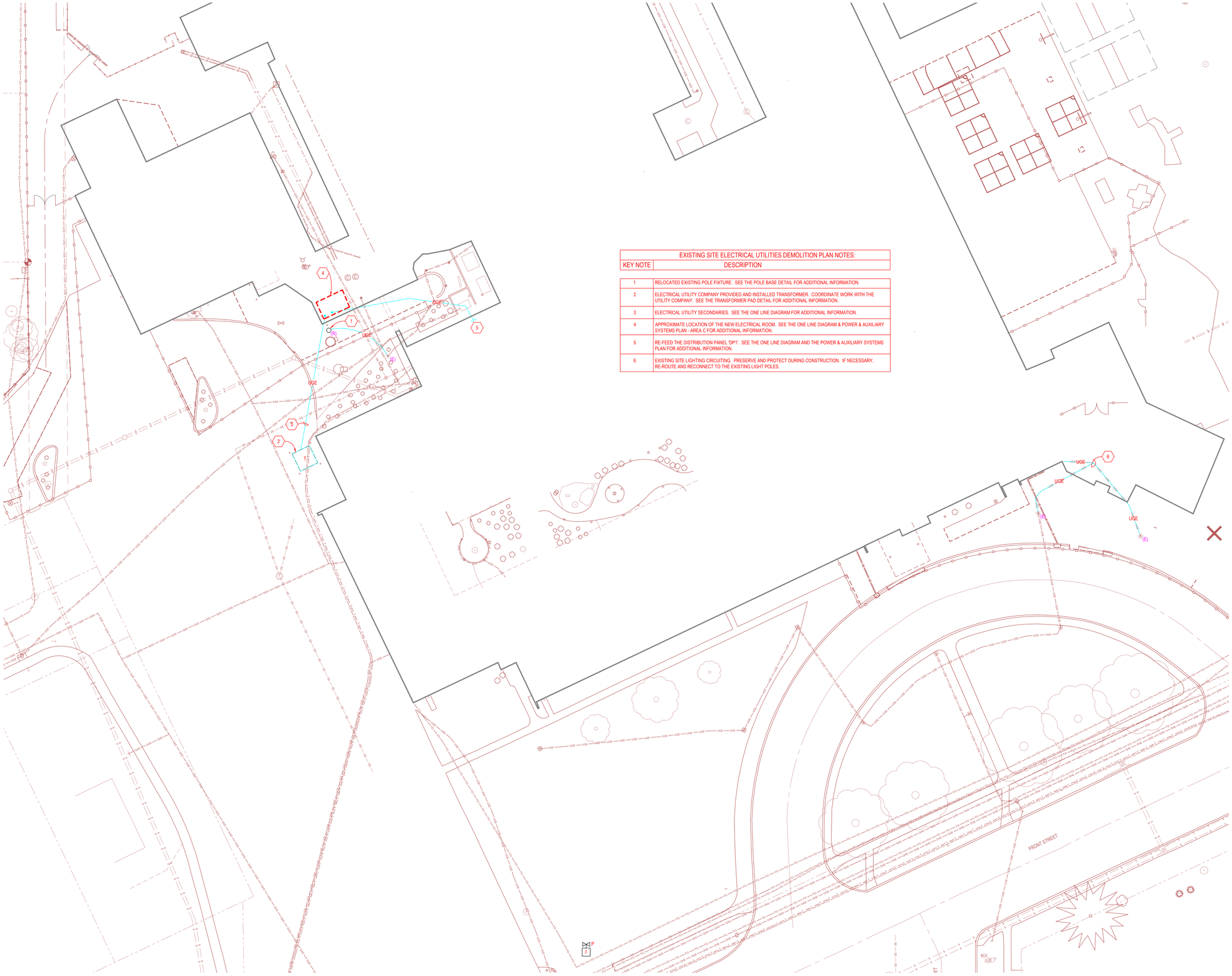
November 18, 2022

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Existing Site Electrical Utilities Demolition Plan

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EXISTING SITE ELECTRICAL UTILITIES DEMOLITION PLAN NOTES:	
KEY NOTE	DESCRIPTION
1	RELOCATED EXISTING POLE FIXTURE. SEE THE POLE BASE DETAIL FOR ADDITIONAL INFORMATION.
2	ELECTRICAL UTILITY COMPANY PROVIDED AND INSTALLED TRANSFORMER. COORDINATE WORK WITH THE UTILITY COMPANY. SEE THE TRANSFORMER PAD DETAIL FOR ADDITIONAL INFORMATION.
3	ELECTRICAL UTILITY SECONDARIES. SEE THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
4	APPROXIMATE LOCATION OF THE NEW ELECTRICAL ROOM. SEE THE ONE LINE DIAGRAM & POWER & AUXILIARY SYSTEMS PLAN - AREA C FOR ADDITIONAL INFORMATION.
5	RE-FEED THE DISTRIBUTION PANEL 'DP1'. SEE THE ONE LINE DIAGRAM AND THE POWER & AUXILIARY SYSTEMS PLAN FOR ADDITIONAL INFORMATION.
6	EXISTING SITE LIGHTING CIRCUITING. PRESERVE AND PROTECT DURING CONSTRUCTION. IF NECESSARY, RE-ROUTE AND RECONNECT TO THE EXISTING LIGHT POLES.

EXISTING SITE ELECTRICAL UTILITIES DEMOLITION PLAN

SCALE: 1"=20'-0"

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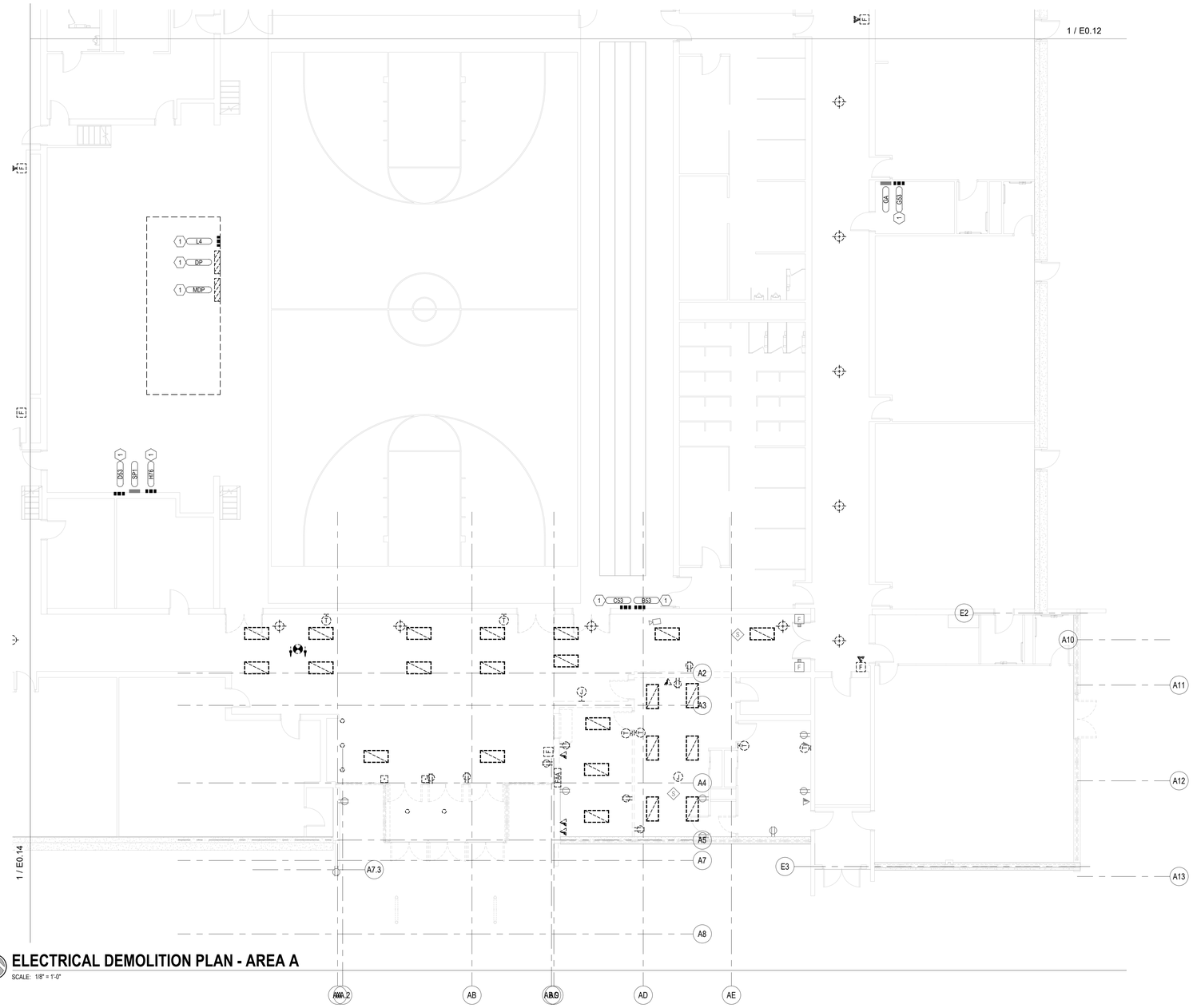
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Site Electrical Utilities Plan

E0.02

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ELECTRICAL DEMOLITION PLAN - AREA A

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

ELECTRICAL DEMOLITION PLAN - AREA A NOTES	
KEY NOTE	DESCRIPTION
1	REFER TO THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON PANELS SHOWN TO BE REMOVED/ REPLACED.

ANY EXISTING FIRE ALARM DEVICES THAT ARE FOUND, WHICH ARE NOT SHOWN ON THE DEMOLITION PLANS, SHALL BE REMOVED AFTER CONSULTATION WITH THE ENGINEER.

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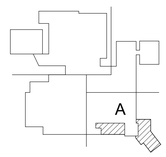
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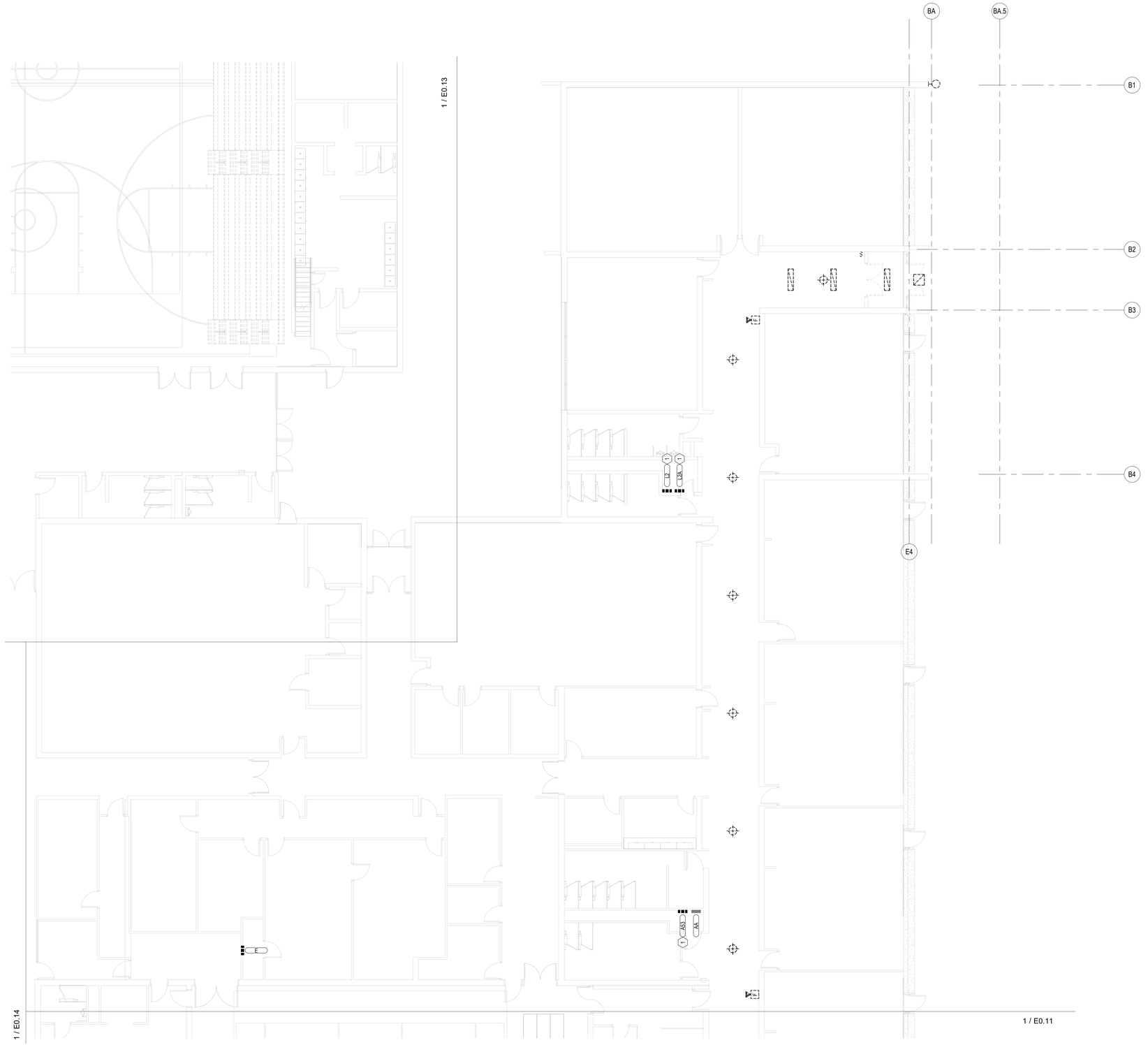
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Electrical Demolition Plan - Area A

E0.11

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ELECTRICAL DEMOLITION PLAN - AREA B NOTES	
KEY NOTE	DESCRIPTION
1	REFER TO THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON PANELS SHOWN TO BE REMOVED/ REPLACED.

ELECTRICAL DEMOLITION PLAN - AREA B

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

ANY EXISTING FIRE ALARM DEVICES THAT ARE FOUND, WHICH ARE NOT SHOWN ON THE DEMOLITION PLANS, SHALL BE REMOVED AFTER CONSULTATION WITH THE ENGINEER.

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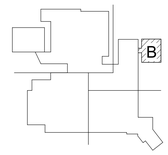
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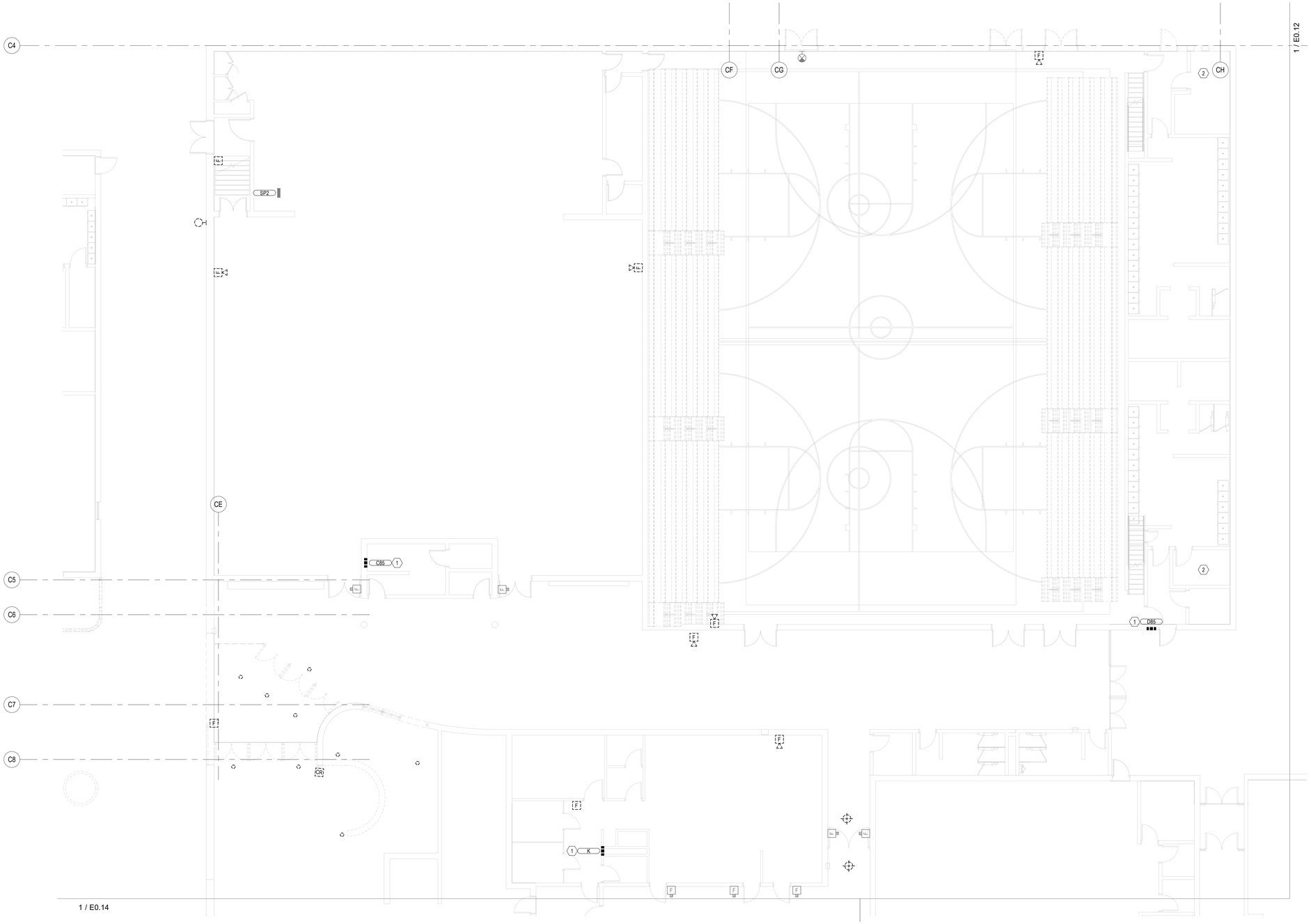
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Electrical Demolition Plan - Area B

E0.12

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ELECTRICAL DEMOLITION PLAN - AREA C

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

ELECTRICAL DEMOLITION PLAN - AREA C NOTES	
KEY NOTE	DESCRIPTION
1	REFER TO THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON PANELS SHOWN TO BE REMOVED/ REPLACED.
2	REMOVE ELECTRICAL CONNECTION TO DEMOLISHED MECHANICAL UNIT IN THE UPPER LEVEL NEAR THIS AREA.

ANY EXISTING FIRE ALARM DEVICES THAT ARE FOUND, WHICH ARE NOT SHOWN ON THE DEMOLITION PLANS, SHALL BE REMOVED AFTER CONSULTATION WITH THE ENGINEER.

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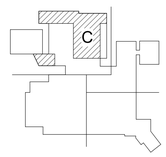
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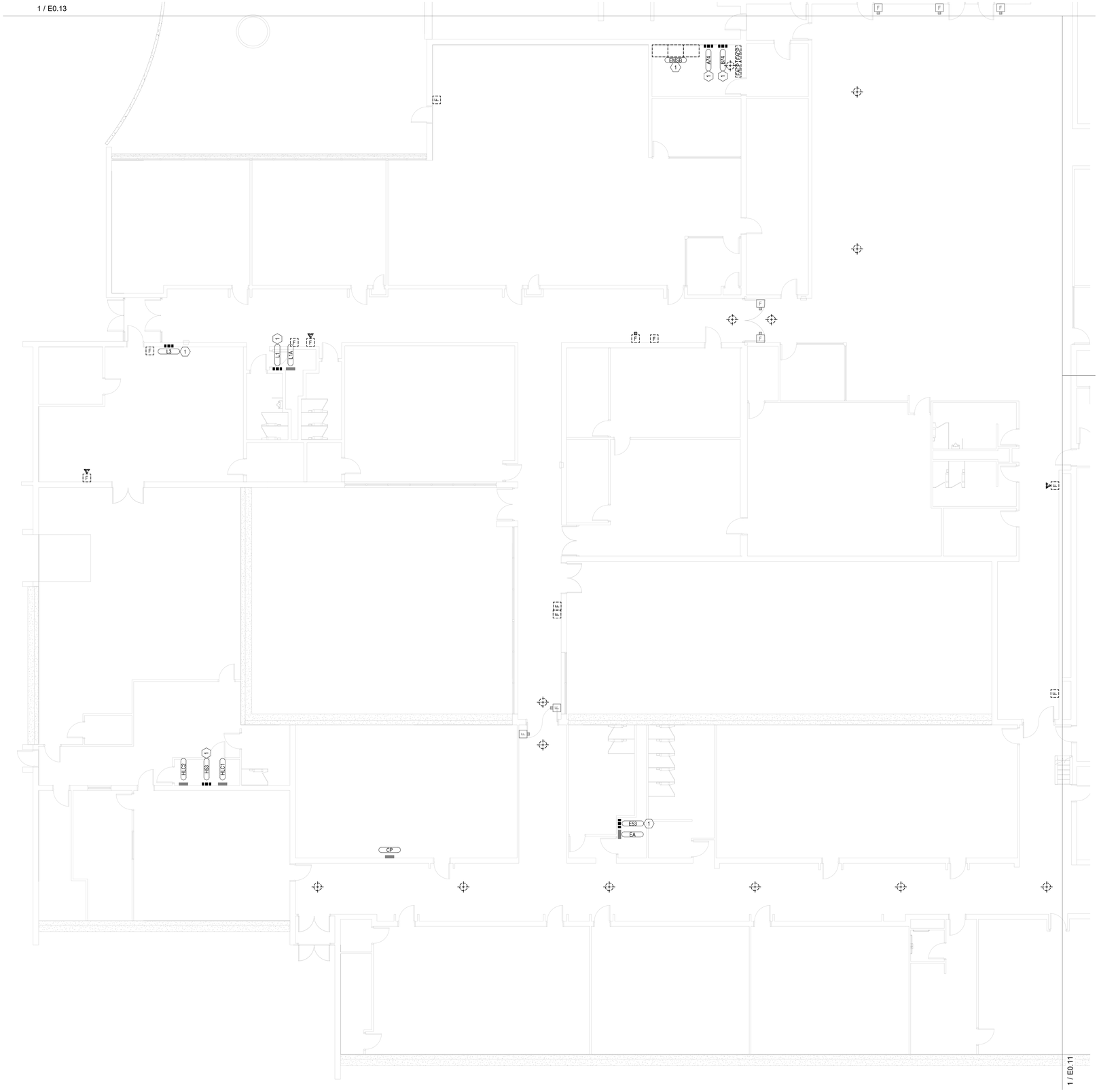
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Electrical Demolition Plan - Area C

E0.13

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1 / E0.13



ELECTRICAL DEMOLITION PLAN - AREA D

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

ELECTRICAL DEMOLITION PLAN - AREA D NOTES	
KEY NOTE	DESCRIPTION
1	REFER TO THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON PANELS SHOWN TO BE REMOVED/ REPLACED.

ANY EXISTING FIRE ALARM DEVICES THAT ARE FOUND, WHICH ARE NOT SHOWN ON THE DEMOLITION PLANS, SHALL BE REMOVED AFTER CONSULTATION WITH THE ENGINEER.

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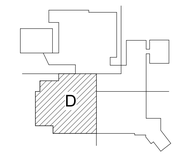
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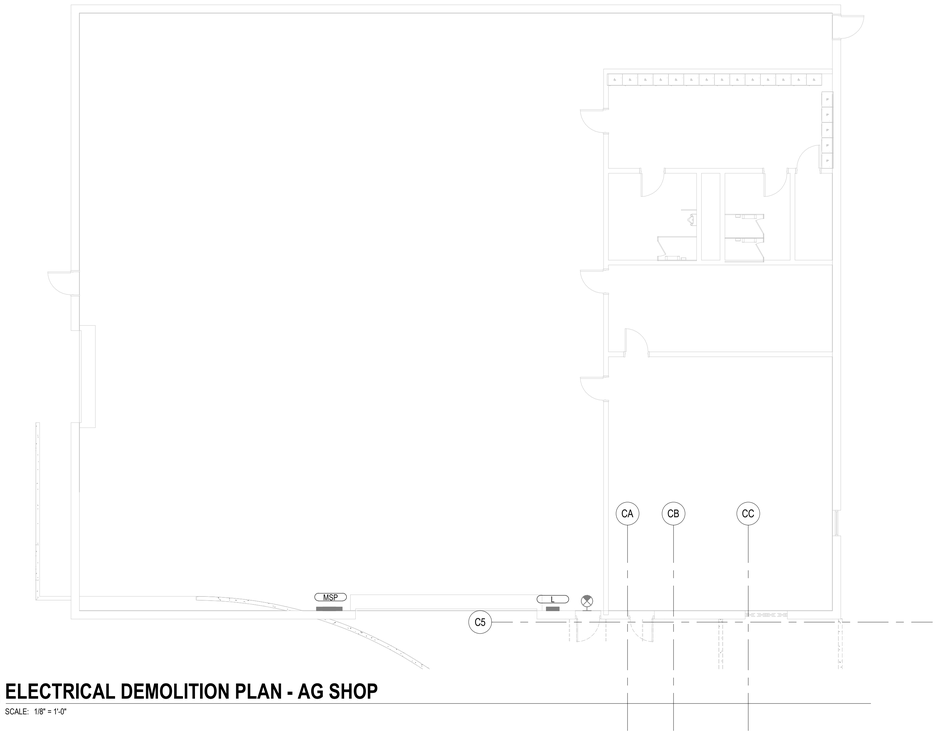
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Electrical Demolition Plan - Area D

E0.14

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ELECTRICAL DEMOLITION PLAN - AG SHOP

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

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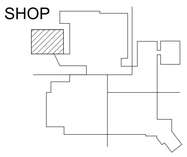
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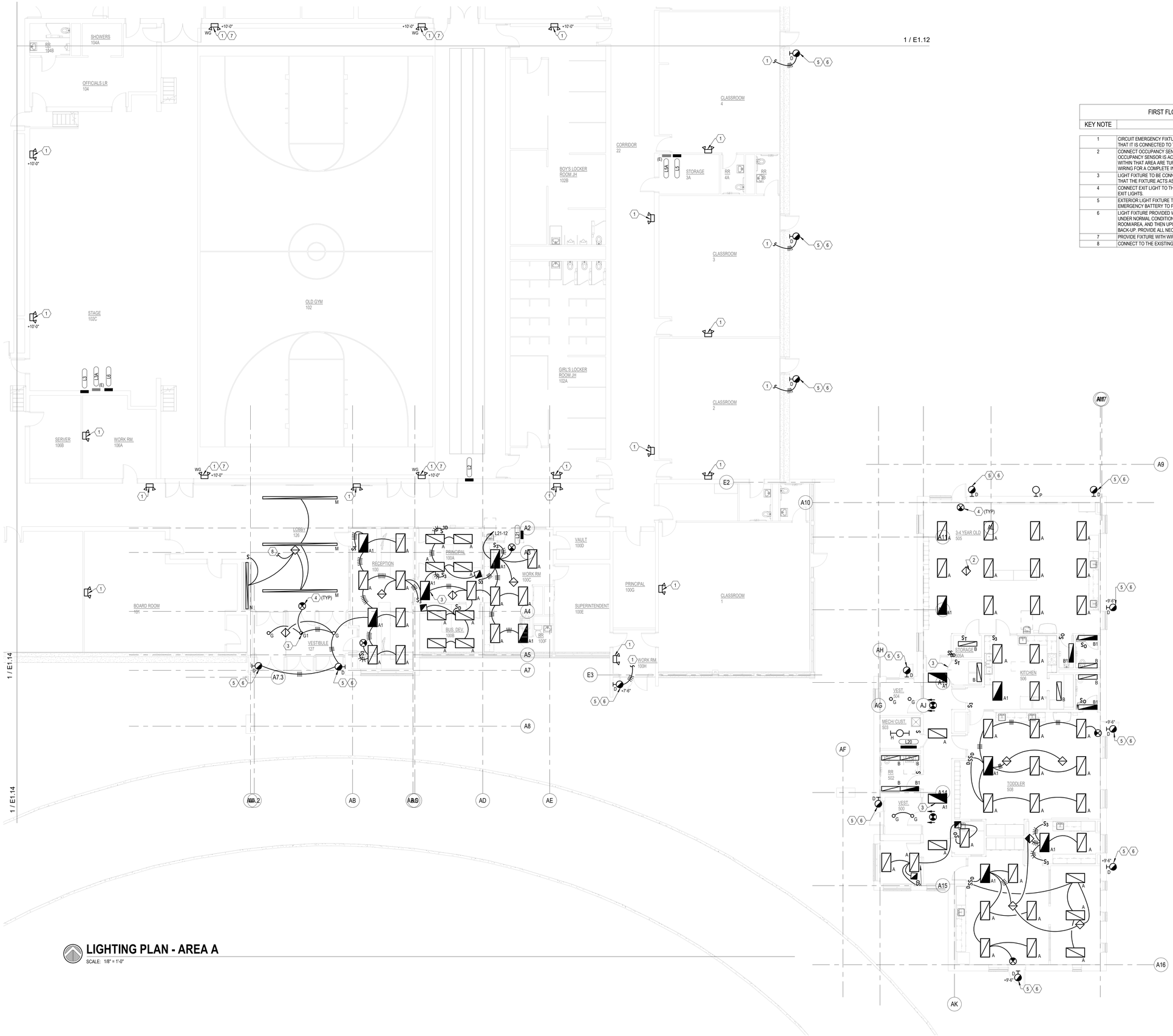
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Electrical Demolition Plan - Ag Shop

E0.15

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LIGHTING PLAN - AREA A

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

FIRST FLOOR LIGHTING PLAN - AREA A NOTES	
KEY NOTE	DESCRIPTION
1	CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT IS CONNECTED TO THE UNSWITCHED HOT CONDUCTOR THAT SERVES THE SPACE.
2	CONNECT OCCUPANCY SENSORS IN PARALLEL WHEN SHOWN CIRCUITED TOGETHER SO THAT WHEN ONE OCCUPANCY SENSOR IS ACTIVATED, THE OTHER OCCUPANCY SENSOR IS ALSO ACTIVATED AND THE LIGHTS WITHIN THAT AREA ARE TURNED ON/STAY ON. PROVIDE AND INSTALL ALL NECESSARY POWER PACKS AND WIRING FOR A COMPLETE INSTALLATION.
3	LIGHT FIXTURE TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED SO THAT THE FIXTURE ACTS AS A NIGHT LIGHT AND IS ON 24/7.
4	CONNECT EXIT LIGHT TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED. TYPICAL OF ALL EXIT LIGHTS.
5	EXTERIOR LIGHT FIXTURE TO BE PROVIDED WITH AN INTEGRAL PHOTOCELL FOR CONTROL AND AN INTEGRAL EMERGENCY BATTERY TO PROVIDE CODE REQUIRED EMERGENCY EGRESS LIGHTING.
6	LIGHT FIXTURE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. CONNECT FIXTURE SO THAT UNDER NORMAL CONDITIONS, THE LIGHT FIXTURE IS CONTROLLED BY THE LIGHTING CONTROLS WITHIN THAT ROOM/AREA, AND THEN UPON LOSS OF POWER, THE FIXTURE IS SWITCHED OVER TO EMERGENCY BATTERY BACK-UP. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS AS NECESSARY.
7	PROVIDE FIXTURE WITH WIRE GUARD.
8	CONNECT TO THE EXISTING LIGHTING CIRCUIT THAT PREVIOUSLY FED THIS AREA.

IN ROOMS WHERE DIMMER SWITCHES ARE INDICATED, CONTRACTOR SHALL INSTALL QUANTITY OF LOW-VOLTAGE DIMMING CONDUCTORS REQUIRED FOR 0-10V DIMMING.

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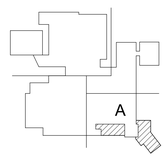
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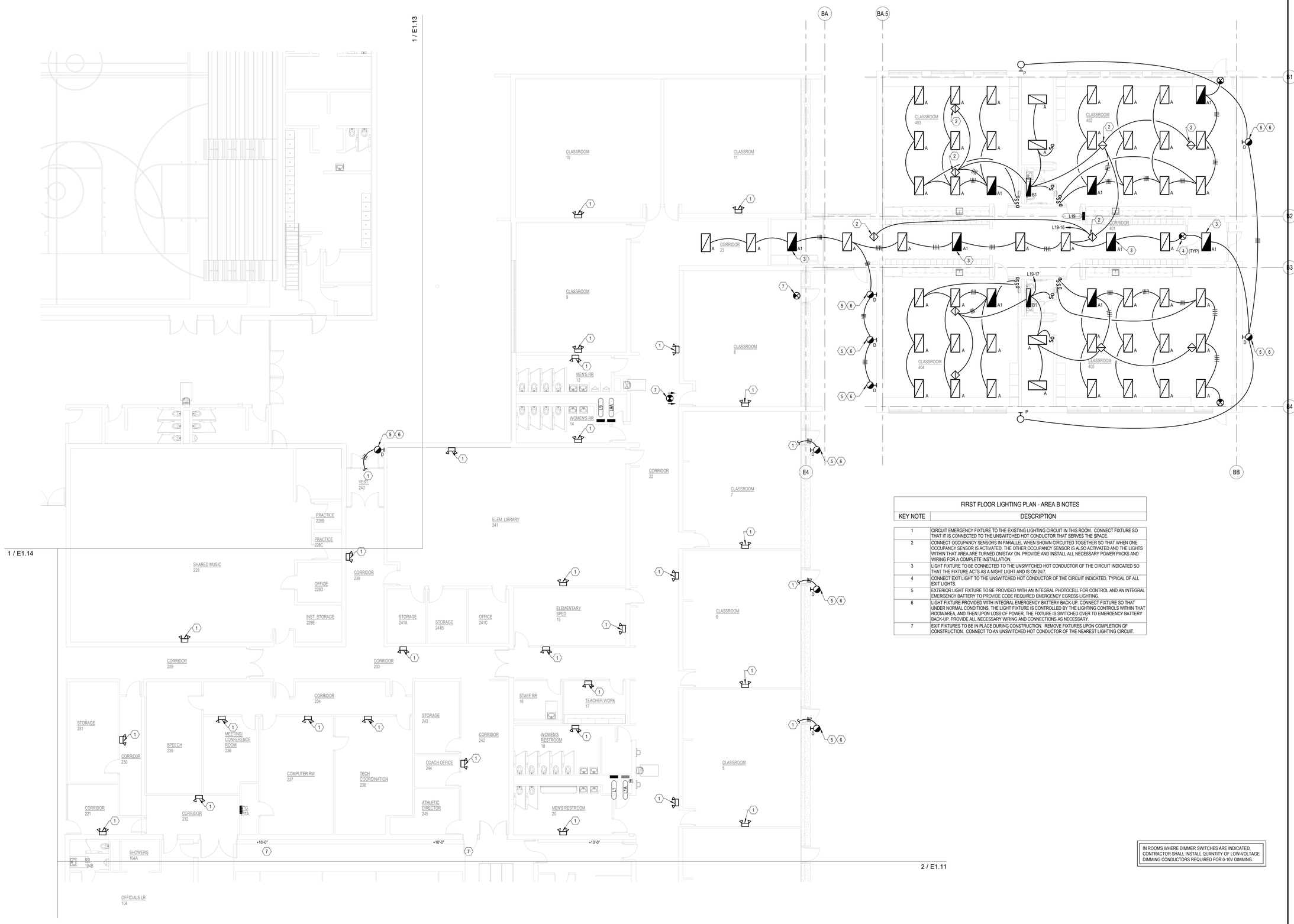
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Lighting Plan - Area A

E1.11

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LIGHTING PLAN - AREA B

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

FIRST FLOOR LIGHTING PLAN - AREA B NOTES

KEY NOTE	DESCRIPTION
1	CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT IS CONNECTED TO THE UNSWITCHED HOT CONDUCTOR THAT SERVES THE SPACE.
2	CONNECT OCCUPANCY SENSORS IN PARALLEL WHEN SHOWN CIRCUITED TOGETHER SO THAT WHEN ONE OCCUPANCY SENSOR IS ACTIVATED, THE OTHER OCCUPANCY SENSOR IS ALSO ACTIVATED AND THE LIGHTS WITHIN THAT AREA ARE TURNED ONSTAY ON. PROVIDE AND INSTALL ALL NECESSARY POWER PACKS AND WIRING FOR A COMPLETE INSTALLATION.
3	LIGHT FIXTURE TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED SO THAT THE FIXTURE ACTS AS A NIGHT LIGHT AND IS ON 24/7.
4	CONNECT EXIT LIGHT TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED. TYPICAL OF ALL EXIT LIGHTS.
5	EXTERIOR LIGHT FIXTURE TO BE PROVIDED WITH AN INTEGRAL PHOTOCELL FOR CONTROL AND AN INTEGRAL EMERGENCY BATTERY TO PROVIDE CODE REQUIRED EMERGENCY EGRESS LIGHTING.
6	LIGHT FIXTURE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. CONNECT FIXTURE SO THAT UNDER NORMAL CONDITIONS, THE LIGHT FIXTURE IS CONTROLLED BY THE LIGHTING CONTROLS WITHIN THAT ROOM/AREA, AND THEN UPON LOSS OF POWER, THE FIXTURE IS SWITCHED OVER TO EMERGENCY BATTERY BACK-UP. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS AS NECESSARY.
7	EXIT FIXTURES TO BE IN PLACE DURING CONSTRUCTION. REMOVE FIXTURES UPON COMPLETION OF CONSTRUCTION. CONNECT TO AN UNSWITCHED HOT CONDUCTOR OF THE NEAREST LIGHTING CIRCUIT.

IN ROOMS WHERE DIMMER SWITCHES ARE INDICATED, CONTRACTOR SHALL INSTALL QUANTITY OF LOW-VOLTAGE DIMMING CONDUCTORS REQUIRED FOR 0-10V DIMMING.

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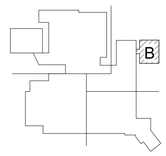
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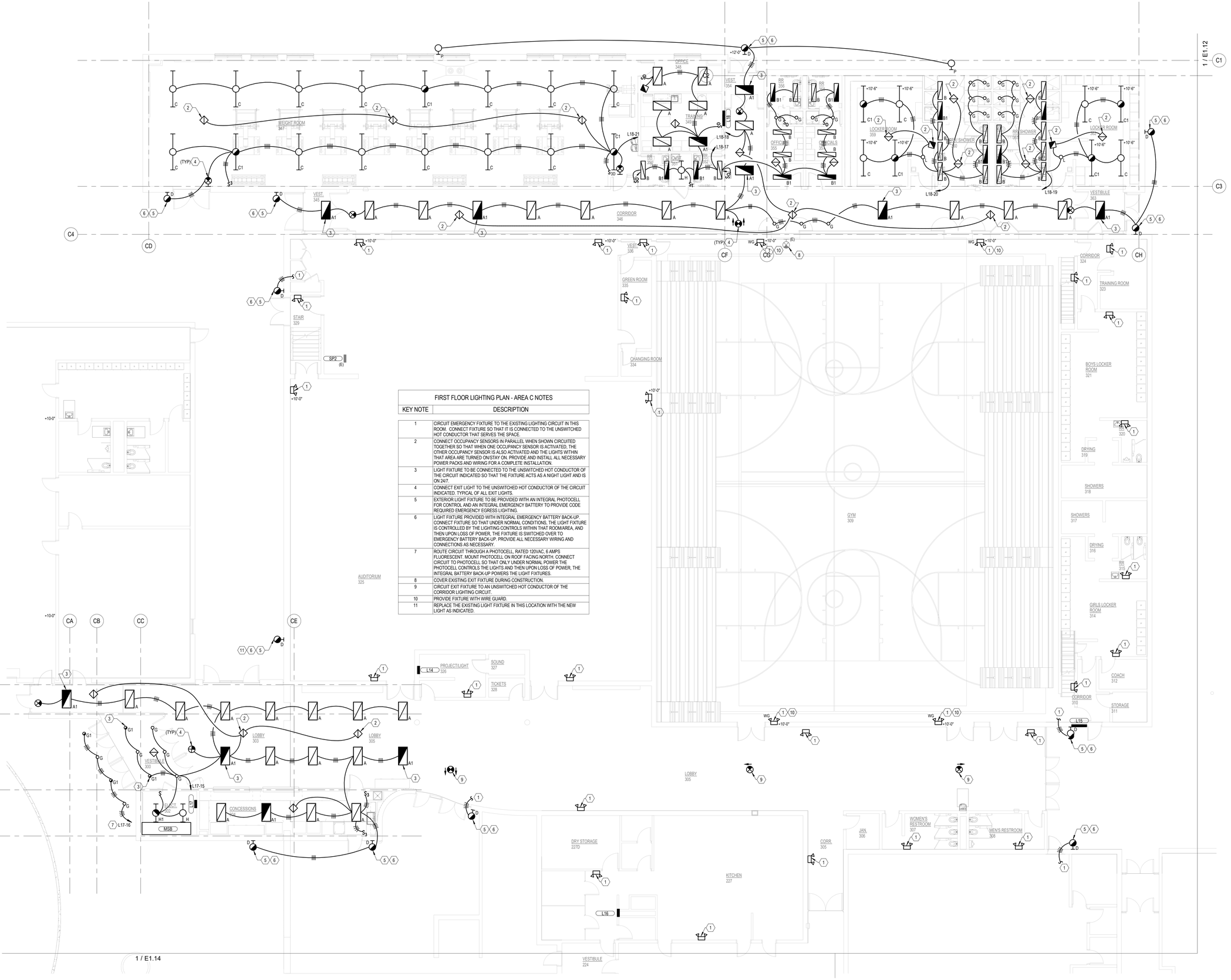
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Lighting Plan - Area B

E1.12

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FIRST FLOOR LIGHTING PLAN - AREA C NOTES

KEY NOTE	DESCRIPTION
1	CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT IS CONNECTED TO THE UNSWITCHED HOT CONDUCTOR THAT SERVES THE SPACE.
2	CONNECT OCCUPANCY SENSORS IN PARALLEL WHEN SHOWN CIRCUITED TOGETHER SO THAT WHEN ONE OCCUPANCY SENSOR IS ACTIVATED, THE OTHER OCCUPANCY SENSOR IS ALSO ACTIVATED AND THE LIGHTS WITHIN THAT AREA ARE TURNED ON/STAY ON. PROVIDE AND INSTALL ALL NECESSARY POWER PACKS AND WIRING FOR A COMPLETE INSTALLATION.
3	LIGHT FIXTURE TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED SO THAT THE FIXTURE ACTS AS A NIGHT LIGHT AND IS ON 24/7.
4	CONNECT EXIT LIGHT TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED. TYPICAL OF ALL EXIT LIGHTS.
5	EXTERIOR LIGHT FIXTURE TO BE PROVIDED WITH AN INTEGRAL PHOTOCELL FOR CONTROL AND AN INTEGRAL EMERGENCY BATTERY TO PROVIDE CODE REQUIRED EMERGENCY EGRESS LIGHTING.
6	LIGHT FIXTURE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. CONNECT FIXTURE SO THAT UNDER NORMAL CONDITIONS, THE LIGHT FIXTURE IS CONTROLLED BY THE LIGHTING CONTROLS WITHIN THAT ROOM/AREA, AND THEN UPON LOSS OF POWER, THE FIXTURE IS SWITCHED OVER TO EMERGENCY BATTERY BACK-UP. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS AS NECESSARY.
7	ROUTE CIRCUIT THROUGH A PHOTOCELL, RATED 120VAC, 6 AMPS FLUORESCENT. MOUNT PHOTOCELL ON ROOF FACING NORTH. CONNECT CIRCUIT TO PHOTOCELL SO THAT ONLY UNDER NORMAL POWER THE PHOTOCELL CONTROLS THE LIGHTS AND THEN UPON LOSS OF POWER, THE INTEGRAL BATTERY BACK-UP POWERS THE LIGHT FIXTURES.
8	COVER EXISTING EXIT FIXTURE DURING CONSTRUCTION.
9	CIRCUIT EXIT FIXTURE TO AN UNSWITCHED HOT CONDUCTOR OF THE CORRIDOR LIGHTING CIRCUIT.
10	PROVIDE FIXTURE WITH WIRE GUARD.
11	REPLACE THE EXISTING LIGHT FIXTURE IN THIS LOCATION WITH THE NEW LIGHT AS INDICATED.

IN ROOMS WHERE DIMMER SWITCHES ARE INDICATED, CONTRACTOR SHALL INSTALL QUANTITY OF LOW-VOLTAGE DIMMING CONDUCTORS REQUIRED FOR 0-10V DIMMING.

LIGHTING PLAN - AREA C

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

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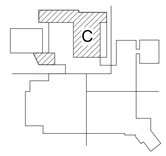
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A - 2	12/07/2022	ADDENDUM #2



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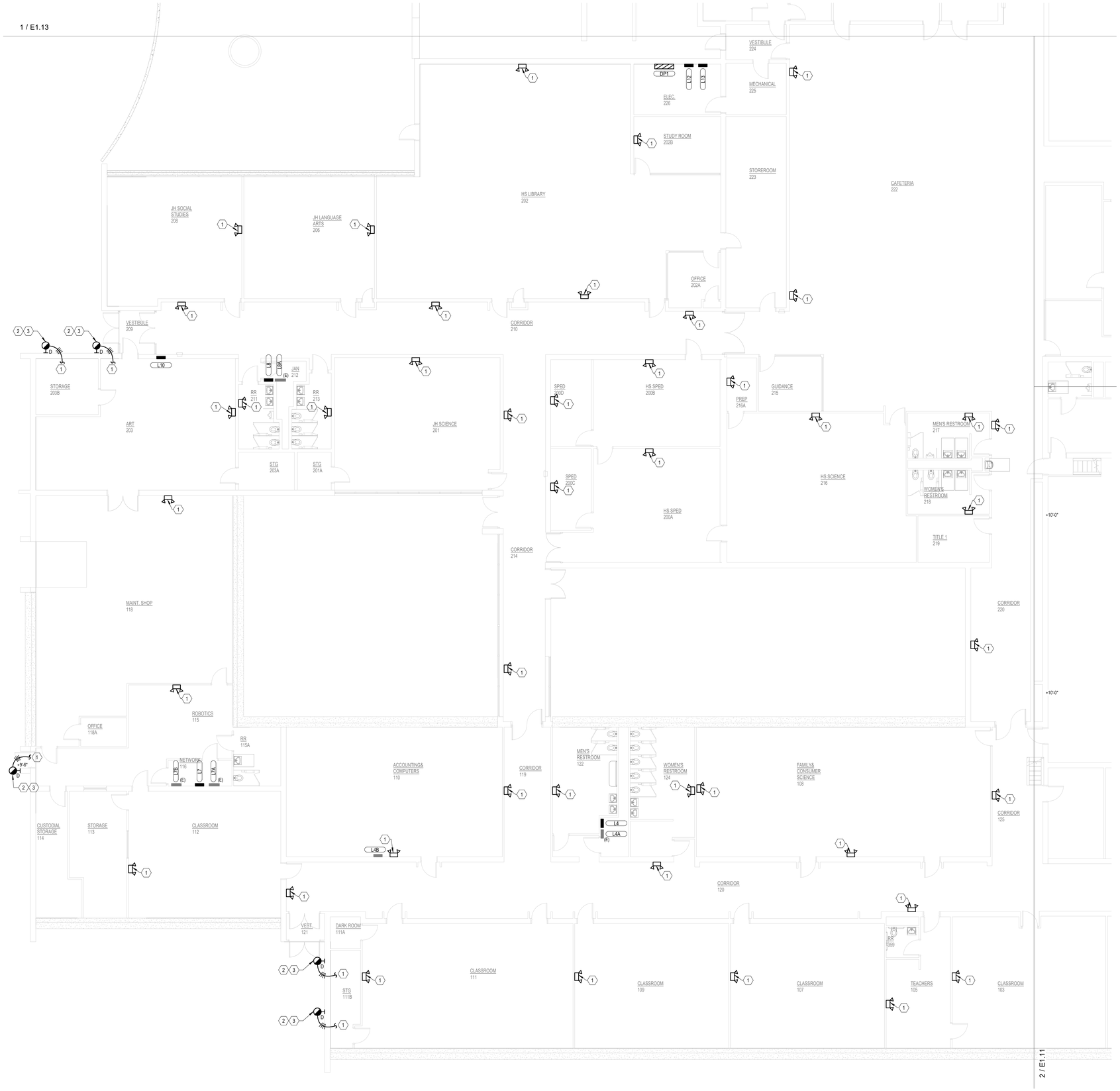
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Lighting Plan - Area C

E1.13

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LIGHTING PLAN - AREA D

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

FIRST FLOOR LIGHTING PLAN - AREA D NOTES	
KEY NOTE	DESCRIPTION
1	CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT IS CONNECTED TO THE UNSWITCHED HOT CONDUCTOR THAT SERVES THE SPACE.CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT IS CONNECTED TO THE UNSWITCHED HOT CONDUCTOR THAT SERVES THE SPACE.
2	EXTERIOR LIGHT FIXTURE TO BE PROVIDED WITH AN INTEGRAL PHOTOCELL FOR CONTROL AND AN INTEGRAL EMERGENCY BATTERY TO PROVIDE CODE REQUIRED EMERGENCY EGRESS LIGHTING.
3	LIGHT FIXTURE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. CONNECT FIXTURE SO THAT UNDER NORMAL CONDITIONS, THE LIGHT FIXTURE IS CONTROLLED BY THE LIGHTING CONTROLS WITHIN THAT ROOM/AREA, AND THEN UPON LOSS OF POWER, THE FIXTURE IS SWITCHED OVER TO EMERGENCY BATTERY BACK-UP. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS AS NECESSARY.

IN ROOMS WHERE DIMMER SWITCHES ARE INDICATED, CONTRACTOR SHALL INSTALL QUANTITY OF LOW-VOLTAGE DIMMING CONDUCTORS REQUIRED FOR 0-10V DIMMING.

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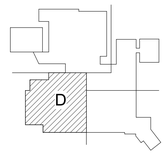
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Key Plan

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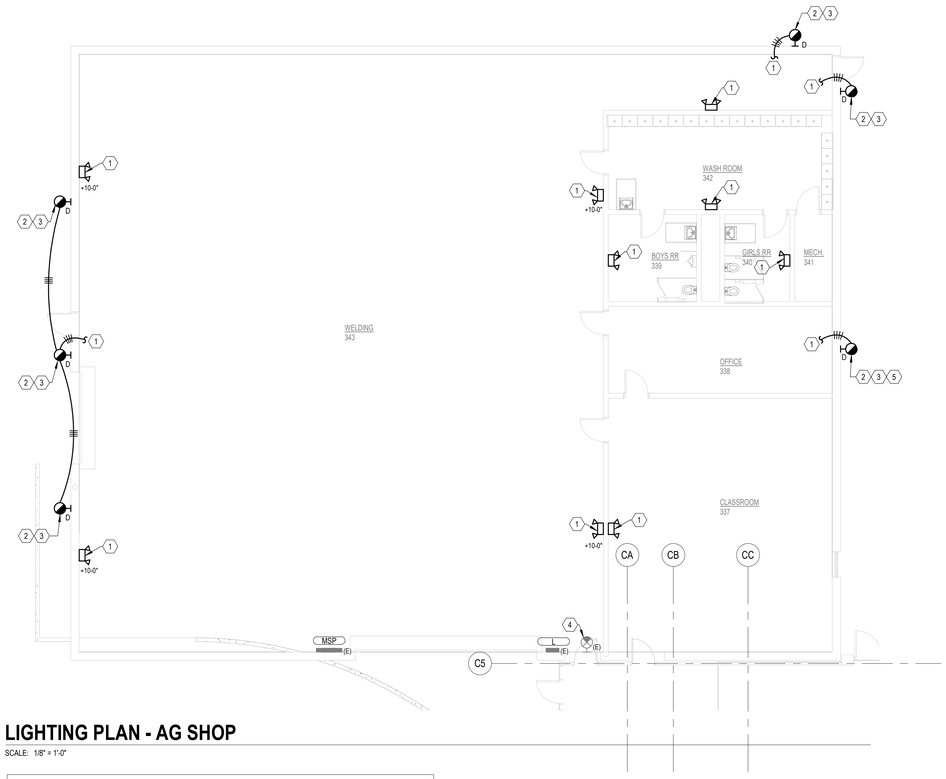
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Lighting Plan - Area D

E1.14

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LIGHTING PLAN - AG SHOP

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

FIRST FLOOR LIGHTING PLAN - AG SHOP NOTES	
KEY NOTE	DESCRIPTION
1	CIRCUIT EMERGENCY FIXTURE TO THE EXISTING LIGHTING CIRCUIT IN THIS ROOM. CONNECT FIXTURE SO THAT IT ILLUMINATES UNDER A POWER LOSS SCENARIO.
2	EXTERIOR LIGHT FIXTURE TO BE PROVIDED WITH AN INTEGRAL PHOTOCELL FOR CONTROL AND AN INTEGRAL EMERGENCY BATTERY TO PROVIDE CODE REQUIRED EMERGENCY EGRESS LIGHTING.
3	LIGHT FIXTURE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP. CONNECT FIXTURE SO THAT UNDER NORMAL CONDITIONS, THE LIGHT FIXTURE IS CONTROLLED BY THE LIGHTING CONTROLS WITHIN THAT ROOM/AREA, AND THEN UPON LOSS OF POWER, THE FIXTURE IS SWITCHED OVER TO EMERGENCY BATTERY BACK-UP. PROVIDE ALL NECESSARY WIRING AND CONNECTIONS AS NECESSARY.
4	COVER EXISTING EXIT FIXTURE DURING CONSTRUCTION.
5	REPLACE THE EXISTING LIGHT FIXTURE IN THIS LOCATION WITH THE NEW LIGHT AS INDICATED.

IN ROOMS WHERE DIMMER SWITCHES ARE INDICATED, CONTRACTOR SHALL INSTALL QUANTITY OF LOW-VOLTAGE DIMMING CONDUCTORS REQUIRED FOR 0-10V DIMMING.

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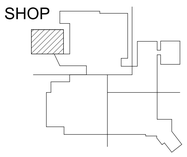
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Key Plan

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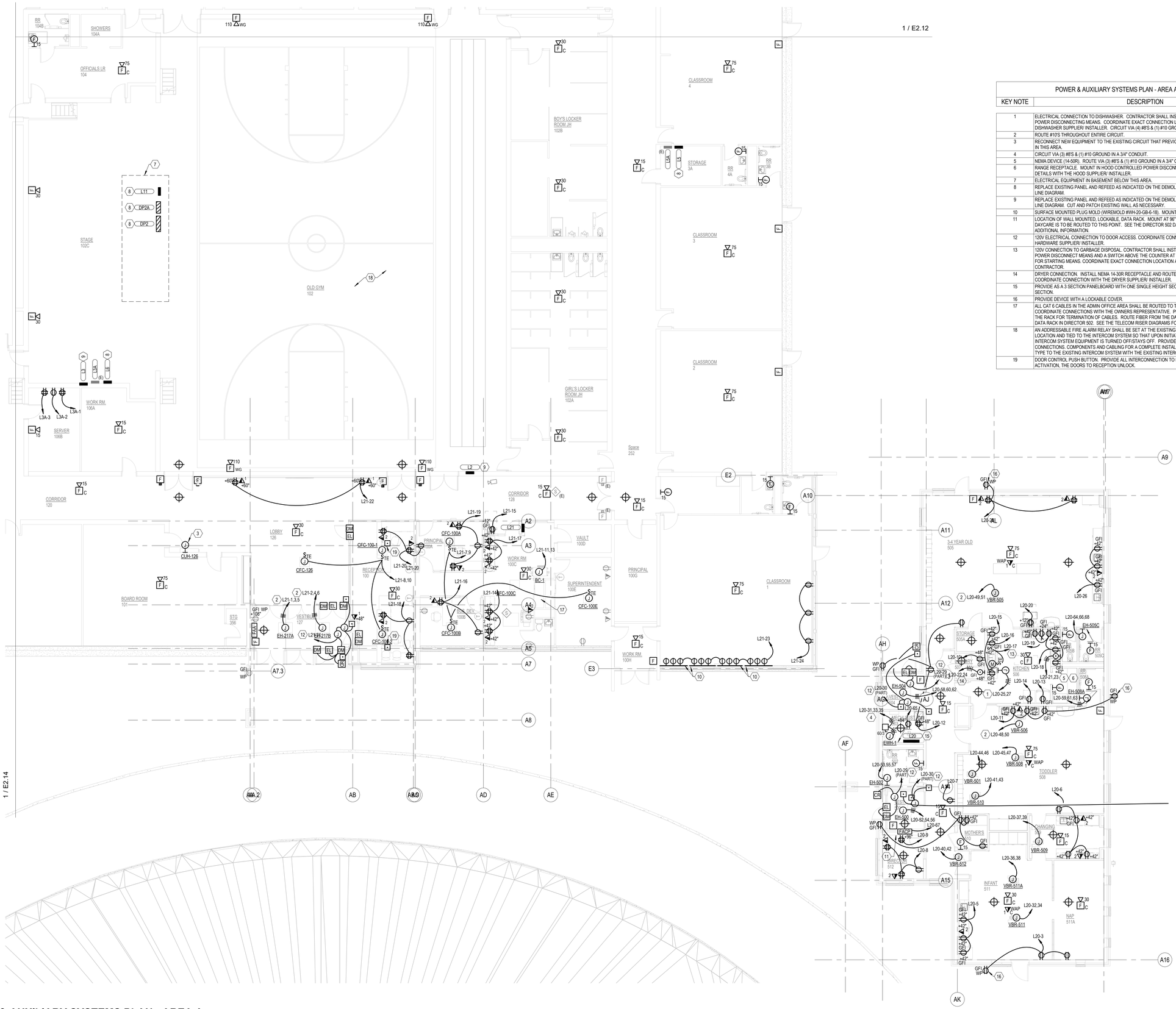
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Lighting Plan - Ag Shop

E1.15

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POWER & AUXILIARY SYSTEMS PLAN - AREA A

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

POWER & AUXILIARY SYSTEMS PLAN - AREA A NOTES	
KEY NOTE	DESCRIPTION
1	ELECTRICAL CONNECTION TO DISHWASHER. CONTRACTOR SHALL INSTALL A SWITCH BELOW THE SINK FOR POWER DISCONNECTING MEANS. COORDINATE EXACT CONNECTION LOCATION AND DETAILS WITH THE DISHWASHER SUPPLIER/ INSTALLER. CIRCUIT VIA (4) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT.
2	ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT.
3	RECONNECT NEW EQUIPMENT TO THE EXISTING CIRCUIT THAT PREVIOUSLY FED THE REMOVED EQUIPMENT IN THIS AREA.
4	CIRCUIT VIA (3) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT.
5	NEMA DEVICE (14-50R). ROUTE VIA (3) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT.
6	RANGE RECEPTACLE. MOUNT IN HOOD CONTROLLED POWER DISCONNECT BOX. COORDINATE CONNECTION DETAILS WITH THE HOOD SUPPLIER/ INSTALLER.
7	ELECTRICAL EQUIPMENT IN BASEMENT BELOW THIS AREA.
8	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM.
9	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM. CUT AND PATCH EXISTING WALL AS NECESSARY.
10	SURFACE MOUNTED PLUG MOLD (WIREMOLD #WH-20-GB-6-18). MOUNT PLUG MOLD TO WALL BASE.
11	LOCATION OF WALL MOUNTED, LOCKABLE, DATA RACK. MOUNT AT 96" AFF. ALL TELECOM CABLING IN THE DAYCARE IS TO BE ROUTED TO THIS POINT. SEE THE DIRECTOR 502 DATA RACK RISER DIAGRAM FOR ADDITIONAL INFORMATION.
12	120V ELECTRICAL CONNECTION TO DOOR ACCESS. COORDINATE CONNECTION DETAILS WITH THE HARDWARE SUPPLIER/ INSTALLER.
13	120V CONNECTION TO GARBAGE DISPOSAL. CONTRACTOR SHALL INSTALL A SWITCH BELOW THE SINK FOR POWER DISCONNECT MEANS AND A SWITCH ABOVE THE COUNTER AT 42" ABOVE FINISH FLOOR ELEVATION FOR STARTING MEANS. COORDINATE EXACT CONNECTION LOCATION AND DETAILS WITH THE MECHANICAL CONTRACTOR.
14	DRYER CONNECTION. INSTALL NEMA 14-30R RECEPTACLE AND ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT. COORDINATE CONNECTION WITH THE DRYER SUPPLIER/ INSTALLER.
15	PROVIDE AS A 3 SECTION PANELBOARD WITH ONE SINGLE HEIGHT SECTION AND ONE DOUBLE HEIGHT SECTION.
16	PROVIDE DEVICE WITH A LOCKABLE COVER.
17	ALL CAT 6 CABLES IN THE ADMIN OFFICE AREA SHALL BE ROUTED TO THE DATA RACK IN THIS LOCATION. COORDINATE CONNECTIONS WITH THE OWNERS REPRESENTATIVE. PROVIDE A 48 PORT PATCH PANEL IN THE RACK FOR TERMINATION OF CABLES. ROUTE FIBER FROM THE DATA RACK IN THIS ROOM TO THE NEW DATA RACK IN DIRECTOR 502. SEE THE TELECOM RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
18	AN ADDRESSABLE FIRE ALARM RELAY SHALL BE SET AT THE EXISTING INTERCOM HEAD-END EQUIPMENT LOCATION AND TIED TO THE INTERCOM SYSTEM SO THAT UPON INITIATION OF THE FIRE ALARM SYSTEM, THE INTERCOM SYSTEM EQUIPMENT IS TURNED OFF/STAYS OFF. PROVIDE ALL NECESSARY FIRE ALARM CONNECTIONS. COMPONENTS AND CABLING FOR A COMPLETE INSTALLATION. COORDINATE CONNECTION TYPE TO THE EXISTING INTERCOM SYSTEM WITH THE EXISTING INTERCOM SYSTEM HEAD-END EQUIPMENT.
19	DOOR CONTROL PUSH BUTTON. PROVIDE ALL INTERCONNECTION TO DOOR ACCESS SYSTEM SO THAT UPON ACTIVATION, THE DOORS TO RECEPTION UNLOCK.

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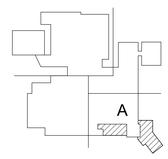
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A - 2	12/07/2022	ADDENDUM #2



Key Plan

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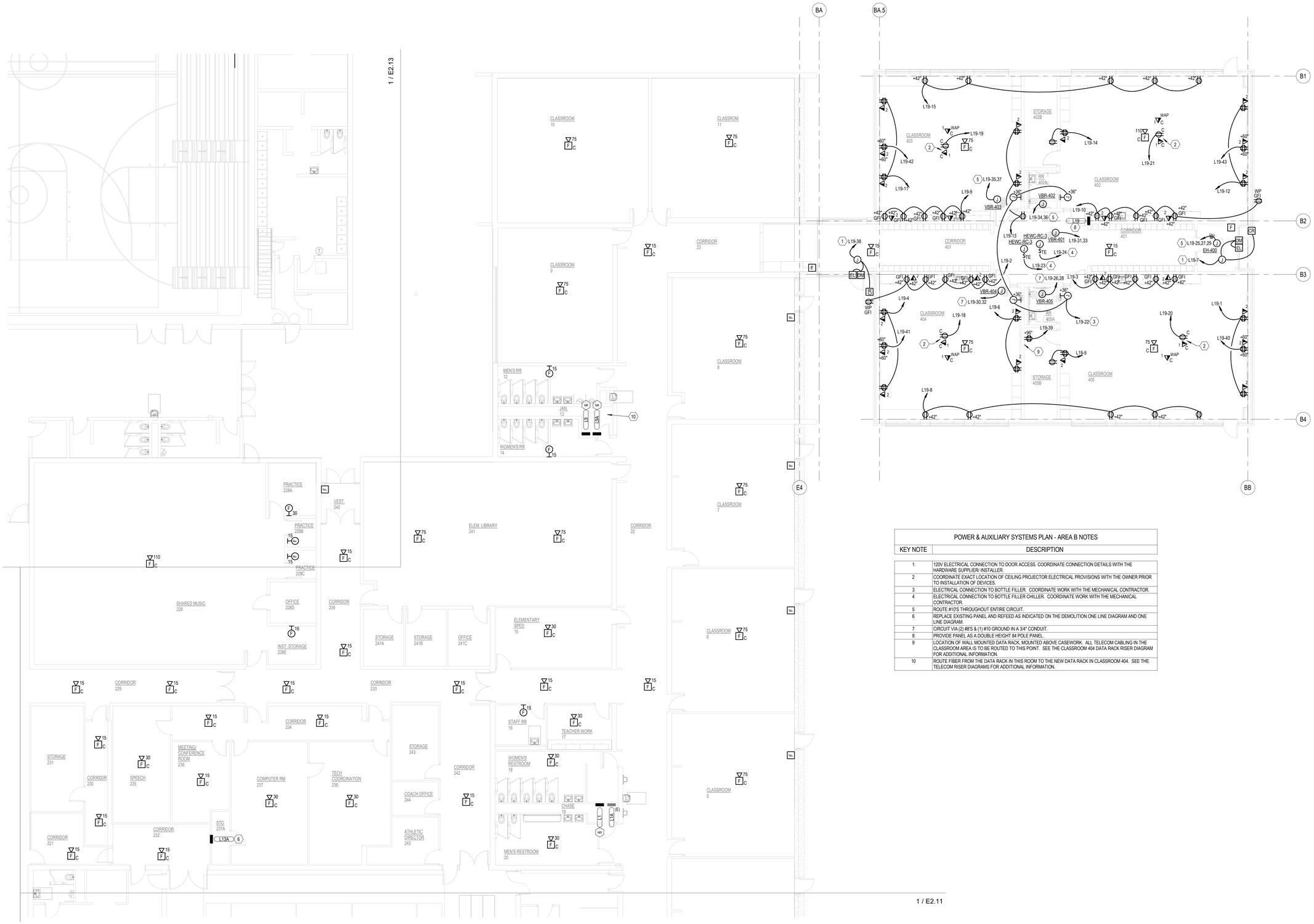
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Power & Auxiliary Systems Plan - Area A

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POWER & AUXILIARY SYSTEMS PLAN - AREA B NOTES

KEY NOTE	DESCRIPTION
1	120V ELECTRICAL CONNECTION TO DOOR ACCESS. COORDINATE CONNECTION DETAILS WITH THE HARDWARE SUPPLIER/ INSTALLER.
2	COORDINATE EXACT LOCATION OF CEILING PROJECTOR ELECTRICAL PROVISIONS WITH THE OWNER PRIOR TO INSTALLATION OF DEVICES.
3	ELECTRICAL CONNECTION TO BOTTLE FILLER. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR.
4	ELECTRICAL CONNECTION TO BOTTLE FILLER CHILLER. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR.
5	ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT.
6	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM.
7	CIRCUIT VIA (2) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT.
8	PROVIDE PANEL AS A DOUBLE HEIGHT 84 POLE PANEL.
9	LOCATION OF WALL MOUNTED DATA RACK, MOUNTED ABOVE CASEWORK. ALL TELECOM CABLING IN THE CLASSROOM AREA IS TO BE ROUTED TO THIS POINT. SEE THE CLASSROOM 404 DATA RACK RISER DIAGRAM FOR ADDITIONAL INFORMATION.
10	ROUTE FIBER FROM THE DATA RACK IN THIS ROOM TO THE NEW DATA RACK IN CLASSROOM 404. SEE THE TELECOM RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

POWER & AUXILIARY SYSTEMS PLAN - AREA B

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

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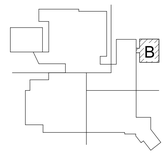
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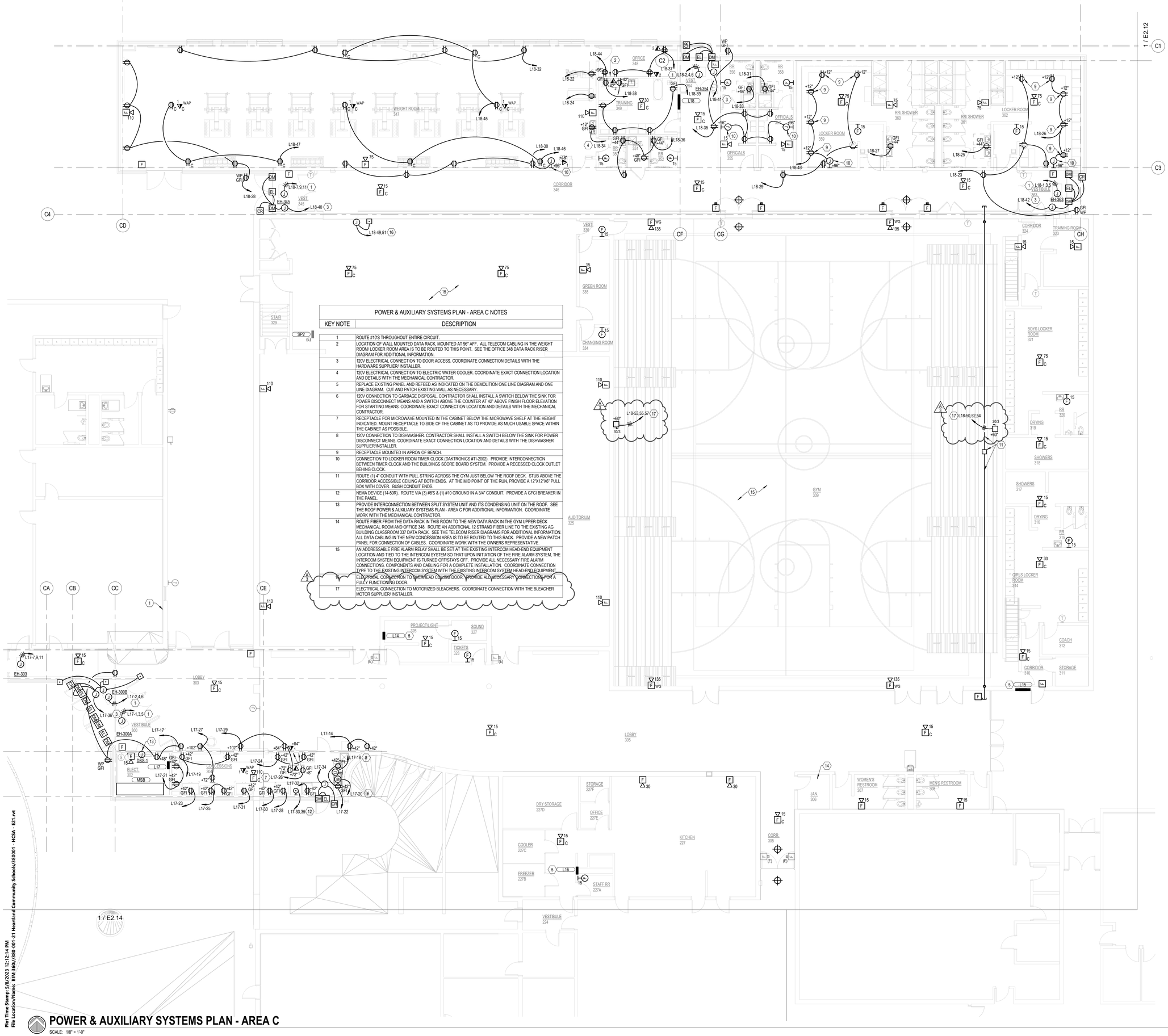
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Power & Auxiliary Systems Plan - Area B

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POWER & AUXILIARY SYSTEMS PLAN - AREA C NOTES

KEY NOTE	DESCRIPTION
1	ROUTE #10'S THROUGHOUT ENTIRE CIRCUIT.
2	LOCATION OF WALL MOUNTED DATA RACK, MOUNTED AT 96" AFF. ALL TELECOM CABLING IN THE WEIGHT ROOM/ LOCKER ROOM AREA IS TO BE ROUTED TO THIS POINT. SEE THE OFFICE 348 DATA RACK RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3	120V ELECTRICAL CONNECTION TO DOOR ACCESS. COORDINATE CONNECTION DETAILS WITH THE HARDWARE SUPPLIER/ INSTALLER.
4	120V ELECTRICAL CONNECTION TO ELECTRIC WATER COOLER. COORDINATE EXACT CONNECTION LOCATION AND DETAILS WITH THE MECHANICAL CONTRACTOR.
5	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM. CUT AND PATCH EXISTING WALL AS NECESSARY.
6	120V CONNECTION TO GARBAGE DISPOSAL. CONTRACTOR SHALL INSTALL A SWITCH BELOW THE SINK FOR POWER DISCONNECT MEANS AND A SWITCH ABOVE THE COUNTER AT 42" ABOVE FINISH FLOOR ELEVATION FOR STARTING MEANS. COORDINATE EXACT CONNECTION LOCATION AND DETAILS WITH THE MECHANICAL CONTRACTOR.
7	RECEPTACLE FOR MICROWAVE MOUNTED IN THE CABINET BELOW THE MICROWAVE SHELF AT THE HEIGHT INDICATED. MOUNT RECEPTACLE TO SIDE OF THE CABINET AS TO PROVIDE AS MUCH USABLE SPACE WITHIN THE CABINET AS POSSIBLE.
8	120V CONNECTION TO DISHWASHER. CONTRACTOR SHALL INSTALL A SWITCH BELOW THE SINK FOR POWER DISCONNECT MEANS. COORDINATE EXACT CONNECTION LOCATION AND DETAILS WITH THE DISHWASHER SUPPLIER/INSTALLER.
9	RECEPTACLE MOUNTED IN APRON OF BENCH.
10	CONNECTION TO LOCKER ROOM TIMER CLOCK (DAKTRONICS #TI-2002). PROVIDE INTERCONNECTION BETWEEN TIMER CLOCK AND THE BUILDINGS SCORE BOARD SYSTEM. PROVIDE A RECESSED CLOCK OUTLET BEHING CLOCK.
11	ROUTE (1) 4" CONDUIT WITH PULL STRING ACROSS THE GYM JUST BELOW THE ROOF DECK. STUB ABOVE THE CORRIDOR ACCESSIBLE CEILING AT BOTH ENDS. AT THE MID POINT OF THE RUN, PROVIDE A 12"X12"X8" PULL BOX WITH COVER. BUSH CONDUIT ENDS.
12	NEMA DEVICE (14-50R). ROUTE VIA (3) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT. PROVIDE A GFCI BREAKER IN THE PANEL.
13	PROVIDE INTERCONNECTION BETWEEN SPLIT SYSTEM UNIT AND ITS CONDENSING UNIT ON THE ROOF. SEE THE ROOF POWER & AUXILIARY SYSTEMS PLAN - AREA C FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR.
14	ROUTE FIBER FROM THE DATA RACK IN THIS ROOM TO THE NEW DATA RACK IN THE GYM UPPER DECK MECHANICAL ROOM AND OFFICE 348. ROUTE AN ADDITIONAL 12 STRAND FIBER LINE TO THE EXISTING AG BUILDING CLASSROOM 337 DATA RACK. SEE THE TELECOM RISER DIAGRAMS FOR ADDITIONAL INFORMATION. ALL DATA CABLING IN THE NEW CONCESSION AREA IS TO BE ROUTED TO THIS RACK. PROVIDE A NEW PATCH PANEL FOR CONNECTION OF CABLES. COORDINATE WORK WITH THE OWNERS REPRESENTATIVE.
15	AN ADDRESSABLE FIRE ALARM RELAY SHALL BE SET AT THE EXISTING INTERCOM HEAD-END EQUIPMENT LOCATION AND TIED TO THE INTERCOM SYSTEM SO THAT UPON INITIATION OF THE FIRE ALARM SYSTEM, THE INTERCOM SYSTEM EQUIPMENT IS TURNED OFF/STAYS OFF. PROVIDE ALL NECESSARY FIRE ALARM CONNECTIONS. COMPONENTS AND CABLING FOR A COMPLETE INSTALLATION. COORDINATE CONNECTION TYPE TO THE EXISTING INTERCOM SYSTEM WITH THE EXISTING INTERCOM SYSTEM HEAD-END EQUIPMENT.
16	ELECTRICAL CONNECTION TO OVERHEAD DOORS. PROVIDE ALL NECESSARY CONNECTIONS FOR A FULLY FUNCTIONING DOOR.
17	ELECTRICAL CONNECTION TO MOTORIZED BLEACHERS. COORDINATE CONNECTION WITH THE BLEACHER MOTOR SUPPLIER/ INSTALLER.

POWER & AUXILIARY SYSTEMS PLAN - AREA C

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

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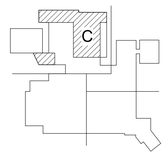
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A - 2	12/07/2022	ADDENDUM #2
A - 3	12/14/2022	ADDENDUM #3



Key Plan

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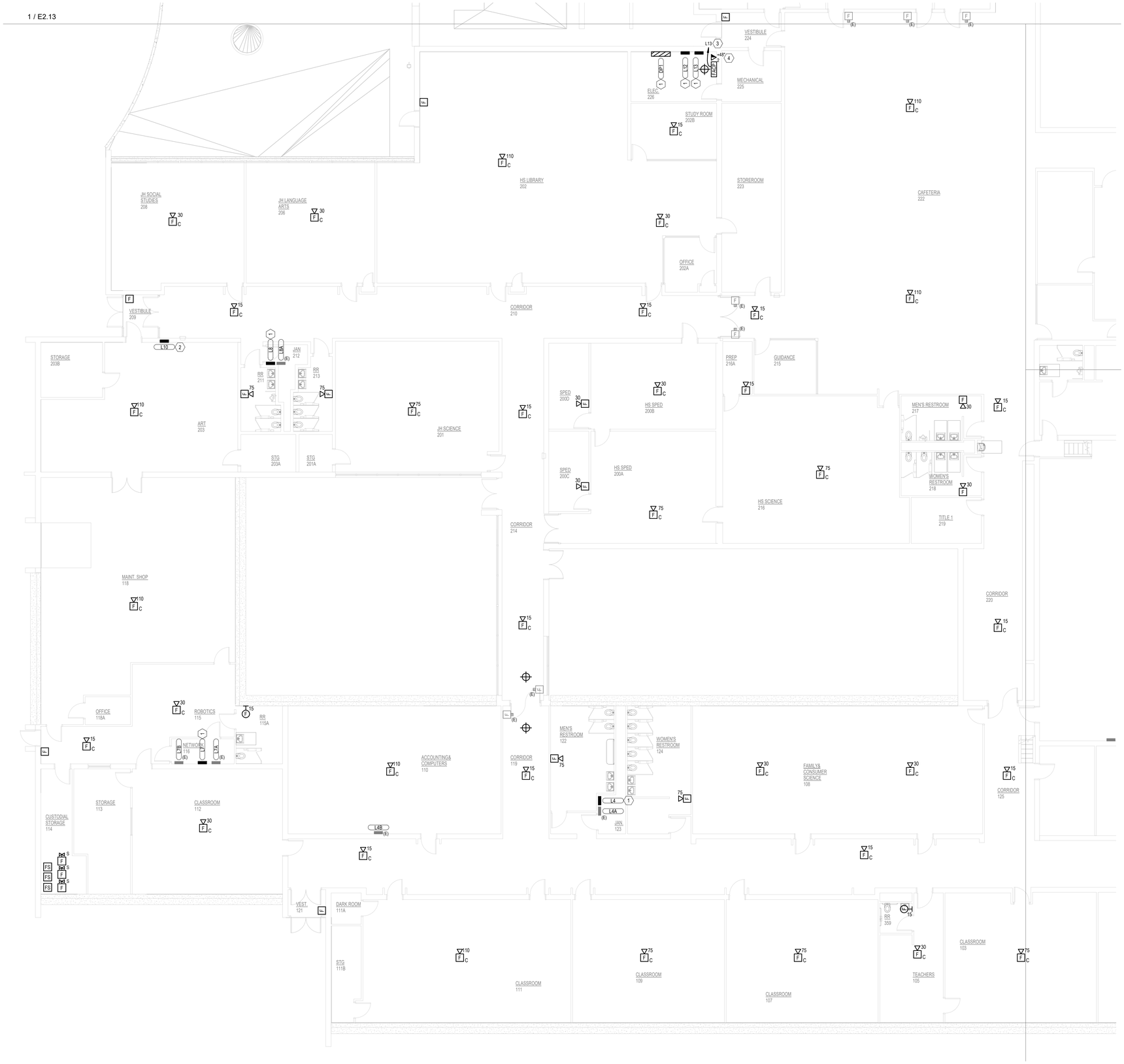
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Power & Auxiliary Systems Plan - Area C

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POWER & AUXILIARY SYSTEMS PLAN - AREA D

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

POWER & AUXILIARY SYSTEMS PLAN - AREA D NOTES	
KEY NOTE	DESCRIPTION
1	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM.
2	REPLACE EXISTING PANEL AND REFEED AS INDICATED ON THE DEMOLITION ONE LINE DIAGRAM AND ONE LINE DIAGRAM. CUT AND PATCH EXISTING WALL AS NECESSARY.
3	CIRCUIT TO AN EXISTING SPARE 120V, 20A, 1P CIRCUITBREAKER IN THE PANELBOARD INDICATED.
4	ROUTE DATA CABLES TO THE NEAREST DATA RACK. COORDINATE LOCATION WITH THE OWNERS REPRESENTATIVE.

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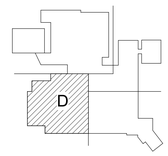
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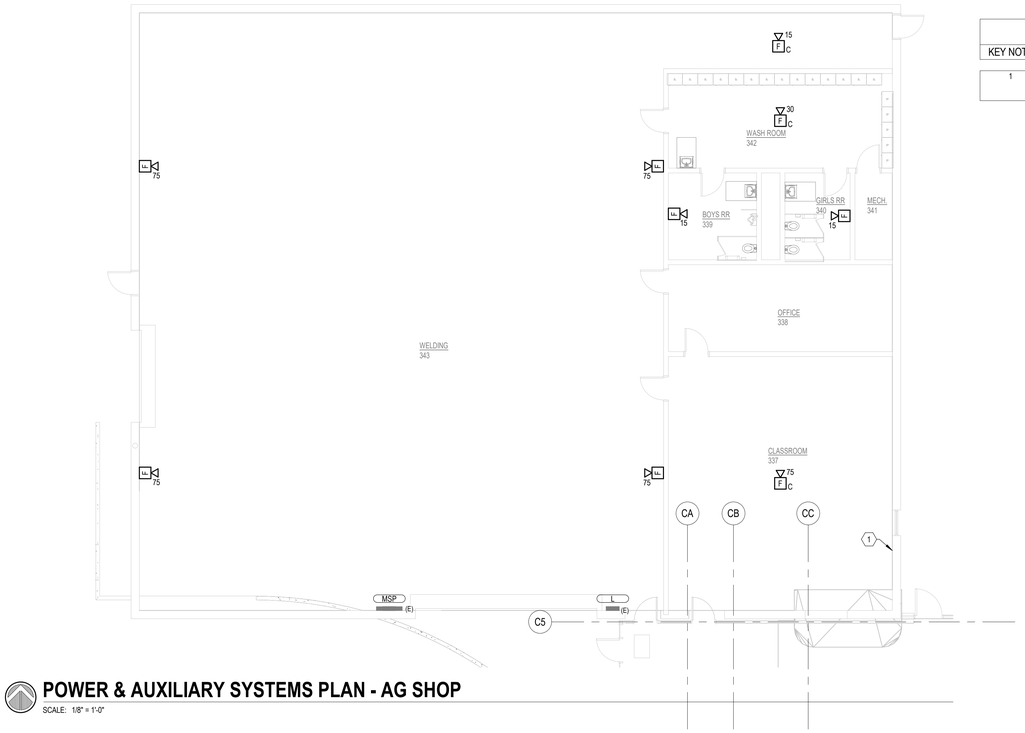
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Power & Auxiliary Systems Plan - Area D

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POWER & AUXILIARY SYSTEMS PLAN - AG SHOP

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

POWER & AUXILIARY SYSTEMS PLAN - AG SHOP NOTES	
KEY NOTE	DESCRIPTION
1	LOCATION OF EXISTING WALL MOUNTED DATA RACK. A NEW FIBER LINE IS TO BE ROUTED TO THIS RACK FROM THE DATA RACK IN JAN 306. SEE THE POWER & AUXILIARY SYSTEMS - AREA C PLAN FOR ADDITIONAL INFORMATION.

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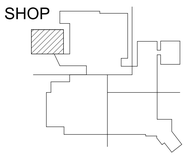
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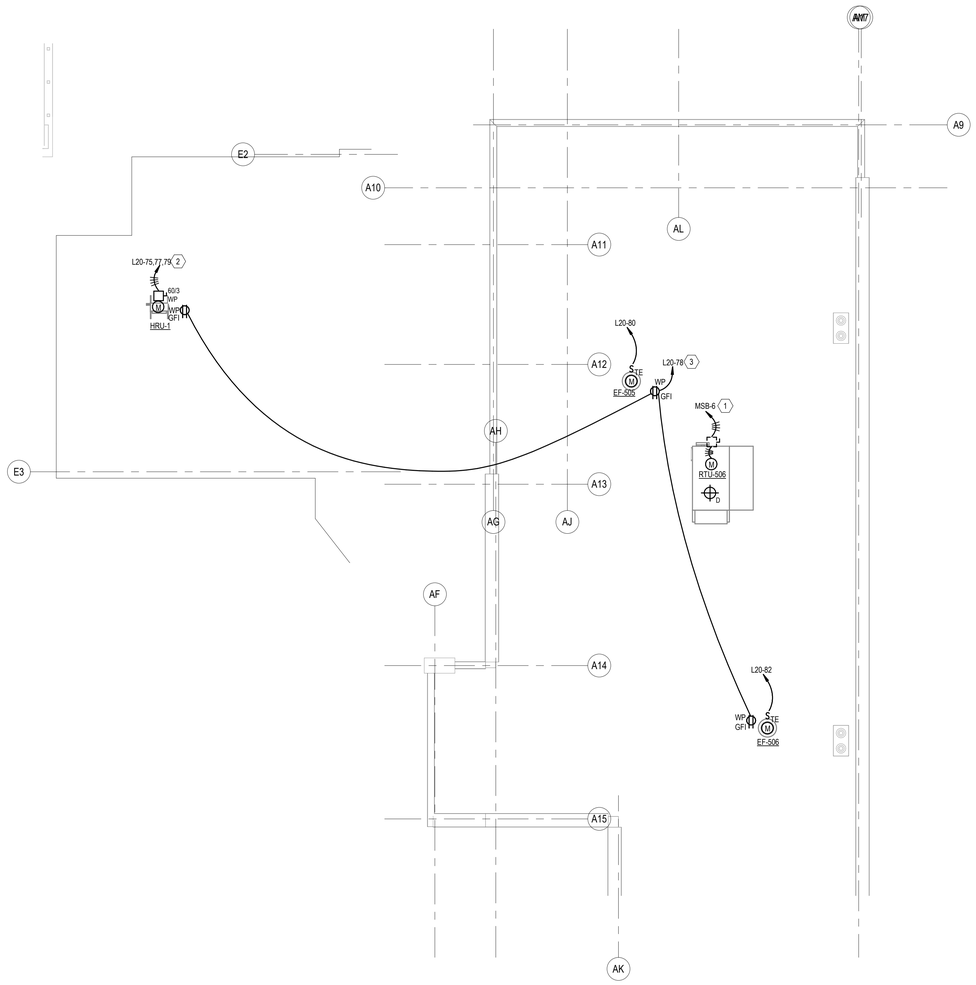
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Power & Auxiliary Systems Plan - Ag Shop

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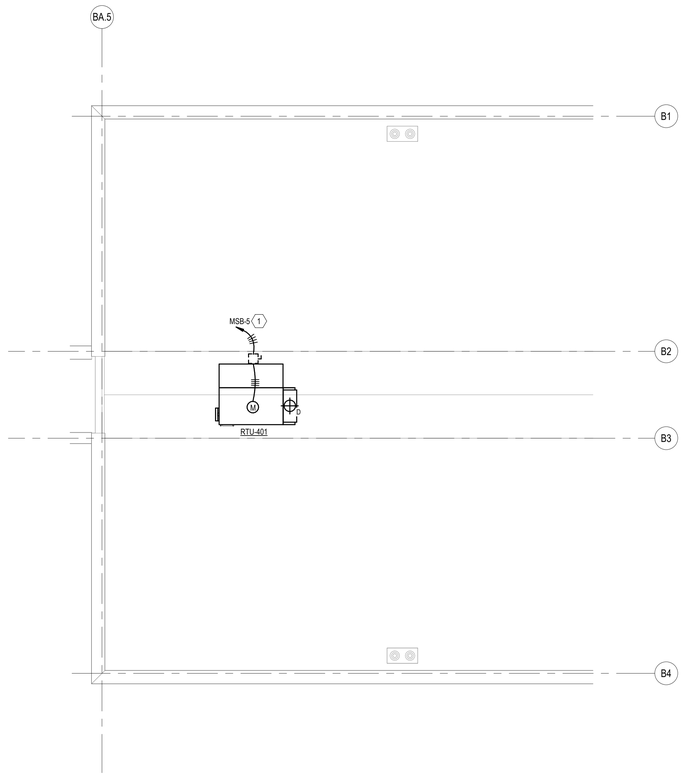
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Roof Power & Auxiliary Systems Plan - Area A

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

ROOF POWER & AUXILIARY SYSTEMS PLAN - AREA A/B NOTES	
KEY NOTE	DESCRIPTION
1	SEE THE ONE LINE DIAGRAM FOR CONDUIT/ CONDUCTOR AND CIRCUIT BREAKER SIZE.
2	CIRCUIT VIA (3) #4'S & (1) #8 GROUND IN A 1" CONDUIT.
3	MOUNT RECEPTACLES ON UNISTRUT ADJACENT TO ROOF TOP MECHANICAL EQUIPMENT.



Roof Power & Auxiliary Systems Plan - Area B

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

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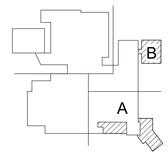
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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

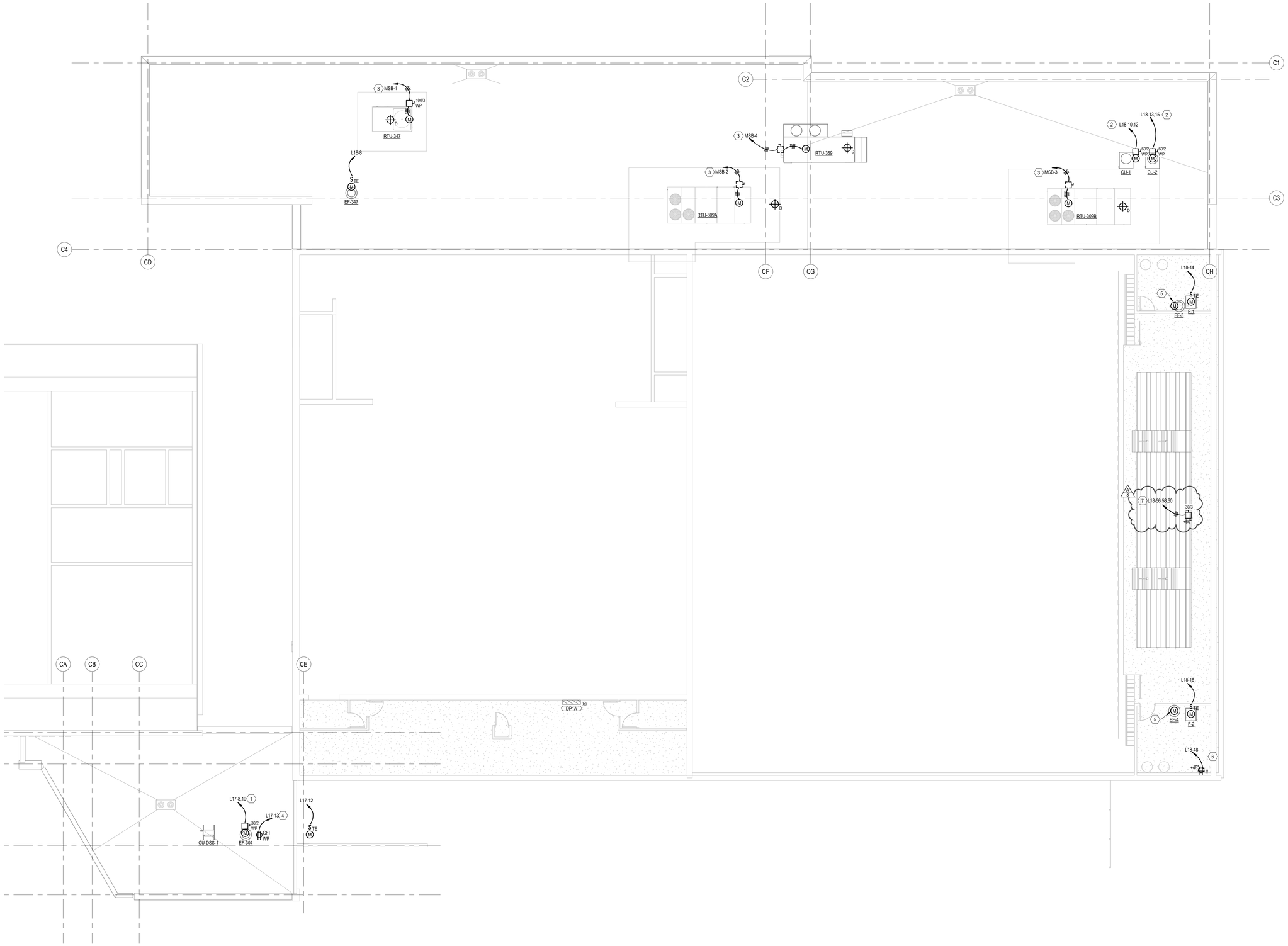
CE No.: 380-001-21

November 18, 2022

Roof Power & Auxiliary Systems Plan - Area A/B

E2.21

Plot Time Stamp: 5/8/2023 12:12:22 PM
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Roof Power & Auxiliary Systems Plan - Area C

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

ROOF POWER & AUXILIARY SYSTEMS PLAN - AREA C NOTES	
KEY NOTE	DESCRIPTION
1	PROVIDE ALL NECESSARY INTERCONNECTION BETWEEN CONDENSING UNIT AND THE SPLIT SYSTEM UNIT IN THE BUILDING. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR.
2	CIRCUIT VIA (2) #8'S & (1) #10 GROUND IN A 3/4" CONDUIT.
3	SEE THE ONE LINE DIAGRAM FOR CONDUIT/ CONDUCTOR AND CIRCUIT BREAKER SIZE.
4	MOUNT RECEPTACLE ON UNISTRUT ADJACENT TO ROOF TOP MECHANICAL EQUIPMENT.
5	RECONNECT NEW EQUIPMENT TO THE EXISTING CIRCUIT THAT PREVIOUSLY FED THE REMOVED EQUIPMENT IN THIS AREA.
6	LOCATION OF WALL MOUNTED DATA RACK. ALL TELECOM CABLING IN THIS AREA TO BE ROUTED TO THIS POINT. SEE THE SYSTEMS RISER DIAGRAM AND DATA RACK RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7	ELECTRICAL CONNECTION TO MOTORIZED BLEACHERS. COORDINATE CONNECTION WITH THE BLEACHER MOTOR SUPPLIER/ INSTALLER.

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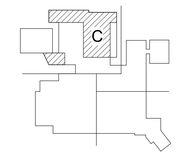
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SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
A - 3	12/14/2022	ADDENDUM #3



Key Plan

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

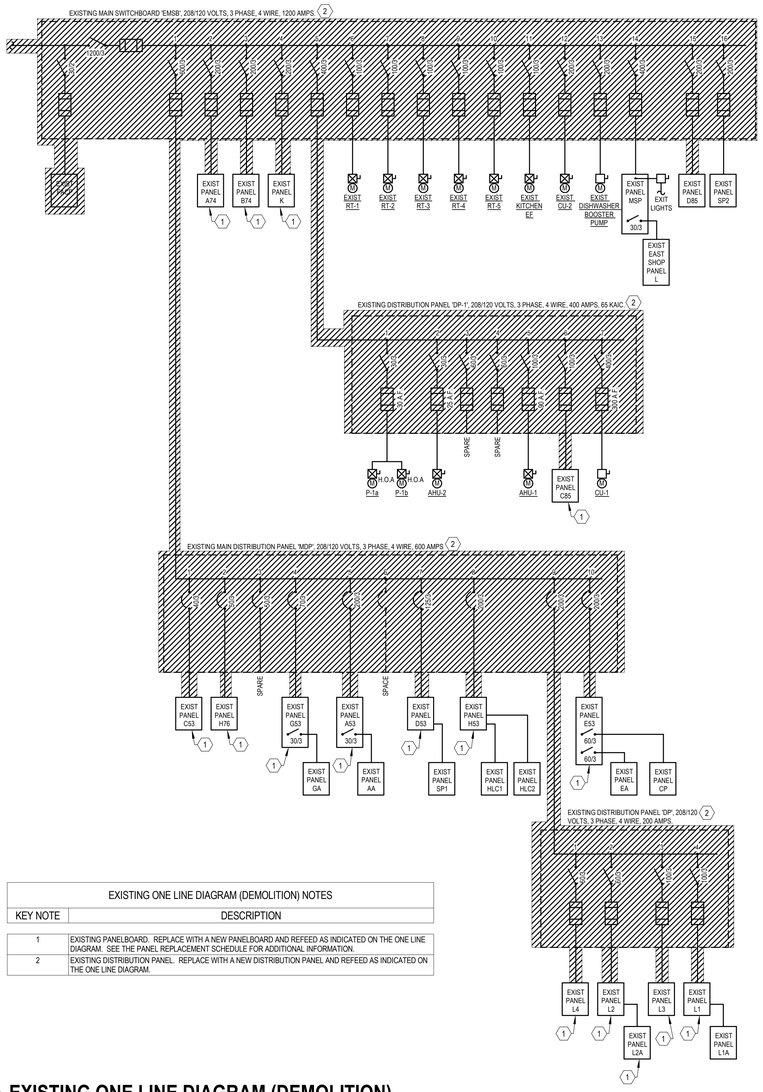
CE No.: 380-001-21

November 18, 2022

Roof Power & Auxiliary Systems Plan - Area C

E2.22

Plot Time Stamp: 5/8/2023 12:12:24 PM
File Location/Name: BIM 360://380-001-21 Heartland Community Schools/380001 - HCSA - E21.rvt

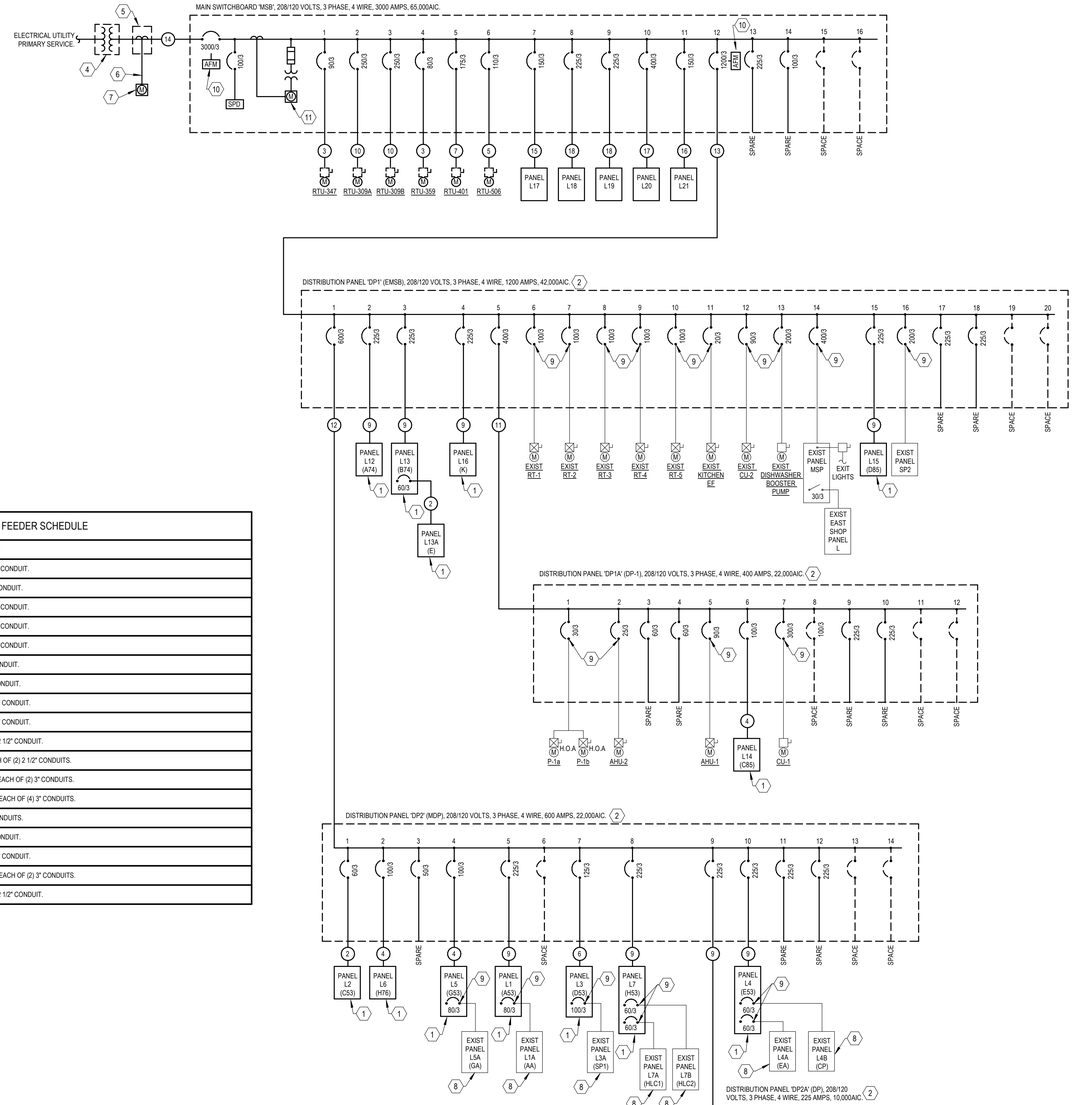


EXISTING ONE LINE DIAGRAM (DEMOLITION) NOTES	
KEY NOTE	DESCRIPTION
1	EXISTING PANELBOARD. REPLACE WITH A NEW PANELBOARD AND REFEED AS INDICATED ON THE ONE LINE DIAGRAM. SEE THE PANEL REPLACEMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2	EXISTING DISTRIBUTION PANEL. REPLACE WITH A NEW DISTRIBUTION PANEL AND REFEED AS INDICATED ON THE ONE LINE DIAGRAM.

EXISTING ONE LINE DIAGRAM (DEMOLITION)

SCALE: 12" = 1'-0"

FEEDER SCHEDULE	
MARK	FEEDER DESCRIPTION
1	(3) #3'S & (1) #8 GROUND IN 1 1/2" CONDUIT.
2	(4) #6'S & (1) #10 GROUND IN 1" CONDUIT.
3	(3) #4'S & (1) #8 GROUND IN 1 1/4" CONDUIT.
4	(4) #3'S & (1) #8 GROUND IN 1 1/2" CONDUIT.
5	(3) #2'S & (1) #6 GROUND IN 1 1/2" CONDUIT.
6	(4) #1'S & (1) #6 GROUND IN 2" CONDUIT.
7	(3) 2/0'S & (1) #6 GROUND IN 2" CONDUIT.
8	(4) 3/0'S & (1) #6 GROUND IN 2 1/2" CONDUIT.
9	(4) 4/0'S & (1) #4 GROUND IN 2 1/2" CONDUIT.
10	(3) 250 MCM & (1) #4 GROUND IN 2 1/2" CONDUIT.
11	(4) 3/0'S & (1) #3 GROUND IN EACH OF (2) 2 1/2" CONDUITS.
12	(4) 350 MCM & (1) #1 GROUND IN EACH OF (2) 3" CONDUITS.
13	(4) 350 MCM & (1) 3/0 GROUND IN EACH OF (4) 3" CONDUITS.
14	(4) 500 MCM IN EACH OF (8) 3" CONDUITS.
15	(4) 1/0'S & (1) #6 GROUND IN 2" CONDUIT.
16	(4) 4/0'S & (1) #3 GROUND IN 2 1/2" CONDUIT.
17	(4) 350 MCM & (1) 2/0 GROUND IN EACH OF (2) 3" CONDUITS.
18	(4) 250 MCM & (1) #3 GROUND IN 2 1/2" CONDUIT.



ONE LINE DIAGRAM

SCALE: 12" = 1'-0"

REPLACEMENT PANEL SCHEDULE									BREAKERS									
NAME	LOCATION	PANEL TYPE	VOLTAGE	AMPACITY	MLO/BREAKER	MOUNTING	MIN AIC	POLES	15A/1P	20A/1P	20A/2P	25A/1P	30A/1P	30A/2P	30A/3P	60A/2P	60A/3P	OTHER	REMARKS
L1	CHASE 19	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	200	MLO	SURFACE	10,000	42		23			1		1			1-80 AMP, 3POLE	
L2	OLD GYM 102	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	RECESSED	10,000	42	2	4			2						
L3	STAGE 102C	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	RECESSED	10,000	60		28		1	6			2	2	1-100 AMP, 3POLE	PROVIDE A SINGLE SECTION PANELBOARD
L4	JAN 123	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	SURFACE	10,000	60	5	16		3	11			4			PROVIDE A SINGLE SECTION PANELBOARD
L5	STORAGE 3A	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	SURFACE	10,000	42		16			4					1-80AMP, 3POLE	
L6	STAGE 102C	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	SURFACE	10,000	42			5								
L7	NETWORK 116	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	SURFACE	10,000	42	5	14			3		2		2		
L8	JAN 212	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	SURFACE	10,000	42		28								1-50 AMP, 2 POLE	
L9	JAN 13	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	SURFACE	10,000	42		12									
L10	ART 203	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	RECESSED	10,000	42		16	1			4				2-50 AMP, 2 POLE	
L11	LOWER LEVEL MECH RM	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	SURFACE	10,000	42		6								2-20AMP, 3POLE	
L12	ELEC 226	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	SURFACE	42,000	42		39	2	1							
L13	ELEC 226	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	SURFACE	42,000	42		27	1			3		1	1	1-40AMP, 2POLE; 1-50AMP, 2POLE	
L13A	STG 237A	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	RECESSED	10,000	42		18	1				1				
L14	PROJECT/ LIGHT 326	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	100	MLO	RECESSED	10,000	42		26	2								
L15	CORRIDOR 310	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	RECESSED	10,000	84		27	11	1	1					3-20 AMP, 3 POLE; 3-50 AMP, 3 POLE	PROVIDE A TWO SECTION PANELBOARD
L16	KITCHEN 227	LIGHTING & APPLIANCE	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	RECESSED	42,000	42		10				2	1			1-15AMP, 3 POLE; 2-20AMP, 3POLE; 1-50AMP, 3 POLE;1-70AMP, 3 POLE; 1-90AMP, 2POLE; 1-100AMP, 2POLE	
DP1	ELEC 226	DISTRIBUTION	208Y/120 VOLTS, 3 PHASE, 4 WIRE	1200	MCB	SURFACE													SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMAITON
DP1A	2ND FLR MECH ROOM	DISTRIBUTION	208Y/120 VOLTS, 3 PHASE, 4 WIRE	400	MLO	SURFACE													SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMAITON
DP2	LOWER LEVEL MECH RM	DISTRIBUTION	208Y/120 VOLTS, 3 PHASE, 4 WIRE	600	MLO	SURFACE													SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMAITON
DP2A	LOWER LEVEL MECH RM	DISTRIBUTION	208Y/120 VOLTS, 3 PHASE, 4 WIRE	225	MLO	SURFACE													SEE THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMAITON

*SEE THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

ONE LINE DIAGRAM NOTES	
KEY NOTE	DESCRIPTION
1	REPLACE EXISTING PANEL AND REFEED AS INDICATED. RECONNECT EXISTING REMAINING BRANCH CIRCUITS AS NECESSARY. EXTEND EXISTING WIRING AS NECESSARY. PANEL TO BE RENAMED AS INDICATED ON LABEL. PREVIOUS PANEL NAME IS SHOWN IN PARENTHESES. PROVIDE A NEW, TYPED CIRCUIT BREAKER DIRECTORY WITH PANEL.
2	REPLACE EXISTING DISTRIBUTION PANEL AS INDICATED. RENAME THE PANEL AS INDICATED.PREVIOUS PANEL NAME IS SHOWN IN PARENTHESES. RECONNECT EXISTING REMAINING BRANCH CIRCUITS AS NECESSARY. EXTEND EXISTING WIRING AS NECESSARY.
4	UTILITY COMPANY PAD-MOUNTED TRANSOFRMER. SEE THE TRANSFORMER PAD DETAIL FOR ADDITIONAL INFORMATION. COORDINATE ALL SERVICE REQUIREMENTS WITH THE UTILITY COMPANY AND PROVIDE ALL NECESSARY MATERIALS AND LABOR AS NECESSARY FOR ELECTRICAL SERVICE.
5	CT CABINET. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY.
6	1" CONDUIT BETWEEN CT AND METER.
7	UTILITY COMPANY METER. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY.
8	EXISTING PANEL TO BE RENAMED AS INDICATED. PROVIDE A NEW PANEL LABEL ON THE EXISTING PANEL. PREVIOUS PANEL NAME IS SHOWN IN PARENTHESES.
9	DISCONNECT FEEDER FROM EXISTING PANEL AND RECONNECT TO NEW PANEL. EXTEND WIRING AS NECESSARY.
10	PROVIDE MAIN CIRCUIT BREAKER WITH CODE REQUIRED ENERGY REDUCING MAINTENANCE SWITCH.
11	PROVIDE A DIGITAL POWER METER PER SPECIFICATION REQUIREMENTS.

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SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

November 18, 2022

Electrical One Line Diagrams

E3.01

Plot Time Stamp: 5/8/2023 12:12:26 PM
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LIGHTING FIXTURE SCHEDULE

Fixture Type	Manufacturers	Catalog Numbers	Description	Volt	VA	Mounting	Remarks
A	LITHONIA	2GTL-4-48L-A12125-GZ1-LP840	RECESSED 2X4	MVOLT	36	RECESSED	PROVIDE FIXTURE TYPE "A1" WITH AN EMERGENCY DRIVER. CONNECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
B	LITHONIA	GTL-4-33L-A12125-GZ1-LP840	RECESSED 1X4	MVOLT	29	RECESSED	PROVIDE FIXTURE TYPE "B1" WITH AN EMERGENCY DRIVER. CONNECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
C	LITHONIA	LL8-800LM-80CRI-40K-MIN10-ZT-MVOLT-WH	PENDANT MOUNTED FIXTURE	UNV	66	PENANT	PENDANT MOUNT SO THAT BOTTOM OF FIXTURE IS 11'-6" AFF UNLESS OTHERWISE NOTED. PROVIDE FIXTURE TYPE "C1" WITH AN EMERGENCY DRIVER. CONNECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
D	LITHONIA	WDGE2 LED P1 40K 80CRI VF MVOLT E4WH PE DBLXD	WALL MONTED EXTERIOR FIXTURE	UNV	10	WALL MOUNT	WALL MOUNT FIXTURE 8'-0" AFG. UNLESS OTHERWISE NOTED. CONNECT SO THAT FIXTURE ILLUMINATES IN A POWER LOSS SENARIO AS WELL AS PHOTOCELL CONTROL.
EXIT	LITHONIA	LE-P-W-R-120/277-EL N	EXIT FIXTURE	MVLT	5	SURFACE MOUNT	RED LED, RED LETTERS, WHITE BACKGROUND. PROVIDE MOUNTING AS SHOWN ON THE DRAWINGS.
EMER	LITHONIA	EU2L M12	EMERGENCY FIXTURE	MVLT	5	RECESSED CEILING MOUNT	PROVIDE FIXTURE WITH WIRE GUARD WHEN INDICATED ON PLANS. MOUNT FIXTURE 1'-0" BELOW THE FINISH CEILING UNLESS OTHERWISE NOTED.
G	LITHONIA	LDN4-30LM-40K-L04-AR-LSS-MVOLT	RECESSED 4" DOWNLIGHT	MVOLT	40	RECESSED	PROVIDE FIXTURE TYPE "C1" WITH AND EMERGENCY DRIVER. CONECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
H	LITHONIA	CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH	PENDANT MOUNTED FIXTURE	UNV	71	WALL MOUNTED	PENDANT MOUNT SO THAT FIXTURE IS EJUST BELOW ADJACENT DUCTWORK/ PIPING. PROVIDE FIXTURE TYPE "H1" WITH AN EMERGENCY DRIVER. CONNECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
L	LITHONIA	ICO CYL 40/30 6WR LSS 40D MVOLT EZ10 PM DWHG	SURFACE MOUNTED CYLIDER	UNV	29	PENDANT MOUNT	PENDANT MOUNT SO THE BOTTOM OF THE LIGHT FIXTURE IS FLUSH WITH THE BOTTOM OF THE ADJACENT DUCT WORK.
M	MARK	SL4L-LOP-16'-FLP-SPEC-80CRI-40K-1000LMF-NODIM-120	4" RECESSED LINEAR	120	160	RECESSED	PROVIDE FIXTURE TYPE "M1" WITH AN EMERGENCY DRIVER. CONNECT AN UNSWITCHED HOT CONDUCTOR TO THE EMERGENCY DRIVER FOR SENSING.
N	MARK	SL4L-LOP-**-FLP-SPEC-80CRI-40K-1000LMF-NODIM-120	4" RECESSED LINEAR	120	6 W/FT	PENDANT MOUNT	FIELD MEASURE TO PROVIDE LENGTH OF FIXTURE TO RUN THE ENTIRE WIDTH OF THE DISPLAY CASE.
P	LITHONIA	RSXF1 LED P2 40K WFL MVOLT AAWB PE DBLXD	WALL MOUNTED FLOOD LIGHT	MVOLT	72	WALL MOUNTED	WALL MOUNT FIXTURE 13'-0" AFG UNLESS OTHERWISE NOTED.

Branch Panel: L17

Location: ELECT. 302 **Volts:** 120/208 Wye **A.I.C. Rating:** 42,000
Supply From: MSB **Phases:** 3
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: LIGHTING &... **MCB Rating:** Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		C		Load Name	Poles	Rating	CKT
1	30 A	3	EH-300A	2161 VA	2161 VA					EH-300B	3	30 A	2
3	--	--	--			2161 VA	2161 VA			--	--	--	4
5	--	--	--					2161 VA	2161 VA	--	--	--	6
7	20 A	3	EH-303	1081 VA	1976 VA					CU-DSS-1	2	25 A	8
9	--	--	--			1081 VA	1976 VA			--	--	--	10
11	--	--	--					1081 VA	800 VA	EF-304	1	20 A	12
13	20 A	1	RCPT ROOF	200 VA	400 VA					RCPT LOBBY 303	1	20 A	14
15	20 A	1	LTG CONCESSIONS, LOBBY			1146 VA	160 VA			LTG VESTIBULE 300	1	20 A	16
17	20 A	1	RCPT ELEC 302, VESIBULE					800 VA	600 VA	CONCESSIONS DISHWASHER	1	20 A	18
19	20 A	1	RCPT CONCESSIONS 304	400 VA	500 VA					CONCESSIONS DISPOSAL	1	20 A	20
21	20 A	1	RCPT CONCESSIONS 304			400 VA	400 VA			RCPT CONCESSIONS 304	1	20 A	22
23	20 A	1	RCPT CONCESSIONS 304					200 VA	400 VA	RCPT CONCESSIONS 304	1	20 A	24
25	20 A	1	RCPT CONCESSIONS 304	400 VA	200 VA					CONCESSIONS MICROWAVE	1	20 A	26
27	20 A	1	RCPT CONCESSIONS MONITORS			400 VA	200 VA			RCPT CONCESSIONS 304	1	20 A	28
29	20 A	1	RCPT CONCESSIONS MONITORS					600 VA	200 VA	RCPT CONCESSIONS 304	1	20 A	30
31	20 A	1	RCPT CONCESSIONS 304	200 VA	200 VA					CONCESSIONS HEAT CAB	1	20 A	32
33	50 A	2	CONCESSIONS OVEN			500 VA	500 VA			CONCESSIONS CARD READER	1	20 A	34
35	--	--	--					500 VA	200 VA	VESTIBULE 300 DOOR ACCESS	1	20 A	36
37	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	38
39	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	40
41	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	42
			Total Load:	11879 VA		13085 VA		11703 VA					
			Total Amps:	99 A		109 A		98 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	6000 VA	62.50%	3750 VA		
RCPT	5200 VA	125.00%	6500 VA	**Total Conn. Load:**	36668 VA
LTG	1306 VA	125.00%	1633 VA	**Total Est. Demand:**	36045 VA
MECH	24162 VA	100.00%	24162 VA		
				Total Est. Demand:	100 A

Branch Panel: L18

Location: TRAINING 349 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: MSB **Phases:** 3
Mounting: RECESSED **Wires:** 4 **Mains Rating:** 225 A
Enclosure: LIGHTING &... **MCB Rating:** Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		C		Load Name	Poles	Rating	CKT
1	30 A	3	EH-363	2161 VA	2161 VA					EH-354	3	30 A	2
3	--	--	--			2161 VA	2161 VA			--	--	--	4
5	--	--	--					2161 VA	2161 VA	--	--	--	6
7	30 A	3	EH-345	2161 VA	1400 VA					EF-347	1	20 A	8
9	--	--	--			2161 VA	996 VA			CU-1	2	40 A	10
11	--	--	--					2161 VA	996 VA	--	--	--	12
13	40 A	2	CU-2	996 VA	1728 VA					F-1	1	15 A	14
15	--	--	--			996 VA	2328 VA			F-2	1	15 A	16
17	20 A	1	LTG Room 357, 355					853 VA	1142 VA		1	20 A	18
19	20 A	1	LTG RR/ SHOWER 361	765 VA	765 VA					LTG RR/ SHOWER 360	1	20 A	20
21	20 A	1	WEIGHT ROOM-1 347-1			1137 VA	200 VA			RCPT WEIGHT ROOM	1	20 A	22
23	20 A	1	RCPT LOCKER ROOM 362					1000 VA	200 VA	RCPT WEIGHT ROOM	1	20 A	24
25	20 A	1	RCPT RESTROOM 361	200 VA	1400 VA					RCPT LOCKER ROOM 362	1	20 A	26
27	20 A	1	RCPT RESTROOM 360			200 VA	1000 VA			RCPT WEIGHT ROOM	1	20 A	28
29	20 A	1	RCPT LOCKER ROOM 359					800 VA	1400 VA	RCPT WEIGHT ROOM	1	20 A	30
31	20 A	1	RCPT REST ROOM 358	200 VA	800 VA					RCPT WEIGHT ROOM	1	20 A	32
33	20 A	1	RCPT REST ROOM 356			200 VA	200 VA			WATER COOLER	1	20 A	34
35	20 A	1	Power CORRIDOR 346					2400 VA	800 VA	RCPT REST ROOMS	1	20 A	36
37	20 A	1	RCPT OFFICE 348	600 VA	200 VA					RCPT TRAINING 349	1	20 A	38
39	20 A	1	RCPT TRAINING 349			1000 VA	6484 VA			VEST 345 CARD ACCESS	1	20 A	40
41	20 A	1	VESTIBULE 354 CARD ACCESS					6484 VA	6484 VA	VEST 363 CARD ACCESS	1	20 A	42
43	20 A	1	RCPT LOCKER ROOM 359	1400 VA	200 VA					RCPT OFFICE 348 DATA RACK	1	20 A	44
45	20 A	1	RCPT WEIGHT ROOM MONITORS			600 VA	600 VA			RCPT WEIGHT ROOM MONITORS	1	20 A	46
47	20 A	1	RCPT WEIGHT ROOM MONITORS					600 VA	200 VA	RCPT UPPER DECK DATA RACK	1	20 A	48
49	25 A	2	OVERHEAD DOOR	1248 VA	792 VA					BLEACHERS	3	15 A	50
51	--	--	--			1248 VA	792 VA			--	--	--	52
53	15 A	3	BLEACHERS					792 VA	792 VA	--	--	--	54
55	--	--	--	792 VA	792 VA					BLEACHERS	3	15 A	56
57	--	--	--			792 VA	792 VA			--	--	--	58
59	20 A	1	Spare					100 VA	792 VA	--	--	--	60
61	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	62
63	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	64
65	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	66
67	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	68
69	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	70
71	--	1	Space					--	1000 VA	Spare	1	20 A	72
73	--	1	Space	--	1000 VA					Spare	1	20 A	74
75	--	1	Space			--	1000 VA			Spare	1	20 A	76
77	--	1	Space					--	--	Space	1	--	78
79	--	1	Space	--	--					Space	1	--	80
81	--	1	Space			--	--			Space	1	--	82
83	--	1	Space					--	--	Space	1	--	84
			Total Load:	25763 VA		31050 VA		35320 VA					
			Total Amps:	215 A		266 A		301 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	13100 VA	62.50%	8188 VA		
RCPT	16200 VA	101.08%	16375 VA	**Total Conn. Load:**	92133 VA
LTG	4662 VA	125.00%	5828 VA	**Total Est. Demand:**	88561 VA
MECH	58171 VA	100.00%	58171 VA		
				Total Est. Demand:	246 A

Branch Panel: L19

Location: CORRIDOR 401 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: MSB **Phases:** 3
Mounting: RECESSED **Wires:** 4 **Mains Rating:** 225 A
Enclosure: LIGHTING &... **MCB Rating:** Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		C		Load Name	Poles	Rating	CKT
1	20 A	1	RCPT CLASSROOM 403	1200 VA	1200 VA					RCPT CLASSROOM 405	1	20 A	2
3	20 A	1	RCPT CLASSROOM 403			1000 VA	1200 VA			RCPT CLASSROOM 405	1	20 A	4
5	20 A	1	RCPT CLASSROOM 403					800 VA	1200 VA	RCPT CLASSROOM 405	1	20 A	6
7	20 A	1	VESTIBULE 400 CARD ACCESS	500 VA	800 VA					RCPT CLASSROOM 403/405	1	20 A	8
9	20 A	1	RCPT CLASSROOM 404			1000 VA	1200 VA			Power CLASSROOM 402	1	20 A	10
11	20 A	1	RCPT CLASSROOM 404					400 VA	400 VA	RCPT CLASSROOM 402	1	20 A	12
13	20 A	1	RCPT CLASSROOM 404	600 VA	400 VA					RCPT CLASSROOM 402	1	20 A	14
15	20 A	1	RCPT CLASSROOM 402/404			800 VA	1760 VA			LTG CLASSROOM 404	1	20 A	16
17	20 A	1	LTG CLASSROOM 405					862 VA	200 VA	RCPT CLASSROOM 405	1	20 A	18
19	20 A	1	RCPT CLASSROOM 404	200 VA	200 VA					RCPT CLASSROOM 403	1	20 A	20
21	20 A	1	RCPT CLASSROOM 402			200 VA	1600 VA			BOTTLE FILLER (GFI BREAKER)	1	20 A	22
23	20 A	1	BOTTLE FILLER CHILLER					600 VA	1200 VA	BOTTLE FILLER CHILLER	1	20 A	24
25	30 A	3	EH-400	2161 VA	4379 VA					VBR-405	2	45 A	26
27	--	--	--			2161 VA	4379 VA			--	--	--	28
29	--	--	--					2161 VA	4379 VA	VBR-404	2	45 A	30
31	20 A	2	VBR-401	1872 VA	4379 VA					--	--	--	32
33	--	--	--			1872 VA	2808 VA			VBR-402	2	30 A	34
35	30 A	2	VBR-403					2808 VA	2808 VA	--	--	--	36
37	--	--	--	2808 VA	500 VA					CORRIDOR 401 CARD ACCESS	1	20 A	38
39	20 A	1	RCPT SERVER RACK			600 VA	600 VA			RCPT CLASSROOM 403 MONITOR	1	20 A	40
41	20 A	1	RCPT CLASSROOM 405 MONITOR					600 VA	600 VA	RCPT CLASSROOM 404 MONITOR	1	20 A	42
43	20 A	1	RCPT CLASSROOM 402 MONITOR	600 VA	1000 VA					Spare	1	20 A	44
45	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	46
47	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	48
49	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	50
51	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	52
53	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	54
55	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	56
57	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	58
59	--	1	Space					--	--	Space	1	--	60
61	--	1	Space	--	--					Space	1	--	62
63	--	1	Space			--	--			Space	1	--	64
65	--	1	Space					--	--	Space	1	--	66
67	--	1	Space	--	--					Space	1	--	68
69	--	1	Space			--	--			Space	1	--	70
71	--	1	Space					--	--	Space	1	--	72
73	--	1	Space	--	--					Space	1	--	74
75	--	1	Space			--	--			Space	1	--	76
77	--	1	Space					--	--	Space	1	--	78
79	--	1	Space	--	--					Space	1	--	80
81	--	1	Space			--	--			Space	1	--	82
83	--	1	Space					--	--	Space	1	--	84
			Total Load:	26798 VA		27180 VA		23018 VA					
			Total Amps:	228 A		231 A		192 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	15000 VA	62.50%	9375 VA		
RCPT	49490 VA	75.13%	37181 VA	**Total Conn. Load:**	76996 VA
LTG	2622 VA	125.00%	3278 VA	**Total Est. Demand:**	59718 VA
MECH	9884 VA	100.00%	9884 VA		
				Total Est. Demand:	166 A

Branch Panel: L20

Location: MECH/ CUST. 503 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: MSB **Phases:** 3
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: LIGHTING &... **MCB Rating:** Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		C		Load Name	Poles	Rating	CKT
1	20 A	1	LTG RESTROOMS DIRECTOR CORR.	484 VA	277 VA					LTG CHANGING 512	1	20 A	2
3	20 A	1	RCPT			600 VA	991 VA			LTG 3 - 4 YEAR OLDS-1 503-1	1	20 A	4
5	20 A	1	RCPT					600 VA	800 VA	RCPT	1	20 A	6
7	20 A	1	RCPT	1000 VA	1400 VA					RCPT Room 512	1	20 A	8
9	20 A	1	RCPT			600 VA	200 VA			MECH LAUNDRY 503	1	20 A	10
11	20 A	1	MECH					800 VA	1200 VA	RCPT	1	20 A	12
13	20 A	1	MECH	200 VA	200 VA					MECH	1	20 A	14
15	20 A	1	MECH			400 VA	200 VA			MECH	1	20 A	16
17	20 A	1	MECH Room 506					1700 VA	600 VA	MECH Room 506	1	20 A	18
19	20 A	1	MECH Room 506	600 VA	200 VA					MECH	1	20 A	20
21	50 A	2	RANGE			4000 VA	500 VA			MECH DRYER	2	30 A	22
23	--	--	--					4000 VA	500 VA	--	--	--	24
25	50 A	2	DISHWASHER	4368 VA	600 VA					MECH 3-4 YEAR OLD 505	1	20 A	26
27	--	--	--			4368 VA	1400 VA			MECH	1	20 A	28
29	20 A	1	CARD ACCESS					100 VA	100 VA	DOOR ACCESS	1	20 A	30
31	40 A	3	EWH-1	3333 VA	1872 VA					VBR-511	2	20 A	32
33	--	--	--			3333 VA	1872 VA			--	--	--	34
35	--	--	--					3333 VA	1560 VA	VBR-511A	2	15 A	36
37	15 A	2	VBR-509	624 VA	1560 VA					--	--	--	38
39	--	--	--			624 VA	1560 VA			VBR-512	2	15 A	40
41	15 A	2	VBR-510					624 VA	1560 VA	--	--	--	42
43	--	--	--	624 VA	936 VA					VBR-501	2	15 A	44
45	15 A	2	VBR-508			1560 VA	936 VA			--	--	--	46
47	--	--	--					1560 VA	2184 VA	VBR-506	2	25 A	48
49	30 A	2	VBR-505	3120 VA	2184 VA					--	--	--	50
51	--	--	--			3120 VA	1081 VA			EH-500	3	20 A	52
53	20 A	3	EH-502					721 VA	1081 VA	--	--	--	54
55	--	--	--	721 VA	1081 VA					--	--	--	56
57	--	--	--			721 VA	1081 VA			EH-504	3	20 A	58
59	20 A	3	EH-508A					721 VA	1081 VA	--	--	--	60
61	--	--	--	721 VA	1081 VA					--	--	--	62
63	--	--	--			721 VA	721 VA			EH-505C	3	20 A	64
65	20 A	1	HWCP-1					600 VA	721 VA	--	--	--	66
67	20 A	1	FACP	500 VA	721 VA					--	--	--	68
69													70
71													72
73													74
75	70 A	3	HRU-1			5284 VA							76
77	--	--	--					5284 VA	600 VA	RCPT ROOF	1	20 A	78
79	--	--	--	5284 VA	1100 VA					EF-505	1	20 A	80
81	20 A	1	Spare			1000 VA	1100 VA			EF-506	1	15 A	82
83	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	84
85	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	86
87	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	88
89	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	90
91	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	92
93	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	94
95	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	96
97	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	98
99	--	1	Space			--	--			Space	1	--	100
101	--	1	Space					--	--	Space	1	--	102
103	--	1	Space	--	--					Space	1	--	104
105	--	1	Space			--	--			Space	1	--	106
107	--	1	Space					--	--	Space	1	--	108
109	--	1	Space	--	--					Space	1	--	110
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115	--	1	Space	--	--					Space	1	--	116
117	--	1	Space			--	--			Space	1	--	118
119	--	1	Space					--	--	Space	1	--	120
121	--	1	Space	--	--					Space	1	--	122
123	--	1	Space			--	--			Space	1	--	124
125	--	1	Space					--	--	Space	1	--	126
			Total Load:	40790 VA		41972 VA		38029 VA					
			Total Amps:	343 A		353 A		317 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	500 VA	100.00%	500 VA		
Spare	17000 VA	62.50%	10625 VA	**Total Conn. Load:**	120792 VA
RCPT	7400 VA	125.00%	9250 VA	**Total Est. Demand:**	116705 VA
LTG	1752 VA	125.00%	2190 VA		
MECH	94140 VA	100.00%	94140 VA	**Total Est. Demand:**	324 A

Branch Panel: L21

Location: CORRIDOR 128 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: MSB **Phases:** 3
Mounting: RECESSED **Wires:** 4 **Mains Rating:** 225 A
Enclosure: LIGHTING &... **MCB Rating:** Main Lug Only (MLO)

CKT	Rating	Poles	Load Name	A		B		C		Load Name	Poles	Rating	CKT
1	30 A	3	EH-217A	2161 VA	2161 VA					EH-217B	3	30 A	2
3	--	--	--			2161 VA	2161 VA			--	--	--	4
5	--	--	--					2161 VA	2161 VA	--	--	--	6
7	15 A	2	VRF'S	1380 VA	1006 VA					VRF'S	2	15 A	8
9	--	--	--			1380 VA	1006 VA			--	--	--	10
11	20 A	2	BC-1					250 VA	1141 VA	LTG Room 100C, 100, 100B, 100A	1	20 A	12
13	--	--	--	250 VA	400 VA					RCPT WORK RM 100C	1	20 A	14
15	20 A	1	MECH CORRIDOR WATER...			200 VA	400 VA			RCPT BUS DEV 100B	1	20 A	16
17	20 A	1	RCPT WORK RM 100C					400 VA	600 VA	RCPT RECEPTION 100	1	20 A	18
19	20 A	1	RCPT PRINCIPAL 100A	600 VA	600 VA					RCPT RECEPTION 100	1	20 A	20
21	20 A	1	VESTIBULE 127 CARD ACCESS			200 VA	1200 VA			RCPT LOBBY MONITORS	1	20 A	22
23	20 A	1	RCPT CLASSROOM 1 PUGMOLD					1200 VA	600 VA	RCPT CLASSROOM 1	1	20 A	24
25	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	26
27	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	28
29	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	30
31	20 A	1	Spare	1000 VA	1000 VA					Spare	1	20 A	32
33	20 A	1	Spare			1000 VA	1000 VA			Spare	1	20 A	34
35	20 A	1	Spare					1000 VA	1000 VA	Spare	1	20 A	36
37	--	1	Space	--	--					Space	1	--	38
39	--	1	Space			--	--			Space	1	--	40
41	--	1	Space					--	--	Space	1	--	42
			Total Load:	12558 VA		12708 VA		12514 VA					
			Total Amps:	105 A		106 A		104 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	12000 VA	62.50%	7500 VA		
RCPT	6000 VA	125.00%	7500 VA	**Total Conn. Load:**	37780 VA
LTG	1141 VA	125.00%	1426 VA	**Total Est. Demand:**	35065 VA
MECH	18639 VA	100.00%	18639 VA		
				Total Est. Demand:	97 A

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COA No. CA0029AE

3 — 3

2 — 2

1 — 1

SHEET HISTORY:

ISSUED	11/18/2022	CONSTRUCTION DOCUMENTS
A - 2	12/07/2022	ADDENDUM #2
A - 3	12/14/2022	ADDENDUM #3

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

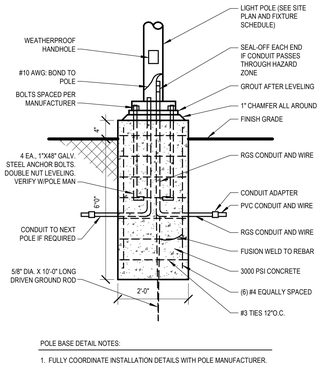
CE No.: 380-001-21

November 18, 2022

Electrical Schedules

E4.01

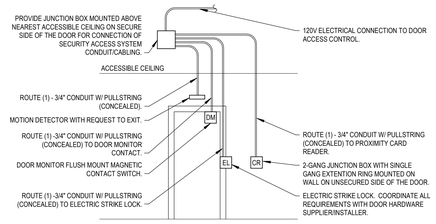
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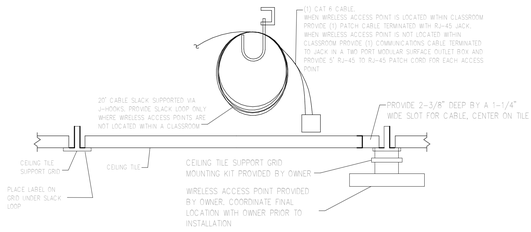
POLE BASE DETAIL NOTES:

1. FULLY COORDINATE INSTALLATION DETAILS WITH POLE MANUFACTURER.

POLE BASE DETAIL

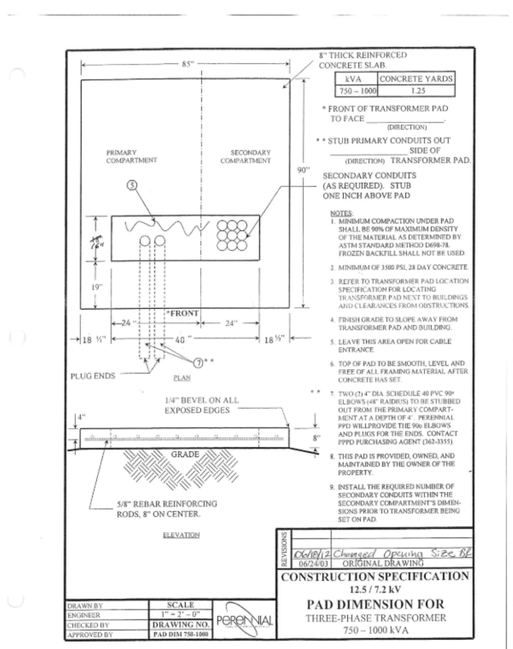


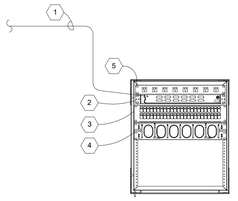
CARD ACCESS DETIAL



CEILING MOUNT WIRELESS ACCESS POINT (WAP) ROUGH-IN DETAIL

NO SCALE



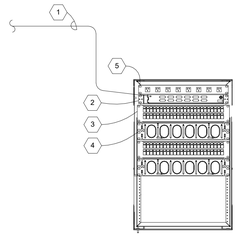


DIRECTOR 502 DATA RACK RISER

NO SCALE

DIRECTOR 502 DATA RACK RISER NOTES:

1. ROUTE ONE 12 STRAND SINGLE MODE FIBER OPTIC CABLE FROM THE DATA RACK IN WORK ROOM 100C CLOSET. COORDINATE CONNECTION WITH THE OWNERS REPRESENTATIVE. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA A FOR ADDITIONAL INFORMATION.
2. FIBER OPTIC PATCH PANEL FOR TERMINATION OF THE 12 STRANDS OF FIBER OPTIC CABLE FROM THE WORK ROOM 100C DATA RACK. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. 48 PORT PATCH PANEL FOR TERMINATION OF BLUE HORIZONTAL CATEGORY 6 CABLING. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA A AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. HORIZONTAL WIRE MANAGEMENT. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER PROVIDED AND INSTALLED PDU AT THIS LOCATION IN THE RACK. FOLLOW THIS RACK LAYOUT AND COORDINATE WITH THE OWNER.

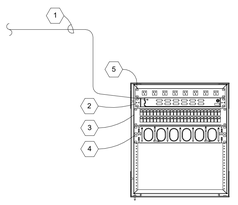


CLASSROOM 404 DATA RACK RISER

NO SCALE

CLASSROOM 404 DATA RACK RISER NOTES:

1. ROUTE ONE 12 STRAND SINGLE MODE FIBER OPTIC CABLE FROM THE DATA RACK IN JAN 13. COORDINATE CONNECTION WITH THE OWNERS REPRESENTATIVE. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA B FOR ADDITIONAL INFORMATION.
2. FIBER OPTIC PATCH PANEL FOR TERMINATION OF THE 12 STRANDS OF FIBER OPTIC CABLE FROM THE JAN 13 DATA RACK. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. 48 PORT PATCH PANEL FOR TERMINATION OF BLUE HORIZONTAL CATEGORY 6 CABLING. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA B AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. HORIZONTAL WIRE MANAGEMENT. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER PROVIDED AND INSTALLED PDU AT THIS LOCATION IN THE RACK. FOLLOW THIS RACK LAYOUT AND COORDINATE WITH THE OWNER.

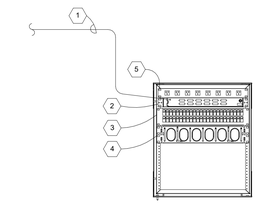


OFFICE 348 DATA RACK RISER

NO SCALE

OFFICE 348 DATA RACK RISER NOTES:

1. ROUTE ONE 12 STRAND SINGLE MODE FIBER OPTIC CABLE FROM THE DATA RACK IN THE SECOND FLOOR MECHANICAL ROOM. COORDINATE CONNECTION WITH THE OWNERS REPRESENTATIVE. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA A AND ROOF POWER & AUXILIARY SYSTEMS PLAN - AREA C FOR ADDITIONAL INFORMATION.
2. FIBER OPTIC PATCH PANEL FOR TERMINATION OF THE 12 STRANDS OF FIBER OPTIC CABLE FROM THE SECOND FLOOR MECHANICAL ROOM DATA RACK. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. 48 PORT PATCH PANEL FOR TERMINATION OF BLUE HORIZONTAL CATEGORY 6 CABLING. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA C AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. HORIZONTAL WIRE MANAGEMENT. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER PROVIDED AND INSTALLED PDU AT THIS LOCATION IN THE RACK. FOLLOW THIS RACK LAYOUT AND COORDINATE WITH THE OWNER.



2ND FLOOR MECH ROOM DATA RACK RISER

NO SCALE

2ND FLOOR MECH ROOM DATA RACK RISER NOTES:

1. ROUTE ONE 12 STRAND SINGLE MODE FIBER OPTIC CABLE FROM THE DATA RACK IN JAN 306. COORDINATE CONNECTION WITH THE OWNERS REPRESENTATIVE. SEE THE POWER & AUXILIARY SYSTEMS PLAN - AREA C AND ROOF POWER & AUXILIARY SYSTEMS PLAN - AREA C FOR ADDITIONAL INFORMATION.
2. FIBER OPTIC PATCH PANEL FOR TERMINATION OF THE 12 STRANDS OF FIBER OPTIC CABLE FROM THE JAN 306 DATA RACK. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. 48 PORT PATCH PANEL FOR TERMINATION OF BLUE HORIZONTAL CATEGORY 6 CABLING.
4. HORIZONTAL WIRE MANAGEMENT. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. OWNER PROVIDED AND INSTALLED PDU AT THIS LOCATION IN THE RACK. FOLLOW THIS RACK LAYOUT AND COORDINATE WITH THE OWNER.

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COA No. CA0029AE

SHEET HISTORY:

ISSUED 11/18/2022 CONSTRUCTION DOCUMENTS

Heartland Community Schools Addition & Renovation

1501 Front Street
Henderson, NE 68371

CE No.: 380-001-21

Electrical Details

E5.01

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2021 - 2022

HEARTLAND

COMMUNITY SCHOOLS

Annual Report



Striving For Excellence

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HEARTLAND COMMUNITY SCHOOLS

PK-12 Fall Enrollment:	**361 Students**
School Mascot:	**Huskies**
School Colors:	**Crimson / Black / White**
Inaugural Year:	**1998 - 1999**
Districts Re-Organized To Form Heartland Community Schools:	**Bradshaw Public Public Schools** **Henderson Community Schools**
Communities Within The District:	**Bradshaw** **Henderson**
District Size:	**154 sq. mi.**
District Schools (2):	**Heartland Elementary School** **Heartland Jr.-Sr. High School**
Activities Conference:	**Southern Nebraska Conference**
Educational Service Unit:	**ESU 6, Milford**
State Legislative District:	**24**
State Board Of Education District:	**5**
US Congressional District:	**3**



Heartland Community Schools
1501 Front Street
Henderson, NE 68371
402-723-4434

Website: www.heartlandschools.org

Facebook:
www.facebook.com/heartlandcommunityschools

Twitter: Heartland Huskies @hcsdogpound

BOARD MEMBERS & DISTRICT PERSONNEL

Board of Education 2021

President: Gary Braun
Vice President: Kent Allen
Secretary: Steve Stebbing
Lacey Gloystein
Tyler Newton
Tammy Ott

Board of Education 2022

President: Gary Braun
Vice President: Kent Allen
Secretary: Steve Stebbing
Lacey Gloystein
Tyler Newton
Tammy Ott

Administration

Superintendent: Brad Best
PK-6 Principal: Dana Reinke
7-12 Principal: Tim Carr

Certificated Staff

		NE Ave.
Instructional & Educational Staff:	34	
Instructional & Educational Staff FTE:	34.00	
Instructional & Educational Staff with Masters Degrees:	17 50%	 58%
Instructional & Educational Staff average total years experience:	16.0	13.9
Instructional & Educational Staff average years with district:	11.1	

Classified & Support Staff

Clerical Staff: 3
Para-Educators: 16
Maintenance Staff: 2
Foods Staff: 5
Regular Transportation Staff: 7

New Staff Members

Lisa Friesen: Foods Staff
Kelsey Gooder: K-12 Art Teacher
Katie Lovenburg: K-6 Teacher
Laini Meyer: Foods Staff
Reesa Nissen: Foods Staff
Amanda Struckman: 7-12 English Language Arts Teacher
Josh Struckman: 7-12 Spanish Teacher

SERVICE MILESTONES

5 Years Of Service
Angie McCormick
Ronda Duerksin
Heidi Ruhl

10 Years Of Service
Jennifer Buller
Tara Maltsberger
Stephanie Miller
Tami Peters

15 Years Of Service
Marcee van den Berg

20 Years Of Service
Matt Quiring
Erik Wetjen

25 Years Of Service
Lynn Hall

30 Years Of Service
Mary Hiebner

Retirements

Marietta Adams: Special Education Teacher; 29 years with the district
Brad Best: District Superintendent; 10 years with the district

Heartland Community Schools is an Equal Opportunity Employer

STUDENT ENROLLMENT & DEMOGRAPHICS

Student Enrollment

School Year	PK-12	K-12	PK	K	K-6	7-12
21-22	361	326	35	20	160	166
20-21	344	315	29	24	153	162
19-20	353	317	36	19	163	154
18-19	322	299	23	21	156	143
17-18	327	300	27	20	155	145
16-17	330	304	26	21	163	141
15-16	333	309	24	16	166	143
14-15	333	309	24	24	164	145
13-14	318	293	25	30	155	138
12-13	319	291	28	27	157	134

Daily Attendance Rate

School Year	Heartand	NE-Statewide
21-22	93.64%	92.28%
20-21	93.98%	93.21%
19-20	95.55%	94.30%
18-19	96.02%	94.48%
17-18	97.13%	94.30%
16-17	95.96%	94.59%
15-16	95.88%	94.89%
14-15	95.95%	95.17%
13-14	95.85%	95.18%

4-Year Graduation Rate

School Year	Heartand	NE-Statewide
21-22	96.15%	87.12%
20-21	95.65%	87.56%
19-20	96.00%	87.51%
18-19	96.15%	88.42%
17-18	100.00%	89.03%
16-17	95.24%	89.11%
15-16	95.65%	89.27%
14-15	96.43%	88.89%
13-14	90.00%	89.66%

Free & Reduced Lunch Participation

School Year	Heartand	NE-Statewide
21-22	24.65%	41.31%
20-21	30.23%	46.33%
19-20	29.46%	45.60%
18-19	30.12%	45.21%
17-18	33.94%	45.83%
16-17	31.82%	44.65%
15-16	30.33%	44.12%
14-15	29.43%	44.23%
13-14	27.99%	44.93%

Students Receiving SPED Services

School Year	Heartand	NE-Statewide
21-22	13.50%	15.92%
20-21	15.56%	15.67%
19-20	12.93%	15.56%
18-19	13.38%	15.48%
17-18	16.00%	15.12%
16-17	15.46%	14.97%
15-16	17.48%	14.71%
14-15	22.65%	14.71%
13-14	25.94%	15.74%



NEBRASKA STUDENT-CENTERED ASSESSMENT SYSTEM (NSCAS)

ENGLISH LANGUAGE ARTS

The tables on this page list the percentage of students that met or exceeded the Nebraska College & Career Readiness benchmark levels of performance that are established by the Nebraska State Department of Education for the statewide NSCAS English Language Arts assessment . These percentages are listed for both Heartland students and for all students across Nebraska that took the assessment at each grade level for which the statewide NSCAS assessments are administered.

Meeting Nebraska College & Career Readiness Grade Level Benchmarks

3RD GRADE

	Heartland	NE - Statewide
21-22	52%	50%
20-21	65%	50%
19-20	*not tested due to statewide closure*	
18-19	63%	56%
17-18	68%	53%

4TH GRADE

	Heartland	NE - Statewide
21-22	71%	53%
20-21	60%	54%
19-20	*not tested due to statewide closure*	
18-19	78%	58%
17-18	81%	56%

5TH GRADE

	Heartland	NE - Statewide
21-22	59%	47%
20-21	67%	46%
19-20	*not tested due to statewide closure*	
18-19	58%	48%
17-18	46%	51%

6TH GRADE

	Heartland	NE - Statewide
21-22	62%	44%
20-21	58%	45%
19-20	*not tested due to statewide closure*	
18-19	58%	49%
17-18	75%	47%

7TH GRADE

	Heartland	NE - Statewide
21-22	46%	42%
20-21	65%	44%
19-20	*not tested due to statewide closure*	
18-19	68%	49%
17-18	68%	47%

8TH GRADE

	Heartland	NE - Statewide
21-22	51%	46%
20-21	71%	50%
19-20	*not tested due to statewide closure*	
18-19	48%	50%
17-18	60%	51%

11TH GRADE STATEWIDE ACT

	Heartland	NE - Statewide
21-22	67%	46%
20-21	38%	46%
19-20	*not tested due to statewide closure*	
18-19	64%	51%
17-18	74%	50%



NEBRASKA STUDENT-CENTERED ASSESSMENT SYSTEM (NSCAS)

MATHEMATICS

The tables on this page list the percentage of students that met or exceeded the Nebraska College & Career Readiness benchmark levels of performance that are established by the Nebraska State Department of Education for the statewide NSCAS Math assessment . These percentages are listed for both Heartland students and for all students across Nebraska that took the assessment at each grade level for which the statewide NSCAS assessments are administered.

Meeting Nebraska College & Career Readiness Grade Level Benchmarks

3RD GRADE

	Heartland	NE - Statewide
21-22	70%	50%
20-21	50%	47%
19-20	*not tested due to statewide closure*	
18-19	56%	55%
17-18	50%	50%

4TH GRADE

	Heartland	NE - Statewide
21-22	76%	46%
20-21	52%	46%
19-20	*not tested due to statewide closure*	
18-19	91%	52%
17-18	74%	50%

5TH GRADE

	Heartland	NE - Statewide
21-22	44%	49%
20-21	38%	46%
19-20	*not tested due to statewide closure*	
18-19	61%	54%
17-18	46%	50%

6TH GRADE

	Heartland	NE - Statewide
21-22	57%	46%
20-21	62%	47%
19-20	*not tested due to statewide closure*	
18-19	88%	55%
17-18	85%	55%

7TH GRADE

	Heartland	NE - Statewide
21-22	69%	44%
20-21	68%	46%
19-20	*not tested due to statewide closure*	
18-19	73%	49%
17-18	68%	49%

8TH GRADE

	Heartland	NE - Statewide
21-22	66%	41%
20-21	79%	45%
19-20	*not tested due to statewide closure*	
18-19	70%	47%
17-18	70%	50%

11TH GRADE STATEWIDE ACT

	Heartland	NE - Statewide
21-22	63%	24%
20-21	63%	44%
19-20	*not tested due to statewide closure*	
18-19	64%	38%
17-18	70%	45%



NEBRASKA STUDENT-CENTERED ASSESSMENT SYSTEM (NSCAS)

SCIENCE

The tables on this page list the percentage of students that met or exceeded the Nebraska College & Career Readiness benchmark levels of performance that are established by the Nebraska State Department of Education for the statewide NSCAS Science assessment . These percentages are listed for both Heartland students and for all students across Nebraska that took the assessment at each grade level for which the statewide NSCAS assessments are administered.

Meeting Nebraska College & Career Readiness Grade Level Benchmarks

5TH GRADE

	Heartland	NE - Statewide
21-22	74%	71%
20-21	*not tested - new assessment released in 21-22*	
19-20	*not tested due to statewide closure*	
18-19	90%	69%
17-18	81%	69%

8TH GRADE

	Heartland	NE - Statewide
21-22	74%	63%
20-21	*not tested - new assessment released in 21-22*	
19-20	*not tested due to statewide closure*	
18-19	78%	63%
17-18	95%	66%

11TH GRADE STATEWIDE ACT

	Heartland	NE - Statewide
21-22	63%	48%
20-21	67%	50%
19-20	*not tested due to statewide closure*	
18-19	68%	53%
17-18	70%	54%

The 21-22 school year represents the first year of new Science standards being fully utilized in the Science assessment for Grades 5 & 8. Assessments for the 17-18 & 18-19 school years assessed the prior standards on the statewide Science assessment. Because of the revision in standards, results from 21-22 and after are not directly comparable to results prior to 21-22.



ACT

The ACT test is a standardized assessment designed to indicate general readiness for first-year, post-secondary course work in areas such as English Composition, Algebra, Social Studies, and Biology. The test traditionally has four sub-tests (English, Reading, Math, and Science), with each sub-test having a maximum scale-score of 36. A composite score (roughly the average of the sub-test scores) also has a maximum score of 36. In recent years an optional Writing sub-test has been added to the ACT test. Historically, post-secondary institutions have relied upon ACT scores as a part of their admissions process as a means of contextualizing academic records for students from their local schools as local districts across the nation may vary widely in a variety of factors. In recent years, the reliance upon measures such as ACT scores by post-secondary institutions in their admissions processes has begun to vary widely by institutions across the nation. Currently in Nebraska, virutally all students will take the ACT test in the Spring of their 11th grade year as a part of Nebraska's statewide assessment requirements. Many students in Nebraska, including students at Heartland, will take the ACT test multiple times, both before or after their participation in the statewide assessment.

For purposes related the 11th Grade, statewide ACT, the Nebraska Department of Education has established benchmark scores in line with what it has determined for meeting Nebraska's College & Career Readiness Benchmarks. Information related to meeting these specific benchmarks can be found in this report on the previous pages containing NSCAS performance information.

The information on this page includes information related to average performance and the percentage of students meeting the readiness benchmark scores that are determined by ACT. The ACT information titled, "11th Grade Statewide ACT" includes only performance of students on the statewide ACT taken in the Spring of the 11th Grade year. The ACT information titled, "Graduates" accounts for students taking the ACT multiple times prior to their graduation.

ACT has long established its own benchmarks for the ACT test, these are different than the benchmarks that are set by the Nebraska Department of Education. The ACT benchmarks are designed to indicate a 50% probability of being able to perform A-level work in the first year of college and a 75% probability of performing B-level work or higher in the first year of college in each sub-test area. The ACT benchmark scores are as follows: English - 18; Reading - 22; Math - 22; Science - 23.

ENGLISH

GRADUATES

	Heartland			NE - Statewide		
	Average Score	ACT Benchmark	Percent Tested	Average Score	ACT Benchmark	Percent Tested
21-22	20.1	69%	100%	18.6	51%	93%
20-21	20.1	50%	100%	19.1	55%	86%
19-20	20.8	68%	100%	19.2	54%	98%
18-19	20.6	71%	100%	19.4	55%	98%
17-18	19.6	64%	100%	19.4	56%	98%

ENGLISH LANGUAGE ARTS
(ENGLISH & READING COMBINED)

11TH GRADE STATEWIDE ACT

	Heartland			NE - Statewide		
	Average Score	Met ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	18.7	44%	100%	16.7	34%	96%
20-21	18.2	29%	100%	16.6	34%	93%
19-20	*not tested due to statewide closure*			*not tested due to statewide closure*		
18-19	19.3	45%	100%	17.7	37%	98%
17-18	19.7	52%	100%	17.6	37%	98%

READING

GRADUATES

	Heartland			NE - Statewide		
	Average Score	Met ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	21.3	42%	100%	19.8	37%	93%
20-21	22.2	40%	100%	20.7	42%	86%
19-20	21.2	32%	100%	20.2	38%	98%
18-19	21.3	46%	100%	20.3	40%	98%
17-18	20.2	45%	100%	20.4	40%	98%

MATHEMATICS

11TH GRADE STATEWIDE ACT

	Heartland			NE - Statewide		
	Average Score	Met ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	19.3	30%	100%	17.7	25%	96%
20-21	20.4	33%	100%	18.0	26%	93%
19-20	*not tested due to statewide closure*			*not tested due to statewide closure*		
18-19	20.8	50%	100%	18.9	31%	98%
17-18	20.5	44%	100%	18.9	31%	98%

GRADUATES

	Heartland			NE - Statewide		
	Average Score	Met ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	20.2	35%	100%	19.1	30%	93%
20-21	21.4	35%	100%	19.6	33%	86%
19-20	20.4	41%	100%	19.7	34%	98%
18-19	20.3	38%	100%	19.7	34%	98%
17-18	20.5	41%	100%	19.8	35%	98%

SCIENCE

11TH GRADE STATEWIDE ACT

	Heartland			NE - Statewide		
	Average Score	Met ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	20.6	30%	100%	18.1	26%	96%
20-21	20.9	25%	100%	18.3	26%	93%
19-20	*not tested due to statewide closure*			*not tested due to statewide closure*		
18-19	19.6	27%	100%	19.0	26%	98%
17-18	21.2	39%	100%	19.3	28%	98%

GRADUATES

	Heartland			NE - Statewide		
	Average Score	ACT Benchmark	Percent Tested	Average Score	Met ACT Benchmark	Percent Tested
21-22	20.8	35%	100%	19.6	31%	93%
20-21	22.2	40%	100%	20.2	35%	86%
19-20	20.1	27%	100%	20.0	31%	98%
18-19	21.1	42%	100%	20.2	33%	98%
17-18	20.7	32%	100%	20.1	33%	98%



MEETING ALL 4 BENCHMARKS

GRADUATES

	Heartland			NE - Statewide		
	Average Composite	Met All 4 Benchmarks	Percent Tested	Average Composite	Met All 4 Benchmarks	Percent Tested
21-22	20.7	27%	100%	19.4	20%	93%
20-21	21.7	25%	100%	20.0	23%	86%
19-20	20.7	18%	100%	19.9	22%	98%
18-19	21.0	13%	100%	20.0	22%	98%
17-18	20.4	23%	100%	20.1	22%	98%

OPPORTUNITIES BEYOND THE CLASSROOM

Heartland Community Schools and our staff offers students a wide array of opportunities to grow, to learn, and to excel beyond the classroom. Heartland is focused on the whole-student and we offer our students an array of high-quality, extra-curricular and co-curricular opportunities in support of our students' success both inside and outside of the classroom. Below are some of the activities and organizations that allow our students to engage, learn, and excel beyond the regular classroom setting.

CO-CURRICULAR

Fine & Performing Arts

Choir Ensembles
Concert Band
Concert Choir
Jazz Band
Marching Band
Musical Production
One-Act Play Production
Play Production
Show Choir

CTE & STEM

Broadcast & Mult-Media Production
Future Business Leaders of America (FBLA)
Future Farmers of America (FFA)
Journalism & Graphic Media Production
HCS Customs
Robotics (High School)
Robotics (Junior High)

Civic Engagement

County Government Day
Nebraska Boys' State
Nebraska Girls' State
Nebraska State Capitol Field Trip (5th Grade)
Veterans' Day Essay Contest

Extensions

Art Club
Biology Field Trip: Sandhill Cranes, Ground Water, Wetlands
Math Club
Quiz Bowl

EXTRA-CURRICULAR

High School

Basketball (Boys)
Basketball (Girls)
Football
Golf (Boys)
Golf (Girls)
Track & Field (Boys)
Track & Field (Girls)
Volleyball

Junior High School

Basketball (Boys)
Basketball (Girls)
Football
Track & Field (Boys)
Track & Field (Girls)
Volleyball



NOTEABLE MENTIONS

Class of 2022

The 24th Commencement Ceremony for Heartland High School was held on Sunday, May 8, 2022. The Class of 2022 consisted of twenty-eight graduates. 2022 Co-Valedictorians: Aaron Goertzen & Dawson Ohrt

Class of 2034

The Heartland Class of 2034 began it's K-12 journey as 20 students experienced their first day of Kindergarten on Thursday, August 12, 2021.

National Competition

Fifteen students qualified to compete in the 2022 FBLA National Leadership Conference. The 2022 National Leadership Conference was held in Chicago, Illinois from June 28 - July 3, 2022. Freshman student, Austin Schmidt, was a Top-10 National Finisher earning 7th place in the Introduction to Business Concepts event.

Marching Band

The Heartland Marching Band was crowned Champion of the 2021 Yorkfest Marching Competition held in York. The Heartland Marching Band was also crowned Champions of both the Class C division and the Class C and D combined division at the 2021 Harvest of Harmony Field Competition in Grand Island.

Post-Season Athletics

The Heartland Huskies Football Team was crowned District Champions and qualified for the Class D-1 State Playoffs - the team finished their season with a record of 6-3. The Heartland Boys Basketball Team finished their season with a 15-9 record and as the District C2-4 Runners-Up. The Heartland Boys Golf Team qualified for the Class C State Golf Tournament held in Columbus by finishing in 3rd place at their District Meet - the Boys Golf Team would go on to finish the State Tournament with a 13th place finish.

Successful Bond Election

During the statewide primary election held on Tuesday, May 10, 2022, Heartland patrons voted on, and passed, two bond issue questions for financing the costs of both rennovations to exiting facilities and construction of additional facilities at Heartland Community Schools.

The first question on the ballot was for the issuance of bonds not to exceed a total amount of $5,690,000 - this question passed by a vote of 531 - 320 (62.4% - 37.6%). Funds from this bond issuance are intended to finance the cost of security updgrades to the main entrance of the school, add four classrooms to the elementary school, connect the Vo-Ag shop to the main building, add a new locker room / weight room addition, and make improvements to the north gym including the installation of AC and the replacement of bleachers.

The second question on the ballot was for the issuance of bonds not to exceed a total amount of $1,370,000 - this question passed by a vote of 516 - 330 (61.0% - 39.0%). Funds from this bond issuance are intended to finance the cost of constructing a daycare / PK facility adjacent to the existing elementary building.

The district utilized the services of architects, Clark & Enersen Partners (Lincoln/Omaha), and investment bankers, Piper Sandler (Lincoln/Omaha), both prior to and after the bond election. The district closed on the sale of the Bonds in June, 2022 and began to formalize the necessary architectural and engineering plans in the Summer of 2022. At the time of election, it was hoped that the upcoming construction project would achieve substantial completion by August 1, 2024.



GENERAL FUND

REVENUE & RECIEPTS

	FY21-22		FY20-21	
	Receipt	*% Total*	Receipt	*% Total*
Property Tax	$3,553,299	*68.9%*	$3,461,607	*68.5%*
Other Local Sources	$292,278	*5.7%*	$310,320	*6.1%*
County Sources	$34,641	*0.7%*	$36,082	*0.7%*
State Aid	$57,780	*1.1%*	$54,328	*1.1%*
SPED Reimbursement	$345,100	*6.7%*	$305,112	*6.0%*
Other State Sources	$604,399	*11.7%*	$575,391	*11.4%*
Federal Sources	$266,718	*5.2%*	$313,583	*6.2%*
Other Non-Revenue Receipts	$3,341	*0.1%*	$579	*0.0%*
Total Revenue & Receipts	**$5,157,555**		**$5,057,001**	

EXPENDITURES & DISBURSEMENTS

	FY21-22		FY20-21	
	Expense	*% Total*	Expense	*% Total*
Regular Instruction	$2,454,504	*45.1%*	$2,239,402	*42.9%*
Special Education (SPED) Instruction	$567,218	*10.4%*	$634,389	*12.1%*
General Student & Staff Support Services	$292,584	*5.4%*	$347,150	*6.6%*
SPED Support Services	$313,124	*5.8%*	$301,247	*5.8%*
Administrative & Centralized Operations	$834,933	*15.3%*	$797,598	*15.3%*
Building Operations & Maintenance	$347,426	*6.4%*	$397,682	*7.6%*
Regular Transportation & Vehicle Maint.	$164,383	*3.0%*	$155,894	*3.0%*
SPED Transportation & Vehicle Maint.	$61,639	*1.1%*	$67,963	*1.3%*
State & Federal Categorical Programs	$201,624	*3.7%*	$230,511	*4.4%*
ARP: ESSER	$86,091	*1.6%*	$4,750	*0.1%*
Transfers	$116,872	*2.1%*	$45,708	*0.9%*
To Activities Fund	$27,528	*0.5%*	$45,708	*0.9%*
To Depreciation Fund	$89,344	*1.6%*	$0	*0.0%*
To Lunch Fund	$0	*0.0%*	$0	*0.0%*
To Other	$0	*0.0%*	$0	*0.0%*
Total Expenditures & Disbursements	**$5,440,399**		**$5,222,294**	



LEVY & VALUATION

	FY21-22		FY20-21	
Assessed Valuation	**$781,335,254**		**$792,699,097**	
Annual Increase/Decrease	-$11,363,843	-1.4%	-$48,578	0.0%
Assessed Valuation ***For Bonds***	**$781,335,254**		**$792,699,097**	
Annual Increase/Decrease	-$11,363,843	-1.4%	-$48,578	0.0%

	Tax Request	Levy	Tax Request	Levy
General Fund	$4,157,211	$0.53206	$3,957,978	$0.49930
Special Building Fund	$63,636	$0.00814	$63,636	$0.00803
Qualified Capital Purpose Undertaking	$0	$0.00000	$0	$0.00000
Bond Fund	$0	$0.00000	$0	$0.00000
Total Consolidated Tax Request	**$4,220,847**		**$4,021,614**	
	Total Non-Bond Levy	**$0.54021**	**Total Non-Bond Levy**	**$0.50733**
	Total Bond Levy	**$0.00000**	**Total Bond Levy**	**$0.00000**

FY 21-22 Regional/Area Levies & Valuations

	General	Bond	Building	Qualified	Total	Valuation
CLAY						
SUTTON PUBLIC SCHOOLS	$0.6488	$0.0000	$0.0793	$0.0000	$0.7281	$763,678,971
HARVARD PUBLIC SCHOOLS	$1.0209	$0.0000	$0.0114	$0.0000	$1.0323	$355,949,453
FILLMORE						
EXETER-MILLIGAN PUBLIC SCHS	$0.5629	$0.0000	$0.0586	$0.0000	$0.6215	$689,490,925
FILLMORE CENTRAL PUBLIC SCHS	$0.6261	$0.0000	$0.0536	$0.0000	$0.6797	$1,149,548,398
SHICKLEY PUBLIC SCHOOLS	$0.6979	$0.0000	$0.0411	$0.0518	$0.7908	$491,410,662
HAMILTON						
GILTNER PUBLIC SCHOOLS	$0.7824	$0.0000	$0.0293	$0.0351	$0.8468	$344,712,365
HAMPTON PUBLIC SCHOOL	$0.6786	$0.1636	$0.0000	$0.0386	$0.8808	$345,407,177
AURORA PUBLIC SCHOOLS	$0.8346	$0.0237	$0.0300	$0.0000	$0.8883	$1,682,365,277
POLK						
CROSS COUNTY COMMUNITY SCHS	$0.6463	$0.1206	$0.0267	$0.0000	$0.7936	$795,506,840
OSCEOLA PUBLIC SCHOOLS	$0.7132	$0.1444	$0.0066	$0.0000	$0.8642	$510,737,383
SHELBY - RISING CITY PUBLIC SCHS	$0.6705	$0.1185	$0.0100	$0.0000	$0.7990	$767,345,165
HIGH PLAINS COMMUNITY SCHS	$0.5028	$0.0000	$0.1399	$0.0000	$0.6427	$830,261,178
SEWARD						
MILFORD PUBLIC SCHOOLS	$0.8558	$0.0000	$0.0752	$0.0000	$0.9310	$687,884,747
SEWARD PUBLIC SCHOOLS	$0.8388	$0.0859	$0.0202	$0.0081	$0.9530	$1,680,093,238
CENTENNIAL PUBLIC SCHOOLS	$0.4735	$0.0544	$0.0365	$0.0000	$0.5644	$1,505,870,533
THAYER						
DESHLER PUBLIC SCHOOLS	$0.7633	$0.0000	$0.0299	$0.0000	$0.7932	$506,627,038
THAYER CENTRAL COMMUNITY SCHS	$0.6737	$0.0483	$0.0300	$0.0000	$0.7520	$830,849,041
BRUNING-DAVENPORT UNIFIED SYS	$0.5000	$0.0000	$0.0000	$0.0000	$0.5000	$843,616,908
YORK						
YORK PUBLIC SCHOOLS	$1.0029	$0.1290	$0.0462	$0.0212	$1.1993	$1,178,316,279
MC COOL JUNCTION PUBLIC SCHS	$0.8199	$0.0117	$0.0366	$0.0000	$0.8682	$344,942,978
HEARTLAND COMMUNITY SCHOOLS	$0.5321	$0.0000	$0.0081	$0.0000	$0.5402	$781,335,254

Description	STATUS	Estimated Cost	Estimate	*Not To Exceed* Estimates (for captialization limits)	Priority Level
		Known Totals	**$83,100**	**$67,500**	
Update HVAC computer & control software (Existing Bldg)	Active	-	$7,500		Highest
Backflow Preventers: Kitchen Sink Drain	Active	unknown	$25,000	**$25,000**	Highest
HS Library Rooftop AC Unit Replacement	Active	-	$23,000	**$25,000**	Highest
Boiler Service (Internal Service) pipe removal, drain, etc.	Active	unknown			High
Replace Hot Water Heater - Kitchen	Active	-	$10,000	**$17,500**	High
Vo-Ag Shop Classroom & Office: Furnace / AC replacement	Active	-	$11,000		High
Phones in Suites	Active		$1,100		High
Roof Inspection	Active	unknown			High
Relamp Gym Lights	Active	-	$2,000		Medium
Classroom Carpet Repairs	Active	nominal			Medium
Ceiling Tile & Lights Replacement - Kitchen	Active	unknown			Medium
Door Closer On Kitchen RR Door	Active	-	$500		Medium
Replace sidewalk section north of bleachers	Active	unknown			Medium
Front Lawn Box Drainage	Active	unknown			Medium
Courtyard Ponds	Active	unknown			Low
Powerwash Football Bleachers	Active	nominal			Low
Replace Classroom Clocks	Active		$3,000		Low
Windows: M. Regier	Deferred				Deferred
Windows: FCS	Deferred				Deferred
Windows: C. Regier	Deferred				Deferred
Windows: Business	Deferred				Deferred

Minutes for
Heartland Community Schools
Board of Education Regular Meeting

Monday, April 10, 2023 7:00 PM
Conference Room
1501 Front St
Henderson, NE 68371-8929

Notice of the meeting was posted in the Henderson News on April 6, 2023.

MISSION STATEMENT:

Heartland Community School strives to provide challenging educational opportunities for ALL students to reach their highest level of excellence.

Mr. Gary Braun:	Present
Lacey Gloystein:	Present
Ryan Goertzen:	Present
Jen Hiebner:	Present
Tyler Newton:	Present
Tammy Ott:	Present

1. **Preliminary Procedures**

1.1. **Call to Order**

1.2. **Public Notice of the Meeting**

1.3. **Roll Call**

2. **Public Comments on Agenda Items**

Nebraska Revised Statute 84-1412 requires members of the public desiring to provide comments to the board to identify himself or herself, including an address, and the name of any organization represented by such person. A form is provided at the meeting for individuals to complete and to submit to the superintendent prior to speaking for the purposes of efficiently providing this information.

3. **Reports**

3.1. **Superintendent's Report**

3.2. **Principals' Reports**

4. **Discussion Items**

4.1. **Recommended Instructional Materials Update: English Language Arts**

At this time we will present the recommendations for purchasing updated English Language Arts instructional materials. Later in the meeting, the Board will be asked to approve the purchase of the materials. This would be the opportunity for the Board to ask questions about the materials, the cost, etc.

I am very appreciative of the process that was utilized and the level of consideration that was invested by our professionals in the selection of these materials. English Language Arts encompasses a broad range of domains that include Reading, Writing, Listening, and Speaking. Additionally, the developmentally appropriate approaches and skill gradients can vary greatly across the age/grade continuum. It may be the most complex of areas of reach consensus around pedagogy and supporting resources (i.e. instructional materials). I'm pleased with the professional, collaborative, fact-driven, and systematic manner that our people engaged in this important decision-making process.

5. **Action Items**

5.1. **Accept Certificated Resignations**

5.1.1. Katie LovenburgAccept the resignation of Katie Lovenburg effective at the end of the 22-23 contract year. Passed with a motion by Jen Hiebner and a second by Lacey Gloystein.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

5.1.2. Daniel WagnerMotion to accept the resignation of Mr. Wagner. Passed with a motion by Jen Hiebner and a second by Ryan Goertzen.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

5.2. **Approved Certified Contracts**

5.2.1. Paige PetersApprove the 23-24 certified employment contract for Paige Peters as presented. Passed with a motion by Jen Hiebner and a second by Ryan Goertzen.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

5.3. **Approve Purchase Of Updated English Language Arts Instructional Materials**
Mrs. Reinke presented the board with the Heartland ELA adoption process. She discussed the "why" they use this process in an effort to create coherence with material as well as vertical alignment. It also ensures that everyone involved with the process has a voice in choosing ELA materials. She also gave the board a timeline of the process, and committee members involved. The group of committee members reviewed the materials through the lens of the ELA Instructional Vision statement of "In our ELA classrooms, we believe in: Explicit, systematic instruction that promotes foundations of reading, writing, speaking, and listening. A collaborative, relevant, and engaging environment where students feel safe to expand their learning. " as well as through an evaluation tool/rubric based on this vision. Through the process, the committee selected "Amplify CKLA" for K-5th, "Amplify ELA" for 6th-8th and "my Perspectives" for 9-12th. Mr. Carr shared that the difference in materials for 9-12 was due to Amplify not having ELA materials for that grade level.
Following the presentation, board members followed up with questions around current materials being used as well as questions on proposed ELA materials.Approve and authorize the purchase of updated English Language Arts instructional materials as recommended and proposed at a total cost not to exceed $136,662.64. Passed with a motion by Tyler Newton and a second by Jen Hiebner.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

6. **Future Agenda Items**

7. **Consent Agenda**Motion to approve the consent agenda Passed with a motion by Tyler Newton and a second by Lacey Gloystein.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

7.1. **Approval of Minutes**

7.1.1. Regular: March 13, 2023

7.1.2. Special: March 28, 2023

7.2. **Approval of Treasurer's Report**

7.3. **Approval of Claims**

7.4. **Financial Reports**

8. **Public Comments on Topics Not on the Agenda**

Nebraska Revised Statute 84-1412 requires members of the public desiring to provide comments to the board to identify himself or herself, including an address, and the name of any organization represented by such person. A form is provided at the meeting for individuals to complete and to submit to the superintendent prior to speaking for the purposes of efficiently providing this information.

9. **Adjournment**

The next scheduled meeting to be held onMotion to adjourn the meeting at 8:42pm. Passed with a motion by Tyler Newton and a second by Ryan Goertzen.
Mr. Gary Braun: Yea, Lacey Gloystein: Yea, Ryan Goertzen: Yea, Jen Hiebner: Yea, Tyler Newton: Yea, Tammy Ott: Yea

_____
Board President

_____
Board Secretary

HEARTLAND COMMUNITY SCHOOLS-HENDERSON/BRADSHAW

General Fund Treasurer's Statement for

Month Ending April 30, 2023

	CHECKING	SAVINGS	TOTAL
Balance April 1, 2023	**$908,173.50**	**$2,066,556.34**	**$2,974,729.84**
Receipts:			
York/Fillmore/Hamilton Co Taxes	$394,158.72		$394,158.72
State of Nebraska:			
- SPED Reimbursement	$50,473.00		$50,473.00
- TEEOSA	$6,640.00		$6,640.00
- Medicaid Reimbursement			$0.00
- Apportionment			$0.00
- IDEA Base & Preschool			$0.00
- Title IV			$0.00
- Title IIA			$0.00
Other:			
- Interest	$247.62	$5,195.27	$5,442.89
- Preschool Tuition	$260.00		$260.00
- Rental of Facilities			$0.00
- Meeting Stipend	$53.83		$53.83
- Dividend Allocation	$2,144.98		$2,144.98
-			$0.00
			$0.00
			$0.00
Subtotal:	$453,978.15	$5,195.27	$459,173.42
Transfer to MMA			
Total Funds Available:	$1,362,151.65	$2,071,751.61	$3,433,903.26
Less Disbursements	$624,081.83		$624,081.83
Balance April 30, 2023	**$738,069.82**	**$2,071,751.61**	**$2,809,821.43**

Check #	Vendor Name	Vendor Description	Amount
Checking	1		
Checking	**1 Fund: 01**	**GENERAL FUND**	
30507	AGTAC SERVICES	JANITORIAL SERVICES	8,587.00
30508	AMAZON CAPITAL SERVICES	SUPPLIES	4,899.14
30509	AMPLIFY EDUCATION	RENEWAL	107,094.24
30510	BLACK HILLS ENERGY	NATURAL GAS	3,020.18
30511	BRUNING-DAVENPORT USD	REIMBURSEMENT	3,253.24
30512	BURTON ENTERPRISES	TRASH REMOVAL	190.00
30513	CDW-G	SUPPLIES	93.72
30514	CENTRAL NEBRASKA REHABILITATION SERVICES	SERVICES	9,496.09
30515	CENTRAL VALLEY AG	SERVICES	6,157.14
30516	CHEMSEARCH	SUPPLIES	169.65
30517	CITY OF HENDERSON	WATER/SEWER	540.00
30518	DAS STATE ACCT-CENTRAL FINANCE	STATE REPORTING	238.13
30519	DIETZE MUSIC HOUSE	SUPPLIES	158.51
30520	EAKES OFFICE SOLUTIONS	SUPPLIES	938.40
30521	ESSENTIAL SCREENS	DRUG SCREENING	53.44
30522	ESU 6	SERVICES	671.91
30523	ESU 9	SERVICES	750.00
30524	FBLA	REGISTRATION	1,075.00
30525	FILLMORE COUNTY HOSPITAL	SERVICES	5,916.67
30526	FINTIE	SUPPLIES	4,028.45
30527	GRAINGER	SUPPLIES	297.58
30528	HAMPTON INN	SERVICES	2,638.90
30529	HEARTLAND ACTIVITY FUND	FUND TRANSFER	700.00
30530	HEARTLAND SCHOOL LUNCH FUND	FUND TRANSFER	97.64
30531	HENDERSON FOOD MART	SUPPLIES	192.91
30532	HENDERSON MOTORS	SERVICES	1,125.00
30533	HERITAGE PARK	FIELD TRIP	69.00
30534	HOMETOWN LEASING	COPY MACHINE LEASE	1,301.28
30535	HYATT PLACE	LODGING	636.00
30536	J.W. PEPPER & SON	SUPPLIES	249.23
30537	JONES SCHOOL SUPPLY CO., INC	SUPPLIES	256.00
30538	KSB SCHOOL LAW	LEGAL SERVICES	377.50
30539	MAESTRO AUTO GLASS	WINDSHIELD REPAIRS	40.00
30540	MAINSTAY COMMUNICATIONS	TELEPHONE	354.38
30541	MATHESON TRI GAS INC	SUPPLIES	234.63
30542	MCI	TELEPHONE	74.76
30543	MENARDS	SUPPLIES	201.12
30544	MILLER SEED & SUPPLY CO INC	SUPPLIES	167.50
30545	MOSYLE CORPORATION	SERVICES	2,612.50
30546	NEBRASKA FBLA	REGISTRATION	3,652.00
30547	NICK'S FARM STORE	SUPPLIES	76.85
30548	NUNNENKAMP ELECTRIC LLC	SERVICES	146.65
30549	OTT, TAMMY	REIMBURSEMENT	28.75
30550	PAPER TIGER SHREDDING	SERVICES	55.00
30551	PAYFLEX	CAFETERIA 125 PLAN	601.66

Check #	Vendor Name	Vendor Description	Amount	
30552	PERENNIAL PUBLIC POWER DISTRICT	ELECTRICITY	4,068.71	
9042823	QUADIENT LEASING	POSTAGE MACHINE	500.00	
30553	QUILL	SUPPLIES	507.05	
30554	ROWE SANCTUARY	FIELD TRIP	84.00	
30555	SAVVAS	SUBSCRIPTION	29,568.40	
30556	SERVICE PRESS	SERVICES	224.94	
30557	STRIV, INC.	SERVICES	1,282.51	
30558	STUDENT ASSURANCE SERVICES, INC.	STUDENT INSURANCE	940.00	
30559	TIME MANAGEMENT SYSTEMS	SERVICES	124.00	
30560	TRI COUNTY AUTO	SERVICES	747.22	
30561	U.S. BANK	SUPPLIES	5,189.94	
30562	UNITE PRIVATE NETWORKS	SERVICES	426.77	
2101	UNITED STATES POSTAL SERVICE	NEWSLETTER	302.00	
30563	VERIZON WIRELESS	TELEPHONE	168.40	
30564	YORK ACE HARDWARE	SUPPLIES	67.94	
30565	YORK GENERAL HOSPITAL	SERVICES	86.75	
		Fund Total:		**217,806.38**
		Checking Account Total:		**217,806.38**

Checking 2

Checking 2 Fund: 02 DEPRECIATION RESERVE FUND

1110	NEBRASKA SPORTS	SUPPLIES	8,808.84	
1111	R8 PRODUCTIONS	SERVICES	24,720.00	
		Fund Total:		**33,528.84**
		Checking Account Total:		**33,528.84**

Checking 6

Checking 6 Fund: 06 SCHOOL LUNCH/MILK FUND

4204	BERGEN, ANGIE	REIMBURSEMENT	1.00	
4205	GELDMACHER, LAURORA	LUNCH REFUND	47.75	
4206	HILAND DAIRY	SUPPLIES	1,538.40	
4207	MINARY, SHANDRA	LUNCH REFUND	92.30	
4208	NIELSEN, WILLIAM	LUNCH REFUND	18.45	
4209	SIEBERT, AMBER	LUNCH REFUND	33.75	
4210	US FOODS	SUPPLIES	9,076.96	
		Fund Total:		**10,808.61**
		Checking Account Total:		**10,808.61**

HEARTLAND COMMUNITY SCHOOLS
Fund Account Balances

	April 30, 2022	April 30, 2023
General Fund	$3,262,131.97	$2,809,821.43
Activity Fund	$116,188.22	$97,821.94
School Lunch Fund	$105,591.69	$161,942.70
Depreciation Fund	$538,688.86	$498,516.05
Unemployment Fund	$2,998.93	$3,012.84
Qualified Capital Purpose Fund	$0.00	$0.00
Special Building Fund	$269,057.57	$12,799,177.78
Bond Fund	$0.00	$229,712.18

Activity Fund Balance Report - Summary - Exclude Encumbrances

09/2022 - 04/2023

Regular; Beginning Month 09/2022; Processing Month 04/2023; Active Chart of Account Number True; Fund Number 05

Fund: 05 ACTIVITIES FUND

Chart of Account Number	Chart of Account Description	Beginning Balance	Expenses	Revenues	Balance Change	Balance
05 704 0101	FOOTBALL	1,220.00	6,448.42	6,118.82	0.00	890.40
05 704 0102	VOLLEYBALL	(680.00)	5,136.32	3,842.72	0.00	(1,973.60)
05 704 0103	BOYS BASKETBALL	0.00	6,723.74	2,972.40	0.00	(3,751.34)
05 704 0104	GIRLS BASKETBALL	45.00	3,583.05	3,486.26	0.00	(51.79)
05 704 0105	TRACK	136.95	6,470.92	1,200.00	0.00	(5,133.97)
05 704 0107	GENERAL ATHLETICS	0.00	1,995.25	0.00	0.00	(1,995.25)
05 704 0110	JH FOOTBALL	0.00	360.00	0.00	0.00	(360.00)
05 704 0111	JH VOLLEYBALL	0.00	645.00	0.00	0.00	(645.00)
05 704 0112	JH BOYS BASKETBALL	0.00	1,299.99	0.00	0.00	(1,299.99)
05 704 0113	JH GIRLS BASKETBALL	0.00	1,200.00	0.00	0.00	(1,200.00)
05 704 0114	JH TRACK	0.00	1,760.00	750.00	0.00	(1,010.00)
05 704 0116	SEASON PASS	900.00	0.00	3,590.00	0.00	4,490.00
05 704 0117	GIRLS GOLF	0.00	2,420.00	375.00	0.00	(2,045.00)
05 704 0118	BOYS GOLF	0.00	2,417.03	0.00	0.00	(2,417.03)
05 704 0119	DISTRICT ACCOUNT	0.00	0.00	0.00	0.00	0.00
05 704 0120	CONFERENCE ACCOUNT	0.00	0.00	0.00	0.00	0.00
05 704 0129	COACH - FB	1,646.35	200.00	0.00	0.00	1,446.35
05 704 0130	COACH - VB	1,139.87	456.00	299.00	0.00	982.87
05 704 0131	COACH - GIRLS BB	2,584.92	254.00	713.42	0.00	3,044.34
05 704 0132	COACH - BOYS BB	2,350.71	683.94	1,042.41	0.00	2,709.18
05 704 0133	COACH - JH BB	555.00	0.00	0.00	0.00	555.00
05 704 0135	COACH - GIRLS GOLF	361.80	(30.00)	0.00	0.00	391.80
05 704 0136	COACH - BOYS GOLF	1,094.93	1,136.00	1,672.57	0.00	1,631.50
05 704 0137	COACH - TRACK	2,112.37	829.00	640.00	0.00	1,923.37
05 704 0138	COACH - JH VB	512.99	173.50	0.00	0.00	339.49
05 704 0200	BAND UNIFORMS	433.68	0.00	0.00	0.00	433.68
05 704 0201	BAND	1,419.13	293.63	0.00	0.00	1,125.50
05 704 0202	CHORUS	1,589.50	0.00	0.00	0.00	1,589.50
05 704 0203	MARCHING SHOES	34.25	34.59	0.00	0.00	(0.34)
05 704 0204	VOCAL CLINIC	973.53	3,668.48	3,275.00	0.00	580.05
05 704 0206	MUSIC TRIP	2,017.34	0.00	1,262.81	0.00	3,280.15
05 704 0207	DISTRICT MUSIC	2,307.09	0.00	540.00	0.00	2,847.09
05 704 0301	ART	2,798.29	267.89	820.00	0.00	3,350.40
05 704 0302	MUSICAL	0.00	4,710.82	2,975.00	0.00	(1,735.82)
05 704 0304	ALL SCHOOL PLAY	5,200.73	0.00	616.88	0.00	5,817.61
05 704 0305	ONE ACT	223.54	1,400.45	0.00	0.00	(1,176.91)
05 704 0403	FBLA	3,426.56	2,184.08	2,216.17	0.00	3,458.65

Regular; Beginning Month 09/2022; Processing Month 04/2023; Active Chart of Account Number True; Fund Number 05

Fund: 05 ACTIVITIES FUND

Chart of Account Number	Chart of Account Description	Beginning Balance	Expenses	Revenues	Balance Change	Balance
05 704 0404	IND TECH/AG PROJECTS	(301.00)	1,345.96	712.59	0.00	(934.37)
05 704 0405	FFA	3,896.46	17,424.60	14,205.00	0.00	676.86
05 704 0407	SCIENCE CLUB	1,229.12	0.00	0.00	0.00	1,229.12
05 704 0408	BIOLOGY/ENGLISH TRIP	367.20	0.00	0.00	0.00	367.20
05 704 0409	QUIZ BOWL/MATH CLUB	529.36	140.00	0.00	0.00	389.36
05 704 0410	COACH - JH ROBOTICS	511.73	0.00	0.00	0.00	511.73
05 704 0411	COACH - HS ROBOTICS	702.15	0.00	0.00	0.00	702.15
05 704 0450	JH ROBOTICS	247.33	632.79	933.00	0.00	547.54
05 704 0451	HS ROBOTICS	0.00	1,789.50	933.00	0.00	(856.50)
05 704 0500	CLASS OF 2020	0.00	0.00	0.00	0.00	0.00
05 704 0501	CLASS OF 2021	0.00	0.00	0.00	0.00	0.00
05 704 0502	CLASS OF 2022	0.00	0.00	0.00	0.00	0.00
05 704 0503	CLASS OF 2023	2,337.73	1,568.00	0.00	0.00	769.73
05 704 0504	CLASS OF 2024	3,855.61	3,711.73	2,820.00	0.00	2,963.88
05 704 0505	CLASS OF 2025	3,176.60	0.00	0.00	0.00	3,176.60
05 704 0506	CLASS OF 2026	628.23	0.00	1,955.75	0.00	2,583.98
05 704 0507	CLASS OF 2027	0.00	0.00	0.00	0.00	0.00
05 704 0508	CLASS OF 2028	0.00	0.00	0.00	0.00	0.00
05 704 0509	CLASS OF 2029	0.00	0.00	0.00	0.00	0.00
05 704 0601	NATIONAL HONOR SOCIETY	832.86	861.98	1,592.59	0.00	1,563.47
05 704 0701	HCS CUSTOMS	(1,461.08)	15,168.99	18,493.27	0.00	1,863.20
05 704 0709	YEARBOOK	0.00	3,630.60	5,622.50	0.00	1,991.90
05 704 0801	STUDENT COUNCIL	1,345.13	1,106.49	241.00	0.00	479.64
05 704 0802	CONCESSIONS	(3,117.08)	26,070.12	26,537.47	0.00	(2,649.73)
05 704 0804	INTEREST ON ACT ACCT	3.44	0.00	51.71	0.00	55.15
05 704 0805	LOCKERS PROJECT	0.00	0.00	0.00	0.00	0.00
05 704 0806	ELEM STUDENT COUNCIL	1,580.47	(38.85)	1,423.96	0.00	3,043.28
05 704 0810	JH HOMEROOM	0.00	0.00	0.00	0.00	0.00
05 704 0913	REVOLVING - SECONDARY	750.00	460.00	(350.00)	0.00	(60.00)
05 704 0914	REVOLVING - ELEMENTARY	0.00	0.00	0.00	0.00	0.00
05 704 0915	STUDENT SUPPLIES	250.00	0.00	0.00	0.00	250.00
05 704 0918	JOHN BAYLOR TEST PREP	2,200.00	0.00	0.00	0.00	2,200.00
05 704 0924	OTT SCHOLARSHIP	29,189.44	1,000.00	174.19	0.00	28,363.63
05 704 0930	MONSANTO/BAYER GRANT	0.00	0.00	0.00	0.00	0.00
05 704 0936	FIELD TRIP GRANT	4,273.89	0.00	0.00	0.00	4,273.89
05 704 0937	CIRCLE OF FRIENDS AUTISM GRANT	828.84	0.00	0.00	0.00	828.84
05 704 0938	IF KIDS COULD CURE GRANT	5,783.63	199.00	934.00	0.00	6,518.63

Regular; Beginning Month 09/2022; Processing Month 04/2023; Active Chart of Account Number True; Fund Number 05

Fund: 05 ACTIVITIES FUND

Chart of Account Number	Chart of Account Description	Beginning Balance	Expenses	Revenues	Balance Change	Balance
05 704 0939	GIRLS ON THE RUN	657.75	0.00	0.00	0.00	657.75
05 704 0940	HUSKIE BEEF	0.00	0.00	0.00	0.00	0.00
05 704 0941	EARLY INTERVENTION	0.00	0.00	1,000.00	0.00	1,000.00
05 704 0950	COMPUTER DEPOSITS	13,856.54	0.00	0.00	0.00	13,856.54
05 704 0951	STAFF LOUNGE ACCOUNT	1,257.76	698.21	350.00	0.00	909.55
05 704 0952	EHA ELEVATE PROGRAM	1,975.62	3,027.59	5,510.00	0.00	4,458.03
	Fund Total: 05	111,792.26	135,518.81	121,548.49	0.00	97,821.94

Function Number		Revised Budget	Activity During Month	Activity to Date	Balance at EOM	% of Budget
Expenditure						
01	**GENERAL FUND**					
1100	REGULAR INSTRUCTION	2,508,143.00	201,731.53	1,571,023.16	937,119.84	62.64
1200	SPED - SA	853,090.00	71,476.28	452,307.01	400,782.99	53.02
1291	SPED - 3-5	0.00	13,164.03	99,636.65	(99,636.65)	0.00
1292	SPED - 0-2	0.00	803.51	6,803.95	(6,803.95)	0.00
1300	SUMMER SCHOOL	3,526.00	0.00	0.00	3,526.00	0.00
2120	GUIDANCE SERVICES	74,495.00	4,847.69	39,589.02	34,905.98	53.14
2130	HEALTH SERVICES - GEN ED	11,351.00	0.00	0.00	11,351.00	0.00
2140	PSYCHOLOGICAL SVCS - GEN ED	0.00	1,008.00	6,704.00	(6,704.00)	0.00
2141	PSYCHOLOGICAL SVCS - SPED SA	131,000.00	4,908.67	40,629.36	90,370.64	31.01
2151	SPEECH PATH & AUDIOLOGY SVCS - SPED SA	99,923.00	8,755.96	73,729.92	26,193.08	73.79
2153	SPEECH PATH & AUDIOLOGY SVCS - SPED 0-2	0.00	636.86	2,369.54	(2,369.54)	0.00
2161	OCCUPATIONAL THERAPY SVCS - SPED SA	15,000.00	4,337.73	31,832.49	(16,832.49)	212.22
2162	OCCUPATIONAL THERAPY SVCS - SPED 3-5	0.00	924.00	4,117.19	(4,117.19)	0.00
2163	OCCUPATIONAL THERAPY SVCS - SPED 0-2	0.00	0.00	1,473.38	(1,473.38)	0.00
2171	PHYSICAL THERAPY SVCS - SPED SA	22,000.00	1,814.82	13,909.52	8,090.48	63.23
2172	PHYSICAL THERAPY SVCS - SPED 3-5	0.00	250.25	1,617.00	(1,617.00)	0.00
2173	PHYSICAL THERAPY SVCS - SPED 0-2	0.00	449.61	3,809.61	(3,809.61)	0.00
2181	VISION SERVICES - SPED SA	10,000.00	840.00	4,772.75	5,227.25	47.73
2183	VISION SERVICES - SPED 0-2	0.00	0.00	348.88	(348.88)	0.00
2213	INSTRUCTIONAL STAFF TRAINING	20,800.00	2,029.97	5,278.87	15,521.13	25.38
2220	LIBRARY/MEDIA SERVICES	162,709.00	12,082.51	103,365.81	59,343.19	63.53
2230	INSTRUCTION-RELATED TECHNOLOGY	42,108.00	3,565.65	30,028.94	12,079.06	71.31
2240	ACADEMIC STUDENT ASSESSMENT	22,000.00	0.00	5,302.50	16,697.50	24.10
2310	BOARD OF EDUCATION	72,600.00	80.85	29,619.15	42,980.85	40.80
2320	EXECUTIVE ADMINISTRATION	375,791.00	29,175.34	235,249.97	140,541.03	62.60
2330	DISTRICT LEGAL SERVICES	15,000.00	195.00	3,315.50	11,684.50	22.10
2410	OFFICE OF THE PRINCIPAL	379,988.00	29,812.49	237,122.13	142,865.87	62.40
2490	SCHOOL ADMINISTRATION - OTHER	5,540.00	461.69	3,693.52	1,846.48	66.67
2510	FISCAL SERVICES	38,700.00	274.00	12,542.00	26,158.00	32.41
2560	PUBLIC INFORMATION SERVICES	108,075.00	3,405.75	32,503.60	75,571.40	30.08
2580	ADMINISTRATIVE TECHNOLOGY SERVICES	60,497.00	3,580.65	31,116.55	29,380.45	51.43
2610	OPERATION OF BUILDINGS	631,568.00	36,987.89	396,217.70	235,350.30	62.74
2620	MAINTENANCE OF BUILDINGS	0.00	938.74	1,508.74	(1,508.74)	0.00
2710	VEHICLE OPERATION & PURCH - GEN ED	235,753.00	14,480.72	163,269.92	72,483.08	69.25
2712	VEHICLE OPERATION & PURCH - SPED SA	59,131.00	5,379.12	42,474.87	16,656.13	71.83
2713	VEHICLE OPERATION & PURCH - SPED 3-5	12,052.00	1,930.86	8,978.28	3,073.72	74.50
2730	VEHICLE SERVICING & MAINT - GEN ED	50,000.00	1,605.85	14,918.48	35,081.52	29.84
2732	VEHICLE SERVICING & MAINT - SPED SA	3,000.00	0.00	904.94	2,095.06	30.16
2733	VEHICLE SERVICING & MAINT - SPED 3-5	3,000.00	74.30	668.93	2,331.07	22.30
3300	COMMUNITY SERVICES OPERATIONS	5,289.00	0.00	0.00	5,289.00	0.00
3535	HIGH ABILITY LEARNERS	8,000.00	0.00	7,192.75	807.25	89.91
6200	TITLE IA	94,869.00	6,952.00	55,616.00	39,253.00	58.62
6406	IDEA - PRESCHOOL	7,390.00	0.00	0.00	7,390.00	0.00
6408	IDEA - BASE & ENROLLMENT/POVERTY	100,894.00	0.00	0.00	100,894.00	0.00
6992	REAP	32,000.00	26,227.83	40,467.89	(8,467.89)	126.46
6997	ELE & SEC SCH EMERGENCY RELIEF (ESSERII)	82,291.00	17,594.87	79,883.86	2,407.14	97.07
6998	ELE & SEC SCH EMERGENCY RELIEF (ESSERIII)	194,970.00	112,417.30	118,015.01	76,954.99	60.53
8000	OUTGOING TRANSFERS	135,000.00	0.00	0.00	135,000.00	0.00
9000	NON-PROGRAM EXPENDITURES	943,537.00	0.00	0.00	943,537.00	0.00
		7,631,080.00	625,202.32	4,013,929.34	3,617,150.66	52.60

Function Number		Revised Budget	Activity During Month	Activity to Date	Balance at EOM	% of Budget
Expenditure						
06	**SCHOOL LUNCH/MILK FUND**					
3100	FOOD SERVICES OPERATIONS	0.00	30,538.09	209,061.58	(209,061.58)	0.00
		0.00	30,538.09	209,061.58	(209,061.58)	0.00