

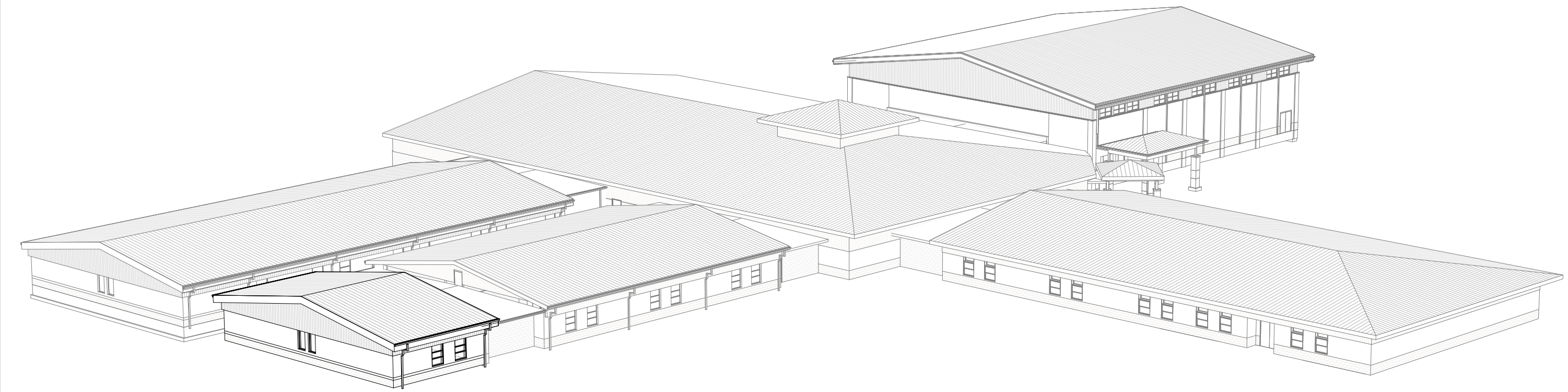
# HALLSVILLE PRIMARY SCHOOL ADDITION

## HALLSVILLE PRIMARY SCHOOL

421 EAST HIGHWAY 124  
HALLSVILLE, MO 65255

FOR:  
HALLSVILLE R-IV SCHOOL DISTRICT

BY A/E FIRM:  
**KLINGNER & ASSOCIATES P.C.**  
3622 Endeavor Ave, Suite 117  
Columbia, Missouri 65201  
Phone: (573) 355-5988



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REVISION HISTORY		
NO.	DESCRIPTION	DATE

ISSUED FOR: **12/05/2025**  
**SCHEMATIC DESIGN**

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

**HALLSVILLE PRIMARY SCHOOL ADDITION**  
**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

Non-Reduced Sheet Size 24" x 36"	
<small>Full sized plans have been prepared using standard scales. Reduced sized plans may not conform to standard scales.</small>	
DESIGNED	DRAWN
Field	Author
Designer	FIELD BOOK
CHECKED	CHECK DATE
Checker	

SHEET TITLE	
<b>TITLE SHEET</b>	
PROJECT NO.	24-5017
DRAWING ISSUED DATE:	05/01/2023
SHEET	<b>G001</b>

**PROJECT LOCATION**



**GENERAL NOTES**

- THE CONTRACTOR(S) SHALL CONFIRM CONDITIONS DESCRIBED HEREIN AND TELL THE ARCHITECT OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO STARTING WORK AFFECTED THEREBY.
- THE CONTRACTOR(S) SHALL FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS AND TELL THE ARCHITECT OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO STARTING WORK AFFECTED THEREBY.
- THE CONTRACTOR(S) SHALL MEET ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO:  
2015 INTERNATIONAL BUILDING CODE  
2015 INTERNATIONAL RESIDENTIAL CODE  
2015 INTERNATIONAL EXISTING BUILDING CODE  
2015 INTERNATIONAL FIRE CODE  
2014 NATIONAL ELECTRIC CODE  
2015 INTERNATIONAL MECHANICAL CODE  
2015 UNIFORM PLUMBING CODE  
2012 INTERNATIONAL ENERGY CONSERVATION CODE  
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR OSHA COMPLIANCE AND JOB SITE SAFETY.
- CONTRACTOR(S) SHALL VERIFY LOCATIONS OF ALL UTILITIES (TELEPHONE, DATA, GAS, ELECTRIC, SANITARY AND STORM SEWERS, ETC.) AT THE SITE BEFORE STARTING EXCAVATION OR CONSTRUCTION. THESE ITEMS SHALL BE MARKED AND PROTECTED.
- THE CONTRACTOR(S) SHALL REPORT ANY SUSPICIOUS MATERIALS (POTENTIALLY HAZARDOUS) AT THE SITE IMMEDIATELY TO THE OWNER FOR HIS/HER 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.
- CONTRACTOR(S) SHALL TAKE PRECAUTIONS NECESSARY TO PROTECT ADJACENT PROPERTY FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS.
- THE CONTRACTOR(S) SHALL SUBMIT EVIDENCE OF INSURANCE TO OWNER AND HAVE IT APPROVED AS ACCEPTABLE TO OWNER PRIOR TO STARTING WORK. OWNER AND ARCHITECT SHALL BE NAMED AS ADDITIONAL INSURED.

**NOTATION AND SYMBOL DESIGNATIONS**

View Name 1/8" = 1'-0"	
VIEW INDICATOR	CENTER LINE
DETAIL INDICATOR	<b>ROOM NAME</b> A101 150 SF
ROOM INDICATOR	ROOM INDICATOR
SECTION INDICATOR	101 DOOR INDICATOR
WALL TYPE INDICATOR	XX-XX WALL TYPE INDICATOR
WINDOW TYPE INDICATOR	11 WINDOW TYPE INDICATOR
EXTERIOR ELEVATION INDICATOR	1 NOTE INDICATOR
INTERIOR ELEVATION INDICATOR	0 BUILDING GRID INDICATOR

**GENERAL NOTES**

- ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- ANY DISCREPANCIES BETWEEN SPECIFICATIONS, DRAWINGS, AND/OR SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL AREAS DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE LOCAL, STATE, & FEDERAL CODES ARE FOLLOWED. ALL APPLICABLE LOCAL AND STATE NOTIFICATIONS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION, INCLUDING ALL NECESSARY UTILITY CONNECTION PERMITS FROM THE RESPECTIVE UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND SERVICES REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL REFERENCE POINTS, BENCHMARKS, MONUMENTS, STAKES, AND PROPERTY CORNERS DURING CONSTRUCTION. REPLACEMENT OF LOST REFERENCE POINTS SHALL BE AT THE CONTRACTORS EXPENSE.
- REMOVE ALL STRUCTURES, FOUNDATIONS, WALLS, PAVEMENTS, AND ALL OTHER ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- REFERENCES TO "STANDARD SPECIFICATIONS" SHALL MEAN THE MISSOURI DEPARTMENT OF TRANSPORTATION, "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", LATEST EDITION.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT OWNER APPROVAL.
- SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, AND THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST IN AND AROUND ALL WORK AND STAGING AREAS.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- THE PROJECT SITE SHALL BE FENCED WITH A MINIMUM 6-FOOT HEIGHT TEMPORARY CHAIN LINK FENCE WITH TOP RAIL.
- IF A DISCREPANCY IN THE SPOT ELEVATIONS IS NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTING. IF THERE IS A DISCREPANCY BETWEEN THE SPOT ELEVATIONS AND CONTOURS, THE CONTOURS SHALL GOVERN.

**PAVEMENT NOTES**

- PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION.
- PROOF-ROLL SUBGRADE WITH A MINIMUM 25 TON G.V.W. TRUCK TO IDENTIFY AREAS OF SOFT OR UNSTABLE SUBGRADE. REMOVE AND REPLACE UNSTABLE AREAS WITH SUITABLE COMPACTED MATERIALS.
- 1/2 INCH PREFORMED EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN NEW PAVEMENT CONSTRUCTION AND THE FACES OF BUILDINGS AND STOOPS.
- PAVEMENT MARKING SHALL NOT BEGIN UNTIL PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEEP AS NECESSARY TO REMOVE LOOSE MATERIALS AND DIRT; AND NOT BEFORE ADEQUATE CURING TIME HAS BEEN OBTAINED ON THE PAVEMENT.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, EDGE OF BUILDING, OR PROPERTY LINES UNLESS OTHERWISE NOTED. ALL RADII ARE TO BACK OF CURB.

**EROSION CONTROL NOTES**

- EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE DETAILS IN THESE PLANS, AND THE MISSOURI DNR STANDARDS.
- THE EROSION CONTROL SHOWN ON THIS SET OF PLANS SHALL BE CONSIDERED THE MINIMUM ACCEPTABLE FOR THIS PROJECT. THERE MAY BE ADDITIONAL EROSION CONTROL REQUIRED DUE TO THE VARIOUS CONSTRUCTION TECHNIQUES, WHICH MAY BE USED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AND MAINTAINING ALL THE RUNOFF FROM THE SITE, IN A MANNER WHICH KEEPS ALL SILT ON SITE.
- A LAND DISTURBANCE CONSTRUCTION PERMIT IS NOT REQUIRED SINCE LESS THAN 1 ACRE OF LAND WILL BE DISTURBED BY GRADING OPERATIONS.
- ALL INLET PROTECTION AND TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF PAVING OPERATIONS AND FINAL STABILIZATION OF LANDSCAPED AND SEED AREAS.

**GRADING NOTES**

- TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6 INCHES WITHIN ALL PROPOSED BUILDING AND PAVEMENT AREAS AND STOCKPILED ON SITE FOR USE IN LANDSCAPE AREAS (COORDINATE WITH OWNER). IF ACCEPTABLE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE IT TO A DEPTH OF 6 INCHES.
- TOPSOIL SHALL BE LOAMY IN NATURE, FREE FROM HARD CLOUDS, STIFF CLAY, SOD, STONES, ROOTS, STICKS, AND OTHER DEBRIS OVER 1 INCH IN SIZE. TOPSOIL SHALL BE FREE OF TOXIC MATERIALS AND SHALL HAVE A pH RANGE BETWEEN 5.5 AND 7.0.
- ALL EXCESS MATERIALS NOT USED FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
- PROPOSED CONTOURS ARE INTENDED TO PROVIDE A MIN. 1% SLOPE IN PAVEMENT AREAS AND 2% IN TURFED AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING A SMOOTH UNIFORM DRAINING SURFACE THAT DOES NOT CREATE PONDING WATER OR SHARP BREAKS. CONTOURS OR ELEVATIONS THAT WILL NOT PROVIDE SUCH SURFACE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/ARCHITECT IMMEDIATELY.
- FINAL ELEVATIONS INDICATED ARE THE FINISHED SURFACE ELEVATIONS, WHETHER GRASS, CONCRETE, PAVEMENT, OR MULCH. THE CONTRACTOR SHALL COORDINATE SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT, CONCRETE OR MULCH DEPTHS.
- ALL DISTURBED AREAS NOT WITHIN PAVEMENT & LANDSCAPE AREAS SHALL BE SEEDED PER THE SPECIFICATIONS. THE AREAS INDICATED TO BE SEEDED ON THIS PLAN ARE ESTIMATED DISTURBED AREAS. DISTURBED AREAS OUTSIDE OF THOSE INDICATED SHALL BE SEEDED REGARDLESS OF THE LIMITS INDICATED.
- SLOPES 4:1 AND STEEPER SHALL RECEIVE A TEMPORARY EROSION CONTROL MAT PROVIDING PROTECTION FOR UP TO 12 MONTHS.

**CITY OF HALLSVILLE**  
202 HWY 124 EAST - HALLSVILLE, MO  
**SITE PLAN REVIEW INFORMATION**

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**PROPERTY OWNERSHIP & ZONING REQUIREMENTS**

OWNER NAME: HALLSVILLE R-IV SCHOOL DISTRICT  
PROJECT LOCATION: 421 MO-124 E, HALLSVILLE, MO.  
TELEPHONE: (573) 696-5512  
OWNER CONTACT: TYLER WALKER, SUPERINTENDENT  
OWNER ADDRESS: 421 MO-124 E, HALLSVILLE, MO.

PROPERTY ZONING CLASSIFICATION: A-1- GENERAL AGRICULTURAL DISTRICT- PUBLIC BUILDINGS AND FACILITIES ARE PERMITTED IN THIS DISTRICT.

MIN. LOT AREA: NA  
FRONT YARD: NA  
SIDE YARDS REQUIRED: NA  
REAR YARD REQUIRED: NA

**LANDSCAPE REQUIREMENTS**

SCREENING AND LANDSCAPE REQUIREMENTS DEFINED IN SECTION 400.500 OF THE HALLSVILLE MUNICIPAL CODE ARE NOT INCLUDED IN THESE PLANS. THE HALLSVILLE R-IV SCHOOL DISTRICT WILL BE RESPONSIBLE FOR LANDSCAPING TO MEET THE REQUIREMENTS OF THE CODE.

**PARKING REQUIREMENTS**

N/A

**UTILITY NOTES**

- THE LOCATION OF EXISTING UTILITIES IN CONSTRUCTION AREAS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY CONTACTING THE MISSOURI ONE CALL SYSTEM, INC. OR THE INDIVIDUAL UTILITIES NOT PARTICIPATING IN THIS SYSTEM. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. ANY REPAIR OR RELOCATION REQUIRED, AS A RESULT OF DAMAGE BY CONSTRUCTION ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PAY UTILITY PERMIT AND/OR INSPECTION FEES.
- UTILITY TRENCHES WITHIN PAVEMENT AREAS SHALL BE BACKFILLED WITH APPROVED COMPACTED GRANULAR BACKFILL.
- ALL ELECTRIC SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, CURRENT VERSION.
- ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- THE DRAWINGS INDICATE THE BEST KNOWLEDGE OF THE OWNER AND ENGINEER/ARCHITECT ON THE GENERAL LOCATION AND NATURE OF THE EXISTING AND OR PROPOSED UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION. EXPLORATORY EXCAVATIONS AT THE SITE TO DETERMINE INSITU LOCATIONS WERE NOT CONDUCTED. QUALITY LEVEL "C" IN ACCORDANCE WITH C/ASCE 38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA, WAS UTILIZED. REGARDLESS OF THE LEVEL OF INVESTIGATION, THE UTILITIES SHOWN SHOULD NOT BE CONSIDERED A WARRANTY OR GUARANTEE OF ACTUAL PRESENCE OR LOCATION AND THE CONTRACTOR REMAINS RESPONSIBLE FOR THE LOCATION, VERIFICATION, AND PROPER NOTIFICATION OF POTENTIAL UTILITIES.

**QUALITY LEVELS:**

QUALITY LEVEL A - PROVIDES THE HIGHEST LEVEL OF ACCURACY. BY LOCATING OR POTHOLES UTILITIES IN ADDITION TO QUALITY LEVELS B, C, AND D TASKS. THE LOCATED UTILITY INFRASTRUCTURE IS SURVEYED AND MAPPED TO DEVELOP PLAN AND PROFILE INFORMATION.

QUALITY LEVEL B - INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND RECORDING THE INFORMATION THROUGH A SURVEY METHOD. IN ADDITION TO QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL C - INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. IN ADDITION TO QUALITY LEVEL D TASKS

QUALITY LEVEL D - INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS, THAT MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASE, CONSTRUCTION PLANS, ETC. DATABASES, CONSTRUCTION PLANS, ETC.

**NOTE**

UTILITY INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM, INC. AT 811 OR 1-800-344-7483 AND THE INDIVIDUAL UTILITIES NOT INCLUDED IN THIS SYSTEM FOR THE LOCATION OF ALL EXISTING UTILITIES.

**UTILITY INFORMATION:**

WATER:  
CITY OF HALLSVILLE: 573-696-3885  
PWSD #4: 573-696-3511

ELECTRIC:  
AMEREN MO, 1300 W LIBERTY ST., MEXICO, MO 65265  
BRADY CUNNINGHAM, DISTRIBUTION DESIGN CONSULTANT,  
CENTRAL MISSOURI DIVISION  
OFFICE: 573-473-5963  
CELL: 573-220-6202

NATURAL GAS:  
AMEREN MO:  
DAVID HAGENHOFF: 573-876-3030  
dhagenhoff@ameren.com

SEWER:  
MISSOURI AMERICAN WATER: 1-866-430-0820

COMMUNICATIONS:  
MARK MCFERREN, OSP ENGINEER  
BLUEBIRD NETWORK, LLC  
800 NW CHIPMAN RD.  
STE 5750  
LEES SUMMIT, MO 64063  
CELL: 816-716-4514  
mark.mcferran@bluebirdnetwork.com

**ABBREVIATIONS**

- FL FLOWLINE ELEVATION
- TC TOP OF CURB ELEVATION
- GL GUTTER LINE ELEVATION
- TG TOP OF GRATE ELEVATION
- STA STATION
- FES FLARED END SECTION
- SWI STORM WATER INLET
- FFE FINISH FLOOR ELEVATION
- HP HIGH POINT
- LP LOW POINT
- TW TOP OF WALL ELEVATION
- BW BOTTOM OF WALL ELEVATION
- DS DOWNSPOUT
- EP EDGE OF PAVEMENT ELEVATION
- N.I.C. NOT IN CONTRACT

**LEGEND**

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		RIGHT OF WAY LINE
		CENTERLINE
		EASEMENT
		BUILDING SETBACK
		CONSTRUCTION LIMITS
		FENCE LINE
		CHAIN LINK FENCE
		FENCE W/ SQUARE POSTS
		STREAM
		STRUCTURE
		PAVEMENT MARKINGS
		EDGE OF PAVEMENT
		CURB AND GUTTER
		RAILROAD TRACKS
		WATER LINE
		FIRE PROTECTION
		GAS LINE
		OVERHEAD ELECTRIC
		UNDERGROUND ELECTRIC
		OVERHEAD TELEPHONE
		UNDERGROUND TELEPHONE
		CABLE TELEVISION
		FIBER OPTIC
		COMMUNICATION LINE
		STORM SEWER
		SANITARY SEWER
		FORCE MAIN
		COMBINED SEWER
		IRRIGATION SYSTEM
		MAST ARM SIGNAL (3 SIGNALS)
		MAST ARM SIGNALS (2 SIGNALS)
		UTILITY TRAFFIC SIGN
		SIGN
		MANHOLE
		STORM WATER INLET
		CATCH BASIN
		CLEANOUT
		CULVERT
		BOX CULVERT
		WATER VALVE
		FIRE HYDRANT
		POST INDICATOR VALVE
		WATER METER
		GAS VALVE
		GAS METER
		TELEPHONE PEDESTAL
		CABLE TV PEDESTAL
		ELECTRIC METER
		UTILITY POLE
		LIGHT STANDARD
		LIGHT POLE
		GUY WIRE
		SUMMIT / HIGH POINT
		CONTOURS
		INDEX CONTOURS
		DIRECTION OF DRAINAGE
		SPOT ELEVATION
		DECIDUOUS SHRUB
		DECIDUOUS TREE
		CONIFEROUS SHRUB
		CONIFEROUS TREE

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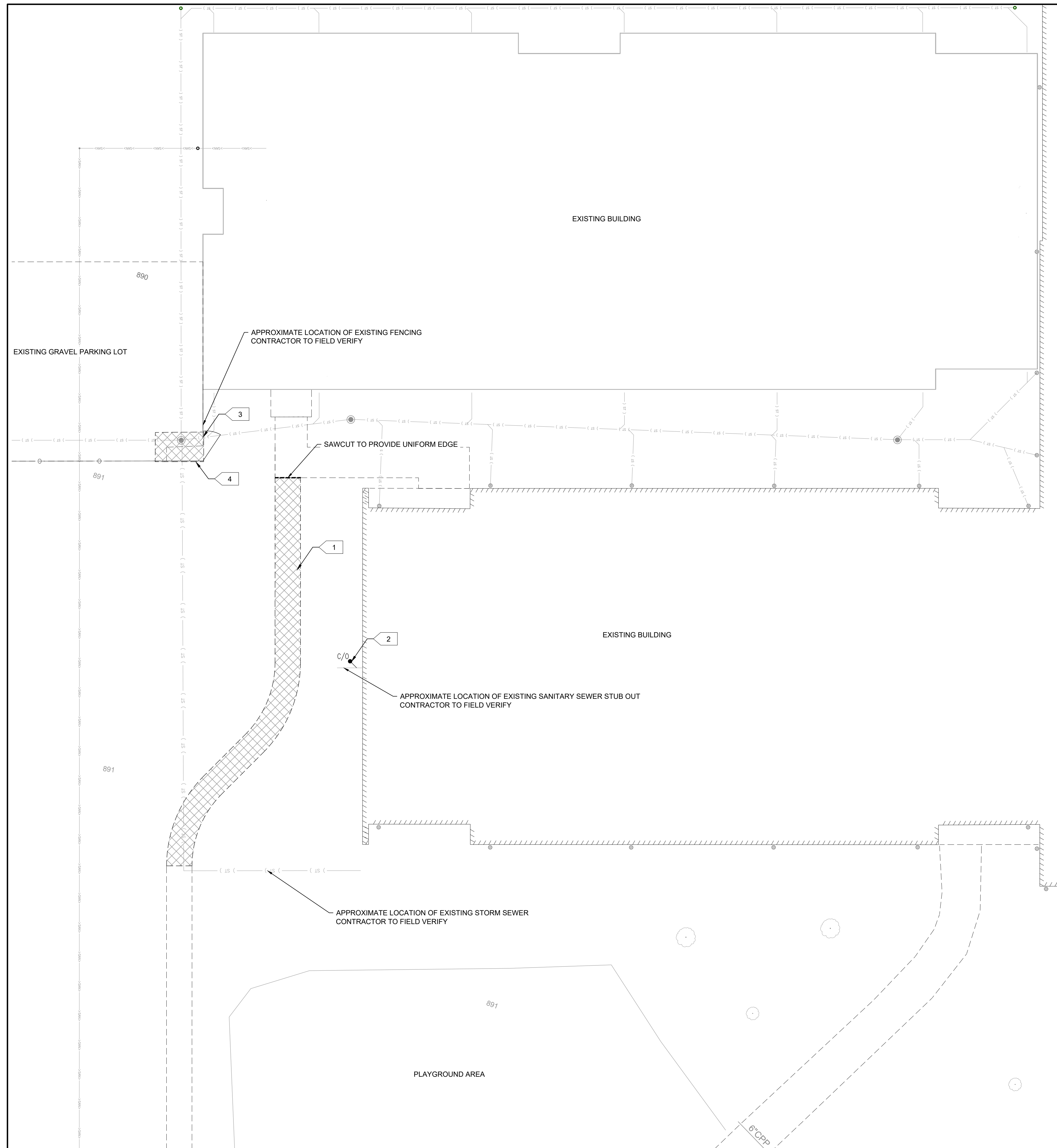
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**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
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DESIGNED: DDR	DRAWN: DDR
FIELD: MWJ/TGH	FIELD BOOK: H25/35
CHECKED: CSW	CHECK DATE: XX/XX/XXXX

SHEET TITLE  
**GENERAL NOTES  
AND LEGEND**

PROJECT NO.  
24-5017  
DRAWING ISSUED DATE:  
12/05/2025  
SHEET  
**C001**



**DEMOLITION LEGEND**

- REMOVALS BY CONTRACTOR
- SAWCUT

**DEMOLITION NOTES**

1. ALL REMOVALS SHALL BE COORDINATED WITH THE PHASING OF THE SITE.
2. REMOVE ALL EXISTING TREES, PAVEMENTS, CURBS, WALLS, LANDSCAPING, AND ALL OTHER EXISTING SITE FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
3. COORDINATE UTILITY REMOVALS AND/OR RELOCATIONS WITH THE RESPECTIVE UTILITY COMPANIES, SM WILSON, HALLSVILLE R-IV SCHOOL DISTRICT AND /OR THE CITY OF HALLSVILLE.
4. DEMOLITION SHALL INCLUDE REMOVAL & PROPER DISPOSAL OF MATERIALS.
5. CONTRACTOR TO PAY ALL PERMIT & DISPOSAL FEES.

**SITE DEMOLITION KEY NOTES:**

- 01 > REMOVE SIDEWALK AND BASE COURSE
- 02 > REMOVE CLEANOUT AND CAP RISER
- 03 > REMOVE FENCE AND GATE. SALVAGE GATE FOR REUSE
- 04 > REMOVE AGGREGATE PAVEMENT AS NECESSARY FOR PROPOSED IMPROVEMENTS. SALVAGE FOR REUSE IF NO ORGANICS PRESENT

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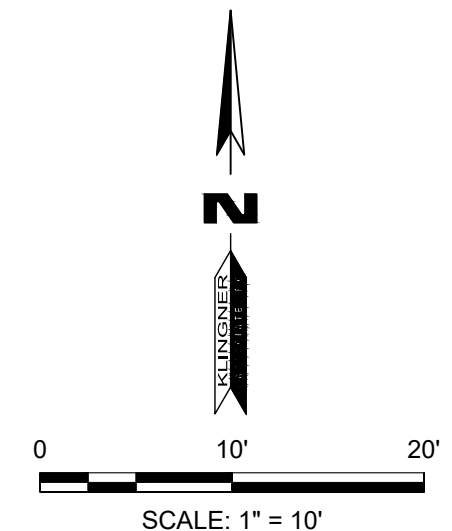
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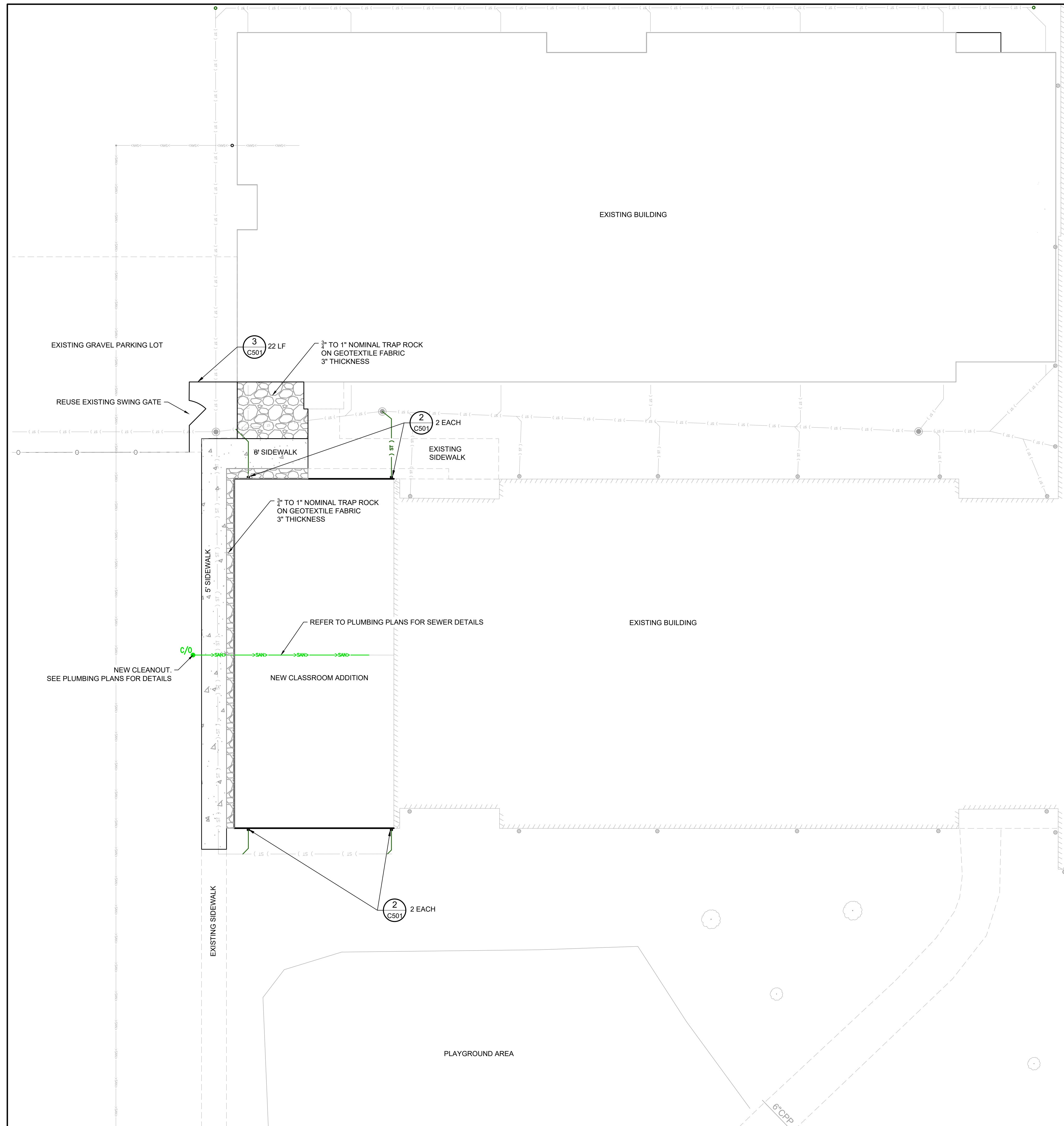
**SHEET TITLE  
 EXISTING  
 CONDITIONS AND  
 SITE DEMOLITION  
 PLAN**

PROJECT NO.  
 24-5017  
 DRAWING ISSUED DATE:  
 12/05/2025

SHEET  
**CD101**



- BENCHMARKS:**
1. CHISELED "+\*" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
  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)
  3. CHISELED "+\*" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
  4. CHISELED "+\*" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

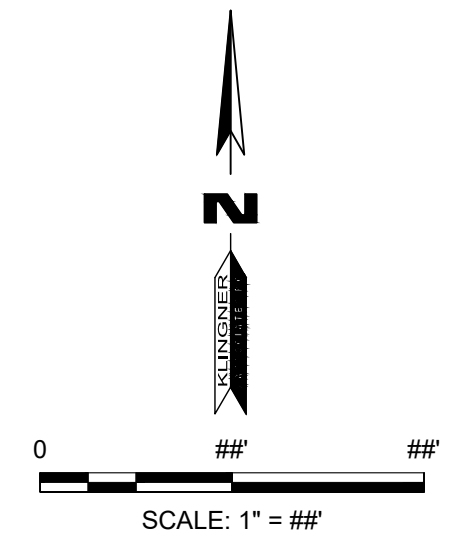


**PAVEMENT JOINT LEGEND**

---	EJ - EXPANSION JOINT
++++	TJ - TIED JOINT
- - - -	SJ - SAWED JOINT
	DJ - DOWELLED JOINT

**PAVEMENT HATCH LEGEND**

[Hatched Box]	4' SIDEWALK (DETAIL 1/C501)
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- BENCHMARKS:**
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**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

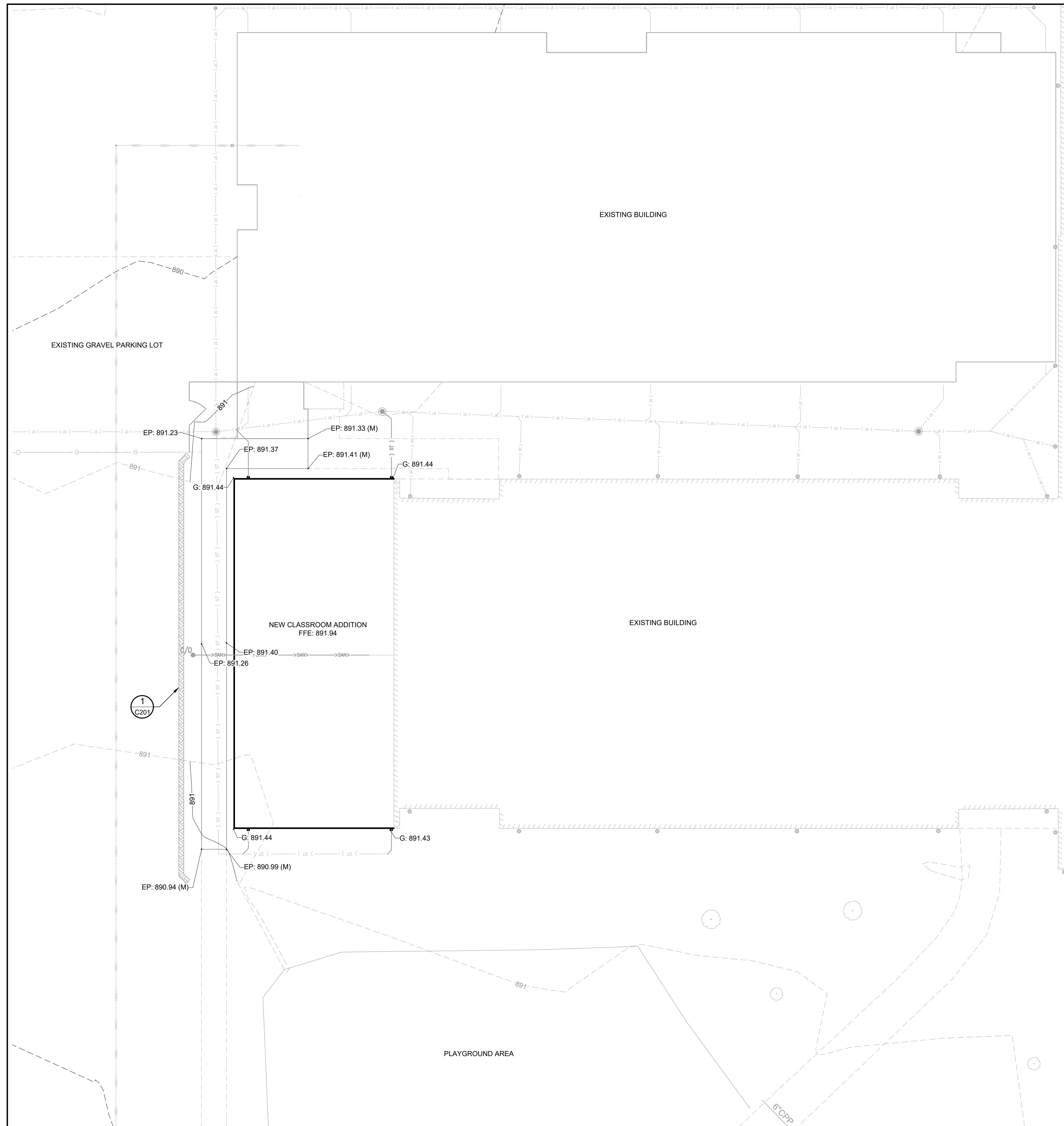
Non-Reduced Sheet Size: 24" x 36"  
 Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED: DDR	DRAWN: DDR
FIELD: MWJ/TGH	FIELD BOOK: H25/35
CHECKED: CSW	CHECK DATE: XX/XX/XXXX

**SHEET TITLE**  
**SITE AND UTILITY PLAN**

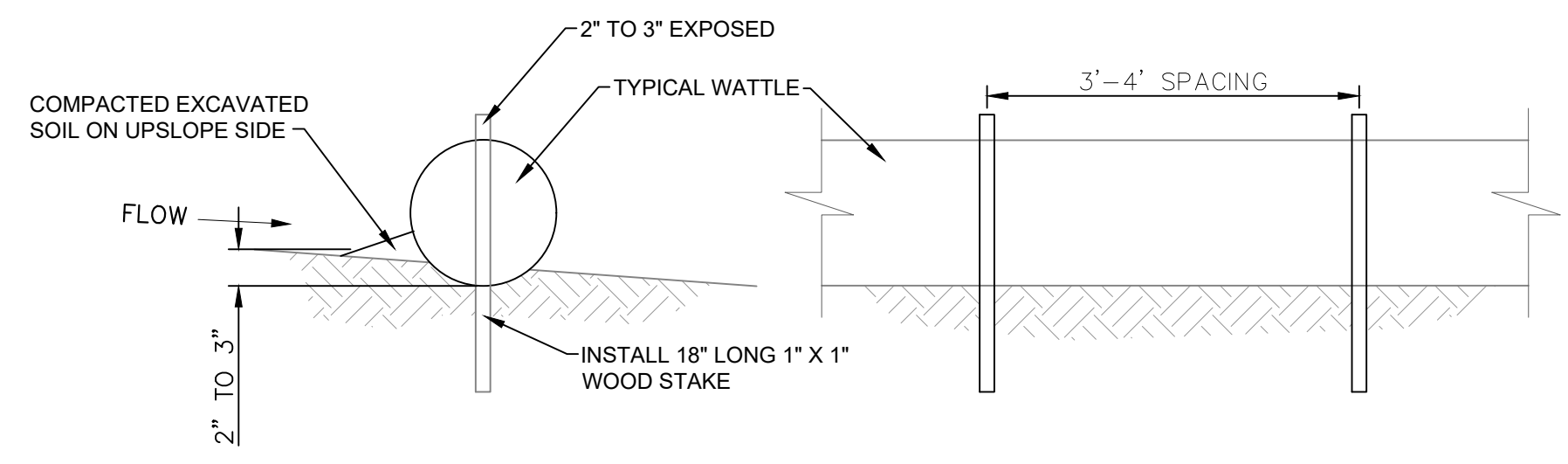
PROJECT NO. 24-5017  
 DRAWING ISSUED DATE: 12/05/2025  
 SHEET

**C101**

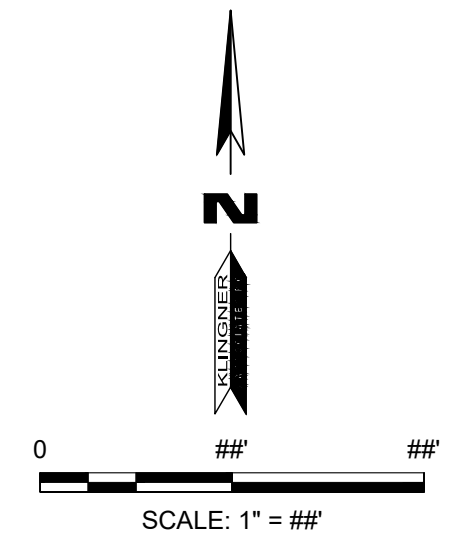


**GRADING & EROSION CONTROL LEGEND**

EXISTING	PROPOSED	
		SUMMIT / HIGH POINT
		CONTOURS
		INDEX CONTOURS
		DIRECTION OF DRAINAGE SWALE
		SPOT ELEVATION
		EROSION CONTROL BARRIER



**1 EROSION CONTROL WATTLE CHECK**  
N.T.S.



- BENCHMARKS:**
- CHISELED "+\*" EAST BOLT FIRE HYDRANT SOUTH OF TICKET SHED - ELEV 890.16
  - 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)
  - CHISELED "+\*" NORTH BOLT FIRE HYDRANT AT SOUTHWEST CORNER PLAYGROUND - ELEV 890.16
  - CHISELED "+\*" SOUTH BOLT FIRE HYDRANT AT NORTHEAST CORNER EXISTING SCHOOL BUILDING- ELEV 893.02

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Engineers • Architects • Surveyors  
Columbia, Missouri  
3632 Eskander Ave., Suite 117  
63114  
www.klingner.com

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No. E-000806  
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**SCHEMATIC DESIGN**

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

MO# <>

**HALLSVILLE PRIMARY SCHOOL ADDITION**  
**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

Non-Reduced Sheet Size: 24" x 36"  
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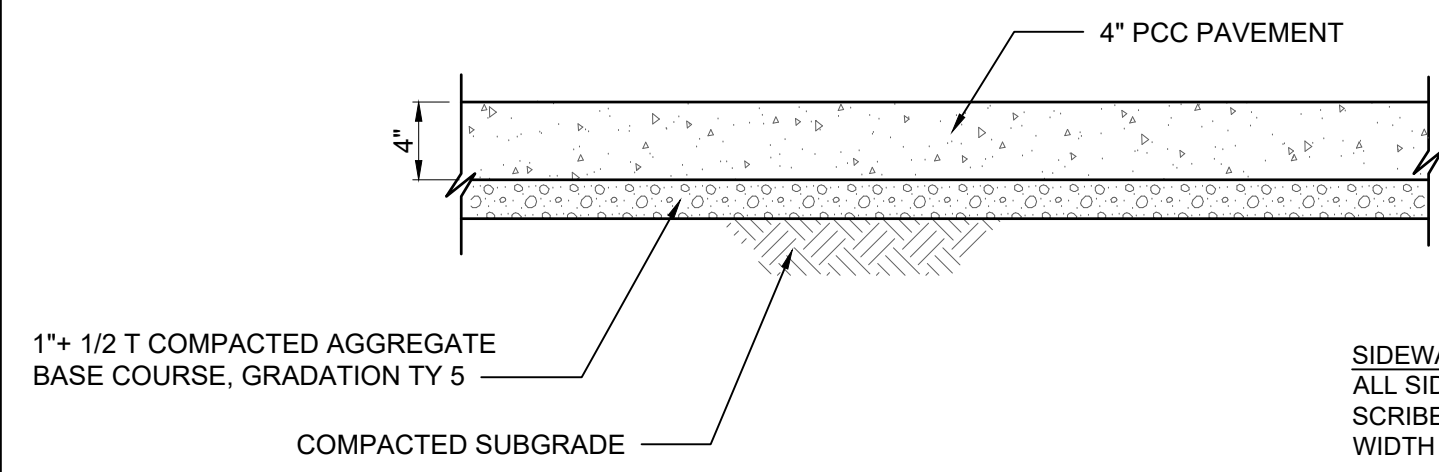
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FIELD: MWJ/TGH	FIELD BOOK: H25/35
CHECKED: CSW	CHECK DATE: XX/XX/XXXX

SHEET TITLE

**SITE GRADING PLAN**

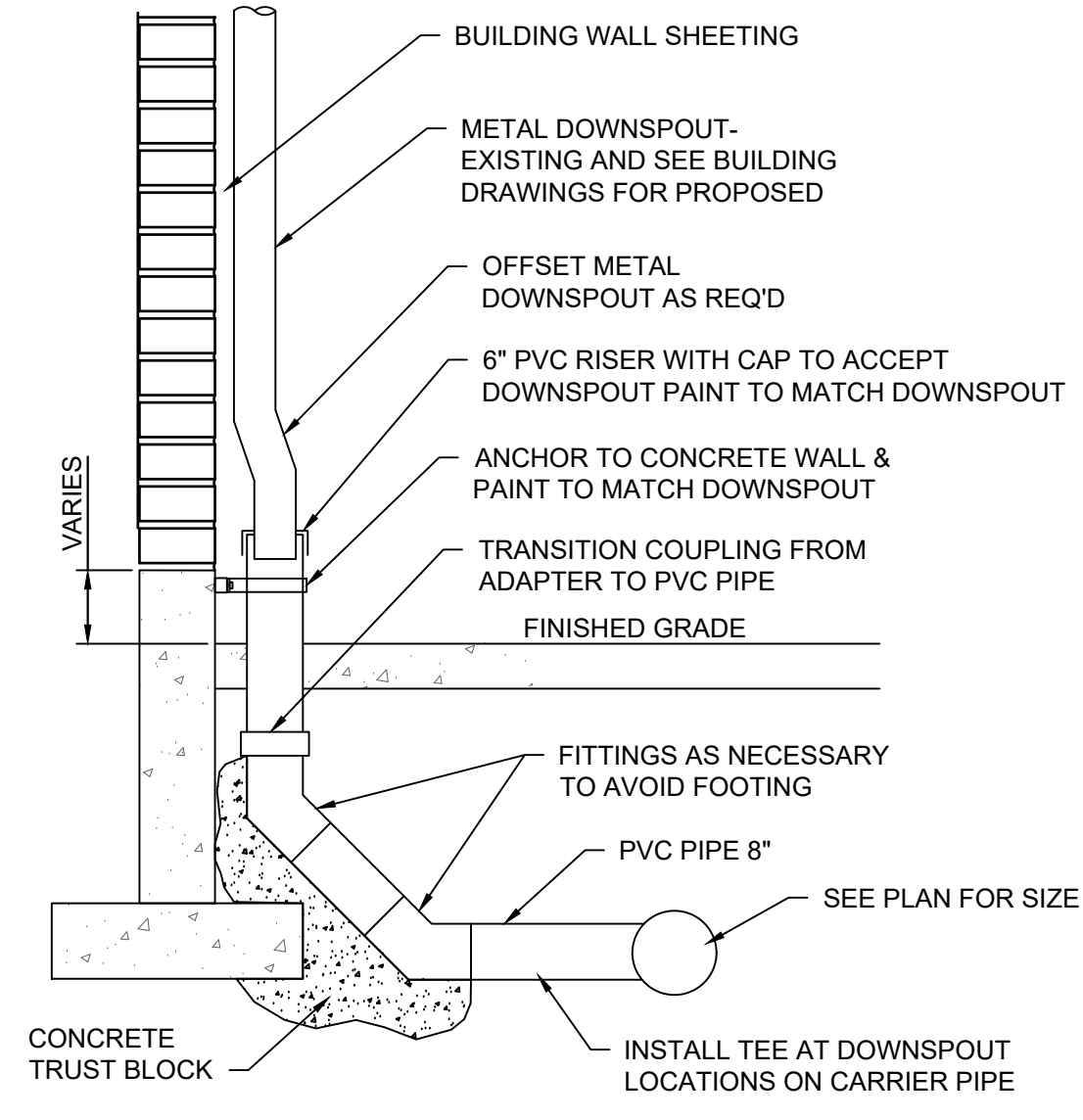
PROJECT NO.  
24-5017  
DRAWING ISSUED DATE:  
12/05/2025

SHEET  
**C201**

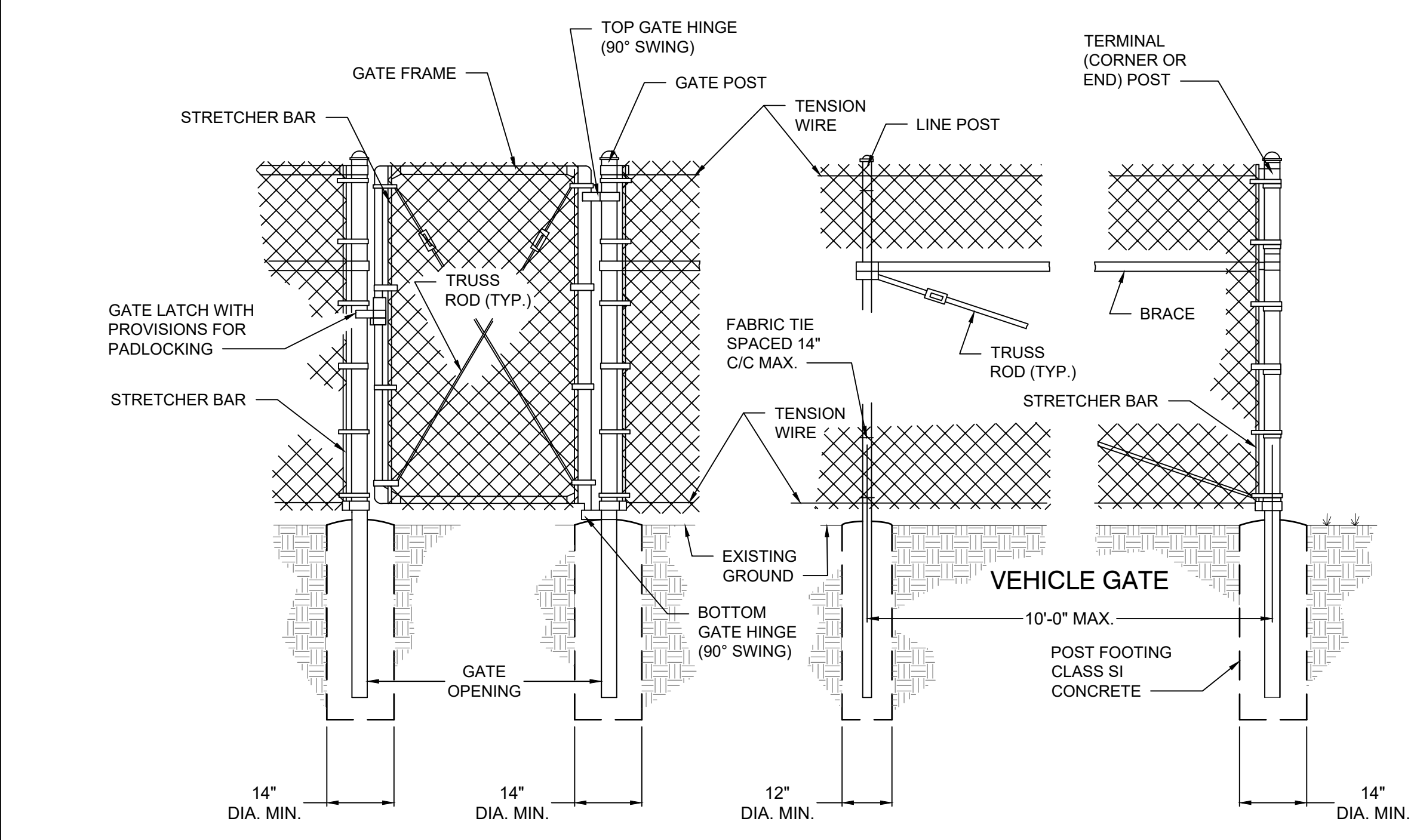


**1 PCC PAVING DETAIL**  
N.T.S.

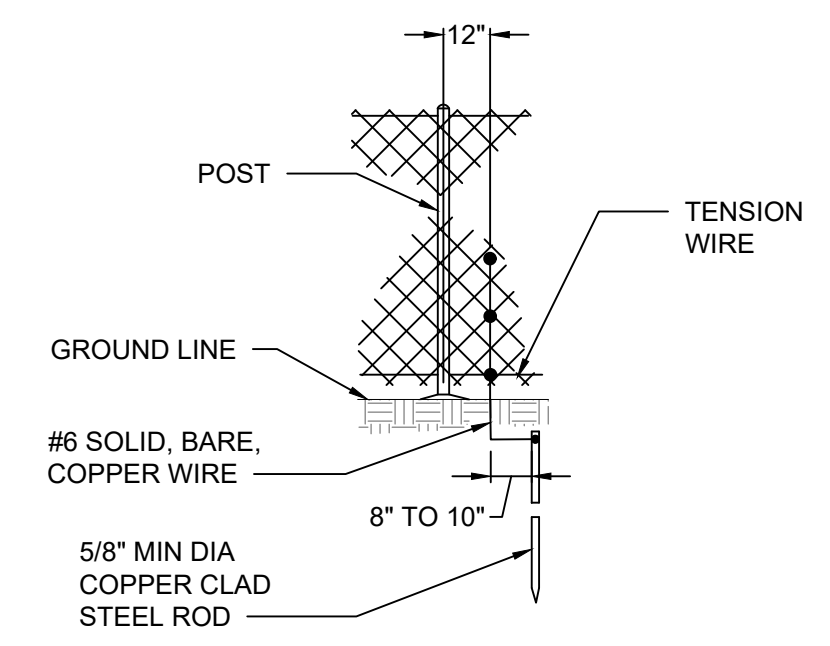
**SIDEWALK NOTES:**  
ALL SIDEWALK JOINTS SHALL BE SCRIBED OR EDGED, MAX. SPACING = WIDTH OF SIDEWALK  
1/2" EXP. JTS. W/ POLYURETHANE SEALER AT MAX. 50' INTERVALS  
MAXIMUM 1.5% CROSS SLOPE  
MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%



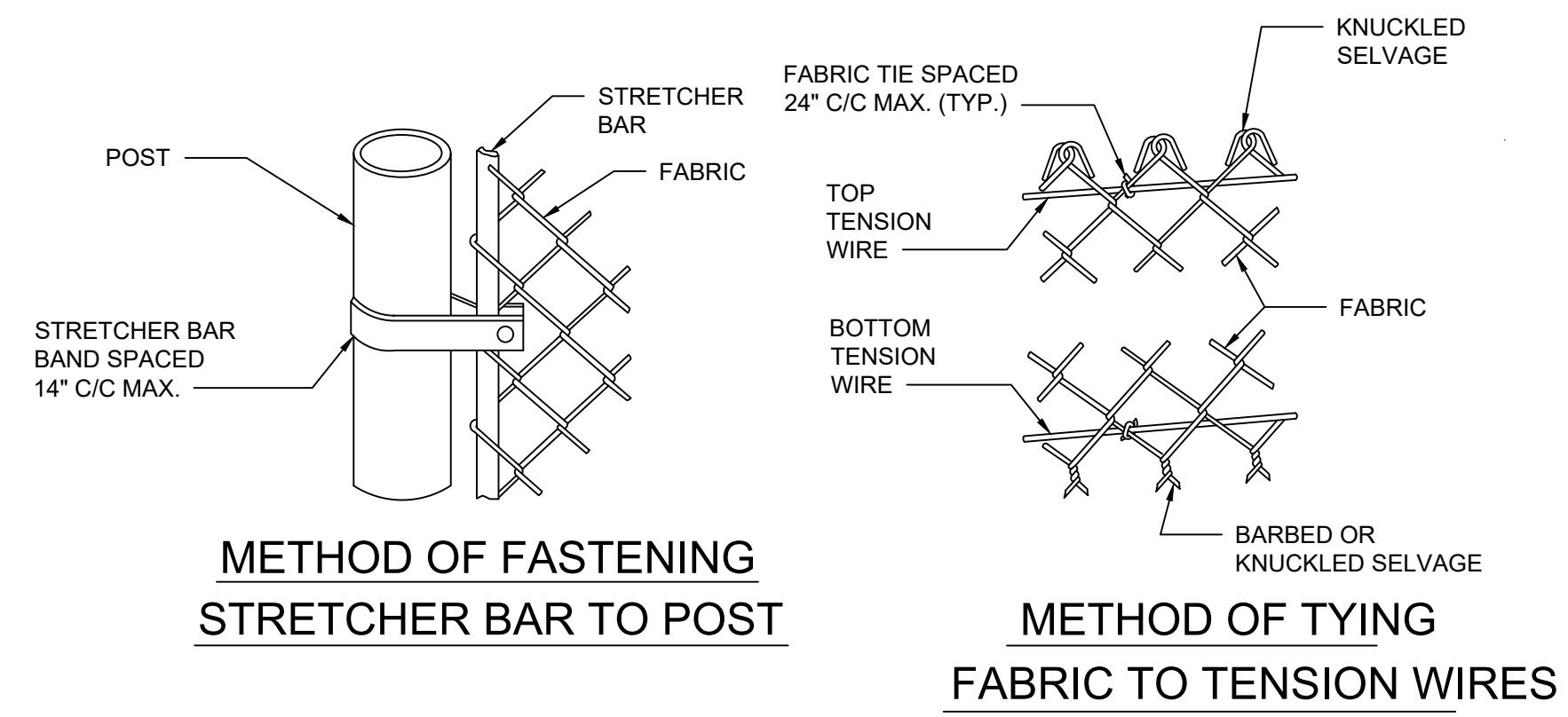
**2 DOWNSPOUT CONNECTION DETAIL**  
N.T.S.



**3 CHAIN LINK FENCE DETAIL**  
N.T.S.



**STANDARD GROUND**  
**PROTECTIVE ELECTRICAL GROUNDS**  
CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 500 FEET. THERE SHALL BE A GROUND WITHIN 100 FEET OF GATES IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE.  
THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE OR STAINLESS STEEL BOLTS AND WASHERS.



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**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

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FIELD: MWJ/TGH	FIELD BOOK: H25/35
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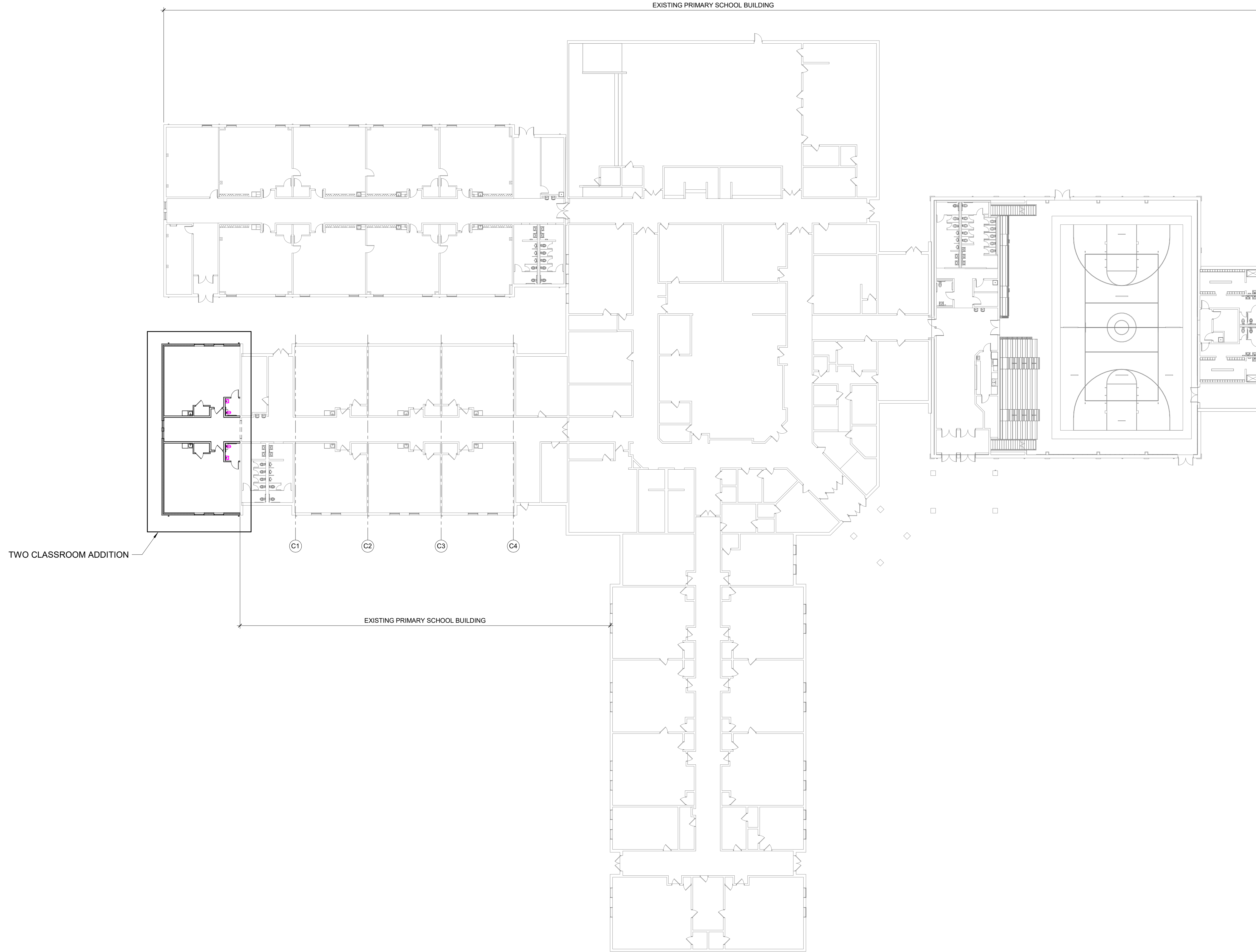
SHEET TITLE  
**SITE DETAILS**

PROJECT NO.  
24-5017

DRAWING ISSUED DATE:  
12/05/2025

SHEET  
**C501**

12/3/2025 1:43:25 PM  
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COMPOSITE PLAN

0 20' 40'  
 SCALE: 1" = 20'



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**HALLSVILLE R-IV SCHOOL DISTRICT**  
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**HALLSVILLE, MO 65255**

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

SHEET TITLE

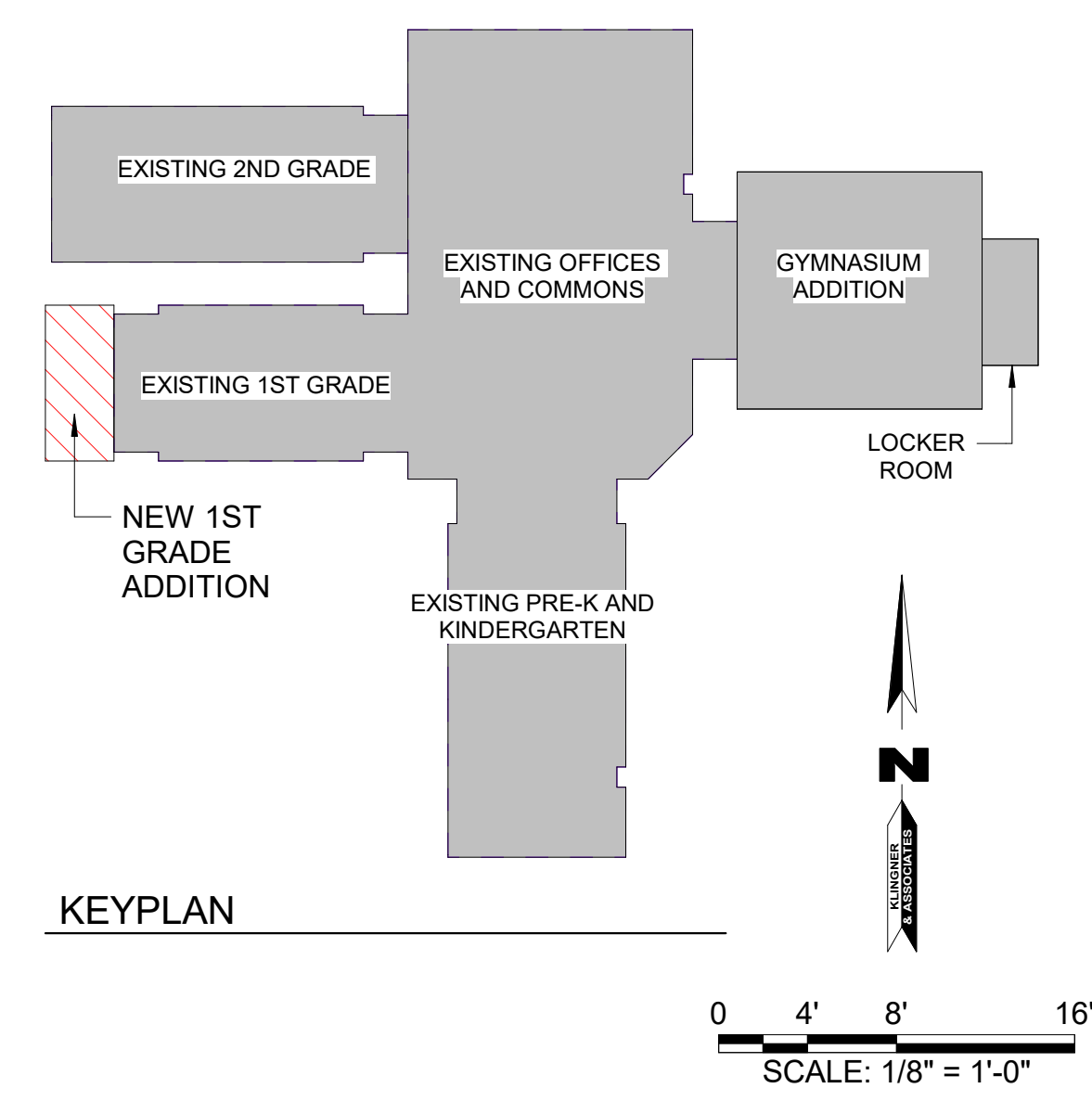
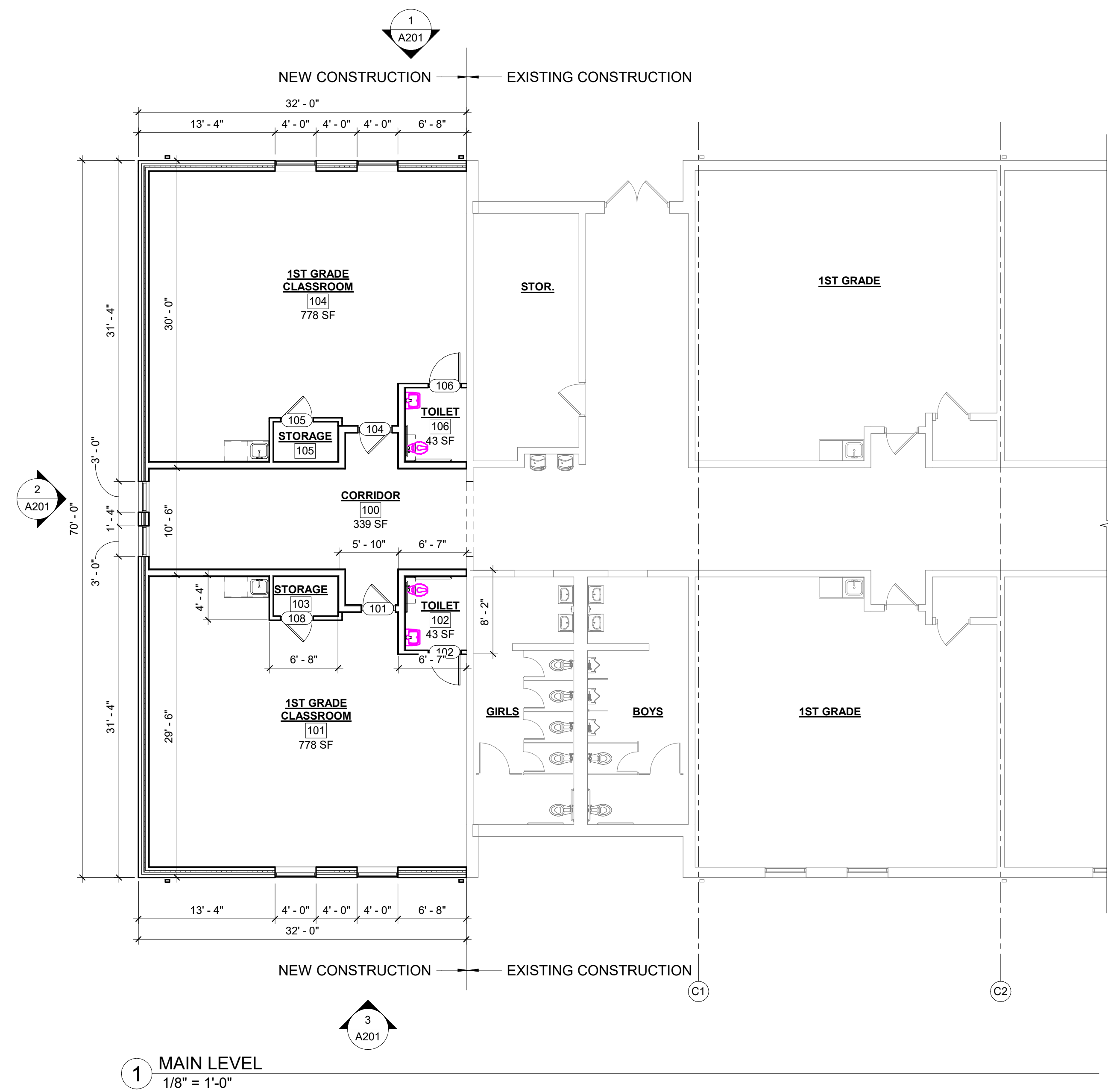
COMPOSITE PLAN

PROJECT NO.  
**24-5017**  
 DRAWING ISSUED DATE:  
**12/05/2025**  
 SHEET

**A101**

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**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

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CHECKED	HMC	CHECK DATE	

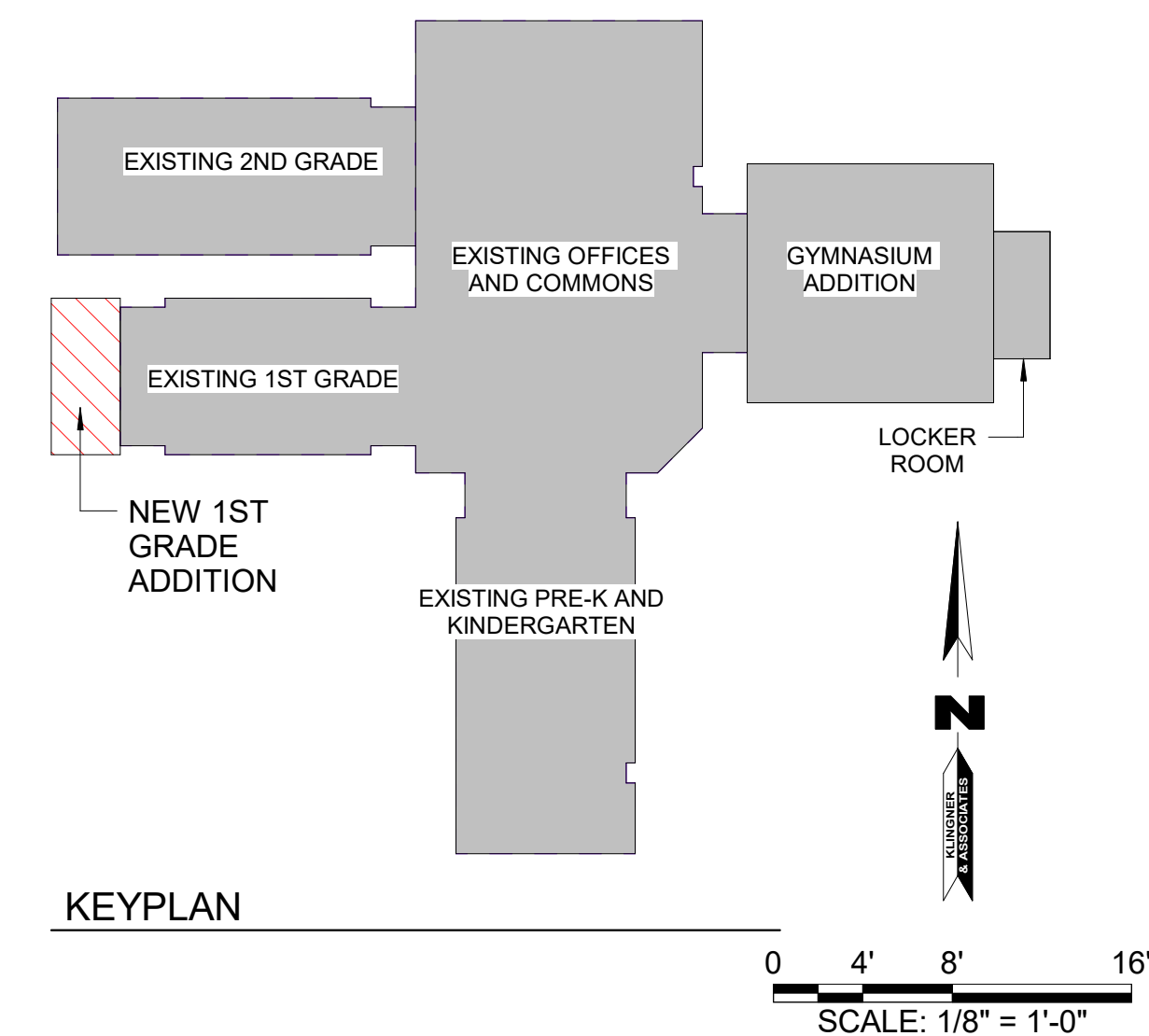
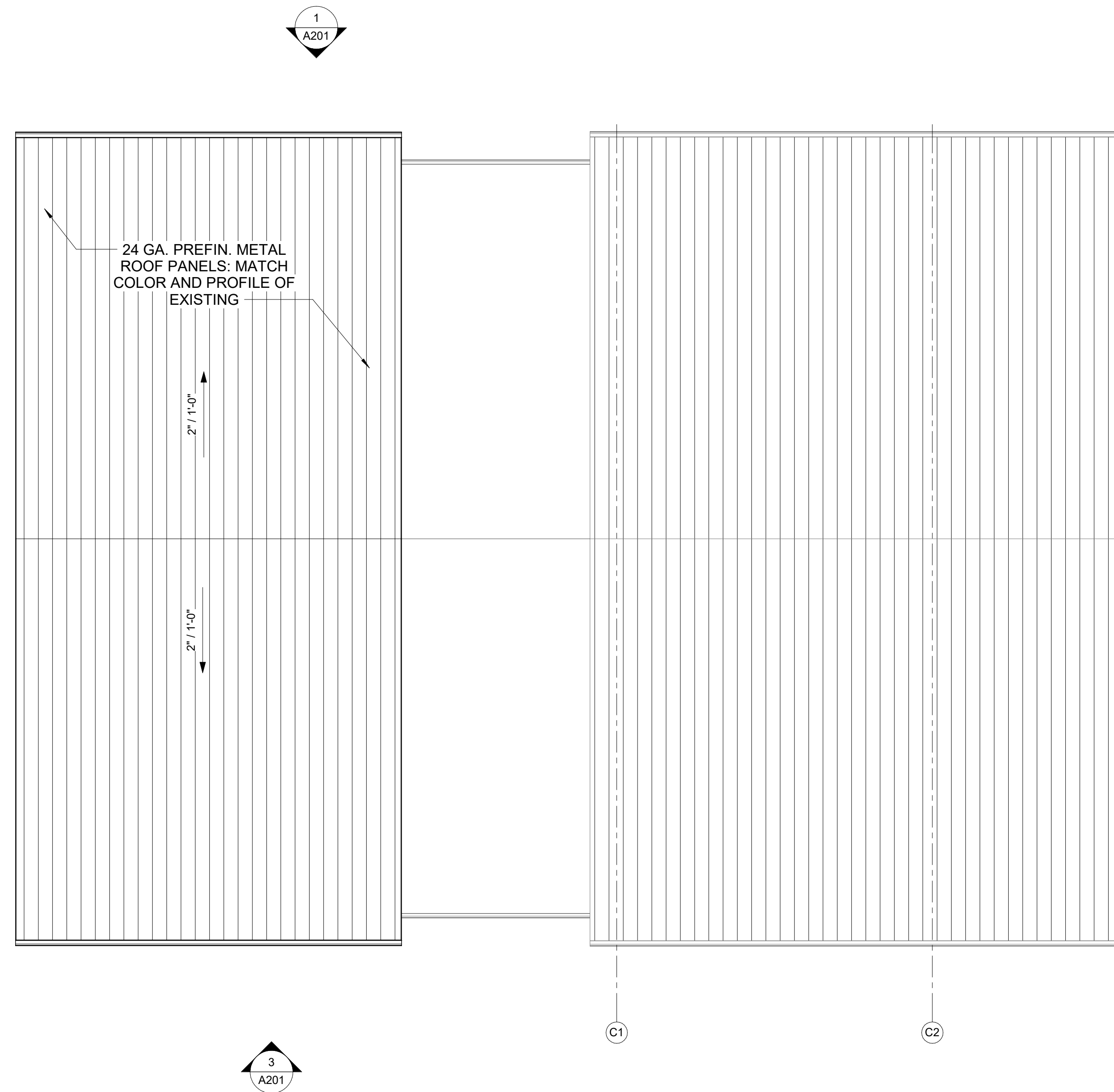
SHEET TITLE  
**FLOOR PLAN -**  
**1ST GRADE**  
**CLASSROOM WING**

PROJECT NO.  
**24-5017**  
 DRAWING ISSUED DATE:  
**12/05/2025**  
 SHEET  
**A102**

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



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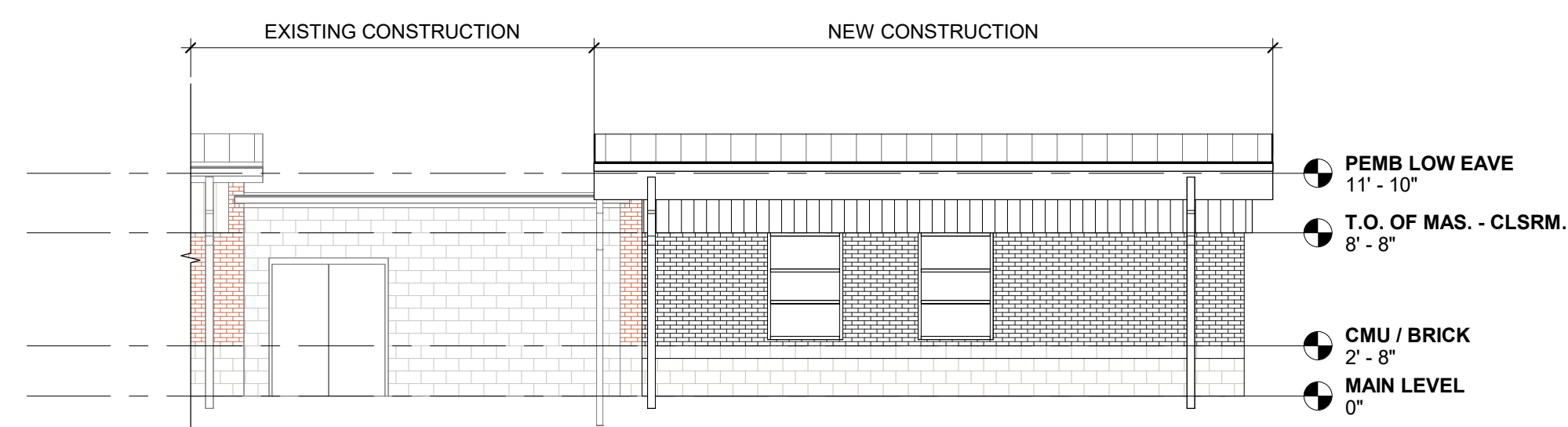
HALLSVILLE PRIMARY SCHOOL ADDITION  
HALLSVILLE R-IV SCHOOL DISTRICT  
421 EAST HIGHWAY 124  
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"	
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DESIGNED	DRAWN
FIELD	AUTHOR
	FIELD BOOK
CHECKED	CHECK DATE

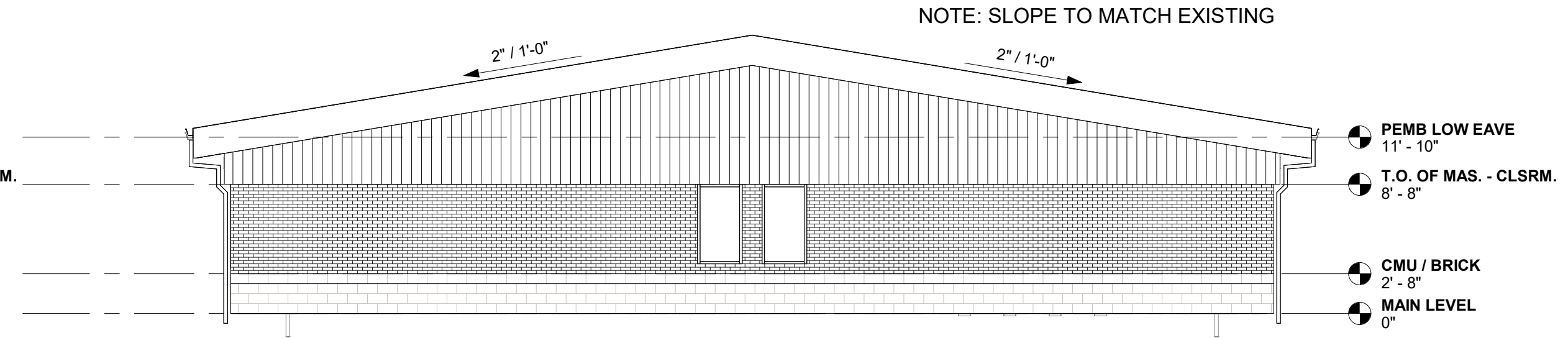
SHEET TITLE
ROOF PLAN
PROJECT NO. 24-5017
DRAWING ISSUED DATE: 12/05/2025
SHEET A120

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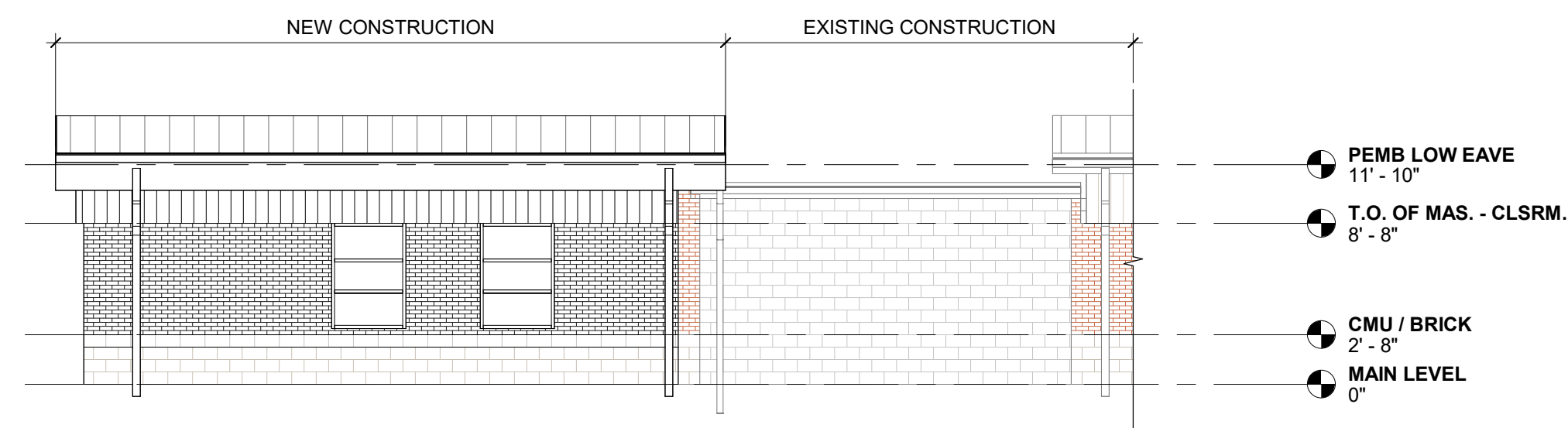
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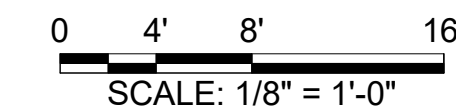
1 NORTH ELEVATION  
1/8" = 1'-0"



2 WEST ELEVATION  
1/8" = 1'-0"



3 SOUTH ELEVATION  
1/8" = 1'-0"



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HALLSVILLE R-IV SCHOOL DISTRICT  
421 EAST HIGHWAY 124  
HALLSVILLE, MO 65255

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DESIGNED	JRT	DRAWN	JRT
FIELD		FIELD BOOK	

CHECKED	HMC	CHECK DATE	
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SHEET TITLE

BUILDING ELEVATIONS

PROJECT NO. 24-5017

DRAWING ISSUED DATE: 12/05/2025

SHEET

A201

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**OWNER'S INFORMATION**

OWNER:  
 PROJECT NAME:  
 SITE ADDRESS:

EXISTING OR PLANNED CONSTRUCTION IS:  
 FIRE RESISTIVE OR NONCOMBUSTIBLE  
 WOOD FRAME OR ORDINARY (MASONRY WALLS WITH WOOD BEAMS)  
 UNKNOWN

INTENDED USE OF THE BUILDING IS:

THE SYSTEM IS INTENDED FOR THE FOLLOWING SPECIAL OCCUPANCIES:

AIRCRAFT HANGAR	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
FIXED GUIDEWAY TRANSIT SYSTEM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
RACE TRACK STABLE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
MARINE TERMINAL, PIER, OR WARF	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
AIRCRAFT TERMINAL	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
AIRCRAFT ENGINE TEST FACILITY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
POWER PLANT	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
WATER-COOLING TOWER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

(IF INTENDED FOR SPECIAL OCCUPANCY REFER TO NFPA STANDARD FOR SPRINKLER DENSITY/AREA CRITERIA)

IF PROTECTION OF ANY OF THE ABOVE LISTED SPECIALIZED OCCUPANCIES OR AREAS ARE SELECTED DESCRIBE THE TYPE, LOCATION, ARRANGEMENT AND INTENDED MAXIMUM QUANTITIES:

DESCRIBE PRODUCTS, INTENDED STORAGE ARRANGEMENT, AND HEIGHT OF ANY MATERIALS STORAGE OVER 12 FT IN HEIGHT:

DESCRIBE PRODUCTS, INTENDED STORAGE ARRANGEMENT, AND STORAGE HEIGHT OF ANY PLASTIC, RUBBER OR SIMILAR PRODUCTS OVER 5 FT NOT DESCRIBED ABOVE:

DESCRIBE ANY SPECIAL INFORMATION PERTAINING TO THE WATER SUPPLY INCLUDING KNOWN ENVIRONMENTAL CONDITIONS THAT MIGHT BE RESPONSIBLE FOR CORROSION, INCLUDING MICROBIOLOGICALLY INFLUENCED CORROSION:

THE FOLLOWING SPECIAL MATERIALS ARE INTENDED TO BE PRESENT:

FLAMMABLE OR COMBUSTIBLE LIQUIDS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
AEROSOL PRODUCTS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
NITRATE FILM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
PRYOXYLIN PLASTIC	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
COMPRESSED OR LIQUIFIED GAS CYLINDERS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
LIQUID OR SOLID OXIDIZERS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
ORGANIC PEROXIDE FORMULATIONS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
IDLE PALLETS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

**PRELIMINARY FLOW TEST DATA:**

THE FOLLOWING FIRE HYDRANT FLOW TESTS HAS BEEN PROVIDED FOR BIDDING PURPOSES ONLY. THE FIRE SPRINKLER DESIGNER SHALL SELF-PERFORM A FLOW TEST AT THE FIRE HYDRANT CHOSEN FOR FIRE SPRINKLER SYSTEM DESIGN:

HYDRANT TESTED:  
 FLOWRATE: 0 GPM  
 STATIC PRESSURE: 0 RH2O  
 RESIDUAL PRESSURE: 0 RH2O

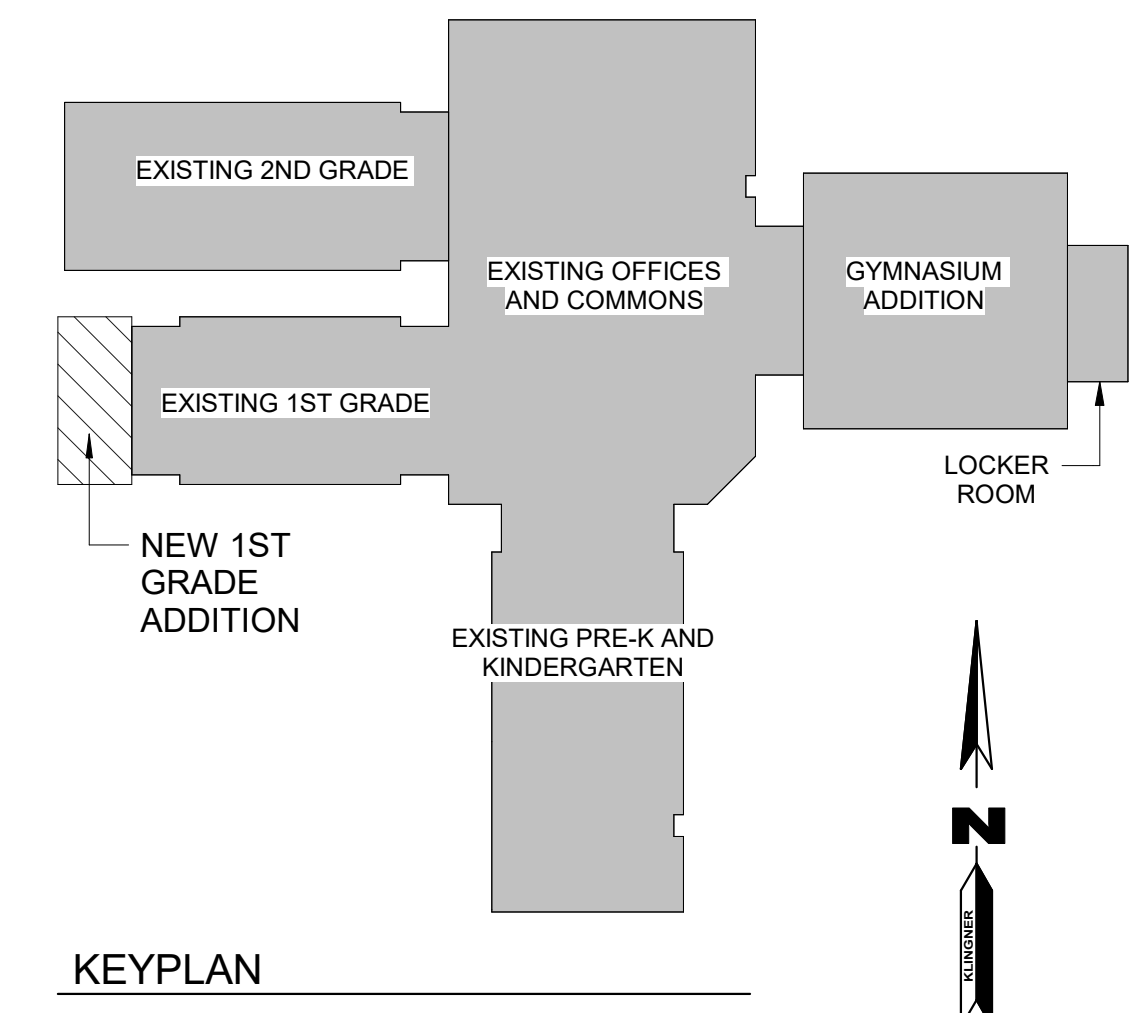
IF ANY OF THE ABOVE LISTED MATERIALS ARE INTENDED TO BE PRESENT DESCRIBE TYPE, LOCATION, ARRANGEMENT, AND INTENDED MAXIMUM QUANTITIES:

FIRE SPRINKLER PROTECTION IS INTENDED FOR ONE OF THE FOLLOWING SPECIALIZED OCCUPANCIES OR AREAS:

SPRAY AREA OR MIXING ROOM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
SOLVENT EXTRACTION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
LABORATORY USING CHEMICALS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
OXYGEN-FUEL GAS SYSTEM OR LIQUIFIED GASES	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
ACETYLENE CYLINDER CHARGING	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
PRODUCTION OR USE OF COMPRESSED OR LIQUIFIED GASES	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
COMMERCIAL COOKING OPERATION	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CLASS A HYPERBARIC CHAMBER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CLEANROOM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
INCINERATOR OR WASTE HANDLING SYSTEM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
LINEN HANDLING SYSTEM	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
INDUSTRIAL FURNACE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
WATER-COOLING TOWER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

KEYNOTE LEGEND	
VALUE	DESCRIPTION

ROOM NO.	ROOM NAME	AREA	OCCUPANCY CLASSIFICATION (IBC)	HAZARD CLASSIFICATION (NFPA 13)	MINIMUM REQUIRED DENSITY (GPM/SF)	RISER NAME	SPRINKLER HEAT TEMP. (°F)	SPRINKLER HEAD TYPE
----------	-----------	------	--------------------------------	---------------------------------	-----------------------------------	------------	---------------------------	---------------------



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

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

REVISION HISTORY

DESCRIPTION	DATE	APPR
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ISSUED FOR: 12/05/25  
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HALLSVILLE PRIMARY SCHOOL ADDITION  
 HALLSVILLE R-IV SCHOOL DISTRICT  
 421 EAST HIGHWAY 124  
 HALLSVILLE, MO 65255

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DESIGNED	DRAWN
Designer	Author
FIELD	FIELD BOOK
CHECKED	CHECK DATE
Checker	

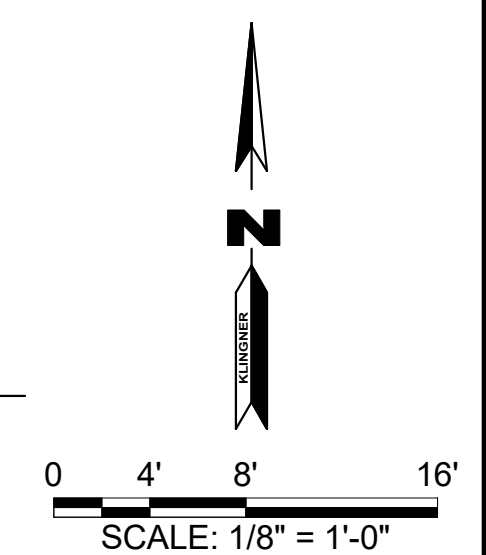
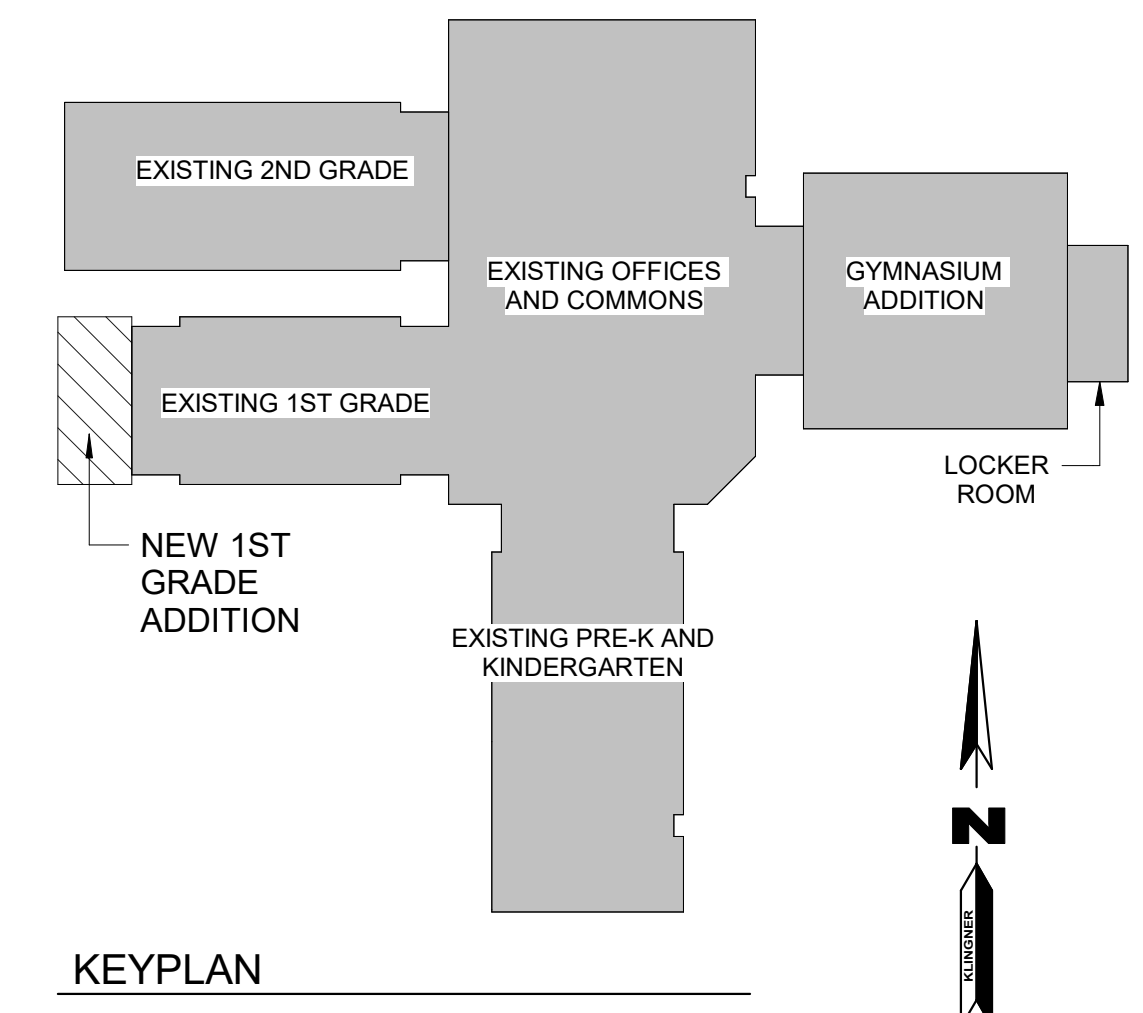
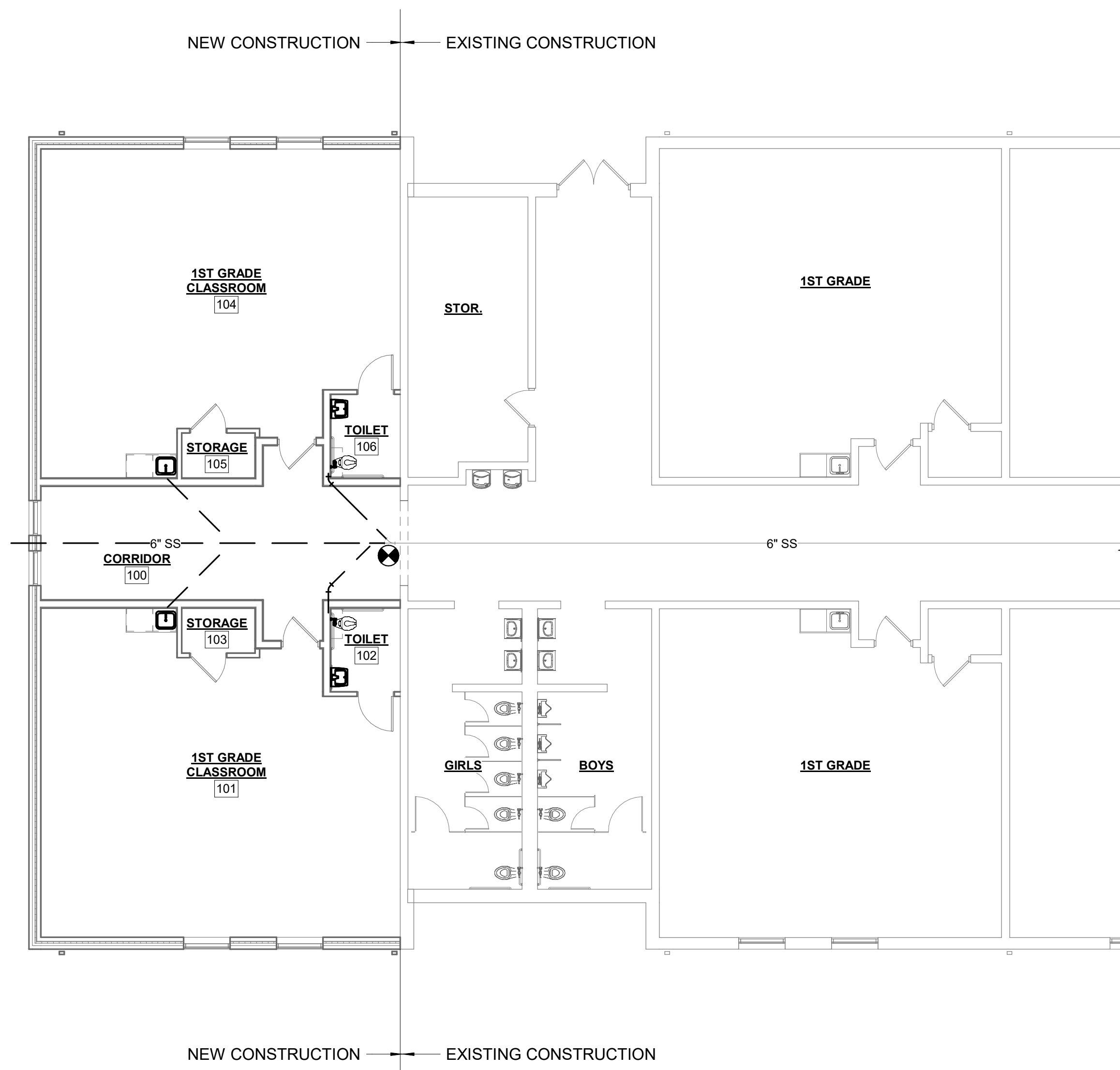
SHEET TITLE  
**FIRE PROTECTION PLAN**

PROJECT NO.  
 24-5017  
 DRAWING ISSUED DATE:  
 12/05/25  
 SHEET  
**FP101**

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KEYNOTE LEGEND	
VALUE	DESCRIPTION



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

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FIELD	Author
Designer	FIELD BOOK
CHECKED	CHECK DATE
Checker	

SHEET TITLE  
**BELOW FLOOR PLUMBING PLAN**

PROJECT NO.  
**24-5017**  
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PLUMBING FIXTURE SCHEDULE

TAG	ADA	TYPE	DESCRIPTION	ROUGH-IN PIPE SIZE					BASIS OF DESIGN		ACCESSORIES		BASIS OF DESIGN		REMARKS
				CW	HW	SS	V	SD	MAKE	MODEL	TYPE	DESCRIPTION	MAKE	MODEL	

KEYNOTE LEGEND

VALUE	DESCRIPTION

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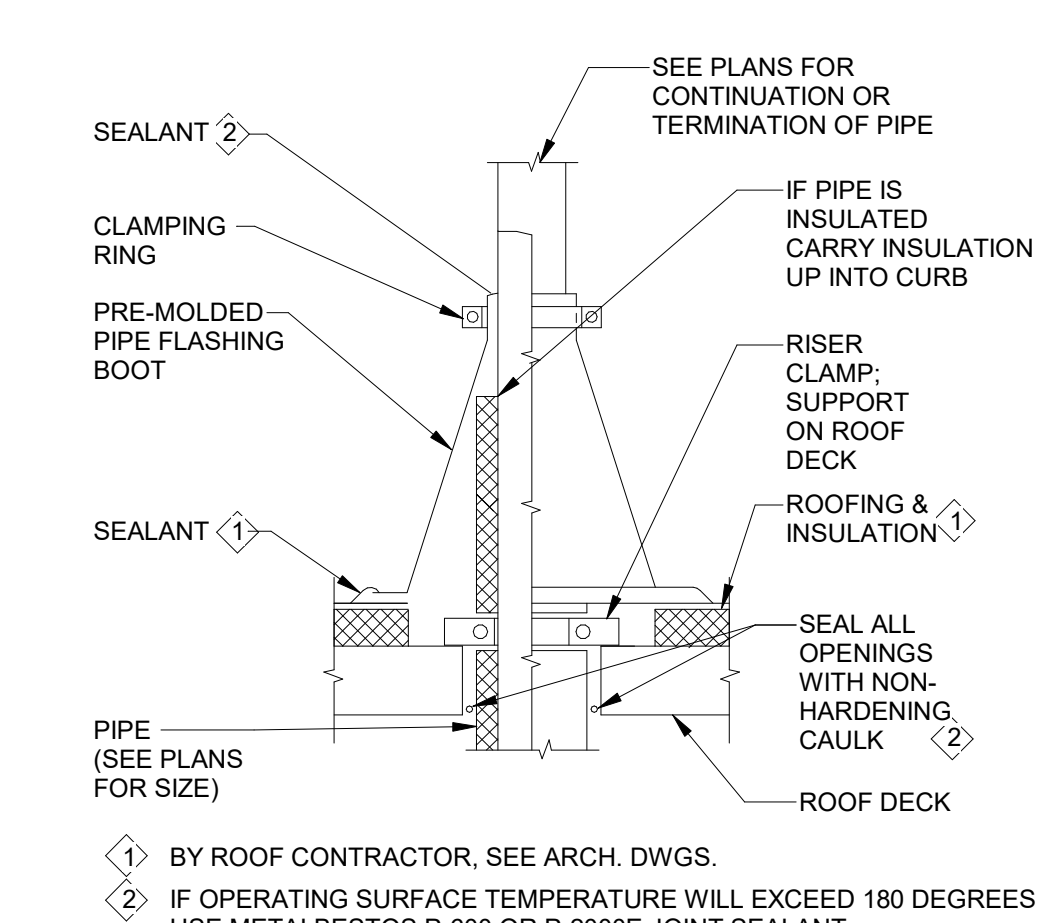
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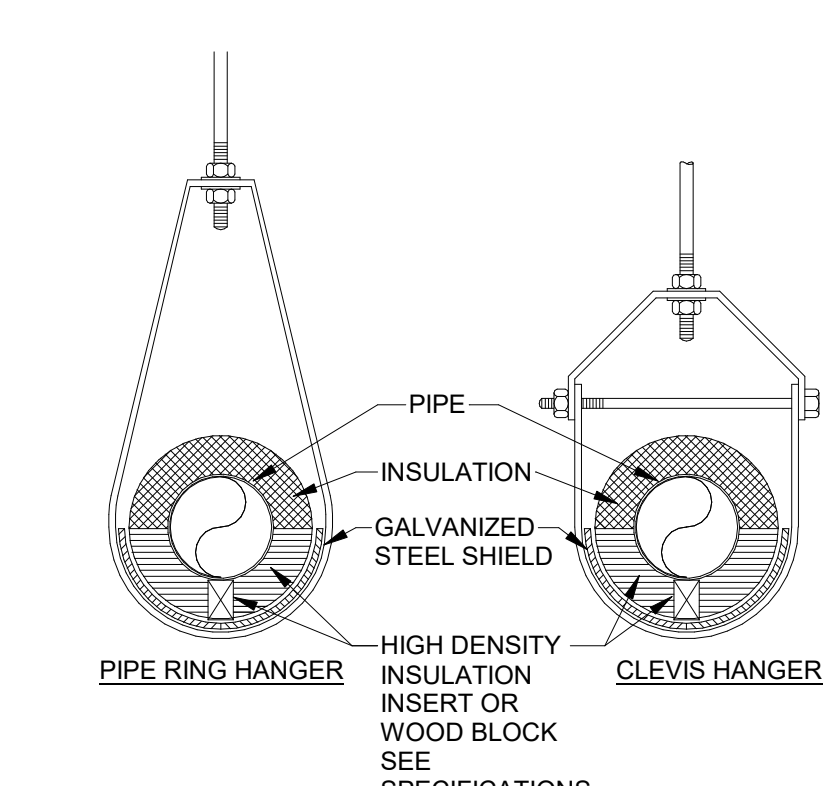
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**NOT FOR CONSTRUCTION**

**HALLSVILLE PRIMARY SCHOOL ADDITION**  
**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

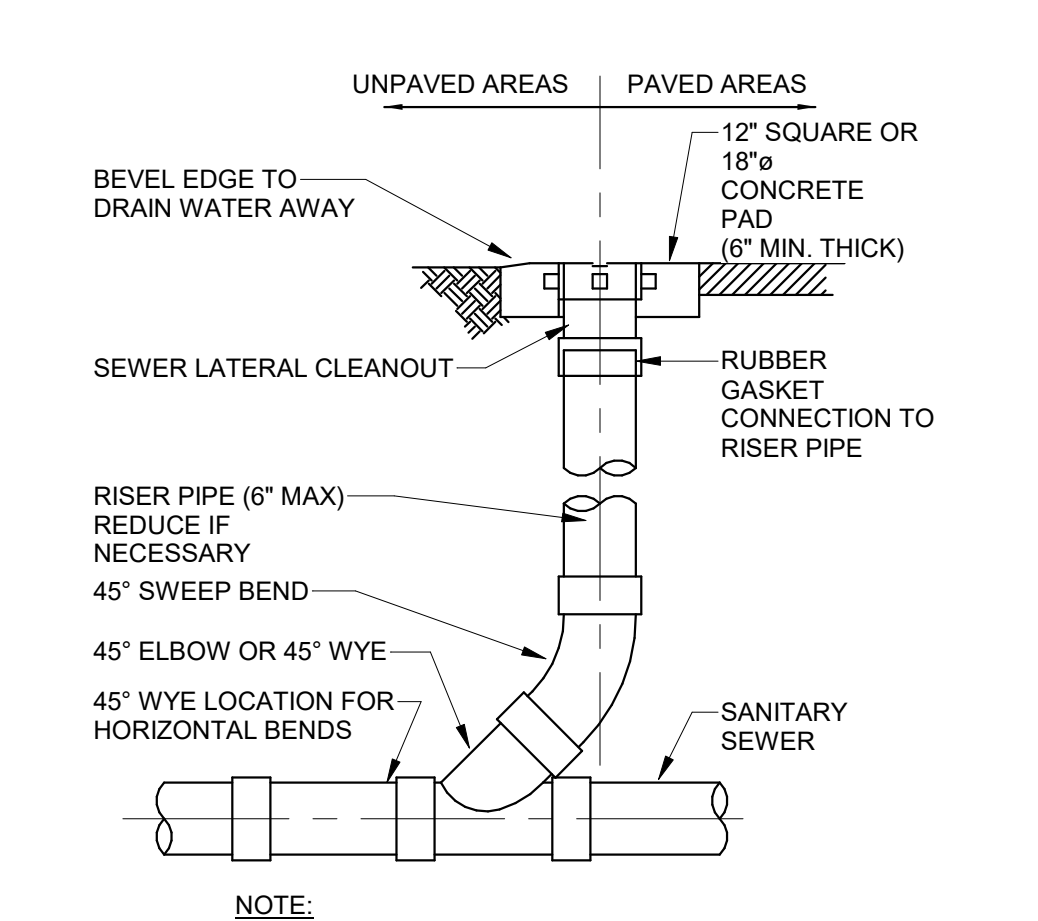
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 FIELD: [ ] FIELD BOOK: [ ]  
 CHECKED: [ ] CHECK DATE: [ ]  
 SHEET TITLE:  
**ABOVE FLOOR PLUMBING PLAN**  
 PROJECT NO.: 24-5017  
 DRAWING ISSUED DATE: 12/05/25  
 SHEET:  
**P102**



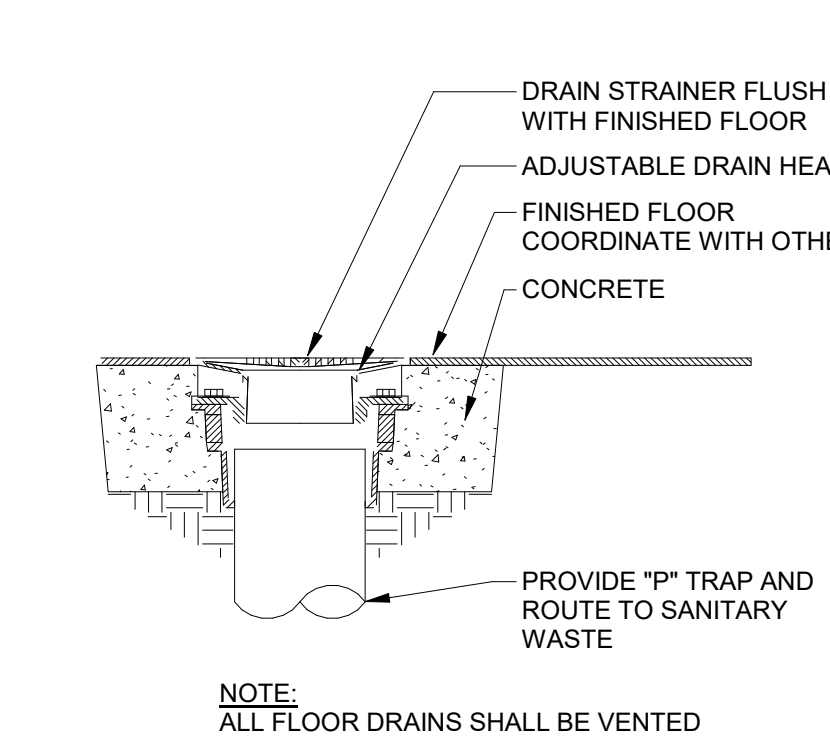
**5** PIPE PENETRATING ROOF\_B NTS



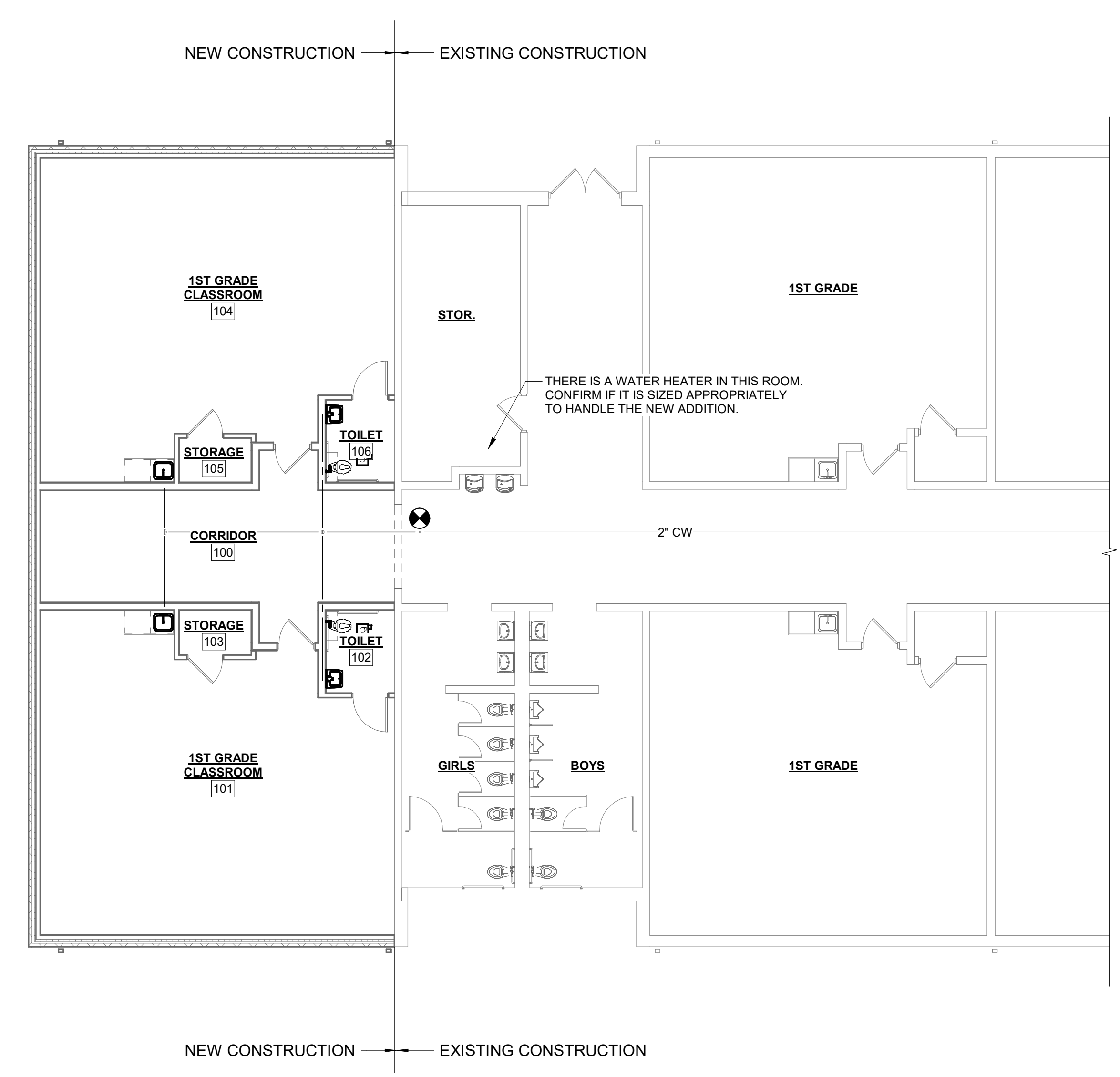
**4** INSULATED PIPE AT HANGER DETAIL NTS



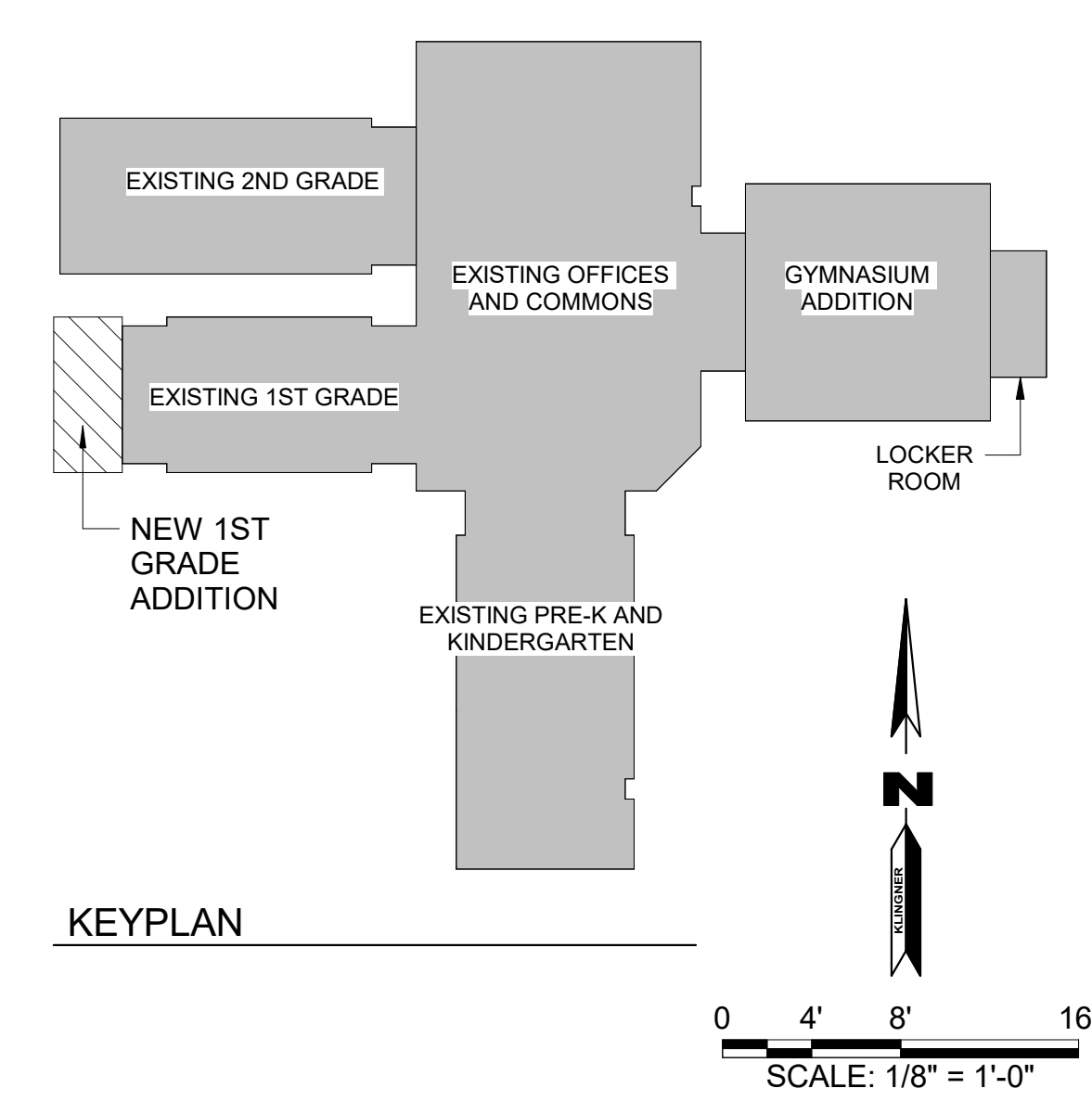
**3** EXTERIOR CLEANOUT DETAIL NTS



**2** FLOOR DRAIN DETAIL NTS



**1** ABOVE FLOOR PLUMBING PLAN Copy 1  
 1/8" = 1'-0"



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**HALLSVILLE PRIMARY SCHOOL ADDITION**  
**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

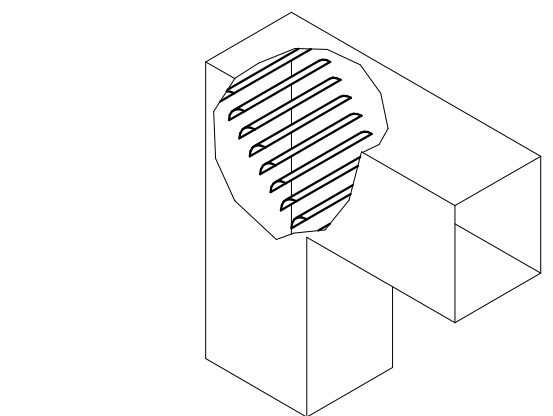
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SHEET TITLE  
**MECHANICAL FLOOR PLAN**

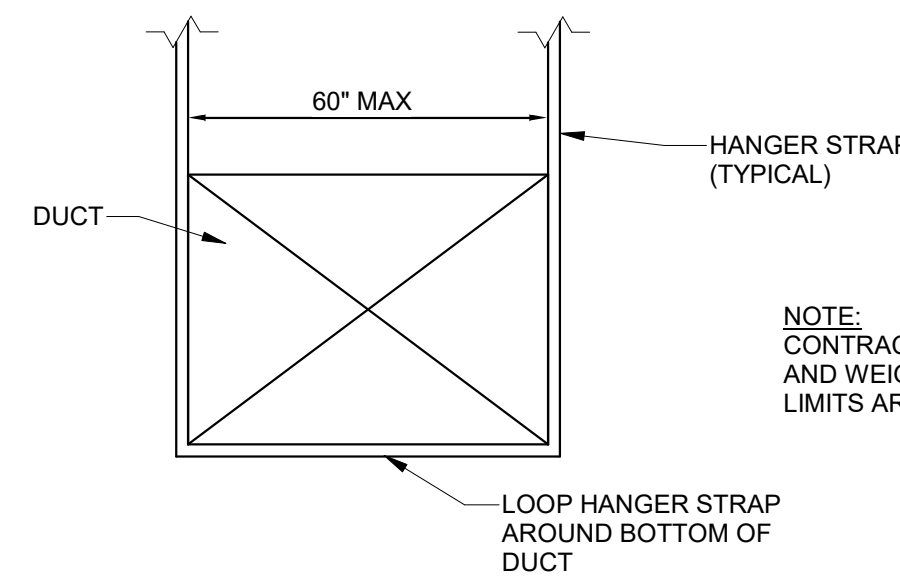
PROJECT NO.  
**24-5017**  
 DRAWING ISSUED DATE:  
**12/05/25**  
 SHEET  
**M101**

KEYNOTE LEGEND	
VALUE	DESCRIPTION



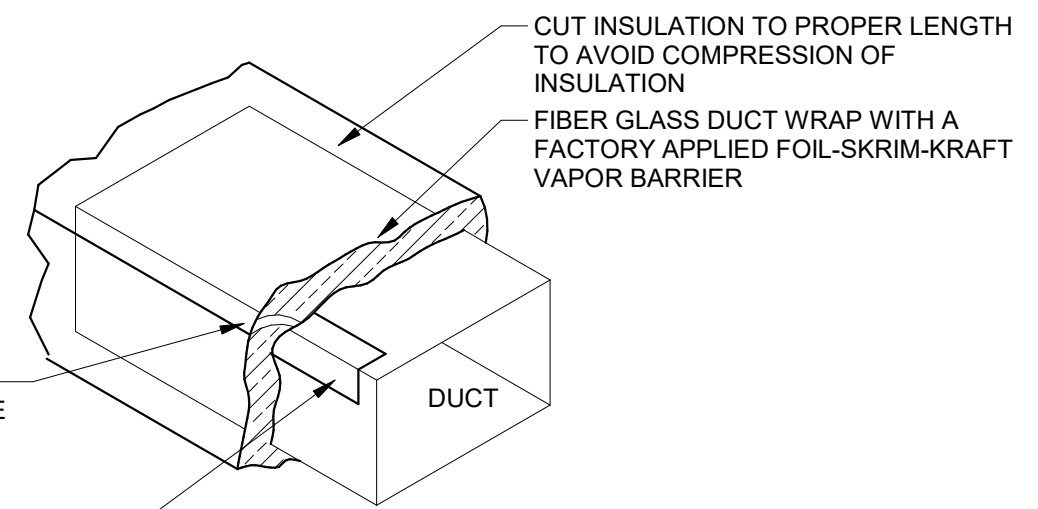
**NOTE:**  
 1. ALL DUCT 90° ELBOWS SHALL BE RADIUS ELBOWS (1.5" DEPTH) UNLESS CLEARANCES REQUIRE A SQUARE RADIUS.  
 2. ALL SQUARE RADIUS ELBOWS SHALL INCLUDE TURNING VANES PER SPECIFICATIONS.

**6 TURNING VANE DETAIL**  
 NTS



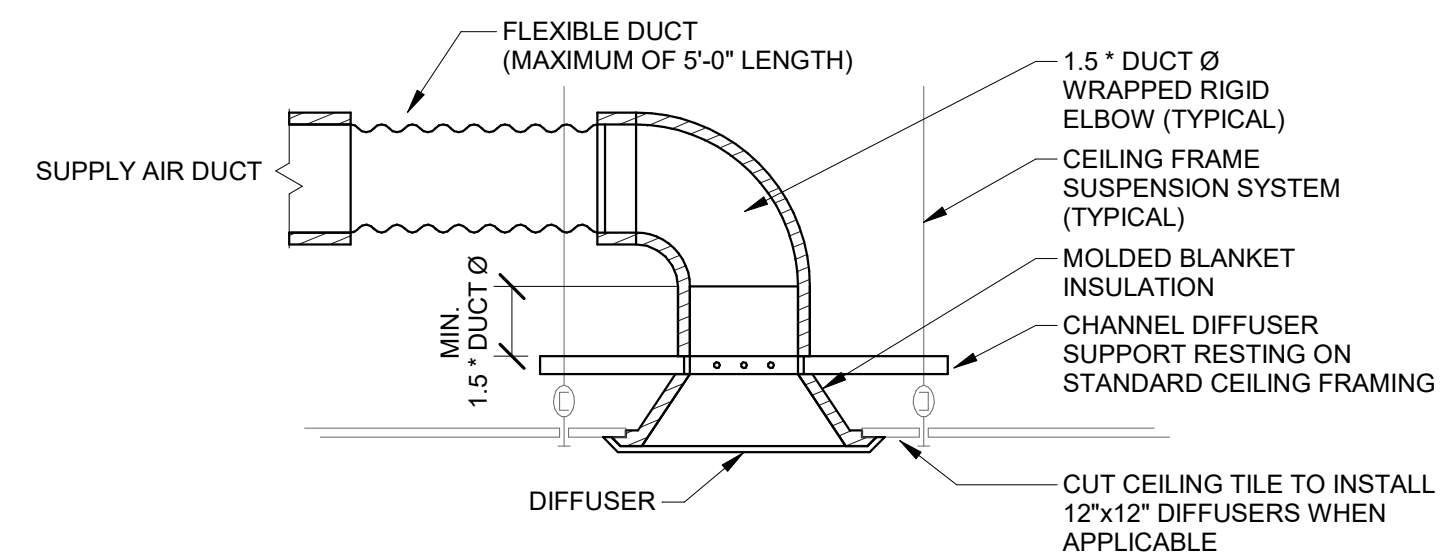
**NOTE:**  
 CONTRACTOR SHALL VERIFY ALL LOAD LIMITS ON HANGER AND WEIGHTS OF DUCT TO ASSURE ALLOWABLE LOAD LIMITS ARE NOT EXCEEDED.

**5 STRAP HANGER DETAIL**  
 NTS



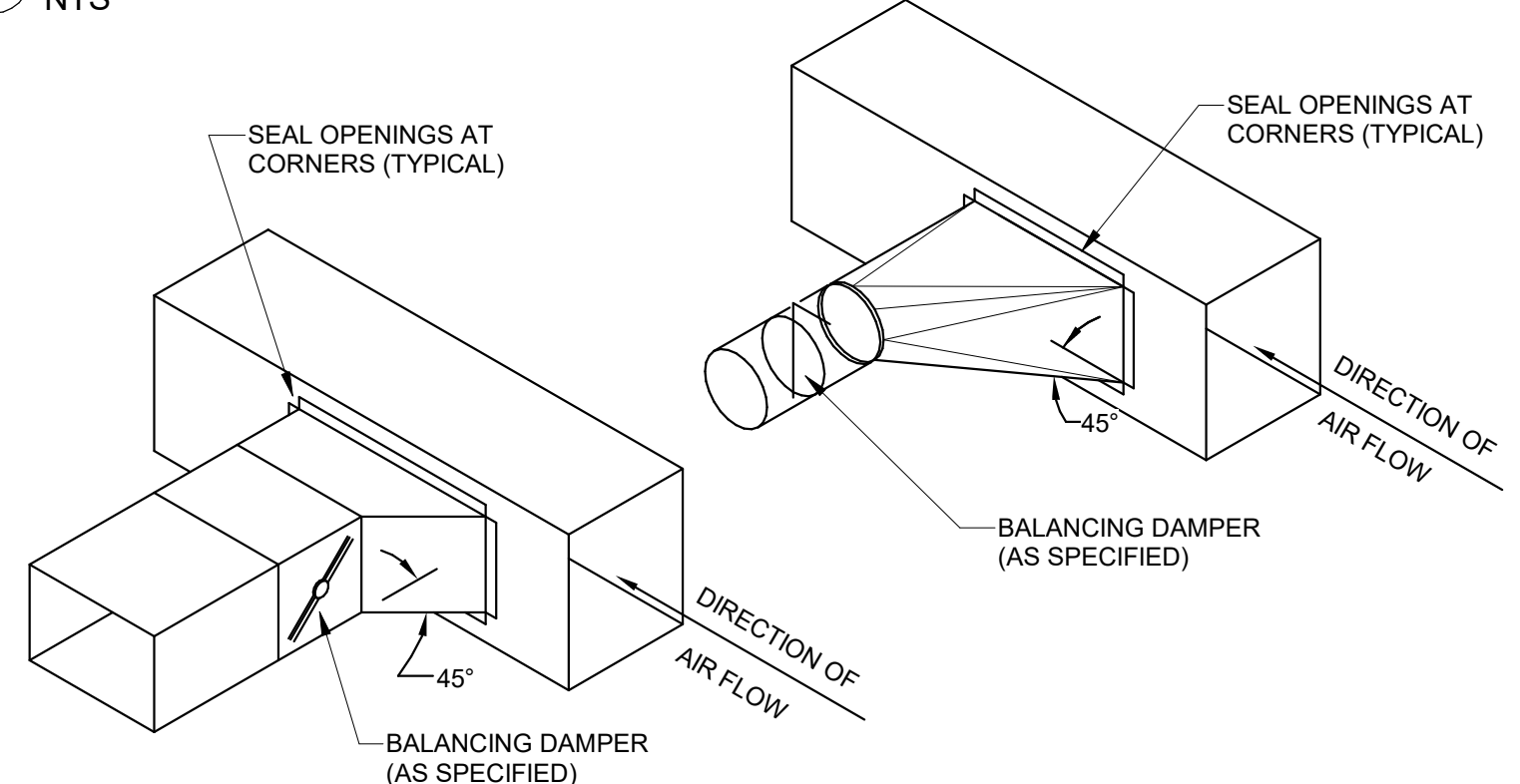
STAPLE 2" FLANGE THEN TAPE OVER THE JOINT & STAPLE TO PROVIDE VAPOR-TIGHT SEAL. SEAL ALL SEAMS WITH TAPE AND MASTIC PER IECC.

**4 DUCT WRAP DETAIL**  
 NTS

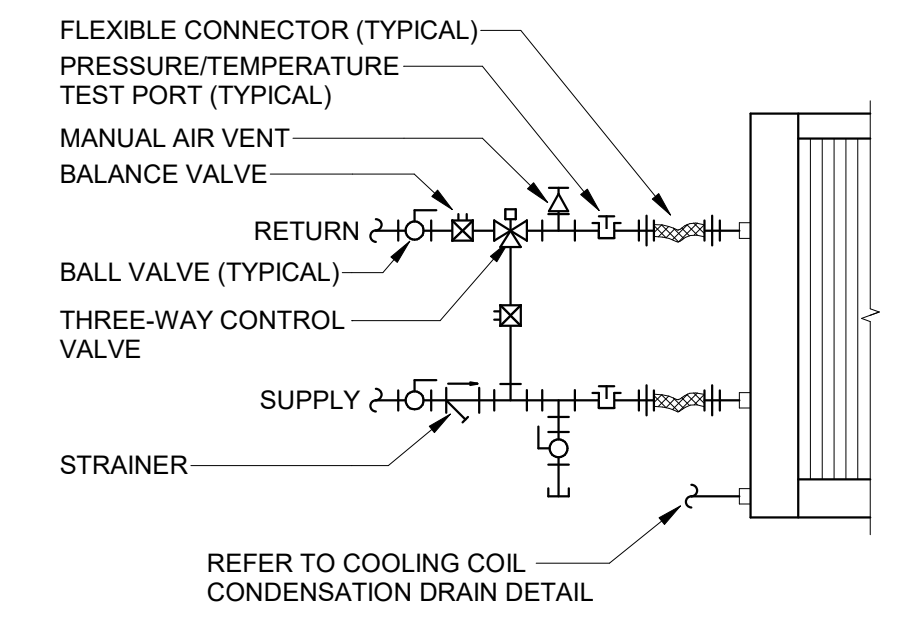


**NOTES:**  
 1. THE CEILING SUPPORT SYSTEM MUST SUPPORT DIFFUSER WEIGHT WHEN FLEXIBLE CONNECTIONS ARE USED. THE DIFFUSER SHOULD NOT SUPPORT THE TILE AND THE TILES SHOULD NOT SUPPORT THE DIFFUSER.  
 2. IF THERE IS NOT SUFFICIENT SPACE ABOVE A CEILING TO PROVIDE A LENGTH OF DUCT THAT IS A MINIMUM OF 1.5" DUCT CONNECTION DIAMETER REQUEST DIRECTION FROM THE ENGINEER.

**3 DIFFUSER CONNECTION DETAIL**  
 NTS

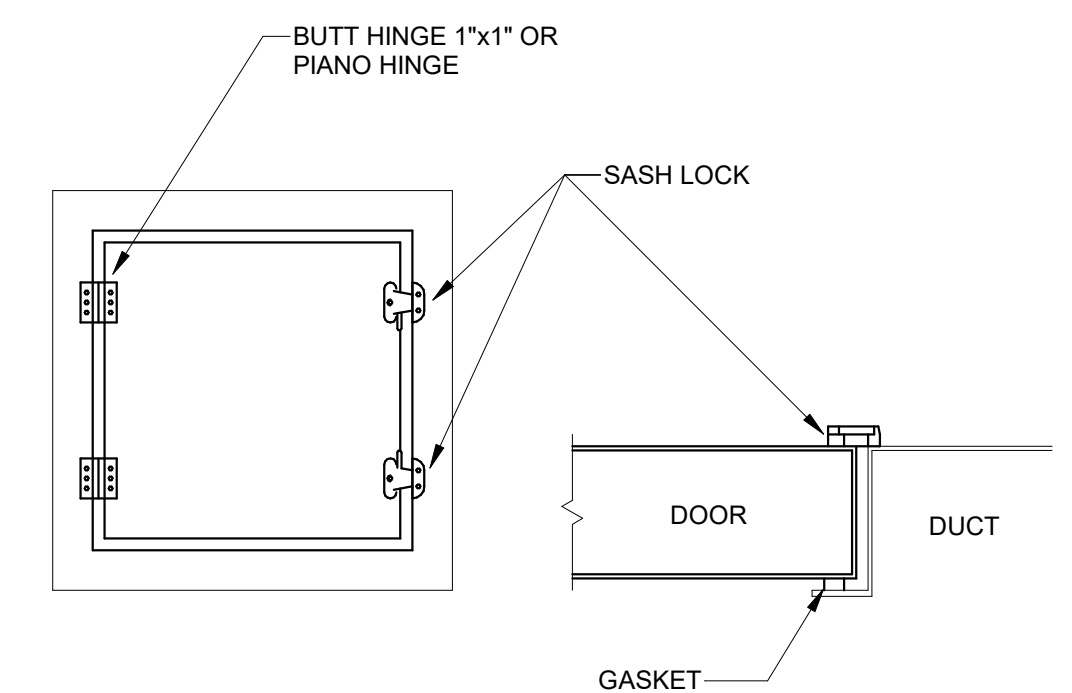


**2 BRANCH DUCT CONNECTION DETAIL (TYPICAL)**  
 NTS

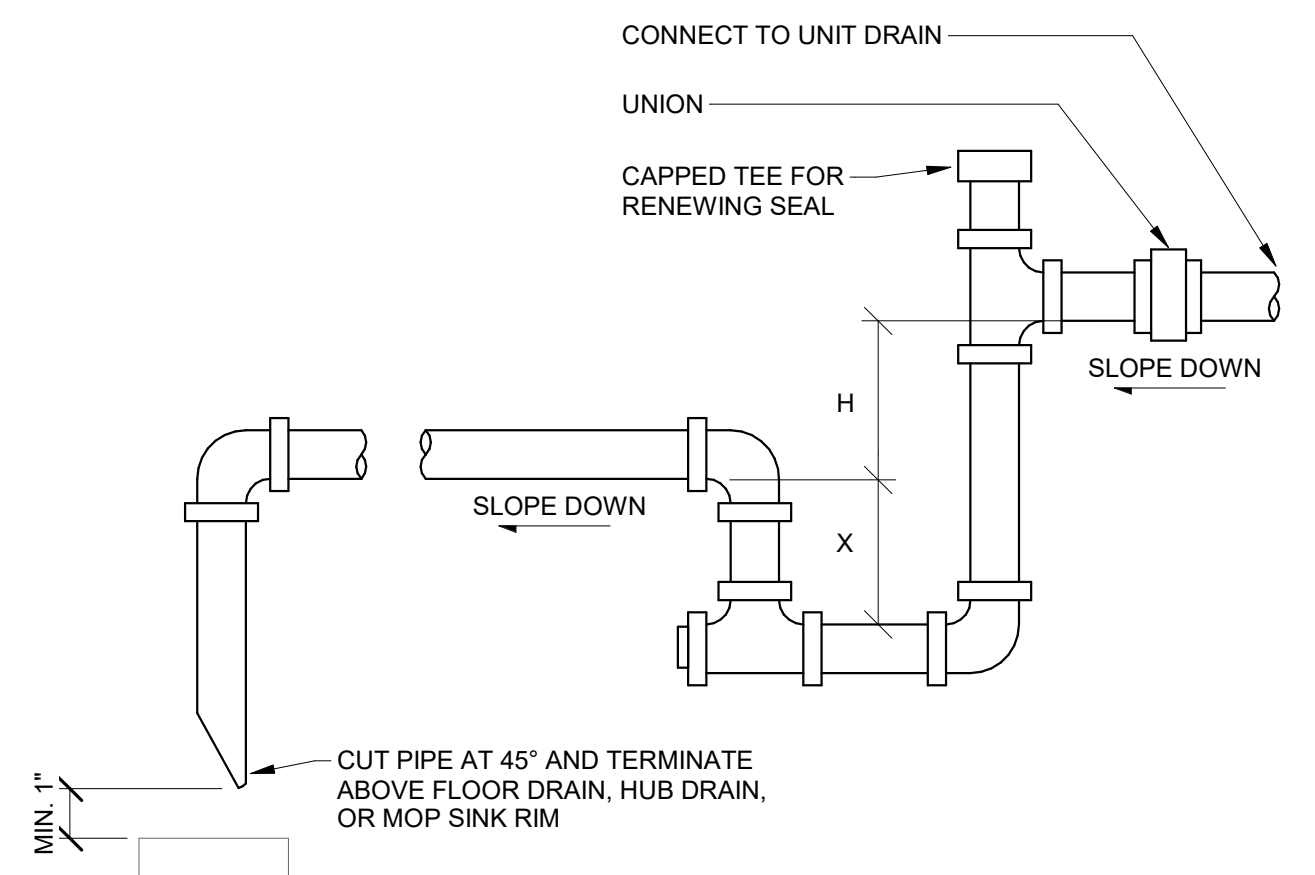


**NOTES:**  
 1. REFER TO SPECIFICATIONS FOR PIPE MATERIAL AND VALVE AND ACCESSORIES REQUIREMENTS.

**7 COIL CONNECTION DETAIL (3-WAY CONTROL VALVE)**  
 NTS

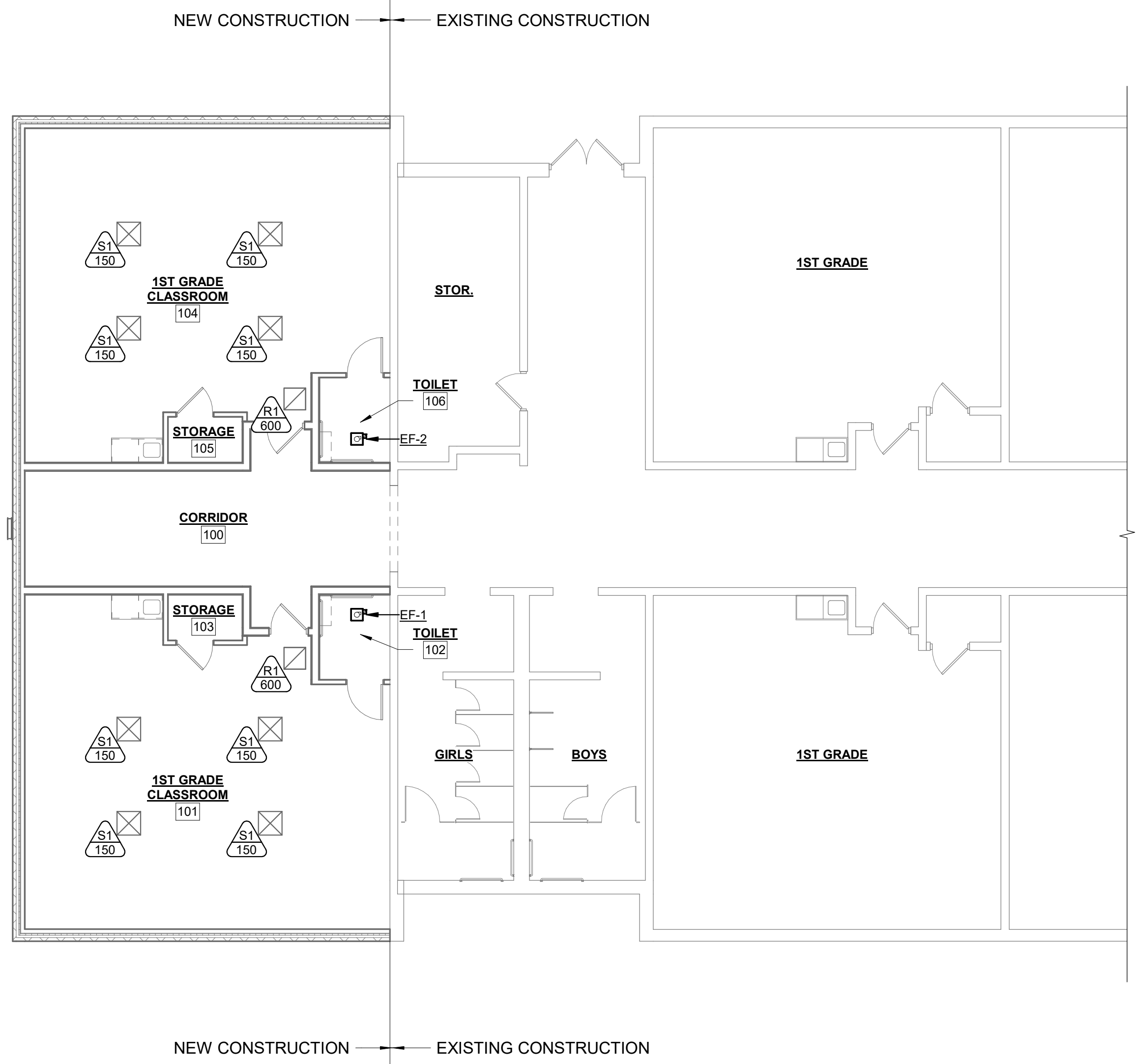


**8 DUCT ACCESS DOOR DETAIL**  
 NTS

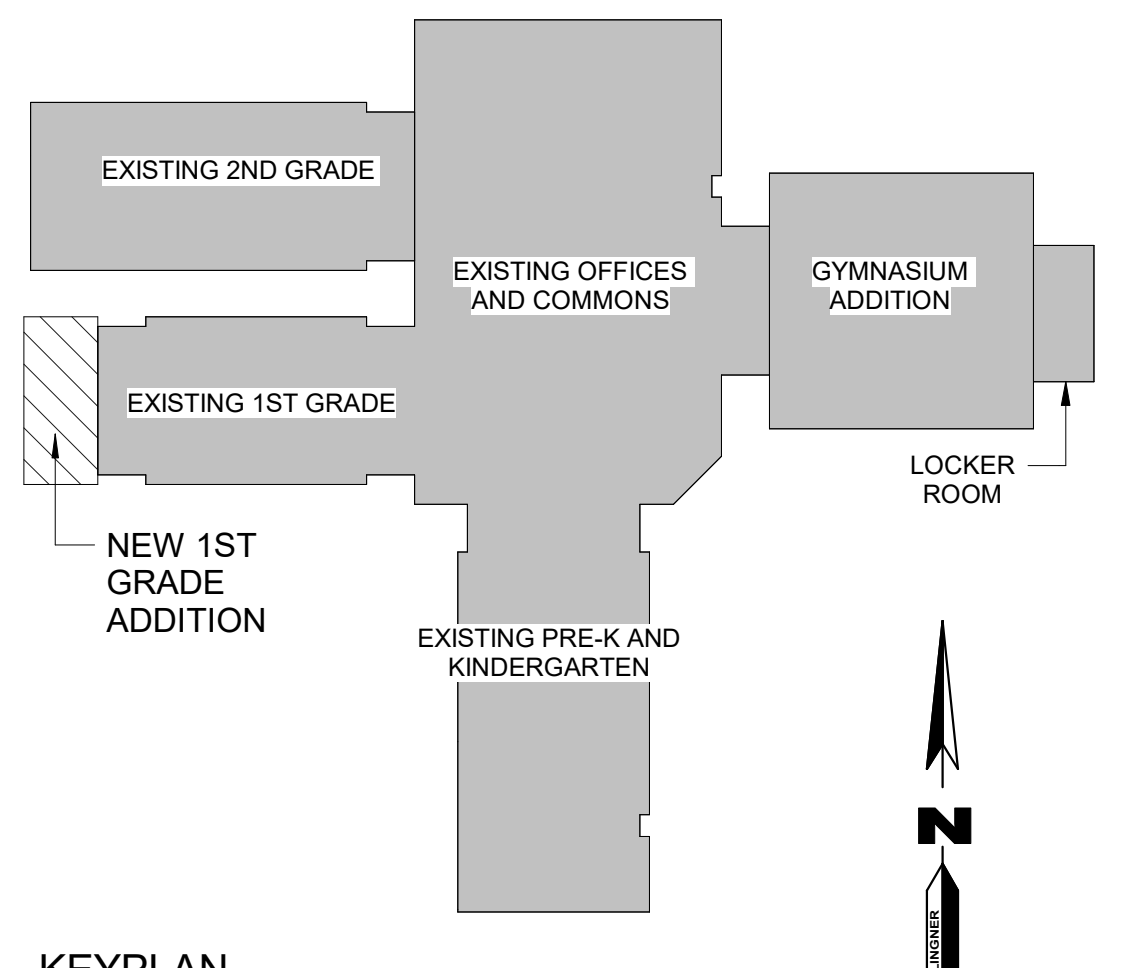


**NOTES:**  
 1. H = 1" + S.P.  
 2. X = H/2  
 3. FOR DRAW-THRU UNITS ONLY.  
 4. REFER TO SPECIFICATIONS FOR PIPING MATERIAL.

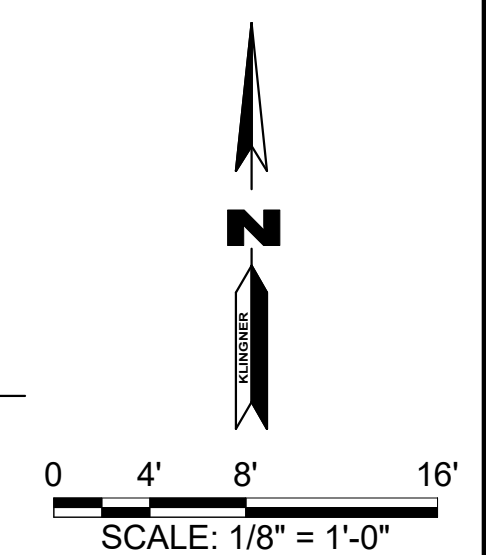
**9 COOLING COIL CONDENSATION DRAIN DETAIL**  
 NTS



**1 MECHANICAL FLOOR PLAN**  
 1/8" = 1'-0"



**KEYPLAN**



AIR HANDLING UNIT SCHEDULE																								
MARK	DESCRIPTION	BASIS OF DESIGN		COOLING					HEATING					AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. WG)	ELECTRICAL					NOTES			
		MANUFACTURER	MODEL	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)	CAPACITY (BTU/HR)	ENTERING WATER TEMPERATURE (DEG. F)	LEAVING WATER TEMPERATURE (DEG. F)	FLOW RATE (GPM)	PRESSURE DROP (FT)			VOLTAGE	PHASE	HZ	MCA	MOCP				
AHU-1	HORIZONTAL AIR HANDLING UNIT			11,600	44	54	3		22,000	160	140	3		600					208	1	60			1
AHU-2	HORIZONTAL AIR HANDLING UNIT			11,600	44	54	3		22,000	160	140	3		600					208	1	60			1
DOA-1	HORIZONTAL AIR HANDLING UNIT			58,860	44	54	12		53,000	160	140	6		600					208	1	60			1

NOTES:  
1. FURISH UNIT WITH 5KW ELECTRIC HEATER.

KEYNOTE LEGEND	
VALUE	DESCRIPTION

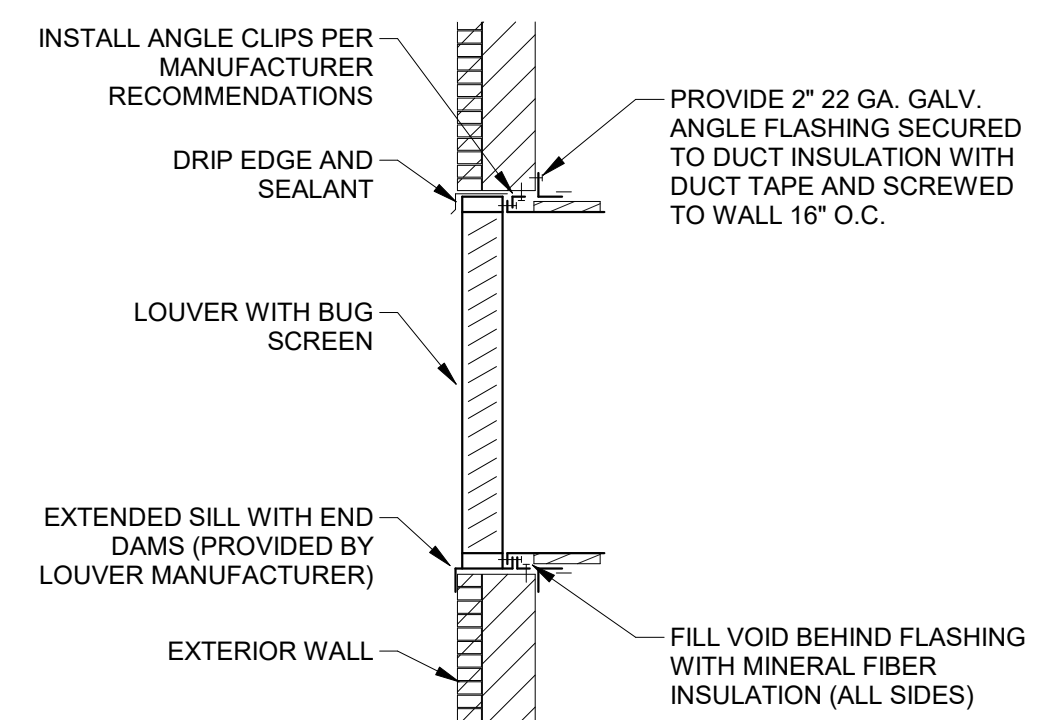
GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE																					
TAG	TYPE	DESCRIPTION	FACE SIZE		CONNECTION SIZE			MAX. AIRFLOW	MAX. TOTAL P.D.	THROW			MAX. NC	MATERIAL	FINISH	FRAME/BORDER	DAMPER	ACCESSORIES	BASIS OF DESIGN		REMARKS
			WIDTH	HEIGHT	RECTANGULAR WIDTH	RECTANGULAR HEIGHT	ROUND			150 FPM	100 FPM	50 FPM							MAKE	MODEL	
L1	RETURN GRILLE	EXTRUDED ALUMINUM, STATIONARY	24"	24"	22"	22"		3,000	0.1 in-wg				30	ALUMINUM	WHITE	LAY-IN	--		TITUS KRUEGER PRICE	50F	
S1	SUPPLY DIFFUSER	HIGH PERFORMANCE, 3-CONE, CEILING MOUNT	24"	24"			6"	250	0.19 in-wg	4'	6'	12'	30	ALUMINUM	WHITE	LAY-IN	--		TITUS KRUEGER PRICE	TMS-AA	

**QUESTIONS:**  
1. PLEASE CONFIRM BOILER OPERATING WATER TEMPERATURES.

LOUVER SCHEDULE																
MARK	DESCRIPTION	FUNCTION	AIR FLOW (CFM)	WIDTH (IN.)	HEIGHT (IN.)	FRAME DEPTH (IN.)	FREE AREA (SQ. FT.)	MAX. P.D. (IN. WG.)	MAX. VELOCITY (FT/MIN)	MATERIAL	FINISH	TYPE	ACTUATOR	MAKE	MODEL	REMARKS
L1	INTAKE LOUVER	OUTDOOR AIR INTAKE	600			4	1.2		500	ALUMINUM	BAKED ENAMEL	BACKDRAFT	N/A	RUSKIN		INCLUDE EXTENDED SILL AND END DAMS, INSECT SCREEN

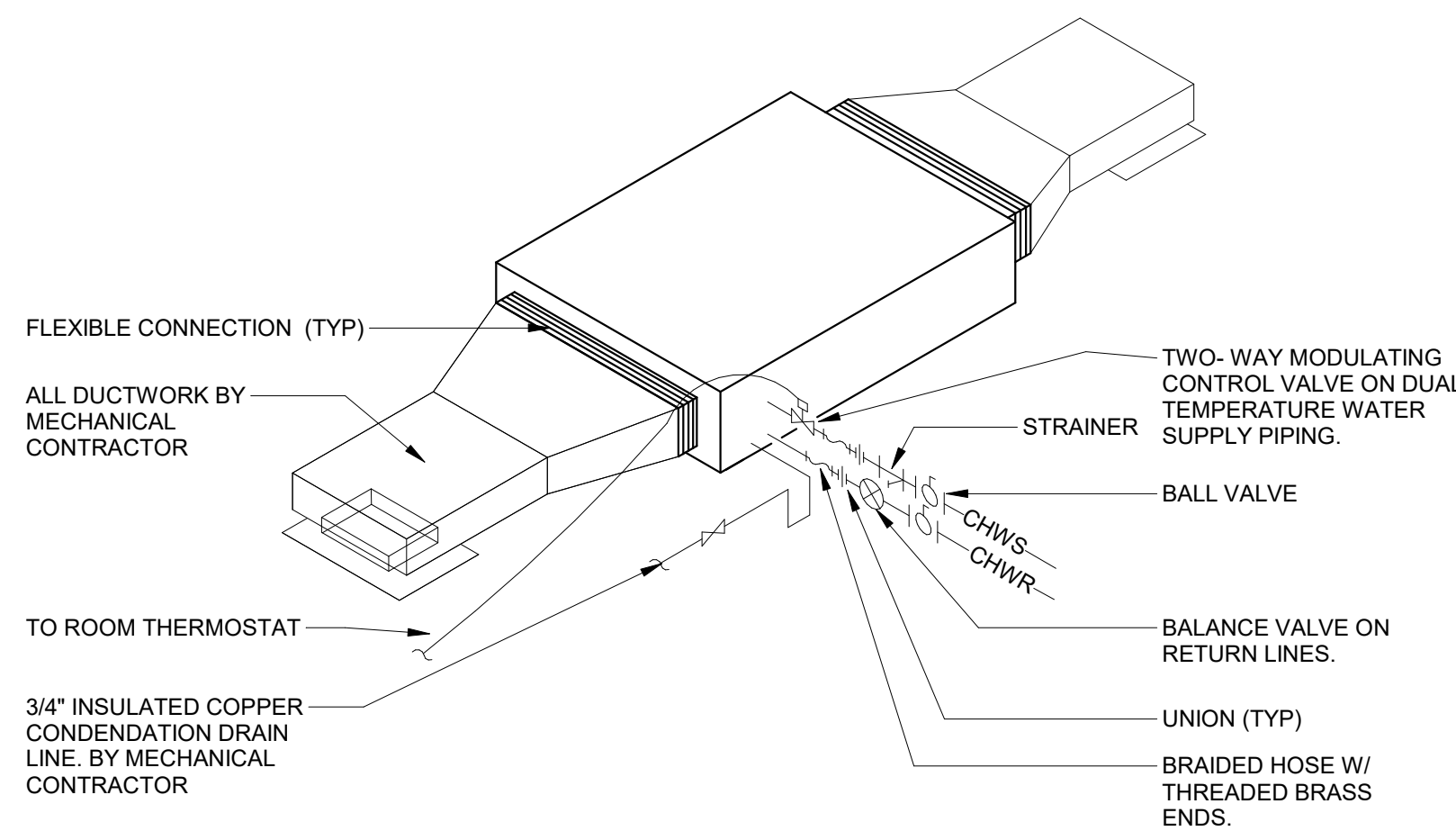
EXHAUST FAN SCHEDULE												
MARK	DESCRIPTION	MANUFACTURER	MODEL	AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. WG.)	HP	RPM	VOLTAGE	PHASE	HZ	BREAKER SIZE	NOTES
EF-2	CEILING MOUNTED EXHAUST FAN			70				115	1	60		1
EF-1	CEILING MOUNTED EXHAUST FAN			70				115	1	60		1

NOTES:  
1. RESTROOM EXHAUST FANS SHALL BE ENABLED BY THE RESTROOM OCCUPANCY SENSOR.

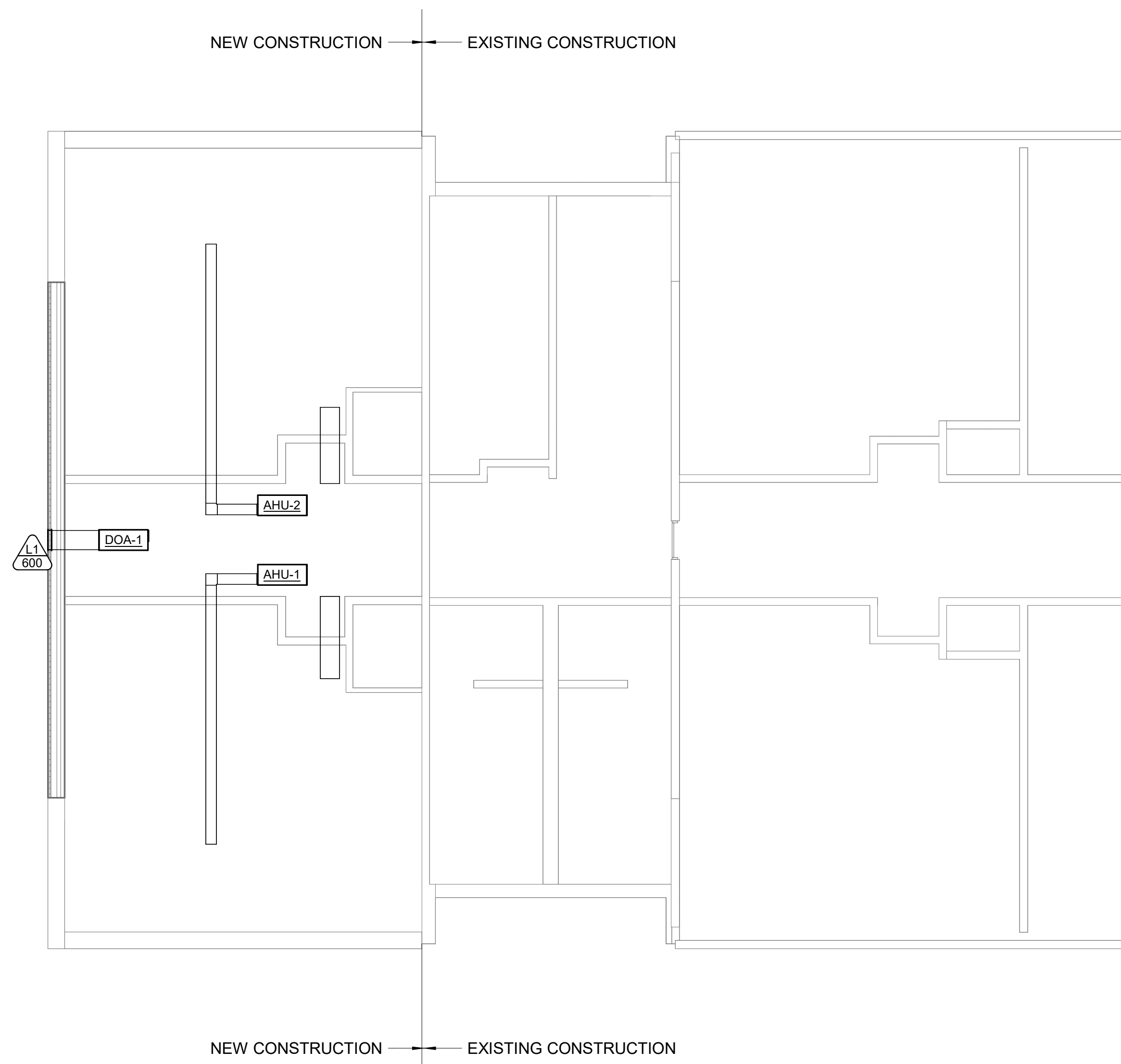


NOTES:  
1. FINAL COLOR SELECTION BY ARCHITECT SELECTION FROM MANUFACTURER STANDARD COLOR OPTIONS.  
2. COORDINATE PENETRATION FRAMING AND ALL FLASHING AND SEALANT WITH GENERAL CONTRACTOR.

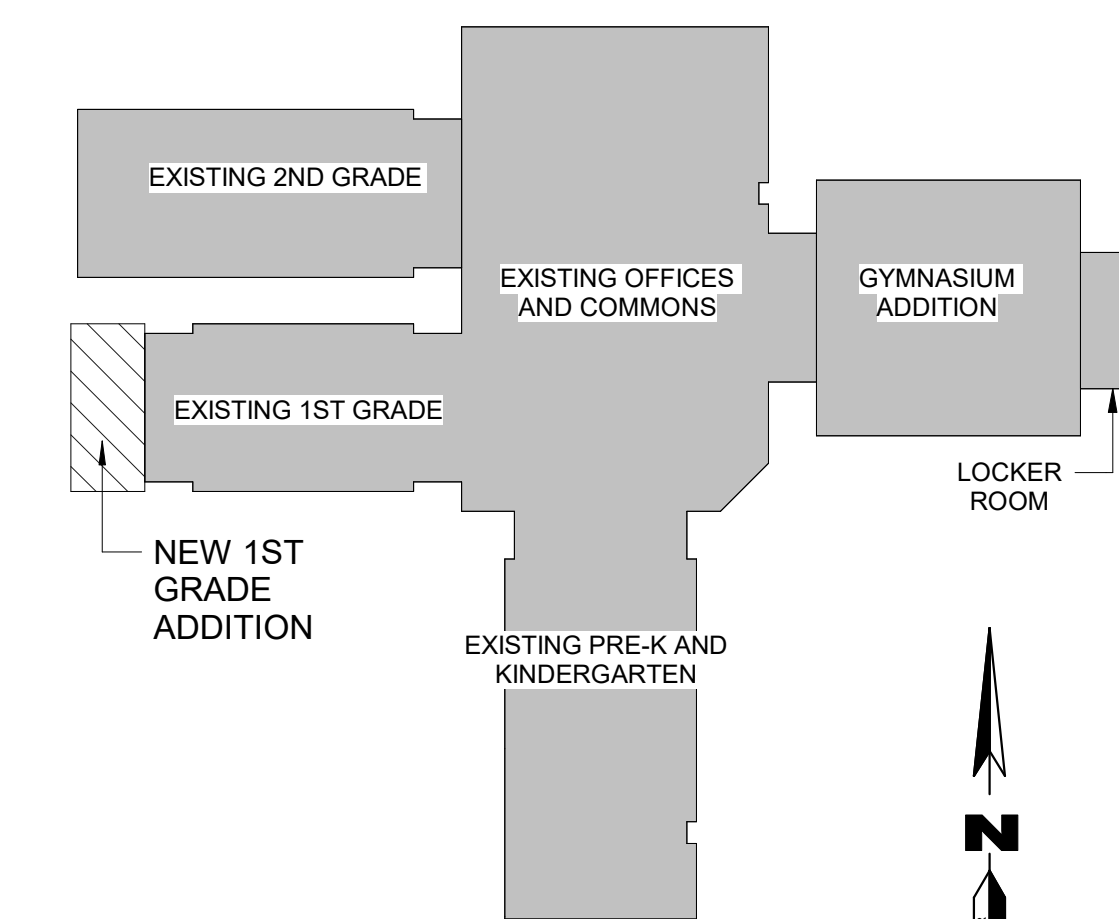
3 LOUVER INSTALLATION DETAIL  
NTS



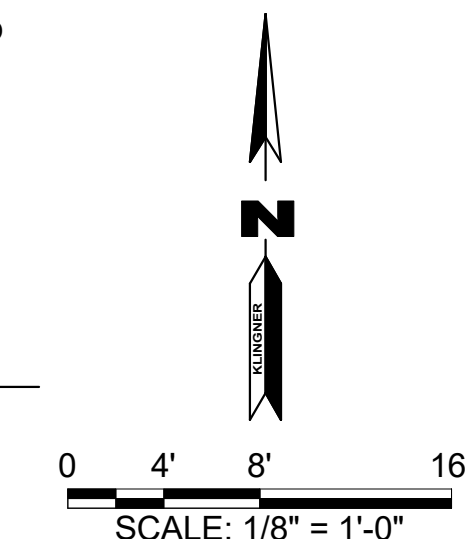
2 AIR HANDLING UNIT HORIZONTAL DUCTED (2-PIPE)  
NTS



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



KEYPLAN



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HALLSVILLE PRIMARY SCHOOL ADDITION  
HALLSVILLE R-IV SCHOOL DISTRICT  
421 EAST HIGHWAY 124  
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 24" x 36"  
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DESIGNED: Designer  
DRAWN: Author  
FIELD: FIELD BOOK

CHECKED: Checker  
CHECK DATE:

SHEET TITLE  
MECHANICAL MEZZANINE PLAN

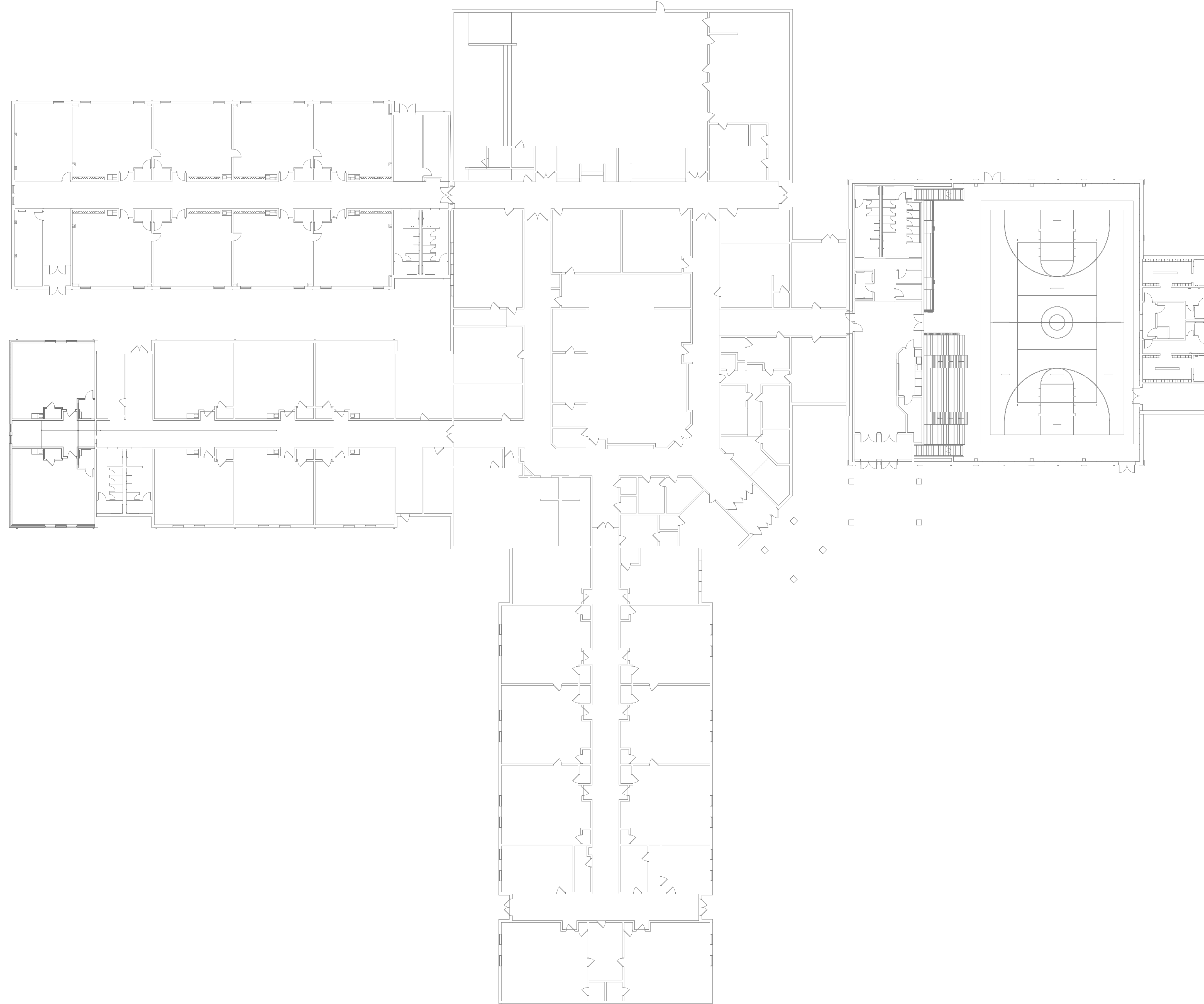
PROJECT NO. 24-5017  
DRAWING ISSUED DATE: 12/05/25  
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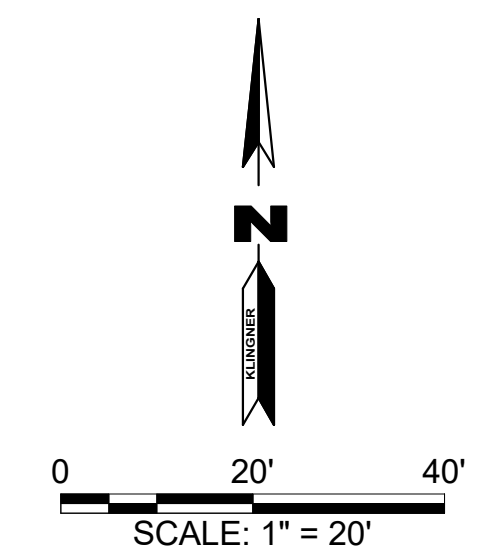
**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
Columbia, Missouri  
3622 Endeavor Ave, Suite 117  
www.klingner.com  
573.355.5988

**COMMENT:**  
 1. KLINGNER WILL SHOW MAIN HYDRONIC SYSTEM PIPING AND LOCATION OF NEW BRANCH ISOLATION VALVES TO BE INSTALLED WHILE SYSTEM IS DRAINED.

KEYNOTE LEGEND	
VALUE	DESCRIPTION



1 BUILDING HYDRONIC PLAN  
 1" = 20'-0"



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SHEET TITLE  
 BUILDING HYDRONIC PLAN

PROJECT NO.  
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M103

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**SEQUENCE OF OPERATION**

**GENERAL OPERATION**

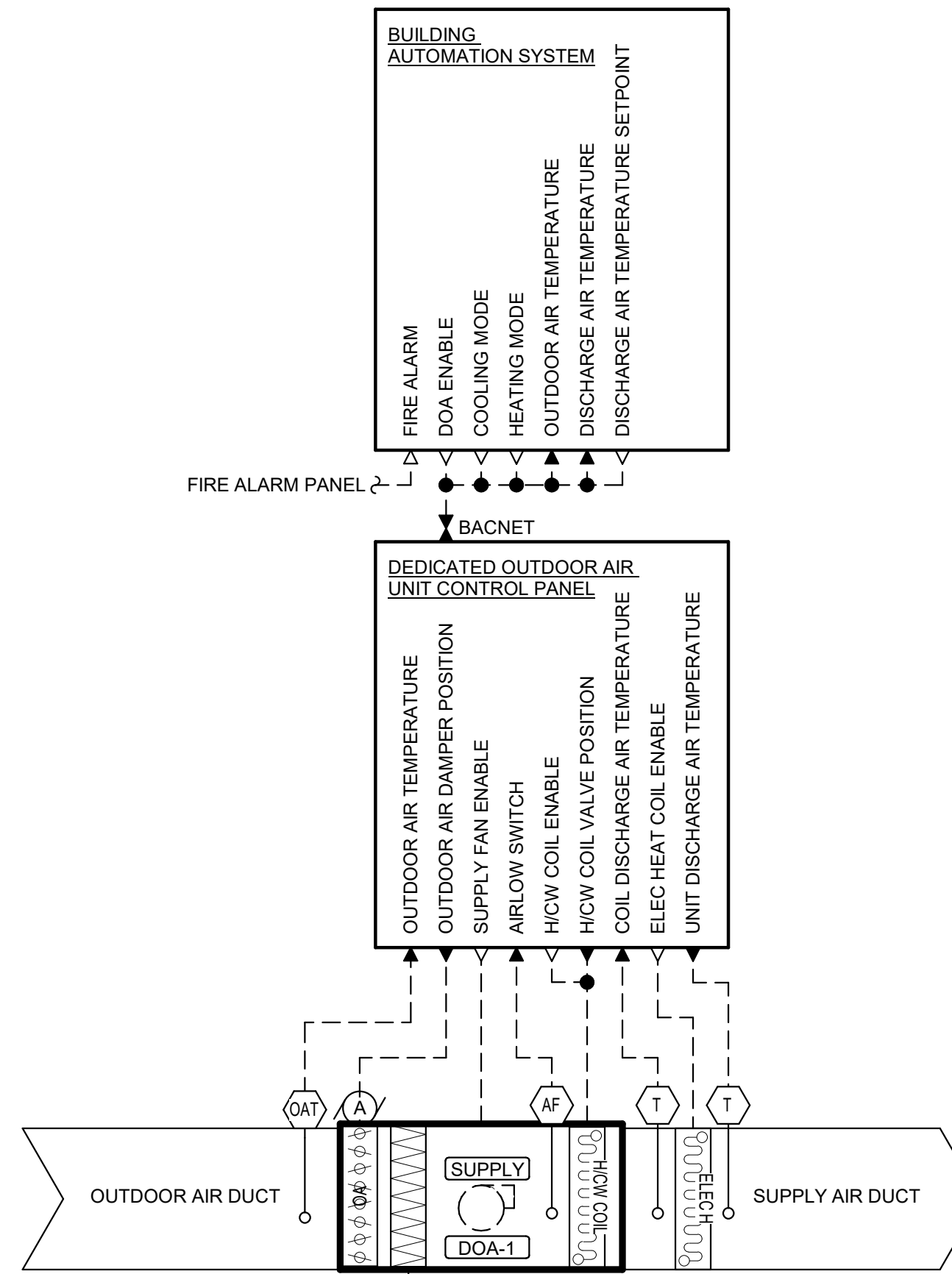
**A. OCCUPANCY MODE:**

1. THE OCCUPANCY MODE (OCCUPIED OR UNOCCUPIED) SHALL BE DETERMINED THROUGH A USER-ADJUSTABLE, GRAPHICAL, SCHEDULING PROGRAM. SCHEDULING PROGRAM SHALL SUPPORT SEVEN-DAY SCHEDULING, CALENDAR SCHEDULING, AND HOLIDAY SCHEDULE OVERRIDE. THE BAS SHALL SUPPORT DIFFERENT OCCUPANCY SCHEDULES FOR EACH ROOM TEMPERATURE SETPOINT.

**B. ROOM TEMPERATURE SETPOINTS**

1. INITIAL OCCUPIED PERIOD ROOM SETPOINTS (REGULARLY SCHEDULED WORK DAYS FROM 7:00 AM- 6:00 PM, MONDAY-FRIDAY)
  - a. COOLING
    1. 72°F (ADJUSTABLE BETWEEN 65°F AND 80°F)
    2. USERS SHALL BE ABLE TO OVERRIDE INDIVIDUAL ROOM SETPOINTS AT THE LOCAL THERMOSTATS. USER SELECTED RANGE SHALL BE LIMITED TO +/-5°F (ADJUSTABLE FROM 0°F-10°F) AND WITHIN THE COOLING SETPOINT RANGE DESCRIBED ABOVE. USER OVERRIDES SHALL RESET FOLLOWING SYSTEM SWITCHOVER TO UN-OCCUPIED CONDITION.
  - b. HEATING
    1. 88°F (ADJUSTABLE BETWEEN 60°F AND 76°F)
    2. USERS SHALL BE ABLE TO OVERRIDE INDIVIDUAL ROOM SETPOINTS AT THE LOCAL THERMOSTATS. USER SELECTED RANGE SHALL BE LIMITED TO +/-5°F (ADJUSTABLE FROM 0°F-10°F) AND WITHIN THE HEATING SETPOINT RANGE DESCRIBED ABOVE. USER OVERRIDES SHALL RESET FOLLOWING SYSTEM SWITCHOVER TO UN-OCCUPIED CONDITION.
2. INITIAL UN-OCCUPIED PERIOD ZONE SETPOINTS (ALL REMAINING TIME THAT IS NOT DEFINED AS OCCUPIED)
  - a. COOLING
    1. 80°F (ADJUSTABLE BETWEEN 65°F AND 80°F)
    2. USERS SHALL BE ABLE TO OVERRIDE INDIVIDUAL ROOM SETPOINTS. USER SELECTED RANGE SHALL BE LIMITED TO +/-5°F (ADJUSTABLE FROM 0°F-10°F) AND WITHIN THE COOLING SETPOINT RANGE DESCRIBED ABOVE. USER OVERRIDES SHALL RESET FOLLOWING SYSTEM SWITCHOVER TO OCCUPIED CONDITION.
  - b. HEATING
    1. 60°F (ADJUSTABLE BETWEEN 60°F AND 75°F)
    2. USERS SHALL BE ABLE TO OVERRIDE INDIVIDUAL ROOM SETPOINTS. USER SELECTED RANGE SHALL BE LIMITED TO +/-5°F (ADJUSTABLE FROM 0°F-10°F) AND WITHIN THE HEATING SETPOINT RANGE DESCRIBED ABOVE. USER OVERRIDES SHALL RESET FOLLOWING SYSTEM SWITCHOVER TO OCCUPIED CONDITION.

C. ALL SETPOINTS INDICATED SHALL BE ADJUSTABLE WITHIN THE BAS SYSTEM.

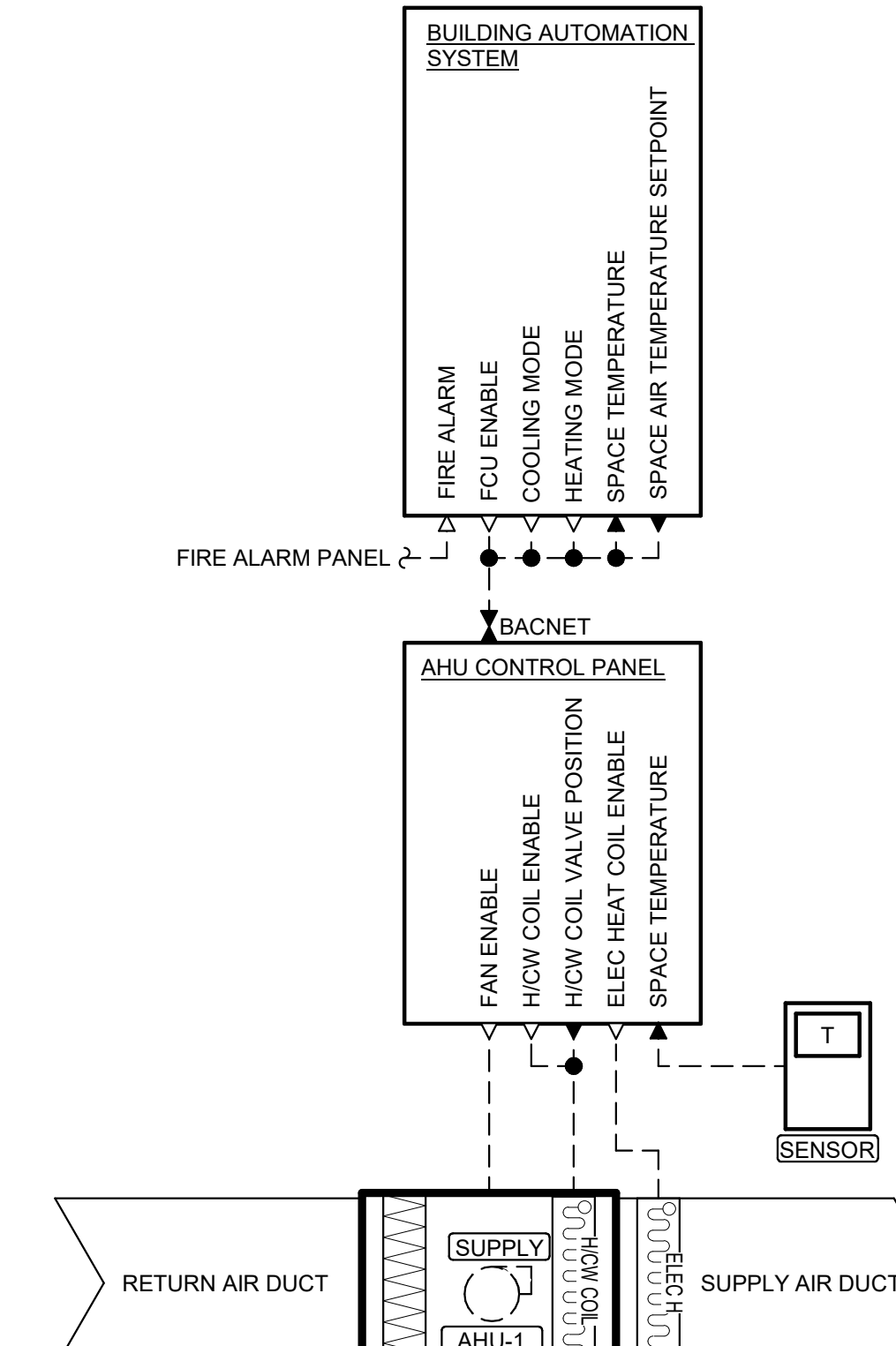


DEDICATED OUTDOOR AIR UNIT CONTROL SUMMARY					
CONTROL POINT	LOCAL CONTROLLER DISPLAY		BAS DISPLAY		COMMENTS
	BAS DISPLAY	BAS ADJUSTABLE	BAS TREND	BAS ALARM	
DOA ENABLE	●	●			
COOLING MODE	●	●			
HEATING MODE	●	●			
OUTDOOR AIR TEMPERATURE	●	●	●		
COIL DISCHARGE AIR TEMPERATURE	●	●	●		
ELECTRIC HEAT ENABLED	●	●			
UNIT DISCHARGE AIR TEMPERATURE	●	●			
UNIT DISCHARGE AIR TEMPERATURE SETPOINT	●	●			

**DEDICATED OUTDOOR AIR UNIT SEQUENCE OF OPERATION**

- A. CENTRAL BAS SYSTEM CONTROL
  1. THE BAS SHALL ENABLE THE DOA AT ALL TIMES.
  2. SAFETY SHUTDOWNS/ALARM GENERATION:
    - a. BUILDING FIRE ALARM ACTIVATION SHALL DISABLE OPERATION OF THE DOA.
- B. LOCAL DOA UNIT CONTROLLER
  1. DOA SHALL OPERATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT PROVIDED BY THE BAS DURING ALL OCCUPIED HOURS. THE BAS SHALL PREVENT THE DOA COIL CONTROL VALVE FROM OPENING IF THE HYDRONIC PLANT IS OPERATING IN THE OPPOSITE MODE FROM THAT BEING CALLED FOR IN THE SPACE SERVED BY THE DOA.
  2. OUTDOOR AIR DAMPER:
    - a. OUTDOOR AIR DAMPER SHALL BE FULLY OPEN DURING ALL OCCUPIED HOURS.
    - b. OUTDOOR AIR DAMPER SHALL BE FULLY CLOSED DURING ALL UNOCCUPIED HOURS.
    - c. OUTDOOR AIR DAMPER SHALL FULLY CLOSE IF THE DOA IS IN A FAULT CONDITION.
  3. DOA OPERATING MODE SHALL AUTOMATICALLY SWITCH BETWEEN HEATING AND COOLING BASED ON THE SPACE TEMPERATURE RELATIONSHIP TO SETPOINT.
  4. IF THE HYDRONIC PLANT IS IN COOLING MODE OR IF THE HYDRONIC PLANT IS IN HEATING MODE AND THE UNIT DISCHARGE AIR TEMPERATURE IS BELOW THE BAS SETPOINT, THE DOA SHALL ENABLE THE ELECTRIC DUCT HEATER
  5. DISCHARGE AIR TEMPERATURE SETPOINTS SHALL BE ADJUSTABLE THROUGH THE BAS.

**DEDICATED OUTDOOR AIR UNIT CONTROLS DIAGRAM**



AIR HANDLING UNIT CONTROL SUMMARY					
CONTROL POINT	LOCAL CONTROLLER DISPLAY		BAS DISPLAY		COMMENTS
	BAS DISPLAY	BAS ADJUSTABLE	BAS TREND	BAS ALARM	
AHU ENABLE	●	●			
SPACE TEMPERATURE	●	●			
SPACE TEMPERATURE SETPOINT	●	●	●		
COOLING MODE	●	●			
HEATING MODE	●	●			
ELECTRIC HEAT ENABLED	●	●			

**AIR HANDLING UNIT SEQUENCE OF OPERATION**

- A. CENTRAL BAS SYSTEM CONTROL
  1. SPACE TEMPERATURE SHALL ENABLE THE AHU AT ALL TIMES.
  2. SAFETY SHUTDOWNS/ALARM GENERATION:
    - a. BUILDING FIRE ALARM ACTIVATION SHALL DISABLE OPERATION OF THE AHU.
    - b. AN AHU GENERAL ALARM SHALL BE GENERATED IF THE SPACE TEMPERATURE IS GREATER THAN +/-5°F (ADJUSTABLE BETWEEN 2°F AND 10°F) FROM SETPOINT FOR MORE THAN FIVE MINUTES (ADJUSTABLE BETWEEN 1 AND 20 MINUTES).
  3. AIR HANDLING UNIT SETPOINTS
    - a. SETPOINTS: AS PROVIDED WITHIN THE GENERAL BAS SYSTEM DESCRIPTION.
- B. AIR HANDLING UNIT CONTROLLER
  1. AHU SHALL OPERATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
    2. AHU OPERATING MODE SHALL AUTOMATICALLY SWITCH BETWEEN HEATING AND COOLING BASED ON THE SPACE TEMPERATURE RELATIONSHIP TO SETPOINT. THE BAS SHALL PREVENT THE AHU COIL CONTROL VALVE FROM OPENING IF THE HYDRONIC PLANT IS OPERATING IN THE OPPOSITE MODE FROM THAT BEING CALLED FOR IN THE SPACE SERVED BY THE AHU.
    3. IF THE HYDRONIC PLANT IS IN COOLING MODE OR IF THE HYDRONIC PLANT IS IN HEATING MODE AND THE SPACE SERVED BY THE AHU IS CALLING FOR HEAT, THE AHU SHALL ENABLE THE ELECTRIC DUCT HEATER.
    4. SPACE TEMPERATURE SETPOINTS SHALL BE CONTROLLED THROUGH THE BAS WITH TEMPORARY OCCUPANT OVERRIDE AT THE LOCAL TEMPERATURE SENSORS.

**AIR HANDLING UNIT CONTROLS DIAGRAM**

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Non-Reduced Sheet Size 24" x 36"  
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SHEET TITLE  
**CONTROLS SEQUENCE OF OPERATION**

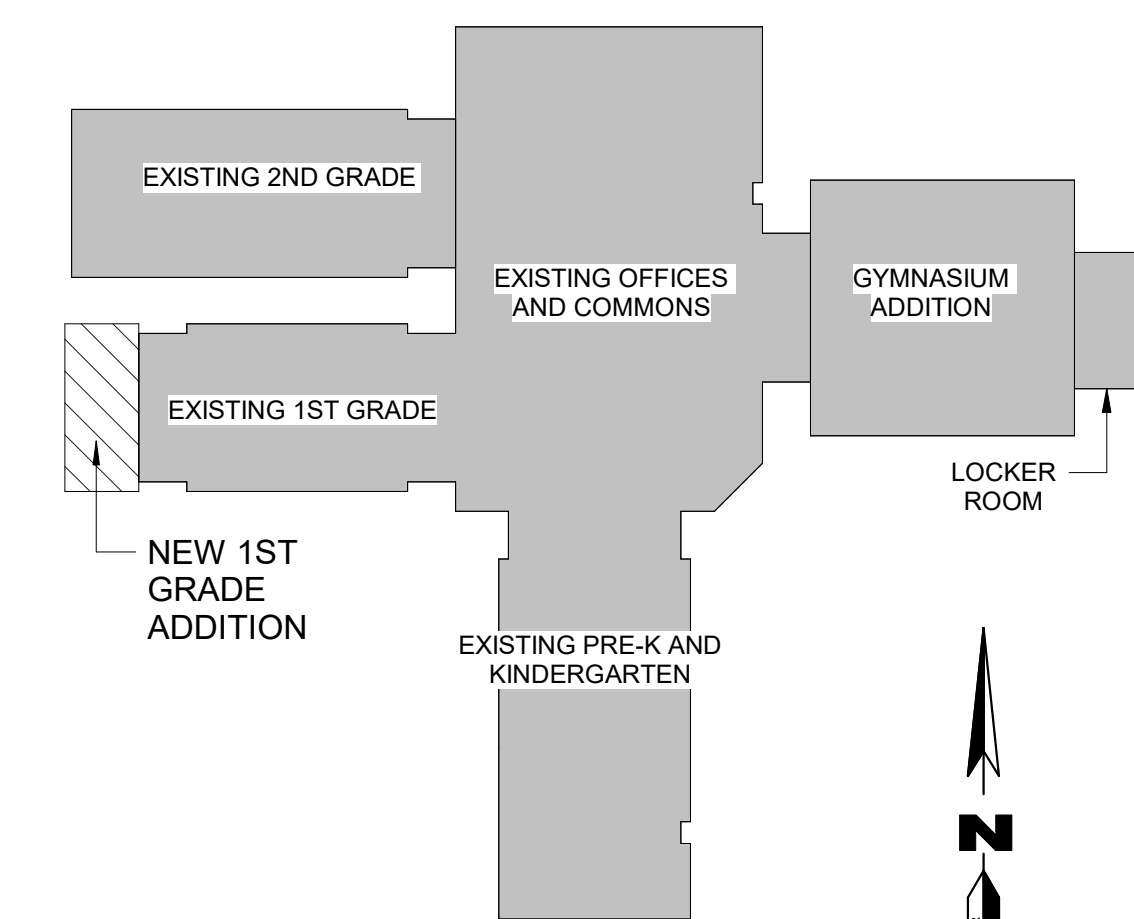
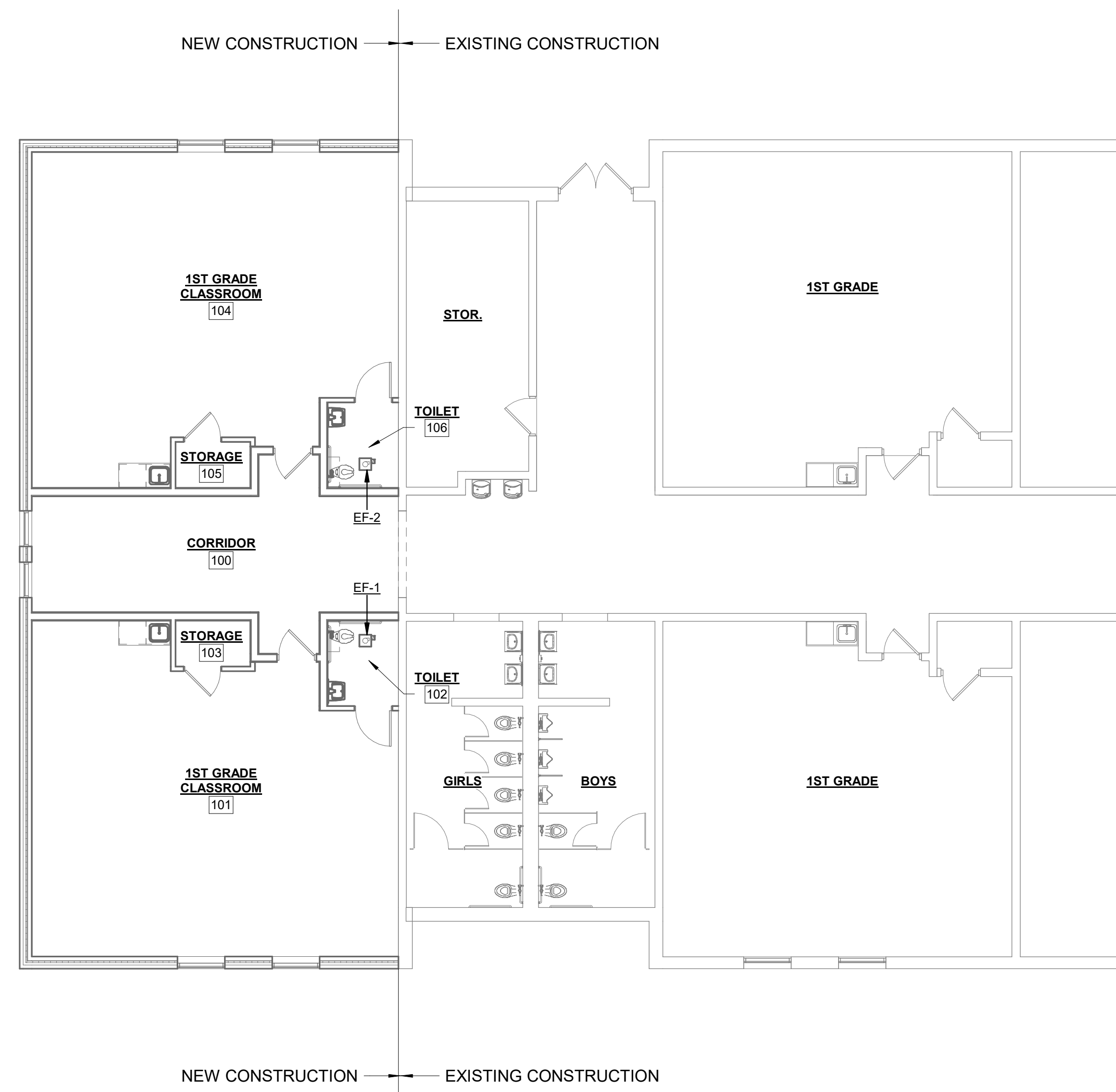
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**24-5017**  
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**12/05/25**  
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**M701**

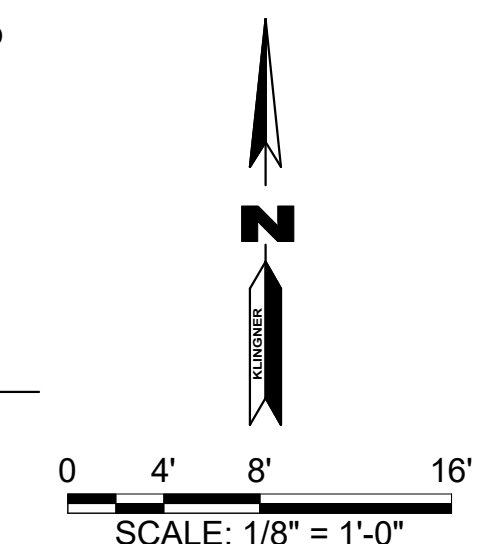
KEYNOTE LEGEND	
VALUE	DESCRIPTION

**QUESTIONS/COMMENTS:**

1. WILL SECURITY CAMERAS NEED TO BE ADDED ANYWHERE IN THE NEW ADDITION?
2. KLINGNER STILL NEEDS TO CONFIRM WHERE POWER WILL BE SUPPLIED FOR AHUs AND DOA.
3. KLINGNER INTENDS TO MATCH THE RECEPTACLE OUTLET ARRANGEMENT IN THE EXISTING CLASSROOMS.



KEYPLAN



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

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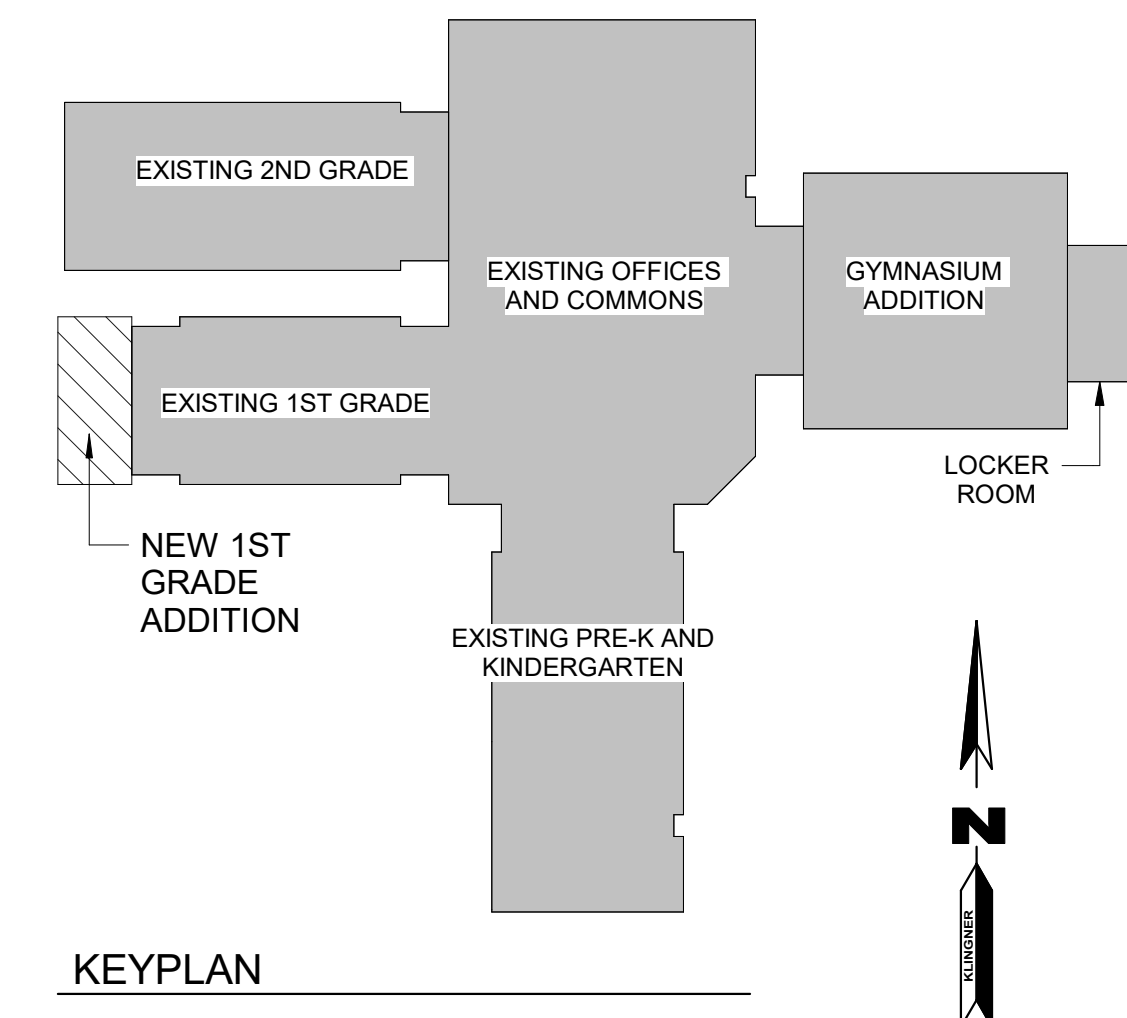
**HALLSVILLE PRIMARY SCHOOL ADDITION**  
**HALLSVILLE R-IV SCHOOL DISTRICT**  
**421 EAST HIGHWAY 124**  
**HALLSVILLE, MO 65255**

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<b>POWER PLAN</b>	
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SHEET	
<b>E101</b>	

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KEYNOTE LEGEND	
VALUE	DESCRIPTION



1 ELECTRICAL MEZZANINE PLAN Copy 1  
 NTS

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**ELECTRICAL MEZZANINE PLAN**

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**E102**

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LIGHT FIXTURE SCHEDULE													
TAG	DESCRIPTION	MOUNT	LENS	COLOR TEMP.	OUTPUT	EMERGENCY FIXTURE	DRIVER CONTROL	VOLT	LOAD	BASIS OF DESIGN			REMARKS
										MANUFACTURER	MODEL	ACCESSORIES	
A1	2X4 ARCHITECTURAL TROFFER	LAY-IN	CURVED, RIBBED	4000 K	3,000 lm	No	ON/OFF	120 V	27 VA	LITHONIA COOPER DAY-BRITE	2BLT4	--	
A2	2X4 ARCHITECTURAL TROFFER	LAY-IN	CURVED, RIBBED	4000 K	3,000 lm	Yes	ON/OFF	120 V	27 VA	LITHONIA COOPER DAY-BRITE	2FG	--	
B1	2X2 ARCHITECTURAL TROFFER	LAY-IN	CURVED, RIBBED	4000 K	3,000 lm	Yes	ON/OFF	120 V	27 VA	LITHONIA COOPER DAY-BRITE	2BLT	--	
										LITHONIA COOPER DAY-BRITE	2FGX	--	

KEYNOTE LEGEND	
VALUE	DESCRIPTION

**COMMENT:**  
 1. KLINGNER INTENDS TO CONNECT NEW CORRIDOR LIGHTING TO THE EXISTING CORRIDOR LIGHTING CIRCUIT AND CONTROLS.

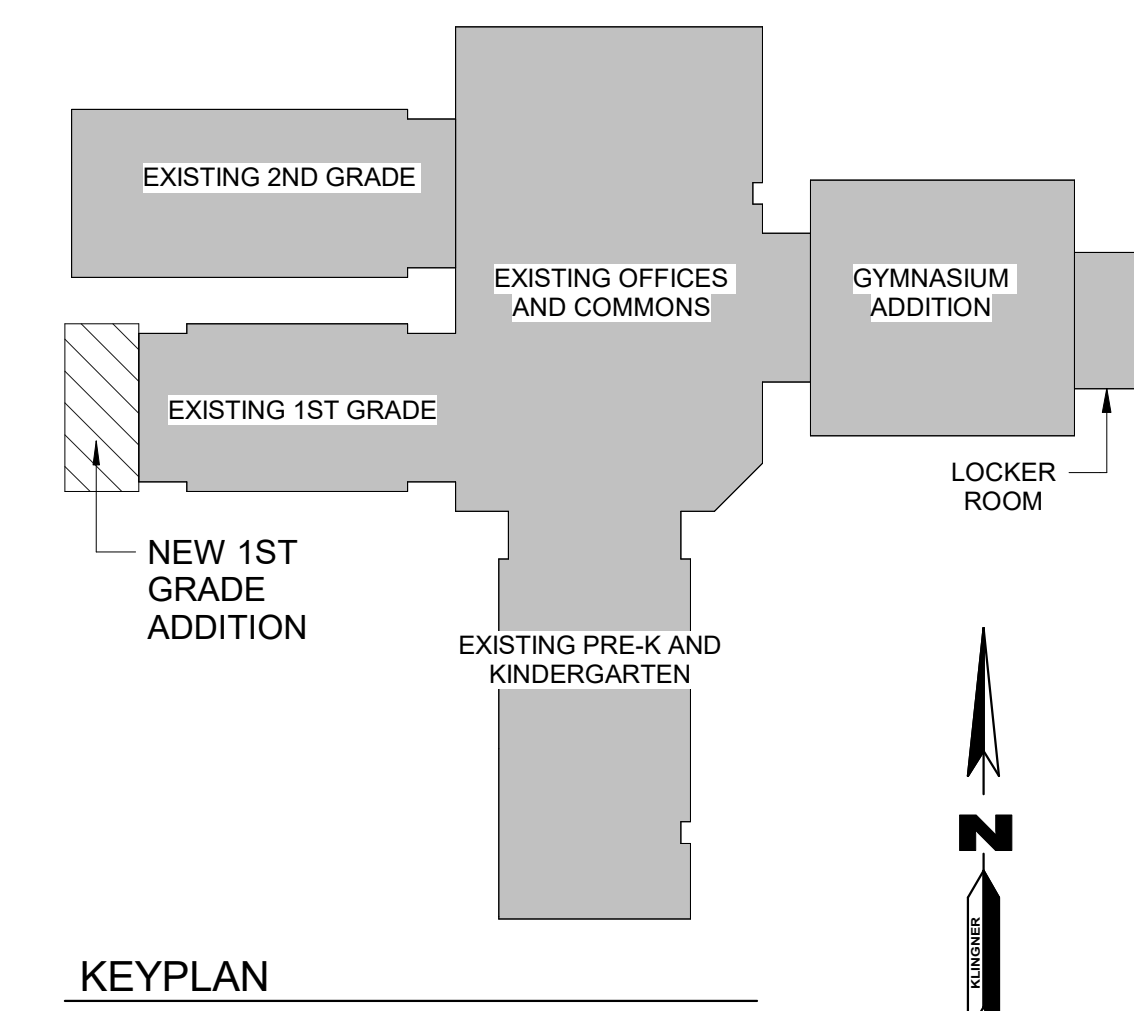
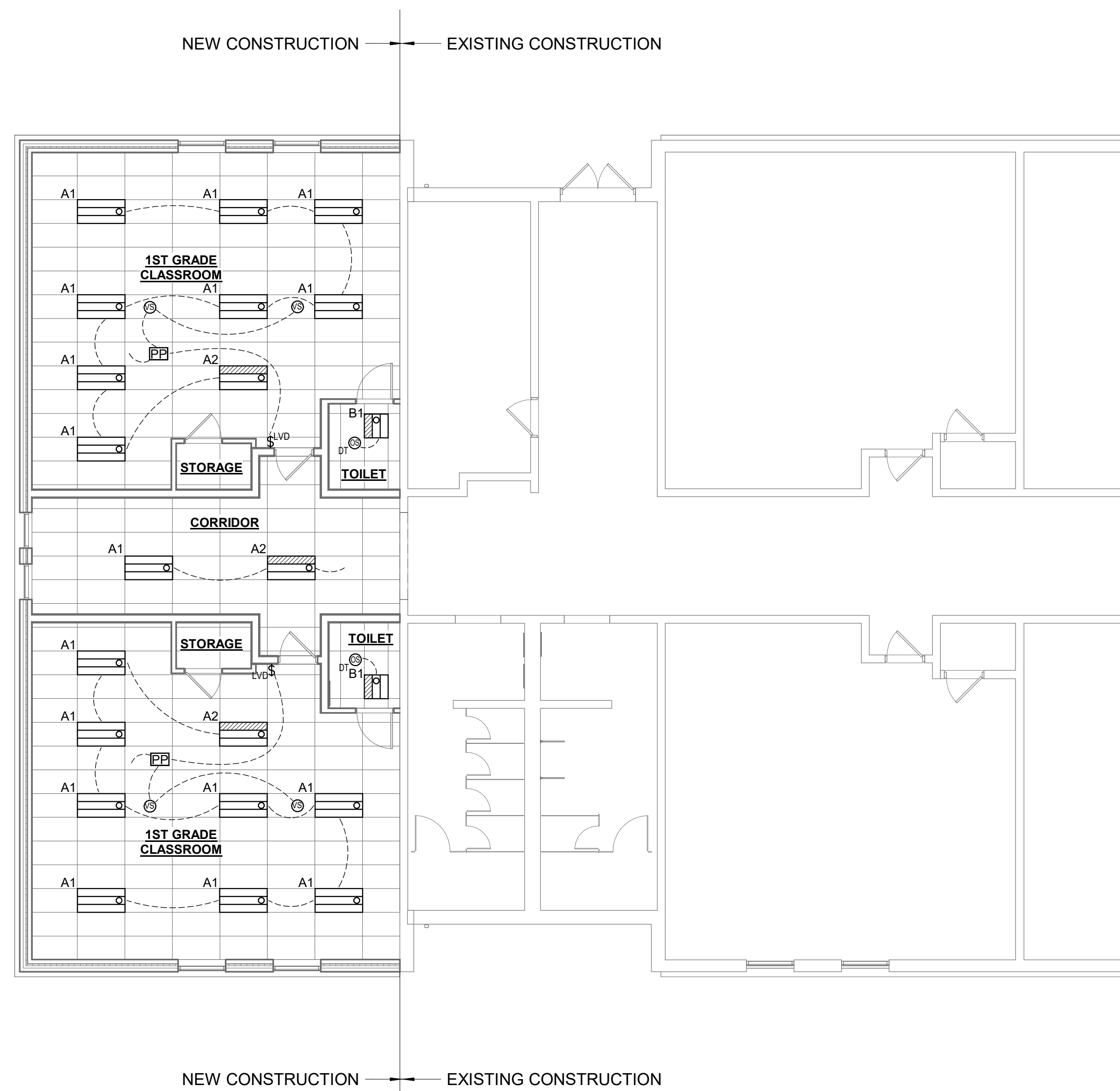
LIGHTING CONTROL MATRIX										
TAG	LINE VOLTAGE	LOW VOLTAGE	MANUAL ON	MANUAL OFF	MANUAL DIMMING	OCC. SENSOR (ON/OFF)	VAC. SENSOR OFF	PHOTOCONTROL (ON/OFF)	PHOTOCONTROL (DIMMING)	TIMELOCK (ON/OFF)
1	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X

**LIGHTING CONTROL SEQUENCES OF OPERATION**

- LOW VOLTAGE, CEILING MOUNT, VACANCY SENSOR CONTROL WITH WALL SWITCH(ES) AND DIMMING:
  - DIMMING SHALL BE CONTROLLED AT THE WALL SWITCH(ES) AND SHALL REMAIN AT SET LEVEL WHEN LIGHTING IS SWITCHED OFF AND THEN BACK ON.
  - AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE AUTOMATICALLY SWITCHED OFF.
  - LIGHTING MAY BE SWITCHED ON OR OFF BY MANUAL PUSHBUTTON(S).
- LOW VOLTAGE, CEILING MOUNT, OCCUPANCY SENSOR CONTROL:
  - UPON DETECTION OF MOTION LIGHTING SHALL BE AUTOMATICALLY SWITCHED ON.
  - AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE AUTOMATICALLY SWITCHED OFF.
- EXTERIOR WALL MOUNT, PHOTOCELL & DIMMING CONTROL:
  - LIGHT FIXTURE SHALL AUTOMATICALLY SWITCHED ON AT 50% OUTPUT BY INTEGRAL, ADJUSTABLE PHOTOCELL.
  - WHEN MOTION IS DETECTED LIGHT FIXTURE SHALL AUTOMATICALLY SWITCH TO 100% OUTPUT.
  - AFTER NO MOTION IS DETECTED FOR 15 MINUTES LIGHT FIXTURE SHALL DIM TO 50% ILLUMINATION.
  - LIGHT FIXTURE SHALL BE AUTOMATICALLY SWITCHED OFF BY INTEGRAL, ADJUSTABLE PHOTOCELL.

**CONTRACTOR NOTES:**

- COORDINATE COMPATIBILITY OF ALL LIGHTING CONTROLS AND LIGHT FIXTURE DRIVERS.
- PROVIDE ALL WIRE, DEVICES, POWER PACKS, SENSORS, ETC. AS NECESSARY TO CREATE A STAND ALONE SYSTEM THAT ACCOMPLISHES THE DESCRIBED SEQUENCE OF OPERATION.
- ALL LIGHTING CONTROLS SHALL BE HARD WIRED (WIRELESS SYSTEMS ARE NOT ACCEPTABLE) ACCEPTABLE CONTROL DEVICE MANUFACTURERS SHALL INCLUDE CRESTRON, ACUITY, WATTSTOPPER, HUBBELL AND LUTRON. SUBSTITUTIONS SHALL BE ALLOWED WITH ENGINEERS PRIOR APPROVAL ONLY.
- WHERE OCCUPANCY AND/OR VACANCY SENSORS ARE SHOWN, PROVIDE SUFFICIENT QUANTITY OF SENSORS TO ENSURE COMPLETE COVERAGE OF THE ENTIRE SPACE.



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

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

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 HALLSVILLE R-IV SCHOOL DISTRICT  
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 HALLSVILLE, MO 65255

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LIGHTING PLAN

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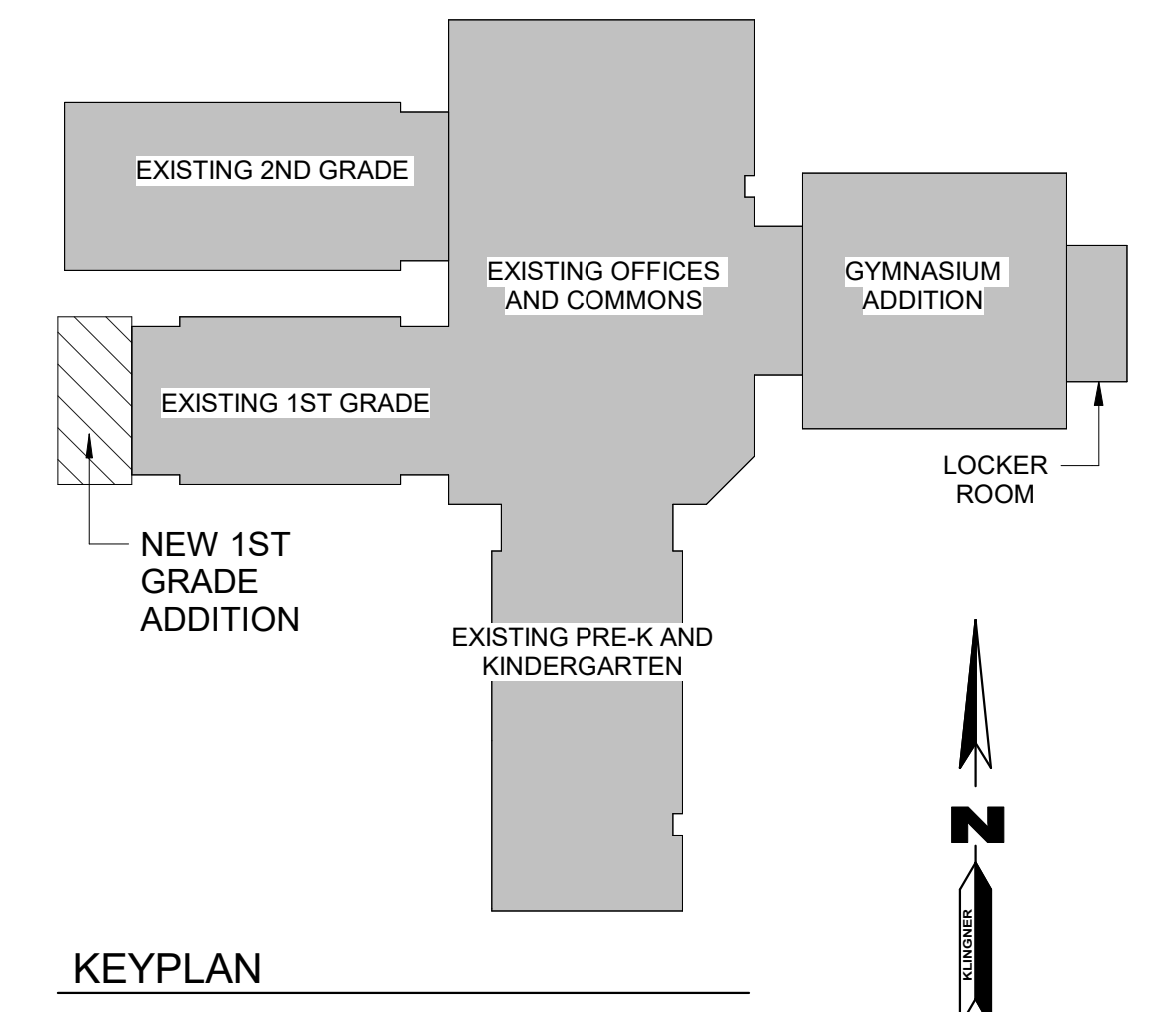
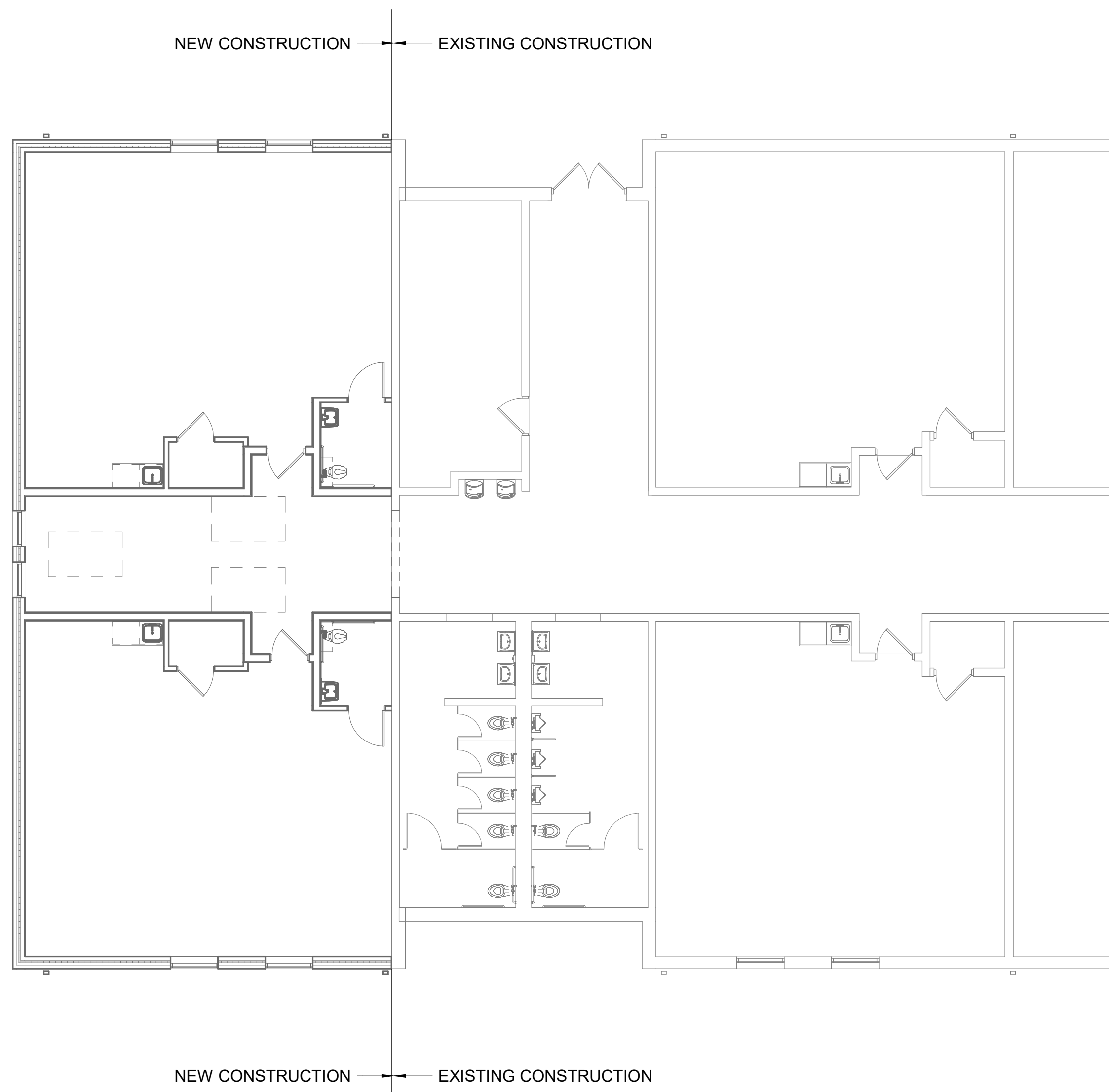
E103

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KEYNOTE LEGEND	
VALUE	DESCRIPTION

**QUESTIONS:**  
 1. CONFIRM LOCATIONS OF DATA OUTLETS.



1 LOW VOLTAGE PLAN  
 1/8" = 1'-0"

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LOW VOLTAGE PLAN	
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SHEET	
E104	

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