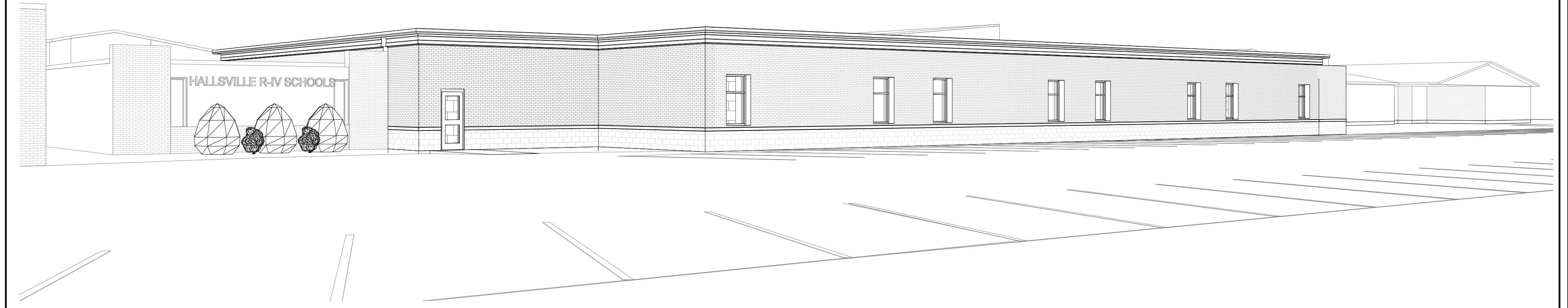


MIDDLE SCHOOL ADDITIONS

421 MO-124 E
HALLSVILLE MO, 65255

FOR:
HALLSVILLE SCHOOL DISTRICT

BY A/E FIRM:
KLINGNER & ASSOCIATES P.C.
907 East Ash Street
Columbia, Missouri 65201
Phone: (573) 355-5988



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
Columbia, Missouri
www.klinger.com
907 East Ash St.
Quincy, IL, Galena, IL, Burlington, IA
Pella, IA, Davenport, IA, Hannibal, MO
573.355.5988

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REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR: 08/12/2022

SCHEMATIC DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE MO, 65255

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

DESIGNED	HMC	DRAWN	JRT
FIELD	HMC	FIELD BOOK	
CHECKED	HMC	CHECK DATE	

SHEET TITLE

COVER SHEET

PROJECT NO.
21-5982

DRAWING ISSUED DATE:
01/01/2020

SHEET
G001

PROJECT LOCATION



GENERAL NOTES

- 1.) THE CONTRACTOR(S) SHALL CONFIRM CONDITIONS DESCRIBED HEREIN AND TELL THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO BEGINNING CONSTRUCTION.
- 2.) THE CONTRACTOR(S) SHALL FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO BEGINNING CONSTRUCTION.
- 3.) THE CONTRACTOR(S) SHALL MEET ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2017 NATIONAL ELECTRIC CODE
ADA ACCESSIBILITY GUIDELINES WITH 2010 UPDATES
- 4.) THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR OSHA COMPLIANCE AND JOB SITE SAFETY.
- 5.) CONTRACTOR(S) SHALL FIELD VERIFY LOCATIONS OF ALL UTILITIES AT THE SITE BEFORE BEGINNING EXCAVATION OR CONSTRUCTION. ITEMS WILL BE MARKED AND PROTECTED.
- 6.) KLINGNER & ASSOCIATES, P.C. PERFORMED AN ASBESTOS INSPECTION IN THE BUILDING AREAS PROPOSED FOR RENOVATION ON MARCH 29, 2019. NO ASBESTOS CONTAINING BUILDING MATERIALS WERE IDENTIFIED DURING THE INSPECTION. AN ELECTRONIC COPY OF THE ASBESTOS INSPECTION REPORT WILL BE PROVIDED UPON REQUEST. THE CONTRACTOR(S) SHALL REPORT ANY SUSPICIOUS (POTENTIALLY HAZARDOUS) MATERIALS AT THE SITE IMMEDIATELY TO THE OWNER FOR FURTHER ACTION. UNLESS NOTED SPECIFICALLY ON THE DRAWINGS OR PROJECT MANUAL, THE ARCHITECT/ENGINEER IS NOT AWARE OF ANY HAZARDOUS MATERIALS AND HAS NOT BEEN HIRED BY THE OWNER TO DEAL WITH SUCH.
- 7.) CONTRACTOR(S) SHALL TAKE PRECAUTIONS NECESSARY TO PROTECT ADJACENT PROPERTY FROM DAMAGE RESULTING FROM CONSTRUCTION OBSERVATIONS.
- 8.) SCHEDULE OF ALTERNATES:



SHEET INDEX

NOTATION AND SYMBOL DESIGNATIONS

<p>○ View Name 1/8" = 1'-0"</p>	<p>⊥ CENTER LINE</p>
<p>□ VIEW INDICATOR</p>	<p>⊕ ROOM NAME [A101] 150 SF</p>
<p>○ SIM A101 DETAIL INDICATOR</p>	<p>⊕ ROOM INDICATOR</p>
<p>⊕ SECTION INDICATOR</p>	<p>⊕ DOOR INDICATOR</p>
<p>⊕ EXTERIOR ELEVATION INDICATOR</p>	<p>⊕ WALL TYPE INDICATOR</p>
<p>⊕ INTERIOR ELEVATION INDICATOR</p>	<p>⊕ WINDOW TYPE INDICATOR</p>
<p>⊕ NOTE INDICATOR</p>	<p>⊕ BUILDING GRID INDICATOR</p>

NOTE:
• CONFORMED DOCUMENTS ARE CREATED FOR OWNER AND CONTRACTOR CONVENIENCE.
• CONFORMED DOCUMENTS DO NOT OVERRIDE THE ORIGINAL DOCUMENTED CHANGES.
• BY USING THE CONFORMED DOCUMENTS THE CONTRACTOR AGREES NOT TO HOLD THE OWNER OR ARCHITECT LIABLE FOR THE CONFORMED DOCUMENTS' POSSIBLE OMISSIONS OR MISTAKES RELATED TO THE PREVIOUSLY DOCUMENTED CHANGES.

DEMOLITION LEGEND

-  REMOVALS BY CONTRACTOR
-  SAWCUT

DEMOLITION NOTES

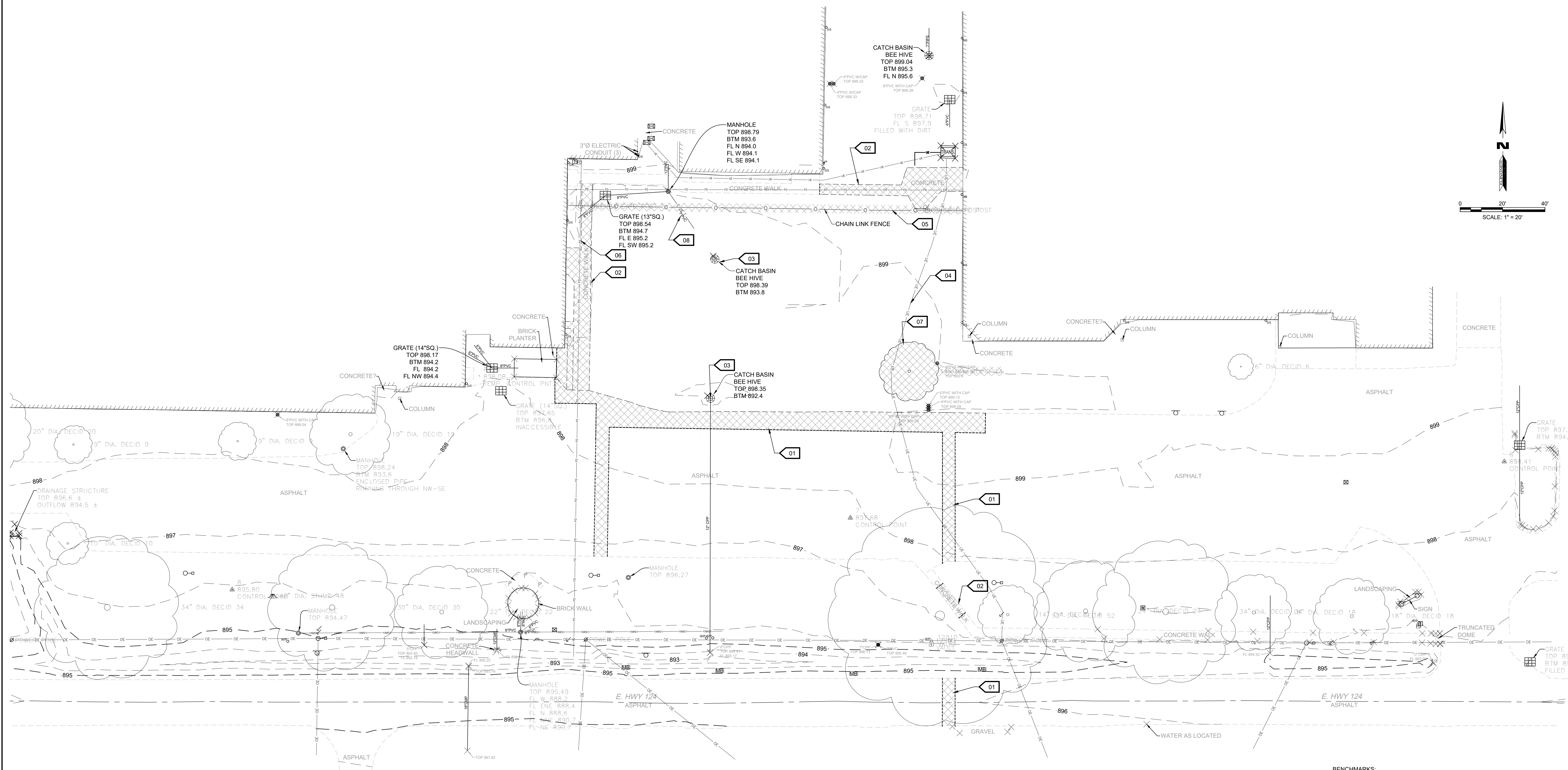
1. REMOVE ALL EXISTING PAVEMENTS, CURBS, WALLS, LANDSCAPING, AND ALL OTHER EXISTING SITE FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
2. COORDINATE UTILITY REMOVALS AND/OR RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES AND/OR THE CITY OF HALLSVILLE.
3. DEMOLITION SHALL INCLUDE REMOVAL & PROPER DISPOSAL OF MATERIALS.
4. CONTRACTOR TO PAY ALL PERMIT & DISPOSAL FEES.

SITE DEMOLITION KEY NOTES:

- 01 > REMOVE PAVEMENT. SAWCUT AT REMOVAL LIMITS TO PROVIDE UNIFORM EDGE.
- 02 > REMOVE SIDEWALK TO NEAREST JOINT.
- 03 > REMOVE INLET. SALVAGE FRAME & GRATE TO OWNER.
- 04 > REMOVE PRIMARY ELECTRIC.
- 05 > REMOVE CHAIN LINK FENCE.
- 06 > RELOCATE/LOWER FIBEROPTIC LINE.
- 07 > REMOVE TREE, STUMP AND ROOT BALL.
- 08 > REMOVE STORM SEWER.

REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.



BENCHMARKS:
 2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER
 SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.84 (FROM TOPOGRAPHIC
 SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
 5. CHISELED "x" SOUTH FLANGE BOLT FIRE HYDRANT IN ISLAND EAST OF
 SCHOOL - ELEV 902.32

ISSUED FOR: **08/12/2022**

SCHEMATIC DESIGN

**PRELIMINARY
 NOT FOR CONSTRUCTION**

**HALLSVILLE MIDDLE SCHOOL ADDITION
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE MO, 65255**

Non-Reduced Sheet Size 30" x 42"
 Full sheet plans have been prepared using standard scales.
 Reduced sheet plans may not conform to standard scales.

DESIGNED	DRAWN
DCD	DCD
FIELD ECD/MCP	FIELD BOOK
CHECKED CSW	CHECK DATE

SHEET TITLE
EXISTING CONDITIONS & SITE DEMOLITION PLAN
 PROJECT NO.
 21-0922
 DRAWING ISSUED DATE:
 08/12/2022
 SHEET
CD101

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REVISION HISTORY		
NO.	DESCRIPTION	DATE
1	ISSUED FOR	08/12/2022

ISSUED FOR: 08/12/2022
 SCHEMATIC DESIGN
 PRELIMINARY
 NOT FOR CONSTRUCTION

ISSUED FOR: 08/12/2022

SCHEMATIC DESIGN

PRELIMINARY
 NOT FOR CONSTRUCTION

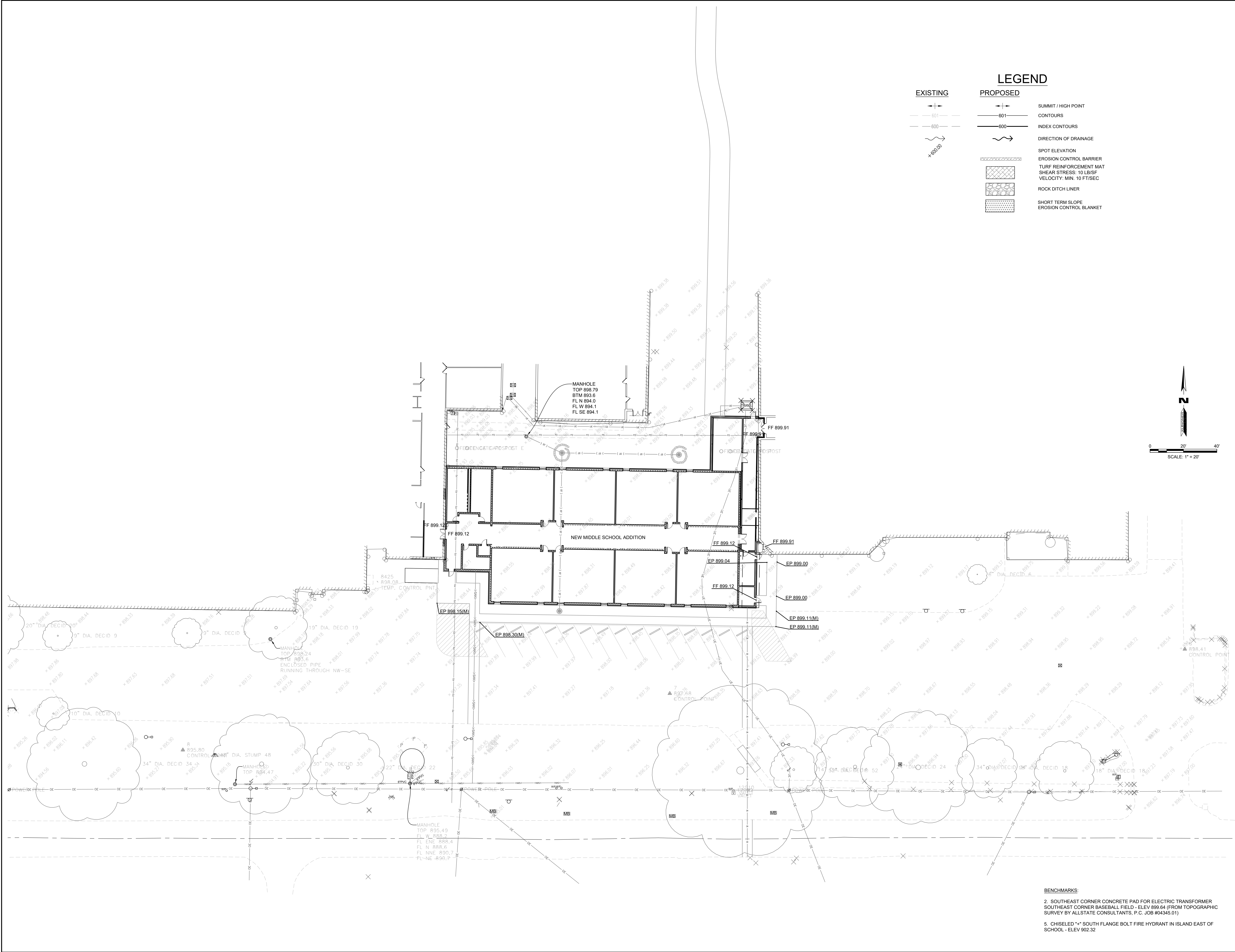
HALLSVILLE MIDDLE SCHOOL ADDITION
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE MO, 65255

SHEET TITLE	
DESIGNED	DCD
DRAWN	DCD
FIELD	FIELD BOOK
ECM/MCP	M06B05
CHECKED	CHECK DATE
CSW	

GRADING & EROSION CONTROL PLAN

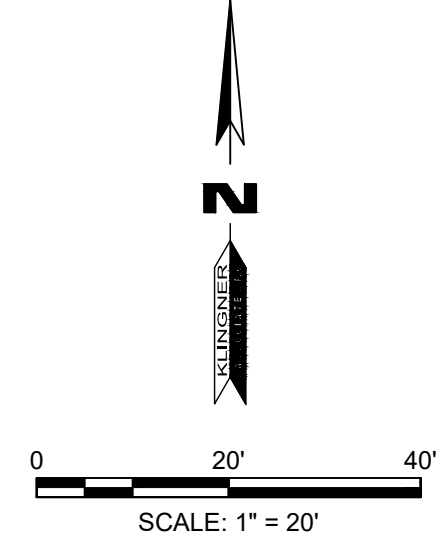
PROJECT NO. 21-0922
 DRAWING ISSUED DATE: 08/12/2022

SHEET C201



LEGEND

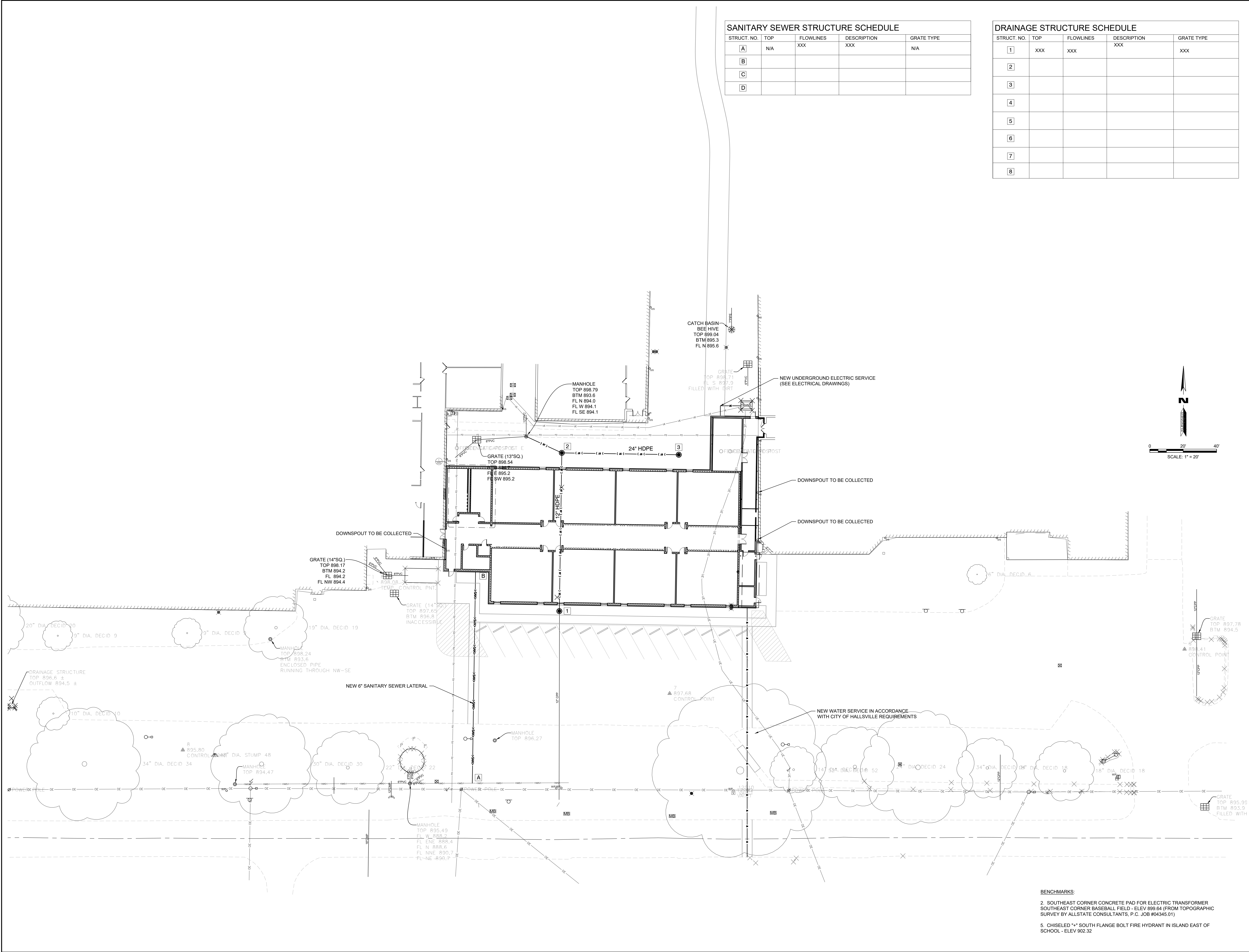
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|-----------------|--------------------|---|
| EXISTING | PROPOSED | |
| —+— | —+— | SUMMIT / HIGH POINT |
| —601— | —601— | CONTOURS |
| —600— | —600— | INDEX CONTOURS |
| ~ | ~ | DIRECTION OF DRAINAGE |
| +890.00 | | SPOT ELEVATION |
| | [Hatched Box] | EROSION CONTROL BARRIER |
| | [Stippled Box] | TURF REINFORCEMENT MAT
SHEAR STRESS: 10 LBS/FT
VELOCITY: MIN. 10 FT/SEC |
| | [Rock Pattern Box] | ROCK DITCH LINER |
| | [Dotted Box] | SHORT TERM SLOPE
EROSION CONTROL BLANKET |



BENCHMARKS:
 2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER
 SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.64 (FROM TOPOGRAPHIC
 SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
 5. CHISELED "S" SOUTH FLANGE BOLT FIRE HYDRANT IN ISLAND EAST OF
 SCHOOL - ELEV 902.32

SANITARY SEWER STRUCTURE SCHEDULE				
STRUCT. NO.	TOP	FLOWLINES	DESCRIPTION	GRATE TYPE
A	N/A	XXX	XXX	N/A
B				
C				
D				

DRAINAGE STRUCTURE SCHEDULE				
STRUCT. NO.	TOP	FLOWLINES	DESCRIPTION	GRATE TYPE
1	XXX	XXX	XXX	XXX
2				
3				
4				
5				
6				
7				
8				



KLINGNER & ASSOCIATES, P.C.
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REVISION HISTORY		
NO.	DESCRIPTION	DATE

ISSUED FOR: **08/12/2022**

SCHEMATIC DESIGN

**PRELIMINARY
NOT FOR CONSTRUCTION**

**HALLSVILLE MIDDLE SCHOOL ADDITION
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE MO, 65255**

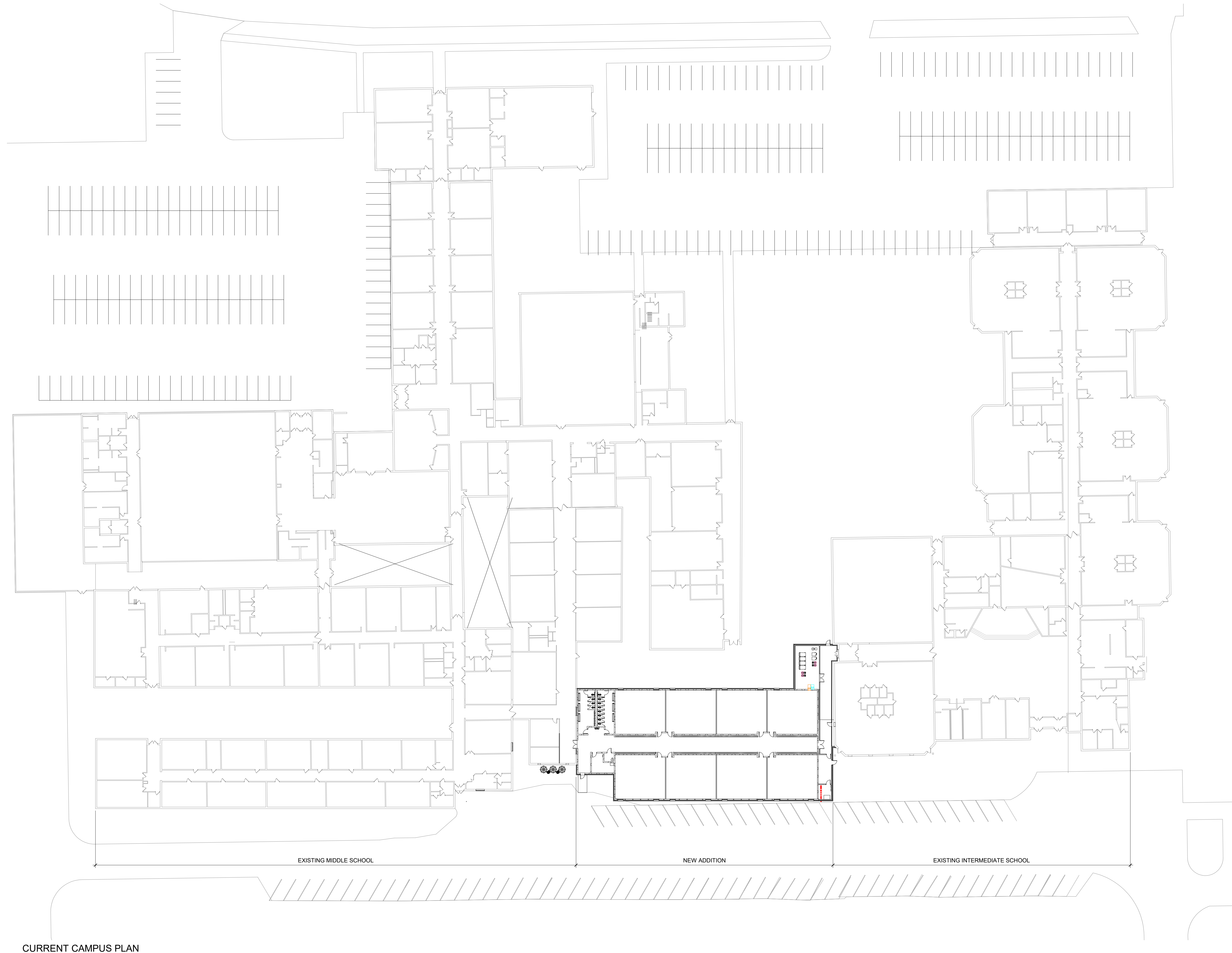
DESIGNED	DCD	DRAWN	DCD
FIELD	ECB/MCP	FIELD BOOK	MGB/SS
CHECKED	CSW	CHECK DATE	

SITE UTILITY PLAN

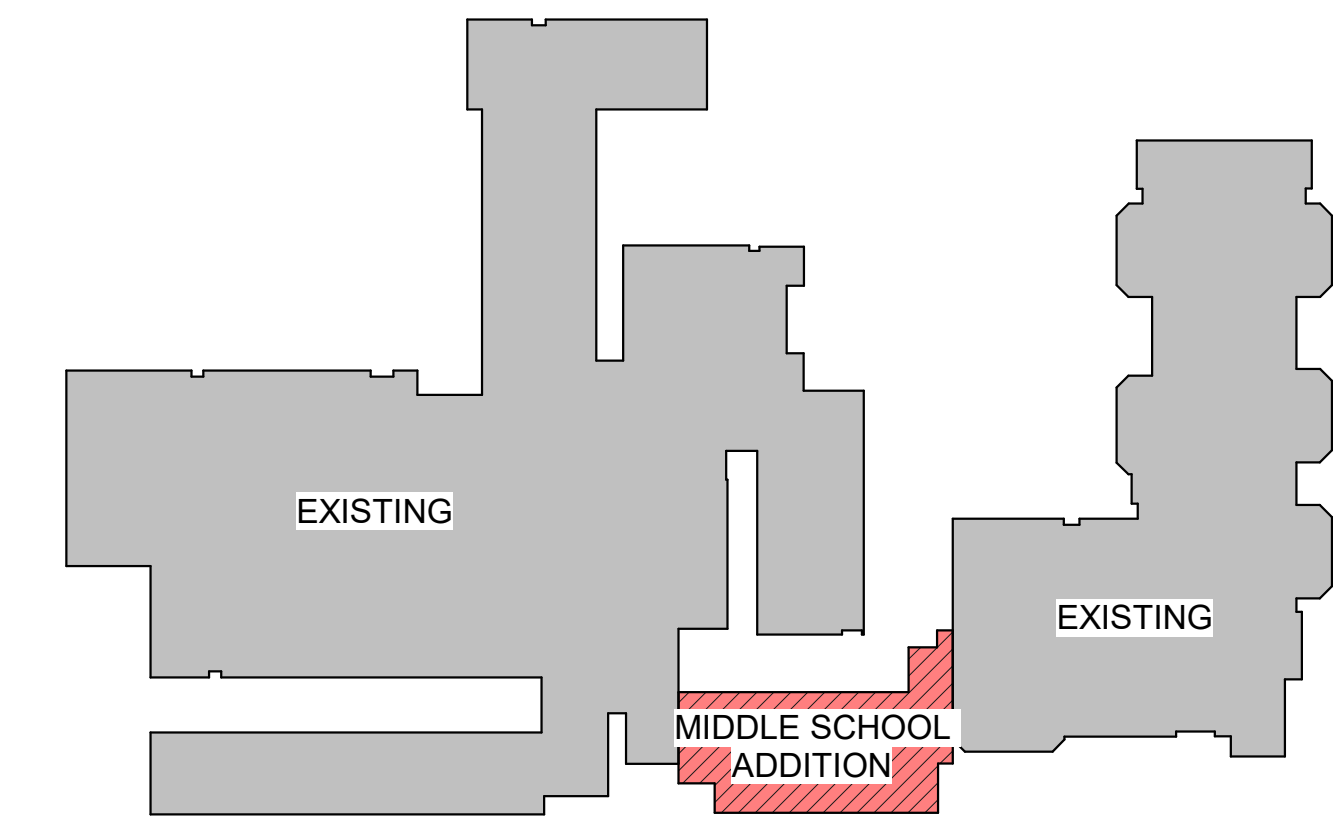
PROJECT NO. 21-0922
 DRAWING ISSUED DATE: 08/12/2022
 SHEET **C301**

BENCHMARKS:
 2. SOUTHEAST CORNER CONCRETE PAD FOR ELECTRIC TRANSFORMER
 SOUTHEAST CORNER BASEBALL FIELD - ELEV 899.04 (FROM TOPOGRAPHIC SURVEY BY ALLSTATE CONSULTANTS, P.C. JOB #04345.01)
 5. CHISELED 1" SOUTH FLANGE BOLT FIRE HYDRANT IN ISLAND EAST OF SCHOOL - ELEV 902.32

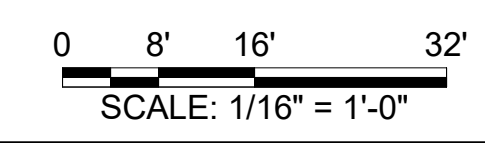
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C:\Users\jstern\Documents\21-0832-Hallsville Middle School Additions_20A_1010159810.rvt



CURRENT CAMPUS PLAN
1/32" = 1'-0"



KEY PLAN- MIDDLE SCHOOL ADDITION



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REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.
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ISSUED FOR: 08/12/2022

SCHEMATIC DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE MO, 65255

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

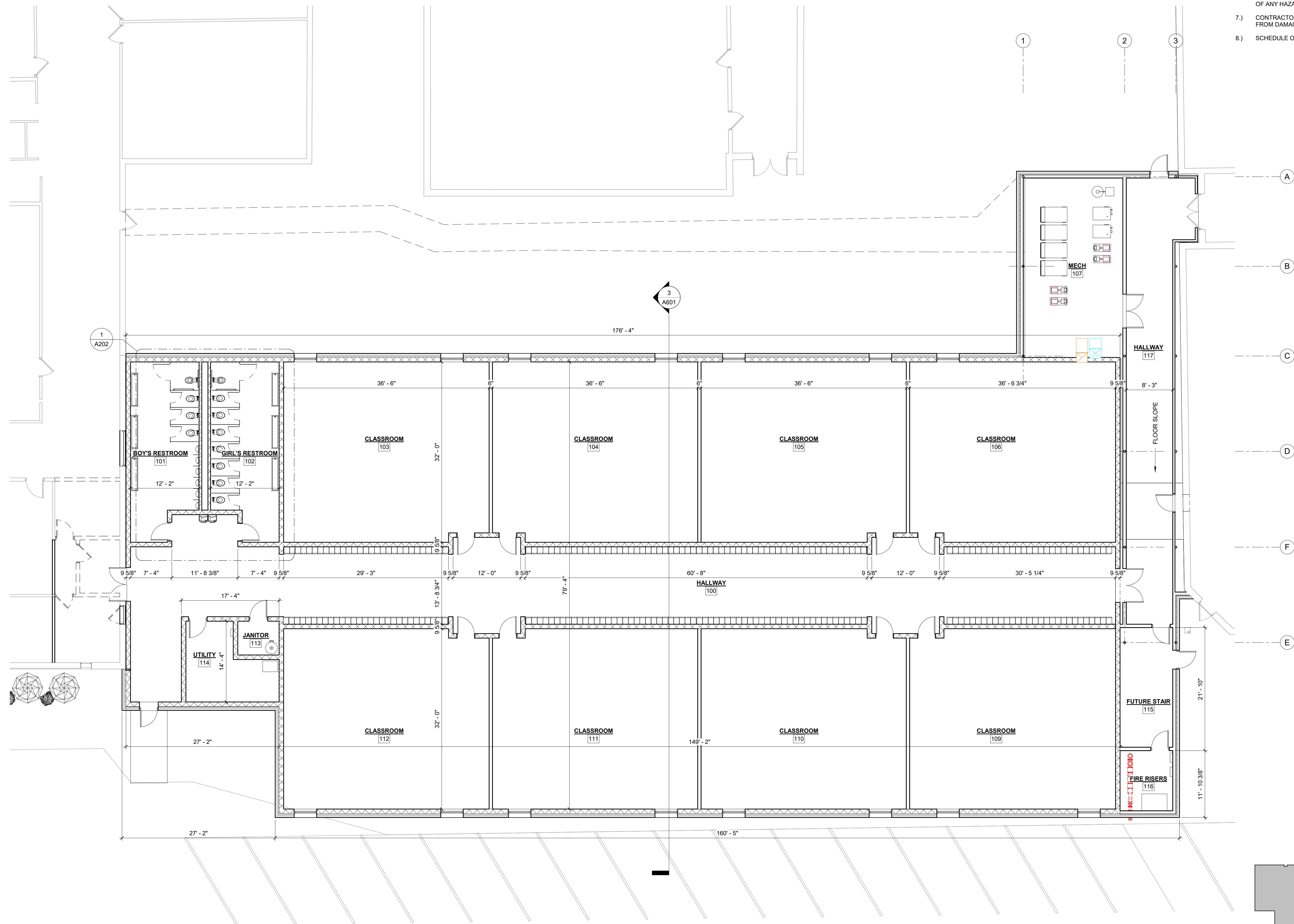
DESIGNED	DRAWN
JRT	JRT
FIELD	FIELD BOOK
CHECKED	CHECK DATE
HMC	

SHEET TITLE
EXISTING CAMPUS PLAN

PROJECT NO.
21-0832

DRAWING ISSUED DATE:
08/12/2022

SHEET
A100



- GENERAL NOTES**
- THE CONTRACTOR(S) SHALL CONFIRM CONDITIONS DESCRIBED HEREIN AND TELL THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO BEGINNING CONSTRUCTION.
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 - 2018 INTERNATIONAL PLUMBING CODE
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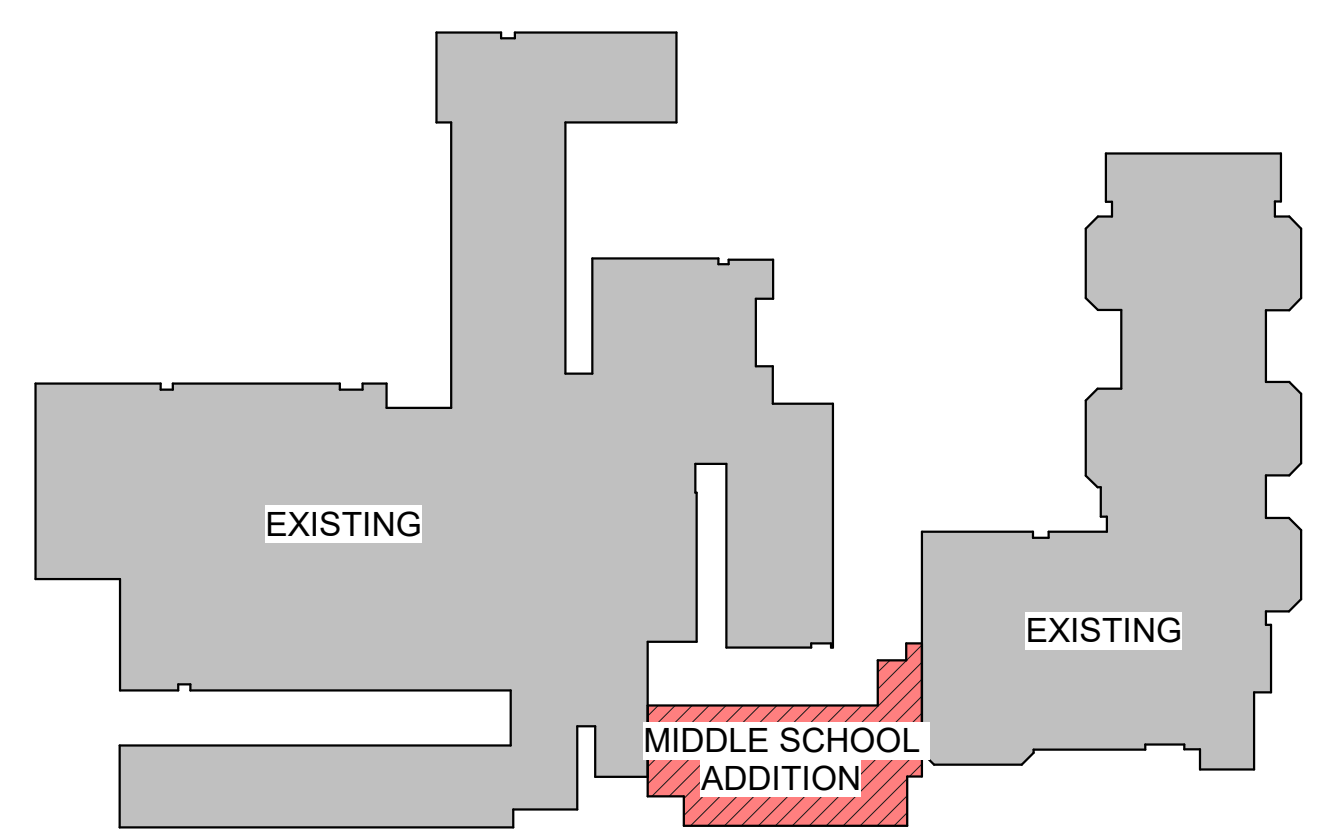
REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.
1			

ISSUED FOR: 08/12/2022
 SCHEMATIC DESIGN

**PRELIMINARY
 NOT FOR CONSTRUCTION**

HALLSVILLE MIDDLE SCHOOL ADDITION
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE MO, 65255



KEY PLAN- MIDDLE SCHOOL ADDITION

Non-Reduced Sheet Size 30" x 42"
 Full sized plans have been prepared using standard scales.
 Reduced sized plans may not conform to standard scales.

DESIGNED	DRAWN
JRT	JRT
FIELD BOOK	FIELD BOOK
CHECKED	CHECK DATE
HMC	

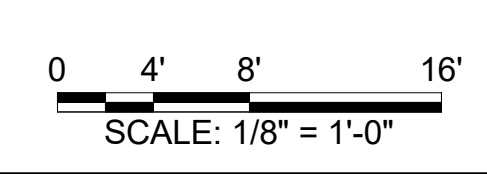
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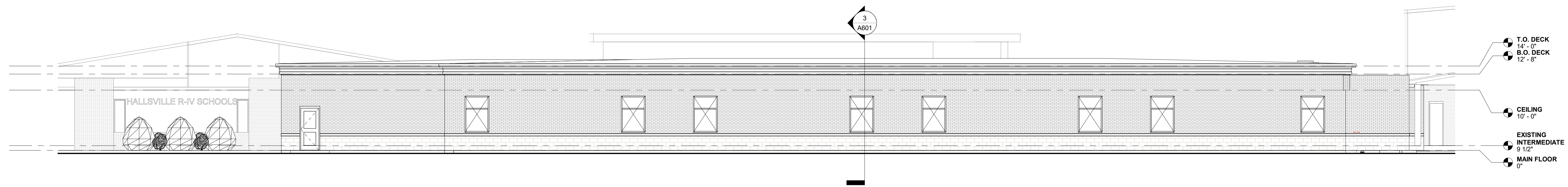
MAIN LEVEL FLOOR PLAN

PROJECT NO. 21-0932
 DRAWING ISSUED DATE: 08/12/2022
 SHEET

A101

1 MAIN FLOOR PLAN
 1/8" = 1'-0"





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

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

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REVISION HISTORY			
NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR: 08/12/2022

SCHEMATIC DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE MO, 65255

Non-Reduced Sheet Size 30" x 42"
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Reduced sized plans may not conform to standard scales.

DESIGNED	HMC	DRAWN	JRT
FIELD	HMC	FIELD BOOK	JRT
CHECKED	HMC	CHECK DATE	

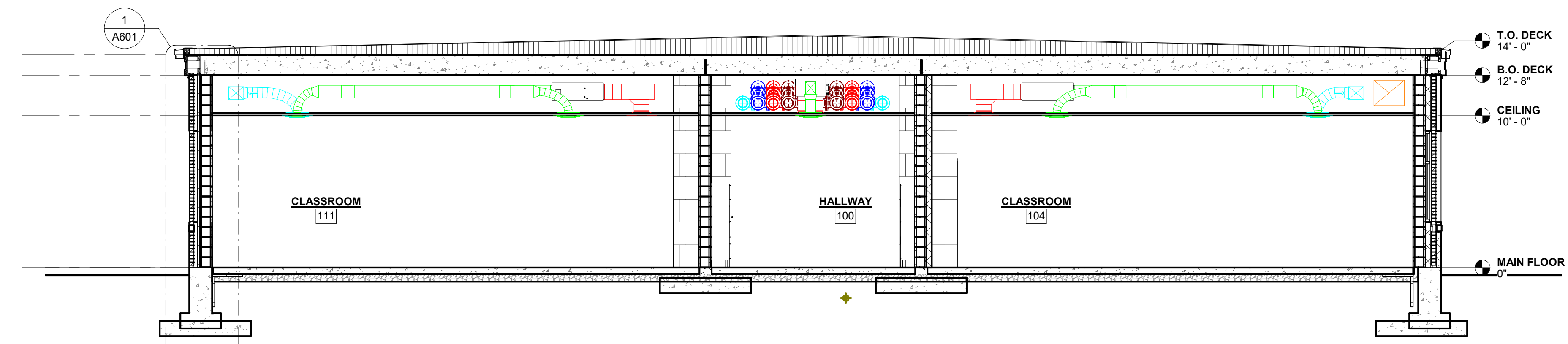
SHEET TITLE

EXTERIOR BUILDING ELEVATIONS

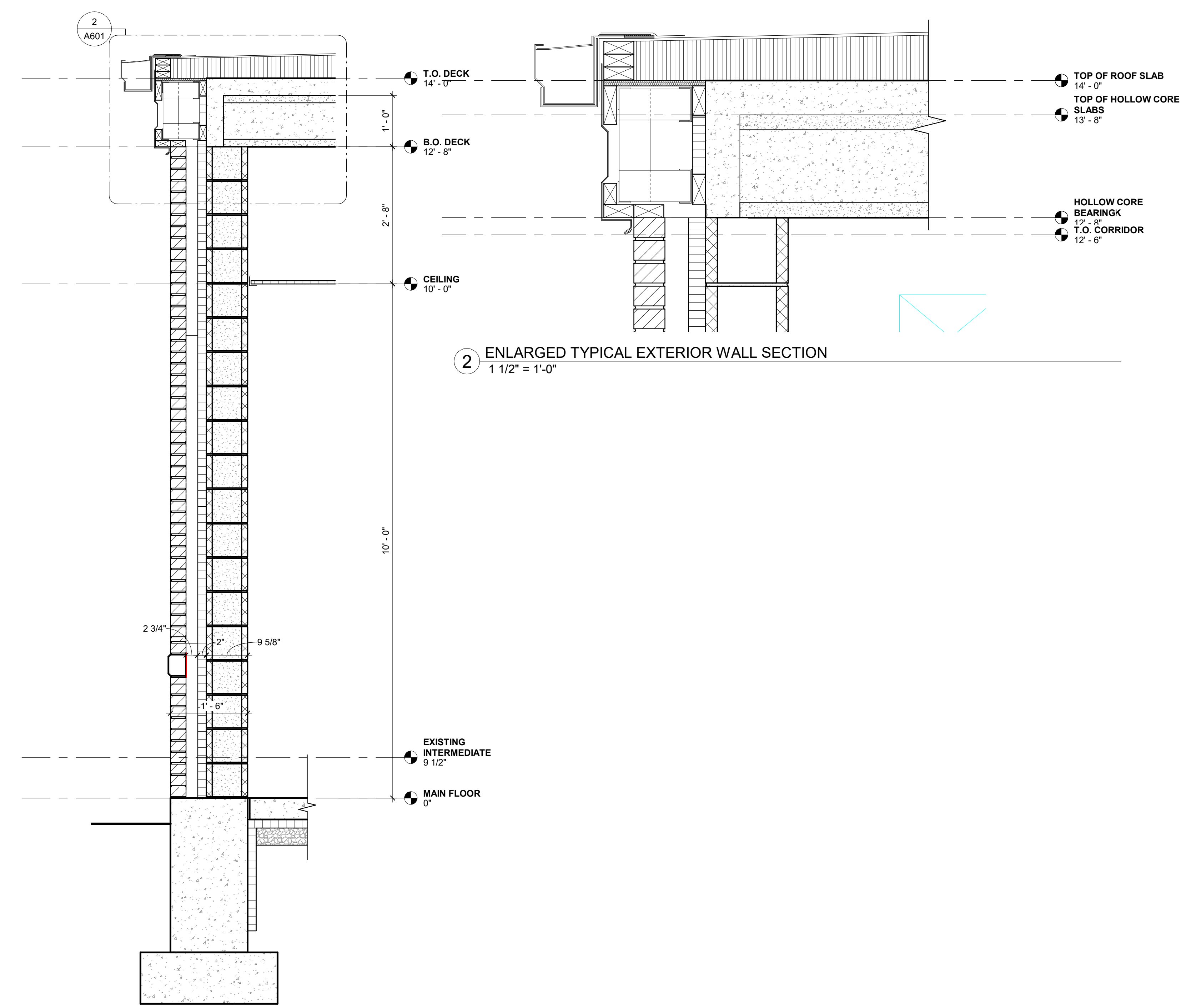
PROJECT NO. 21-4982
DRAWING ISSUED DATE: 08/11/2022

SHEET
A501

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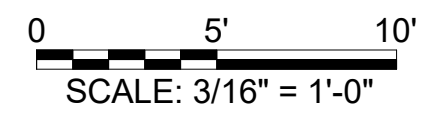


3 SECTION A
3/16" = 1'-0"



2 ENLARGED TYPICAL EXTERIOR WALL SECTION
1 1/2" = 1'-0"

1 TYPICAL EXTERIOR WALL SECTION
3/4" = 1'-0"



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REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR: 08/12/2022

SCHEMATIC DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE MO, 65255

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
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DESIGNED	HMC	DRAWN	JRT
FIELD	HMC	FIELD BOOK	
CHECKED	HMC	CHECK DATE	

SHEET TITLE

BUILDING SECTIONS

PROJECT NO.
21-5032

DRAWING ISSUED DATE:
08/11/2022

SHEET
A601

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REVISION HISTORY		
DESCRIPTION	DATE	APPR

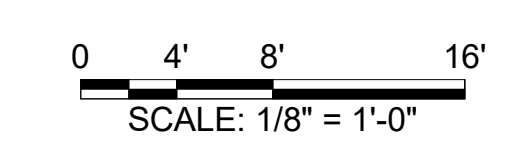
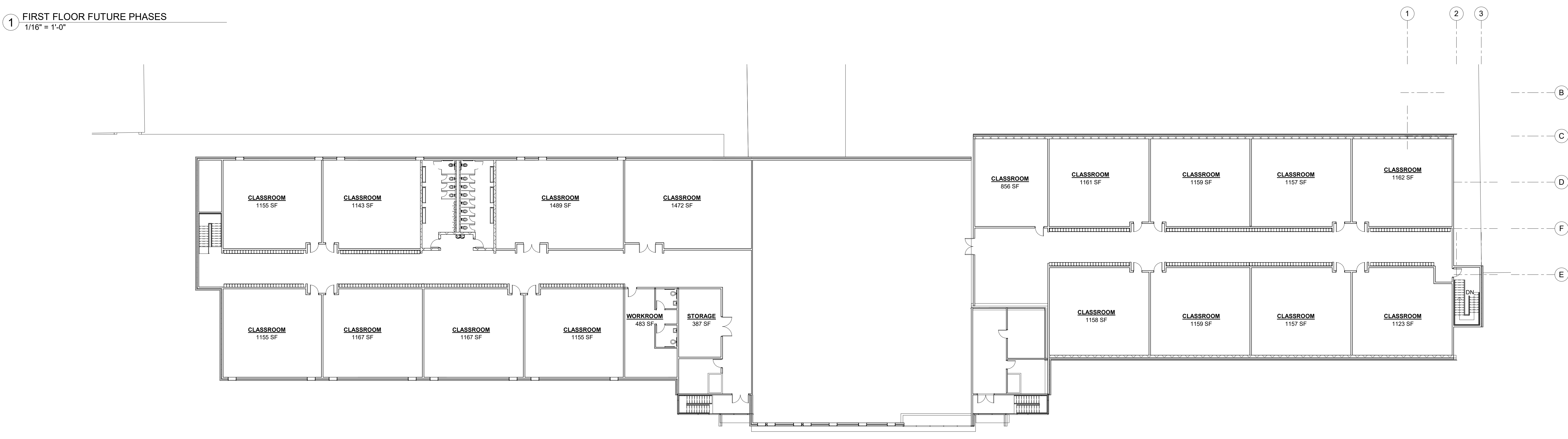
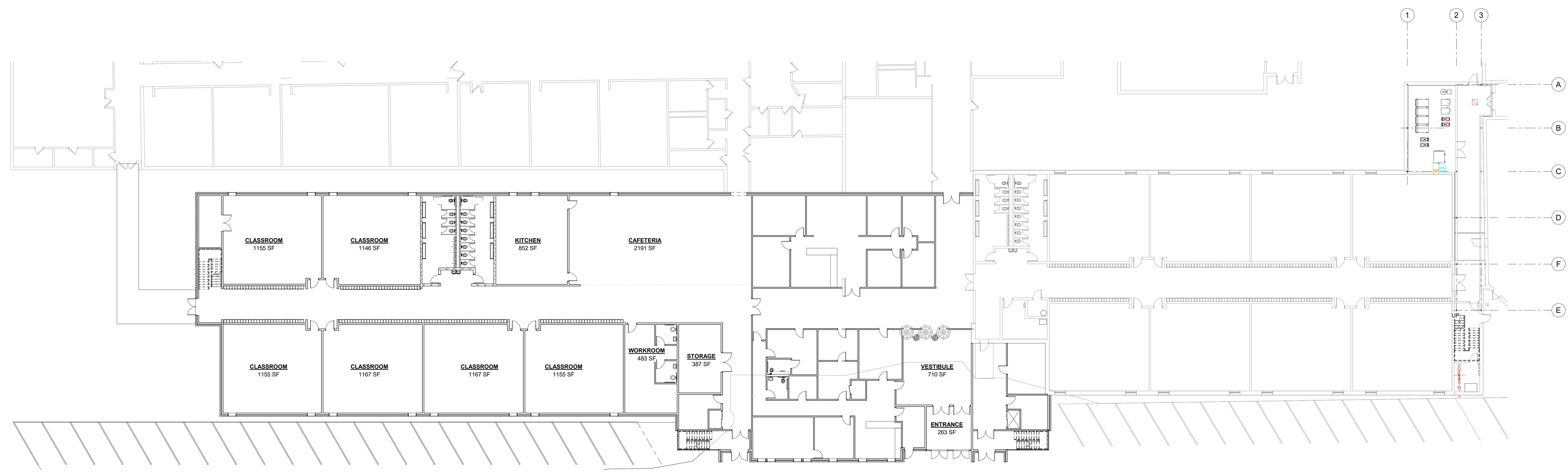
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SCHEMATIC DESIGN

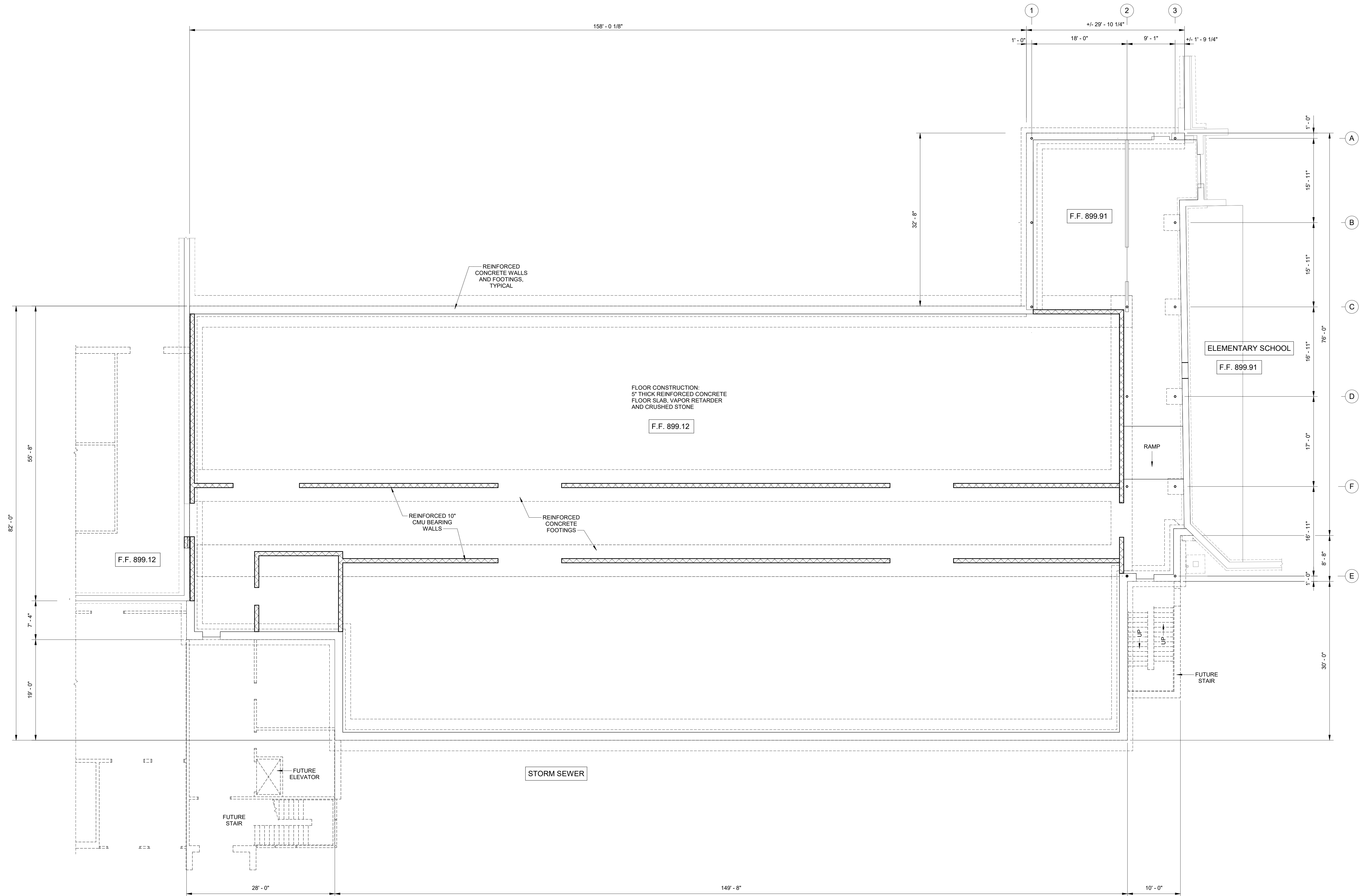
PRELIMINARY
 NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E
 HALLSVILLE MO, 65255

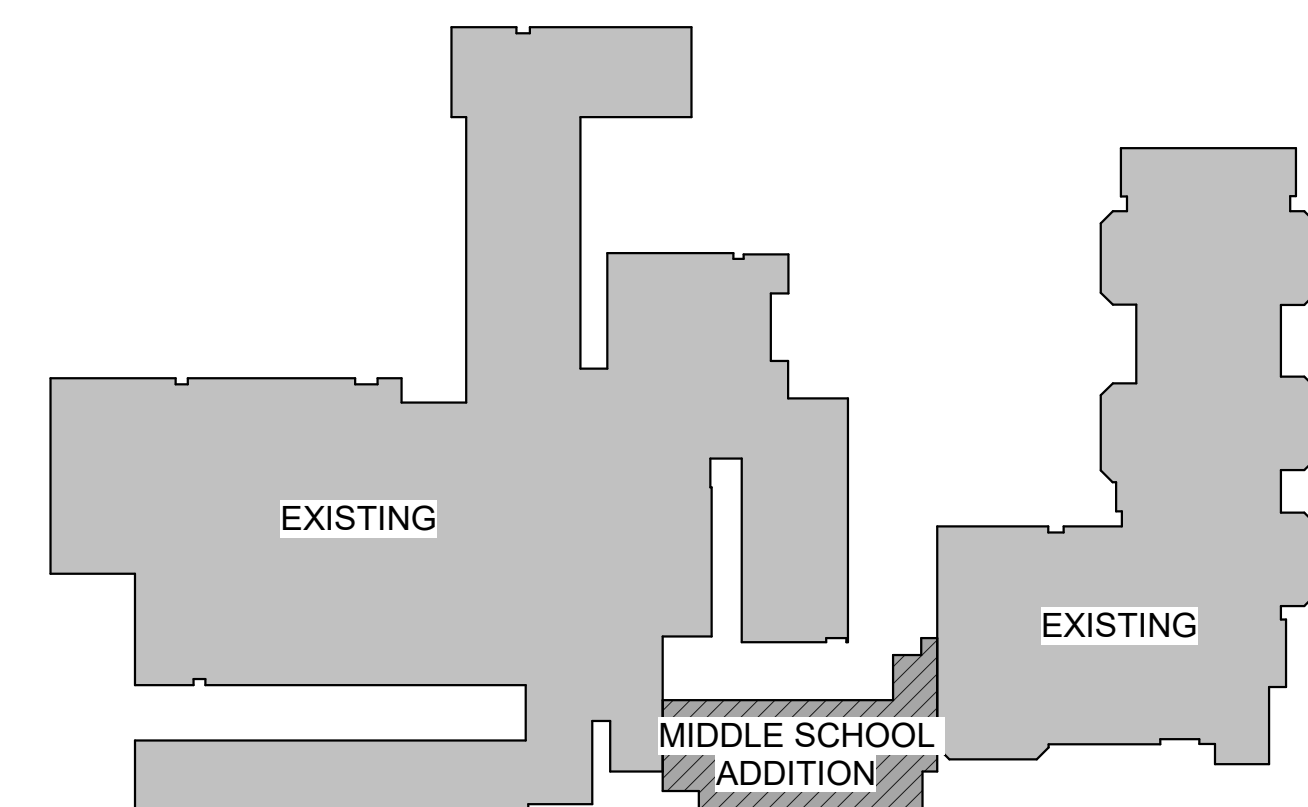
Non-Reduced Sheet Size 30" x 42"	
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DESIGNED	JRT
FIELD	JRT
CHECKED	HMC
SHEET TITLE	
FUTURE PHASES	
PROJECT NO. 21-4982	
DRAWING ISSUED DATE: 08/11/2022	
SHEET	
X100	



8/11/2022 11:48:46 AM C:\Users\new KLINGNER\Documents\SSD_21-5652_HALLSVILLE MIDDLE SCHOOL ADDITIONS.dwg



1 FOUNDATION PLAN
1/8" = 1'-0"



KEY PLAN- MIDDLE SCHOOL ADDITION

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

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REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR: 08/12/22

SCHEMATIC REVIEW SET

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE MO. 65255

Non-Reduced Sheet Size 30" x 42"

Field notes have been prepared using standard scales.

Reduced sheet plans may not conform to standard scales.

DESIGNED	NRM	DRAWN	EAW
FIELD	NRM	FIELD BOOK	EAW
CHECKED	KTH	CHECK DATE	

SHEET TITLE

FOUNDATION PLAN

PROJECT NO. 21-5652

DRAWING ISSUED DATE: 08/12/22

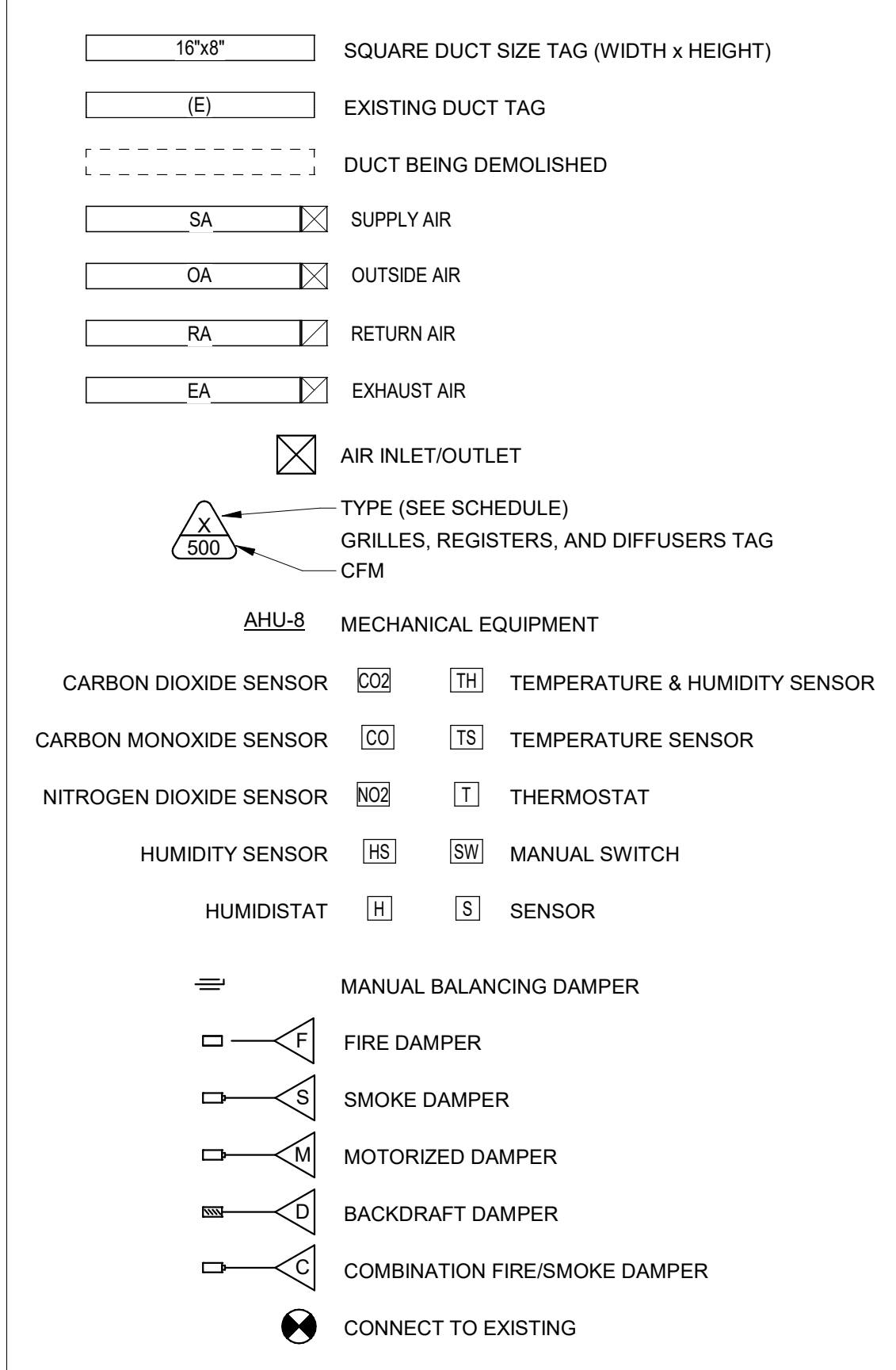
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S101

GENERAL HVAC NOTES:

1. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO NFPA 90A, SMACNA, ASHRAE AND ALL OTHER STATE AND LOCAL CODES.
2. SUPPLY (AS A MINIMUM) FRESH AIR REQUIRED BY ANSI/ASHRAE STANDARD 62-1989 AS NOTED ON PLANS.
3. UPON COMPLETION OF CONSTRUCTION, REPLACE ALL FILTERS.
4. ALL 90 DEGREE BENDS IN AIR DUCTS SHALL HAVE TURNING VANES. VANES SHALL BE SINGLE THICKNESS WITH RADIUS = 4.5" AND SPACING = 2.25".
5. ALL MAIN AND BRANCH DUCTS SHALL BE RECTANGULAR GALV. STEEL SIZED AS NOTED ON THE PLANS. SIZE SHALL REFER TO UNOBSTRUCTED INTERNAL AIRFLOW AREA. DUCTWORK SHALL BE MOUNTED TIGHT TO JOISTS ABOVE OR RUN IN SPACE BETWEEN JOISTS. U.N.O. CLEARANCES FROM FINISH FLOOR SHALL BE MAXIMIZED WHERE POSSIBLE.
6. ALL RUNOUTS TO DIFFUSERS SHALL HAVE A VOLUME CONTROL DAMPER AT THE CONNECTION TO THE BRANCH OR MAIN DUCT.
7. FLEXIBLE DUCT SHALL BE A MAXIMUM OF FIVE (5) FEET IN LENGTH AND SHALL BE ROUTED TO MINIMIZE LENGTH WITH NO KINKS OR SHARP BENDS.
8. CONTRACTOR SHALL CONNECT RUNOUT TO CONTRACTOR FABRICATED BOOT AS NECESSARY TO ACCOMMODATE DIFFUSER.
9. A FLEXIBLE CONNECTION BETWEEN MECHANICAL UNITS AND BOTH THE SUPPLY AND RETURN AIR DUCTWORK IS REQUIRED FOR VIBRATION ISOLATION AND NOISE REDUCTION.
10. BALANCE ALL MECHANICAL EXHAUST, MAKE-UP AIR, HEATING AND AIR CONDITIONING SYSTEMS WITHIN 10% OF THE FLOWRATES NOTED ON PLANS.
11. INSULATE DUCTWORK AS REQUIRED IN THE SPECIFICATIONS.
12. SERVICE OPENINGS SHALL BE LOCATED IN THE DUCTWORK BEFORE AND AFTER EACH TURNING VANE. SEE SPECIFICATIONS AND NFPA 90A FOR LOCATIONS OF ADDITIONAL ACCESS DOORS AND PANEL REQUIRED THROUGHOUT THE AIR DISTRIBUTION SYSTEM.
13. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE TO INCREASE CLEARANCES BELOW.
14. LEAVE ADEQUATE SPACE FOR INSTALLATION OF PLUMBING PIPES. COORDINATE WITH PLUMBING CONTRACTOR.
15. INSTALL/FABRICATE FILTER RACK AND MIXING BOX FOR ALL FURNACES. MIXING SECTION SHALL BE DOWNSTREAM OF THE FILTERS AND FRESH AIR VOLUME SHALL BE CONTROLLED BY A DAMPER AT THE ENTRANCE TO THE BOX.

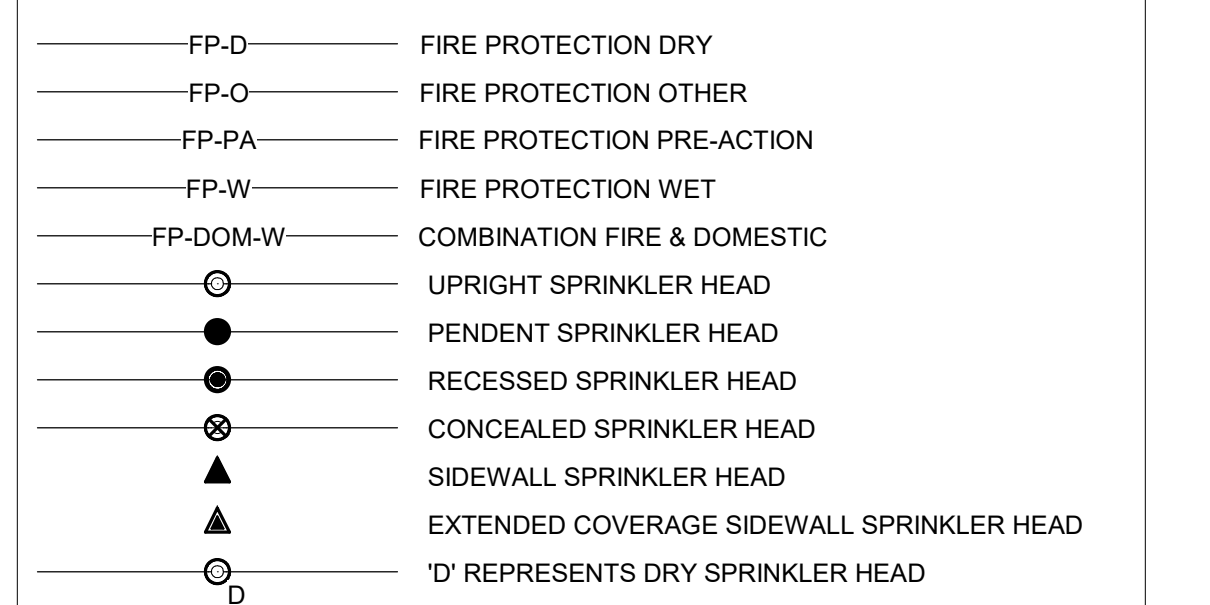
HVAC SYMBOLS



FIRE PROTECTION NOTES:

1. THE INFORMATION PROVIDED ON THE FIRE PROTECTION DRAWINGS IS INTENDED TO SERVE AS THE "PRELIMINARY PLAN" FOR THE PROJECT AS DEFINED BY NFPA 13 FOR THE PURPOSE OF PRELIMINARY BUILDING PERMIT APPROVAL AND CONSTRUCTION BIDDING. "WORKING PLANS" IN ACCORDANCE WITH THE "HYDRAULIC CALCULATION METHODS" DEFINED BY NFPA 13, SHALL BE DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO PURCHASE OR INSTALLATION OF ANY FIRE PROTECTION SYSTEM EQUIPMENT.
2. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DRAWINGS ASSOCIATED WITH THE PROJECT TO UNDERSTAND BUILDING COMPONENTS AND ARRANGEMENTS (INCLUDING CONCEALED SPACE THAT COULD IMPACT THE FINAL DESIGN OF THE FIRE SPRINKLER SYSTEM).
3. ALL AREAS OF THE BUILDING SHALL BE PROVIDED WITH SPRINKLERS EXCEPT WHERE SPRINKLER OMISSION IS PERMITTED BY NFPA 13.
4. PRELIMINARY FLOW ANALYSIS HAS DETERMINED THAT A FIRE PUMP IS NOT REQUIRED FOR THE PROPOSED FIRE PROTECTION SYSTEM. CONTRACTOR SHALL NOTIFY THE ENGINEER DURING THE BIDDING PERIOD IF THEY BELIEVE A FIRE PUMP IS REQUIRED.

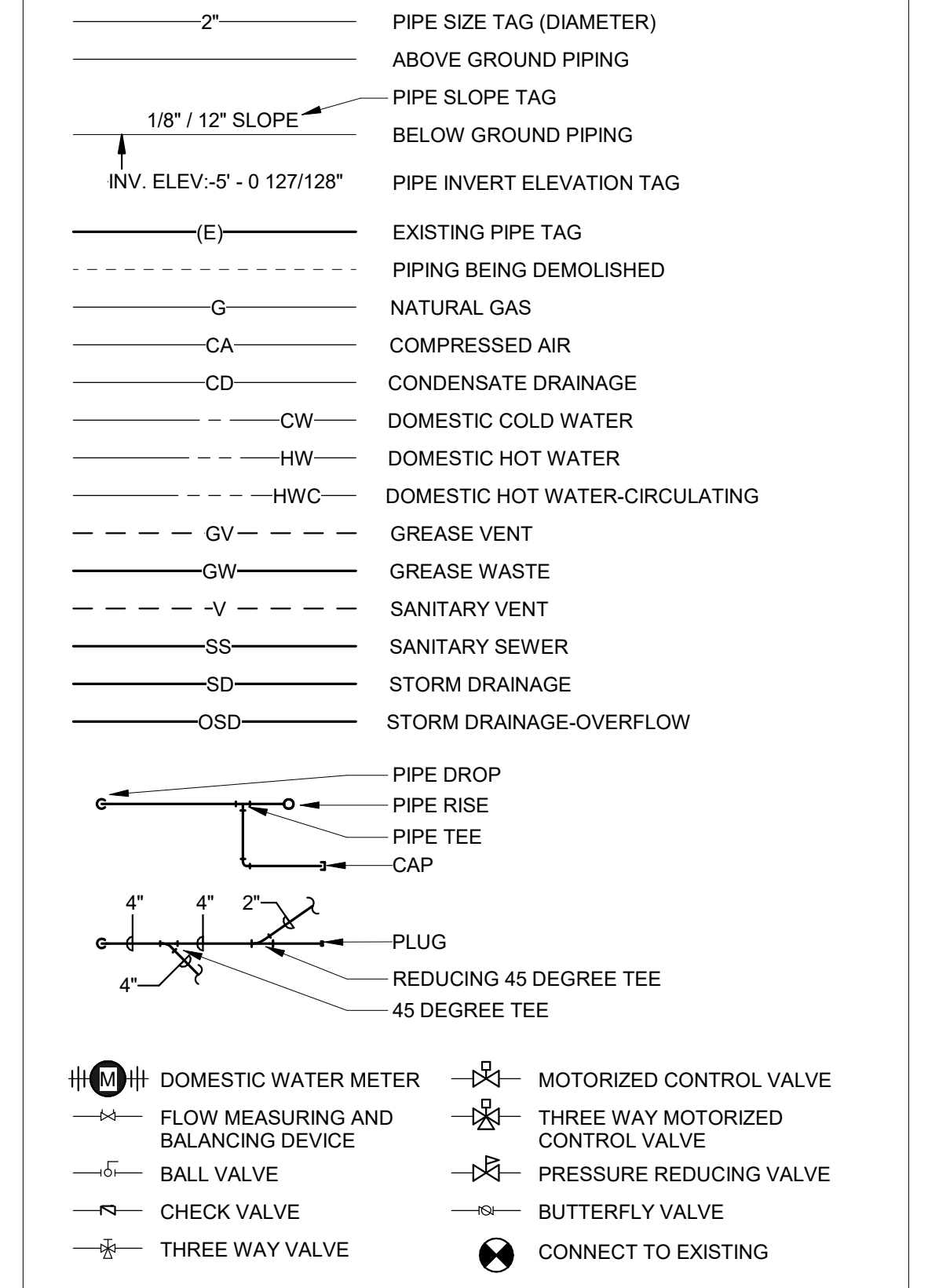
FIRE PROTECTION SYMBOLS



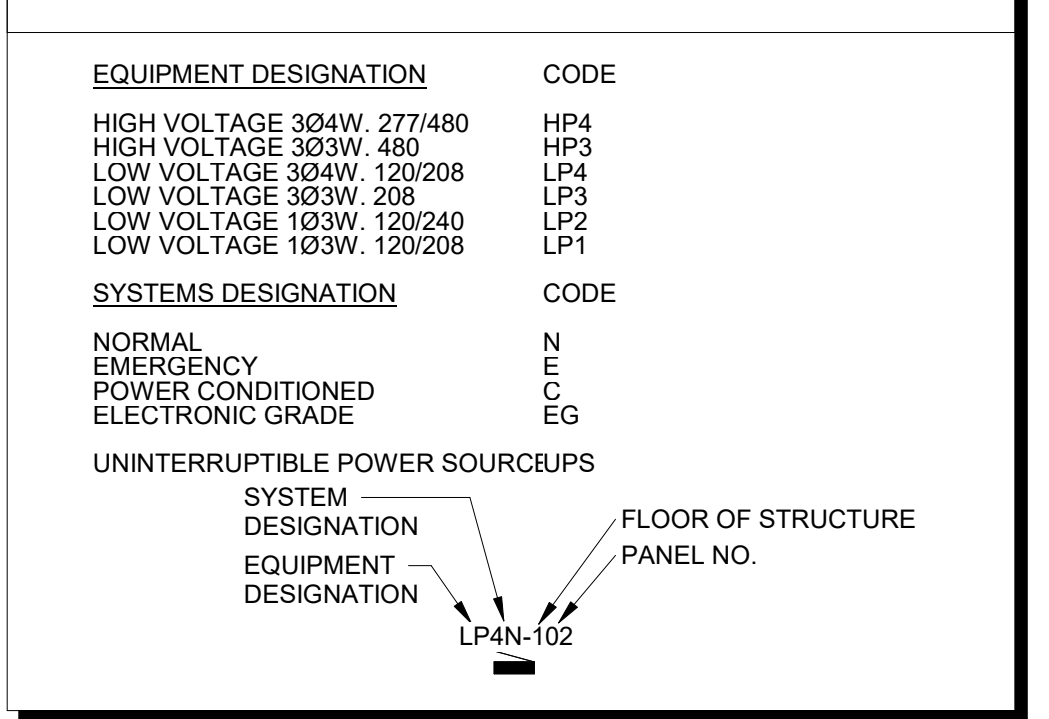
GENERAL PLUMBING NOTES:

1. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
2. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, ACCESSORIES, TOOLS, EQUIPMENT, TRANSPORTATION, LABOR, SERVICES AND OPERATIONS NECESSARY FOR A COMPLETE PLUMBING SYSTEM INCLUDING FIXTURES, SANITARY SEWERS, CLEANOUTS, WATER SUPPLY PIPING, AND NATURAL GAS PIPING.
3. ALL DOMESTIC WATER HEATING SYSTEMS SHALL BE SET TO MAINTAIN A MINIMUM OF 140°F AND HOT WATER CIRCULATION SYSTEMS SHALL BE SET TO MAINTAIN A RETURN WATER TEMPERATURE OF 130°F UNLESS NOTED OTHERWISE.
4. PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES.
5. MATERIALS MUST BE NEW, IN FIRST CLASS CONDITION.
6. WORK SHALL BE DONE BY TRAINED, EXPERIENCED, SKILLED, JOURNEYMAN UNDER AN APPROVED FULL TIME SUPERVISOR. WORK SHALL BE PERFORMED IN A NEAT WORKLIKE MANNER.
7. PIPE INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES.
8. PIPING SHALL BE SEPARATELY HUNG AND ANCHORED, FREE TO EXPAND AND CONTRACT QUIETLY, WITHOUT IMPOSING STRAINS ON STRUCTURE, PIPING, VALVES, DEVICES, AND EQUIPMENT. PIPING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
9. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC COUPLINGS.
10. CONTRACTOR SHALL PERFORM EXCAVATION REQUIRED TO INSTALL HIS WORK.
11. PIPING, ETC., SHALL BE TESTED TO AT LEAST 125 PSI.
12. PIPE HANGERS AND SUPPORTS SHALL MEET THE LOCAL SEISMIC REQUIREMENTS.
13. PROVIDE BALL VALVE ON PIPES TO EACH GROUP OF FIXTURES OR TO EACH PIECE OF EQUIPMENT.
14. PLUMBING CONTRACTOR SHALL INSTALL GAS PIPING TO WITHIN 2" OF EACH APPLIANCE AND TERMINATE WITH A GAS COOK, HVAC CONTRACTOR TO MAKE FINAL CONNECTION.
15. LOCATE ALL SHUT-OFFS, CLEANOUTS, AND OTHER DEVICES REQUIRING ACCESS IN AN EASILY ACCESSIBLE AREA.
16. DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF PIPING. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD PRIOR TO ROUGH-IN.
17. SEE ARCHITECTURAL SHEET FOR FIRE RATED CONSTRUCTION LOCATIONS. ALL PLUMBING PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE UL LISTED OF EQUAL OR GREATER HOUR RATING.

PLUMBING AND PIPING SYMBOLS



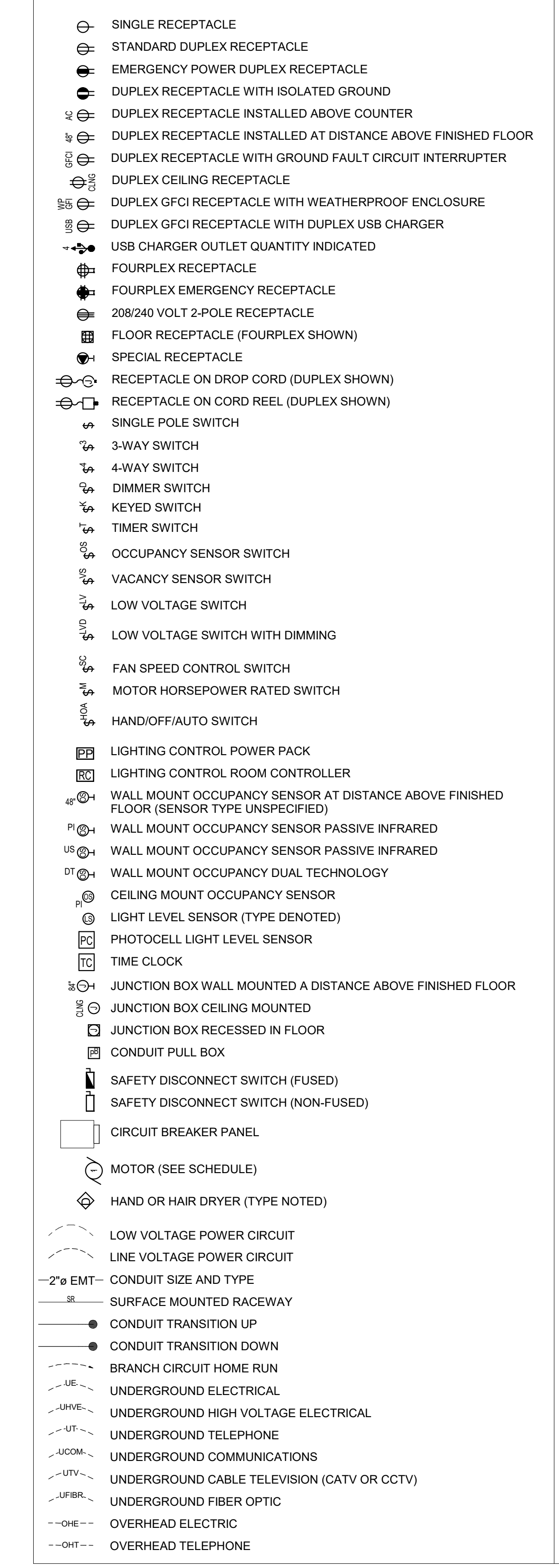
PANELBOARD IDENTIFICATION LEGEND



GENERAL ELECTRICAL NOTES:

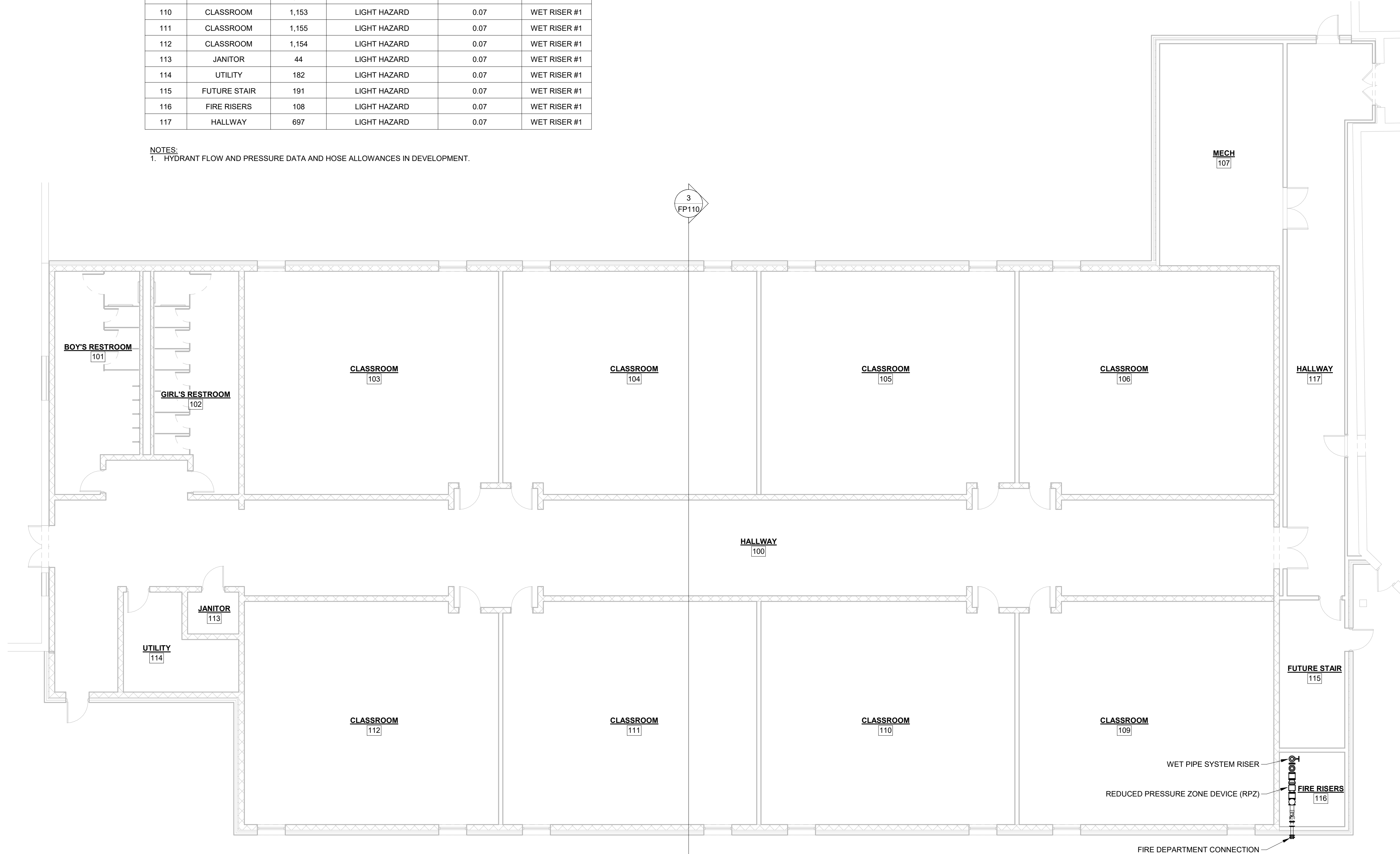
1. APPLICABLE STANDARDS: NFPA-70, NFPA-101, STATE BUILDING CODES, AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1971 AND ALL AMENDMENTS THERETO; EQUIPMENT, DEVICES, APPARATUS, SYSTEMS, AND INSTALLATIONS SHALL BE ENTIRELY SUITABLE AND SAFE FOR EACH INTENDED APPLICATION AND BE IN FULL COMPLIANCE WITH APPLICABLE STANDARDS, REQUIREMENTS, RULES, REGULATIONS, CODES, STATUTES, ORDINANCES, ETC., OF MUNICIPAL, COUNTY, AND STATE GOVERNMENTS, OWNER'S INSURANCE COMPANY, LOCAL UTILITIES, AND LABOR REGULATIONS. NOTHING CONTAINED IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO CONFLICT WITH THESE LAWS, CODES, AND ORDINANCES.
2. DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF ELECTRICAL EQUIPMENT. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD PRIOR TO ROUGH-IN.
3. INSTALLATIONS WHICH INCLUDE ELECTRICAL FIXTURES, DEVICES, CONDUIT, SWITCHES, PANELS, HANGERS, WIRE, CABLE, STANDARDS, ETC., MUST BE ENTIRELY SUITABLE FOR TEMPERATURES, HUMIDITY, DAMP AREAS, VOLTAGE, FREQUENCY, AND ALL INSTALLATION CONDITIONS ENCOUNTERED.
4. INSTALLATION MUST BE ENTIRELY SAFE IN EVERY RESPECT, AND MUST NOT CREATE ANY CONDITIONS OF ANY KIND WHICH WILL BE HARMFUL TO ANY OCCUPANT OF THE BUILDING. IF CONTRACTOR BELIEVES THAT INSTALLATION WILL NOT BE SAFE FOR ALL PEOPLE, HE/SHE SHALL SO REPORT IN WRITING TO ENGINEER BEFORE ANY EQUIPMENT IS PURCHASED OR WORK IS INSTALLED, GIVING EXACT RECOMMENDATIONS, AND REASONS FOR THEM.
5. GROUNDING: ALL GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
6. INSTALLATION OF ELECTRICAL DEVICES SHALL BE COORDINATED WITH OTHER TRADES AS NECESSARY TO PREVENT ANY CONFLICTS DURING CONSTRUCTION.
7. LOW VOLTAGE CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
8. WHERE PHONE/DATA OUTLET LOCATIONS ARE INDICATED INSTALL 1" EMT FROM OUTLET BOX (4"x4"x1/2"MIN.) TO TOP OF FINISHED WALL (ABOVE S.A.T. CEILING) FOR OUTLETS LOCATED IN SURFACE MOUNTED RACEWAY. PROVIDE 2" EMT FROM SURFACE RACEWAY BACK BOX TO ABOVE SAT CEILING.
9. WHERE THERMOSTAT LOCATIONS ARE SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RECESSED WALL BOX WITH CONDUIT TO AN ACCESSIBLE LOCATION IN AREAS WHERE SURFACE MOUNTED BOXES ARE REQUIRED. A SURFACE MOUNTED BOX AND CONDUIT TO 10' AFF SHALL BE PROVIDED (OR TO THE EQUIPMENT LOCATION, WHICHEVER IS CLOSER). THERMOSTAT INSTALLATION AND THE CORRESPONDING LOW VOLTAGE THERMOSTAT WIRING SHALL BE BY THE MECHANICAL CONTRACTOR.
10. LIGHTING: FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS IN ACCORDANCE WITH THE LIGHTING FIXTURE SCHEDULE SHOWN ON THE DRAWINGS. ALL UNITS SHALL BE COMPLETE WITH SUSPENSION ACCESSORIES, CANOPIES, SOCKETS, LOUVERS, FRAMES, AND ROUGH-IN BOXES, WIRED AND ASSEMBLED TO FURNISH A COMPLETE WORKABLE SYSTEM.
11. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PULLED WITH ALL BRANCH CIRCUITS. CONDUIT SHALL NOT BE USED AS A GROUND U.N.O.
12. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, ACCESSORIES, TOOLS, EQUIPMENT, TRANSPORTATION, LABOR, SERVICES AND OPERATIONS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM.
13. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS REQUIRED BY STATE OR LOCAL AUTHORITIES.
14. MATERIALS MUST BE NEW, IN FIRST CLASS CONDITION.
15. CONDUIT SHALL BE SEPARATELY HUNG AND ANCHORED, FREE TO EXPAND AND CONTRACT QUIETLY, WITHOUT IMPOSING STRAINS ON STRUCTURE, DEVICES, AND EQUIPMENT. CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
16. CONTRACTOR SHALL PERFORM EXCAVATION REQUIRED TO INSTALL HIS WORK.
17. SEE ARCHITECTURAL SHEET FOR FIRE RATED CONSTRUCTION LOCATIONS. ALL ELECTRICAL PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE UL LISTED OF EQUAL OR GREATER HOUR RATING.
18. SEE ARCHITECTURAL SHEETS FOR SMOKE PARTITION LOCATIONS. ALL SPACES AROUND ELECTRICAL PENETRATIONS THROUGH A SMOKE PARTITION SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.

ELECTRICAL SYMBOLS

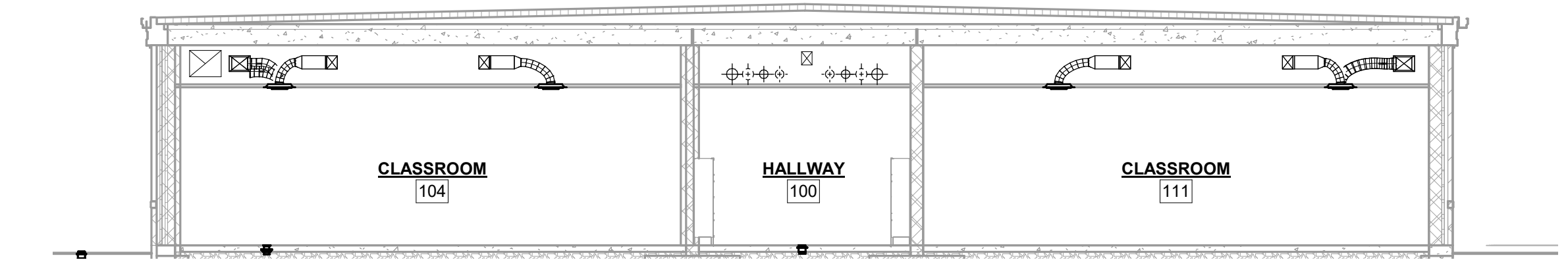


FIRE SUPPRESSION SYSTEM SUMMARY					
ROOM #	ROOM NAME	AREA (SF)	OCCUPANCY HAZARD TYPE (NFPA 13)	MINIMUM REQUIRED DENSITY (GPM/SF)	SYSTEM NAME
100	HALLWAY	2,637	LIGHT HAZARD	0.07	WET RISER #1
101	BOYS' RESTROOM	357	LIGHT HAZARD	0.07	WET RISER #1
102	GIRLS' RESTROOM	357	LIGHT HAZARD	0.07	WET RISER #1
103	CLASSROOM	1,154	LIGHT HAZARD	0.07	WET RISER #1
104	CLASSROOM	1,155	LIGHT HAZARD	0.07	WET RISER #1
105	CLASSROOM	1,153	LIGHT HAZARD	0.07	WET RISER #1
106	CLASSROOM	1,158	LIGHT HAZARD	0.07	WET RISER #1
107	MECH	586	LIGHT HAZARD	0.07	WET RISER #1
109	CLASSROOM	1,158	LIGHT HAZARD	0.07	WET RISER #1
110	CLASSROOM	1,153	LIGHT HAZARD	0.07	WET RISER #1
111	CLASSROOM	1,155	LIGHT HAZARD	0.07	WET RISER #1
112	CLASSROOM	1,154	LIGHT HAZARD	0.07	WET RISER #1
113	JANITOR	44	LIGHT HAZARD	0.07	WET RISER #1
114	UTILITY	182	LIGHT HAZARD	0.07	WET RISER #1
115	FUTURE STAIR	191	LIGHT HAZARD	0.07	WET RISER #1
116	FIRE RISERS	108	LIGHT HAZARD	0.07	WET RISER #1
117	HALLWAY	697	LIGHT HAZARD	0.07	WET RISER #1

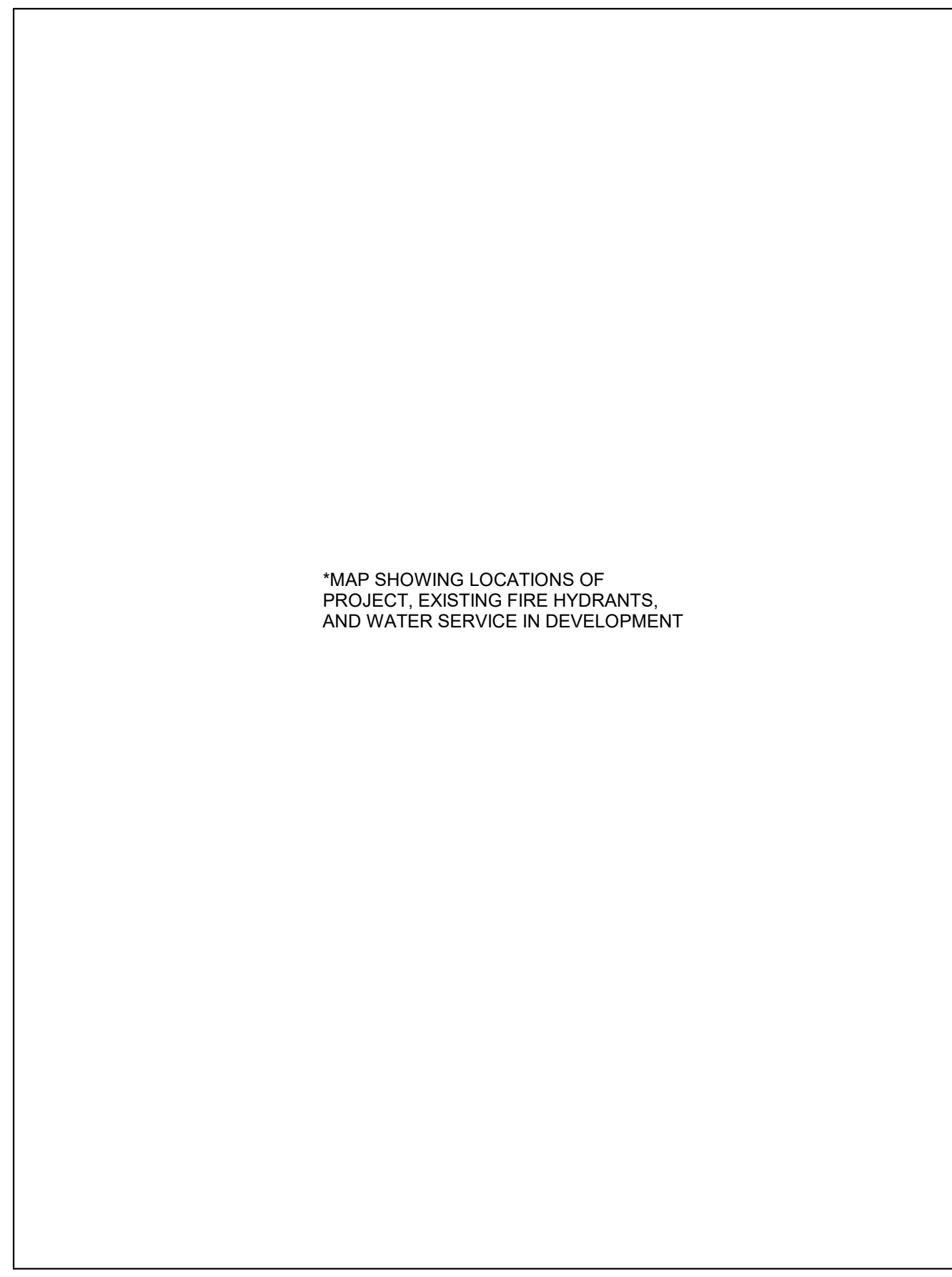
NOTES:
1. HYDRANT FLOW AND PRESSURE DATA AND HOSE ALLOWANCES IN DEVELOPMENT.



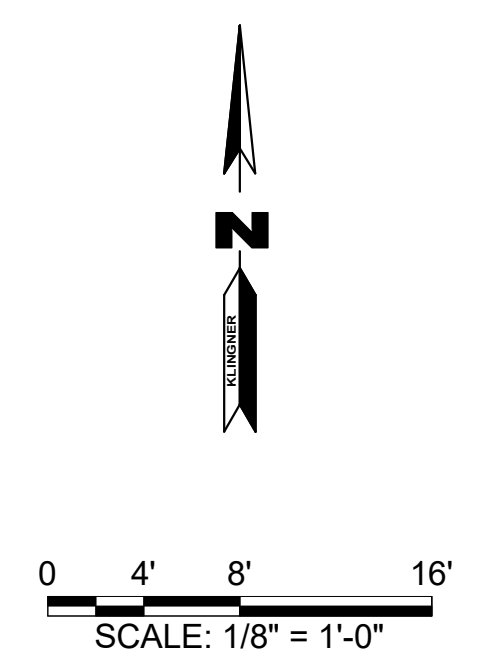
1 FIRE PROTECTION PLAN
1/8" = 1'-0"



3 FIRE PROTECTION ELEVATION VIEW
1/8" = 1'-0"



2 EXISTING FIRE HYDRANT LOCATIONS
NTS



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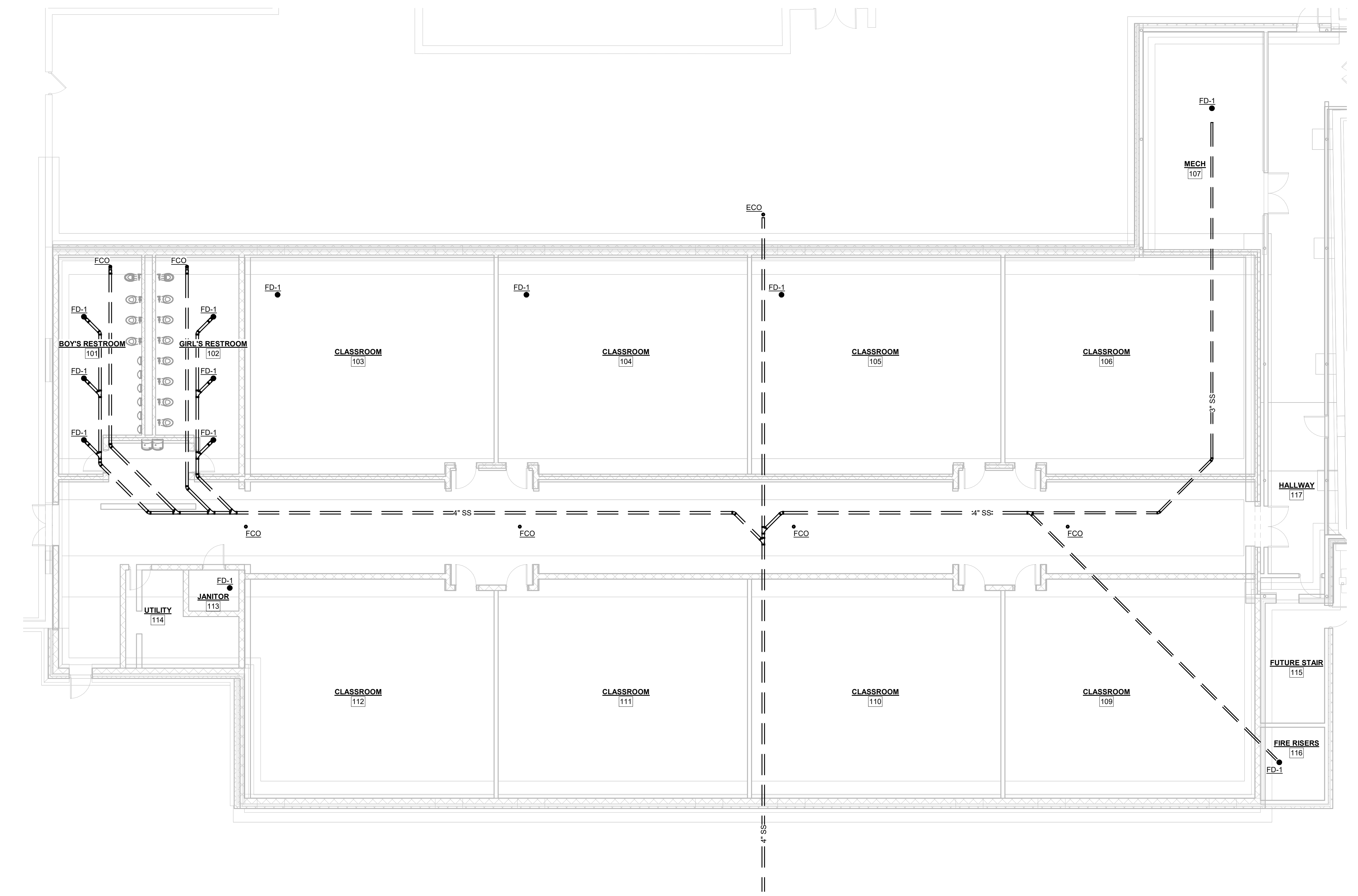
PRELIMINARY
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HALLSVILLE MIDDLE SCHOOL ADDITIONS
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E HALLSVILLE, MO 65255

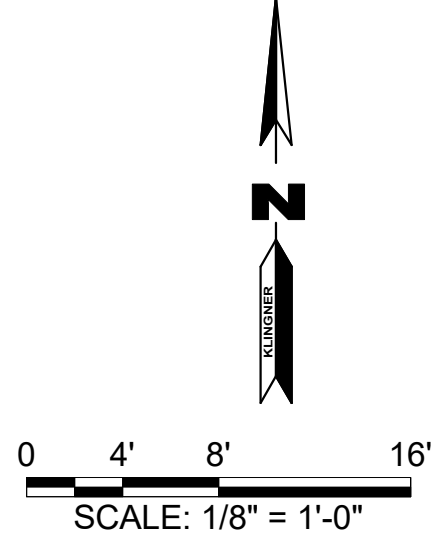
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Full sized plans have been prepared using standard scales.
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SHEET TITLE			
FIRE PROTECTION PLAN			
PROJECT NO. 21-4982			
DRAWING ISSUED DATE: 08/12/22			
SHEET			
FP110			

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1 PLUMBING PLAN - BELOW FLOOR
1/8" = 1'-0"



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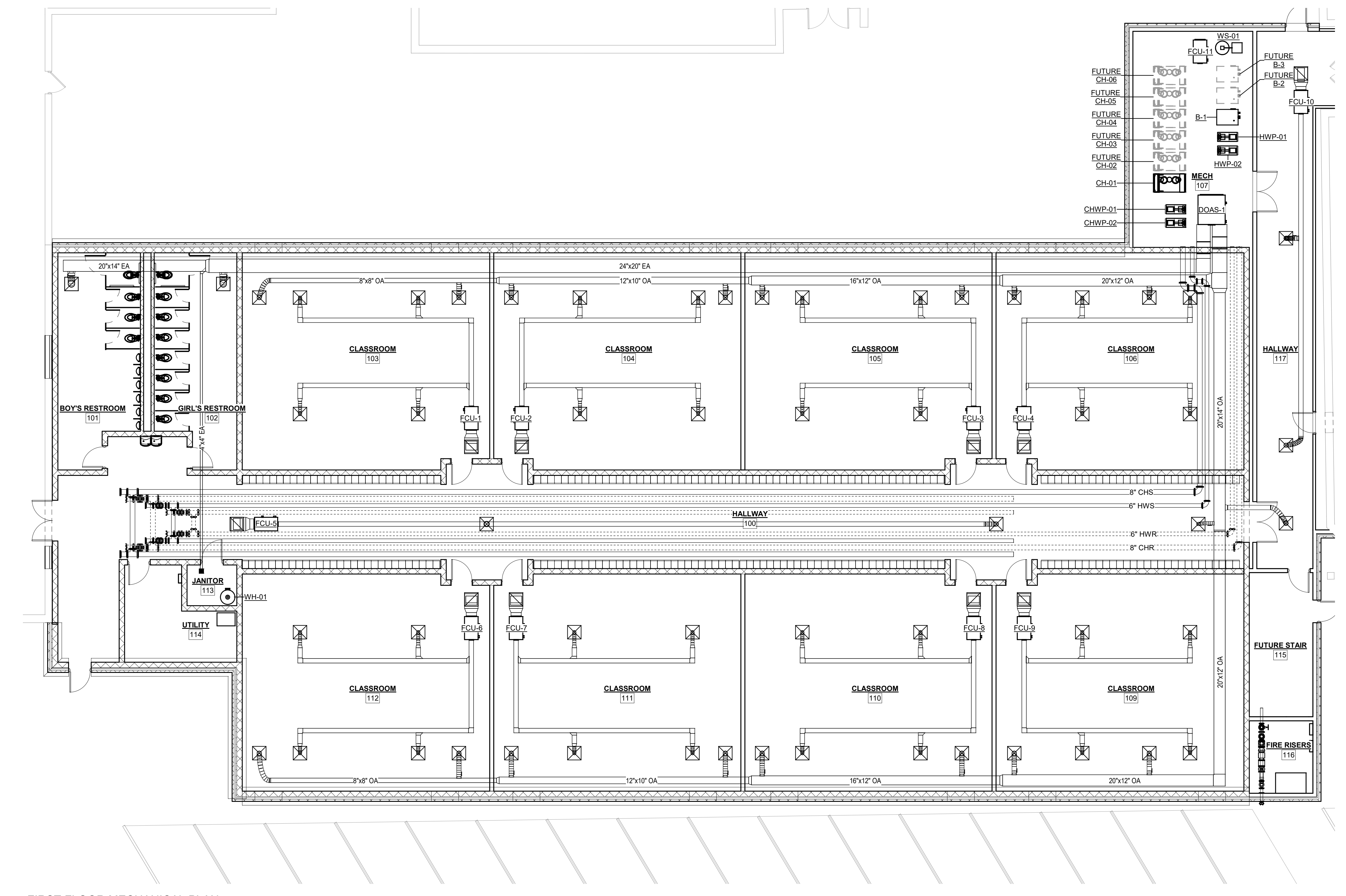
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HALLSVILLE MIDDLE SCHOOL ADDITIONS
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E HALLSVILLE, MO 65255

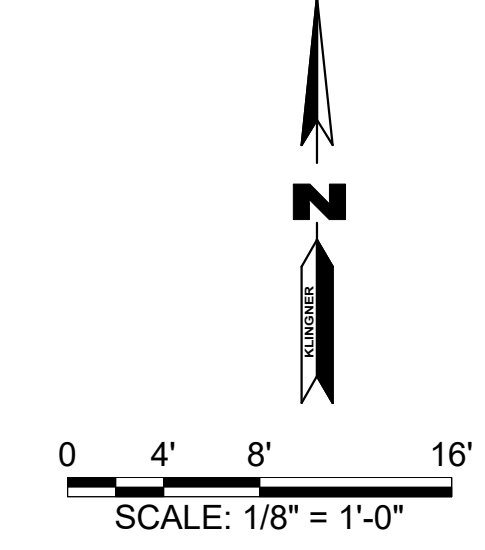
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BELOW FLOOR PLUMBING PLAN			
PROJECT NO. 21-4982			
DRAWING ISSUED DATE: 08/12/22			
SHEET			
P102			

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1 FIRST FLOOR MECHANICAL PLAN
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 421 MO-124 E HALLSVILLE, MO 65255

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Checker	

SHEET TITLE
MECHANICAL FLOOR PLAN

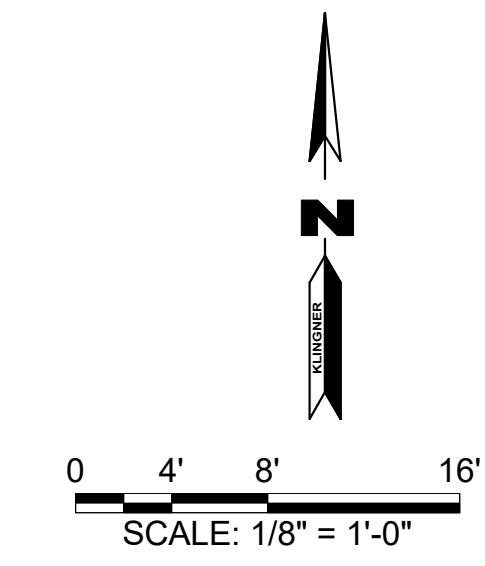
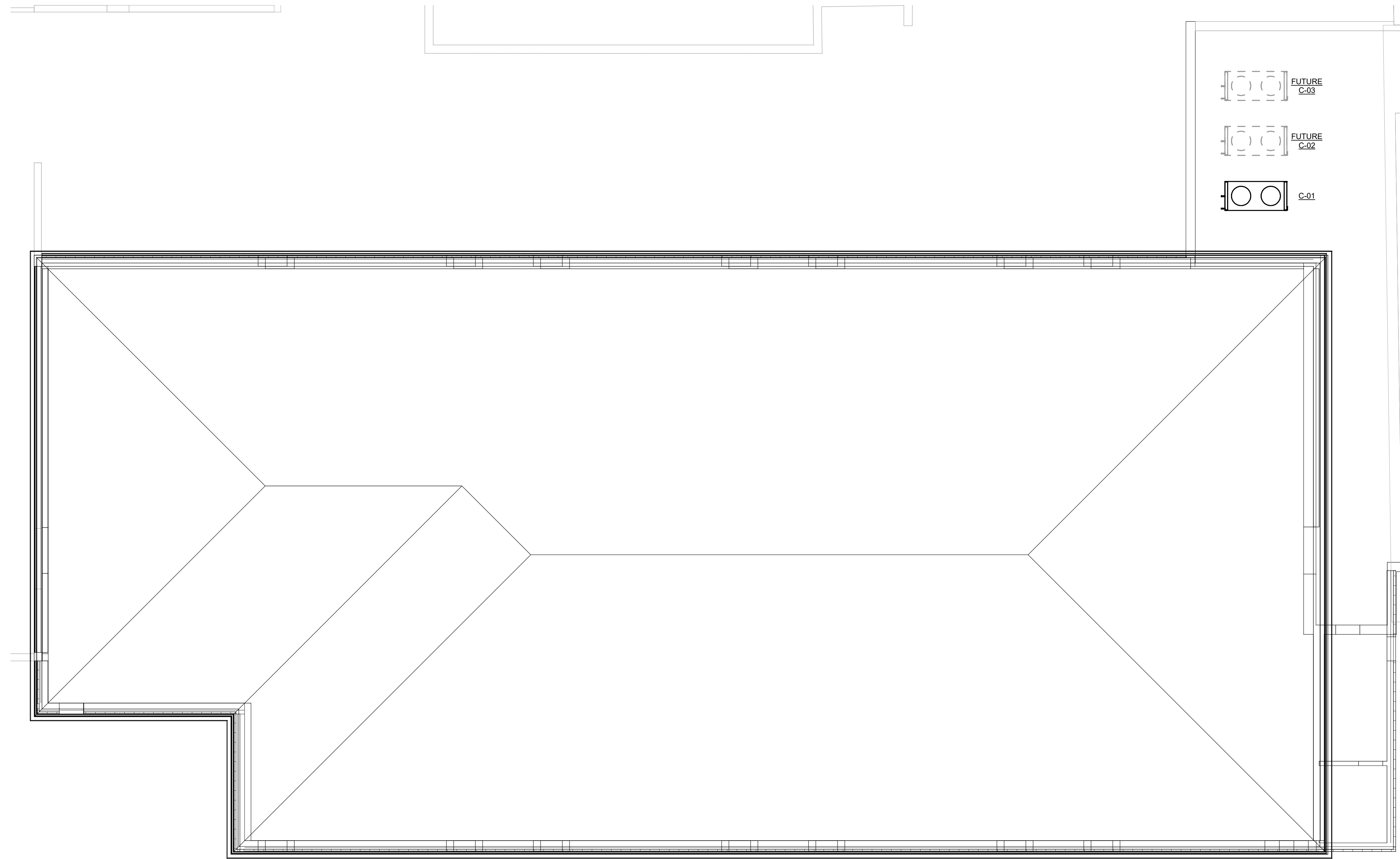
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 21-4982

DRAWING ISSUED DATE:
 06/27/22

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M101

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1 MECHANICAL ROOF PLAN
1/8" = 1'-0"



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Designer	Author
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SHEET TITLE

MECHANICAL ROOF PLAN

PROJECT NO.
21-4982

DRAWING ISSUED DATE:
06/27/22

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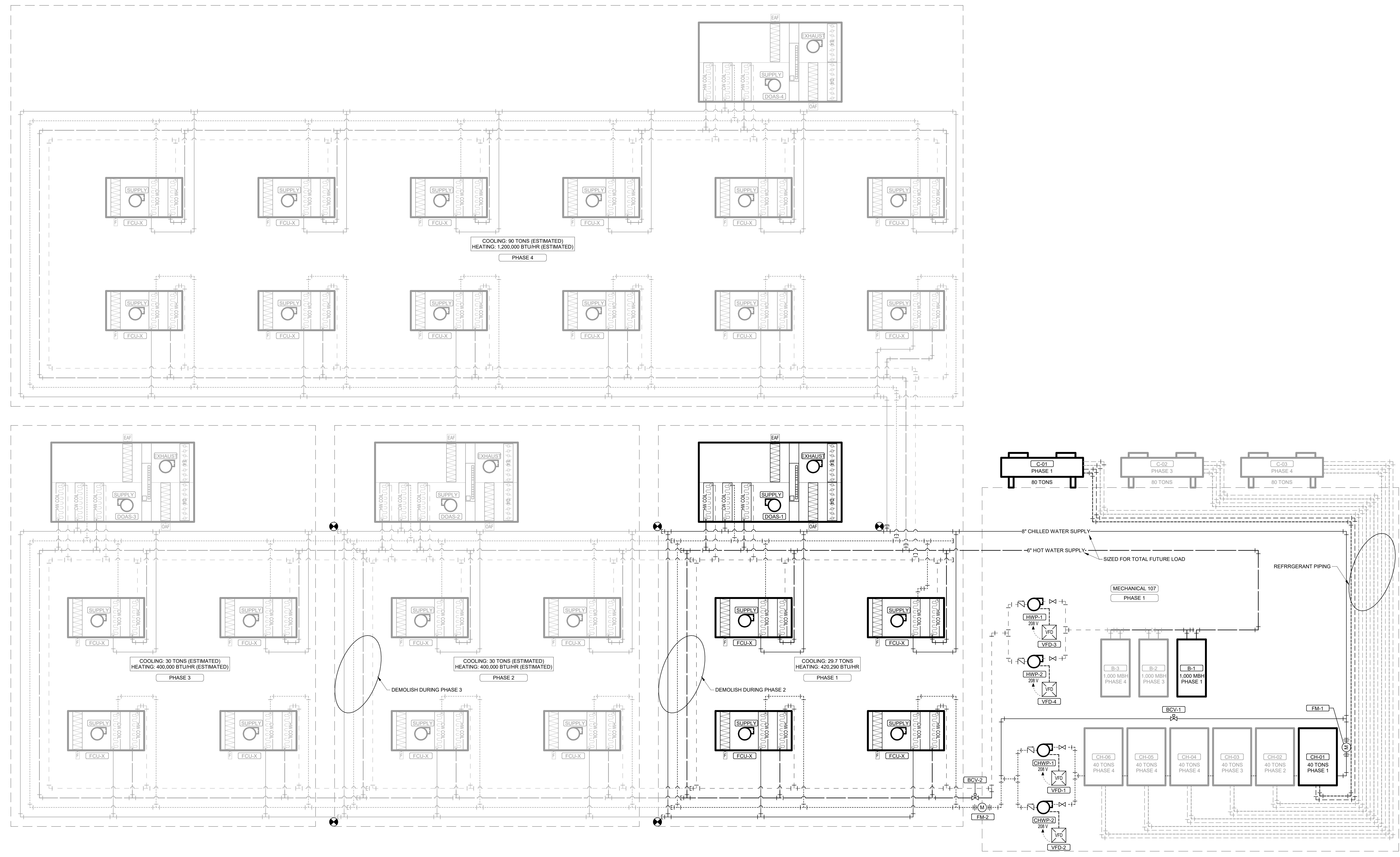
REVISION HISTORY

NO.	DESCRIPTION	DATE	APPR.
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GENERAL NOTES:
 1. THIS SCHEMATIC IS FOR GENERAL LAYOUT ONLY. ACTUAL QUANTITY OF FAN COIL UNITS SHOULD BE DETERMINED BY THE MECHANICAL FLOOR PLAN.



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NO.	DESCRIPTION	DATE	APPR.

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**HALLSVILLE MIDDLE SCHOOL ADDITIONS
 HALLSVILLE SCHOOL DISTRICT
 421 MO-124 E HALLSVILLE, MO 65255**

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 Full sized plans from these projects using standard scales.
 Reduced sized plans may not conform to standard scales.

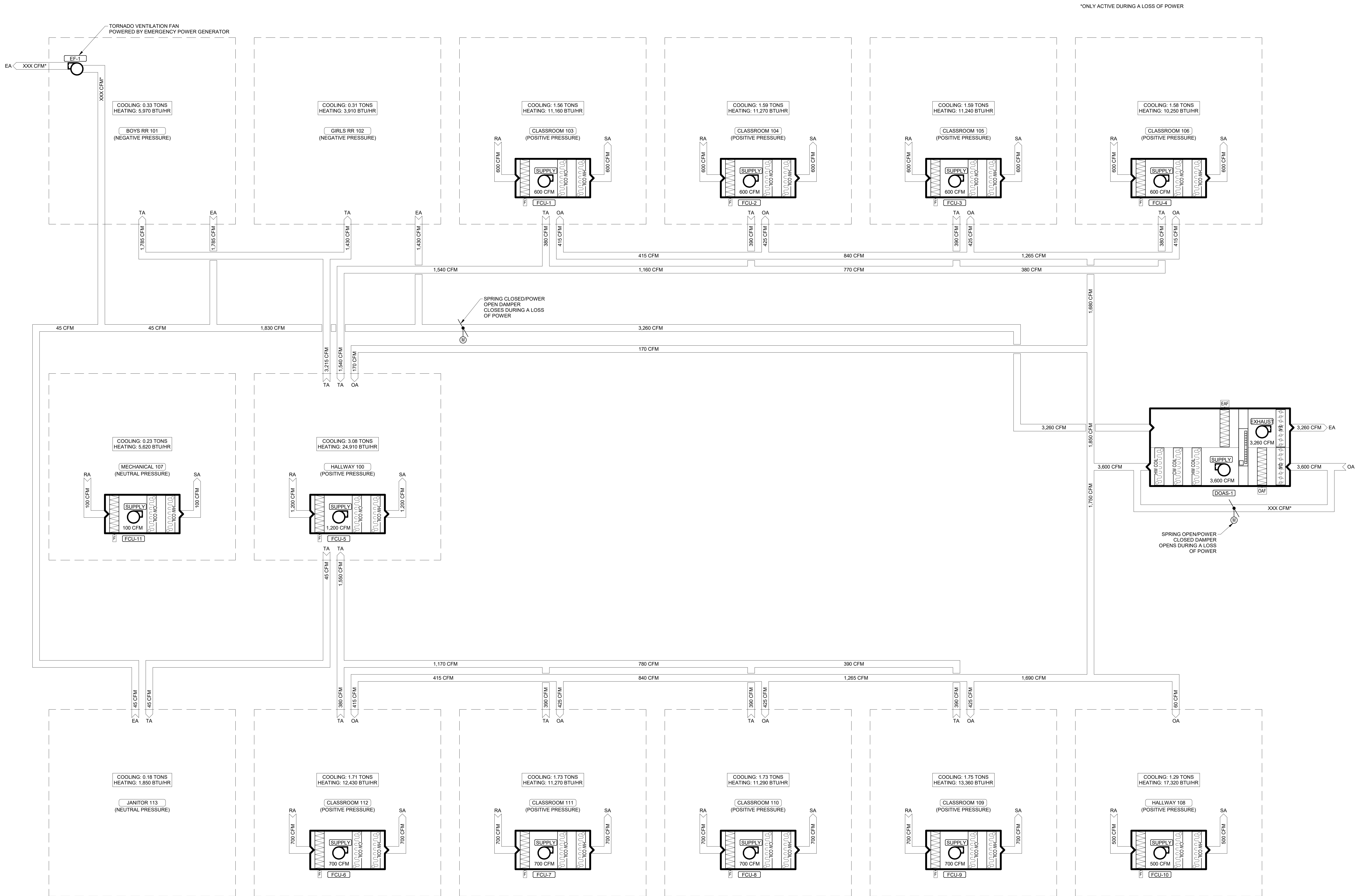
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SHEET TITLE

**PIPING SCHEMATIC
 - BOILER CHILLER**

PROJECT NO.
 21-0982
 DRAWING ISSUED DATE:
 08/12/22
 SHEET
M401

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*ONLY ACTIVE DURING A LOSS OF POWER

1 AIR FLOW SCHEMATIC - BOILER/CHILLER NTS

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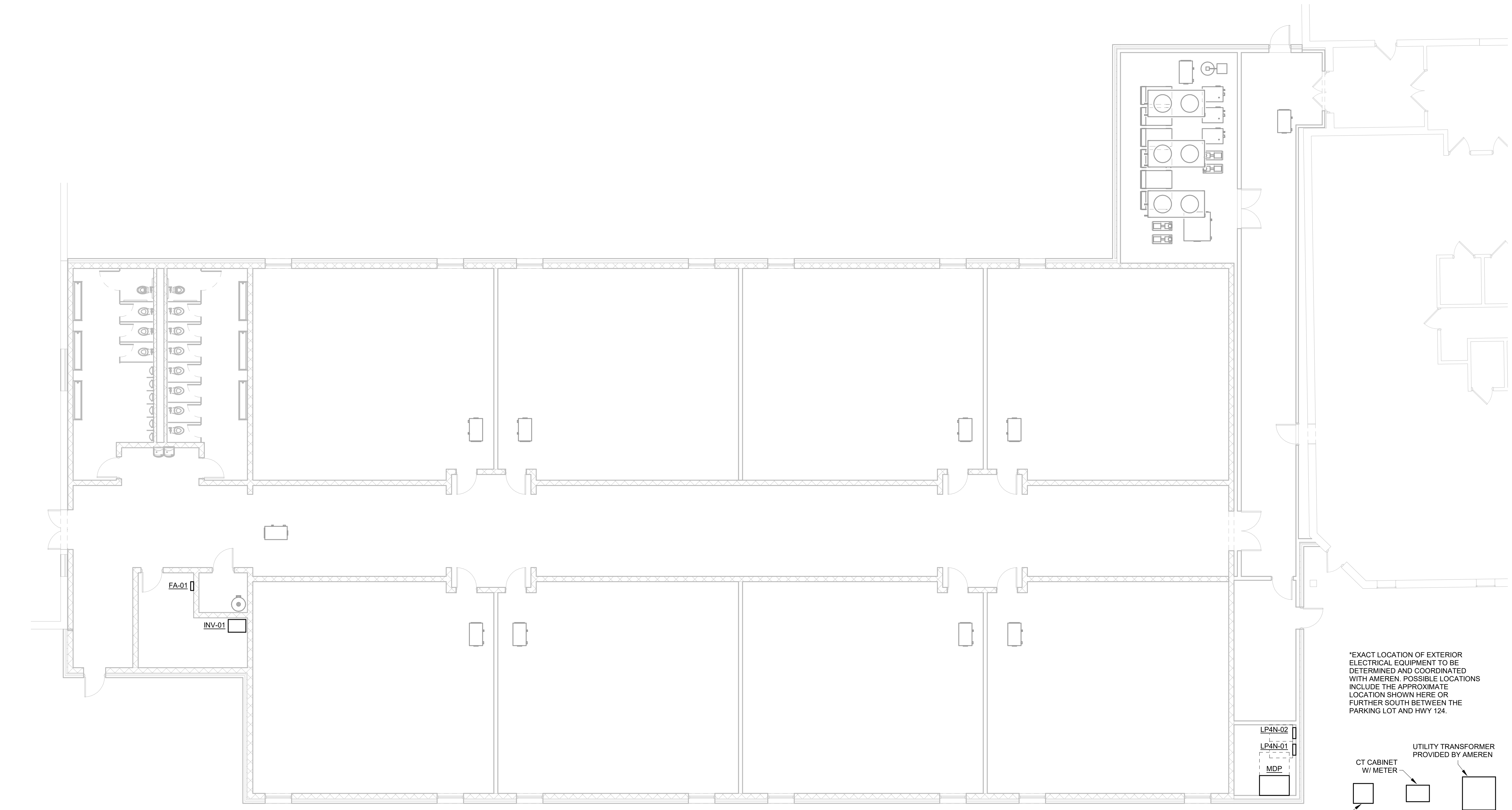
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HALLSVILLE SCHOOL DISTRICT
421 MO-124 E HALLSVILLE, MO 65255

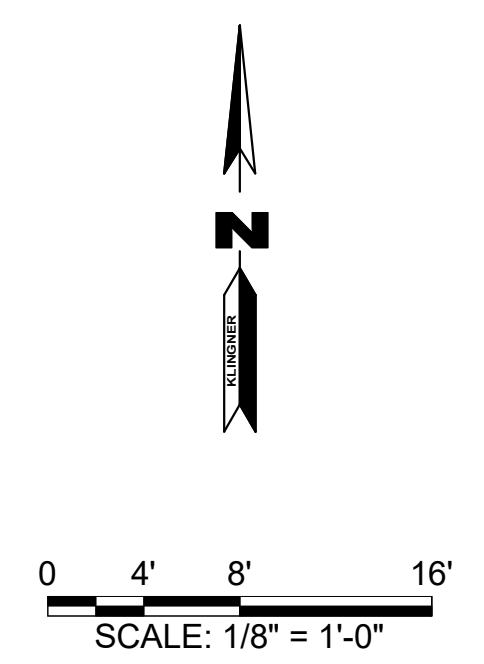
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CHECKED	JUN	CHECK DATE	
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AIRFLOW DIAGRAM - BOILER/CHILLER			
PROJECT NO. 21-4982			
DRAWING ISSUED DATE: 08/12/22			
SHEET			
M402			

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1 POWER PLAN
1/8" = 1'-0"



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SCHEMATIC DESIGN

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HALLSVILLE MIDDLE SCHOOL ADDITIONS
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E HALLSVILLE, MO 65255

DESIGNED	JBM	DRAWN	JBM
FIELD	FIELD BOOK	CHECKED	CHECK DATE

SHEET TITLE

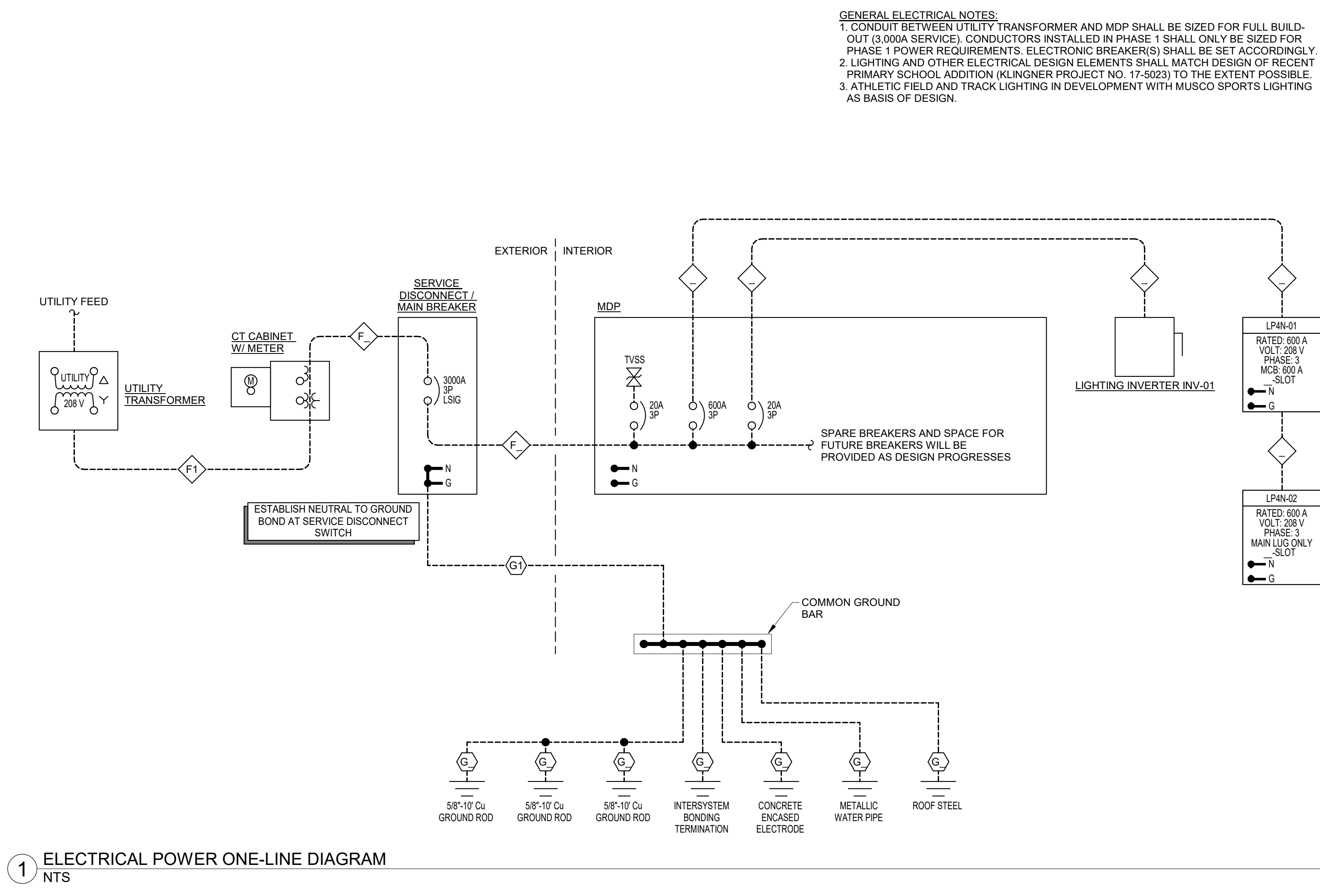
POWER PLAN

PROJECT NO.
21-4982

DRAWING ISSUED DATE:
08/12/22

SHEET
E110

8/12/2022 2:38:22 PM C:\Users\mrbjames\Documents\20MEP - Hallsville Middle School Additions.mxd\pages\0717.rvt



1 ELECTRICAL POWER ONE-LINE DIAGRAM
NTS

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REVISION HISTORY			
NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR: XX/XX/2022

SCHEMATIC DESIGN

PRELIMINARY
NOT FOR CONSTRUCTION

HALLSVILLE MIDDLE SCHOOL ADDITIONS
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E HALLSVILLE, MO 65255

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

DESIGNED	JBM	DRAWN	JBM
FIELD	FIELD BOOK		
CHECKED	CHECK DATE		
SHEET TITLE			
ONE-LINE DIAGRAM			
PROJECT NO. 21-4982			
DRAWING ISSUED DATE: 08/12/22			
SHEET			
E701			