## ATHLETIC TRAINING FACILITY WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 62863

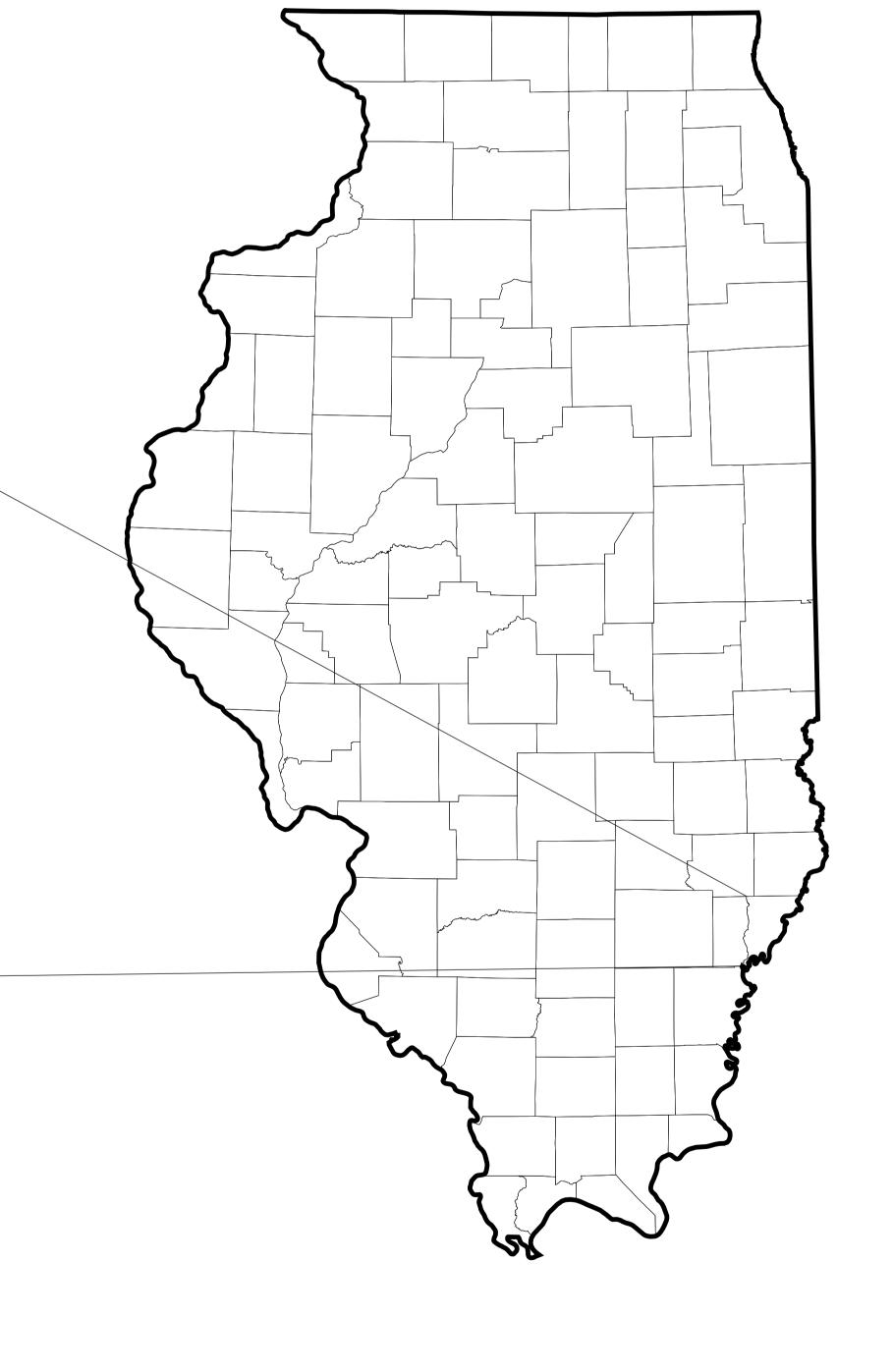


200 N. Market Street Marion, Illinois 62959 618.998.0075 t www.hurst-rosche.com

HILLSBORO, IL EAST ST. LOUIS, IL ARNOLD, MO NASHVILLE, TN SPRINGFIELD, IL

PROJECT LOCATION





### **UTILITY OWNERS**

ELECTRIC/GAS:

MT. CARMEL PUBLIC UTILITY CO. 316 N. MARKET ST, MT. CARMEL,IL,62863 PH: (618) 262-5151

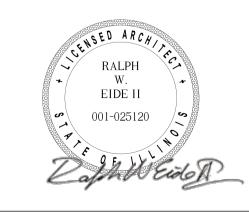
SEWER/WATER:

COMMUNICATIONS:

MOUNT CARMEL PUBLIC WORKS DEPARTMENT 602 E. FIFTH STREET PH:(618) 262-4822 WABASH COMMUNITCATIONS CO-OP

FRONTIER PH: 1-877-6646518

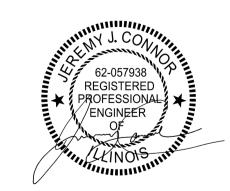
> SPARKLIGHT: PH: 1-844-546-3278



RALPH W. EIDE, AIA.

DATE: 04-23-2024

LICENSE EXPIRES: 11-30-2024



JEREMY CONNOR, P.E.

LICENSE EXPIRES: 11-30-2025



MATTHEW J. KAHN, P.E.

DATE: 04-23-2024

LICENSE EXPIRES: 11-30-2025



ZACH W. CARTER, P.E.

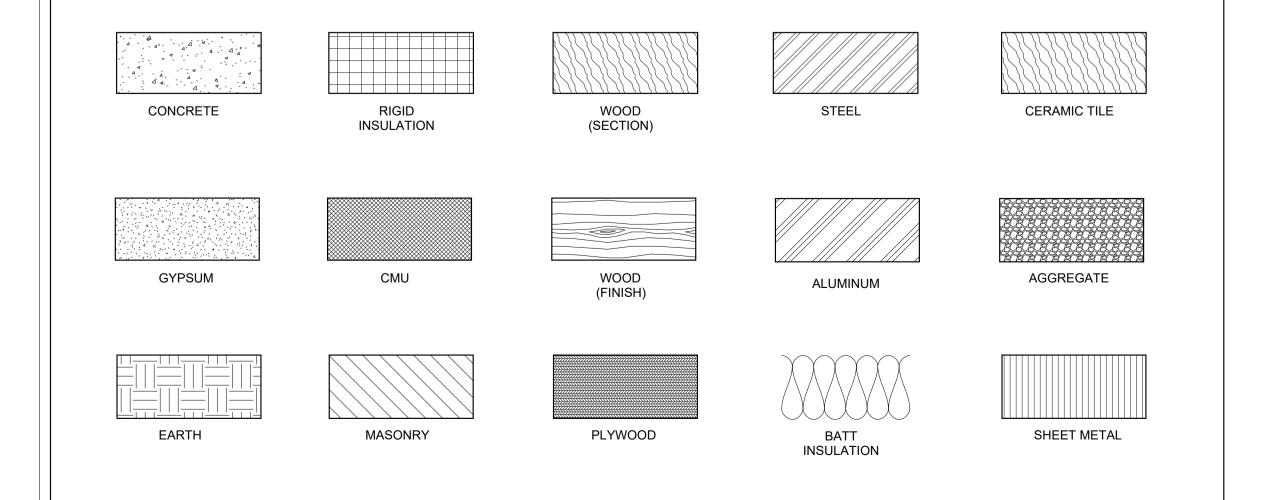
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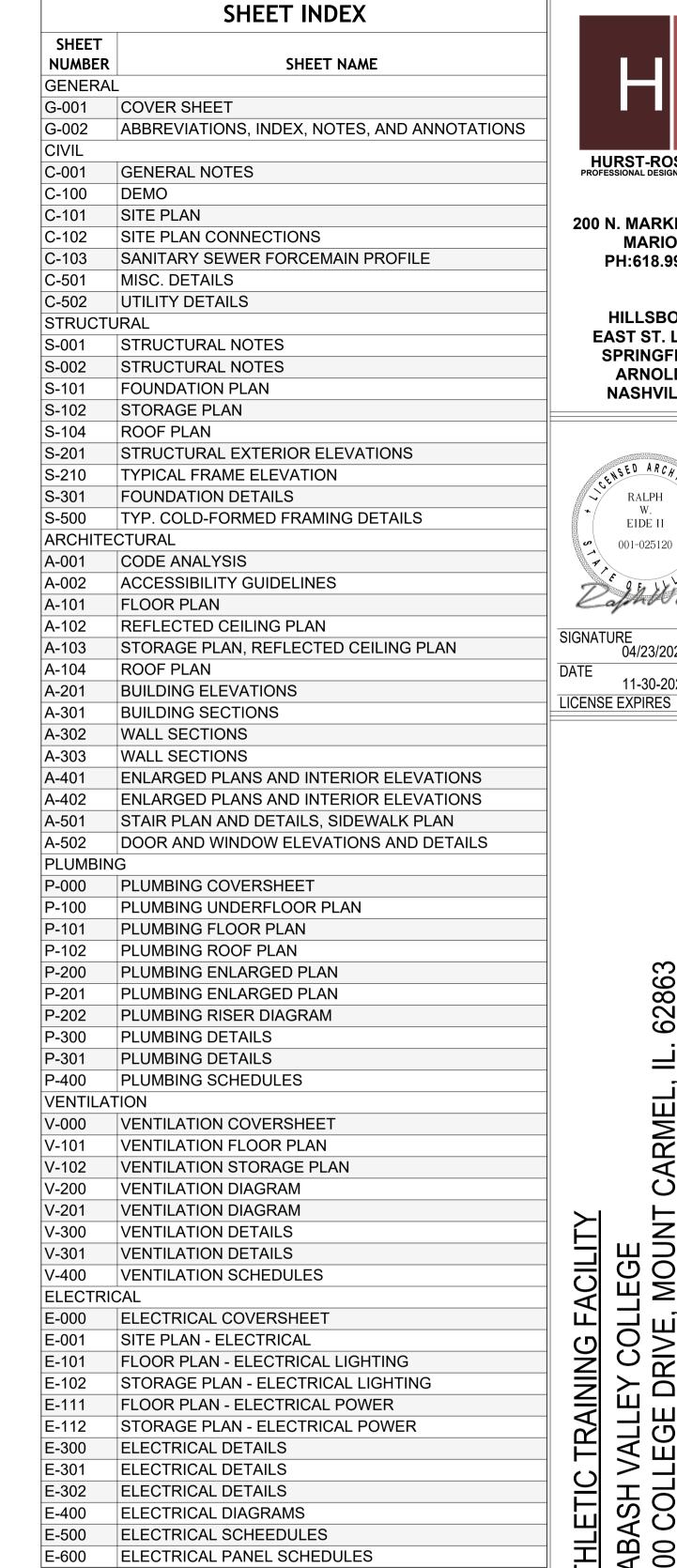
LICENSE EXPIRES: 11-30-2025

395-3272

### **ABBREVIATIONS**

ABV	ABOVE	GA	GAUGE	TB	TILE BASE
ACC ACT	ACCESS ACOUSTICAL CEILING TILE	GFCI GWB	GROUND FAULT CIRCUIT GYPSUM WALL BOARD	T.O TYP	TOP OF TYPICAL
ACU	AIR CONDITIONING UNIT	GYP	GYPSUM WALL BOARD	111	TTFICAL
ADJ	ADJACENT	011	311 30W	UH	UNIT HEATER
ADJT	ADJUSTABLE	HC	HOLLOW CORE	OH	ONIT TIE/TIER
AFF	ABOVE FINISH FLOOR	HM	HOLLOW METAL	VA	VOLT AMPS
AHU	AIR HANDLING UNIT	HP	HORSEPOWER	VB	VAPOR BARRIER
ALT	ALTERNATE, ALTERNATIVE	HORIZ	HORIZONTAL	VTR	VENT THROUGH ROOF
ALUM	ALUMINUM	HSS	STRUCTURAL TUBE		
AMPS	AMPHERES	HT	HEIGHT	WD	WOOD
AUTO	AUTOMATIC	HTG	HEATING	WF	WALL FINISH
		HVAC	HEATING, VENTILATING,	WH-X	WATER HEATER
BD	BOARD		AND AIR CONDITIONING	WP	WATER PROOFING
BLDG	BUILDING	HWS	HOT WATER SUPPLY	W/	WITH
B.O.	BOTTOM OF BRITISH THERMAL UNIT PER	IN	INCH	W/O	WITHOUT
BTUH	HOUR	INS	INSULATE (D), (ION)		
BTWN	BETWEEN	INT	INTERIOR		
DIVVIN	BLIVVLLIN	IINI	MILKIOK		
CASS	CASSETTE	JT	JOINT		
CF	CUBIC FOOT				
CFL	COUNTERFLASHING	KPL	KICKPLATE		
CFS	COLD FORMED STEEL		LENGTH		
CFM CJ	CUBIC FEET PER MINUTE CONTROL JOINT	L LL	LENGTH LIVE LOAD		
CLG	CEILING	LLC	LOCAL LIGHTING		
CMU	CONCRETE MASONRY UNIT	LLO	CONTROLLER		
CO	CLEAN OUT	LT	LIGHT		
COL	COLUMN		2.3		
CONC	CONCRETE	M/MECH	MECHANICAL		
CONST	CONSTRUCTION	MAX	MAXIMUM		
CONT	CONTINUOUS	MBH	1,000 BTU/Hr.		
CONTR	CONTROLLER BOX	MED	MEDIUM		
COTF	CLEAN OUT TO FLOOR	MEZZ.	MEZZANINE		
COTG	CLEAN OUT TO GRADE	MFG	MANUFACTURE (ER)		
COTW	CLEAN OUT TO WALL	MIN	MINIMUM MISCELLANEOUS		
CPT CS	CARPET (ED) COUNTERSINK	MISC MO	MASONRY OPENING		
CSBA	COLOR SELECTED BY	MOV	MOVABLE		
ООВА	ARCHITECT	MP	METAL PANEL		
СТ	CARPET TILE	MT	MOUNT (ED), (ING)		
CU-X	CONDENSER UNIT	MTL	METAL		
CWS	COLD WATER SUPPLY				
		No	NUMBER		
DBL	DOUBLE	NOM	NOMINAL		
DEG	DEGREES  DEMOLISH DEMOLITION	0411	OLITROOP AIR LINIT		
DEMO DIAG	DEMOLISH, DEMOLITION	OAU.	OUTDOOR AIR UNIT		
DIAG	DIAGONAL DIAMETER	O.C. OH	ON CENTER OVERHEAD		
DIM	DIMENSION	OS	OCCUPANCY SENSOR		
DISP.	DISPENSER	OPP	OPPOSITE		
DIV	DIVISION	OWSJ	OPEN WEB STEEL JOIST		
DR	DOOR				
DS	DOWNSPOUT				
DT	DRAINTILE	PEMB	PRE-ENGINEERED METAL		
DWG	DRAWING	D.E.	BUILDING		
	EMEDOENOVI IOUT	PP DC	POWER PACK		
EL	EMERGENCY LIGHT	PS DT	PULL SWITCH		
ELEC	ELECTRIC (AL)	PT	PAINT (ED)		
ERV	EMERGENCY RECOVERY VENTILATION	RB	RUBBER BASE		
EXG	EXISTING	RB RF	RUBBER FLOORING		
LAU	LAGINO	RM	ROOM		
F	DEGREES FAHRENHEIT	RO	ROUGH OPENING		
FA	FIRE ALARM	RR	RESTROOM		
FACP	FIRE ALARM CONTROL PANEL	RTU	ROOF TOP UNIT		
FC	FAN COIL				
FD	FLOOR DRAIN	SHT	SHEET		
F.F.	FINISHED FLOOR	SIM	SIMILAR		
FDN	FOUNDATION	SL.	SEALER		
FP	FIREPROOF	SS	STAINLESS STEEL		
FR	FRAME	STS	STANDING SEAM		
FT FTG	FEET FOOTING	STL STO.	STEEL STORAGE		
FIG	LOOTING	STO. STR	STRUCTURE		
		OIIV	STRUCTURE		

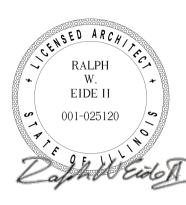






200 N. MARKET STREET MARION, IL PH:618.998.0075

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SIGNATURE 04/23/2024 11-30-2024

> 62863 ARMEL, COLLE( WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

ABBREVIATIONS, INDEX, NOTES, AND **ANNOTATIONS** 

### GENERAL NOTES:

- 1. EXISTING SITE IMPROVEMENTS DISTURBED OUTSIDE THE DESIGNATED CONSTRUCTION AREAS ARE TO REPLACED WITH EQUAL OR BETTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR. EVERY EFFORT SHALL BE MADE TO MINIMIZE SUCH DISTURBANCES. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO EXISTING CONSTRUCTION AND UTILITIES TO REMAIN AND SHALL REPAIR DAMAGE CAUSED BY THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. DAMAGE RESULTING FROM IMPROPER MAINTENANCE OF DRAINAGE SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. COST OF MAINTAINING FLOWS IS INCIDENTAL TO THE CONTRACT.
- 3. THE CONTRACTOR SHALL TAKE NOTE OF <u>ALL</u> EXISTING CONDITIONS AND BE PREPARED TO MOVE OR DISPOSE OF OBJECTS OR MATERIALS WITHIN THE LIMITS OF THE PROJECT. SUCH WORK SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW DIMENSIONS WITH FIELD CONDITIONS PRIOR TO BIDDING, FABRICATION AND CONSTRUCTION AND MAKE MINOR ADJUSTMENTS AS NECESSARY AND NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE OUTCOME OF THE WORK.
- 5. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, ENGINEER, AND OTHER TRADES THROUGHOUT THE PROJECT.
- 6. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND IDOT SUPPLEMENT TO THE NATIONAL MUTCD AS DETERMINED BY THE ENGINEER. ACCESS TO PROPERTIES AND ENTRANCES SHALL BE PROVIDED BY THE CONTRACTOR AT ALL TIMES AND COORDINATED WITH THE OWNER, INCLUDING ANY INTERRUPTION OF ACCESS TO THE SITE.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION PRIOR TO ANY WORK AND MAINTENANCE THROUGHOUT THE PROJECT OF ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES AND MODEL BEST MANAGEMENT PRACTICES (BMP) FOR LAND DISTURBANCE. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION OF THE SOIL EXPOSED BY DISTURBANCE DUE TO HIS/HER OPERATIONS. THE CONTRACTOR SHALL CONSTRUCT SAID EROSION CONTROL MEASURES IN ACCORDANCE WITH ARTICLES 280.01 TO 280.05 OF THE IDOT STANDARD SPECIFICATIONS, PER IEPA STANDARDS AND SPECIFICATIONS, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY ALL LOCAL GOVERNING AGENCIES, IEPA, IDOT AND/OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL MEASURES AND REPAIR OF ANY ERODED AREAS AFTER PROJECT ACCEPTANCE AND VEGETATION IN ALL LAWN DISTURBED AREAS HAS BEEN ESTABLISHED. NO ADDITIONAL COMPENSATION IS ALLOWED FOR TEMPORARY EROSION CONTROL. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOPED DURING CONSTRUCTION THAT WERE UNFORESEEN DURING THE DESIGN STAGE OR, THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.
- 8. ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, ILLINOIS EASTERN COMMUNITY COLLEGES, IEPA, AWWA, ASTM, IDOT, THE NATIONAL MUTCD, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- 9. NO WORK SHALL OCCUR ON THE SITE UNTIL ALL NECESSARY PERMITS ARE SECURED WITH ALL LOCAL GOVERNING AGENCIES. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONING BEFORE ANY PERMIT WILL BE ISSUED. PERMITS AND LICENSES NECESSARY FOR THE PROCESSION OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- 10. ALL DISTURBED AREAS AND LAWN AREA, EXCLUDING PAVED AND BUILDING AREAS, SHALL BE GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED WITHIN 7 DAYS FROM THE COMPLETION OF GRADING OPERATIONS OR SUSPENSION OF WORK AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE IDOT STANDARD SPECIFICATIONS, IEPA STANDARDS AND SPECIFICATIONS, AND PROJECT SPECIFICATIONS. SEEDING SHALL BE CLASS I LAWN MIXTURE.
- 11. MANHOLES AND STRUCTURES SHALL BE CONSTRUCTED OF CAST—IN—PLACE OR PRE—CAST CONCRETE. SHOP DRAWING SHALL BE REQUIRED FOR ALL NONSTANDARD CONCRETE STRUCTURES.
- 12. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE CONTROL POINTS SHOWN HEREIN. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 13. HOT MIX BITUMINOUS MATERIALS SHALL NOT BE PLACED ON EXISTING BITUMINOUS/CONCRETE SURFACES OR ON AGGREGATE BASES WITHOUT THE APPLICATION OF BITUMINOUS MATERIALS PRIME COAT.
- 14. ALL TEMPORARY AGGREGATE PLACED BY THE CONTRACTOR SHALL BE REMOVED, GRADED, SEEDED, FERTILIZED, MULCHED AND STRAWED AT THE COMPLETION OF THE CONTRACT AS DIRECTED BY THE ENGINEER.
- 15. STORE TOPSOIL ONSITE AT AN APPROVED LOCATION AS DIRECTED BY THE ENGINEER AND OWNER. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER. ANY EXCAVATED MATERIAL THAT IS APPROVED TO BE STORED ON SITE SHALL BE TRANSPORTED TO THE STORAGE SITE BY THE CONTRACTOR AND SHALL BE PROTECTED AND STABILIZED BY SEEDING OR OTHER APPROVED METHODS TO PREVENT EROSION AND SEDIMENT RUNOFF.
- 16. ANY PROPERTY CORNERS OR OTHER PERMANENT SURVEY CONTROL MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE VERIFIED AND/OR RESET AT THE CONCLUSION OF THE PROJECT CONSTRUCTION BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ILLINOIS AND EMPLOYED BY THE CONTRACTOR. WRITTEN VERIFICATION SHALL BE PROVIDED TO THE OWNER, THROUGH THE ENGINEER, THAT ALL SAID EXISTING PROPERTY CORNERS AND/OR PERMANENT SURVEY CONTROL MONUMENTS SHOWN IN THE CONSTRUCTION PLANS HAVE BEEN
- 17. RIGHT-OF-WAYS, PROPERTY LINES AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FORM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
- 18. THE CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF PARCEL OWNERS ACCESS WITH THEIR PARCEL (I.E. INSTALLATION OF UTILITIES ACROSS DRIVEWAYS, ETC.) WITH THAT RESPECTIVE PARCEL OWNER PRIOR TO CONSTRUCTION AND INSTALLATION OF THE UTILITIES.
- 19. THE ACTUAL LOCATION OF THE WATERMAIN TAPPING SLEEVES AND VALVES WILL BE FIELD LOCATED BY CONTRACTOR AND COORDINATED WITH THE OWNER AND ENGINEER. CONTRACTOR TO FIELD LOCATE THE EXISTING WATERMAIN AND CONNECT THE PROPOSED WATERMAIN TO SAID EXISTING WATERMAIN.
- 20. PRESERVE EXISTING TREES, WOODLANDS AND UNDERSTORY OUTSIDE THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL BE VERY CONSCIENCE ABOUT ADJACENT TREE REMOVAL TO CONSTRUCTION AREAS. CONTRACTOR SHALL ONLY REMOVE THE MINIMUM AMOUNT OF NECESSARY TRESS TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH THE OWNER TO DETERMINE THE TREES THE OWNER WOULD LIKE REMOVED AND THE TREES THE OWNER WOULD LIKE TO PRESERVE.
- 21. ANY REFERENCE TO AN IDOT STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED.
- 22. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UNDERGROUND UTILITIES INCLUDING WATER, GAS, ELECTRIC, STORM SEWER, TELEPHONE AND CABLE TV LOCATED AND SUITABLY MARKED. SHOULD A UTILITY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED AT ONCE. SHOULD A UTILITY BE LOCATED PARALLEL TO THE PROPOSED PIPELINE AND WITHIN THE MAXIMUM TRENCH WIDTH AS DEFINED IN THE STANDARD SPECIFICATIONS, OR IN DIRECT GRADE CONFLICT WITH THE GRADE OF THE PROPOSED PIPE, ARRANGEMENTS SHALL BE MADE FOR THE UTILITY TO BE PROTECTION IS NOT FEASIBLE, TO ARRANGE FOR THE UTILITY TO BE RELOCATED. SHOULD THE PROPOSED ALIGNMENT BE ALTERED IN THE FIELD, THE CONTRACTOR SHALL BE PAID FOR THE QUANTITIES OF WORK PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND NO ADDITIONAL PAYMENT SHALL BE MADE. SHOULD A UTILITY OUTSIDE OF THE TRENCH WIDTH AND NOT IN DIRECT CONFLICT BE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT IT OR HAVE IT RELOCATED AT HIS/HER OWN EXPENSE. LIKEWISE OTHER LINES SHALL BE PROTECTED AT NO ADDITIONAL EXPENSE TO THE OWNER AND WITHOUT CLAIM BY THE CONTRACTOR FOR DELAYS DUE TO SERVICE LINES ENCOUNTERED.
- 23. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
- 24. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES SEVEN (7) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. SOME, BUT NOT ALL, OF THE UTILITIES OF THIS PROJECT CAN BE CONTACTED PRIOR TO CONSTRUCTION BY CALLING THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS (JULIE), PHONE (800) 892-0123.
- 25. AFTER THE TRENCH HAS BEEN BACKFILLED, THE GROUND WILL BE RETURNED TO EXISTING OR PROPOSED GRADE AND NO EXCESS EXCAVATED MATERIAL WILL BE SPREAD IN THIS AREA.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING EXISTING FENCES, DRIVEWAYS, ETC. DAMAGED OR REMOVED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. ALL TREES SHALL BE PROTECTED BY THE CONTRACTOR UNLESS THE TREES LIE DIRECTLY IN THE PATH OF THE PROPOSED FACILITIES.
- 27. THE CONTRACTOR HAS NO AUTHORITY TO PERMIT THE USE OF ANY PORTION OF THE SITE BY ANYONE EXCEPT FOR BUSINESS CONNECTED WITH THE CONSTRUCTION IN WHICH THIS CONTRACT IS CONCERNED.
- 28. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION FAR ENOUGH IN ADVANCE OF THE WORK TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SO THAT CORRECTIONS IN PROPOSED PIPE GRADE AND ALIGNMENT CAN BE MADE WITHOUT REMOVING PIPE ALREADY INSTALLED AND IN PLACE. ANY CORRECTION REQUIRED TO PIPE OR FACILITIES ALREADY INSTALLED DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXISTING UTILITIES AND OBSTRUCTIONS SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL CONTRACT COST.
- 29. SHORT TUNNELS MAY BE REQUIRED BY THE ENGINEER AT SOME LOCATIONS WHILE CONSTRUCTING THE PROPOSED PIPELINES IN ORDER TO SAVE OBSTRUCTIONS SUCH AS TREES OR EXISTING PIPES WHICH ARE IN THE TRENCH WIDTH. THE COST OF SHORT TUNNELS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.
- 30. ANY DAMAGE TO EXISTING ROAD SURFACES BY CONTRACTOR'S EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, AND THE REPAIR SHALL BE ACCEPTABLE TO THE OWNER. COST OF SUCH REPAIR OUTSIDE OF TRENCH WIDTH PAY LIMITS SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.
- 31. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT CAUSE SEWAGE TO BE DISCHARGED ON THE GROUND, IN WATERWAYS OR INTO THE GROUND, NOR SHALL HE/SHE CAUSE BACKUP OF SEWAGE INTO BUILDINGS. DIVERT SEWAGE BY PUMPING AND/OR PIPING AROUND ANY PORTIONS OF THE SEWAGE SYSTEM WHICH ARE TAKEN OUT OF SERVICE.
- 32. REMOVING AND RE-INSTALLING EXISTING FENCES AND MAILBOXES TO CONSTRUCT THIS PROJECT SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.

### SITE GRADING NOTES:

- 1. CONTRACTOR SHALL NOTIFY THE OWNER AND ALL LOCAL GOVERNING AGENCIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 2. CONTRACTOR TO PROVIDE ADEQUATE OFF—STREET PARKING FOR CONSTRUCTION EMPLOYEES. PARKING ON NON—SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
- 3. CONTRACTOR SHALL KEEP ALL PAVEMENT SURFACES CLEAR OF MUD AND DEBRIS. ALL PAVEMENT SURFACES USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
- 4. EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY WORK AND BE MAINTAINED THROUGHOUT THE PROJECT TO PREVENT DAMAGE OF OFFSITE PROPERTIES UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY, PAVEMENT SURFACE HAS BEEN INSTALLED AND ADEQUATE VEGETATIVE GROWTH IN ALL DISTURBED AREAS HAS BEEN ESTABLISHED AND INSURES NO FURTHER EROSION OF THE SOIL. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY ALL LOCAL GOVERNING AGENCIES, IEPA, IDOT, ENGINEER AND/OR OWNER.
- 5. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- 6. WHEN WORK OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 7 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ONSITE. PROTECTIVE MEASURES MAY BE REQUIRED BY ALL LOCAL GOVERNING AGENCIES, IEPA AND/OR IDOT SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
- 7. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
- 8. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 4:1 (H:V) SLOPES SHALL BE MULCHED BY CONSTRUCTING EROSION CONTROL BLANKET IN ACCORDANCE WITH SECTION 251 OF THE IDOT STANDARD SPECIFICATIONS AND IEPA STANDARDS AND SPECIFICATIONS. THE EROSION CONTROL BLANKET SHALL BE EXCELSIOR BLANKET.
- 9. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY OR PUBLIC OR PRIVATE STREET FROM SETTLING, CRACKING OR OTHER DAMAGE.
- 10. STORM WATER STRUCTURES, PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES IS REQUIRED.
- 11. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE OR 12", WHICHEVER IS LESS.
- 12. STRAW BALES SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY STORM EVENT FOR DAMAGE, DETERIORATION AND THE AMOUNT OF SEDIMENT THAT HAS ACCUMULATED. BALES THAT HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE BALES OR 12", WHICHEVER IS LESS.
- 13. ALL TRASH AND DEBRIS ONSITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ONSITE BUILDING OR STRUCTURE THAT IS SCHEDULED TO BE REMOVED FOR THIS PROJECT MUST BE PROPERLY DISPOSED OF OFFSITE. EXCESS, SURPLUS, UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS RESULTING FROM CONSTRUCTION OF THIS PROJECT, INCLUDING THOSE RESULTING FROM REMOVAL OF EXISTING SIDEWALKS, PAVEMENTS, BUILDINGS AND/OR STRUCTURES, SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS/HER OWN EXPENSE IN A LEGAL MANNER, OUTSIDE THE SUBJECT PROPERTY IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. COORDINATE WITH THE OWNER.
- 14. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 4:1 SLOPE (25%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
- 15. CONTRACTOR TO INSTALL ALL PROPOSED IMPROVEMENTS TO MATCH ALL EXISTING GRADES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL GRADE AND PREPARE ALL SUBGRADES TO WITHIN 0.1 FEET, MORE OR LESS, OF PLAN GRADE.
- 16. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDINGS AT A MINIMUM SLOPE OF 1%, UNLESS OTHERWISE NOTED. ALL ONSITE STORMWATER FLOWS SHALL BE DIRECTED AND POSITIVELY DRAINED TO PROPOSED AND/OR EXISTING STORM FACILITIES, STRUCTURES, SWALES OR OFFSITE. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINTS. PONDING OF STORMWATER WILL NOT BE PERMITTED DURING OR AFTER CONSTRUCTION.
- 17. ALL PAVEMENT (CONCRETE AND ASPHALT), SIDEWALK, HANDICAP RAMP, AND ALL APPURTENANCES CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, ILLINOIS EASTERN COMMUNITY COLLEGES, IEPA, IDOT, AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG).
- 18. CONTRACTOR TO HAVE A SOILS ENGINEER VERIFY THAT ALL COMPRESSIBLE MATERIAL HAS BEEN REMOVED PRIOR TO PLACEMENT OF FILL, AND THAT ALL FILL UNDER SANITARY AND STORM SEWER AND OTHER UTILITY LINES CONSTRUCTED ABOVE GRADE HAS BEEN COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698. FILL IS TO BE PLACED IN MAXIMUM 6" LIFTS. TESTS SHALL BE TAKEN AT A MAXIMUM OF 50' INTERVALS ALONG THE ROUTE OF THE PIPE IN FILL AREAS. TEST SHALL BE TAKEN AT 2' INTERVALS VERTICALLY STARTING AT THE BOTTOM OF THE FILL AND CONTINUING THROUGH THE FILL TO THE TOP OF THE PIPE. TESTS SHALL BE TAKEN AT 6' INTERVALS HORIZONTALLY ON BOTH SIDES OF THE PIPE FOR A DISTANCE EQUAL TO THE DEPTH OF THE FILL FROM THE TOP OF PIPE TO VIRGIN SOIL.
- 19. CONTRACTOR TO REMOVE AND DISPOSE OF ALL VEGETATION AFFECTING CONSTRUCTION WITHIN THE CONSTRUCTION LIMITS SHOWN ON THE PLANS IN ACCORDANCE WITH IDOT AND IEPA STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED. ALL REMOVED VEGETATION SHALL BE DISPOSED OF WITHIN 7 DAYS OF REMOVAL.
- 20. PROPOSED CONTOURS AND SPOT ELEVATIONS GENERALLY REFLECT ULTIMATE FINISH GRADE. FOR EARTH GRADES, THE FULL DEPTH OF PAVEMENT MUST BE SUBTRACTED FROM THE ELEVATIONS SHOWN. SEE PAVEMENT SECTION DETAILS AS APPLICABLE FOR SIDEWALKS AND PAVEMENT AREAS.
- 21. THE REMOVAL OF ALL UNUSABLE, UNSTABLE AND/OR UNSUITABLE MATERIALS IN ALL CUT AND FILL AREAS AND THEIR REPLACEMENT WITH SATISFACTORY MATERIAL, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE CONTRACT.
- 22. ALL TOPSOIL, VEGETATION, ROOTS, AND ANY SOFT SOILS SHALL BE STRIPPED FROM SIDEWALK, PAVEMENT AND BUILDING AREAS. SITE SHALL THEN BE PROOF-ROLLED, SCARIFIED AND PROCESSED TO AN OPTIMUM MOISTURE CONTENT TO ATTAIN REQUIRED COMPACTION DENSITY OF SUBGRADE SOILS. ALL SUBGRADE SOILS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D-698, FOR A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE FOR PREPARED SUBGRADE.
- 23. CONTRACTOR IS TO ARRANGE FOR DENSITY TESTING PRIOR TO CONSTRUCTION AND DURING CONSTRUCTION TO VERIFY THAT THE COMPACTION MEETS THE SPECIFICATIONS AND THAT THE SUBGRADE IS WITHOUT SOFT SPOTS. COPIES OF THE TESTING SHALL BE SUPPLIED TO THE OWNER AND ENGINEER/ARCHITECT.
- 24. CONTRACTOR SHALL COORDINATE WITH AN ENGINEERING OR MATERIALS TESTING FIRM FOR TESTING FILL MATERIALS, PAVEMENT COMPONENTS, AND OTHER CONSTRUCTION MATERIALS. CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS ADVANCED NOTICE FOR TESTING PERSONNEL. ALL REQUIRED TESTING SERVICES SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- 25. EXCESS EXCAVATED MATERIAL NOT TO BE USED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF ON A SITE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE IDOT STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- 27. STONE FOR HEAVY STONE REVETMENT BLANKET SHALL BE SOUND, DURABLE AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE THE REVETMENT TO DETERIORATE. THE STONE SHALL NOT CONTAIN ANY SOAPSTONE, SHALE OR OTHER MATERIAL EASILY DISINTEGRATED. THE STONE BLANKET SHALL BE AT LEAST 24 INCHES IN THICKNESS PERPENDICULAR TO THE SLOPE AND BOTTOM OF THE DRAINAGE DITCH/SWALE. STONE SHOULD BE BLOCKY IN SHAPE RATHER THAN ELONGATED, MORE NEARLY CUBICAL IN SHAPE, "NESTED" TOGETHER TO PROVIDE MORE RESISTANT TO MOVEMENT. THE STONE SHALL BE PREDOMINANTLY ANGULAR IN SHAPE. APRON LINING MUST EXTEND INTO A STABLE CHANNEL. STONES SHALL BE AT LEAST 12 INCHES IN SIZE AND ALL STONES SHALL WEIGH NO LESS THAN 50 POUNDS, AND AT LEAST 60 PERCENT SHALL WEIGHT NO LESS THAN 100 POUNDS. HEAVY STONE REVETMENT SHALL BE UNDERLAIN WITH A MIRAFI 140N FILTER FABRIC AND PLACED ON A PREPARED SUBGRADE. ALL ENDS OF FILTER FABRIC TO BE ANCHORED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. HEAVY STONE REVETMENT BLANKET SHALL BE IN ACCORDANCE WITH IDOT SPECIFICATION SECTIONS 281, 282, AND 1005 AND BE GRADATION RR-6.
- 28. COHESIVE FILL UNDER BUILDINGS, STEPS, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER SLABS ON GRADE, PAVED AREAS, UTILITY LINES AND TRENCH BACKFILLS SHALL BE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY. WELL GRADED AGGREGATE FILL UNDER FOOTINGS SHALL BE COMPACTED TO A MINIMUM 100% OF MAXIMUM DRY DENSITY. UNDER LAWN OR UNPAVED AREAS, COMPACT SOIL TO A MINIMUM 85% MAXIMUM DRY DENSITY. COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D-698 WITH 6" MAXIMUM COMPACTED LIFTS, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADJUST AFOREMENTIONED COMPACTION INFORMATION BASED ON GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS IF SAID GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS DIFFERS FROM AFOREMENTIONED COMPACTION INFORMATION.

### UTILITY NOTES:

- 1. ALL WATER AND SANITARY SEWER IMPROVEMENTS AND APPURTENANCES METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, ILLINOIS EASTERN COMMUNITY COLLEGES, IEPA, AWWA, ASTM, IDOT, ILLINOIS POLLUTION CONTROL BOARD, ILLINOIS STATE PLUMBING CODE, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND GREAT LAKES UPPER MISSISSIPPI RIVER BOARD 10 STATES STANDARDS.
- 2. PRIOR TO OBTAINING CONSTRUCTION PERMITS THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE JURISDICTIONAL ENTITIES WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE.
- 3. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED AND SHOWN FROM AVAILABLE INFORMATION AND RECORDS. THEREFORE, THEIR LOCATION AND RELATIONSHIP TO NEW PROPOSED WORK MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL LOCAL GOVERNING AGENCIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION TO DETERMINE THEIR UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN. THE ENGINEER AND THE OWNER DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.
- 4. ALL WATER SERVICE PIPING SHALL BE COPPER TUBING ASTM B-88, TYPE K AND L ANNEALED; POLYETHYLENE PIPING AWWA C901, SDR-9; OR HDPE ASTM D-2737, PE 3408, DR-9. ALL WATER SERVICE PIPING SHALL HAVE A MINIMUM COVER OF 42", UNLESS OTHERWISE NOTED. WATER SERVICE TRACER TAPE TO BE INSTALLED WITH ALL PVC WATER SERVICES AND WATER SERVICE LOCATOR WIRE TO BE INSTALLED WITH ALL PVC WATER SERVICES, FITTING AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 5. ALL GRAVITY SANITARY SEWER PIPING SHALL BE ASTM D-3034, SDR-35 PVC WITH BELL AND SPIGOT STYLE RUBBER RING SEALED GASKET JOINTS. PIPE SHALL HAVE JOINTS CONFORMING TO ASTM D-3139 WITH ELASTOMERIC SEALS CONFORMING TO ASTM F-477. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321.
- 6. ALL SANITARY SEWER SERVICE LATERAL PIPING SHALL BE ASTM D-1785, SCHEDULE 80 PVC WITH BELL AND SPIGOT STYLE SOLVENT SEALED JOINTS ENDS. PIPE SHALL HAVE JOINTS CONFORMING TO ASTM D-2855 SOLVENT WELD WITH ASTM D-2564 SOLVENT CEMENT. FITTING SHALL BE PVC CONFORMING TO ASTM D-2466. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321. CLEANOUTS SHALL BE INSTALLED AT ALL ALIGNMENTS CHANGE PURSUANT TO DETAILS.
- 7. ALL SANITARY SEWER FORCEMAIN PIPING SHALL BE ASTM D-2241, SDR-21 PVC AND RESTRAINED JOINTS, MECHANICAL JOINTS OR PUSH-ON JOINTS AWWA C111 WITH DUCTILE IRON MECHANICAL JOINT FITTINGS AWWA C153 RESTRAINED WITH MECHANICAL RESTRAINERS. ALL SANITARY SEWER FORCEMAIN PIPING SHALL HAVE A MINIMUM COVER OF 42", UNLESS OTHERWISE NOTED. FORCEMAIN TRACER TAPE TO BE INSTALLED WITH ALL PVC FORCEMAIN, FITTING AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 8. GRANULAR CRADLE SHALL BE CONSTRUCTED ON ALL PVC SANITARY SEWER PIPING FROM A PLANE 6" BELOW THE PIPE TO A PLANE 6" ABOVE THE PIPE. GRANULAR CRADLE SHALL CONSIST OF CLASS II EMBEDMENT MATERIAL AS PER ASTM D-2321 AND SHALL CONFORM TO IDOT GRADATIONS FA-10, FA-6, OR CA-6. SELECT GRANULAR BACKFILL SHALL CONFORM TO IDOT GRADATION CA-7.
- 9. VALVES SHALL BE RESILIENT SEAT, DOUBLE DISC, NON-RISING STEM VALVES WITH OPERATING NUT AND MECHANICAL JOINT FLANGES MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATION C-509 OR C-515. THEY SHALL HAVE O-RING SEALS AND SHALL BE MANUFACTURED BY WATEROUS COMPANY OR EQUIVALENT.
- 10. MANHOLES SHALL BE CONSTRUCTED OF 48" DIAMETER PRECAST CONCRETE SECTIONS WITH ECCENTRIC CONICAL TOP. PRECAST REINFORCED CONCRETE MANHOLES SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C-478. THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI. THE WALL THICKNESS SHALL CONFORM TO WALL B OF ASTM C-76. THE REINFORCEMENT SHALL BE AS REQUIRED TO WITHSTAND HANDLING, ERECTION AND TEMPERATURE STRESSES. JOINTS SHALL BE LIPPED MALE/FEMALE JOINTS IN ACCORDANCE WITH ASTM C-913 AND SEALED WITH A PREMOLDED MASTIC GASKET IN ACCORDANCE WITH ASTM C-923. CONES AND SECTIONS SHALL BE FREE FROM FRACTURES, LARGE OR DEEP CRACKS AND SURFACE ROUGHNESS. MANHOLE SHALL HAVE LADDER RUNGS CAST INTO THE PRECAST CONCRETE SECTIONS SPACED AT 16" ON CENTER. MANHOLE OPENINGS WILL UTILIZE A "A-LOK" CONNECTION OR APPROVED EQUAL. ALL EXTERIOR SURFACES SHALL BE COATED WITH A BITUMASTIC SEALANT. ADJUST TO GRADE WITH PRECAST RING(S) NOT TO EXCEED 12". MANHOLES SHALL HAVE WATER TIGHT CAST IRON FRAMES AND COVERS IN ACCORDANCE WITH ASTM A 48, CLASS 30B. FRAMES SHALL BE HEAVY DUTY, 7" HEIGHT AND 24" MINIMUM CLEAR OPENING. COVERS SHALL BE HEAVY DUTY, SELF-SEALING WITH CONCEALED PICK HOLES AND INSCRIBED WITH "SANITARY SEWER".
- 11. CAST-IN-PLACE CONCRETE SHALL CONFORM TO IDOT SECTION 1020, CLASS SI CONCRETE. CLASS SI CONCRETE. CLASS SI CONCRETE SHALL CONSIST OF THE FOLLOWING REQUIREMENTS: CEMENT 4-1/2 SACK MINIMUM PER CUBIC YARD, W/C RATIO 0.36 MINIMUM TO 0.45 MAXIMUM (INCLUDING WATER IN AGGREGATES) AND STRENGTH 3,500 PSI IN 28 DAYS AND 1,600 PSI IN 7 DAYS.
- 12. BEFORE SANITARY SEWER EXTENSION SHALL BE ACCEPTED AND PUT INTO SERVICE THE SANITARY SEWER PIPING SHALL PASS DEFLECTION TEST AND LEAKAGE TEST (WATER EXFILTRATION OR INFILTRATION TEST, OR LOW PRESSURE AIR TEST PER ASTM F-1417) REQUIREMENTS AND THE SANITARY SEWER MANHOLES SHALL PASS VACUUM TEST PER ASTM C-1244 OR EXFILTRATION TEST PER ASTM C-969 REQUIREMENTS. BEFORE FORCEMAINS SHALL BE ACCEPTED AND PUT INTO SERVICE THEY SHALL BE TESTED FOR TWO HOURS ON EACH SEGMENT BETWEEN END POINTS AT A TEST PRESSURE OF AT LEAST 50% IN EXCESS OF NORMAL MAXIMUM OPERATING PRESSURE, NOT TO EXCEED 200 PSI. ALL TESTS AND ACCEPTANCE SHALL BE IN ACCORDANCE WITH IEPA, IDOT, IPCB, AWWA AND ASTM SPECIFICATIONS AND STANDARDS.
- 13. UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES.
- 14. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF IEPA AND IDOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING UTILITIES.
- 16. WATER SERVICES SHALL BE STERILIZED AND FLUSHED IN ACCORDANCE WITH ILLINOIS EASTERN COMMUNITY COLLEGES, IEPA AND AWWA SPECIFICATIONS AND STANDARDS.
- 17. EXISTING ABOVE AND BELOW GROUND UTILITIES TO BE PROTECTED AND USED IN PLACE, UNLESS OTHERWISE SPECIFIED. EXISTING UTILITIES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE ADJUSTED TO GRADE.
- 18. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF CONSTRUCTION ACCORDING TO ARTICLE 202.03 OF THE IDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 19. CONTRACTOR WILL COORDINATE ANY INTERRUPTION OF ANY SERVICE LINE WITH THE LOCAL GOVERNING UTILITY AGENCIES AND THE OWNER TO LIMIT UTILITY OUTAGE TO EXISTING CUSTOMERS. THE ACTUAL LOCATION OF THE POINT OF CONNECTION IS APPROXIMATE AND SHALL BE FIELD LOCATED BY THE CONTRACTOR.
- 20. CONTRACTOR TO INSTALL ALL UTILITIES AND APPURTENANCES AS REQUIRED AND IN ACCORDANCE WITH ALL LOCAL GOVERNING UTILITY AGENCIES, MUNICIPALITIES AND STATE AND FEDERAL REQUIREMENTS.
- 21. CONTRACTOR TO LOCATE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LINES AND INSTALL PROPOSED UTILITY IMPROVEMENTS AND APPURTENANCES WITHIN THE EXISTING EASEMENT AND/OR RIGHT-OF-WAY LIMITS AND/OR OWNER'S PROPERTY AS SHOWN ON PLANS.
- 22. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF TRENCH TO BE OPEN AT ANY GIVEN TIME TO A MAXIMUM OF FORTY (40) LINEAR FEET AS MEASURED ALONG THE CENTERLINE OF THE PROPOSED PIPE. ALL OPEN TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY'S WORK AND IMMEDIATE MEASURES TAKEN TO STABILIZE THE DISTURBED AREA.

### WATERMAIN AND SEWER PIPING SEPARATION NOTE:

1. MAINTAIN SEPARATION OF WATERMAIN FROM SEWER PIPING IN ACCORDANCE WITH IEPA SECTION 653.119 PROTECTION OF WATER MAIN AND WATER SERVICE LINES. PARALLEL INSTALLATION — WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. CROSSINGS — WATER MAINS SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWER OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEE HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.



200 NORTH MARKET ST. MARION, IL 62959 PH: 618.998.0075

HILLSBORO, IL
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04-23-2024

11-30-2025 LICENSE EXPIRES

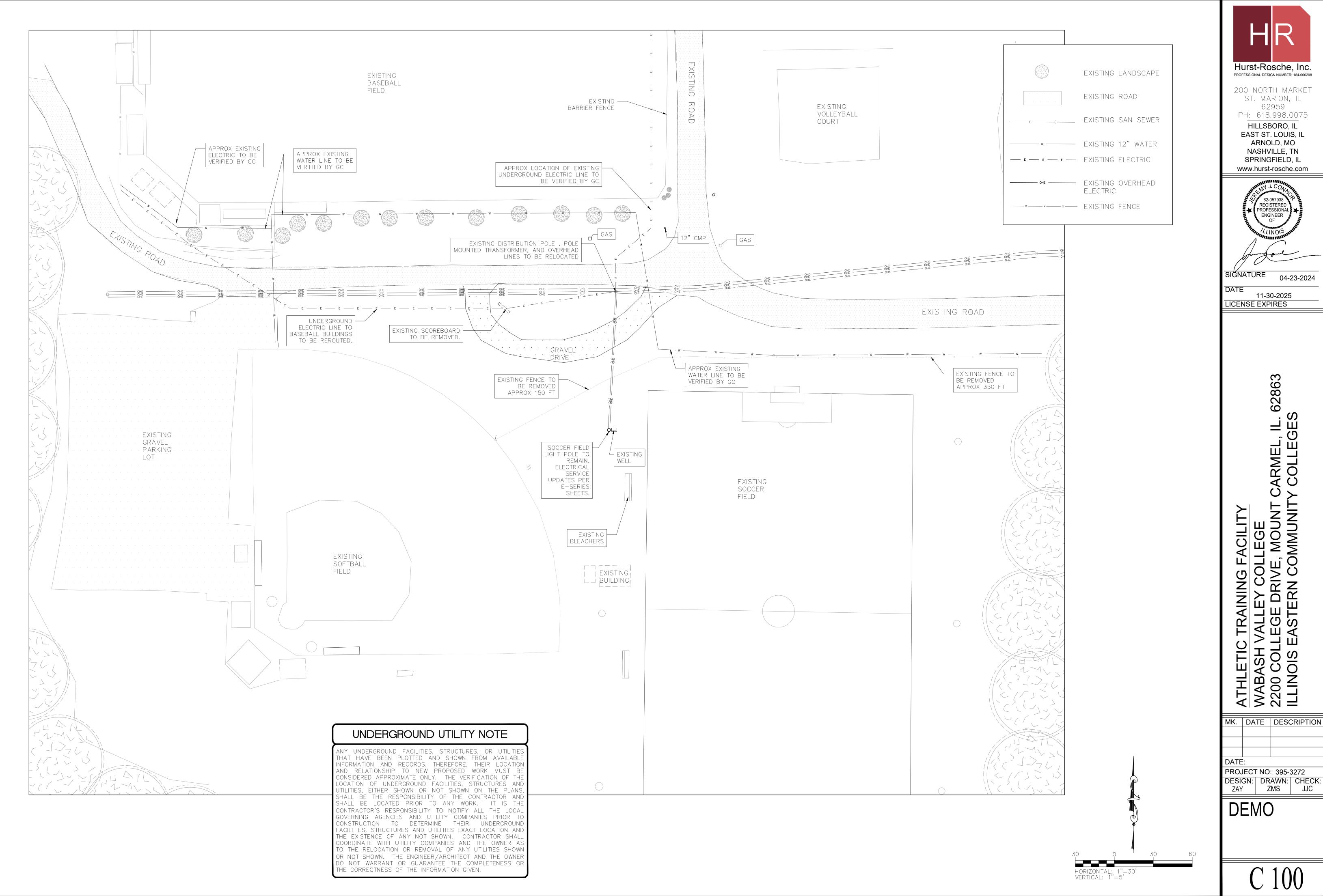
# ATHLETIC TRAINING FACILITY WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 628 ILLINOIS EASTERN COMMUNITY COLLEGES

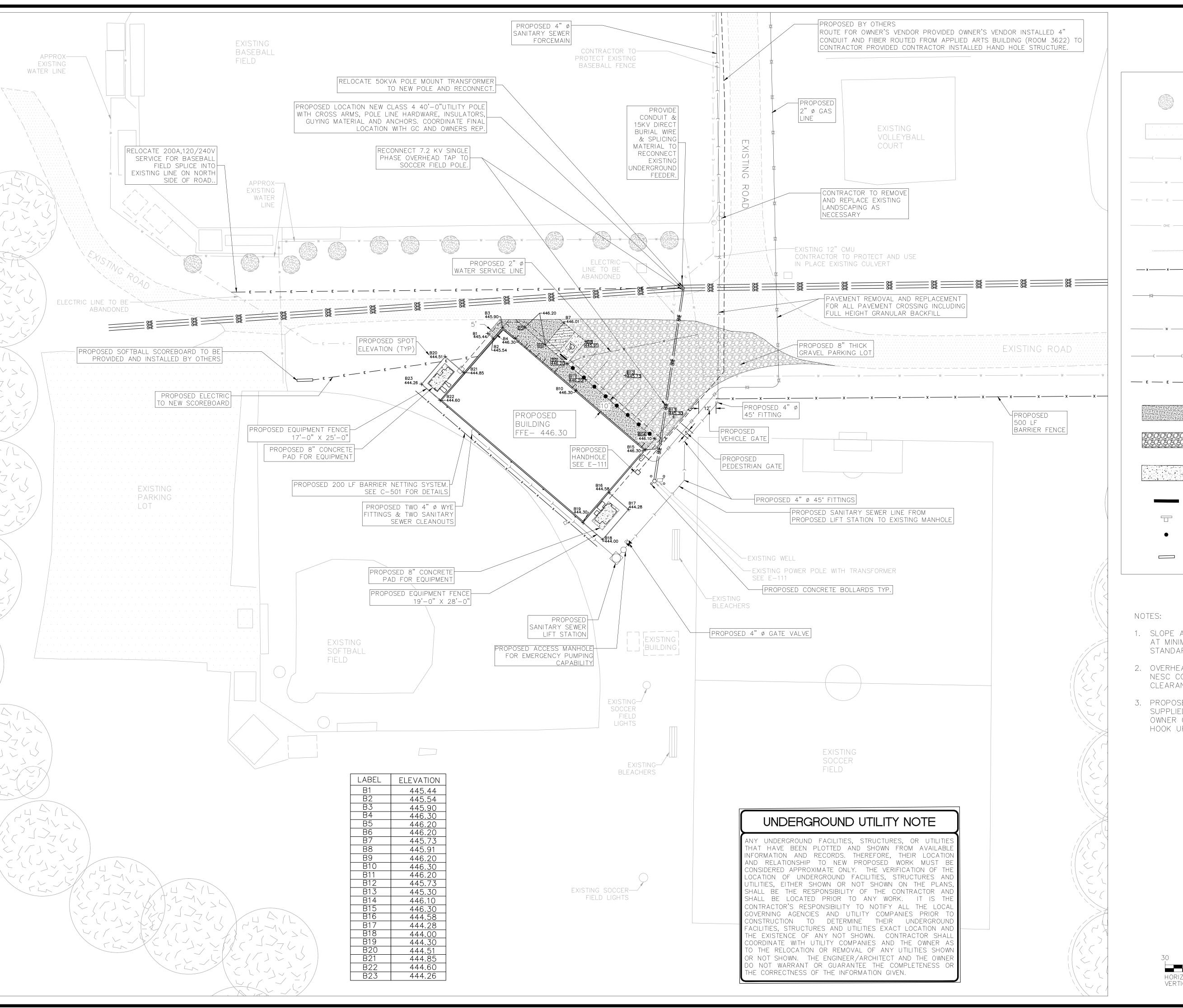
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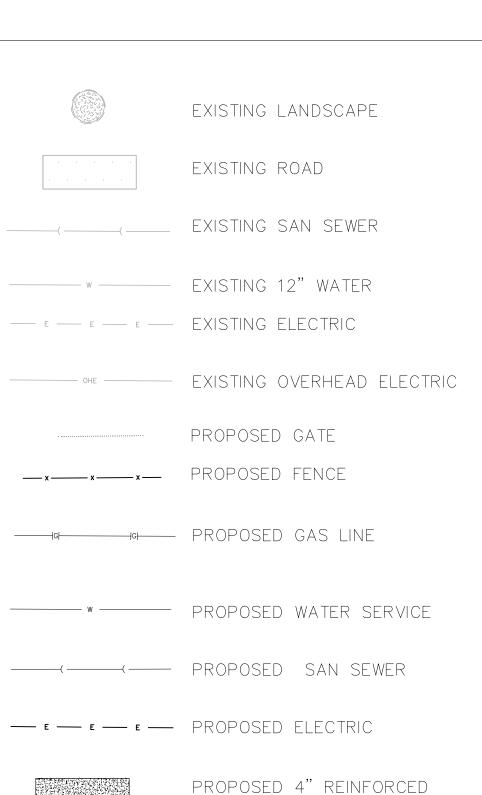
GENERAL NOTES

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SIDEWALK

PARKING LOT

PROPOSED 8" GRAVEL

PROPOSED WHEEL STOP

PROPOSED BOLLARDS

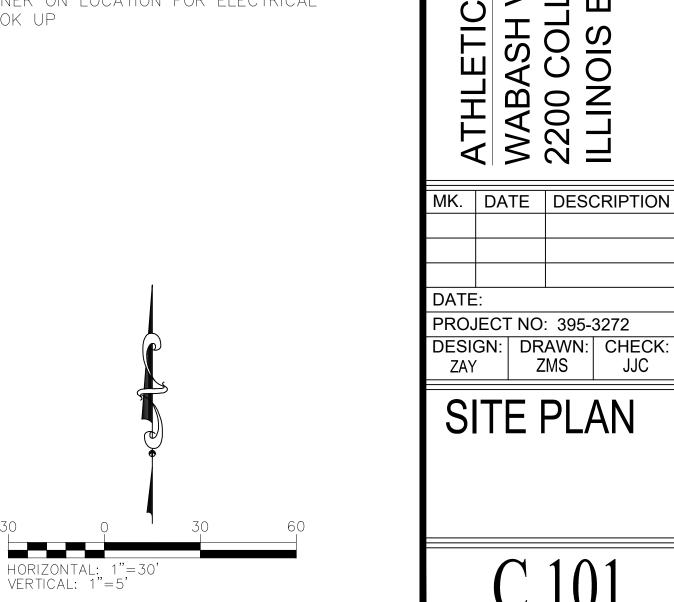
PROPOSED SIGN

PROPOSED 6" VAN ACCESSIBLE ADA CONCRETE PARKING AREA

SCOREBOARD TO BE SUPPLIED

AND INSTALLED BY OTHERS

- 1. SLOPE ALL GRADES AWAY FROM BUILDING AT MINIMUM SLOPE OF 1% AND MEET ALL STANDARD ADA REQUIREMENTS
- 2. OVERHEAD ELECTRIC LINES TO FOLLOW NESC CODES REGARDING REQUIRED CLEARANCES.
- 3. PROPOSED ELECTRIC TO SCOREBOARD, SUPPLIED BY OTHERS, VERIFY WITH OWNER ON LOCATION FOR ELECTRICAL HOOK UP



Hurst-Rosche, Inc.

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ST. MARION, IL

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62-057938 REGISTERED PROFESSIONAL ENGINEER

11-30-2025

62863

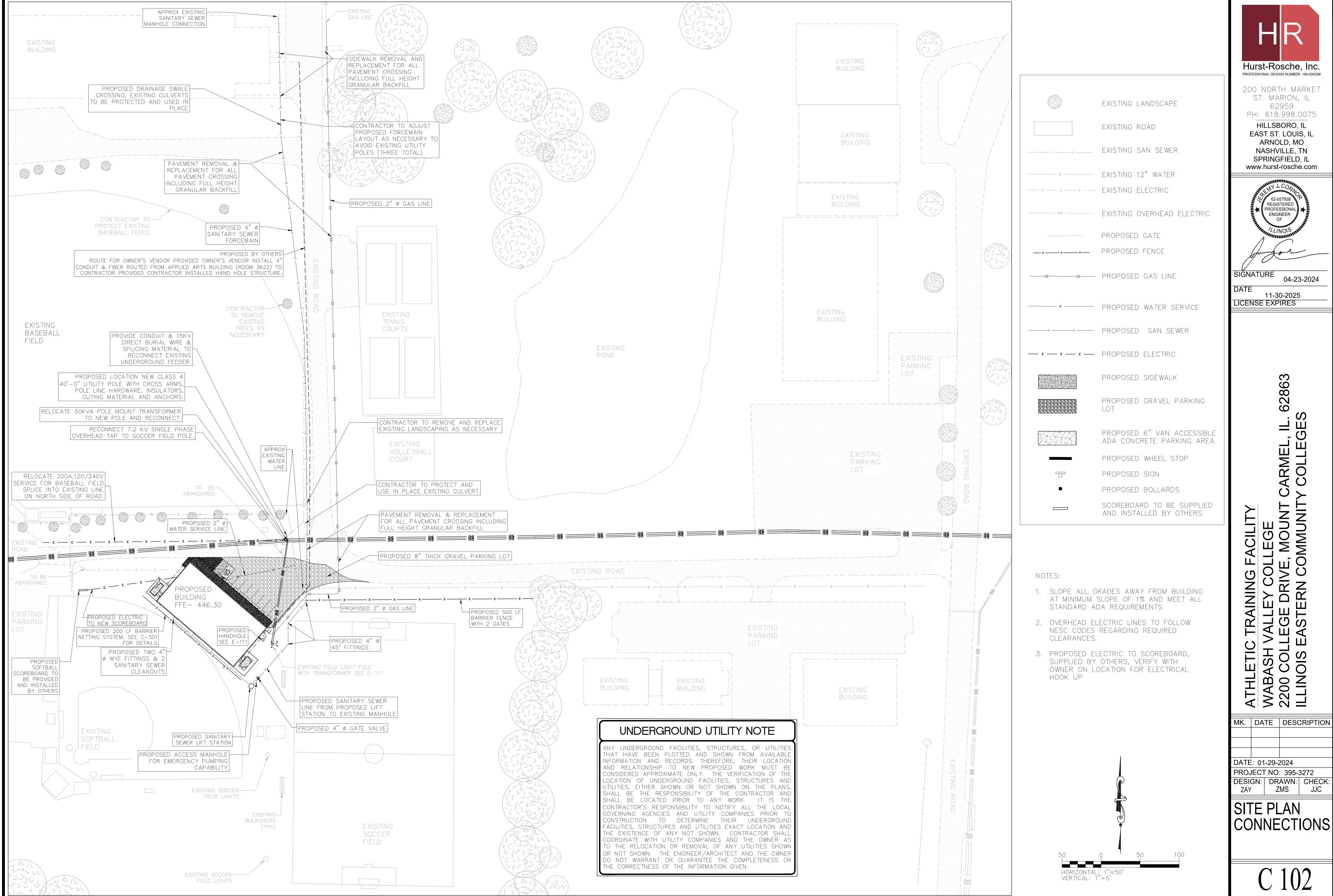
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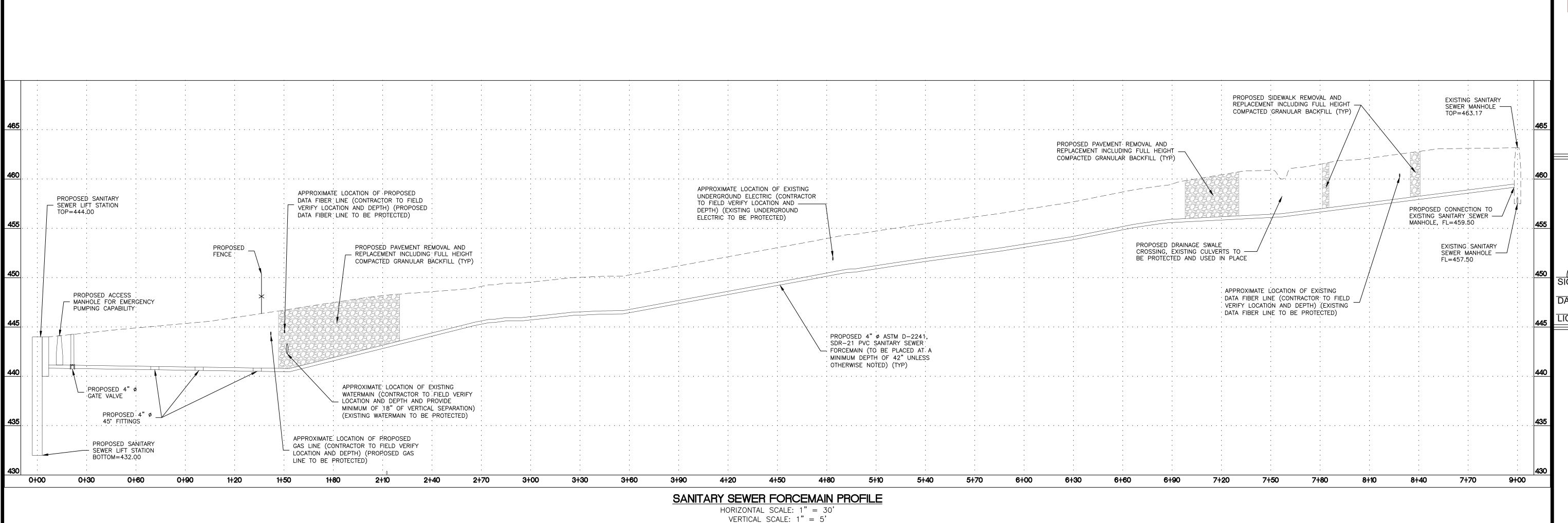
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LICENSE EXPIRES

04-23-2024

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### GENERAL NOTES:

- 1. ALL IMPROVEMENTS AND APPURTENANCES METHOD OF CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES, ILLINOIS EASTERN COMMUNITY COLLEGES, IEPA, ASTM, AND IDOT.
- 2. UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE. IT IS THE CONTRACTOR RESPONSIBILITY TO FIELD VERIFY ALL UTILITIES.
- 3. CONTRACTOR TO ADJUST ALL SERVICE LINES (WATER, GAS, SANITARY, ETC.) THAT CROSS THE PROPOSED UTILITY IMPROVEMENTS AS NECESSARY TO CROSS OVER OR UNDER SAID UTILITY IMPROVEMENTS.
- 4. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL, AND THE SURFACE SHALL BE RESTORED WITH FULL DEPTH PAVEMENT REPLACEMENT IN KIND. BACKFILL AND PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF ALL LOCAL GOVERNING AGENCIES' SPECIFICATIONS AND AS DIRECTED ON THE PLANS.
- 5. EXISTING ABOVE AND BELOW GROUND UTILITIES TO BE PROTECTED AND USED IN PLACE, UNLESS OTHERWISE SPECIFIED. EXISTING UTILITIES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION, EITHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE ADJUSTED TO GRADE.
- 6. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 7. CONTRACTOR TO INSTALL VERTICAL FITTINGS AS NECESSARY TO ADJUST FOR CHANGE IN EXISTING AND PROPOSED GRADES.

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200 NORTH MARKET
ST. MARION, IL
62959

PH: 618.998.0075

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62-057938
REGISTERED
PROFESSIONAL
ENGINEER
OF

SIGNATURE

04-23-2024

DATE

04-23-2 DATE 11-30-2025 LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 6286;
ILLINOIS EASTERN COMMUNITY COLLEGES

MK. DATE DESCRIPTION

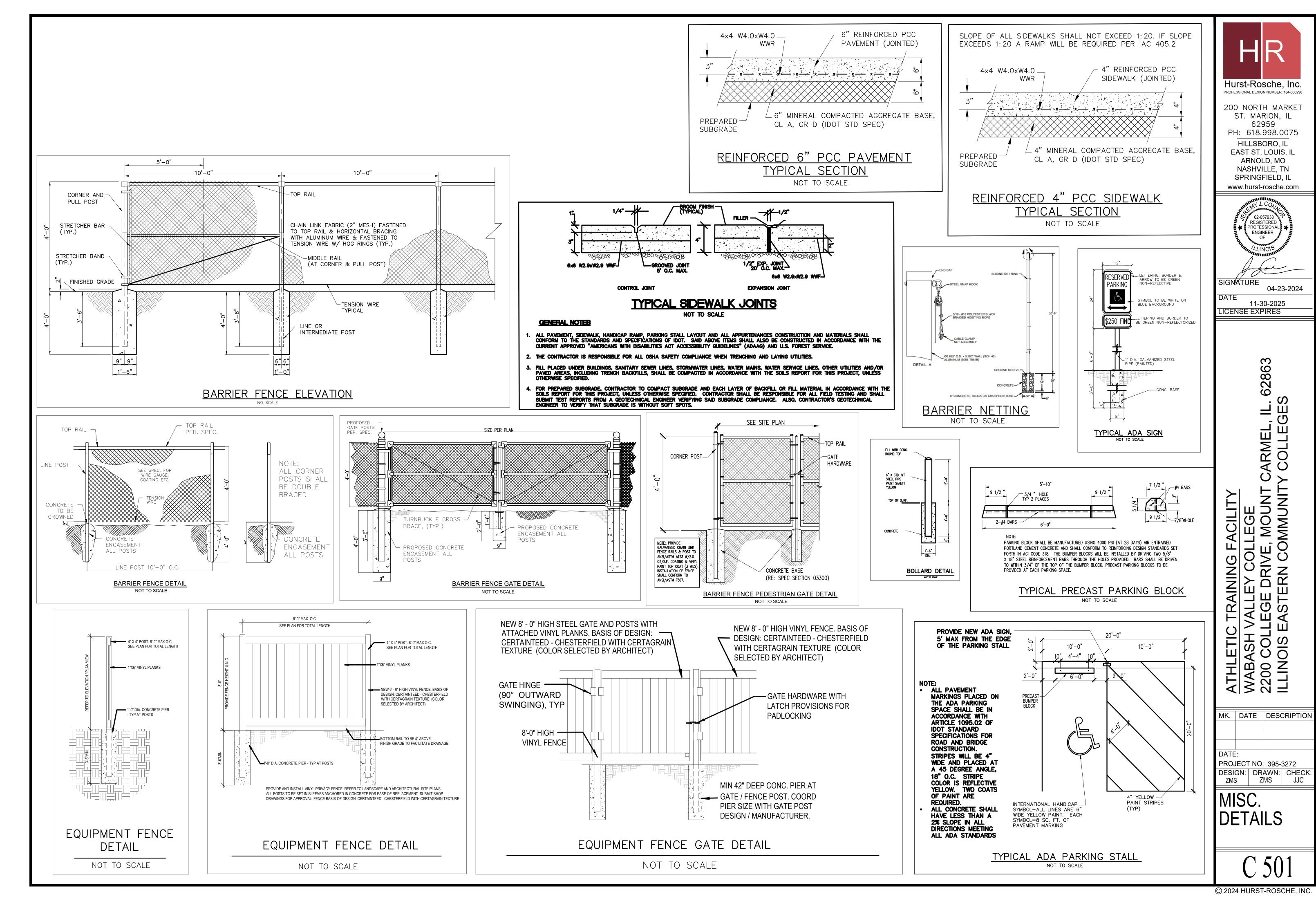
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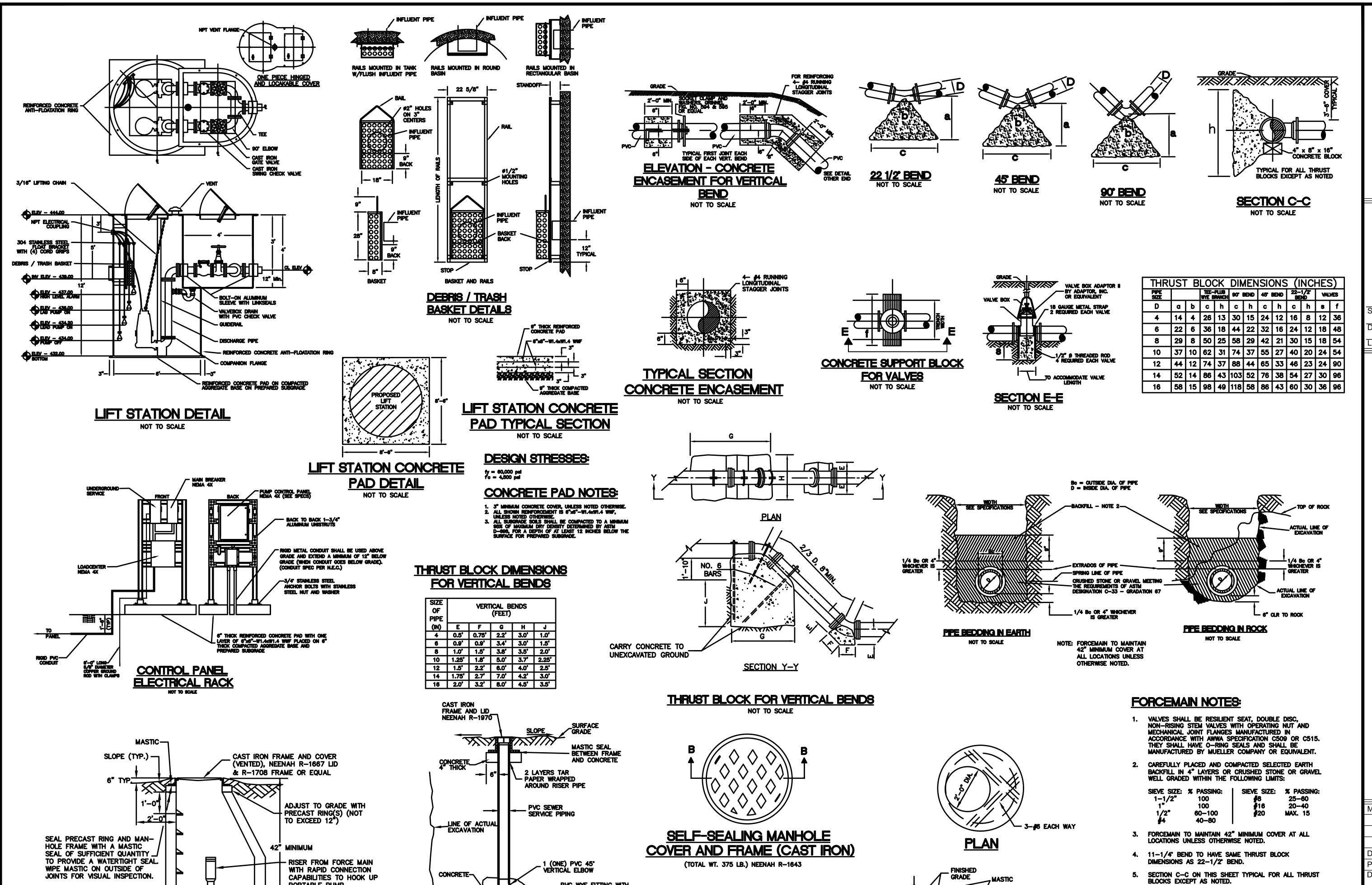
PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK

SANITARY
SEWER
FORCEMAIN
PROFILE

C 103





25 3/4"

SECTION B-B

GRADE

DIA.

**DETAIL OF MANHOLE TOP** 

(WHERE RESTRICTED HEADROOM WILL NOT PERMIT TAPERED WALLS)

CONCRETE-

**─**—2'-0" MIN.—

**CLEANOUT DETAIL** 

NOT TO SCALE

PVC WYE FITTING WITH

PROPOSED PVC

**SEWER SERVICE PIPING** 

45° TAKEOFF

CAPABILITIES TO HOOK UP

4"x8"x16" CONCRETE

**BLOCKS (3 REQUIRED)** 

PORTABLE PUMP

JOINTS FOR VISUAL INSPECTION.

4" BALL VALVE

**CONCRETE ANCHOR** 

ACCESS MANHOLE FOR EMERGENCY

PUMPING CAPABILITY

PRECAST MANHOLE TO CONFORM TO THE

DESIGNATION C478, LATEST REVISION

CONE SECTION

REQUIREMENTS OF ASTM

Hurst-Rosche, Inc PROFESSIONAL DESIGN NUMBER: 184-000298 200 NORTH MARKET ST. MARION, IL 62959 PH: 618.998.0075 HILLSBORO, IL EAST ST. LOUIS, IL ARNOLD, MO NASHVILLE, TN SPRINGFIELD, IL www.hurst-rosche.com



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DETAILS

8. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE FULL HEIGHT GRANULARLY FILLED WITH COMPACTED SELECT GRANULAR BACKFILL.

THE CONTRACTOR IS RESPONSIBLE FOR ALL OSHA SAFETY COMPLIANCES WHEN TRENCHING AND LAYING

10. LOCATOR WIRE SHALL BE INSTALLED WITH ALL PVC FORCEMAIN, FITTING AND VALVE INSTALLATIONS AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF IDOT, PROJECT SPECIFICATIONS AND AS DIRECTED ON THE

### . DESIGN CRITERIA

A. CODES AND STANDARDS ALL DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE B. LIVE LOAD DATA ..20 PSF ALL LIVE LOADS REDUCIBLE PER BUILDING CODE WIND LOAD DATA BASIC WIND SPEED (SERVICE LEVEL).. .90 MPH IMPORTANCE FACTOR.

**EXPOSURE CLASSIFICATION BUILDING CLASSIFICATION..** .ENCLOSED COMPONENTS AND CLADDING WIND PRESSURE. .SEE S-002 SEISMIC LOAD DATA MAPPED SPECTRAL ACCELERATIONS 0.2 SECOND PERIOD (Ss) 1.0 SECOND PERIOD (S1).

..0.614 ..0.185 SPECTRAL RESPONSE COEFFICIENTS 0.2 SECOND PERIOD (SDs) ..0.535 1.0 SECOND PERIOD (SD1). ..0.275 OCCUPANCY CATEGORY SEISMIC IMPORTANCE FACTOR ..1.00 SITE CLASS. SEISMIC DESIGN CATEGORY. **ANALYSIS PROCEDURE** EQUIVALENT LATERAL FORCE

SEISMIC FORCE-RESISTING SYSTEM: MAIN FRAMING: DEFERRED TO METAL BUILDING MANUFACTURER LIGHT-FRAME WALLS WITH FLAT STRAP BRACING R = 4,  $\Omega_0 = 2$ ,  $C_d = 3 1/2$ 

SNOW LOAD DATA .15 PSF GROUND SNOW LOAD. FLAT ROOF SNOW LOAD ..15 PSF SNOW EXPOSURE FACTOR. SNOW LOAD IMPORTANCE FACTOR. ...1.0 THERMAL EXPOSURE FACTOR.

IN CASE OF CONFLICT BY GOVERNING CODES, THE MOST STRINGENT REQUIREMENT SHALL GOVERN

### 2. FOUNDATIONS:

1. THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN HURST-ROSCHE'S REPORT TITLED GEOTECHNICAL INVESTIGATION - PROPOSED ATHLETIC TRAINING FACILITY WABASH VALLEY COLEGE, DATED DECEMBER 15, 2023.

ENGINEERED FILL PLACED BENEATH THE BUILDING AREA AT DEPTHS LESS THAN EIGHT (8) FEET SHALL BE PLACED IN LIFTS NOT EXCEEDING 6-8 INCHES IN LOOSE THICKNESS AND MUST BE COMPACTED TO A MINIMUM OF 95 PERCENT OR GREATER OF THE MAXIMUM DRY DENSITY, AS DETERMINED IN ASTM D698, AND WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. ENGINEERED FILL SHALL BE OBTAINED AND/OR PREPARED IN ACCORDANCE WITH THE PREVIOUSLY REFERENCED GEOTECHNICAL REPORT

ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM BELOW GRADE BEAMS, FOOTINGS, SLABS, AND BACKFILL AREAS, AND THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL CONTAINING LESS THAN 5% MATERIAL PASSING THE NO. 200 SIEVE. GRANULAR FILL SHALL BE COMPACTED TO 100 PERCENT OR GREATER OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AND PLACED WITH A MOISTURE CONTENT WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.

GRANULAR FILL BENEATH GRADE BEAMS, FOOTINGS, SLABS, AND BACKFILLED AREAS SHALL BE A MINIMUM 6 INCH LAYER DIRECTLY BELOW THESE ELEMENTS, U.N.O.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING, GRADE BEAM, OR STRUCTURAL SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.

ALL SLABS-ON-GRADE SHALL BE PLACED OVER A CONTINUOUS VAPOR RETARDER OVER A MINIMUM OF 6 INCHES OF COMPACTED GRANULAR MATERIAL WHICH IS PLACED OVER A COMPACTED SOIL SUBGRADE. GRADE BEAMS AND WALLS THAT RETAIN EARTH ON BOTH SIDES SHALL

BE BACKFILLED ON BOTH SIDES SIMULTANEOUSLY. B. FOOTINGS

SHALLOW FOOTINGS SHALL BEAR ON PREPARED SUBGRADE CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 1800 PSF AND 2150 PSF FOR CONTINUOUS AND INDIVIDUAL COLUMN FOOTINGS,

RESPECTIVELY, UNDER FULL SERVICE LIVE AND DEAD LOAD. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH U.N.O. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER OR AUTHORIZED REPRESENTATIVE PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE

JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING

ELEVATIONS SHALL BE ADJUSTED AS REQUIRED BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 3'-0" BELOW FINAL EXTERIOR GRADE FOR FROST PROTECTION U.N.O.

### 3. CONCRETE:

ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

NORMAL WEIGHT SRUCTURAL CONCRETE

	EXP. CLASS	COMPRESSIVE STRENGTH, f'c	MAX. W/C RATIO	MAX. AGGREGATE SIZE
FOOTINGS, PEDASTALS	C1	4000 PSI	0.5	1"
INTERIOR SLABS-ON-GRADE	C1	4000 PSI	0.45	1"

UNLESS NOTED OTHERWISE ABOVE OR ELSEWHERE IN THE SRUCTURAL DRAWINGS, ALL NORMAL WEIGHT CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE CLASS F0, S0, W0, AND C0 ACCORDING TO ACI 318.

C. NO CONCRETE SHALL BE POURED IN EXCAVATIONS CONTAINING WATER.

### 3. CONCRETE CTN'D:

ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ARCHITECT. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.

UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED

SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, SLAB DEPRESSIONS, AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.

MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA

BASES AT MECHANICAL EQUIPMENT. REFER TO PLUMBING DRAWINGS FOR UNDERFLOOR AND PERIMETER

FOUNDATION DRAINS. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COATED WITH 1/8" OF MASTIC OR COVERED WITH A MINIMUM OF 3" CONCRETE

PROVIDE CONTINUOUS WATERSTOPS IN ALL CONSTRUCTION JOINTS IN BUILDING WALLS BELOW GRADE.

ALL CONCRETE IS REINFORCED CONCRETE UNLESS SPECIFICALLY CALLED OUT AS "UNREINFORCED." REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH SAME REINFORCED STEEL AS IN SIMILAR SECTIONS OR AREAS BARS MARKED CONTINUOUS AND ALL VERTICAL STEEL SHALL BE LAPPED PER

THE REQUIREMENTS OF SHEET S-002.

NO ALUMINUM ITEMS SHALL BE EMBEDDED IN CONCRETE. ALL REINFORCEMENT SPACING ARE SHOWN TO CENTERLINE OF BARS

UNLESS NOTED OTHERWISE. PLACE REINFORCEMENT AS SHOWN. REFER TO NOTES BELOW FOR

REINFORCEMENT NOT SHOWN: CENTER ALL VERTICAL REINFORCEMENT IN WALL PANELS,

FOUNDATIONS, AND FROST WALLS. CENTER ALL WWR SLAB REINFORCEMENT AND DOWELS. INTERIOR SLAB-ON-GRADE SHALL BE CONSTRUCTED AS A 5" NORMALWEIGHT

### 4. REINFORCEMENT:

REINFORCING STEEL SHALL BE COMPLIANT WITH ASTM A615 GR 60KSI, MIN. REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM CONVERGE. PLACE BARS AS NEAR TO THE CONCRETE SURFACE AS THESE MINIMUMS PERMIT WHEREVER POSSIBLE U.N.O.:

MIN. CONCRETE COVER CONCRETE POURED AGAINST EARTH FORMED CONCRETE IN CONTACT WITH EARTH FACE OF CONCRETE EXPOSED TO WEATHER INTERIOR SLABS AND WALLS INTERIOR BEAMS AND COLUMNS 1 1/2"

CONCRETE SLAB WITH 6X6-W2.9xW2.9 W.W.R.

ALL LAP SPLICES ARE CLASS "B" LAP SPLICES, U.N.O. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.

ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. U.N.O.

BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE A.C.I. STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, U.N.O.. ALL DOWELS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE.

IN WALL REINFORCING, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE, U.N.O.

DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZE, CLEARANCES, LAPS, INTERSECTIONS, AND COVERAGE REQUIRED BY STRUCTURAL DETAILS, APPLICABLE CODE, AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.

NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE. WHERE SHOWN ON THE DRAWINGS, WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS SPECIFICALLY CERTIFIED FOR REINFORCING STEEL. USE E90XX ELECTRODES.

### 5. METAL ROOF DECK:

THIS SECTION APPLIES TO DECK NOT SUPPLIED BY THE METAL BUILDING **MANUFACTURER** 

METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL

DECK INSTITUTE. METAL ROOF DECK ③D DESIGN IS A S.D.I. 22 GAUGE TYPE "B" 1 1/2" DEEP ROOF DECKING AND SHALL BE ROLLED OF STEEL SHEETS WITH A MINIMUM YIELD STRENGTH OF 50KSI. DECK MUST BE GALVANIZED TO G90 REQUIREMENTS. DECK DESIGN HAS THE FOLLOWING SECTION PROPERTIES PER FOOT OF WIDTH:

•  $I^+ = 0.155 \text{ INCH}^4$ 

•  $I^- = 0.178 \text{ INCH}^4$ •  $S^+ = 0.169 \text{ INCH}^3$ •  $S^{-} = 0.179 \text{ INCH}^{3}$ 

MANUFACTURED DECKS WITH PROPERTIES NOT MATCHING THE PREVIOUS NOTE ARE PERMITTED PROVIDED THE DECK IS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND IT MEETS OR EXCEEDS THE PROJECT STRUCTURAL REQUIREMENTS.

DO NOT SUSPEND PIPES, CEILING GRID, OR DUCTS FROM ROOF DECK. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS. SUPPORTS SPACES CLOSER THAN 2' SHALL BE CONSIDERED AS ONE SUPPORT.

DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

### 6. COLD-FORMED STEEL FRAMING:

THIS SECTION APPLIES TO STRUCTURAL MEMBERS COLD-FORMED TO SHAPE CARBON OR LOW-ALLOY STEEL SHEET, STRIP, PLATE, OR BAR NOT MORE THAN 1 INCH IN THICKNESS AND USED FOR LOAD-CARRYING PURPOSES. THIS SECTION DOES NOT APPLY TO ELEMENTS PROVIDED BY THE METAL BUILDING MANUFACTURER.

COLD-FORMED (OR LIGHT GAUGE) STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH AISI S100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND AISI S240 "STANDARD FOR COLD-FORMED STEEL FRAMING"

CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS. TYPE. LOCATION AND SPACING. INDICATE SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ETC. REQUIRED FOR PROPER INSTALLATION. STEEL WITH 54, 68, AND 97 MILS THICKNESS (16, 14, AND 12 GAGE) SHALL

HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR THINNER COMPONENTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED

UP WITH RUST INHIBITIVE PAINT. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. U.N.O., PROVIDE DOUBLE STUDS AT ALL JAMBS,

CORNERS, INTERSECTIONS, AND BEAM BEARING POINTS. WALL STUD BRIDGING SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAX. INTERVALS, AS RECOMMENDED BY THE STUD MANUFACTURER OR DETAILS SHOWN HEREIN. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT. ADDITIONALLY, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND WHERE NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

STUDS, COLUMNS AND JOISTS SHALL NOT BE SPLICED

STRAPS FOR THE LATERAL-LOAD RESISTING SYSTEM SHALL BE PRE-TENSIONED OR OTHERWISE GUARDED AGAINST BEING INSTALLED IN A LOOSE CONDITION.

MEMBERS ARE SPECIFIED PER AISI GUIDELINES. EXAMPLE: 600S200-48 INDICATES

600 = 6" (MEMBER DEPTH IN 1/100 INCH), S = STR. STUD (MEMBER STYLE) 200 = 2" (FLANGE WIDTH IN 1/100 INCH), 48 = 48 mils (MATERIAL THICKNESS)

### 7. STEEL JOISTS

BRIDGING: K SERIES JOISTS: UNLESS NOTED OTHERWISE, BRIDGING SHALL BE DESIGNED AND SPACED IN ACCORDANCE WITH S.J.I. SPECIFICATIONS.

UNLESS NOTED OTHERWISE, JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORKS AS FOLLOWS:

K SERIES JOISTS: TWO 3/16" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT.

BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, SHALL BE ATTACHED TO TOP FLANGE BY FIELD WELDING OR

JOISTS SHALL BE STOCKPILED AT THE JOBSITE IN A VERTICAL POSITION RESTING ON THEIR TOP OR BOTTOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED WITH WOOD BLOCKING, KEEP JOISTS FREE OF MUD AND DIRT. E. IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO SEE THAT JOISTS WHICH

ARE DAMAGED, KINKED, BENT, OR WITH BROKEN WELDS, ARE NOT PLACED IN THE STRUCTURE.

IF A CONCENTRATED LOAD OCCURS BETWEEN PANEL POINTS, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL WEB MEMBER FROM THE LOAD POINT TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD. G. SUBMIT SHOP DRAWINGS FOR JOISTS INDICATING SIZE, SPACING, AND

BRIDGING AS REQUIRED BY THE SPECIFICATIONS. THE SERVICES OF AN OPEN-WEB STEEL JOIST DESIGN ENGINEER SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. THE JOIST DESIGN ENGINEER SHALL BE A LICENSED STRUCTURAL ENGINEER IN THE STATE OF

ILLINOIS. DESIGN OF FLOOR JOISTS AND BRIDGING SHALL CONSIDER THE **FOLLOWING LOADS:** DEAD LOAD = 10PSF LIVE LOAD = 30PSF

SNOW LOAD, WIND LOAD: N/A CONTRACTOR TO HAVE METAL SHIMS AVAILABLE FOR ANY NECESSARY JOIST BEARING ELEVATION ADJUSTMENT.

### 8. STRUCTURAL STEEL:

THIS SECTION APPLIES TO STRUCTURAL STEEL NOT SUPPLIED BY THE METAL BUILDING MANUFACTURER.

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND AISC 303 CODE OF STANDARD PRACTICE. WIDE FLANGE (W-) SHAPES SHALL CONFORM TO ASTM A992, HOLLOW

STRUCTURAL STEEL (HSS) SHAPES TO ASTM A500 GR.C, CHANNELS AND PLATE MATERIAL TO ASTM A36.

U.N.O. THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE MINIMUM BOLT DIAMETER SHALL BE 3/4", AND THE MINIMUM WELD SHALL BE 3/16". BOLT HOLES SHALL BE STANDARD (STD) SIZE U.N.O.

ALL STRUCTURAL STEEL EXPOSED TO VIEW ON INTERIOR OR EXTERIOR OF THE BUILDING SHALL CONFORM TO THE REQUIREMENTS OF ARCHITECT-URALLY EXPOSED STEEL OF AISC CODE OF STANDARD PRACTICE

ALL EXTERIOR EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, U.N.O. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS

PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. NO CHANGE IN SIZE OR POSITION OF STRUCTURAL ELEMENTS SHALL BE

MEMBER UNLESS THEY ARE APPROVED BY THE ARCHITECT/ENGINEER. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE

MADE AND HOLES, SLOTS, CUTS, ETC. ARE NOT PERMITTED THROUGH ANY

STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE.

ALL ADDITIONAL STEEL OR OTHER MATERIALS REQUIRED BY THE CONTRACTOR FOR ERECTION PURPOSES AND SITE ACCESS OF STOCKPILED MATERIALS SHALL BY PROVIDED AT NO COST TO THE OWNER. ALL SUCH ADDITIONAL MATERIALS SHALL BE REMOVED BY THE CONTRACTOR UNLESS APPROVED BY THE OWNER IN WRITING.

### 9. MANUFACTURER-DESIGNED METAL BUILDING SYSTEMS:

THE BUILDING FRAME COLUMNS SHALL HAVE PINNED BASES AND SHALL

NOT TRANSFER MOMENTS TO THE FOUNDATIONS. THE FOUNDATIONS AND ANCHOR RODS SHOWN IN THESE DESIGN DRAWINGS ARE FOR BIDDING PURPOSES ONLY AND MAY BE MODIFIED DURING SHOP DRAWING REVIEW BASED ON THE REACTIONS PROVIDED BY THE DEFERRED DESIGNER/MANUFACTURER.

ALL STRUCTURAL STEEL COMPONENTS, INCLUDING ANCHOR RODS, SHALL BE CERTIFIED AS WELDABLE.

GENERAL CONCTACTOR SHALL SUPPLY ALL ANCHOR RODS, NUTS, AND WASHERS TO SECURE THE BUILDING TO THE FOUNDATION

DEFLECTION OF WALL AND ROOF CLADDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 13 34 19.

DEFLECTION OF WALL GIRTS SHALL BE LIMITED TO L/120 DURING A 10-YEAR RECURRANCE WIND SPEED. DEFLECTIONS OF ROOF PURLINS SHALL BE L/240 FOR ALL LIVE LOADING TYPES, L/180 FOR TOTAL LOADS USING THE LOAD COMBINATIONS OF IBC 2015. THE METAL BUILDING SYSTEM SUPPLIER SHALL PROVIDE FOR SUPPORT OF ANCILLARY STRUCUTRAL ELEMENTS WHERE NOTED ON THE DRAWINGS. THE METAL BUILDING SUPPLIER SHALL PROVIDE FOR REDUCTED DEFLECTION LIMITATIONS AS REQUIRED FOR ATTACHMENT TO OTHER BUILDING COMPONENTS

SHOP AND ERECTION DRAWINGS OF THE METAL BUILDING SYSTEM, BEARING THE SEAL OF A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS ARE TO SUBMITTED TO THE EOR FOR REVIEW PRIOR TO THE PLACEMENT OF FOUNDATIONS. MAXIMUM AND MINIMUM REACTIONS SHALL BE BASED ON THE LOAD COMBINATIONS STIPULATED IN THE IBC 2015 FOR ALL SUPPORTS.

H. THE COLLATERAL LOAD SHALL BE 5 PSF.

### 10. DEFERRED STRUCTURAL SUBMITTALS

A. DEFERRED SUBMITTALS, AS DEFINED BY THE BUILDING CODE, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR. THE DEFERRED SUBMITTALS SHALL BE SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ILLINOIS.

THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF THE DEFERRED SUBMITTAL COMPONENTS OR THE CONNECTION TO THE STRUCTURE. THE DESIGN OF THESE ITEMS IS DELEGATED TO A SPECIALTY ENGINEER WHO SHALL BE ENGAGED BY THE CONTRACTOR. VENDOR, AND/OR SUPPLIER OF THE COMPONENTS AS PART OF THE DEFERRED SUBMITTAL PROCESS.

CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW. AFTER REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER THE CONTRACTOR SHALL SUBMIT THE REVIEWED SUBMITTAL TO THE BUILDING OFFICIAL PER SECTION 107.3 OF THE BUILDING CODE.

D. THE ITEMS LISTED BELOW ARE IDENTIFIED AS DEFERRED SUBMITTALS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS. ALL COSTS ASSOCIATED WITH THE PREPARATION OF THE DEFERRED SUBMITTAL, INCLUDING THE SPECIALTY ENGINEERS DESIGN FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- METAL BUILDING COMPONENTS - TEMPORARY BRACING/SHORING FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION, INCLUDING CONCRETE FORMWORK - METAL STAIRS, LANDINGS, HANDRAILS, AND GUARDRAILS - ANCHORAGE OF EXTERIOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT - ATTACHMENT OF ROOFTOP EQUIPMENT, PIPING, AND DUCTWORK TO THE STRUCTURE

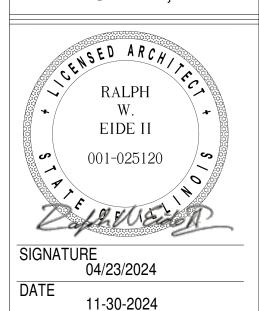
DEFERRED SUBMITTAL COMPONENTS SHALL BE DESIGNED FOR THE LOADS PROVIDED IN SECTION 1 OF THE STRUCTURAL NOTES AND APPLICABLE REQUIREMENTS OF THE REFERENCED BUILDING CODE THEREIN.

GLAZING SYSTEMS (E.G. CURTAINWALL, STOREFRONT, AND WINDOWS)



200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



LICENSE EXPIRES

RMEI OLLE Q O  $\mathcal{C} >$ XE SUNT IUNT DLLEGE E, MOU OLLE VE, N 0 E Z SH VALI SOLLEGE SIS EAST

WAB/ 2200 ILLIN MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: ZDT CJC

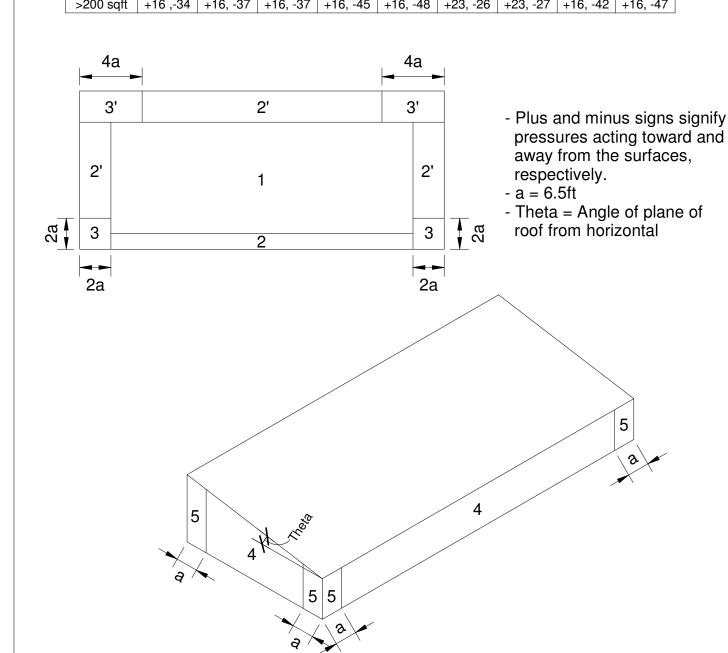
S O O

STRUCTURAL NOTES

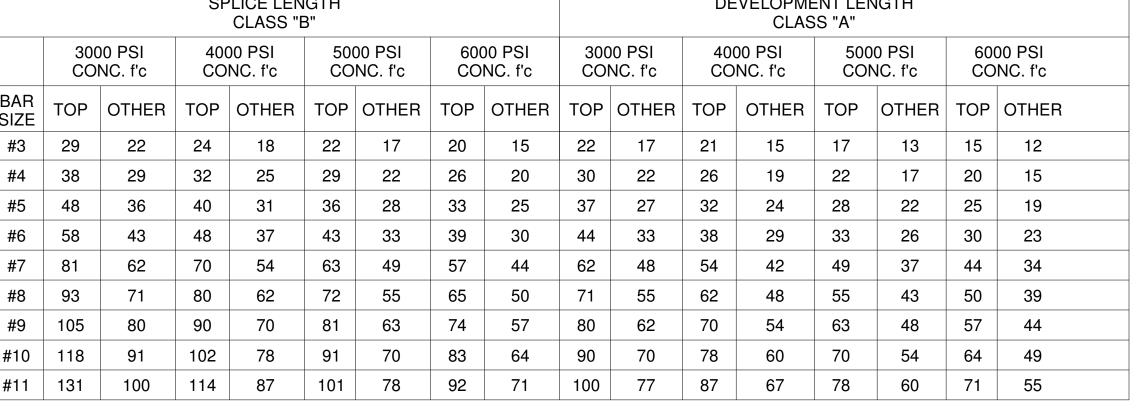
### 9. MISCELLANEOUS:

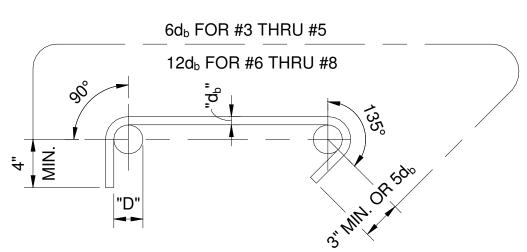
- A. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS, SHOP DRAWINGS, AND WORK.
- NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE
- WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS, AND MATERIALS.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE/SHE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE
- ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK PRECEDES. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- REFERENCE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF
- TYPICAL DETAILS SHALL BE DETERMINED BY THE ARCHITECT/ENGINEER. REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEVIATE FROM CONTRACT DOCUMENTS.

	Wind C&C Pressures (LRFD, psf)												
			Roof			Wa	alls	Overl	nangs				
EWA	Zone 1	Zone 2	Zone 3	Zone 2'	Zone 3'	Zone 4	Zone 5	Zone 2	Zone 3				
<=10 sqft	+16 ,-34	+16, -39	+16, -53	+16, -48	+16, -74	+29, -31	+29, -39	+16, -66	+16, -90				
20 sqft	+16 ,-34	+16, -39	+16, -48	+16, -47	+16, -66	+28, -30	+28, -36	+16, -61	+16, -80				
50 sqft	+16 ,-34	+16, -38	+16, -42	+16, -46	+16, -55	+26, -28	+26, -33	+16, -53	+16, -67				
100 sqft	+16 ,-34	+16, -37	+16, -37	+16, -45	+16, -48	+25, -27	+25, -30	+16, -47	+16, -57				
> 200 caft	.16 24	.16 27	.16 27	.16 15	.16 10	. 22 26	.00 07	.16 /0	.16 /7				



	SPLICE LENGTH CLASS "B"								DEVELOPMENT LENGTH CLASS "A"							
		00 PSI NC. f'c		00 PSI NC. f'c		00 PSI NC. f'c		00 PSI NC. f'c		00 PSI NC. f'c	_	00 PSI NC. f'c		0 PSI NC. f'c		00 PSI NC. f'c
BAR SIZE	TOP	OTHER	ТОР	OTHER	ТОР	OTHER	ТОР	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	ТОР	OTHER
#3	29	22	24	18	22	17	20	15	22	17	21	15	17	13	15	12
#4	38	29	32	25	29	22	26	20	30	22	26	19	22	17	20	15
#5	48	36	40	31	36	28	33	25	37	27	32	24	28	22	25	19
#6	58	43	48	37	43	33	39	30	44	33	38	29	33	26	30	23
#7	81	62	70	54	63	49	57	44	62	48	54	42	49	37	44	34
#8	93	71	80	62	72	55	65	50	71	55	62	48	55	43	50	39
#9	105	80	90	70	81	63	74	57	80	62	70	54	63	48	57	44
#10	118	91	102	78	91	70	83	64	90	70	78	60	70	54	64	49
#11	131	100	114	87	101	78	92	71	100	77	87	67	78	60	71	55





### STANDARD HOOD DETAILS FOR STIRRUPS & TIES

### NOTES:

- ALL SPLICES SHALL BE TENSION LAP SPLICES U.N.O.
- LENGTHS SHOWN ARE FOR GRADE 60 UNCOATED BARS. INCREASE LENGTHS 25% FOR FY=75KSI.
- LENGTHS SHOWN ARE IN INCHES.

SPLICE LENGTHS FOR BARS PLACED

CATEGORY

 $a < d_b$ : any b |  $a > d_b$ : b>3d<sub>b</sub>

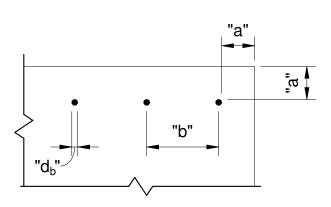
- II

AS FOLLOW CATEGORY:

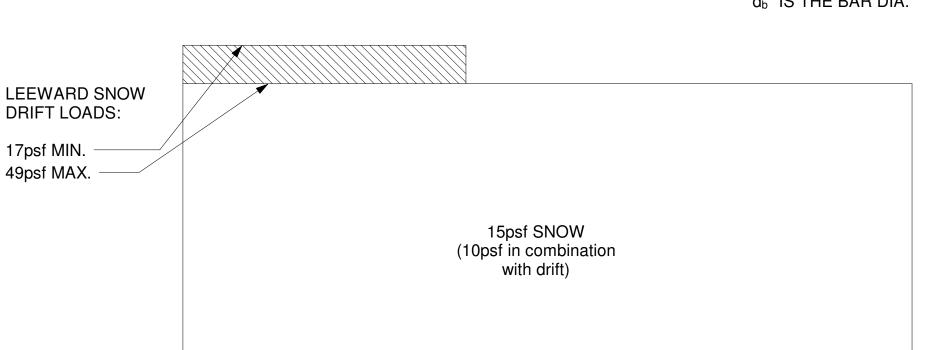
a>d<sub>b</sub>: b<3d<sub>b</sub>

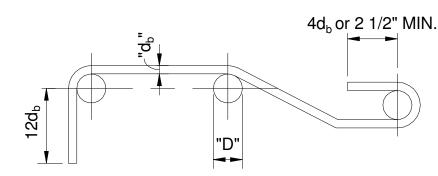
TOP BARS

- INCREASE LENGTHS 30% FOR LIGHT WEIGHT CONCRETE, AT TOP BARS AND AT FOUR BAR BUNDLES (WHERE 2 BARS LAP WITH 2 OTHER BARS) INDIVIDUAL BARS WITHIN A BUNDLE SHALL NOT OVERLAP.
- TOP BARS HORIZONTAL BARS PLACED WITH MORE THAT 12" OF FRESH CONCRETE CAST BELOW THEM.
- INCREASE LENGTHS 50% WHERE a<db OR WHERE b<db FOR BEAMS AND COLUMNS OR WHERE b<2db FOR
- OTHER ELEMENTS. FOR #14 AND #18 BARS, USE MECHANICAL SPLICE IN ACCORDANCE WITH UBC REQUIREMENTS.



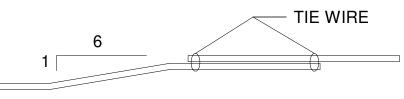
"a" IS THE CLEAR COVER "b" IS THE CLEAR SPACING "d<sub>b</sub>" IS THE BAR DIA.





MIN. BEND DIA. (PRINCIPAL REINF.)  $D = 6d_b$  FOR #3 THRU #8 D = 8d<sub>b</sub> FOR #9 THRU #11 D = 10d<sub>b</sub> FOR #14 THRU #18

### STANDARD HOOD DETAILS FOR PRINCIPAL REINFORCEMENT



### **OFFSET & SPLICE**

IN. BEND DIA. (	STIRRUPS & TIES)
BAR	D
#3	1 1/2"
#4	2"
#5	2 1/2"
#6	4 1/2"

HOOK BAR EMBED LENGTH "Ldh"									
BAR SIZE	4000 PSI CONC. f'c	5000 PSI CONC. f'c	6000 PSI CONC. f'c						
#3	8	7	6						
#4	10	9	8						
#5	12	11	10						
#6	15	13	12						
#7	17	15	14						
#8	19	17	16						
#9	22	20	18						
#10	25	22	20						
#11	27	24	22						



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HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO **NASHVILLE, TN** 



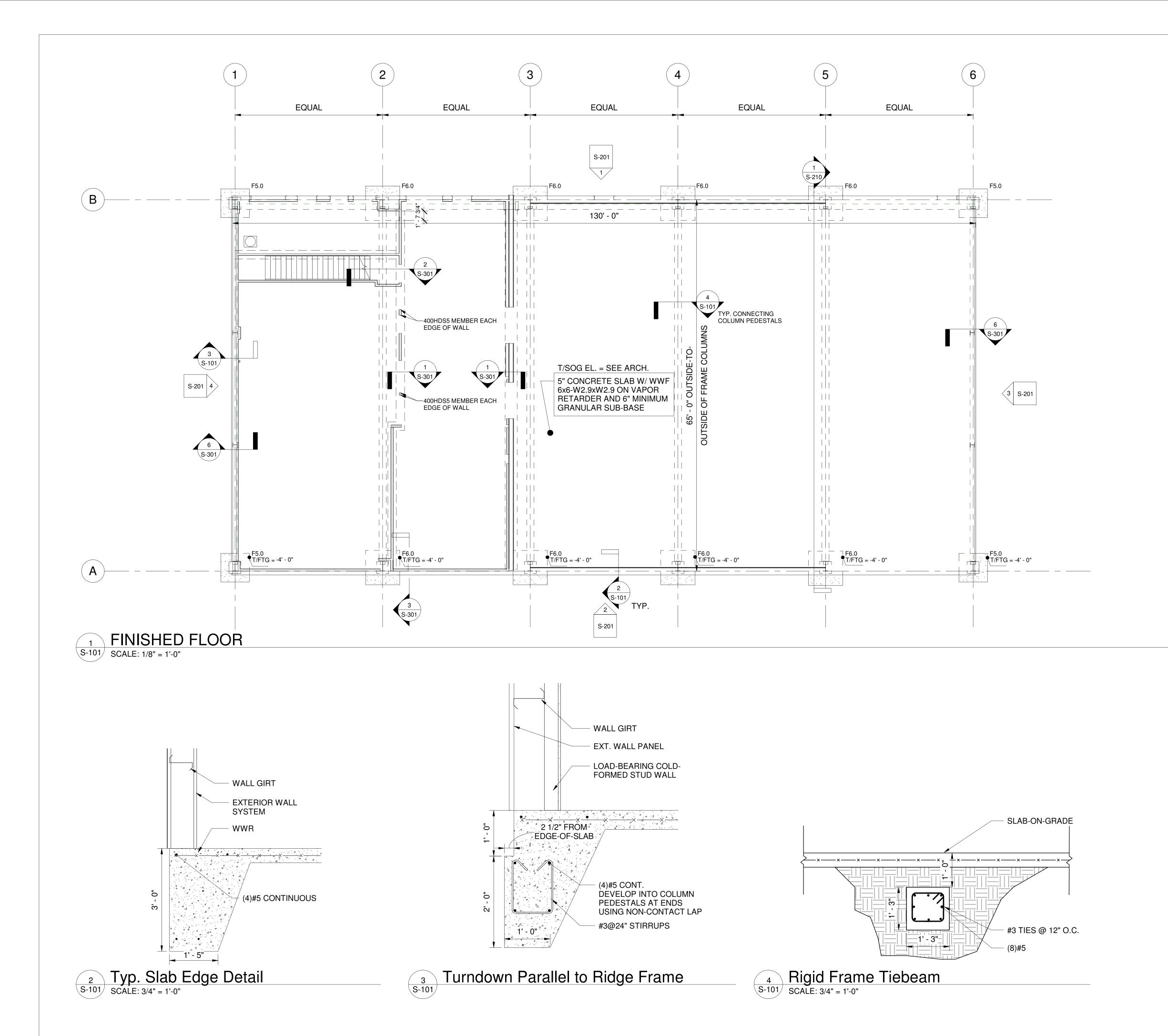
11-30-2024 LICENSE EXPIRES

> - ; 병 ARMEL, COLLE(

WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNITY **ATHLETIC TRAINING FACILITY** 

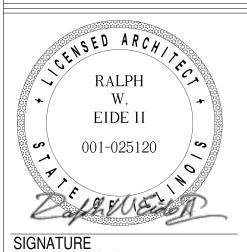
MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: ZDT CJC

STRUCTURAL NOTES





> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04/23/2024

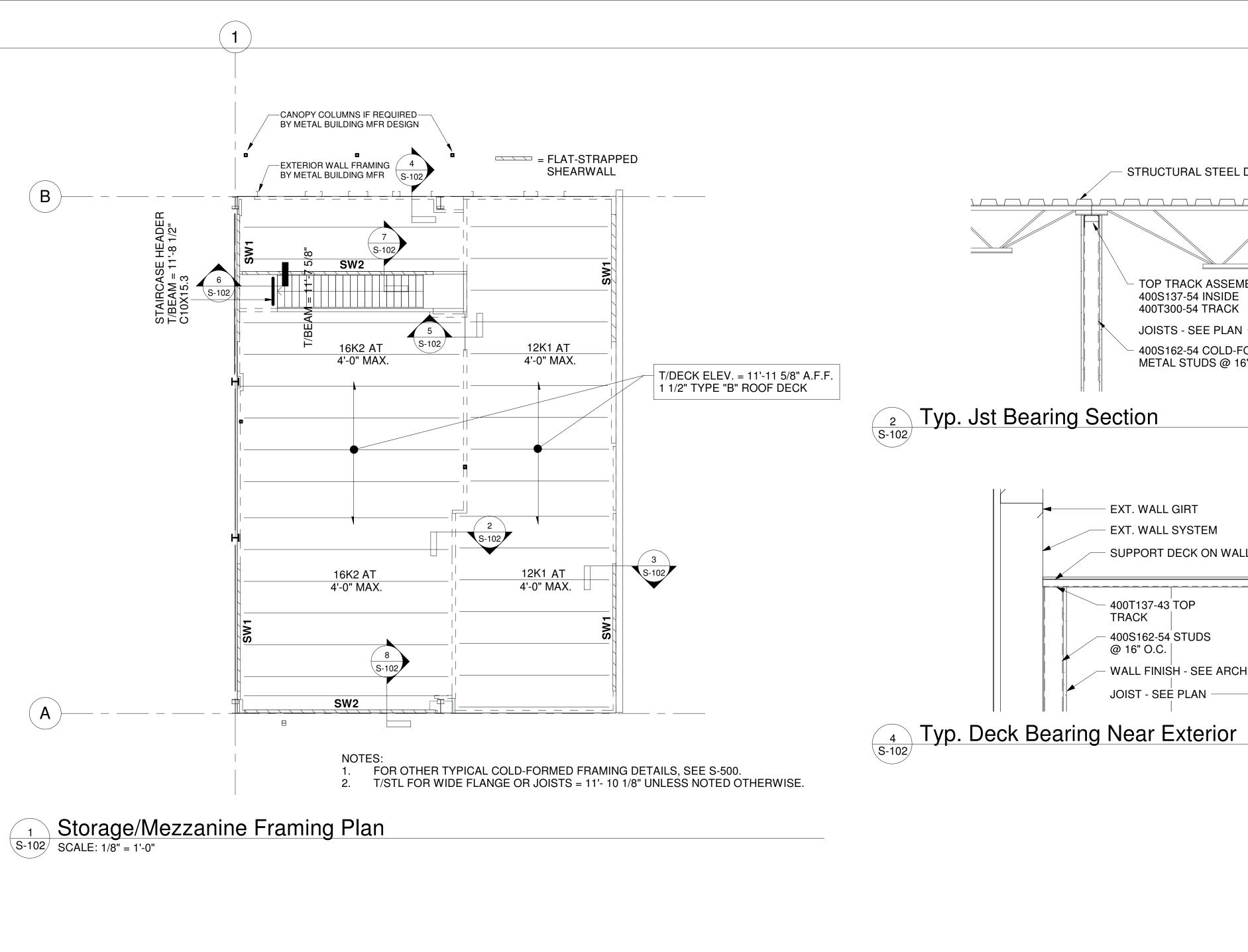
11-30-2024

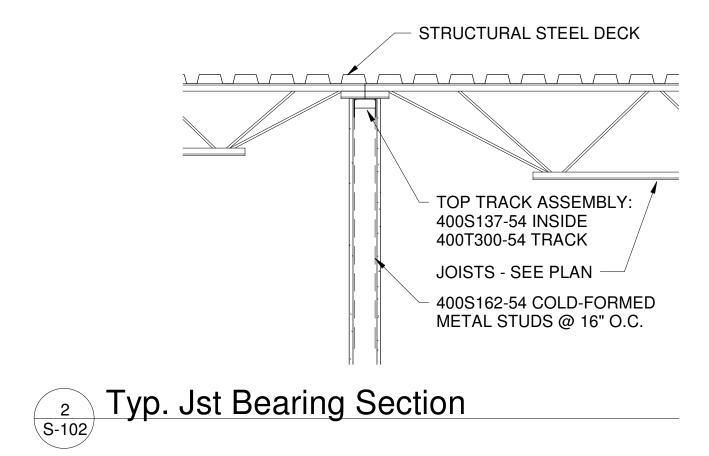
LICENSE EXPIRES

<u>ATHLETIC TRAINING FACILITY</u>
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL
ILLINOIS EASTERN COMMUNITY COLLEGE

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: ZDT ZDT CJC

FOUNDATION PLAN





- EXT. WALL GIRT

400T137-43 TOP

400S162-54 STUDS

JOIST - SEE PLAN

WALL FINISH - SEE ARCH

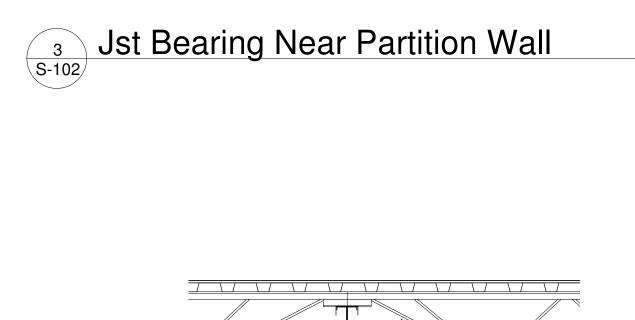
TRACK

@ 16" O.C.

EXT. WALL SYSTEM

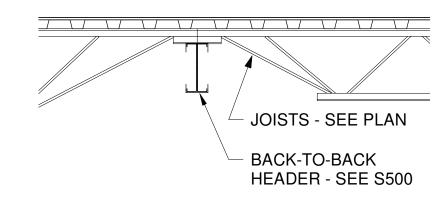
SUPPORT DECK ON WALL



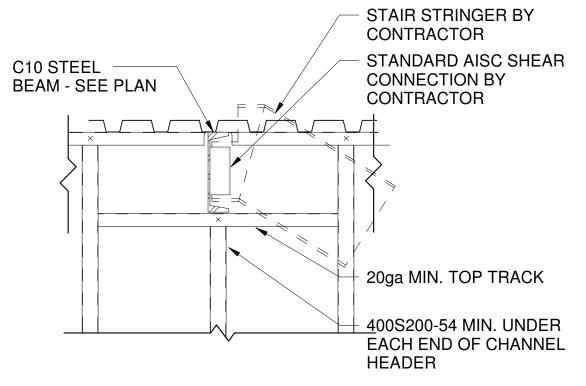


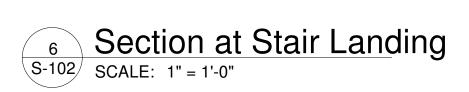
800S162-43 STUDS

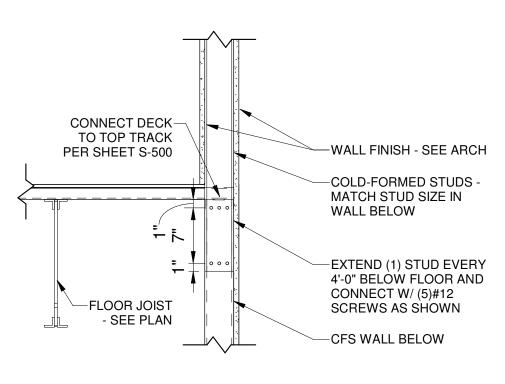
AT 16" O.C.

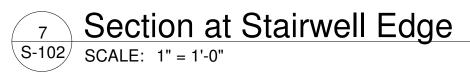


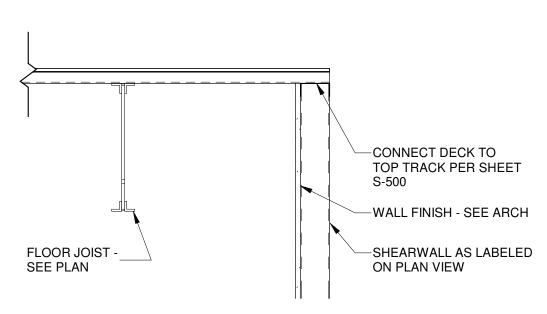
Typ. Header Over Opening











Deck Bearing on SW



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL

EAST ST. LOUIS, IL

SPRINGFIELD, IL

ARNOLD, MO

NASHVILLE, TN

EIDE II

RALPH W

SIGNATURE 04/23/2024

LICENSE EXPIRES

11-30-2024

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DRAWN: CHECK: ZDT CJC

STORAGE PLAN





HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN

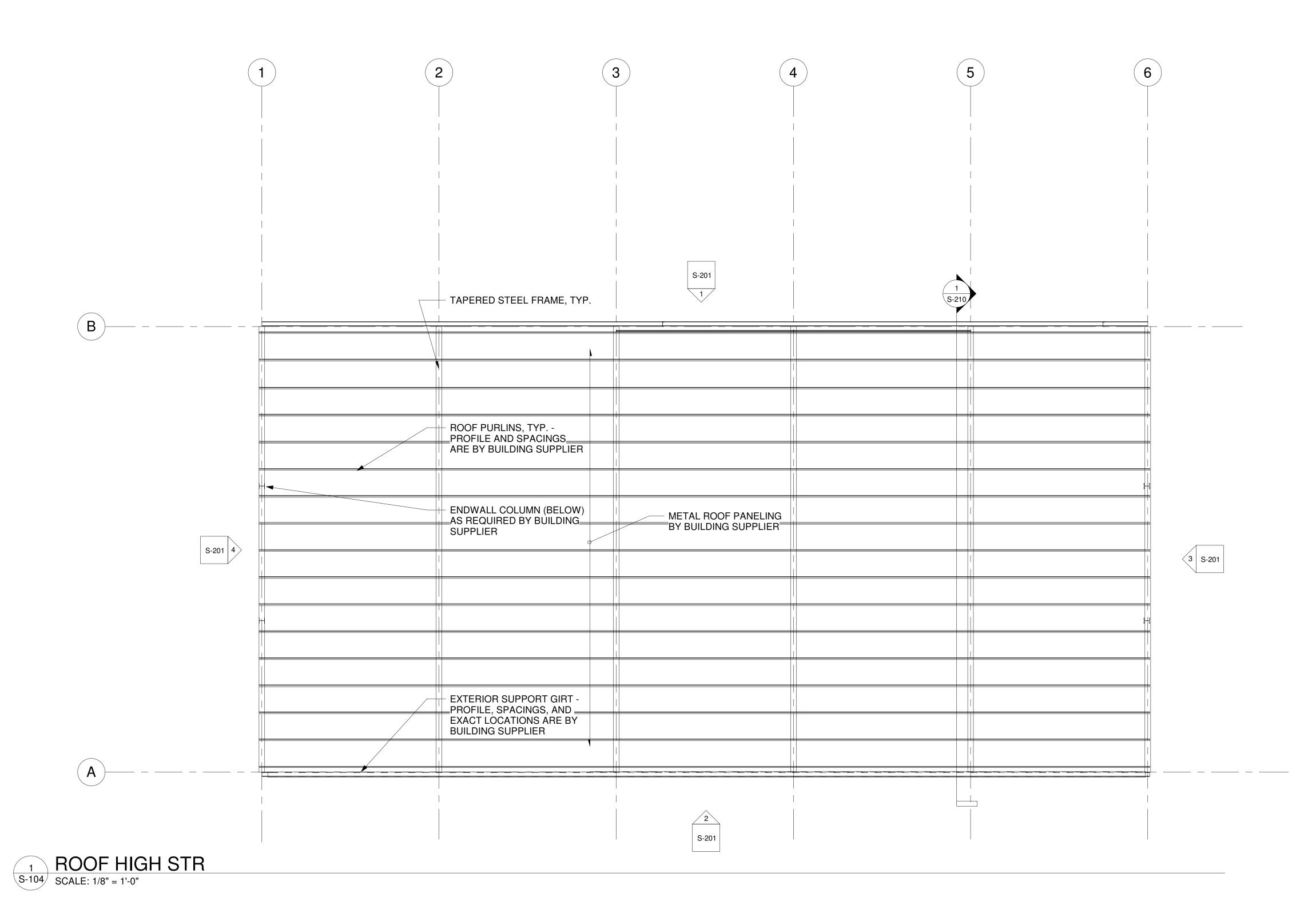


11-30-2024 LICENSE EXPIRES

... 62863 :S WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: ZDT ZDT CJC

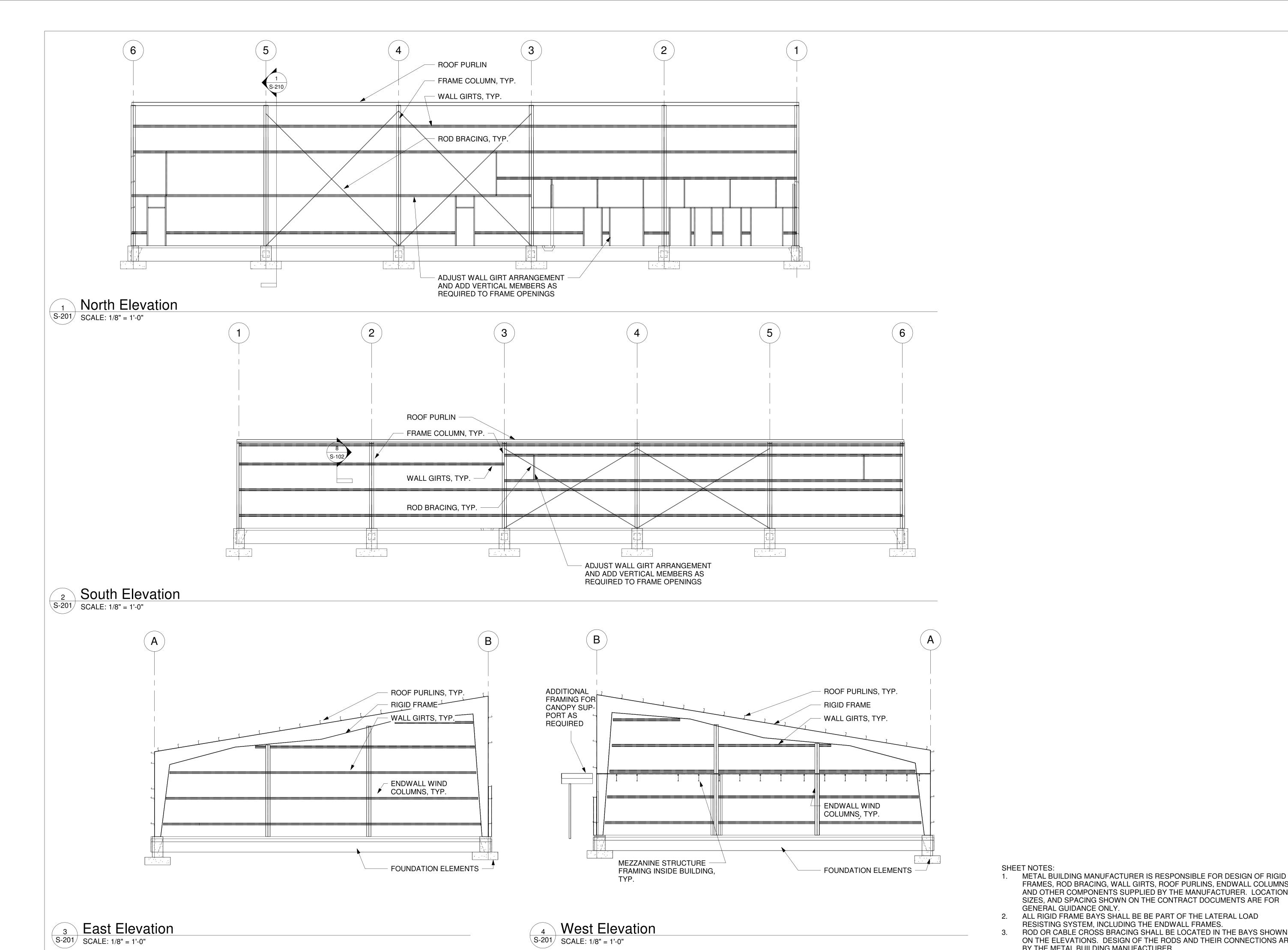
**ROOF PLAN** 



SHEET NOTES:

- 1. METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR DESIGN OF RIGID FRAMES, ROD BRACING, WALL GIRTS, ROOF PURLINS, ENDWALL COLUMNS, AND OTHER COMPONENTS SUPPLIED BY THE MANUFACTURER. LOCATIONS, SIZES, AND SPACING SHOWN ON THE CONTRACT DOCUMENTS ARE FOR GENERAL GUIDANCE ONLY.

  2. ALL RIGID FRAME BAYS SHALL BE BE PART OF THE LATERAL LOAD
  - RESISTING SYSTEM, INCLUDING THE ENDWALL FRAMES.
- ROD OR CABLE CROSS BRACING SHALL BE LOCATED IN THE BAYS SHOWN ON THE ELEVATIONS. DESIGN OF THE RODS AND THEIR CONNECTIONS ARE BY THE METAL BUILDING MANUFACTURER.



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200 N. MARKET STREET MARION, IL PH:618.998.0075

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EIDE II

SIGNATURE 04/23/2024

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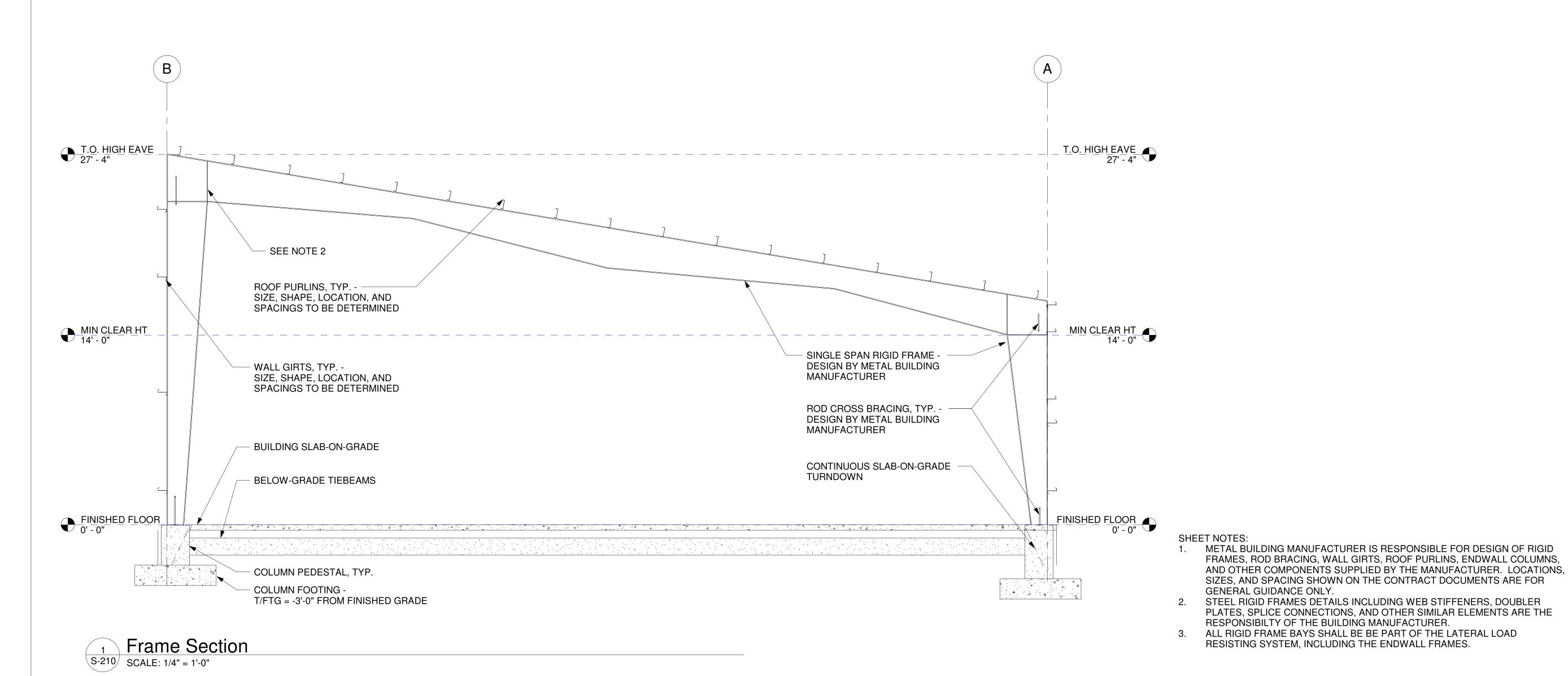
-. 62863 :S WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: ZDT ZDT CJC

STRUCTURAL **EXTERIOR** ELEVATIONS

FRAMES, ROD BRACING, WALL GIRTS, ROOF PURLINS, ENDWALL COLUMNS, AND OTHER COMPONENTS SUPPLIED BY THE MANUFACTURER. LOCATIONS, SIZES, AND SPACING SHOWN ON THE CONTRACT DOCUMENTS ARE FOR GENERAL GUIDANCE ONLY.

ALL RIGID FRAME BAYS SHALL BE BE PART OF THE LATERAL LOAD RESISTING SYSTEM, INCLUDING THE ENDWALL FRAMES. ROD OR CABLE CROSS BRACING SHALL BE LOCATED IN THE BAYS SHOWN ON THE ELEVATIONS. DESIGN OF THE RODS AND THEIR CONNECTIONS ARE BY THE METAL BUILDING MANUFACTURER.



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> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, ÎL ARNOLD, MO NASHVILLE, TN

CENSED ARCHITEC EIDE II

11-30-2024

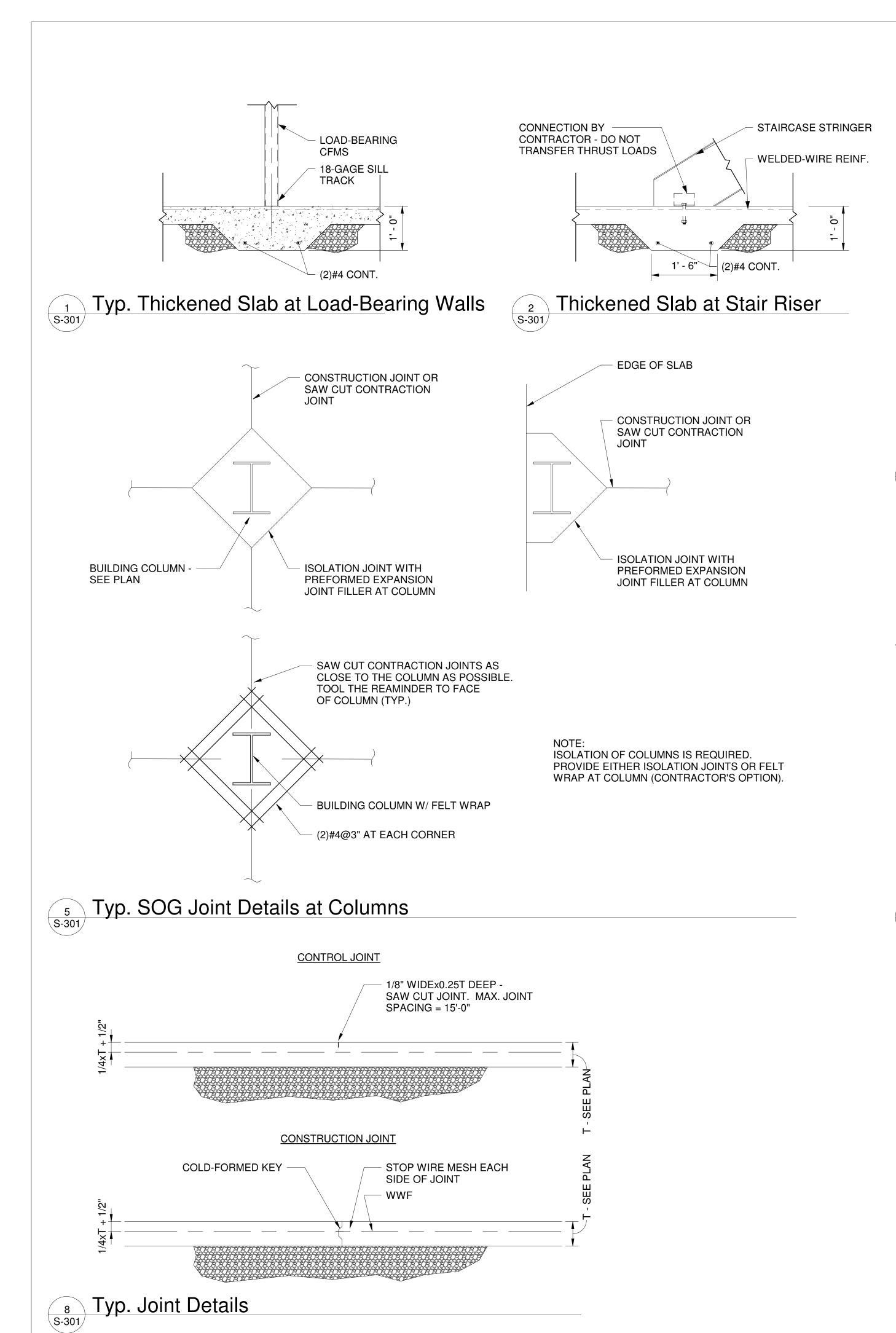
LICENSE EXPIRES

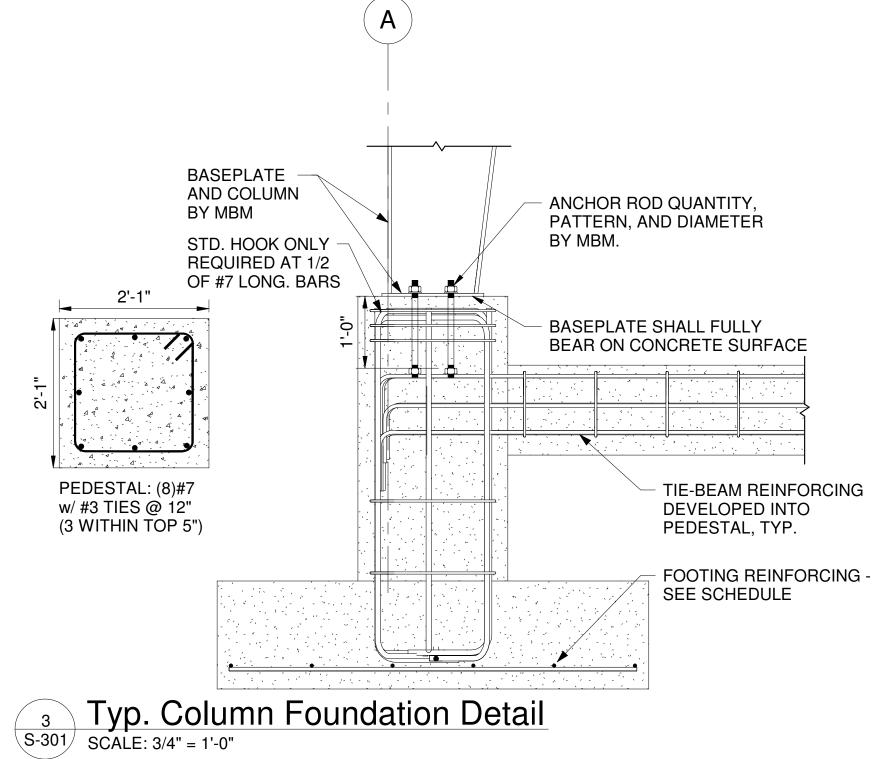
62863 ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL
ILINOIS EASTERN COMMUNITY COLLEGE

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: ZDT ZDT CJC

TYPICAL FRAME ELEVATION





- ENDWALL COLUMN AND

BASEPLATE PER MNFR

BUILDING MNFR

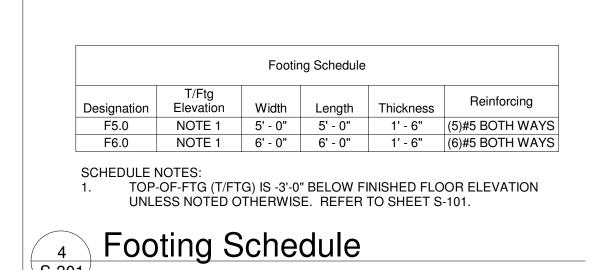
HEADED STUDS OR ANCHOR

**BOLTS AS REQ'D BY METAL** 

(1)#4 HAIRPIN ENCLOSING ÀLL STUDS/ANCHORS \_\_\_

TYP. SLAB REINFORCING

**INFORMATION** 



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

**200 N. MARKET STREET** MARION, IL PH:618.998.0075

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62863

- EXTERIOR <del>- </del> INTERIOR EXTERIOR SLAB-ON-GRADE. SEE CIVIL SHEETS DOOR/STOREFRONT PER 1/2" PJF F.F.E. PER PLAN - #4 @ 1' - 0" O.C. #4 @ 1' - 0" O.C. TYP. BUILDING EDGE FOUNDATION - SEE S101 SEE S-101

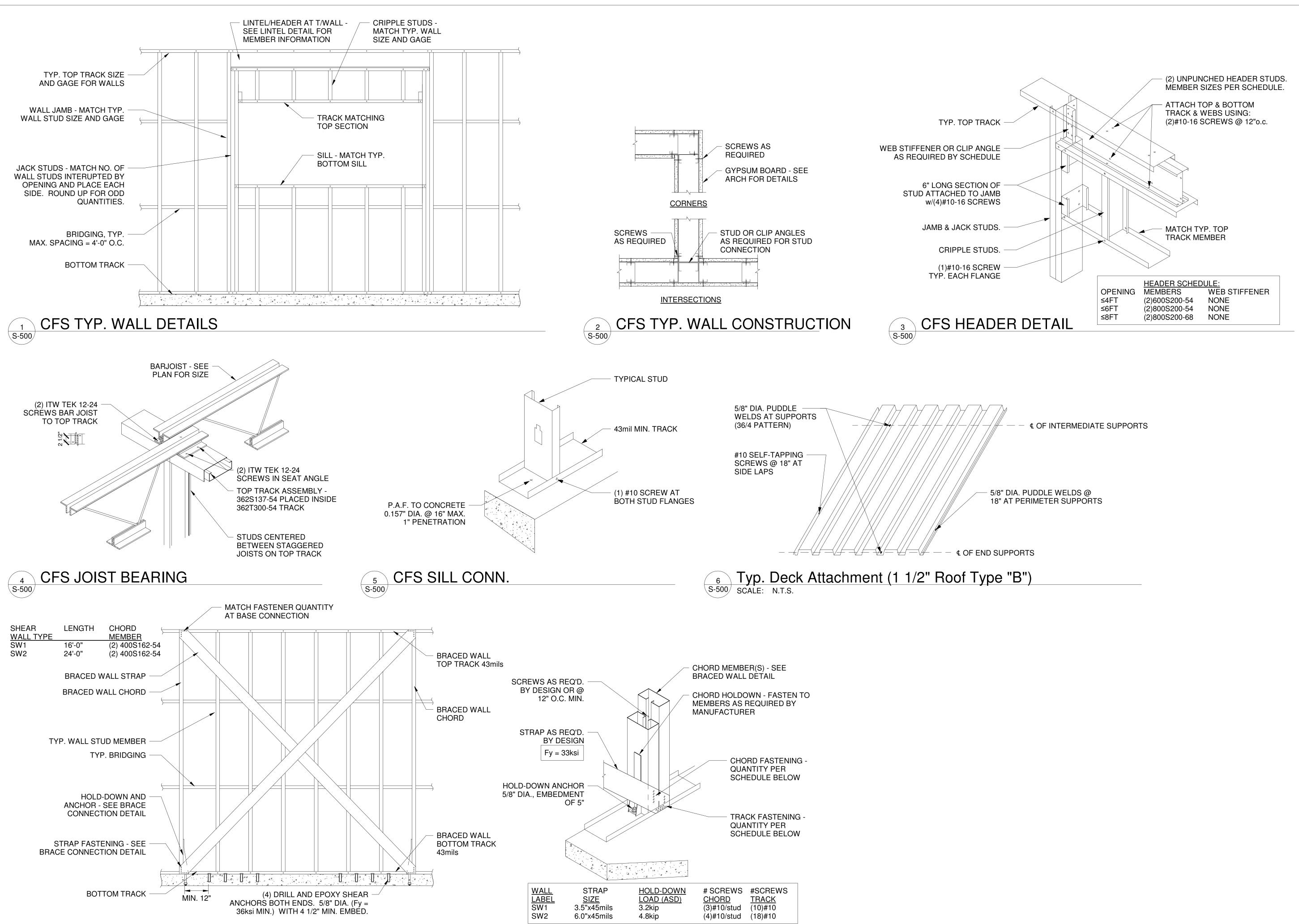
REFER TO TYP. SLAB EDGE DETAILS FOR REINFORCING Typ. Endwall Column Anchorage

Typical Threshold Detail w/ Stoop

WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DRAWN: CHECK: ZDT CJC

FOUNDATION DETAILS



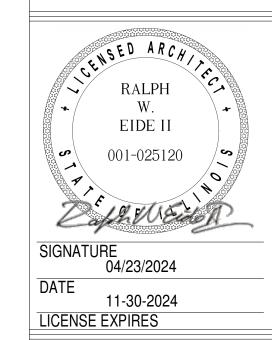
CFS BRACE CONNECTION

9 TYP. STRAP BRACED WALL DETAILS

HURST-ROSCHE, Inc.
PROFESSIONAL DESIGN NUMBER: 184-000298

200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



<u>ATHLETIC TRAINING FACILITY</u> WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 628 ILLINOIS EASTERN COMMUNITY COLLEGES

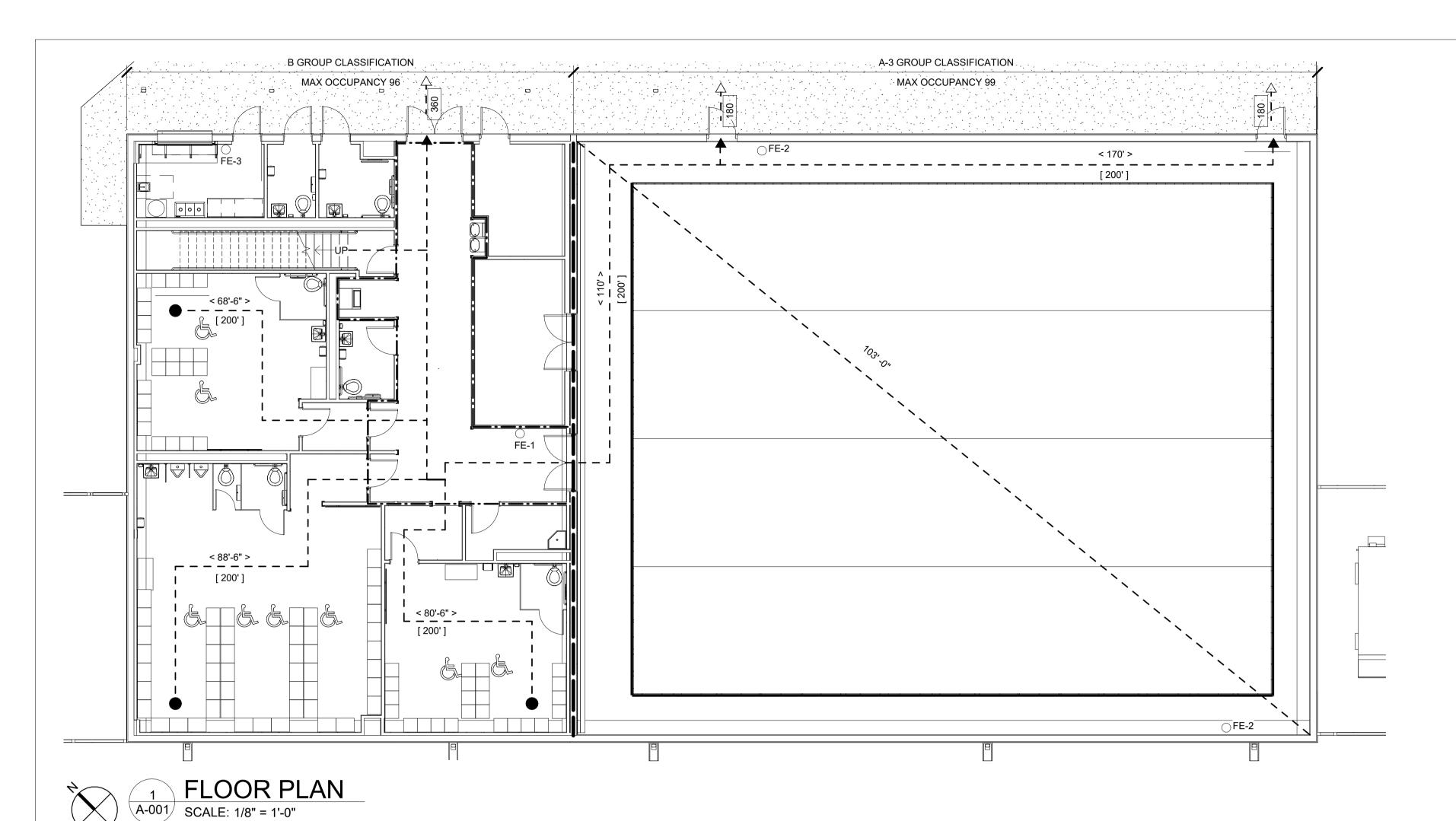
MARK DATE DESCRIPTION

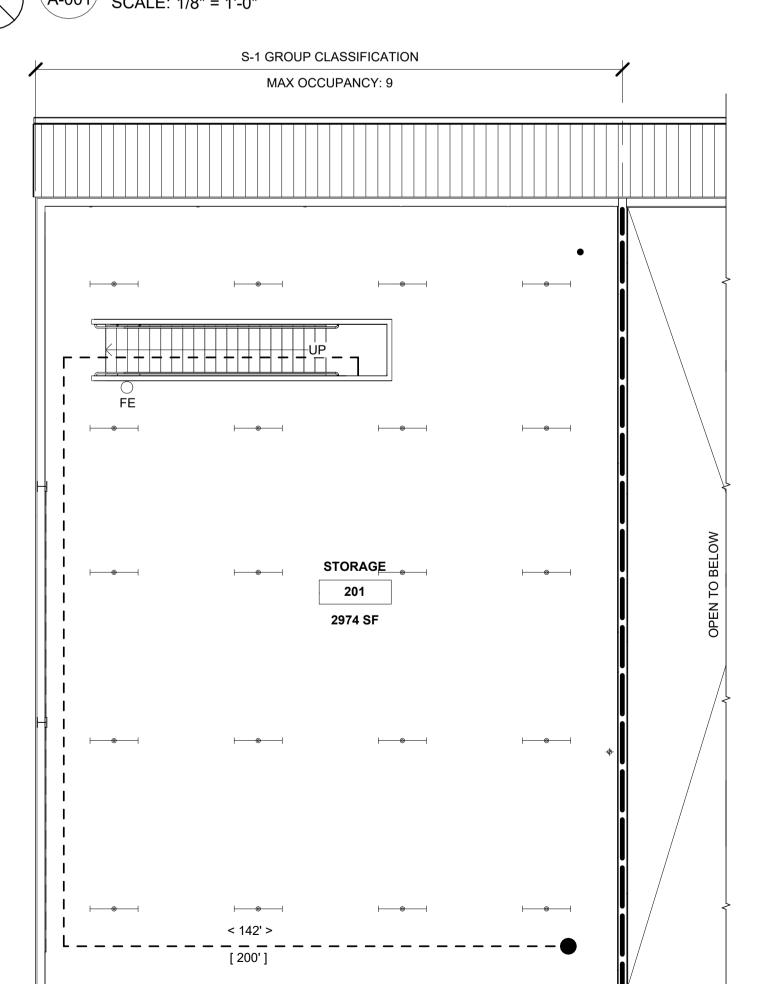
DATE: 04/23/2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: ZDT ZDT CJC

TYP. COLD-FORMED FRAMING DETAILS





### PLUMBING FIXTURE COUNT

ACCORDING TO SECTION 890.810 PARAGRAPH 2 OF THE ILLINOIS PLUMBING CODE (2014), THE MINIMUM NUMBER OF PLUMBING FIXTURES REQUIRED IS DEPENDENT UPON THE BUILDING'S ESTIMATED TOTAL OCCUPANT LOAD.

BASED ON ANALYSIS OF THE LOCKER ROOMS, THE ESTIMATED OCCUPANT LOAD OF THE ATHLETIC FACILITY WILL BE 99 PERSONS.

FEMALE:

3 REQ'D/ 3 PROVIDED

2 REQ'D / 2 PROVIDED

### SCHOOLS - STUDENT USE: COLLEGES

	MALE:
WATER CLOSET:	2 REQ'D/ 2 PROVIDED
URINAL:	2 REQ'D/ 2 PROVIDED
LAVATORIES:	2 REQ'D/ 2 PROVIDED

2 REQ'D/ 2 PROVIDED DRINKING FOUNTAINS: SERVICE SINK: 1 REQ'D/ 1 PROVIDED

### **CODES & STANDARDS**

- 2006 INTERNATIONAL BUILDING CODE
- 2008 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- **CURRENT EDITION ILLINOIS PLUMBING CODE**
- 2006 INTERNATIONAL MECHANICAL CODE **CURRENT EDITION - ILLINOIS ACCESSIBILITY CODE**
- 2006 INTERNATIONAL FIRE PROTECTION CODE
- NFPA 101 LIFE SAFTEY CODE 2015
- 2010 AMERICAN WITH DISABILITES ACT

### **Building Requirements** OR TABLE REQUIRED/ALLOWED ACTUAL **CODE SUBJECT** OCCUPANCY CLASSIFICATION OCCUPANCY CATEGORY B/A-3/S-1 1.01.a IBC 2006 CH. 3 OCCUPANCY LOAD 1.01.b IBC 2006 T -1004.1.1 1.02 HEIGHT/AREA LIMITATIONS 1.02.a HEIGHT IN FEET IBC 2006 1.02.b NUMBER OF STORIES IBC 2006 T-503 3026 1.02.c IBC 2006 T-503 BUILDING AREA - B 23000 1.02.d 5185 **BUILDING AREA - A-3** IBC 2006 T-503 9500 1.02.e BUILDING AREA - S IBC 2006 SEC.503 17500 **BUILDING AREA - MIXED-USE** (A-3) 5185/9500 = .52 + .85 < 1 IBC 2006 SEC.506.2.2, (B) 3026/23000 = .19 + 508.3.3.2 (S) 2985/17500 = .15REQUIRED SEPARATION OF IBC 2006 T-508.3.3 A:B = 2 HR, B:-S-1 = 0 2 hr. OCCUPANCIES 1.03 TYPE OF CONSTRUCTION TYPE 2B IBC 2006 CH. 6 REQUIRED HOURS OF FIRE RESISTANCE 1.04.a T-601 PRIMARY STRUCTURAL FRAME IBC 2006 1.04.b INTERIOR BEARING WALLS IBC 2006 T-601 INTERIOR NONBEARING WALLS AND IBC 2006 T-601 PARTITIONS FLOOR CONSTRUCTION AND IBC 2006 ASSOCIATED STRUCTURAL MEMBERS ROOF CONSTRUCTION AND IBC 2006 T-601 ASSOCIATED SECONDARY STRUCTURAL **MEMBERS** 1.05 FIRE AND SMOKE PROTECTION FIRE-RESISTANCE RATING FOR IBC 2006 T - 705.5 EXTERIOR WALLS < 30' DOOR AT 2-HOUR WALL IBC 2006 T - 715.4 1.5 hr 1.05.c DOOR AT EXTERIOR WALL T -716.1(2) IBC 2006 EXIT ACCESS 1.06 IBC 2006 1.06.a OCCUPANT LOAD t-1004.1.1 MINIMUM EGRESS - CORRIDOR 1.06.b IBC 2006 SEC.1005.3.2 99 x 0.2"/occupant - 21 inches, OR 44" min. IBC 2006 T - 1019.1 OL 1-500: 2 MINIMUM NUMBER OF EXITS MAXIMUM COMMON PATH OF EGRESS IBC 2006 T - 1016.1 200 TRAVEL DISTANCE EXIT DOOR CAPACITY IBC 2006 SEC. 1005.3.2 96\*.2 =19.2 in DISTANCE BETWEEN TWO EXIT DOORS IBC 2006 SEC. 1007.1.1 X > 103/2=51.5' PORTABLE FIRE EXTINGUISHERS HAZARD CLASSIFICATION IBC 2006, NFPA T--906.3(1) Ordinary Hazard Classification, Cooking Equipment 1.07.b MINIMUM-RATED SINGLE EXTINGUISHER IBC 2006, NFPA 2-A, Class K-rated in 4A-80B:C Concession Class K rated 5185 SF MAXIMUM FLOOR AREA PER 11,250 SF/1

### **CODE PLAN LEGEND**

**EXTINGUISHER** 

75 Feet

75 FEET

EXIT (NUMBER INDICATES CAPACITY) <x'> ACTUAL LENGTH OF EXIT

**EXTINGUISHER** 

**EXTINGUISHER** 

107.d MAXIMUM DISTANCE OF TRAVEL TO IBC 2006, NFPA

[x'] MAXIMUM ACCESS TRAVEL DISTANCE 1 HR FIRE RESISTANCE RATING

2 HR RATED FIRE BARRIER (FIRE AREAS)

FIRE EXTINGUISHERS - SEMI-RECESSED CABINET - TYPE 1 EXTINGUISHER

FIRE EXTINGUISHERS - WALL-MOUNT - TYPE 1 EXTINGUISHER FE-2

FIRE EXTINGUISHERS - WALL-MOUNT - TYPE 2 EXTINGUISHER

### **ADA COMPLIANCE**

FE-3

ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 225.2.1.10, WHERE LOCKERS ARE PROVIDED, AT LEAST 5 PERCENT, BUT NO FEWER THAN ONE OF EACH TYPE OF LOCKER SHALL BE PROVIDED AS ACCESSIBLE.

24 SINGLE-TIER LOCKERS X 0.05 = 2 LOCKER REQUIRED IN LOCKER ROOMS 102 AND 104. 48 SINGLE-TIER LOCKERS X 0.05 = 4 LOCKER REQUIRED IN LOCKER ROOM 103

ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 803.4 A BENCH COMPLYING WITH SECTION 903 SHALL BE PROVIDED WITHIN THE ROOM.

ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 206.2.3, ITEM 8, AN ACCESSIBLE ROUTE IS NOT REQUIRED FOR SPACES GREATER THAN 1.000 SQUARE FEET BUT LESS THAN 3,000 SQUARE FEET IN AREA THAT ARE USED EXCLUSIVELY FOR ARCHIVAL STORAGE OR FOR PRODUCT STORAGE IN A BUSINESS OR MERCANTILE OCCUPANCY.

ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 602.1, DRINKING FOUNTAINS FOR STANDING PERSONS COMPLYING WITH 307 AND 602 SHALL BE 38 INCHES (965 mm) MINIMUM AND 43 INCHES (1090 mm) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

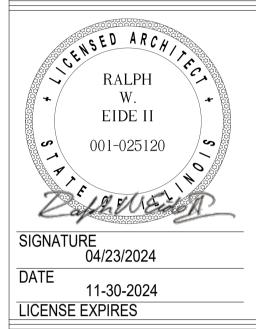
ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 307, DRINKING FOUNTAINS AS PROTRUDING OBJECTS SHALL HAVE A 27" MINIMUM KNEE CLEARANCE ABOVE THE FINISH FLOOR OR GROUND.

ACCORDING TO ILLINOIS ACCESSIBILITY CODE (2018), SECTION 307, DRINKING FOUNTAINS AS PROTRUDING OBJECTS MUST BE RECESSED IN ALCOVES OR OTHERWISE TREATED SO THAT THEY DO NOT PROTRUDE MORE THAN 4" INTO CIRCULATION PATHS. ALCOVES MUST BE SIZED TO ACCOMMODATE THE CLEAR FLOOR SPACE REQUIRED AT THE WHEELCHAIR ACCESSIBLE UNITS.



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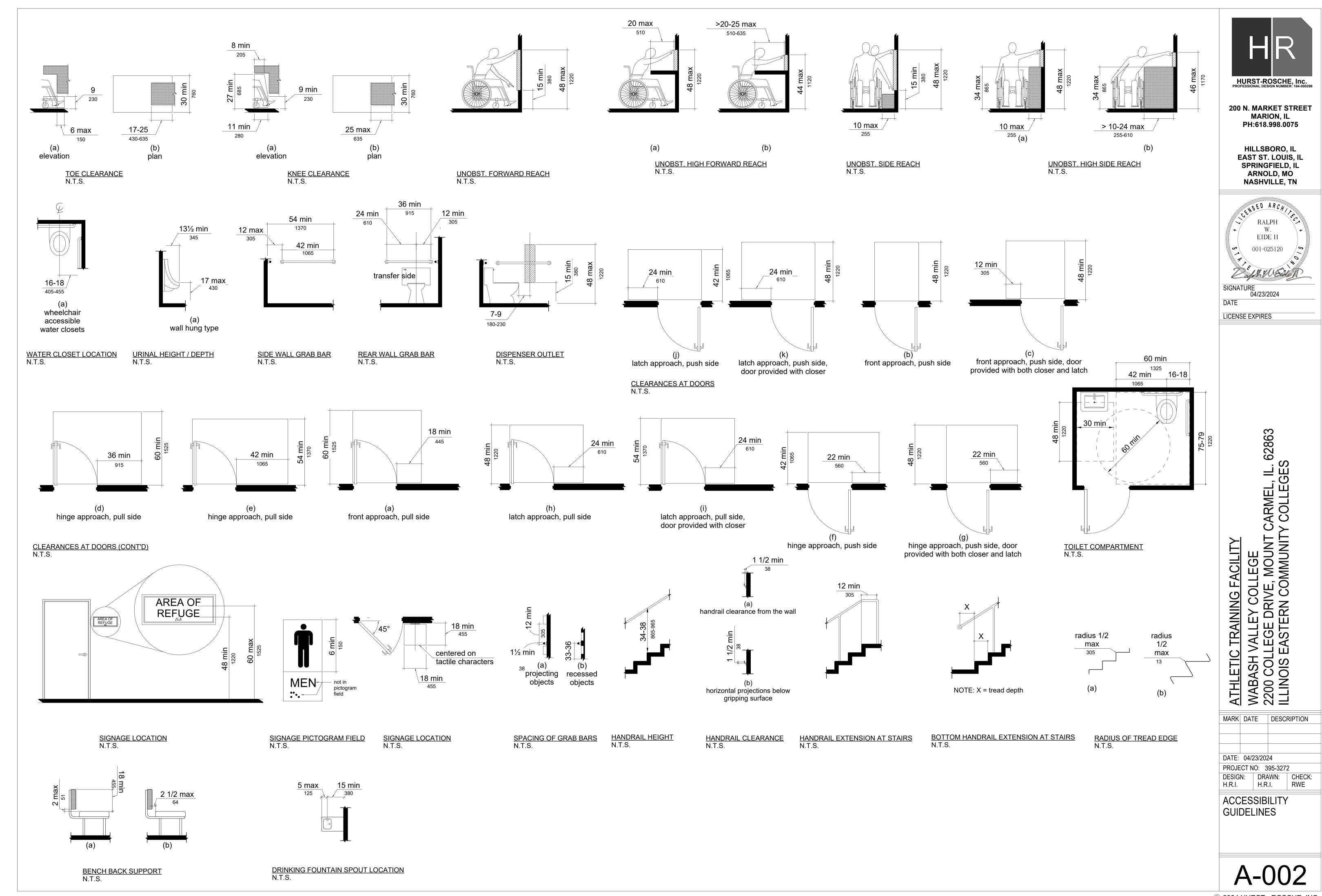
HILLSBORO, IL **EAST ST. LOUIS, IL** SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN

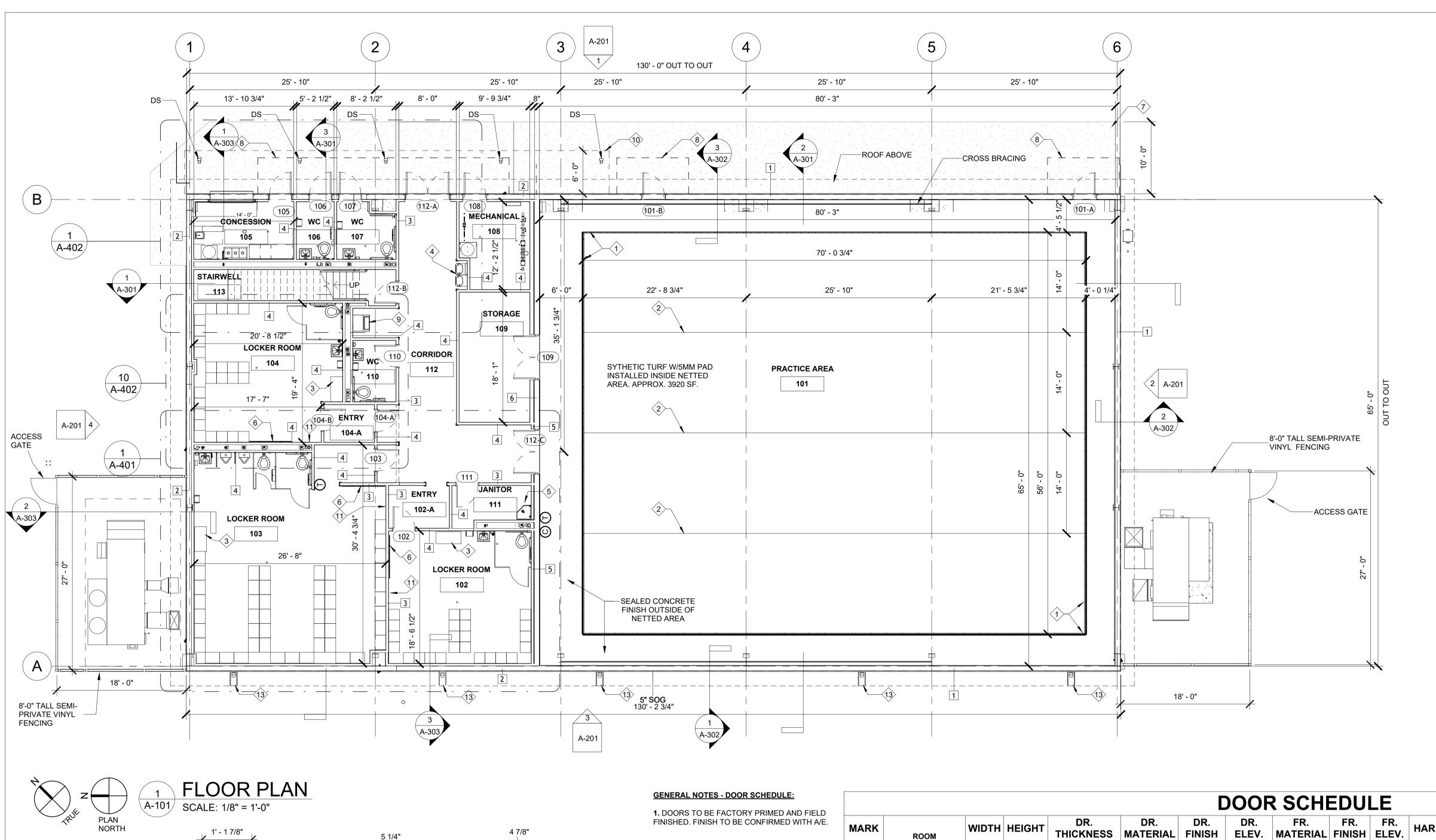


62863 ARMEI COLLE WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT **TRAINING ATHLETIC** 

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. H.R.I. RWE

**CODE ANALYSIS** 





### ARCHITECTURAL GENERAL NOTES

- PLAN DIMENSIONS ARE TO FACE OF STUD OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS - USE DIMENSIONS.
- PLAN DIMENSIONS NOTED "WF" INDICATE THAT THIS DIMENSION IS TO WALL FINISH, RATHER THAN FACE OF STUD.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR THE SAME.
- CONTRACTOR TO ADJUST WALL PLACEMENT TO ACCOMMODATE STRUCTURE AS NECESSARY. COMPLY WITH ALL APPLICABLE
- ALL DRAWINGS ARE FOR INFORMATIONAL PURPOSES.
- ALL GYP. BD. IN LOCKER ROOMS & TOILETS TO BE MOLD/MOISTURE RESISTANT.

CODES AND REGULATIONS.

- PITCH FLOORS TO DRAIN AT LOCKER ROOMS, TOILET ROOMS,
- IF CANOPY AS SHOWN CAN BE SUPPORTED BY THE PRE-ENGINEERED METAL BUILDING, STEEL CANOPY SUPPORTS AND THEIR FOUNDATIONS MAY BE OMITTED.
- COLUMNS SHOWN TO ILLUSTRATE SUGGESTED PLACEMENT IF REQUIRED TO SUPPORT CANOPY.

CONCESSION AREA, JANITOR'S CLOSET, AND MECHANICAL ROOM.

- GC TO COORDINATE LOCATION OF STRUCTURAL STOOPS TO ALIGN WITH SIDEWALK CUT JOINTS.
- ALL INTERIOR EXPOSED WALL CORNERS AND END OF WALLS TO RECEIVE CORNER GUARD/END-OF-WALL PROTECTION. FOR MORE INFORMATION SEE SPEC. # 10 26 00
- DOWNSPOUTS NOT TO EXPEL ONTO SIDEWALK. GC TO PROVIDE UNDERGROUND CONNECTION WITH DAYLIGHTING BEYOND THE SIDEWALK.

<b>#</b> >	KEYED NOTES	
Note		
Number	Note Content	
1	STATIC PERIMETER NETTING	
2	WALK-DRAW DIVIDER CURTAIN	
3	ADA BENCH - TO BE INSTALLED PER ADA REQUIREMENTS.	
4	DRINKING FOUNTAIN WITH BOTTLE FILLER - SEE P SHEETS FOR MORE INFORMATION	
5	CORNER MOP SINK SEE P-SHEETS FOR MORE INFORMATION	
6	6'-0" X 4'-0" MARKER BOARD - FOR MORE INFORMATION SEE SPEC. 10 00	11
7	SIDEWALK - SEE 6/ A-501, C-SHEETS FOR MORE DETAILS	
8	STRUCTURAL STOOP - SEE DETAIL 7/S-301, 6/A-501	
9	ICE MAKER - FOR MORE INFORMATION SEE SPEC. 11 40 00	
10	CANOPY BY PEMB MANUFACTURER	
11	NOT USED ON THIS PAGE ED	
12	NOT USED	
13	DOWNSPOUT W/SPLASH BLOCK - FOR MORE INFORMATION SEE SPEC	

PROVIDE SERVICE ACCESS PANEL FOR WATER HAMMER ARRESTORS.

GC TO COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR

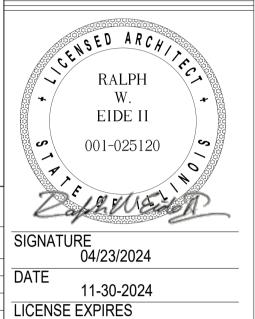
#03 48 16

HARDWARE LABEL HEAD JAMB SILL SIGN



200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



62863

ARMEL, COLLE( WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT FACILITY ATHLETIC

COMMENT

1 GL-2

MARK DATE DESCRIPTION

DATE:	04/2	23/202	24			
PROJE	CT N	IO: 3	95-327	2		
DESIG	N:	DRA	WN:	CHECK:		
H.R.I.		H.R	1	RWE		
1 1.1 \.1.		11.1		1111		
FLO	$\cap$ R	PI	ΔN			
I LOOK I L/ (IV						

A-101

FINISHED. FINISH TO BE CONFIRMED WITH A/E.

### **DOOR LABEL - DOOR SCHEDULE:** B= 90 MINUTE FIRE PROTECTION

C = 45 MINUTE FIRE PROTECTION

<u> COMMENTS - DOOR SCHEDULE:</u> 1. THERMALLY BROKEN

### INTERIOR SIGN SCHEDULE - DOOR SCHEDULE: PROVIDE ADA ROOM IDENTIFICATION SIGNAGE - 4" x 6"- ROOM NUMBER

PROVIDE ADA REGULATORY SIGNAGE -8" X 6" - ROOM NUMBER - PICTOGRAM -SYMBOL OF ACCESSIBILITY.

### **GLAZING SCHEDULE** See Spec Section 08 80 00 for more information.

GL-1 - 1" INSULATED GLASS UNIT

GL-2 - SAFTEY GLASS

**GENERAL NOTES - ROOM FINISH SCHEDULI** GL- 3 - FIRE RATED GLASS

WIDTH | HEIGHT

3' - 0" 7' - 0"

3' - 0" 7' - 0"

3' - 0" 7' - 0"

6' - 0" 7' - 0"

3' - 0"

3' - 0"

3' - 0"

7' - 0"

7' - 0"

7' - 0"

7' - 0"

7' - 0"

7' - 0"

MARK

101-B

102

103

104-B

112-A

112-B

112-C

ROOM PRACTICE AREA

PRACTICE AREA

**LOCKER ROOM** 

**LOCKER ROOM** 

CORRIDOR

LOCKER ROOM

CONCESSION

**MECHANICAL** 

STORAGE

**JANITOR** 

CORRIDOR

CORRIDOR

### ABBREVIATIONS ROOM FINISH SCHEDULE: ACT-1 ACOUSTIC CEILING TILE: TYPE 1 ACT-2 ACOUSTICE CEILING TILE: TYPE 2

**THICKNESS** 

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

0' - 1 3/4"

MATERIAL

HM.

HM.

HM.

HM.

**FINISH** 

HM.

HM.

HM.

HM.

HM.

PT.

(2) B

FLS FABRIC INSULATION LINER SYSTEM GYP. GYPSUM BOARD PAINT R.B. RUBBER BASE

SEALER

TURF SYNTHETIC GRASS SURFACING

NUMBER	ROOM	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	FLOOR FINISH	BASE FINISH	CEILING FINISH	CEILING HEIGHT
101	PRACTICE AREA	GYP/PT	LINER PANEL	LINER PANEL	LINER PANEL	SL. /TURF	RB	FLS.	VARIES
102	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
102-A	ENTRY	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8' - 6"
103	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
104	LOCKER ROOM	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
104-A	ENTRY	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8' - 6"
105	CONCESSION	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
106	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
107	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
108	MECHANICAL	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	N/A	8' - 6"
109	STORAGE	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8' - 6"
110	WC	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-1	8' - 6"
111	JANITOR	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8' - 6"
112	CORRIDOR	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	ACT-2	8' - 6"
113	STAIRWELL	GYP/PT	GYP/PT	GYP/PT	GYP/PT	SL.	RB	N/A	N/A
201	STORAGE	FLS.	FLS.	GYP/PT	FLS.	PT.		FLS	VARIES

**ROOM FINISH SCHEDULE** 

-AVP EXTERIOR

METAL PANEL

3 5/8" METAL

—STUDS @ 16"

5/8" TYPE-X

GYP. BD.

O.C.

-INSULATION SYSTEM

-BATT INSULATION

—4" METAL STUDS

-5/8" TYPE-X

EACH SIDE

@ 16" O.C.

- REFER TO DRAWINGS FOR LOCATION

TERMINATES AT STORAGE

LEVEL METAL DECKING

-4" DATA CONDUIT

-6" METAL STUDS @

\_\_\_5/8" TYPE-X GYP. BD.

-WALL CONSTRUCTION

GYP. BD.

-BATT INSULATION

-5/8" TYPE-X

EACH SIDE

-3 5/8" METAL

O.C.

STUDS @ 16"

GYP. BD.

-AVP EXTERIOR

METAL PANEL TYP.

-INSULATION SYSTEM

-8" BYPASS GIRT

-FLAT PROFILE

LINER PANEL

METAL INTERIOR

TERMINATES AT STORAGE

LEVEL METAL DECKING

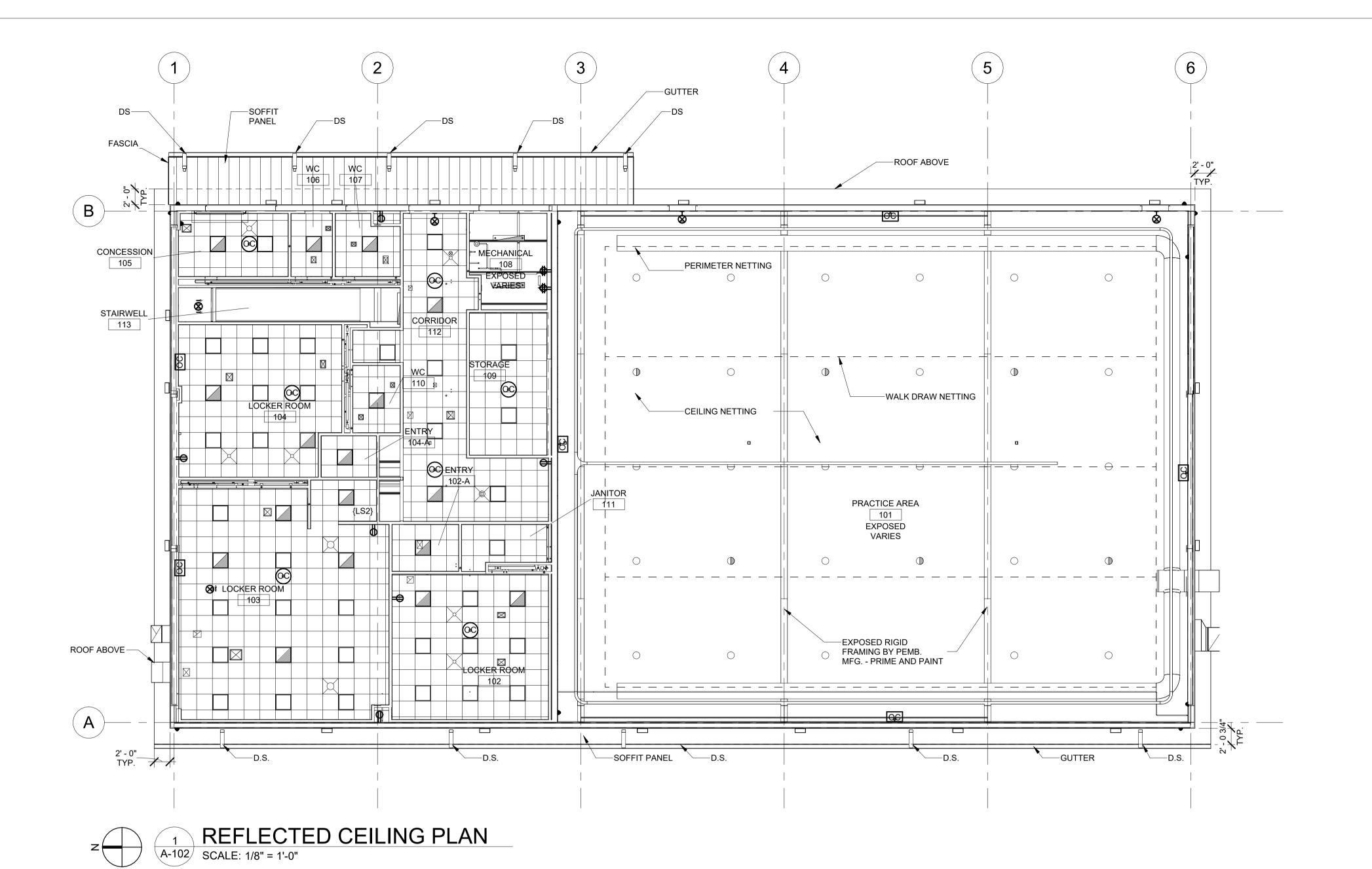
-8" METAL STUDS @

-4" METAL STUDS @

-5/8" TYPE-X GYP. BD.

-(2) 5/8" TYPE-X GYP.

BD. EACH SIDE



PLAN NORTH **GENERAL NOTES** 

- FOR STRUCTURAL INFORMATION SEE S- SHEETS.
- FOR HEATING, VENTILATION, AND COOLING SYSTEMS INFORMATION SEE V-SHEETS.
- FOR PLUMBING INFORMATION SEE P-SHEETS.
- 2'-0" X 2'-0" ACT SYSTEM IN LOCKER ROOMS AND TOILET TO BE MOISTURE/MOLD RESISTANT AND SCRUBABLE. ACT SYSTEM TO BE LOCATED 8'-6" AFF. SEE SPEC SECTION 09 51 13
- FOR INFORMATION REGARDING ROOF INSULATION SYSTEM SEE SPEC SECTION 13 34 19
- COORDINATE SUPPORT LOCATION OF CEILING SYSTEM WITH FIXTURES TO BE INSTALLED.
- NETTING SYSTEM IN PRACTICE AREA TO BE COORDINATED BETWEEN GC, SUPPLIER, AND INSTALLER. PROVIDE MEANS TO ACCESS LIGHTING BEYOND CEILING NETTING FOR MAINTENANCE.
- IF CANOPY AS SHOWN CAN BE SUPPORTED BY THE PRE-ENGINEERED METAL BUILDING, STEEL CANOPY SUPPORTS AND THEIR FOUNDATIONS MAY BE OMITTED.
- DOWNSPOUTS NOT TO EXPEL ONTO SIDEWALK. GC TO PROVIDE UNDERGROUND CONNECTION WITH DAYLIGHTING BEYOND THE SIDEWALK.

LEGEND OF SYMBOLS

SUPPLY/OUTSIDE AIR DUCT SECTION

EXHAUST/RELIEF AIR DUCT SECTION

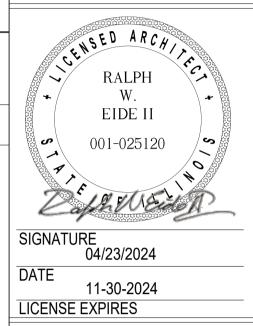
EXHAUST/RETURN AIR DUCT SECTION

SYMBOLS DESCRIPTION

### HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL **EAST ST. LOUIS, IL** SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



62863

WALL MOUNTED LUMINAIRE **VENTILATION PIPE** 

SINGLE-FACE EXIT SIGN

DOUBLE-FACE EXIT SIGN

PRESSURE FLOW PIPE

AIR GRILLE

LINEAR LIGHTING FIXTURE

NORMAL BRANCH LUMINAIRE

**EMERGENCY BRANCH LUMINAIRE** 

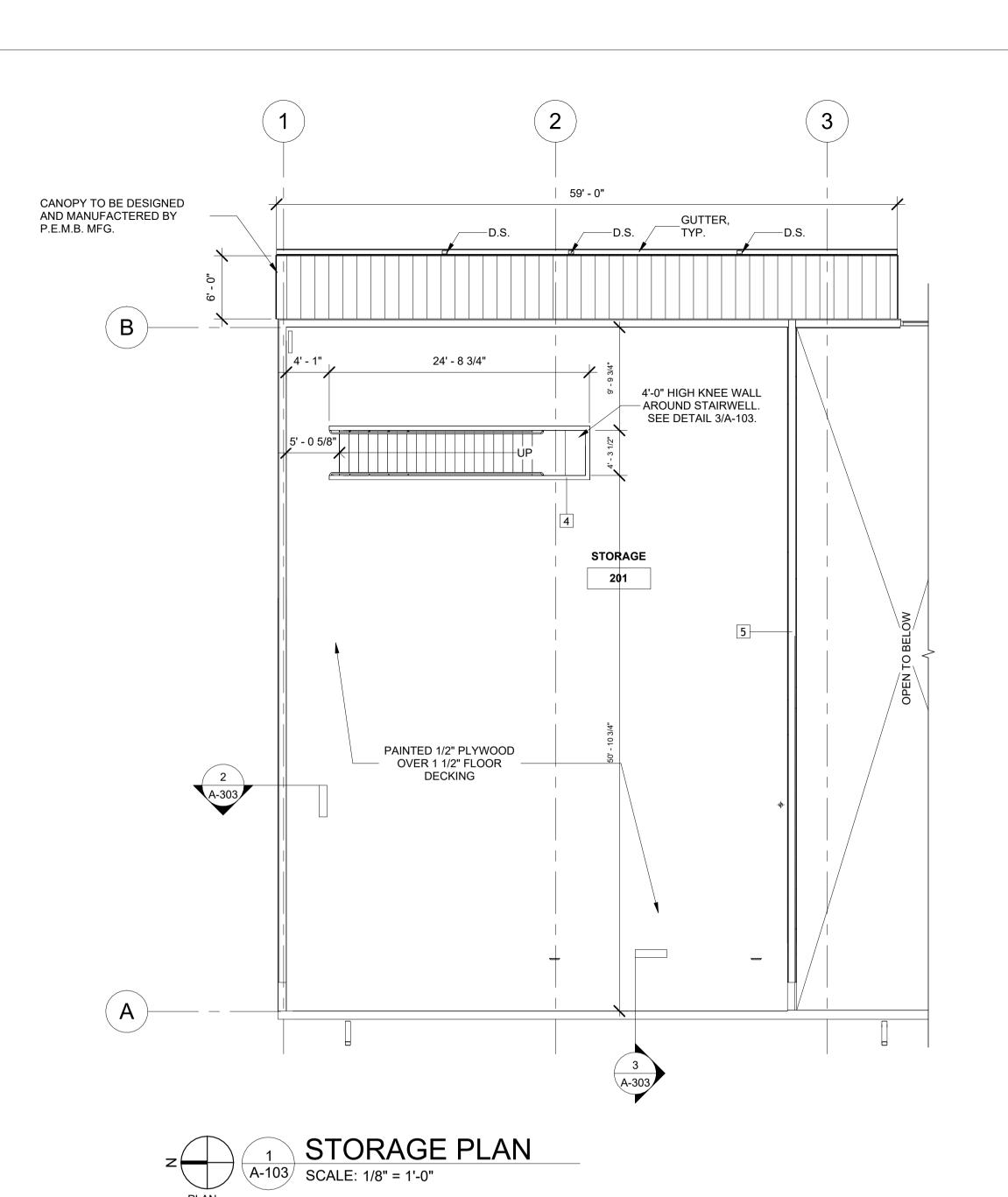
OCCUPANCY SENSOR

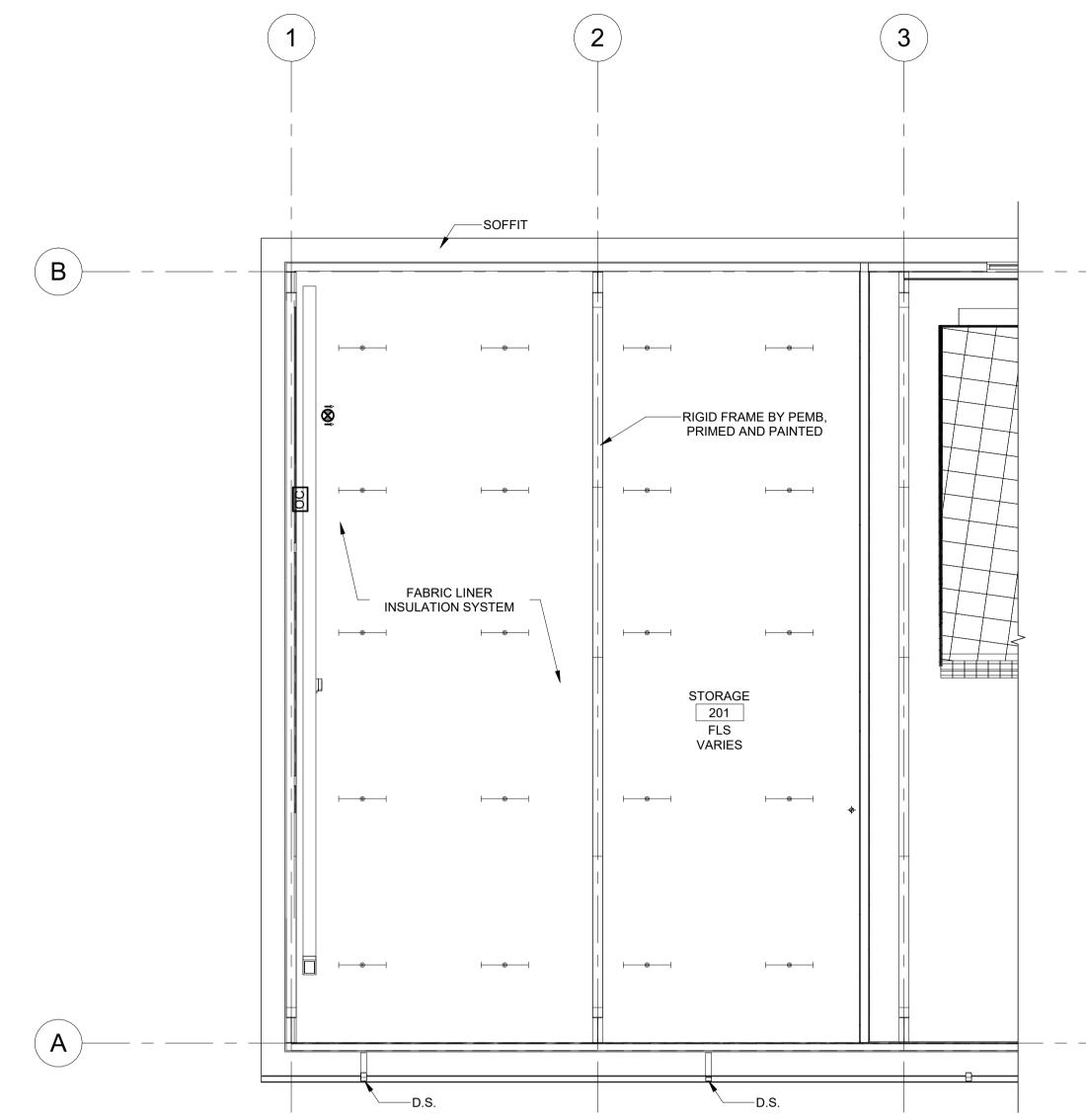
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ARMEL, IL. COLLEGE ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CAF
ILLINOIS EASTERN COMMUNITY C

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

REFLECTED CEILING PLAN

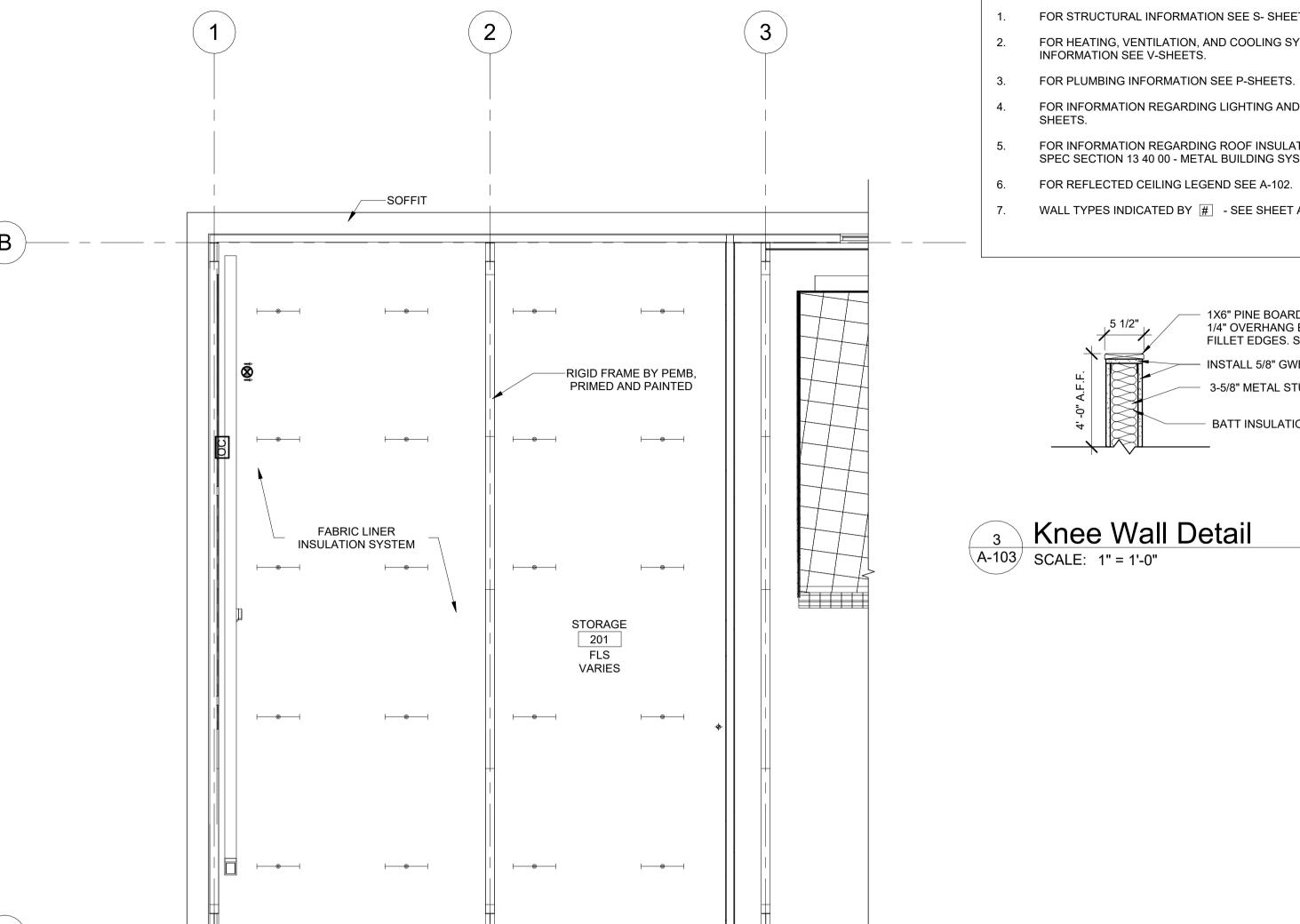




STORAGE REFLECTED CEILING PLAN

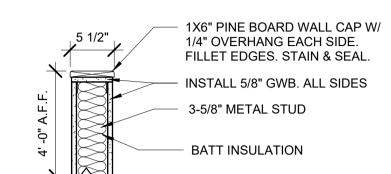
SCALE: 1/8" = 1'-0"

PLAN NORTH

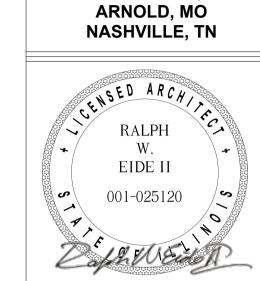




- FOR STRUCTURAL INFORMATION SEE S- SHEETS.
- FOR HEATING, VENTILATION, AND COOLING SYSTEMS INFORMATION SEE V-SHEETS.
- FOR INFORMATION REGARDING LIGHTING AND POWER SEE E-
- FOR INFORMATION REGARDING ROOF INSULATION SYSTEM SEE SPEC SECTION 13 40 00 - METAL BUILDING SYSTEM
- FOR REFLECTED CEILING LEGEND SEE A-102.
- WALL TYPES INDICATED BY # SEE SHEET A-101.



3 Knee Wall Detail
A-103 SCALE: 1" = 1'-0"



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MARION, IL

PH:618.998.0075

HILLSBORO, IL

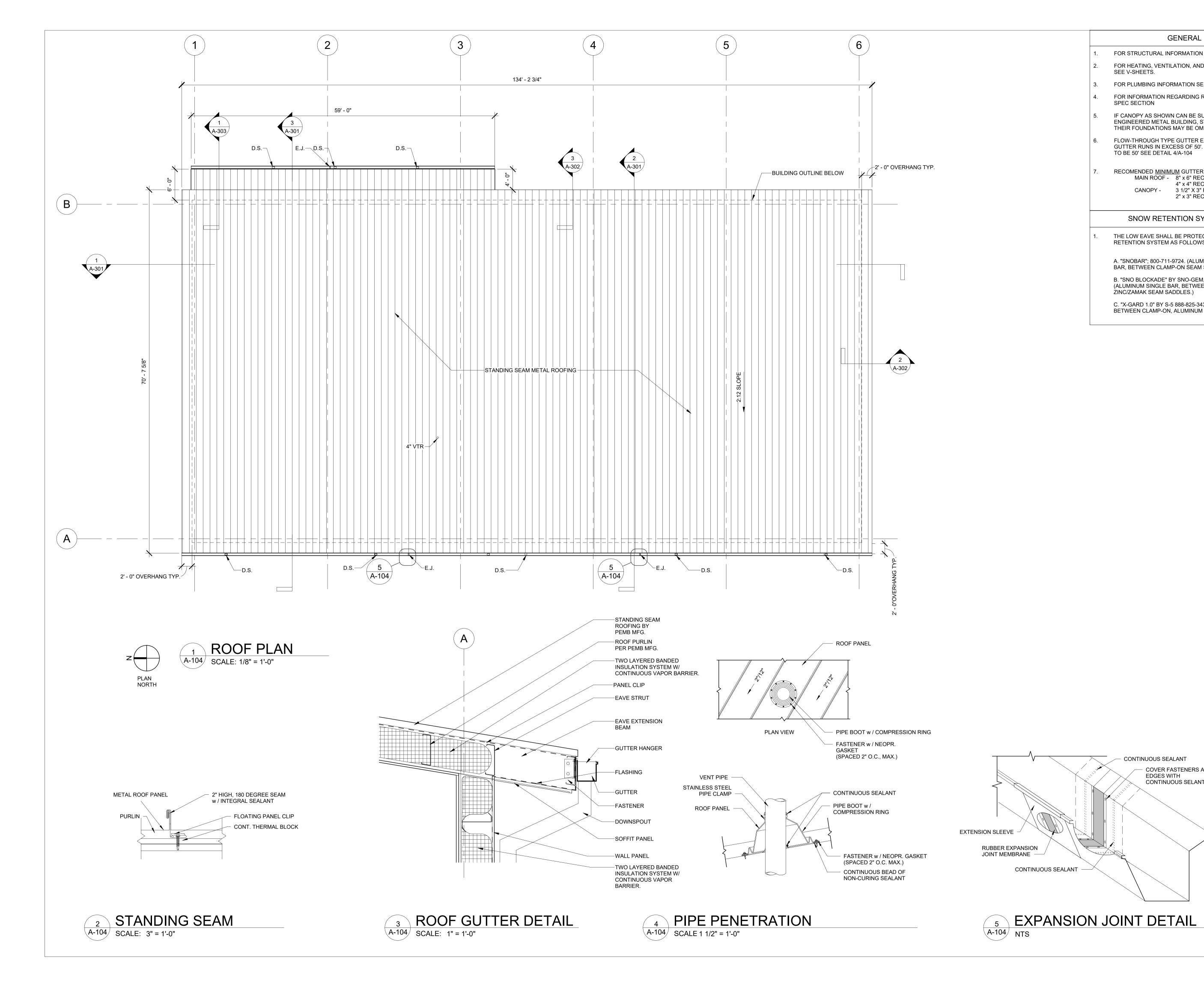
EAST ST. LOUIS, IL SPRINGFIELD, IL

SIGNATURE 04/23/2024 11-30-2024 LICENSE EXPIRES

> 62863 ATHLETIC TRAINING FACILITY
> WABASH VALLEY COLLEGE
> 2200 COLLEGE DRIVE, MOUNT CARMEL, IL
> ILLINOIS EASTERN COMMUNITY COLLEGE

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

STORAGE PLAN, REFLECTED CEILING PLAN



GENERAL NOTES

- FOR STRUCTURAL INFORMATION SEE S- SHEETS.
- FOR HEATING, VENTILATION, AND COOLING SYSTEMS INFORMATION SEE V-SHEETS.
- FOR PLUMBING INFORMATION SEE P-SHEETS.
- FOR INFORMATION REGARDING ROOF INSULATION SYSTEM SEE SPEC SECTION
- IF CANOPY AS SHOWN CAN BE SUPPORTED BY THE PRE-ENGINEERED METAL BUILDING, STEEL CANOPY SUPPORTS AND THEIR FOUNDATIONS MAY BE OMITTED.
- FLOW-THROUGH TYPE GUTTER EXPANSION JOINT REQUIRED AT GUTTER RUNS IN EXCESS OF 50'. MAX SPACING OF EXPANSION JOINT TO BE 50' SEE DETAIL 4/A-104
- RECOMENDED MINIMUM GUTTER AND DOWNSPOUT SIZES MAIN ROOF - 8" x 6" RECTANGULAR GUTTER 4" x 4" RECTANGULAR DOWNSPOUTS (5) 3 1/2" X 3" RECTANGULAR GUTTER

SNOW RETENTION SYSTEM NOTES

2" x 3" RECTANGULAR DOWNSPOUTS (2)

- THE LOW EAVE SHALL BE PROTECTED BY ANY OF THE SNOW RETENTION SYSTEM AS FOLLOWS:
  - A. "SNOBAR": 800-711-9724. (ALUMINUM, STAINLESS STEEL SINGLE BAR, BETWEEN CLAMP-ON SEAM SADDLES.)
  - B. "SNO BLOCKADE" BY SNO-GEM. INC., MCHENRY, IL 888-766-4367. (ALUMINUM SINGLE BAR, BETWEEN CLAMP-ON, ALUMINUM OR ZINC/ZAMAK SEAM SADDLES.)
  - C. "X-GARD 1.0" BY S-5 888-825-3432. (ALUMINUM SINGLE BAR, BETWEEN CLAMP-ON, ALUMINUM OR BRASS SEAM SADDLES.)

CONTINUOUS SEALANT

**EDGES WITH** 

COVER FASTENERS AND

CONTINUOUS SELANT

HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298

200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



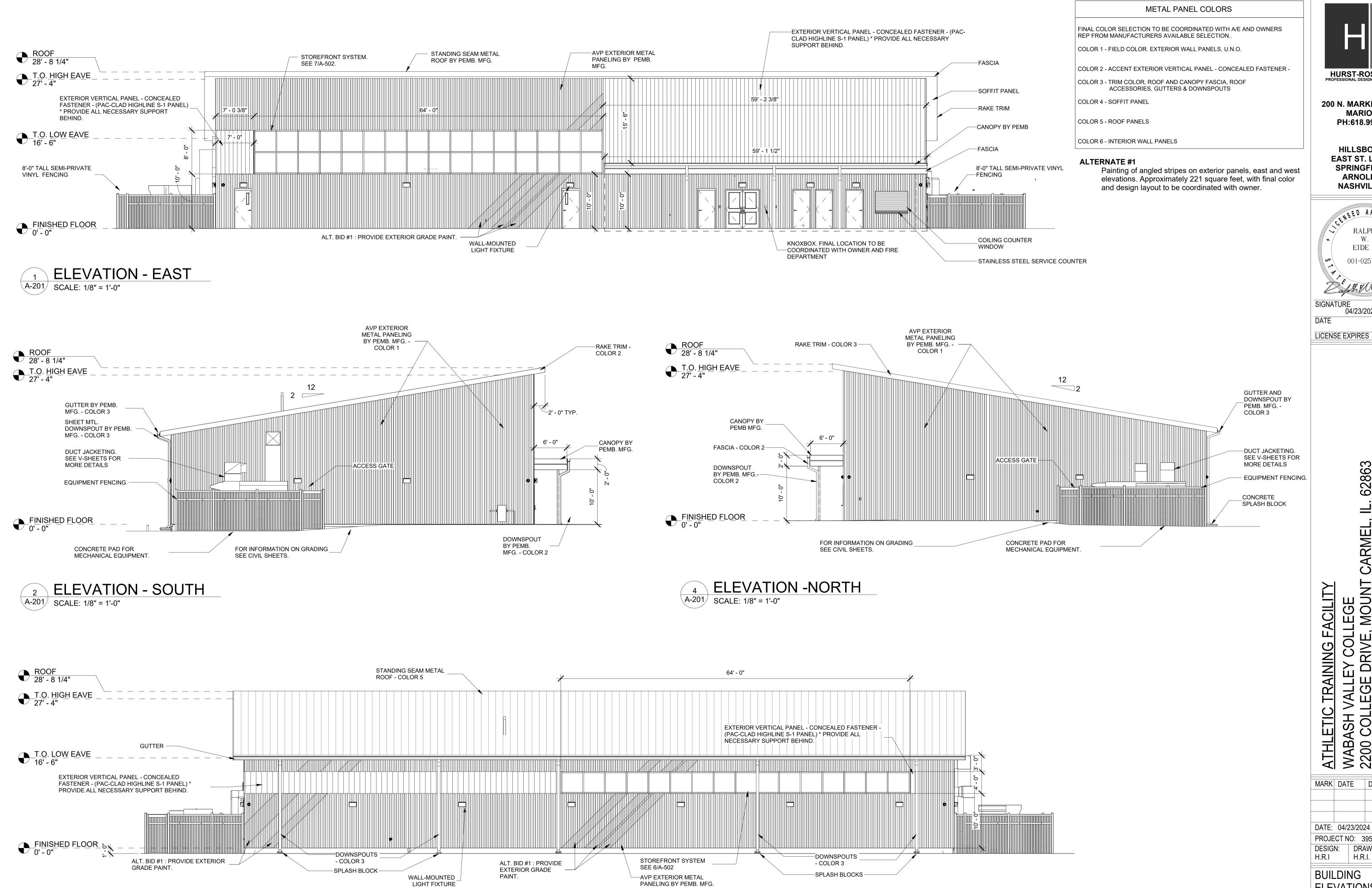
11-30-2024

LICENSE EXPIRES

62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

**ROOF PLAN** 



3 ELEVATION - WEST
A-201 SCALE: 1/8" = 1'-0"

HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

200 N. MARKET STREET MARION, IL PH:618.998.0075

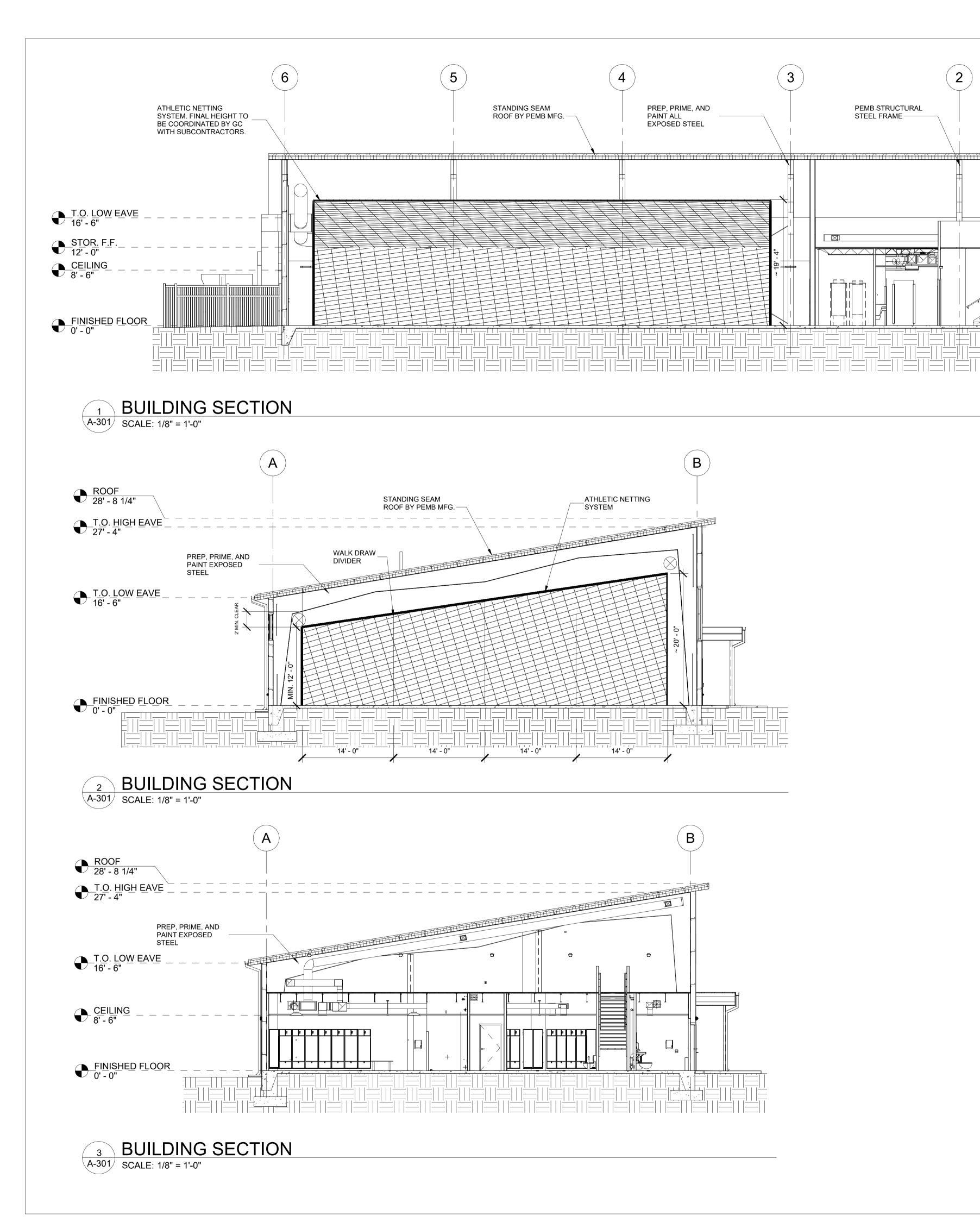
HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN

RALPH RALPH EIDE II SIGNATURE 04/23/2024 DATE

> 62863 · 0 CARMEL, IL. Y COLLEGE WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ( ILLINOIS EASTERN COMMUNITY ATHLETIC TRAINING FACILITY

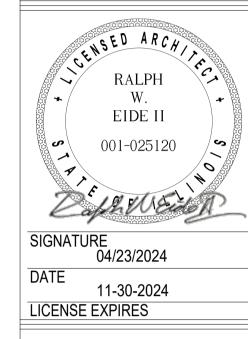
MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

BUILDING **ELEVATIONS** 





> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



ATHLETIC TRAINING FACILITY

WABASH VALLEY COLLEGE

2200 COLLEGE DRIVE, MOUNT CARMEL, IL. 62863

ILLINOIS EASTERN COMMUNITY COLLEGES

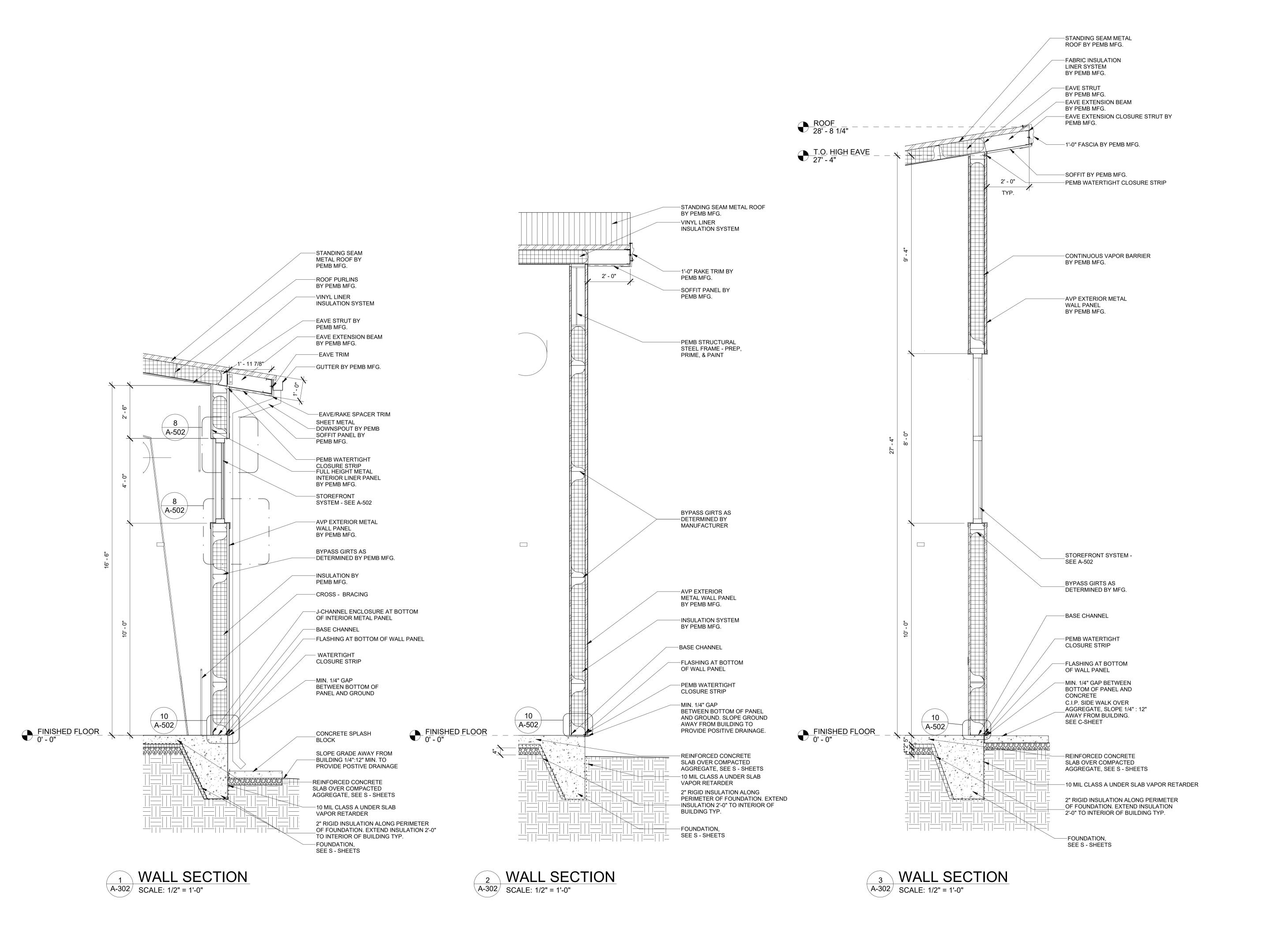
DATE: 04/23/2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: H.R.I. RWE

**BUILDING SECTIONS** 

A-301



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN

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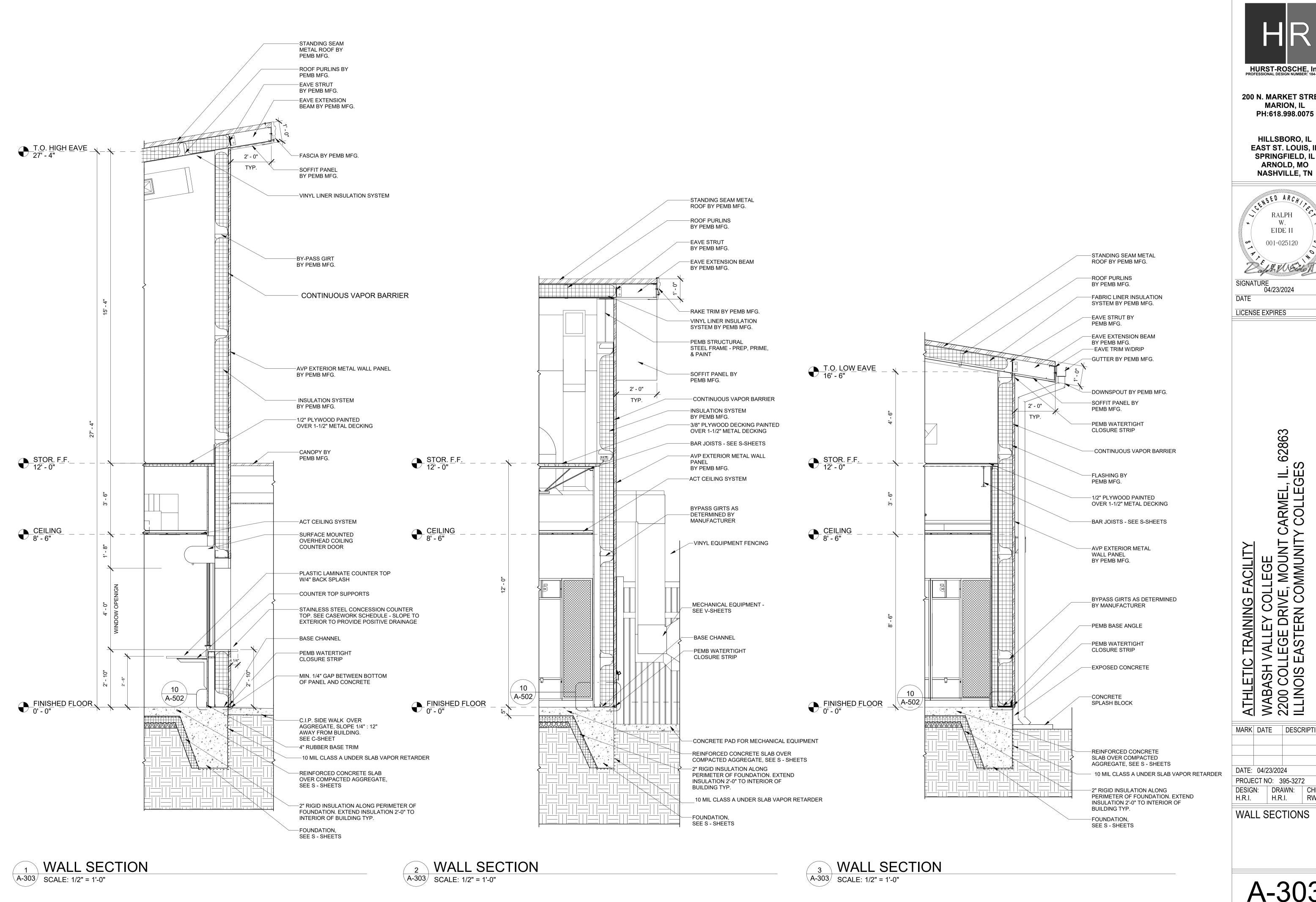
SIGNATURE 04/23/2024 11/30/2024

LICENSE EXPIRES

62863 ARMEL, IL. COLLEGE WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT TRAINING FACILITY <u>ATHLETIC</u>

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE H.R.I.

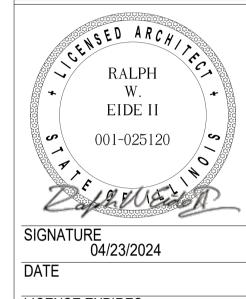
WALL SECTIONS





200 N. MARKET STREET MARION, IL

> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



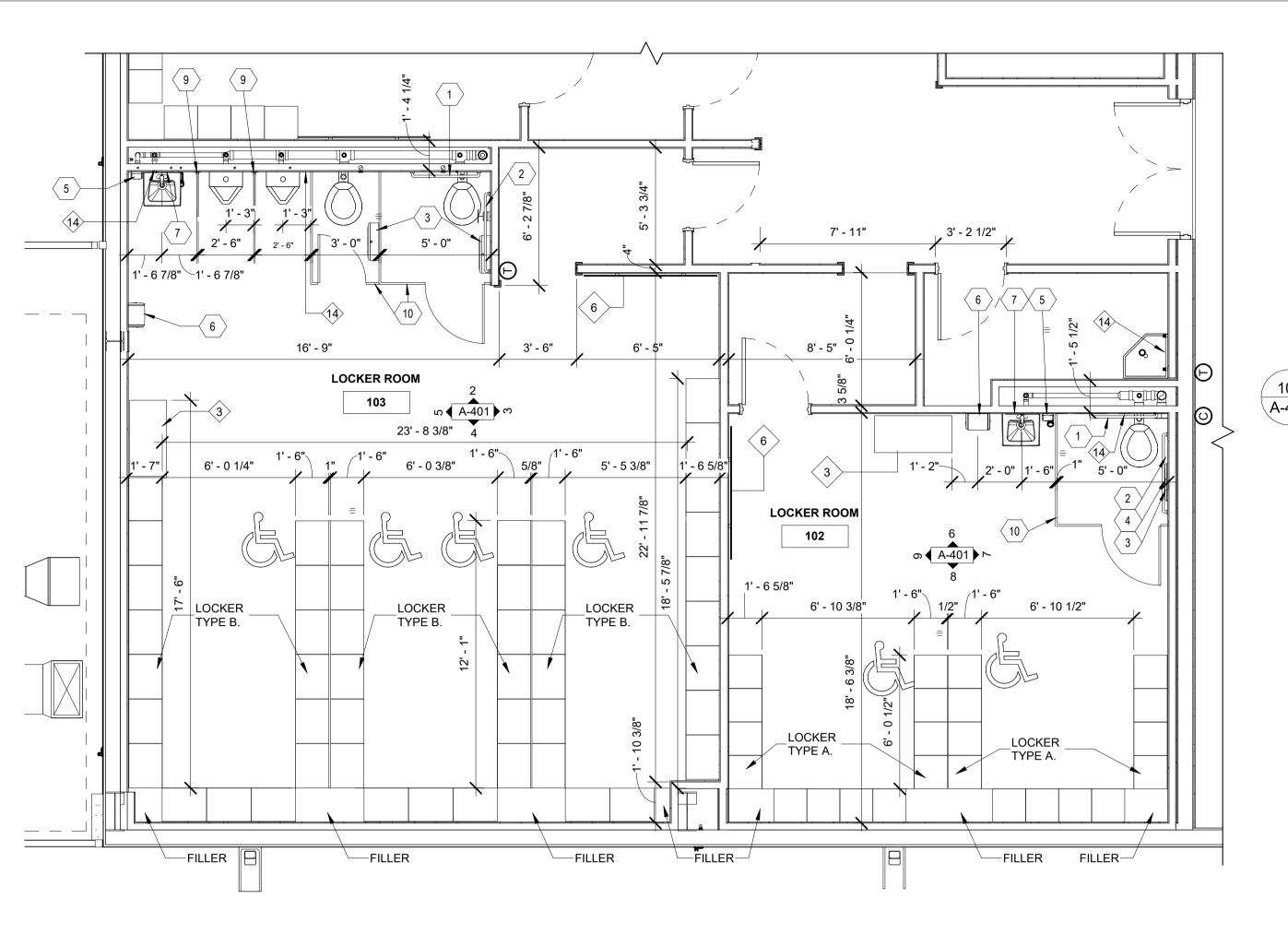
LICENSE EXPIRES

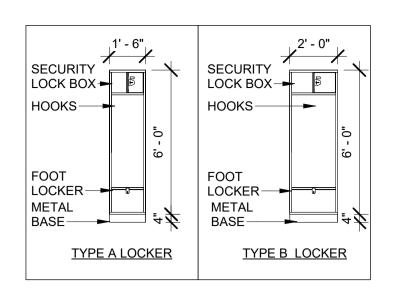
62863 ARMEL, IL. COLLEGE WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNITY

MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

WALL SECTIONS

A-303





TYPICAL LOCKER DETAIL A-401/ SCALE: 1/4" = 1'-0"

	#	DESCRIPTION	MOUNT HEIGHT	COMMENTS
	1	GRAB BAR 36"	3' - 0"	INSTALL TO TOP OF GRIPPING SURFACE
	2	GRAB BAR 42"	3' - 0"	INSTALL TO TOP OF GRIPPING SURFACE
	3	TOILET TISSUE DISPENSER (SURF. MTD.)	1' - 4"	INSTALL TO BOTTOM OF UNIT. INSTALL 8' TO CL. FROM LEADING EDGE OF TOILET.
	4	SANITARY NAPKIN DISPOSAL (SURF. MTD.)	2' - 4"	INSTALL TO TOP OF UNIT.
	5	SOAP DISPENSER (SURF. MTD.)	3' - 4"	INSTALL TO BOTTOM OF UNIT, OWNER TO PROVIDE
	6	TOWEL DISPENSER (SURF. MTD.)	3' - 4"	INSTALL TO BOTTOM OF UNIT
	7	FRAMED MIRROR - 18" x 36"	3' - 4"	INSTALL TO BOTTOM OF REFLECTIVE SURF.
	8	CHANGING STATION	2' - 9"	INSTALL TO SURFACE OF BED
	9	URINAL SCREEN	1'- 0"	18" X 48" , WALL-MOUNTED
1	10	TOILET PARTITION		HEADRAIL BRACED

TOILET ACCESSORY SCHEDULE

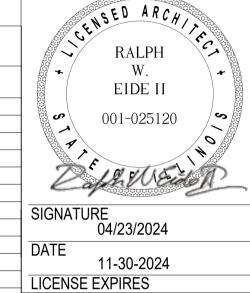
ТО	200 N. MARKET STREET MARION, IL PH:618.998.0075
	HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN
	RALPH W. FIDE II

HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

KEYED NOTES
Note Content
TIC PERIMETER NETTING
_K-DRAW DIVIDER CURTAIN
A BENCH - TO BE INSTALLED PER ADA REQUIREMENTS.
NKING FOUNTAIN WITH BOTTLE FILLER - SEE P SHEETS FOR MORE INFORMATION
RNER MOP SINK SEE P-SHEETS FOR MORE INFORMATION
' X 4'-0" MARKER BOARD - FOR MORE INFORMATION SEE SPEC. 10 11 00
EWALK - SEE 6/ A-501, C-SHEETS FOR MORE DETAILS
RUCTURAL STOOP - SEE DETAIL 7/S-301, 6/A-501
MAKER - FOR MORE INFORMATION SEE SPEC. 11 40 00
IOPY BY PEMB MANUFACTURER
EVISION - NOT PART OF CONTRACT, SEE E-SHEETS FOR RELATED WORK.
TUSED
WNSPOUT W/SPLASH BLOCK - FOR MORE INFORMATION SEE SPEC. #03 48 16

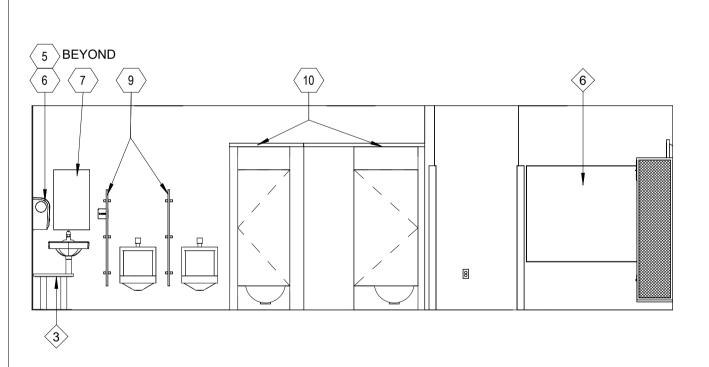
LOCATION WITH PLUMBING CONTRACTOR

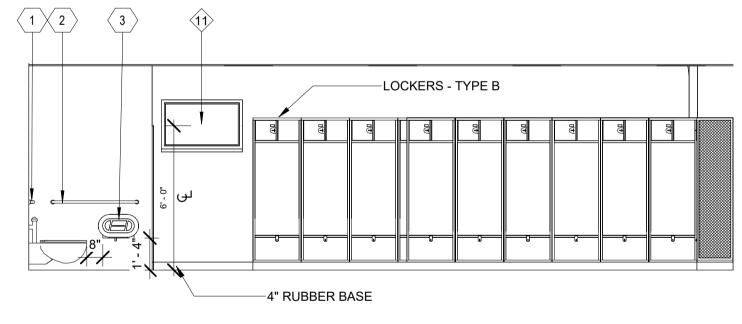
PROVIDE SERVICE ACCESS PANEL FOR WATER HAMMER ARRESTORS. GC TO COORDINATE FINAL

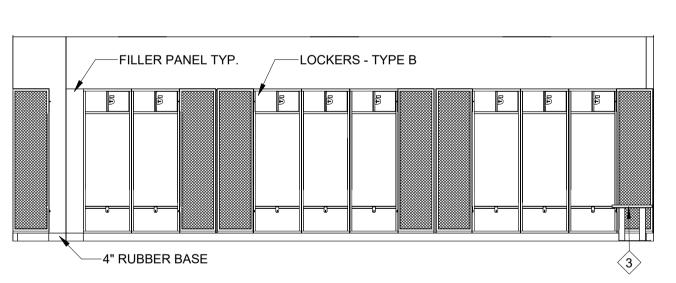


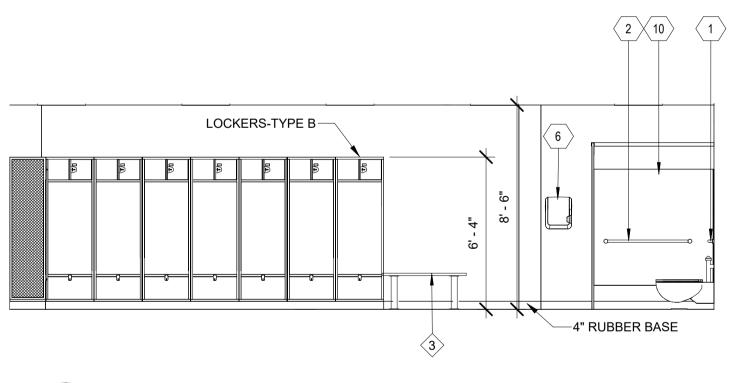
62863



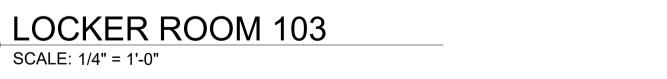






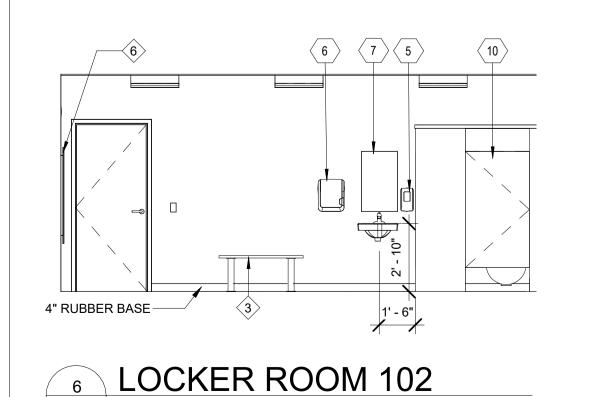








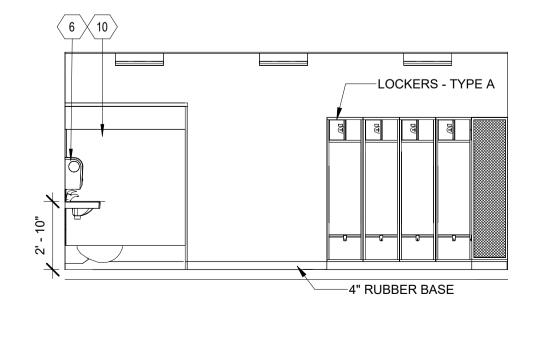
5	LOCKER ROOM 103
A-401	SCALE: 1/4" = 1'-0"



**LOCKER ROOM 103** 

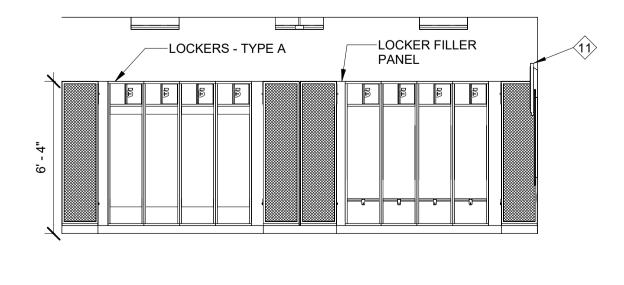
A-401 SCALE: 1/4" = 1'-0"

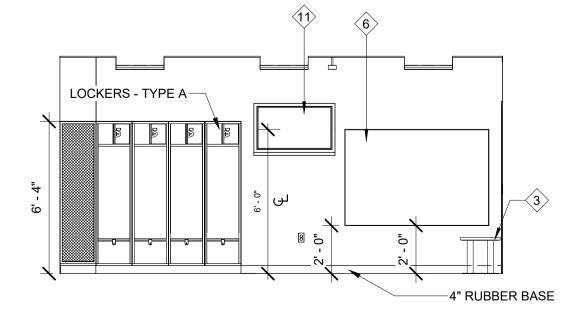
A-401 SCALE: 1/4" = 1'-0"



LOCKER ROOM 102

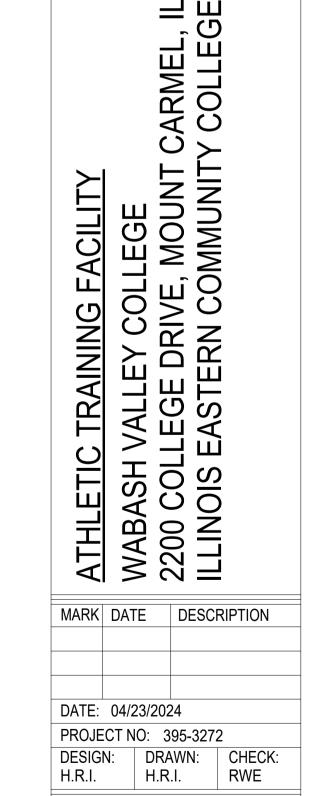
SCALE: 1/4" = 1'-0"



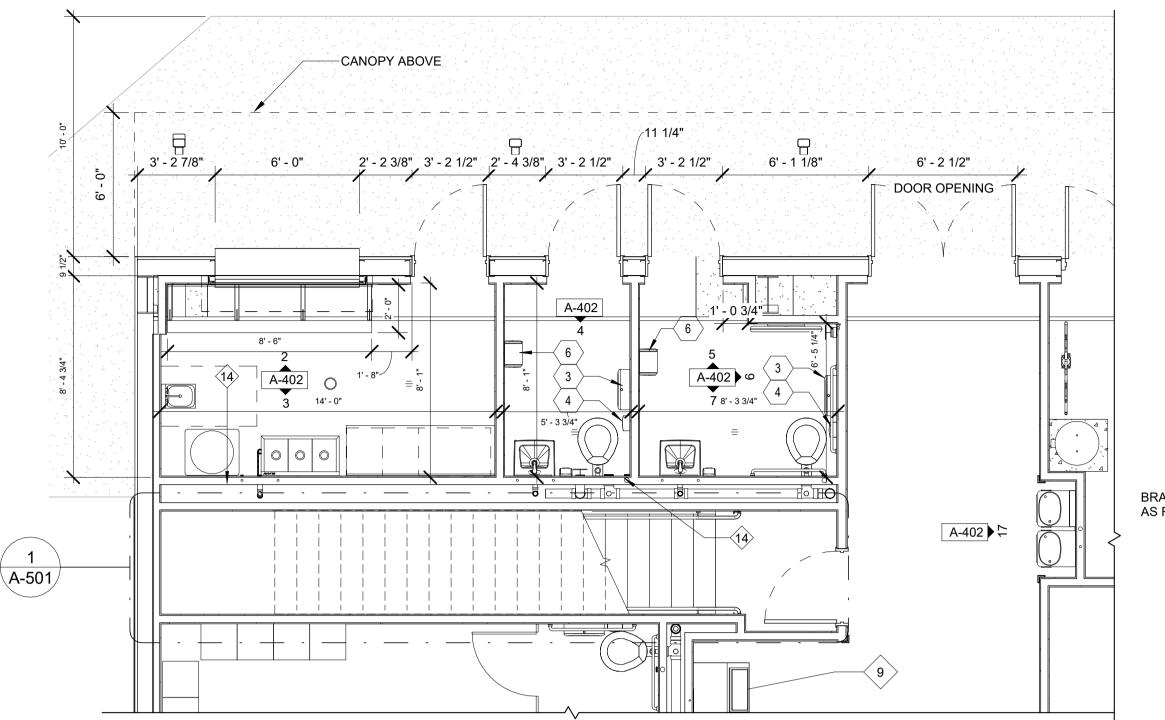


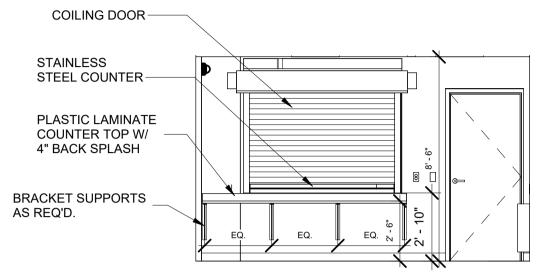
8 LOCKER ROOM 102	9 LOCKER ROOM 102
A-401 SCALE: 1/4" = 1'-0"	A-401 SCALE: 1/4" = 1'-0"





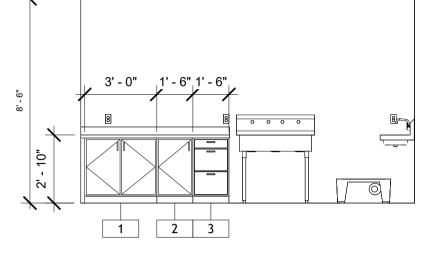
**ENLARGED PLANS** AND INTERIOR **ELEVATIONS** 





CONCESSION

A-402 SCALE: 1/4" = 1'-0"



#

MARK DESCRIPTION

BASE CABINET

BASE CABINET

BASE CABINET

STATIC PERIMETER NETTING WALK-DRAW DIVIDER CURTAIN

CANOPY BY PEMB MANUFACTURER

DESCRIPTION

DISPENSER (SURF. MTD.)

SANITARY NAPKIN DISPOSAL

SOAP DISPENSER (SURF. MTD.)

TOWEL DISPENSER (SURF. MTD.)

FRAMED MIRROR - 18" x 36"

CHANGING STATION

URINAL SCREEN

**TOILET PARTITION** 

LOCATION WITH PLUMBING CONTRACTOR

NOT USED

GRAB BAR 36"

GRAB BAR 42"

**TOILET TISSUE** 

(SURF. MTD.)

ADA BENCH - TO BE INSTALLED PER ADA REQUIREMENTS.

SIDEWALK - SEE 6/ A-501, C-SHEETS FOR MORE DETAILS STRUCTURAL STOOP - SEE DETAIL 7/S-301, 6/A-501

ICE MAKER - FOR MORE INFORMATION SEE SPEC. 11 40 00

CORNER MOP SINK SEE P-SHEETS FOR MORE INFORMATION

**KEYED NOTES** 

Note Content

DRINKING FOUNTAIN WITH BOTTLE FILLER - SEE P SHEETS FOR MORE INFORMATION

6'-0" X 4'-0" MARKER BOARD - FOR MORE INFORMATION SEE SPEC. 10 11 00

TELEVISION - NOT PART OF CONTRACT, SEE E-SHEETS FOR RELATED WORK.

DOWNSPOUT W/SPLASH BLOCK - FOR MORE INFORMATION SEE SPEC. #03 48 16

TOILET ACCESSORY SCHEDULE

2' - 9"

1'- 0"



_		
io -	3'-0" 1'-6" 1'-6" L	
2' - 10"		8

3	CONCESSION
\_402	COALE: 4/4" - 4LO"

RK SCHE	DULE		
HEIGHT	DEPTH	COMMENTS	
2' - 8 1/2"	2' - 0"	2 DOOR/ ADJUSTABLE SHELF	
2' - 8 1/2"	2' - 0"	1 DOOR/ 1 ADJUSTABLE SHELF	
2' - 8 1/2"	2' - 0"	3 DRAWER	
1			HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298
	HEIGHT 2' - 8 1/2" 2' - 8 1/2"	2' - 8 1/2" 2' - 0" 2' - 8 1/2" 2' - 0"	HEIGHT         DEPTH         COMMENTS           2' - 8 1/2"         2' - 0"         2 DOOR/ ADJUSTABLE SHELF           2' - 8 1/2"         2' - 0"         1 DOOR/ 1 ADJUSTABLE SHELF

200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL **EAST ST. LOUIS, IL** SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN

CENSED ARCHITCA W. PROVIDE SERVICE ACCESS PANEL FOR WATER HAMMER ARRESTORS. GC TO COORDINATE FINAL EIDE II

62863

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL, IL
ILLINOIS EASTERN COMMUNITY COLLEGE

MARK DATE DESCRIPTION

DATE: 04/23/2024

PROJECT NO: 395-3272

AND INTERIOR

**ELEVATIONS** 

DESIGN: DRAWN: CHECK: H.R.I. RWE

ENLARGED PLANS

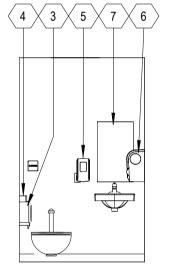
11-30-2024 LICENSE EXPIRES

### **MOUNT HEIGHT** COMMENTS INSTALL TO TOP OF GRIPPING SURFACE 3' - 0" INSTALL TO TOP OF GRIPPING SURFACE 3' - 0" INSTALL TO BOTTOM OF UNIT. INSTALL 8" 1' - 4" TO CL. FROM LEADING EDGE OF TOILET. 2' - 4" INSTALL TO TOP OF UNIT. 3' - 4" INSTALL TO BOTTOM OF UNIT, OWNER TO PROVIDE 3' - 4" INSTALL TO BOTTOM OF UNIT INSTALL TO BOTTOM OF REFLECTIVE 3' - 4" INSTALL TO SURFACE OF BED

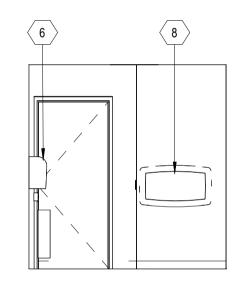
18" X 48", WALL-MOUNTED

HEADRAIL BRACED

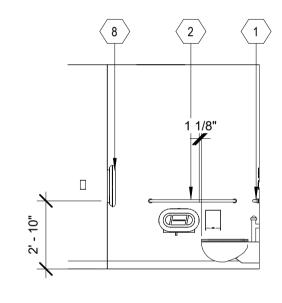
**CONCESSION - WC** A-402 SCALE: 1/4" = 1'-0"



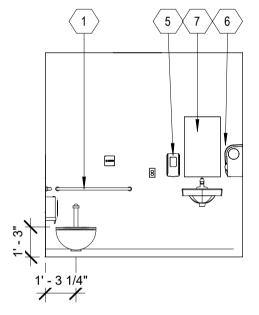




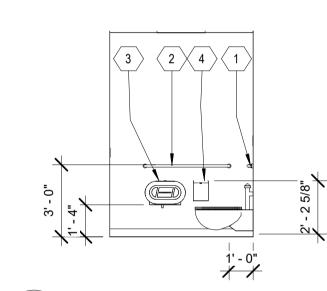
5 WC 107 A-402 SCALE: 1/4" = 1'-0"



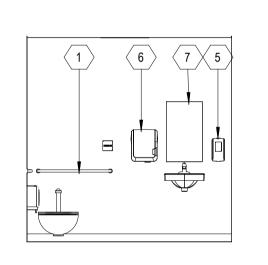
6 WC 107 A-402 SCALE: 1/4" = 1'-0"



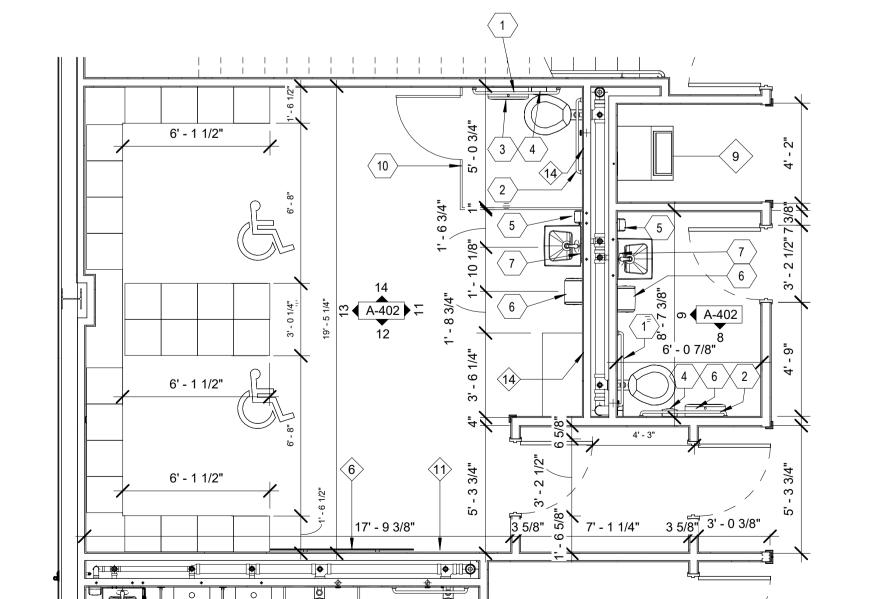
WC 107 A-402 SCALE: 1/4" = 1'-0"



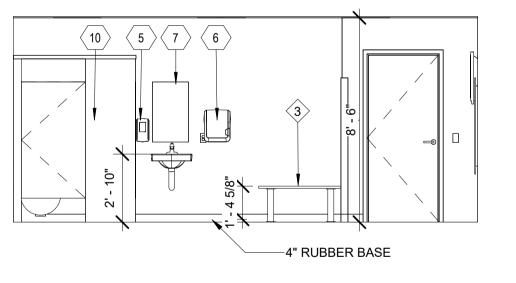
WC 110 A-402 SCALE: 1/4" = 1'-0"



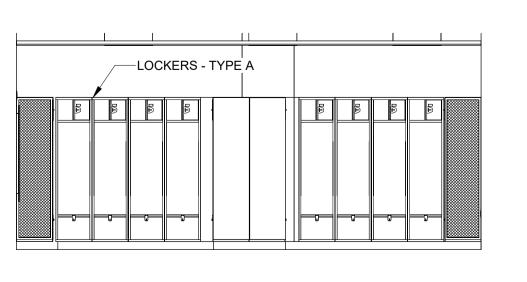
9 WC 110 A-402 SCALE: 1/4" = 1'-0"



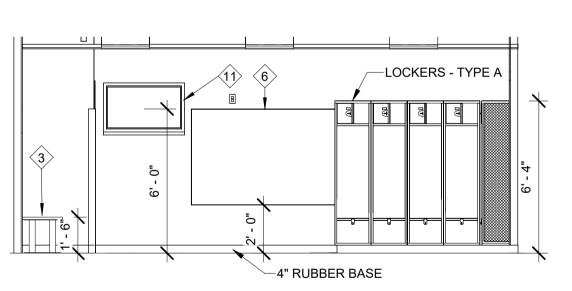
10 LOCKER ROOM 104 A-402 SCALE: 1/4" = 1'-0"



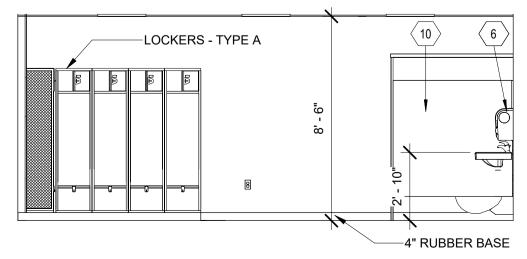




13 LOCKER ROOM 104 A-402 SCALE: 1/4" = 1'-0"

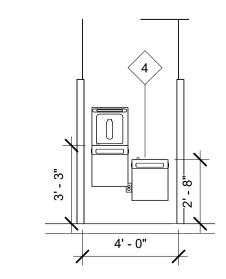


12 LOCKER ROOM 104 A-402 SCALE: 1/4" = 1'-0"



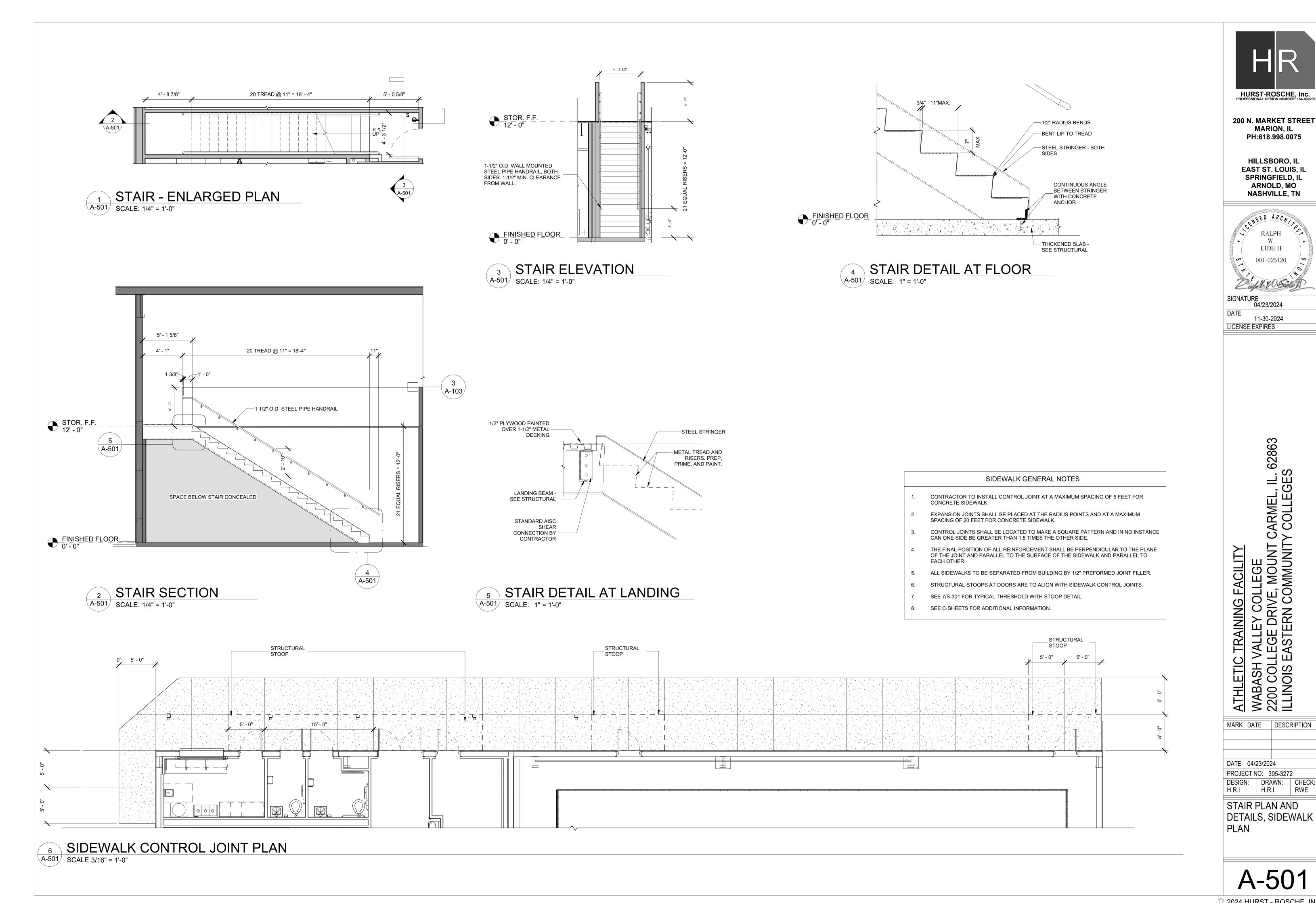
14 LOCKER ROOM 104

A-402 SCALE: 1/4" = 1'-0"



WATER FOUNTAIN

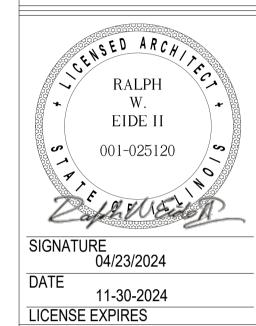
A-402



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-0002

200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



-. 62863 -S WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

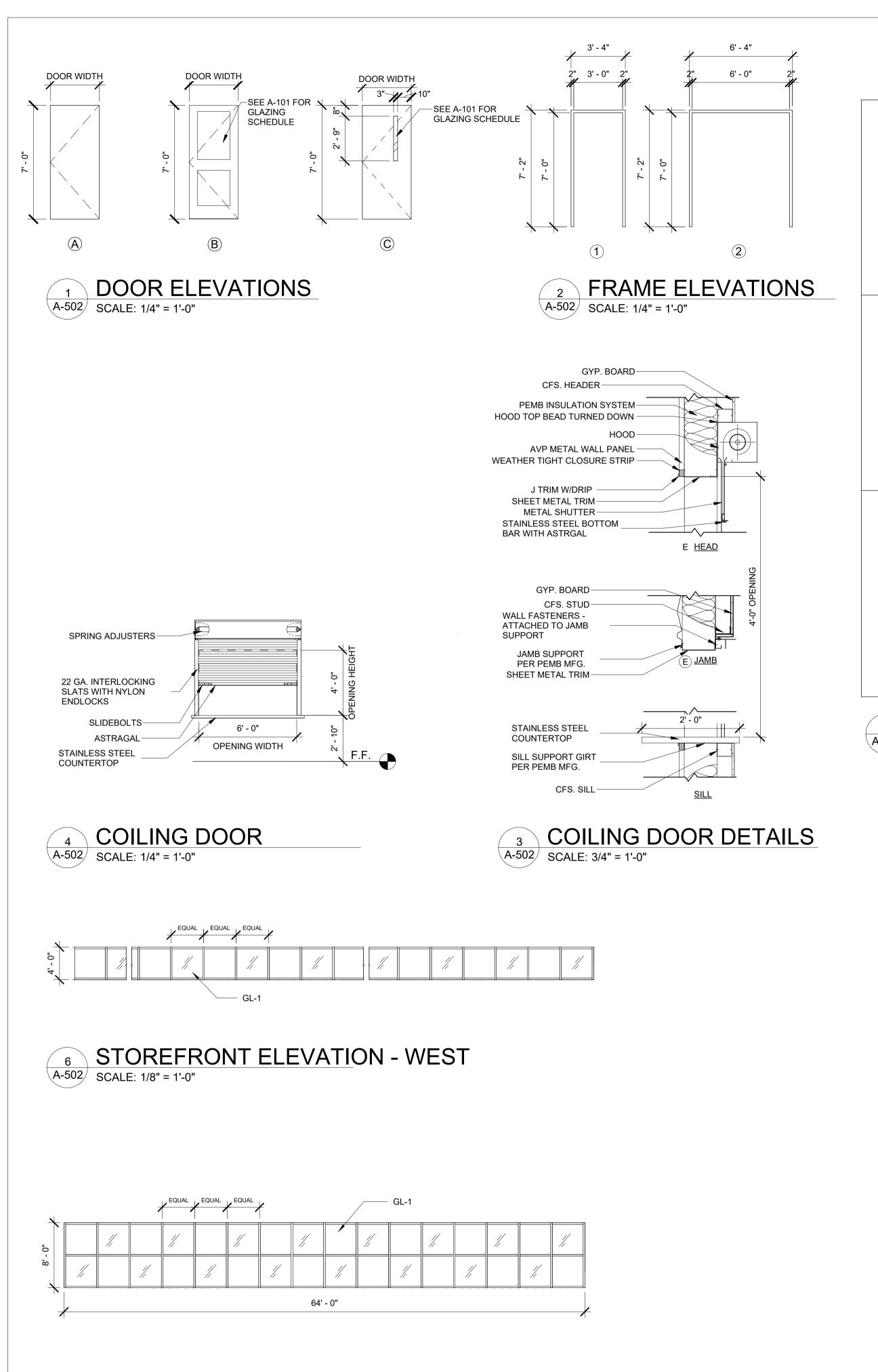
MARK DATE DESCRIPTION

PROJECT NO: 395-3272

PLAN

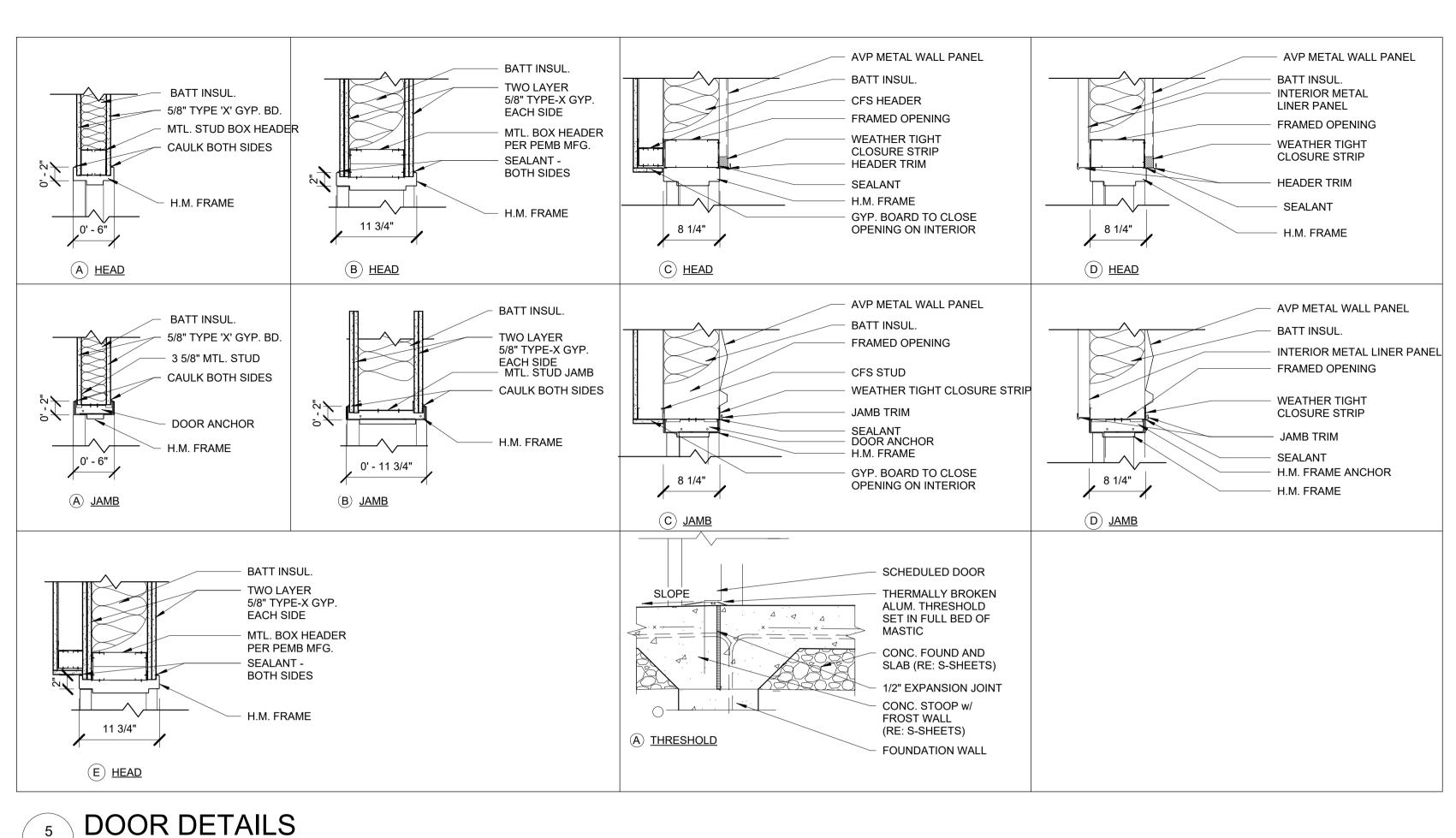
DESIGN: DRAWN: CHECK: H.R.I.

RWE



STOREFRONT ELEVATION - EAST

A-502 SCALE: 1/8" = 1'-0"



\* SEE SHEET A-101 FOR DOOR SCHEDULE

INSULATION

LINER PANEL

-FLASHING

-SEALANT

MULLIONS AS REQ

(A) <u>HEAD</u>

B SILL

A-502 SCALE: 1" = 1'-0"

HEADER CLIP

AVP EXTERIOR PANEL

FRAMED OPENING PER PEMB MFG.

MULLION AS REQ.

FRAMED OPENING PER

PEMB MFG.

LINER PANEL

INSULATION

STOREFRONT DETAILS

PEMB WALL GIRT

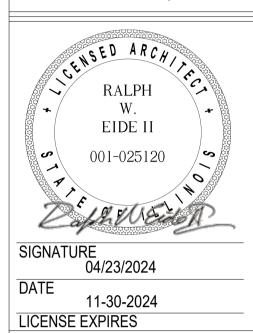
-AVP EXTERIOR PANEL

PEMB WALL GIRT



200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL **EAST ST. LOUIS, IL** SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL, IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY

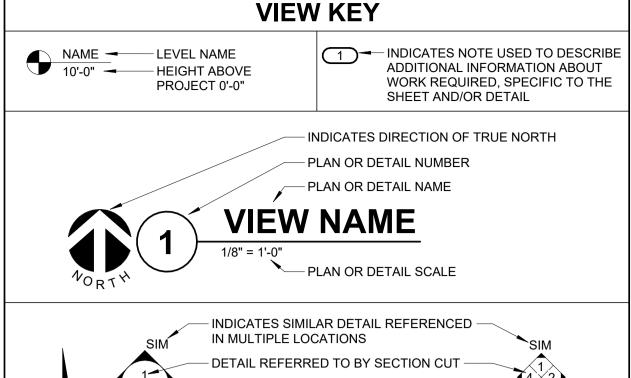
MARK DATE DESCRIPTION DATE: 04/23/2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: H.R.I. RWE

DOOR AND WINDOW **ELEVATIONS AND DETAILS** 

A-502



TYP. EXTERIOR WALL BASE DETAIL A-502 SCALE 1 1/2" = 1'-0"



ackslashM101egtharpoonupSHEET DETAIL IS LOCATED ON ---

**LINE TYPE AND TAG KEY:** 

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING TO BE REMOVED (SHORT DASHED PATTERN) NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW. ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY					
	NOT ALL SYMBOLS MAY APPLY.				
ABBR:	DESCRIPTION:				
C.C.	CIVIL CONTRACTOR				
C.M.	CONSTRUCTION MANAGER				
E.C.	ELECTRICAL CONTRACTOR				
G.C.	GENERAL CONTRACTOR				
M.C.	MECHANICAL CONTRACTOR				
P.C.	PLUMBING CONTRACTOR				
V.C.	VENTILATION CONTRACTOR				

FIRE / SMOKE BARR	RIER DESIGNATIONS
THE LINE TYPES SHOWN ARE FOR THE CONVENII SHALL VERIFY RATINGS WITH THE LATEST SET O MATERIALS REQUIRED TO COMPLY WITH THOSE	F ARCHITECTURAL PLANS AND FURNISH ALL
2 HOUR FIRE BARRIER OR WALL	

PLUMBING SYMBOL LIST							
NOT ALL SYMBOLS MAY APPLY.							
SYMBOL:	DESCRIPTION:						
CW	COLD WATER - POTABLE						
D	DRAIN						
——G——	NATURAL GAS						
——HW——	HOT WATER - POTABLE						
—HWC—	HOT WATER CIRCULATING - POTABLE						
——SAN——	SANITARY DRAINAGE						
V	VENT						
W	SERVICE WATER - POTABLE						
<del></del>	PIPE CONTINUATION						
<del></del>	PIPE CAP						
<del></del>	PIPE DOWN						
<del></del> 0	PIPE UP OR UP/DOWN						
—— <b>о</b> FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)						
	PITCH PIPE IN DIRECTION						
	DIRECTION OF FLOW IN PIPE						
7	ROUTE TO DRAIN						
<del></del>	— DIELECTRIC CONNECTION						
	UNION/FLANGE						
——₩——	SHUTOFF VALVE NORMALLY OPEN						
<b>→</b>	SHUTOFF VALVE NORMALLY CLOSED						
BALANCING VALVE (NUMBER INDICATES GPM)							
	CHECK VALVE						
MKKM	BACKFLOW PREVENTER						
₩	SOLENOID VALVE						
<b>≯</b> □	SAFETY/RELIEF VALVE						
Ϋ,	VACUUM BREAKER						
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)						
— <b>₩</b> —₽	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)						
	TEMPERATURE SENSOR WITH WELL						
<u> </u>	THERMOMETER WITH WELL (DIAL TYPE)						
	THERMOMETER WITH WELL (FILLED TYPE)						
— <del>↓</del>	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB						
	PRESSURE REDUCING VALVE (LIQUID/GAS)						
— <u>()</u>	PUMP						
<u> </u>	METER						
	ALIGNMENT GUIDE						
×	PIPE ANCHOR						
EJ-# (#.#")	EXPANSION JOINT #.#" IS THE EXPANSION TRAVEL INCHES						
⊕ ₹	AIR ADMITTANCE VALVE						
	<u> </u>						

PIPE	INSULAT	ION SCH	EDULE (F	PLUMBING)

GENERAL NOTES: REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES LISTED BELOW ARE BASED ON ASHRAE / IECC REQUIREMENTS.

. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC. . TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.

DIDE OVOTEM	INSULATION TYPE	INSULA	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE				
PIPE SYSTEM		< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	NOTES
22 PLUMBING	•						
G - NATURAL GAS	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	
22 PLUMBING - WASTE			•	•			•
D - DRAIN - PLUMBING	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
SAN - SANITARY DRAINAGE	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
V - VENT	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION
22 PLUMBING - WATER		•	•		•		
CW - COLD WATER - POTABLE	A (GlsFbr), B (Elasto)	0.5"	0.5"	1"	1"	1"	
HW - HOT WATER - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	
HWC - HOT WATER CIRCULATING - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1"	1"	1"	
W - SERVICE WATER - POTABLE	A (GIsEbr) B (Flasto)	0.5"	0.5"	1"	1"	1"	

### PLUMBING ABBREVIATION KEY

NOT ALL SYMBOLS MAY APPLY.					
ABBR:	DESCRIPTION:				
AD	ACCESS DOOR				
AFF	ABOVE FINISHED FLOOR				
BFP	BACKFLOW PREVENTER				
СВ	CATCH BASIN				
CI	CAST IRON				
со	CLEANOUT				
DF	DRINKING FOUNTAIN				
DI	DUCTILE IRON				
DN	DOWN				
EWC	ELECTRIC WATER COOLER				
FCO	FLOOR CLEANOUT				
FD	FLOOR DRAIN				
FM	FLOW METER				
FS	FLOOR SINK				
GD	GARBAGE DISPOSER				
GI	GREASE INTERCEPTOR				
НВ	HOSE BIBB				
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)				
LAV LAVATORY					
MB	MOP BASIN				
MH	MANHOLE				
MV	MIXING VALVE				
NIC	NOT IN CONTRACT				
os	OIL SEPARATOR				
RD	ROOF DRAIN				
SH	SHOWER				
SK	SINK				
SS	SERVICE SINK				
TD	TRENCH DRAIN				
TP	TRAP PRIMER				
TYP	TYPICAL				
UR	URINAL				
VTR	VENT THROUGH ROOF				
WC	WATER CLOSET				
wco	WALL CLEANOUT				
WF	WASH FOUNTAIN				
WH	WATER HEATER				
WMF	WASHING MACHINE FIXTURE				
WM	WATER METER				
WS	WATER SOFTENER				
UB	UTILITY BOX				
UON	UNLESS OTHERWISE NOTED				
YCO	YARD CLEANOUT				

### PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW) ) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINUMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
EWC-1	ELECTRIC WATER COOLER	1/2"	-	2"	1 1/2"
FD-1	FLOOR DRAIN	-	-	4"	2"
FS-1	FLOOR SINK	-	-	4"	2"
HB-1	HOSE BIBB	3/4"	-	-	-
L-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"
MB-1	MOP BASIN	3/4"	3/4"	3"	1 1/2"
SK-1	SINK	1/2"	1/2"	2"	1 1/2"
SK-2	SINK	1/2"	1/2"	1 1/2"	1 1/2"
UB-1	UTILITY BOX	1/2"	-	-	-
UR-1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"
UR-2	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"
WC-1	WATER CLOSET	1 1/2"	-	4"	2"
WC-2	WATER CLOSET	1 1/2"	-	4"	2"

### **PLUMBING GENERAL NOTES:**

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE
- 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL
- APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY
- 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO
- 7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.

- 1. DRAWINGS SHOWING LOCATIONS OF FOUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING
- 2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL
- DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE
- 4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- 7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY
- 10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS. FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS
- 12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER
- PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE
- WITHIN ROOMS. 14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL
- 15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,
- LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS. 18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6 '-0" ABOVE THE
- EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
- 20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS

### PLUMBING SLOPE REQUIREMENTS:

**BASED ON PLUMBING CODE: ILLINOIS PLUMBING CODE** 

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**REF. SCALE IN INCHES** 

<u>INTERIOR</u>: DOMESTIC WATER:

<= 3"Ø=1/4" PER FOOT >3"Ø = 1/8" PER FOOT NO SPECIFIC PITCH, PITCH TO FIXTURES NO SPECIFIC PITCH, PITCH TO FIXTURES

WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT ATHL MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK:

IMEG

MATKAH

**PLUMBING COVERSHEET** 

KAIASH

2024 HURST - ROSCHE, INC.



200 N. MARKET STREET

MARION, IL

PH:618.998.0075

HILLSBORO, IL **EAST ST. LOUIS, IL** 

SPRINGFIELD. IL

ARNOLD. MO

NASHVILLE, TN

**SIGNATURE** 

LICENSE EXPIRES

04-23-2024

11-30-2025

62863

**FACILITY** 

**TRAINING** 

BASIS OF DESIGN.

4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874

ALL ELEVATIONS BEFORE BEGINNING WORK.

BEGINNING ANY WORK.

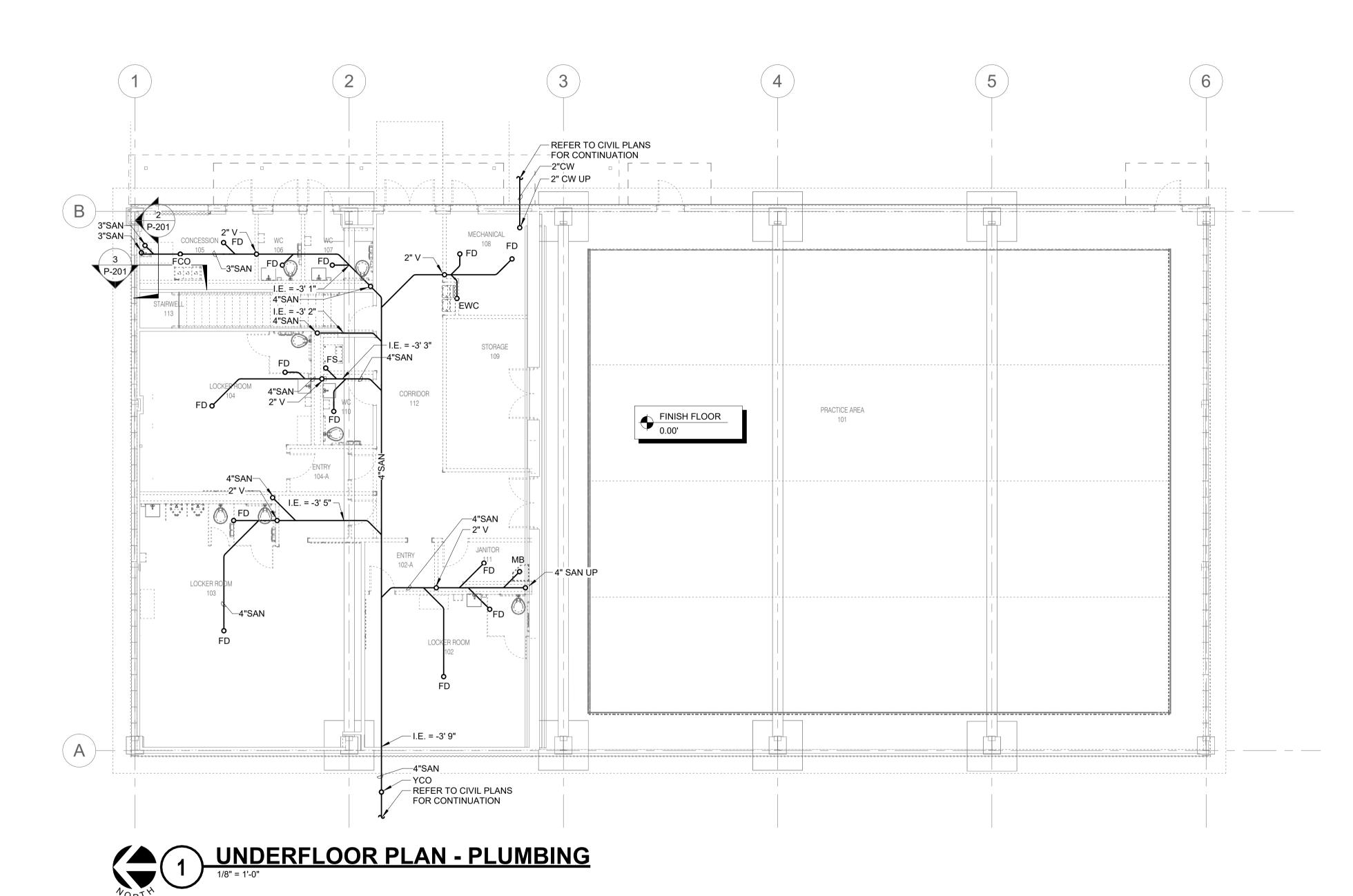
### **MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
- HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.

- 8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- AUDIO/VISUAL. AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING
- MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- PANELS PRIOR TO BIDDING.
- FOR OUTDOOR USE. 13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL
- TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS
- RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- PIPING, DUCTWORK, ETC. 16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT
- 19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

SANITARY WASTE:





> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04-23-2024 DATE 11-30-2025

LICENSE EXPIRES

-. 62863 :S ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL
ILLINOIS EASTERN COMMUNITY COLLEGE

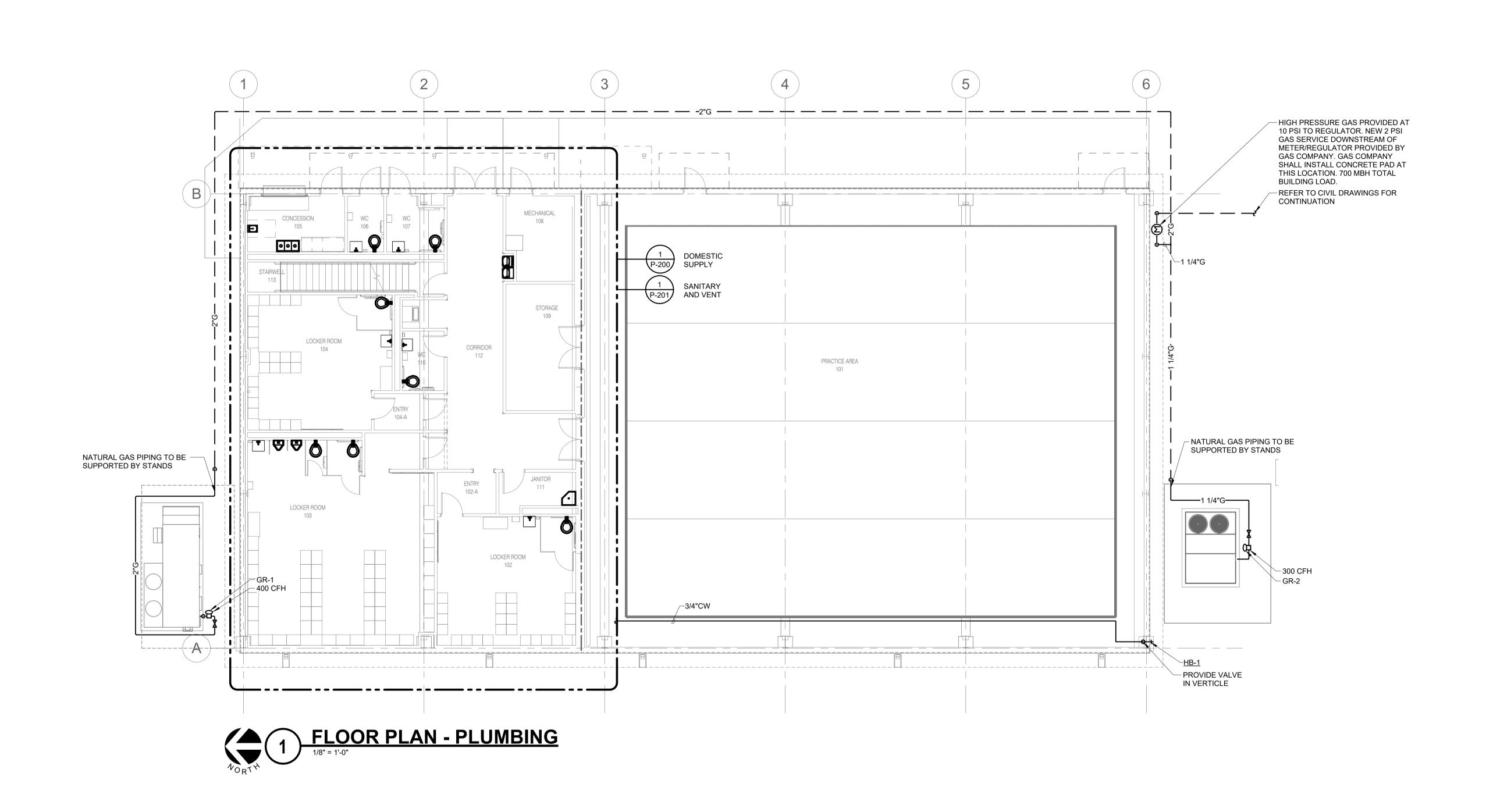
MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

PLUMBING UNDERFLOOR PLAN

15 SUNNEN DRIVE SUITE 104 ST. LOUIS, MO 63143 P: 314.645.1132 F: 314.645.1173 IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. ©2023 IMEG CORP.

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P-100





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SIGNATURE 04-23-2024 11-30-2025

LICENSE EXPIRES

-. 62863 :S WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL. IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY MARK DATE DESCRIPTION

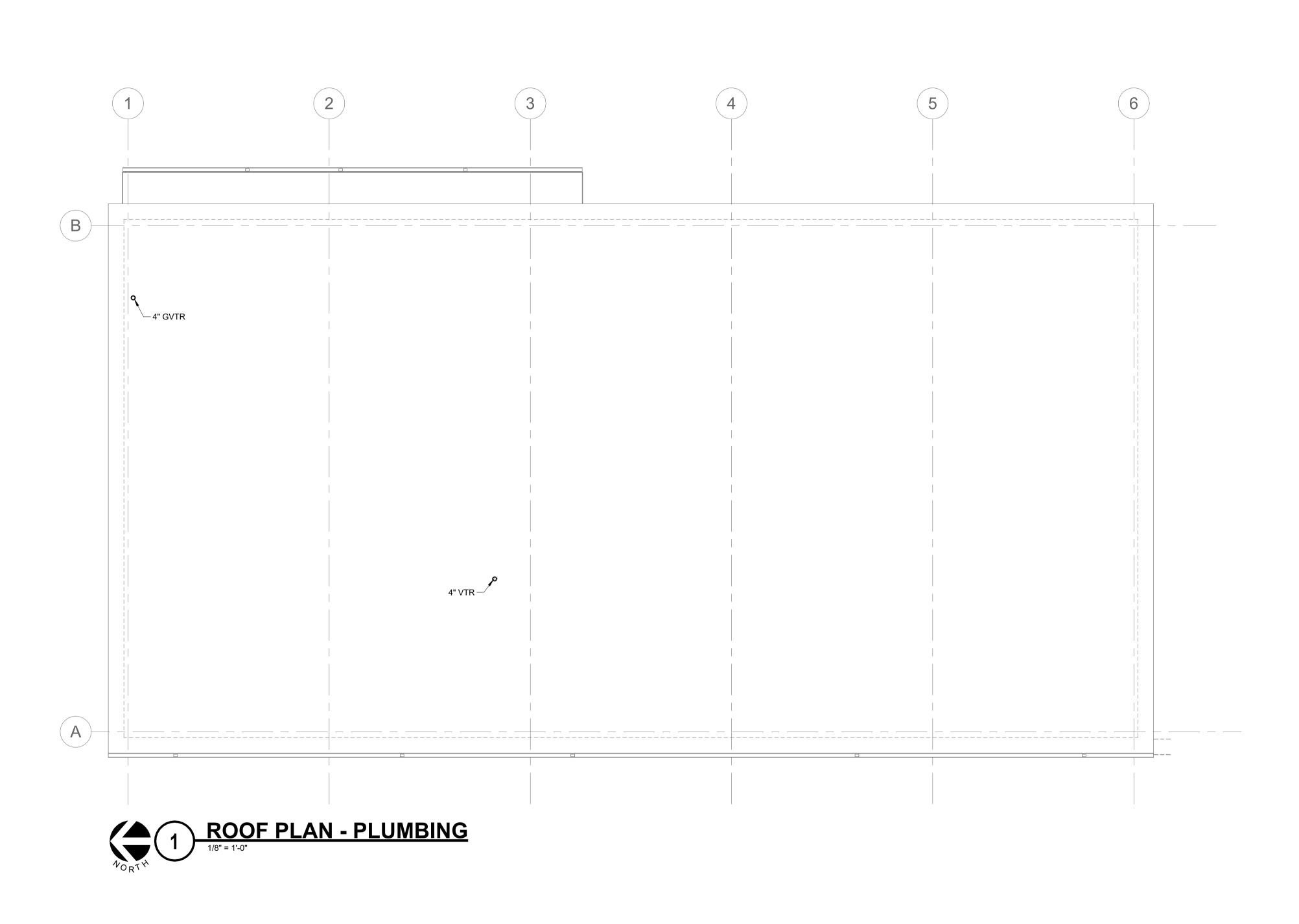
DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH PLUMBING FLOOR 15 SUNNEN DRIVE SUITE 104 ST. LOUIS, MO 63143 P: 314.645.1132 F: 314.645.1173

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P-101





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SIGNATURE 04-23-2024 DATE 11-30-2025 LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

PLUMBING ROOF PLAN

IS SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173

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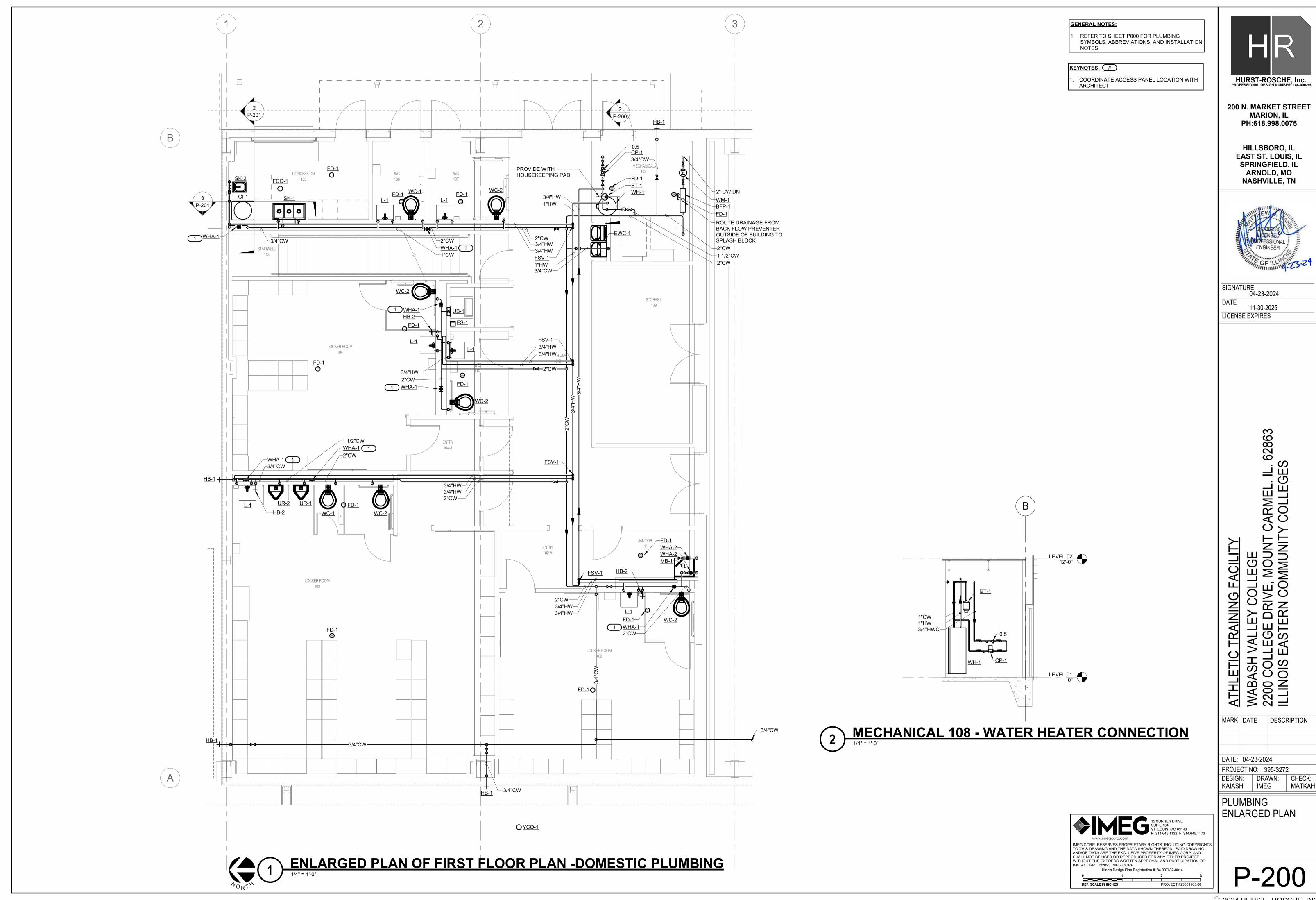
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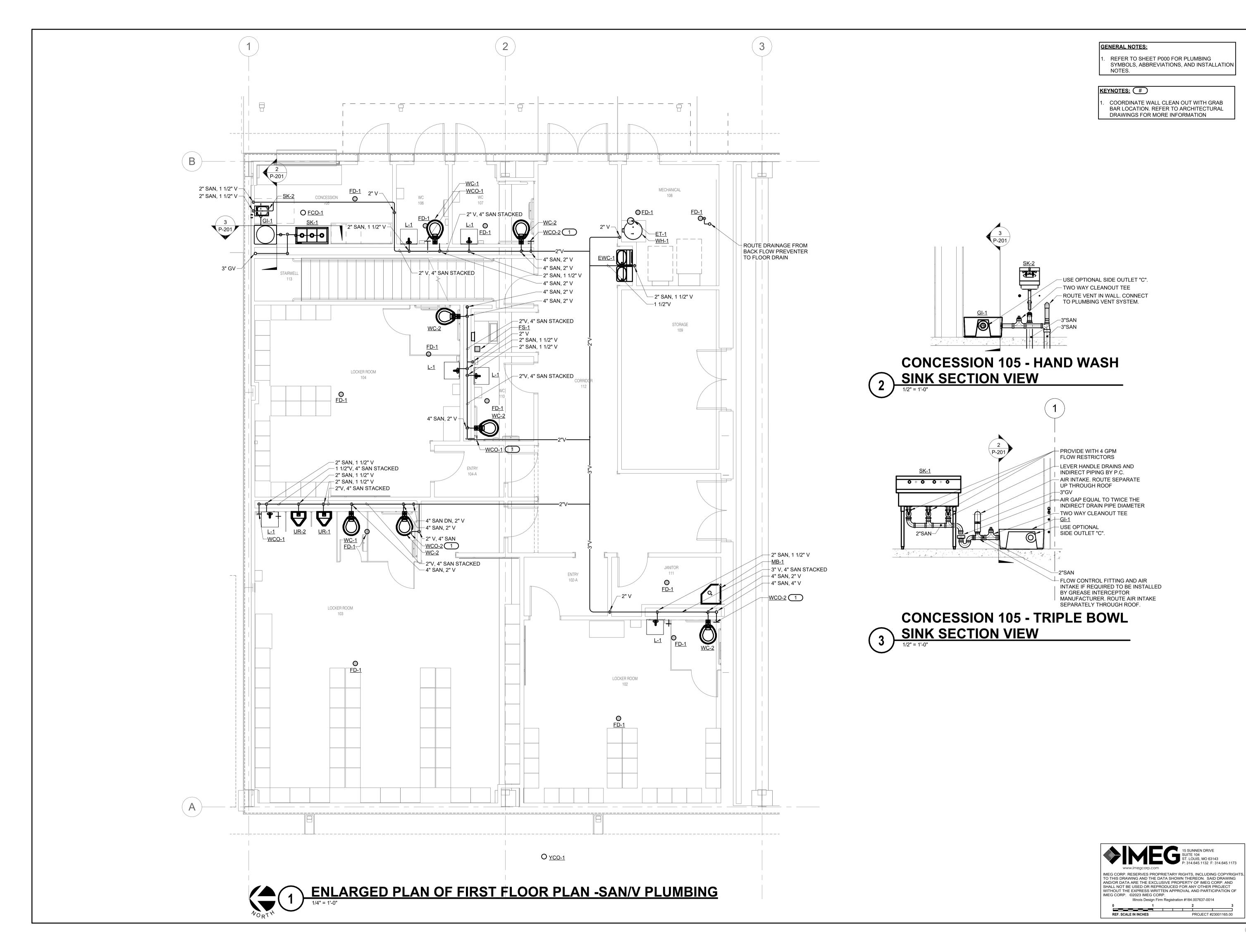
Illinois Design Firm Registration #184.007637-0014

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REF. SCALE IN INCHES PROJECT #23001165.00

P-102







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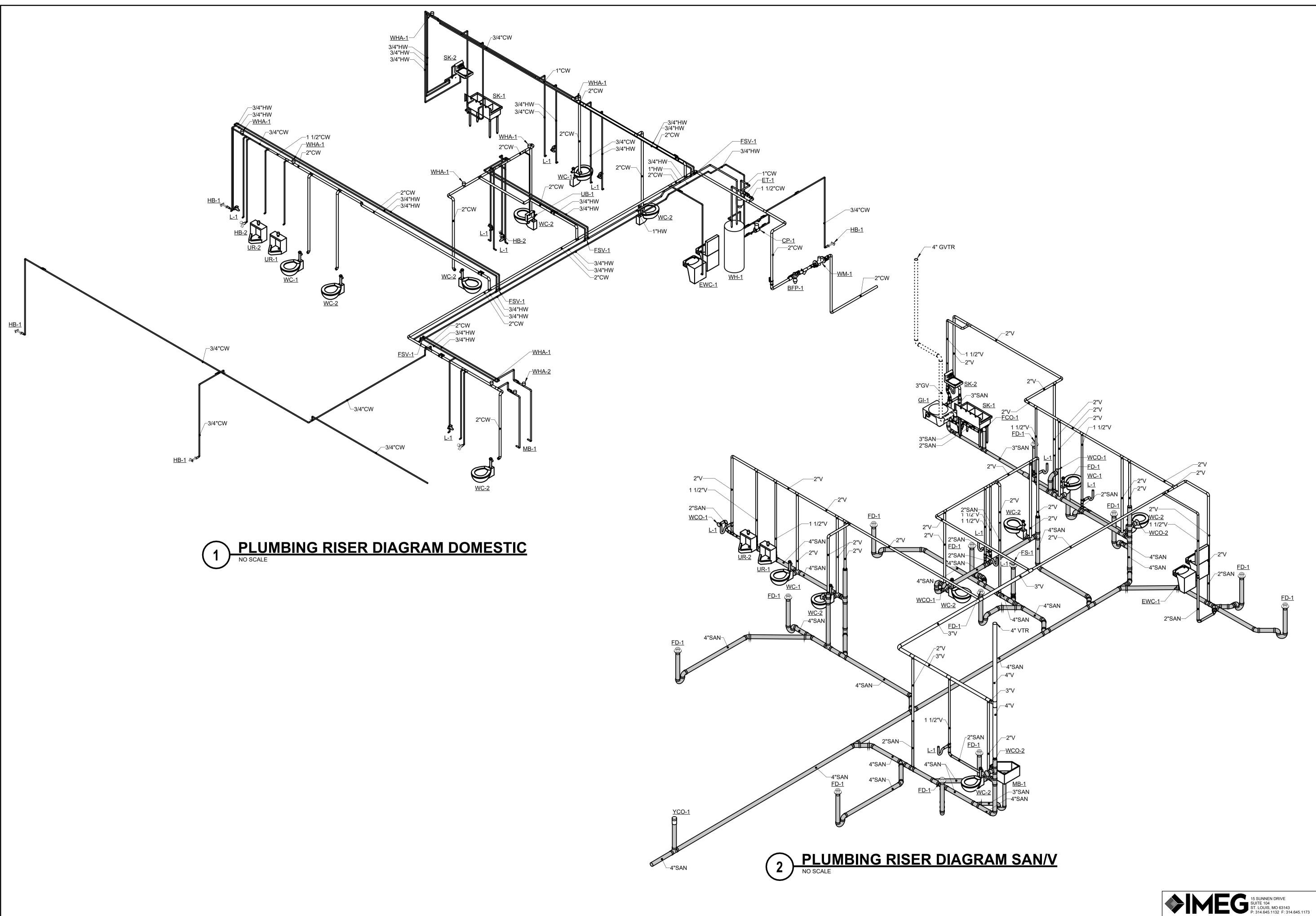
SIGNATURE 04-23-2024 11-30-2025

LICENSE EXPIRES

62863 CARMEL. IL. 7Y COLLEGE WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ( ILLINOIS EASTERN COMMUNITY ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH KAIASH

PLUMBING ENLARGED PLAN



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

200 N. MARKET STREET MARION, IL PH:618.998.0075

EAST ST. LOUIS, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04-23-2024 DATE

11-30-2025 LICENSE EXPIRES

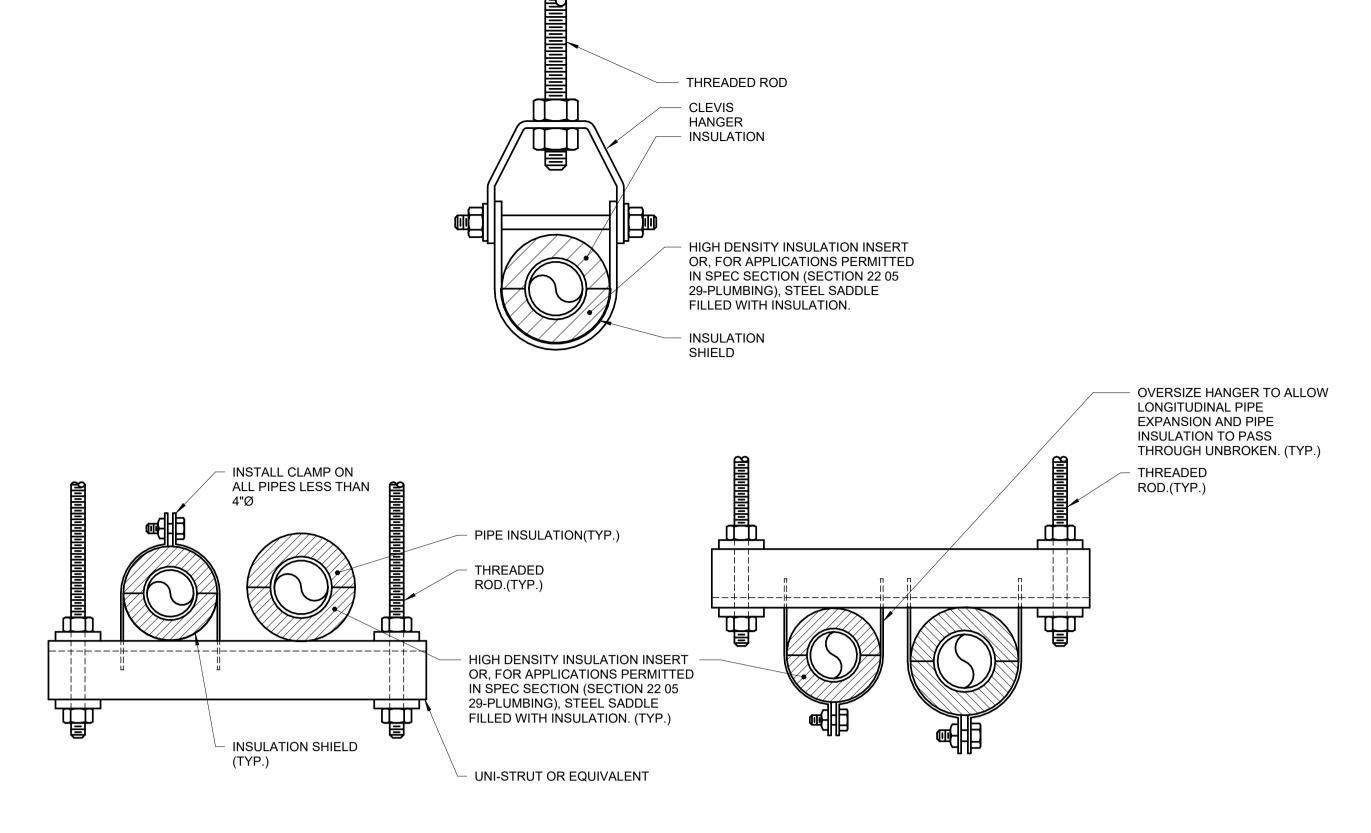
L. 62863 ES

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

> PLUMBING RISER DIAGRAM

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1. REFER TO SPECIFICATION SECTIONS SECTION 22 05 29-

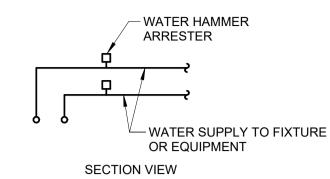
PIPE SUPPORT DETAIL

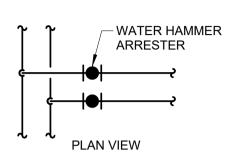
PLUMBING & SECTION 22 07 19-PLUMBING.

PROVIDE WATER HAMMER ARRESTER (WHA-1) AT PLUMBING FIXTURES AND QUICK CLOSING VALVES AS INDICATED ON DRAWINGS AND AS RECOMMENDED BY STANDARD PDI-WH201. REFER TO PLUMBING MATERIAL LIST FOR WATER HAMMER ARRESTER DESCRIPTION.

WATER HAMMER LOCATION AND SCHEDULE

### SINGLE / DOUBLE FIXTURE

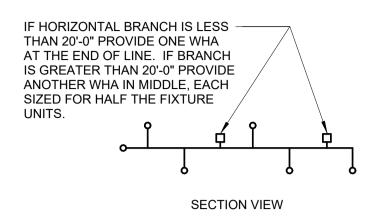


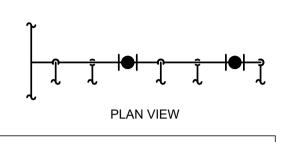


PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
Α	1/2"	1-11
В	3/4"	12-32
С	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330

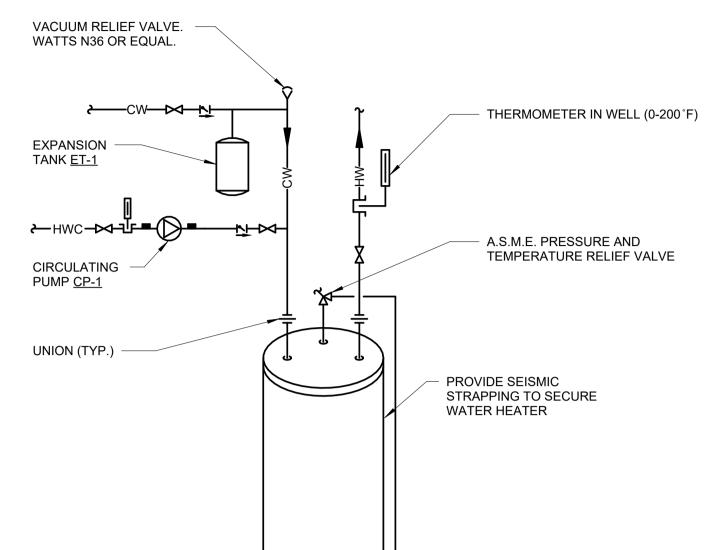
INSTALL WHA'S PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE WHA AS SHOWN PER THE TABLES ABOVE. PROVIDE ACCESSIBILITY TO WHA WITH ACCESS PANEL OR INSTALL ABOVE ACCESSIBLE CEILING.

## **MULTIPLE FIXTURES**

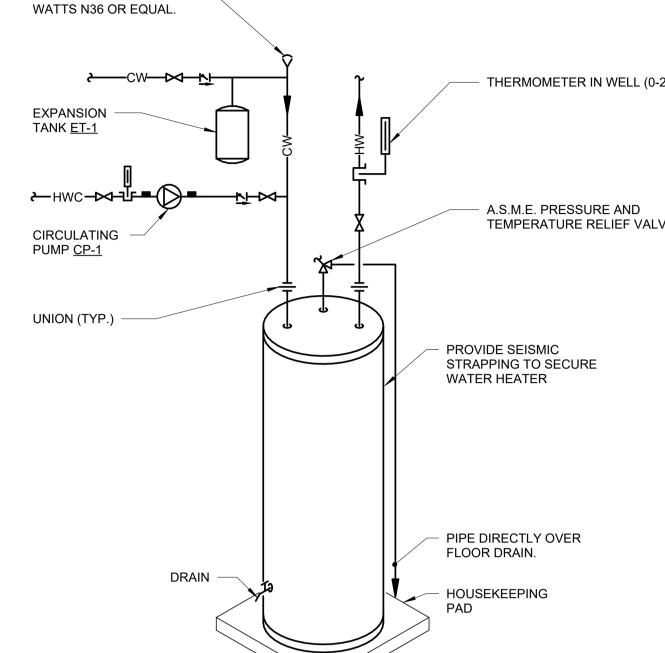




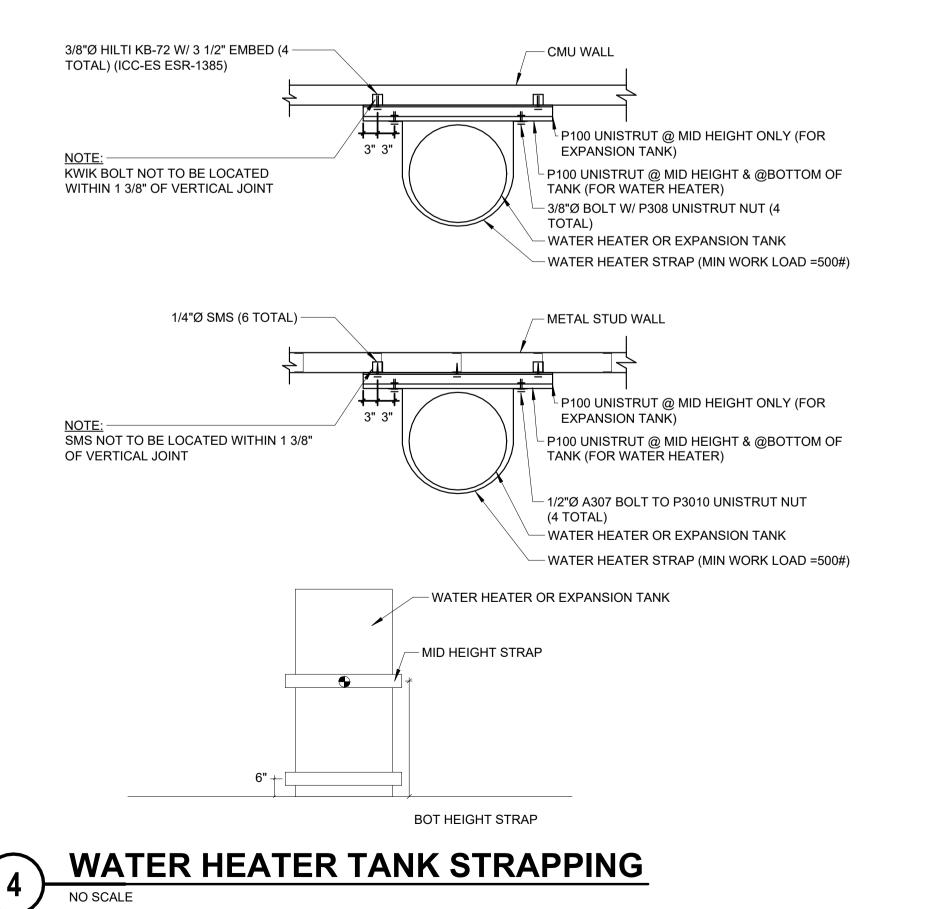
FIXTURE UNI	T CALCULATIO	ON
FIXTURE	COLD	НОТ
WATER CLOSET (F.V.)	10	
WATER CLOSET (TANK)	5	
URINAL	5	
LAVATORY	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	2	-
KITCHEN SINK	2	2
ICE MAKER / BEVERAGE	1	-

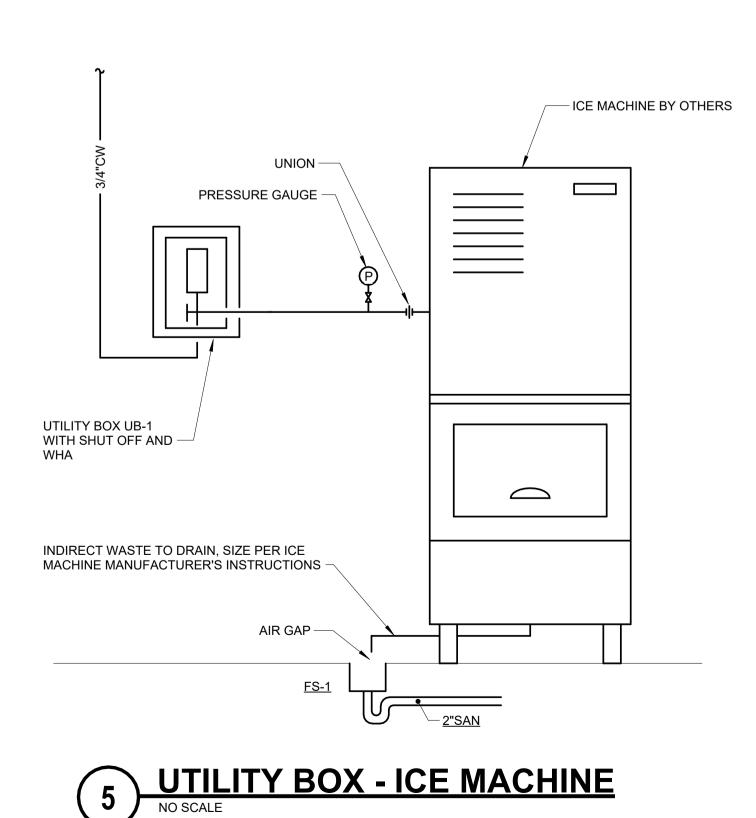


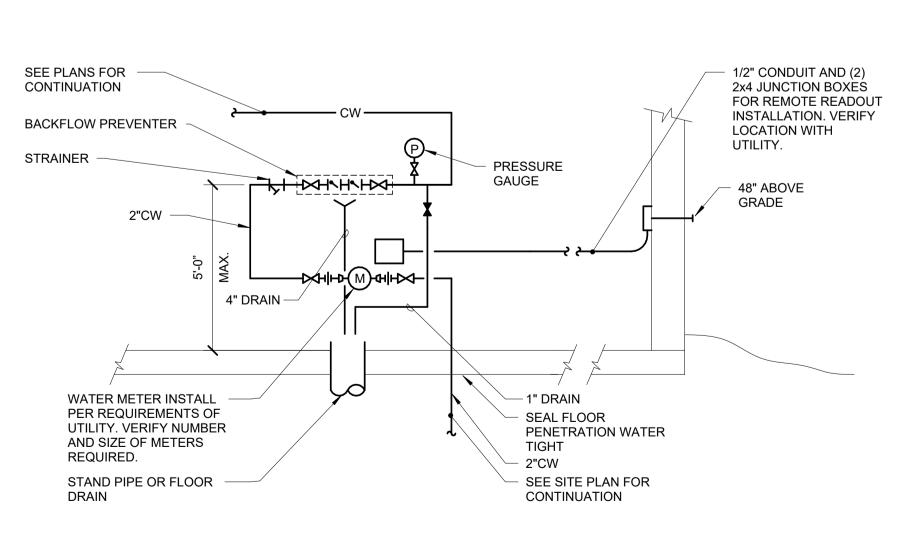
**WATER HEATER DETAIL** 











6 DOMESTIC WATER ENTRANCE
NO SCALE



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-00029

**200 N. MARKET STREET** MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04-23-2024 11-30-2025 LICENSE EXPIRES

62863 ARMEL WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT TRAINING FACILITY **ATHLETIC** MARK DATE DESCRIPTION

DATE: 04-23-2024

KAIASH

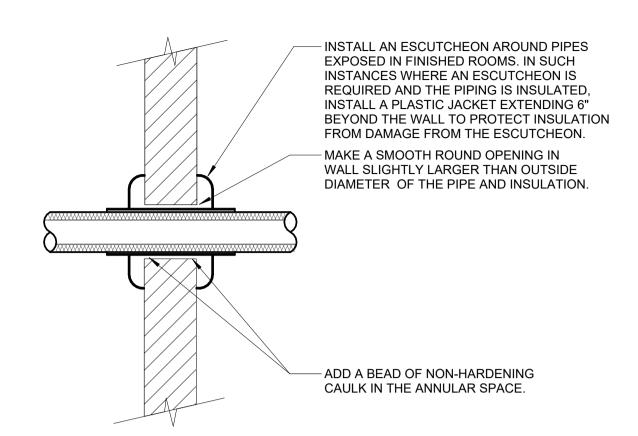
PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK:

MATKAH

IMEG

PLUMBING DETAILS

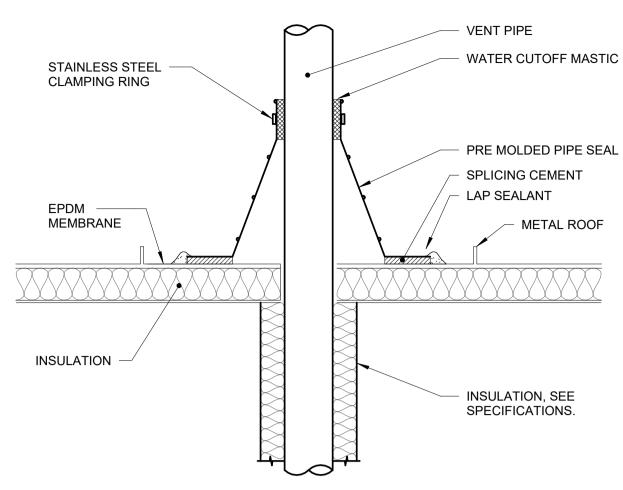


#### NOTES:

- 1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE
- TRANSMISSION CONTROL.

  2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 PLUMBING)
  FOR ADDITIONAL INFORMATION.
- 3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION (SECTION 22 05 29 PLUMBING) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

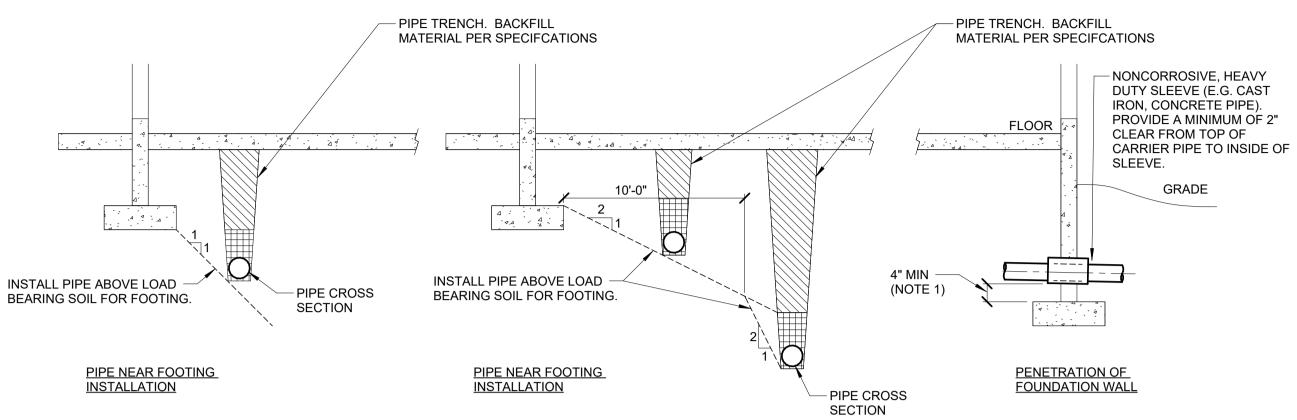
# 1 WALL PENETRATION - NON-FIRE RATED NO SCALE



#### NOTES:

- 1. VENT PIPE SHALL BE A MINIMUM OF 3" DIAMETER UNLESS NOTED LARGER ON FLOOR PLANS. INCREASERS, IF REQUIRED TO TRANSITION TO THE LARGER VTR SIZE, MUST BE INSTALLED AT LEGIST 12 INCHES BELOW THE THERMAL ENVELOPE OF THE
- 2. EXTEND VENT PIPE AT LEAST 7 FEET ABOVE ROOF LEVEL WHEN ROOF AREA IS INTENDED TO BE USED BY THE GENERAL PUBLIC. THIS INCLUDES PROMENADES, OBSERVATION DECKS, ETC. THIS IS NOT REQUIRED FOR ROOFS THAT ARE ACCESSIBLE BY MAINTENANCE PERSONEL ONLY.

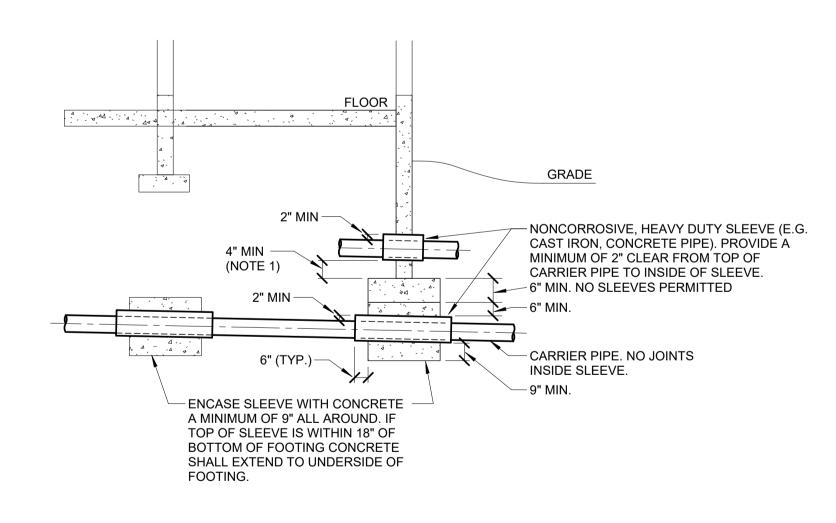




NOTES:

1. STEP FOOTING DOWN AS REQUIRED TO MAINTAIN MINIMUM DIMENSION.

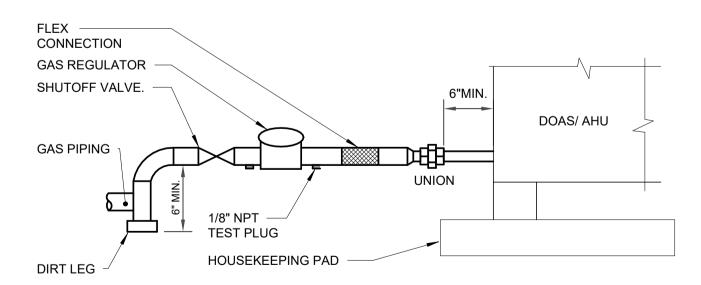
9 PIPE UNDERFLOOR TRENCH AND EXCAVATION/BACKFILL DETAIL
NO SCALE



NOTES:

STEP FOOTING DOWN AS REQUIRED TO MAINTAIN MINIMUM DIMENSION

PIPE UNDER FOOTING DETAIL
NO SCALE



DOAS/ AHU GAS PIPING CONNECTION DETAIL

NO SCALE

SIGNATURE
04-23-2024

DATE
11-30-2025

LICENSE EXPIRES

S:

HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298

200 N. MARKET STREET

MARION, IL

PH:618.998.0075

HILLSBORO, IL

EAST ST. LOUIS, IL

SPRINGFIELD, IL

ARNOLD, MO

NASHVILLE, TN

ATHLETIC TRAINING FACILITY

WABASH VALLEY COLLEGE

2200 COLLEGE DRIVE, MOUNT CARMEL. IL.

ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

PLUMBING DETAILS

SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173

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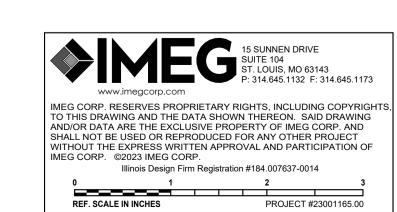
REF. SCALE IN INCHES PROJECT #23001165.00

P-301

AC NAME	PLUMBING MATERIAL LIST  DESCRIPTION	MANUFACTURER AND MODEL
BFP-1	DESCRIPTION  BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, LEAD FREE BRONZE CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, BALL STYLE SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED.  MOUNT WITHIN 60" OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT	MANUFACTURER AND MODEL  BACK FLOW PREVENTER - APOLLO (RPLF4A), WATTS (LF919), WILKINS (975XL2)
	AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.	
<u>CP-1</u>	CIRCULATING PUMP - VARIABLE SPEED CONTROLLER WITH SETTINGS TO ADJUST AND MAINTAIN A CONSTANT: SPEED, FIXED PRESSURE, OR PROPORTIONAL PRESSURE. LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, PERMANENTLY LUBRICATED SEALED BEARINGS, MECHANICAL SEAL, OIL LUBRICATED, ECM MOTOR WITH INTEGRATED VARIABLE SPEED CONTROL, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.	PUMP - GRUNDFOS (ALPHA2 15-55SF/LC), B&G (ECOCIRC SERIES), ARMSTRONG (COMPASS 20-20 SS SERIES)
	0.8 GPM @ 6 FEET OF HEAD.  ELECTRICAL REQUIREMENTS - HARD-WIRE	
<u>ET-1</u>	EXPANSION TANK - WELDED STEEL CONSTRUCTION, GUARANTEED AIRTIGHT AND LEAKPROOF, STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874.	EXPANSION TANK - AMTROL (THERM-X-TROL ST-12), B&G (PT), FLEXTRON (FTT), WATTS (PLT), WESSELS (T)
	MINIMUM TANK VOLUME TO BE 2 GALLONS MINIMUM ACCEPTING VOLUME TO BE 2 GALLONS	
	TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 125 PSIG. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 55 PSIG.	
EWC-1	ELECTRIC WATER COOLER - WALL HUNG, BI-LEVEL UNITS, ADA COMPLIANT WITH MATCHING STAINLESS STEEL APRON INSTALLED UNDER UPPER UNIT 18 GAUGE STAINLESS STEEL CABINETS AND NON-SPLASH BASINS WITH STAINLESS STEEL FINISH, STREAM PROJECTORS WITH PROTECTIVE HOODS, PUSH BAR OR LEVER OPERATING CONTROLS ON FRONT AND BOTH SIDES, BUILT-IN FLOW REGULATOR, PLASTIC P-TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS, HERMETIC COMPRESSOR TO OPERATE ON HFC-134a REFRIGERANT. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.	ELECTRIC WATER COOLER -ELKAY (LZST), OASIS (PG8EBFSL) MURDOCK (A172), HALSEY TAYLOR (HTHB-HAC8BLSS-WF)
	BOTTLE FILLING STATION - UNIT MOUNTED, STAINLESS STEEL CONSTRUCTION AND FINISH, INTEGRAL DRAIN, SENSOR OPERATED WITH AUTOMATIC SHUTOFF, REPLACEABLE LEAD-CHLORINE-TASTE-ODOR WATER FILTER, BOTTLE COUNTER, FILTER REPLACEMENT INDICATOR.	
	UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TANK SHALL BE TESTED TO 125 PSIG.	
	ORIFICE SHALL BE AT 36" (MAXIMUM) ABOVE FINISHED FLOOR ON LOWER UNIT AND 40" ABOVE FINISHED FLOOR ON UPPER UNIT. BOTTOM OF APRON SHALL BE 27" ABOVE FLOOR ON LOWER UNIT IN COMPLIANCE WITH LATEST ADA STANDARDS.	
	ELECTRICAL REQUIREMENTS - CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSURE, GFCI BREAKER.	
FCO-1	FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:  UNFINISHED FLOOR - ROUNDSOLID SCORIATED TOP TILE OR TERRAZZO - ROUND RECESSED TOP	FLOOR CLEANOUT - ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000), WADE (6000), WATTS (CO-200)
<u>FD-1</u>	FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 4" BOTTOM OUTLET, FLASHING COLLAR.	FLOOR DRAIN - ZURN (Z-415), SMITH (2005), WADE (1100), JOSAM
	TRAP SEAL - 4", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.	(30000), WATTS (FD-100), MIFAB (F1100), SUN (FD1000)  TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), GREEN DRAIN, MIFAB (MI-GARD), ZURN (Z1072)
FSV-1	FLOW SPLITTER VALVE - SAME SIZE AS PIPE, LEAD-FREE CORROSION RESISTANT RED BRASS BODY, DUAL TEE ASSEMBLY VALVE, INTERNAL SELF-ADJUSTING FLOW REGULATOR, FACTORY LOOP LINE QUARTER TURN SHUT OFF VALVES, FACTORY INULATION JACKET, BUILT-IN SELF REGULATING, SELF CLEANING, REPLACEABLE, DYNAMIC VENTURI STYLE FLOW DIVERTING CARTRIDGE INSERT. NSF 61/372 CERTIFIED.	FLOW SPLITTING VENTURI - KEMPER (651 06)
	CONFIGURED WITH FEMALE NPT THREAD CONNECTIONS AND QUARTER TURN FULL BORE STOP VALVES ON LOOP LINE CONNECTIONS.	
	RECIRCULATION PIPING FROM FLOW SPLITTER SHALL BE RUN TO CONNECTION POINT OF ANGLE STOPS SERVING FIXTURES.	
	INSTALL PER MANUFACTURERS RECOMMENDATIONS.	
<u>FS-1</u>	FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 8" ROUND, 4" BOTTOM OUTLET, SHALLOW RECEPTOR WITH STAINLESS STEEL MESH STRAINER, ACID RESISTANT COATED INTERIOR. SEEPAGE ELANGE WITH CLAMP	FLOOR SINK - ZURN (Z1970), SMITH (3021), WADE (9000), JOSAM
<u>GI-1</u>	INTERIOR, SEEPAGE FLANGE WITH CLAMP.  GREASE INTERCEPTOR - FLOOR MOUNTED, STEEL CONSTRUCTION, INTERNAL ACID RESISTANT COATING, REMOVABLE BAFFLES, INTEGRAL AIR RELIEF, FLOW CONTROL FITTING, INTEGRAL CLEANOUT, GASKETED POLYPROPYLENE COVER WITH LOCK AND LIFT RING, PDI G101 COMPLIANT, BDI APPROVED AND LISTED FOR USE	(49500), MIFAB (FS1750)  GREASE INTERCEPTOR - SCHIER GB1
<u>HB-1</u>	PDI APPROVED AND LISTED FOR USE.  15 GPM FLOW, 30 LB. GREASE CAPACITY, 7.5 GALLONS HOLDING CAPACITY  HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH,  NON EERBOUS METAL STEM AUTOMATIC PRAINING VACUUM PREAMER 2/47 MALE HOSE TUREAR	HOSE BIB - PRIER (C-634),
	NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, KEY OPERATED, ASSE 1019 OR 1052 LISTED AND APPROVED.  VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.	WOODFORD (67), WATTS (HY-420), MIFAB (MHY-10), SMITH (5619), WADE (8600), ZURN (Z1310)
<u>HB-2</u>	HOSE BIBB - FOR INDOOR USE, BRASS CONSTRUCTION, POLISHED CHROME-PLATED FINISH,	HOSE BIB - PRIER (C-255CP.75),
	VACUUM BREAKER, 3/4" MALE HOSE THREAD, 3/4" FLANGED I.P.S. INLET, REMOVABLE TEE HANDLE, ASSE 1011 LISTED AND APPROVED.	CHICAGO FAUCET (952), ACORN (8121CP-LF), T&S BRASS (B-0720), MIFAB (MHY-9241)

AG NAME	DESCRIPTION  LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED	MANUFACTURER AND MODEL LAVATORY - AMERICAN STANDARD
	BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.  LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED	(0356.421), KOHLER (K-2007), SLOAN (SS-3103), TOTO (LT307), ZURN (Z5361)
	FINISH, CONVENTIONAL SPOUT WITH AERATOR, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, WATERPROOF CONNECTORS AND CABLE.  MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW	MIXING VALVE - WATTS (LFUSG-B), LEONARD (170D-LF), LAWLER (TMM-1070T) ACORN CONTROLS (ST70), APOLLO (34DLF), POWERS (LFE480), SLOAN (MIX-135-A), SYMMONS (8210CK), WILKINS
	LAVATORY.  MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE	(ZW3870XLT)  LAVATORY TRIM - HYDROTEK (H-2603C-LR MOEN (8302), ZURN (Z6913-XL), AMTC
	RESTRICTIVE DEVICE AS REQUIRED. MOUNT MIXING VALVE UNDER COUNTER/LAVATORY. MIXING VALVE SHALL NOT BE WYE PATTERN STYLE.  MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER	(AEF-301) INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX
	RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET.  PROGRAMMING UNIT - HAND HELD, CAPABLE OF CHANGING SETTINGS, RUNNING DIAGNOSTICS,	(PRO-EXTREME)
	AND SCAN FAUCETS WITH ISSUES. PROVIDE ONE CONTROLLER.  ELECTRONIC SENSOR FAUCETS SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 30 SECONDS ONCE PER DAY,	
	INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.	
	ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.	
	MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.	
MB-1	MOP BASIN - NEO-ANGLE CORNER STYLE, PRECAST TERRAZZO, 24"x18"x12", 6" DEEP FRONT, STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, STAINLESS STEEL THRESHOLD.	MOP BASIN - FIAT (TSBC1610) (TSBC1612), ACORN (TNC-24) (TNC-36), CREATIVE INDUSTRIES (MCNC24) (MCNC36),
	TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874.	WILLIAMS (SBC-1700) (SBC-1750)  TRIM - DELTA (28C2383), AMERICAN STANDARD (8344.012), CHICAGO FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN
	MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, THREADED INLETS, TAMPER RESISTANT SETPOINT, 3/8" COMPRESSION INLETS AND OUTLETS, COLD WATER BYPASS IF USED WITH MIXING FAUCET.	(Z841M1-XL)
	CABINET - SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET STOPS, OUTLET THERMOMETER, AND OUTLET VALVES.	
	RATED FOR 2.3 GPM OUTPUT MAXIMUM AT 10 PSI DIFFERENTIAL AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET.	
	UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.	
	ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP TWO 24" WIDE STAINLESS STEEL WALL GUARD.	
<u>SK-1</u>	SINK - TRIPLE COMPARTMENT, 14 GAUGE STAINLESS STEEL, 39" (SIDE-TO-SIDE) x 19 13/16" (FRONT-TO-BACK) OVERALL SIZE, EACH COMPARTMENT 10" x 14" x 12" DEEP, 8" BACKSPLASH WITH SLOPING TOP, 3-1/2" DIAMETER DRAIN OUTLETS, 14 GAUGE STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE BULLET SHAPED FEET, NSF COMPLIANT.	SINK - ELKAY (WNSF), JUST (NSFB), FRANKE COMMERCIAL (WTL) SINK TRIM - CHICAGO FAUCET (445-DJ18ABCP), T&S BRASS (B-0265),
	SINK TRIM - TWO HANDLE MIXING VALVE, BRASS CONSTRUCTION, CHROME-PLATED FINISH, INDEXED LEVER HANDLES, ADJUSTABLE SUPPLY ARMS, WALL/SPLASH GUARD MOUNTED, INTEGRAL STOPS, 18" DOUBLE JOINTED SWINGING SPOUT, AERATOR.	ZURN (Z-841K1-XL)
	ACCESSORIES - REMOVABLE STRAINER PLATES AND NEOPRENE STOPPERS, 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECES AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES.	
<u>SK-2</u>	SINK - WALL MOUNTED, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL DIMENSIONS 12" WIDE BY 14.25" FRONT TO BACK BY 6.75" DEEP, SPLASH MOUNTED FAUCET HOLES, NSF APPROVED.	SINK - EAGLE GROUP (HSA-10-F-LRS), KROWNE, ADVANCE TABCO, ELKAY, FRANKE, JUST MFG.
	SINK TRIM - INCLUDED WITH SINK BY SAME MANUFACTURER, GOOSENECK, REAR SPLASH MOUNTED STYLE, FAUCET MOUNTING ON 4" CENTERS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE ESCUTCHEON PLATE AS REQUIRED. PROVIDE 15 GPM RESTRICTIVE DEVICE ON COMBINED DRAIN FROM SINK TO AIR GAP.	
	ACCESSORIES - REMOVABLE TYPE 304 STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER, 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.	
	TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU	
<u>UB-1</u>	UTILITY BOX - UNPAINTED GALVANIZED STEEL OR WHITE PAINTED STEEL ENCLOSURE, MATCHING FACEPLATE, ANGLE VALVE WITH 1/4" COMPRESSION OUTLET, INTREGAL WATER HAMMER ARRESTOR. PROVIDE A 6 FOOT STAINLESS STEEL FLEXIBLE HOSE FOR CONNECTION TO EQUIPMENT.	UTILITY BOX - GUY GRAY (BIM875AB), OATEY (39140 WITH 38686 FACEPLATE)
<u>UR-1</u>	URINAL - WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET.	URINAL - AMERICAN STANDARD (6590.001) KOHLER (K-4991-ET), SLOAN (SU-1006/SU-1009), GERBER (27-780), TOTO
	FLUSH VALVE - EXPOSED, SENSOR OPERATION, BATTERY POWERED, 0.5 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.	(UT447), ZURN (Z5750)  FLUSH VALVE - ZURN (ZER6003AV), SLOAN
	ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY.	
	CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN	
	ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.	
	MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 22" ABOVE FLOOR. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	

G NAME	PLUMBING MATERIAL LIST DESCRIPTION	MANUFACTURER AND MODEL				
UR-2	URINAL - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET.  FLUSH VALVE - EXPOSED, SENSOR OPERATION, BATTERY POWERED, 0.5 GALLONS PER FLUSH,	URINAL - AMERICAN STANDARD (6590.001), KOHLER (K-4991-ET), SLOAN (SU-1006/SU-1009), GERBER (27-780), TOTO (UT447), ZURN				
	11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.	(Z5750)  FLUSH VALVE - ZURN (ZER6003AV), SLOAN (186SFSM), AMERICAN STANDARD (6063.051), HYDROTEK				
	ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY.	(HB8-B1-05), MOEN (8315), KOHLER (K-10958-SV-CP), TOTO (TEU1LA12#CP), AMTC (AEF-801-CU-05)				
	CONTRACTOR OPTION: COMBINATION URINAL/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN  ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.					
	MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 17" (MAXIMUM) ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.					
WC-1	WATER CLOSET - WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD.  FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.28 GALLONS PER FLUSH, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL,	WATER CLOSET - AMERICAN STANDARD (2257.101), GERBER (25-030), KOHLER (K-84325), SLOAN (ST-2053), TOTO (CT708), ZURN (Z5610)				
	VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, 3 YEAR WARRANTY.	FLUSH VALVE - ZURN (ZER6000AV-HET), SLOAN (111-1.28SFSM), AMERICAN				
	ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY.  SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC,	STANDARD (6065.121 OR 6047SM.121), HYDROTEK (HB8-128), MOEN (8311), KOHLER (K-10956-SV-CP), TOTO				
	SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.  CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN	(TET1LA32#CP), AMTC (AEF-801-CT-12) SEAT - BEMIS (3155SSCT), CHURCH				
	ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.	(3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER				
	MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.					
<u>WC-2</u>	WATER CLOSET - ACCESSIBLE, WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD.	WATER CLOSET - AMERICAN STANDARD (2257.101), GERBER (25-030), KOHLER (K-84325), SLOAN				
	FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.28 GALLONS PER FLUSH, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, 3 YEAR WARRANTY.	(ST-2053), TOTO (CT708), ZURN (Z5610) FLUSH VALVE - ZURN (ZER6000AV-HET), SLOAN (111-1.28SFSM), AMERICAN				
	ELECTRONIC SENSOR FLUSH VALVES SHALL HAVE PROGRAMMABLE AUTOMATIC FLUSH SET FOR 1 FLUSH PER DAY.	6047SM.121), HYDROTEK (HB8-128), MOEN (8311), KOHLER				
	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.  CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY	(K-10956-SV-CP), TOTO (TET1LA32#CP), AMTC (AEF-801-CT-12)				
	AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN  ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.	SEAT - BEMIS (3155SSCT), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER				
	MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	CLOSET MANUFACTURER				
WCO-1	WALL CLEANOUT - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, VANDAL RESISTANT ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.	WALL CLEANOUT - ZURN (Z-1441), SMITH (4422), WADE (W-8480-R/8550), JOSAM (58600-CO), WATTS (CO-380-RD), MIFAB (C1450-RD)				
WCO-2	WALL CLEANOUT - TEE, CAST IRON ACCESS BODY, GAS AND WATERTIGHT THREADED PLUG, VANDAL RESISTANT ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.	WALL CLENAOUT - ZURN (Z-1446), SMITH (4530), WADE (8560), JOSAM (58910), WATTS (CO-460), MIFAB (C1460-RD)				
WH-1	WATER HEATER - ELECTRIC, VERTICAL, METAL CABINET, BAKED ENAMEL FINISH, GLASS-LINED WELDED STEEL TANK, 150 PSI WORKING PRESSURE, FIBERGLASS OR FOAM INSULATION, BRASS WATER CONNECTIONS AND DRAIN VALVE, ASME APPROVED T&P RELIEF VALVE, MAGNESIUM ANODE ROD, LOW WATT DENSITY IMMERSION ELEMENTS, AUTOMATIC THERMOSTAT WITH EXTERNAL ADJUSTMENT, HIGH TEMPERATURE CUTOFF SWITCH, ENCLOSED CONTROLS AND ELECTRICAL JUNCTION BOX, 1-YEAR WARRANTY, UL LISTED, COMPLIANT TO NAECA, ASHRAE 90.1 AND ASHRAE 90A.	WATER HEATER - A.O. SMITH (DVE), AMERICAN (ITCE31), BOCK (F SERIES), BRADFORD WHITE (M-II), RHEEM/RUUD (E SERIES), STATE (SSE), HTP (CGE SERIES HEAVY DUTY)				
	50 GALLON CAPACITY, 6 KW ELEMENT(S), 25 GPH RECOVERY AT 100°F RISE. HEATING ELEMENTS RATED FOR LESS THAN 75 WATTS PER SQUARE INCH					
	SET WATER TEMPERATURE AT 140°F.					
WHA-1	WATER HAMMER ARRESTOR – PISTON TYPE, PRE-CHARGED WITH 60 PSIG AIR, LEAD FREE, COPPER BODY, BRASS OR HIGH HEAT POLY-PROPYLENE PISTON WITH DUAL EPDM O-RING SEALS LUBRICATED WITH FDA APPROVED SILICONE LUBRICANT. PDI CERTIFIED, A.S.S.E. 1010 APPROVED FOR SEALED WALL INSTALLATION, RATED FOR 12-32 FIXTURE UNITS.	WATER HAMMER ARRESTOR - WATTS (LF15M2-DR), SIOUX CHIEF (650 SERIES), MIFAB (MWH), PPP (SC SERIES), ZURN WILKINS (1250XL), JR SMITH (5201-5250),				
WHA-2	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  WATER HAMMER ARRESTOR – PISTON TYPE, PRE-CHARGED WITH 60 PSIG AIR, LEAD FREE,	WADE (WP5-100), JOSAM (75000-S)  WATER HAMMER ARRESTOR -				
	COPPER BODY, BRASS OR HIGH HEAT POLY-PROPYLENE PISTON WITH DUAL EPDM O-RING SEALS LUBRICATED WITH FDA APPROVED SILICONE LUBRICANT. PDI CERTIFIED, A.S.S.E. 1010 APPROVED FOR SEALED WALL INSTALLATION, RATED FOR 1-11 FIXTURE UNITS.  INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	WATTS (LF15M2-DR), SIOUX CHIEF (650 SERIES), MIFAB (MWH), PPP (SC SERIES), ZURN WILKINS (1250XL), JR SMITH (5201-5250), WADE (WP5-100), JOSAM (75000-S)				
<u>WM-1</u>	WATER METER - COMPOUND TYPE INCLUDING NUTATING DISC FOR LOW FLOW AND AWWA CLASS 2 TURBINE FOR FLOW, LEAD FREE BRONZE CONSTRUCTION, 2" SIZE, TOP READING	WATER METER - NEPTUNE (TRU/FLO), BADGER, HERSEY				
<u>YCO-1</u>	CUMULATIVE DIAL WITH FACE PLATE CAP AND REMOTE READOUT, AWWA COMPLIANT.  YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER	YARD CLEANOUT - ZURN (Z1474), SMITH (4261) WADE (8401) JOSAM				
	FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	SMITH (4261), WADE (8401), JOSAM (58680), WATTS (CO-300-MF), MIFAB (C1300-MF)				





200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE
04-23-2024

DATE
11-30-2025

LICENSE EXPIRES

EGES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL. (
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

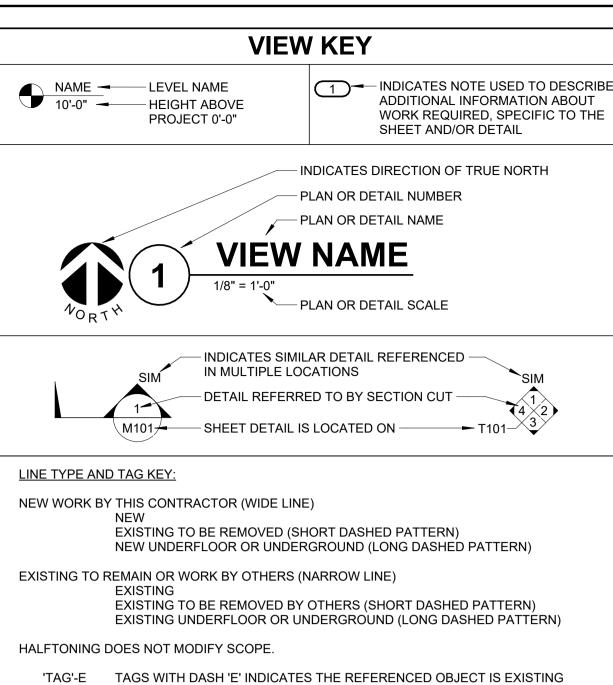
DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

PLUMBING SCHEDULES

P-400



	CONTRACTOR ABBREVIATION KEY													
	NOT ALL SYMBOLS MAY APPLY.													
ABBR:	DESCRIPTION:													
C.C.	CIVIL CONTRACTOR													
C.M.	CONSTRUCTION MANAGER													
E.C.	ELECTRICAL CONTRACTOR													
G.C.	GENERAL CONTRACTOR													
M.C.	MECHANICAL CONTRACTOR													
P.C.	PLUMBING CONTRACTOR													
V.C.	VENTILATION CONTRACTOR													

FII	RE / SMOKE BARRIER DESIGNATIONS
V.C.	VENTILATION CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
C.C.	CIVIL CONTRACTOR

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR

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SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL

MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

2 HOUR FIRE BARRIER OR WALL

			-
INDICATES DIRECTION OF TRUE NORTH		DIRECTION OF AIR FLOW	
PLAN OR DETAIL NUMBER		FLEXIBLE DUCT	
PLAN OR DETAIL NAME		MANUAL VOLUME DAMPER	
VIEW NAME  1/8" = 1'-0"	- R	RISE IN DIRECTION OF AIR FLOW	
PLAN OR DETAIL SCALE	D }	DROP IN DIRECTION OF AIR FLOW	
/— INDICATES SIMILAR DETAIL REFERENCED —		DUCT CAP	
IN MULTIPLE LOCATIONS  SIM  DETAIL REFERRED TO BY SECTION CUT  1		DUCT DOWN	
M101 SHEET DETAIL IS LOCATED ON T101		DUCT UP	
AND TAG KEY:	$\boxtimes$	SUPPLY/OUTSIDE AIR DUCT SECTION	
BY THIS CONTRACTOR (WIDE LINE)		RETURN AIR DUCT SECTION	
NEW EXISTING TO BE REMOVED (SHORT DASHED PATTERN) NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)		EXHAUST/RELIEF AIR DUCT SECTION	
O REMAIN OR WORK BY OTHERS (NARROW LINE) EXISTING		4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION	
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	<u>SD-1</u> 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM	
G DOES NOT MODIFY SCOPE.	©	CARBON MONOXIDE SENSOR	
TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING		CARBON DIOXIDE SENSOR	
UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL		CARBON DIOXIDE SENSOR	
INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST	© B <sup>2</sup>	HUMIDISTAT SENSOR	
INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL	H	HUMIDISTAT/SENSOR (DUCT MOUNTED)	
	<b>○</b>	OCCUPANCY SENSOR	
	(P)	PRESSURE SENSOR/MONITOR	
CONTRACTOR ABBREVIATION KEY	P	PRESSURE SENSOR (DUCT MOUNTED)	
NOT ALL SYMBOLS MAY APPLY.	①	THERMOSTAT/SENSOR	
NOT ALL STRIBOLS MAT APPLY.		TEMPERATURE SENSOR (DUCT MOUNTED)	
DESCRIPTION:		THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE	
CIVIL CONTRACTOR	XX-Y	AIRFLOW MEASUREMENT SYMBOL	
CONSTRUCTION MANAGER		XX - AHU SYMBOL Y - SEQUENTIAL NUMBER	
ELECTRICAL CONTRACTOR		1 - SEGSENTIAL NOVIDEN	
GENERAL CONTRACTOR			
MECHANICAL CONTRACTOR			

SYMBOL: DESCRIPTION:

	VENTILATION ABBREVIATION KEY											
	NOT ALL SYMBOLS MAY APPLY.											
ABBR:	DESCRIPTION:											
AD	ACCESS DOOR											
AFF	ABOVE FINISHED FLOOR											
CFSD	CONTROL/FIRE/SMOKE DAMPER											
DN	DOWN											
EA	EXHAUST/RELIEF AIR											
FD	FIRE DAMPER											
FOB	FLAT ON BOTTOM											
FOT	FLAT ON TOP											
FSD	FIRE/SMOKE DAMPER											
MA	MIXED AIR											
N.C.	NORMALLY CLOSED											
NIC	NOT IN CONTRACT											
N.O.	NORMALLY OPEN											
OA	OUTSIDE AIR											
RA	RETURN AIR											
SA	SUPPLY AIR											
SCCR	SHORT CIRCUIT CURRENT RATING											
SD	SMOKE DAMPER											
TAB	TERMINAL AIR BOX											
TD	TRANSFER DUCT											
TYP	TYPICAL											
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)											
1												

UNLESS OTHERWISE NOTED

**VENTILATION SYMBOL LIST** 

NOT ALL SYMBOLS MAY APPLY.

#### **VENTILATION GENERAL NOTES:**

- 1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- 2. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO
- 3. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

#### **MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
- 3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE
- HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN. 4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- 5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING
- WITH FABRICATION OR EQUIPMENT ORDERS. 6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- 7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- 8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- 9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS, THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- 12. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- 13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS
- WITHIN ROOMS. 14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL
- RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS,
- PIPING, DUCTWORK, ETC. 16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- 18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6 '-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
- 19. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL
- EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 20. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED, ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

### **TAB POST-CONSTRUCTION NOTES:**

- 1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION
- 2. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- 3. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.



200 N. MARKET STREET MARION, IL PH:618.998.0075

HILLSBORO, IL **EAST ST. LOUIS, IL** SPRINGFIELD. IL ARNOLD, MO NASHVILLE, TN



**SIGNATURE** 04-23-2024 11-30-2025 LICENSE EXPIRES

> 62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT TRAINING FACILITY ATHLETIC

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK:

IMEG

MATKAH

**VENTILATION COVERSHEET** 

KAIASH

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REF. SCALE IN INCHES

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ALL EXTERIOR DUCT TO BE INSULATED AS PER SPECIFICATION SECTION 23 32 00. SLOPE EXTERIOR DUCTS TO AVOID WATER POOLING AS PER SPECIFICATION SECTION 23 32 00.



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> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



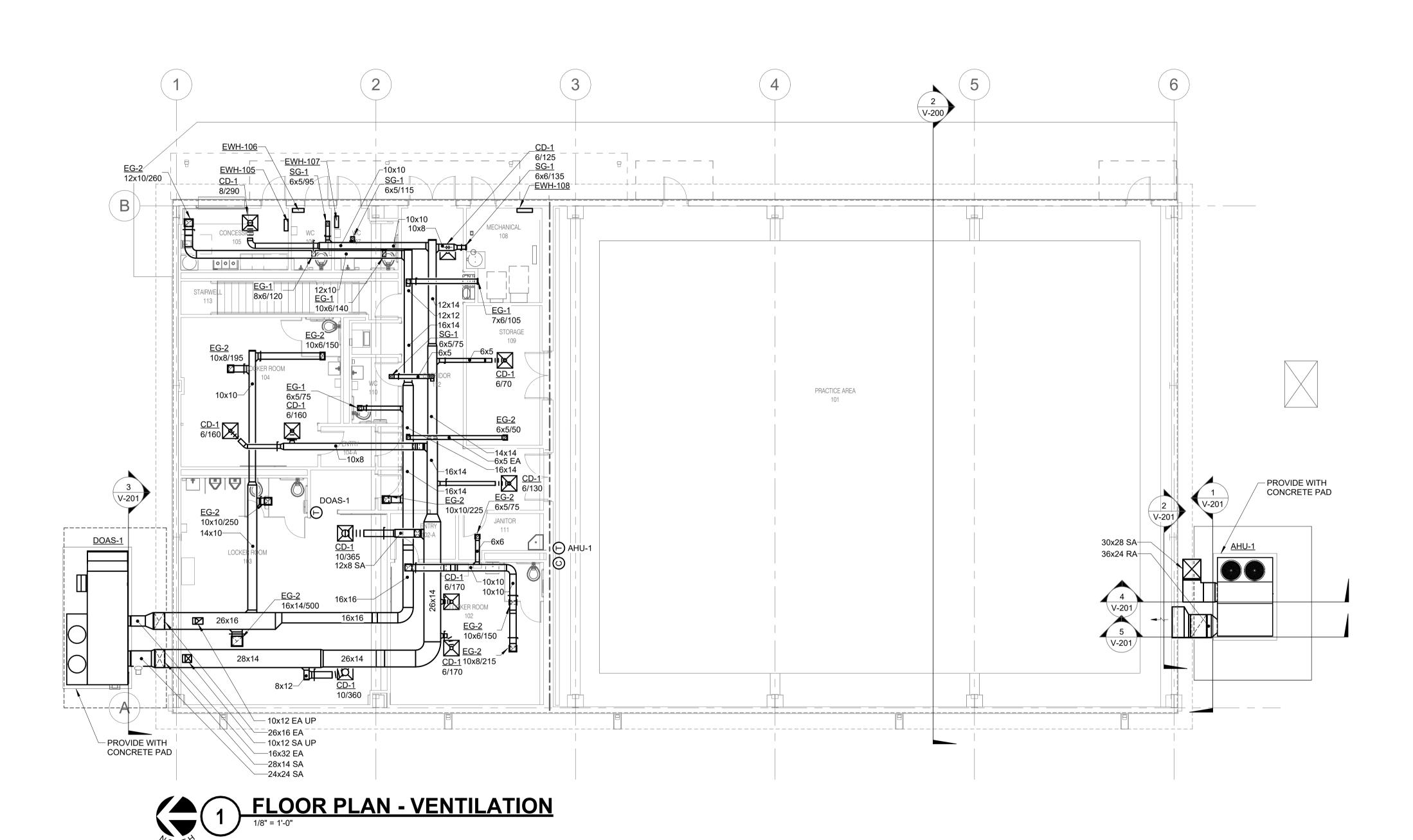
SIGNATURE 04-23-2024 DATE 11-30-2025 LICENSE EXPIRES

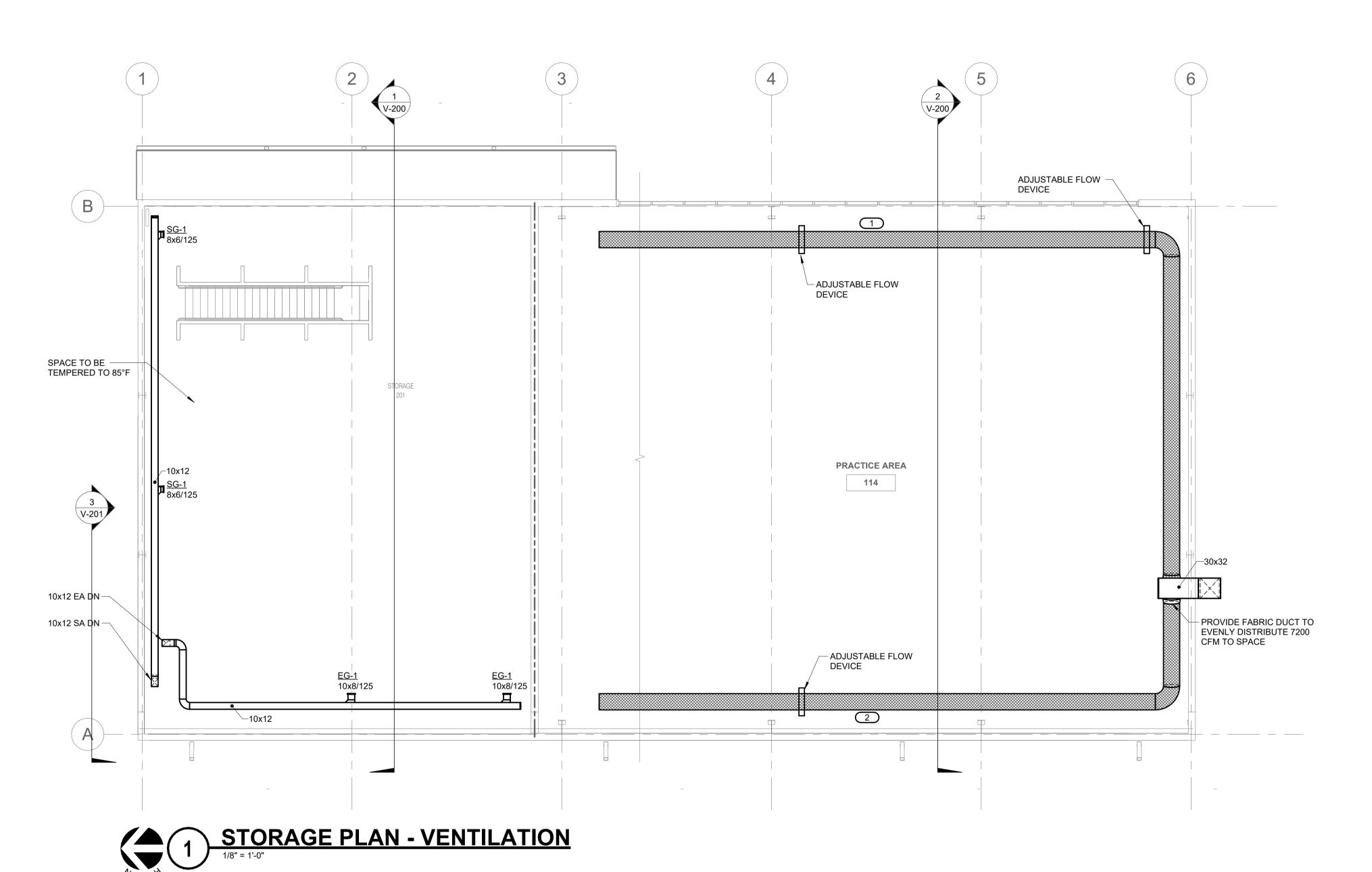
-. 62863 :S

WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT CARMEL. IL ILLINOIS EASTERN COMMUNITY COLLEGE ATHLETIC TRAINING FACILITY MARK DATE DESCRIPTION

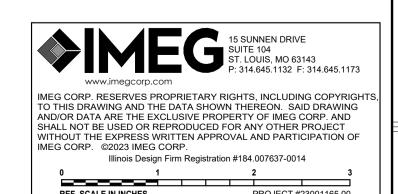
DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

VENTILATION FLOOR PLAN





DISPERSION INFORMATION (VELOCITY OF 150, 100, 50 FPM) **KEYNOTE CFM DISPERSED DISPERSION TYPE DISPERSION SET 1 DISPERSION SET 2 DISPERSION SET 3** ORIFICE SIZE 0.75 AT 5:00 - 6' 9' 14' SIZE 0.75 AT 7:00 - 6' 9' 14" SIZE 1.5 AT 8:00 - 12' 18' 29' 3570 SIZE 2.25 AT 4:00 - 18' 27' 44' SIZE 1.25 AT 7:00 - 10' 15' 24' 3700 SIZE 1.25 AT 5:00 - 10' 15' 24'





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> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04-23-2024 DATE 11-30-2025 LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

VENTILATION STORAGE PLAN

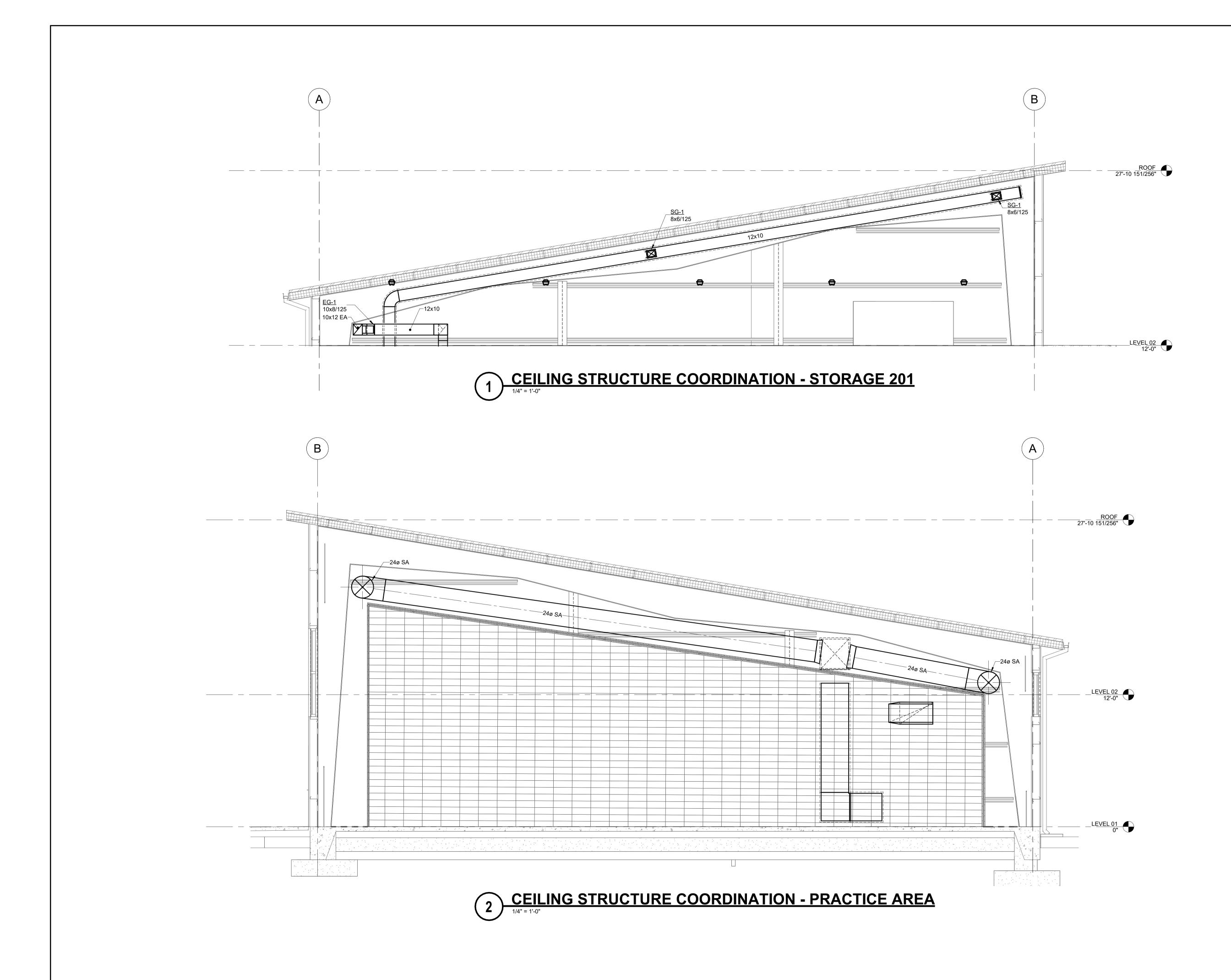
DATE: 04-23-2024

PROJECT NO: 395-3272

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MARK DATE DESCRIPTION

V-102





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> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE
04-23-2024

DATE
11-30-2025

LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

VENTILATION DIAGRAM

IS SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173

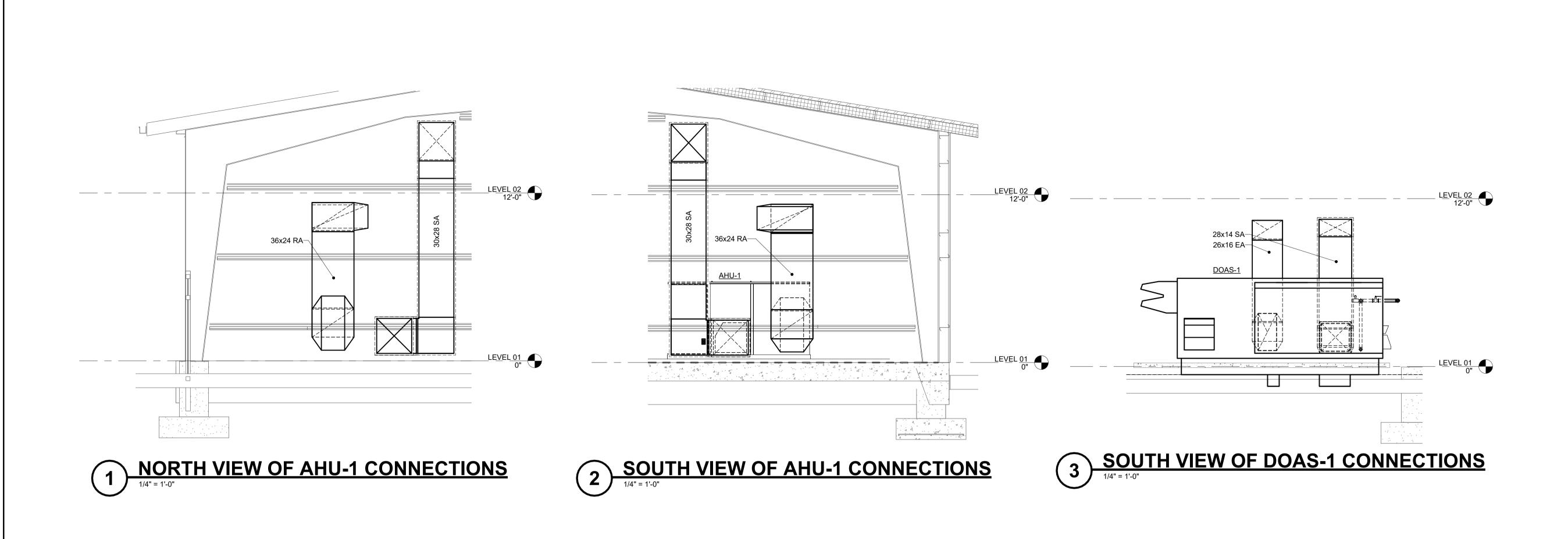
MWW.imegcorp.com

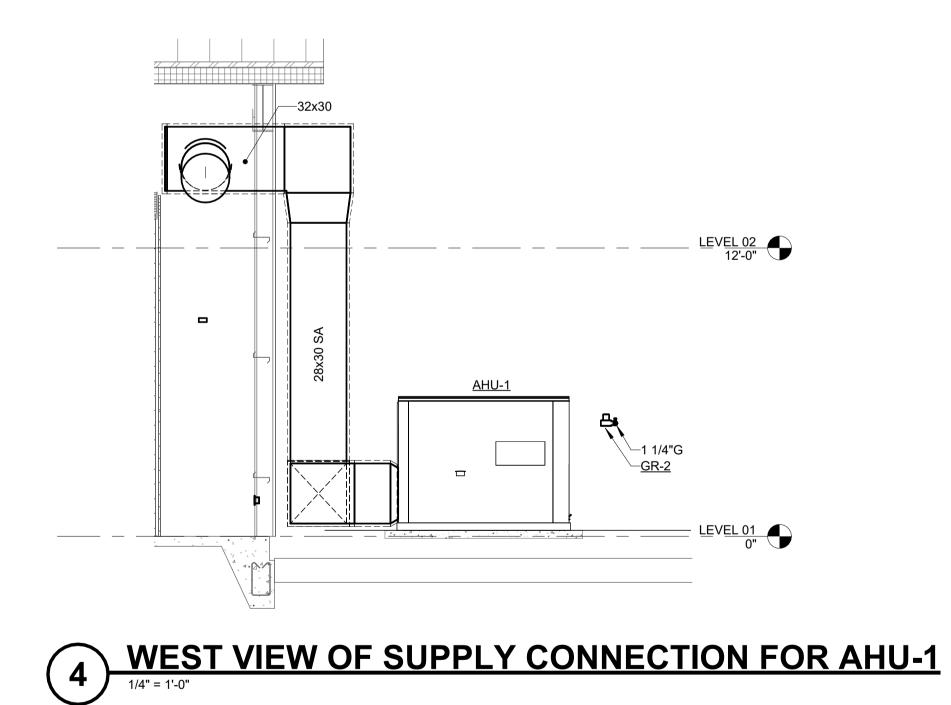
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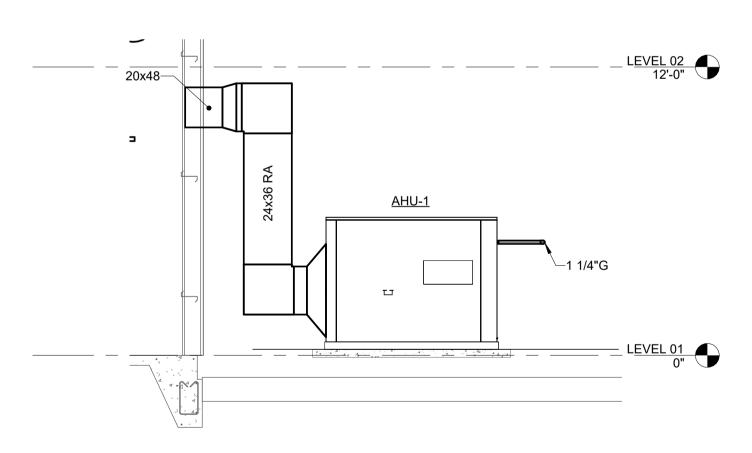
Illinois Design Firm Registration #184.007637-0014

0 1 2 3

V-200

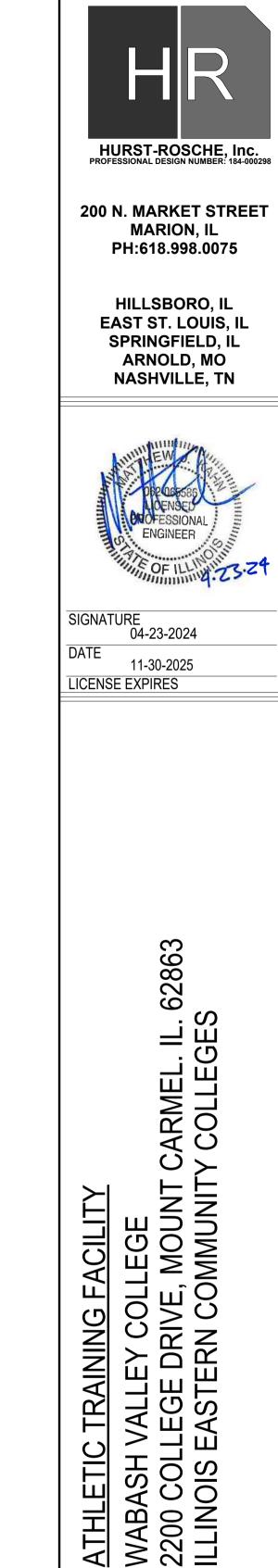






WEST VIEW OF RETURN CONNECTION FOR AHU-1

1/4" = 1'-0"



MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

VENTILATION DIAGRAM

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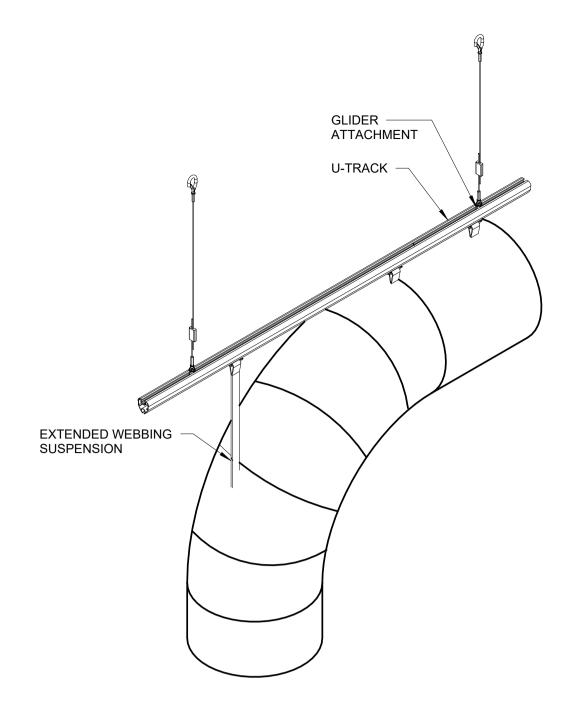
Illinois Design Firm Registration #184.007637-0014

0 1 2 3

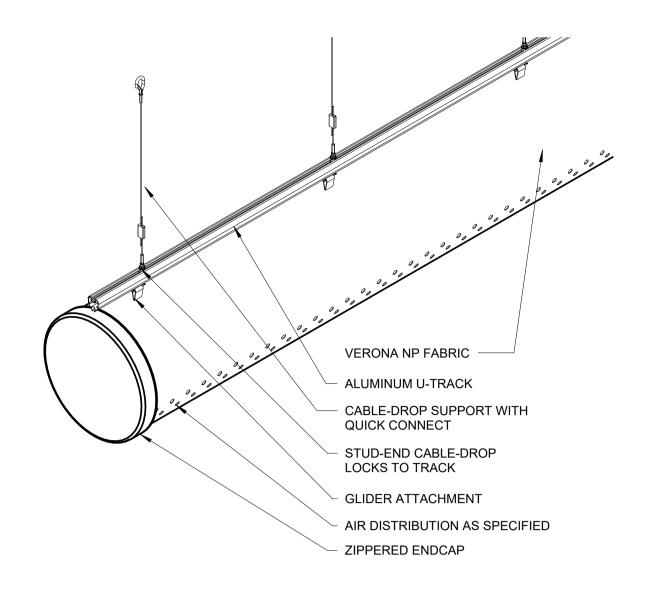
REF. SCALE IN INCHES PROJECT #23001165.00

15 SUNNEN DRIVE SUITE 104 ST. LOUIS, MO 63143 P: 314.645.1132 F: 314.645.1173

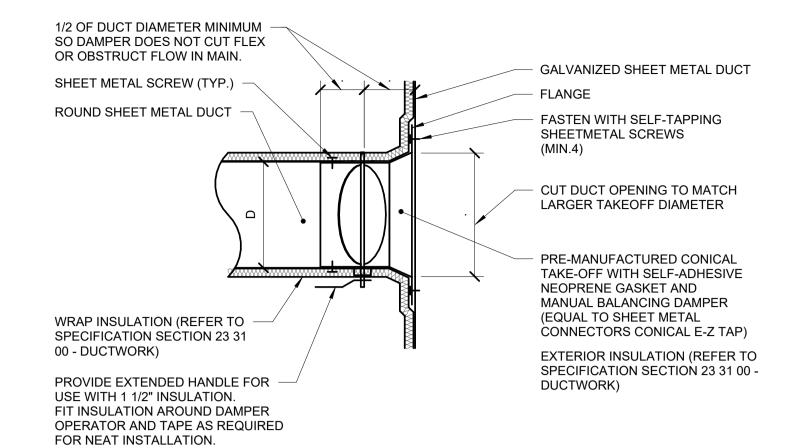
V-201





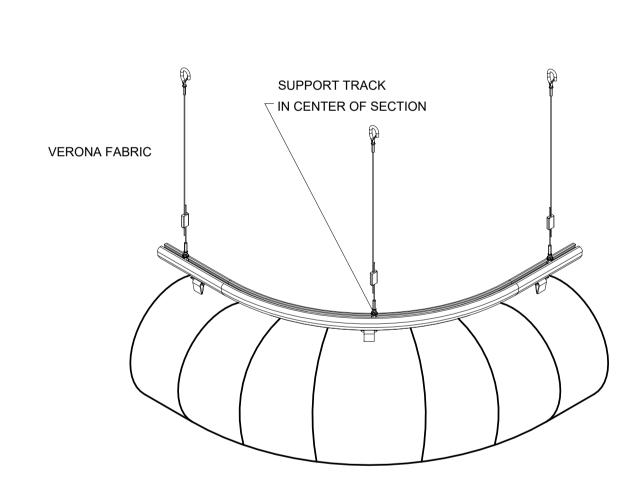


FABRIC DUCT SUSPENSION DETAIL - STRAIGHT
NO SCALE

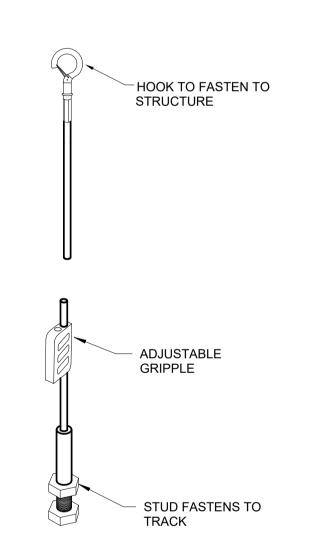


- 1. THIS DETAIL APPLIES ONLY TO TAPS OFF UNLINED DUCTS. 2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES, DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT
- OVER 12" DIAMETER. 3. MANUFACTURED TAP/DAMPER COMBINATIONS WITH LESS THAN 1/2 DUCT DIAMETER SPACING BETWEEN THE MAIN DUCT AND THE DAMPER SHAFT ARE ACCEPTABLE ONLY IF THE DAMPER SHAFT IS INSTALLED PARALLEL TO THE AIR FLOW IN THE MAIN DUCT.

# ROUND DUCT TAP CONNECTION (CONICAL/WRAPPED) NO SCALE

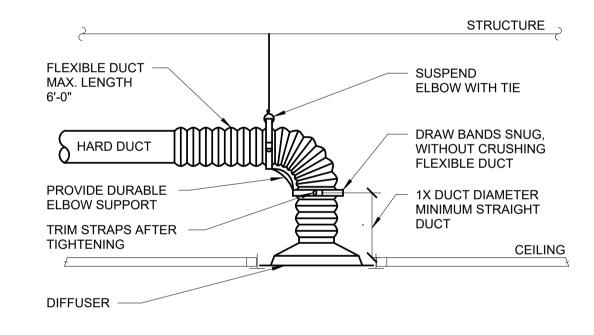


FABRIC DUCT SUSPENSION DETAIL -CORNER
NO SCALE



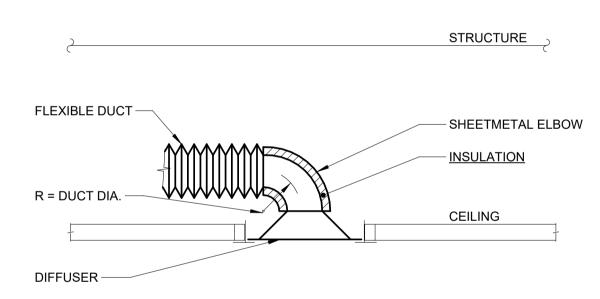
5 U-TRACK SUPPORT DETAIL

NO SCALE



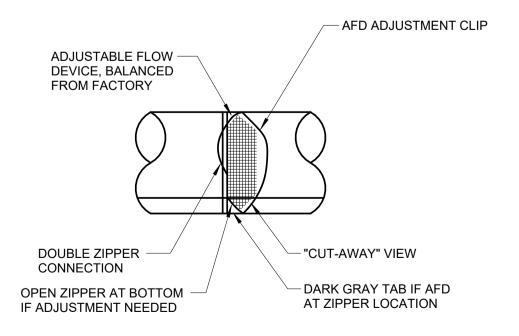
- 1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS: ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER
- SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING 2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM), THERMAFLEX "FLEXFLOW" (WWW.THERMAFLEX.NET/FLEXFLOW\_ELBOW.PHP?AUD) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.

# DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW) NO SCALE



- 1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
- 2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW

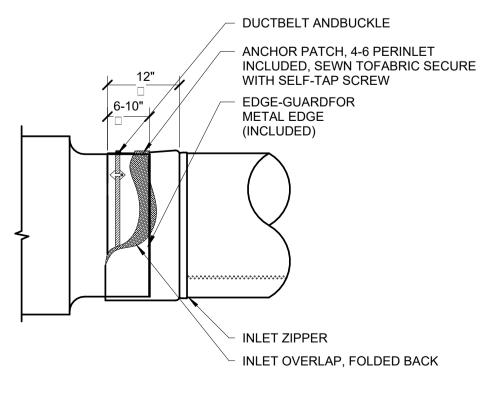
# **AIR TERMINAL - DIFFUSER FLEX** LOW PROFILE ELBOW



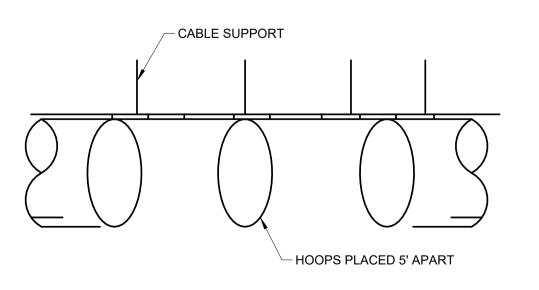
NOTES:

1. INSTALLED AT ZIPPER LOCATION AT INLET OR AS SPECIFIED IN OTHER LOCATION. ZIPPER TO ZIPPER CONNECTION AS SHOWN. EXERNAL LABEL IDENTIFIES LOCATION

8 ADJUSTABLE FLOW DEVICE (AFD)
NO SCALE

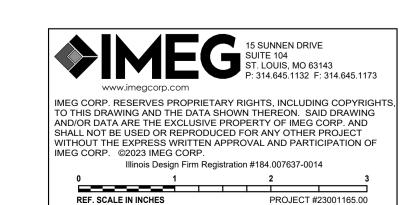


9 INLET ATTACHMENT DETAIL
NO SCALE



1. VIEW OF INTERIOR OF DUCTSOX WITH HOOPS (IHS) HANGING

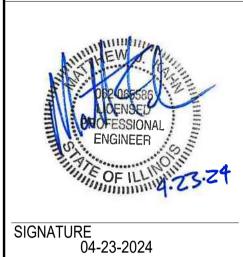
CUT AWAY VIEW OF HOOPS (IHS)
NO SCALE





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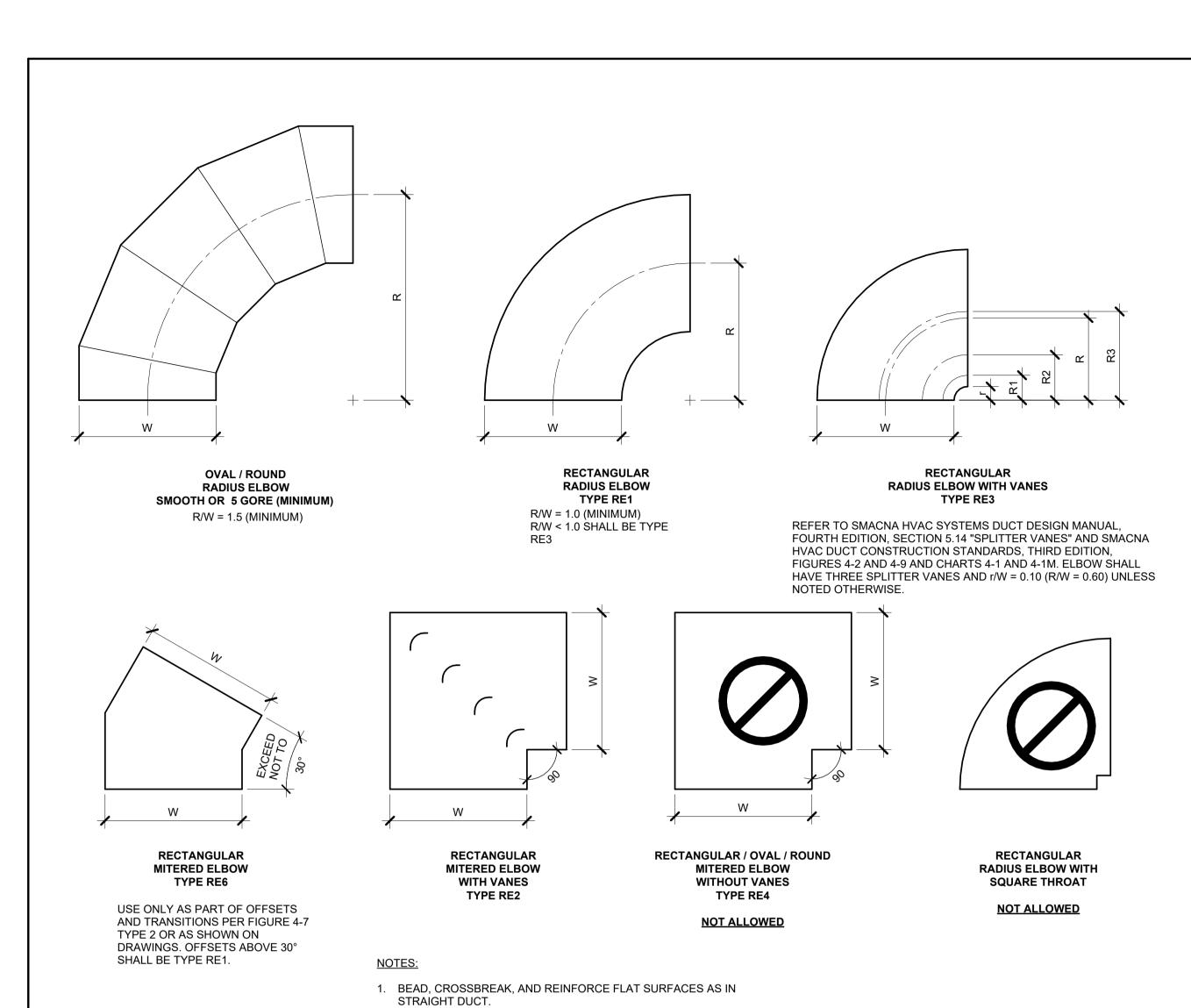


SIGNATURE 04-23-2024 DATE 11-30-2025 LICENSE EXPIRES

> 62863 는 등 등 ARMEL WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

VENTILATION DETAILS



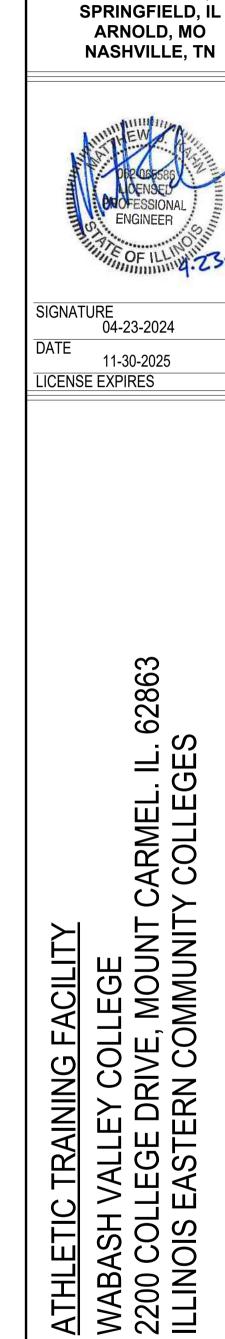
MAY BE SUBSTITUTED FOR RE2. DUCT - ELBOW CONSTRUCTION
NO SCALE

2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE

SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3

3. DEFAULT ELBOW SHALL BE TYPE "RE1".



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298

200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL EAST ST. LOUIS, IL

MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

VENTILATION

DETAILS

15 SUNNEN DRIVE SUITE 104 ST. LOUIS, MO 63143 P: 314.645.1132 F: 314.645.1173

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REF. SCALE IN INCHES PROJECT #23001165.00

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#### AIR TERMINAL SCHEDULE CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE. VOLUME TAG FACE SIZE (IN.) **DAMPER** NAME **TYPE MATERIAL** MANUFACTURER MODEL NOTES **BORDER (NOTE 1)** FINISH REQUIRED (NOTE 2) CD-1 SQUARE PLAQUE STEEL WHITE 24x24 LAY-IN NO PRICE SPD 45 DEGREE DEFLECTION WHITE PRICE INLET +2 1 1/4" STEEL 530 PERFORATED FACE LAY-IN WHITE **PRICE** PDR 24x24 STEEL NO INLET +2 0 DEGREE DEFLECTION 1 1/4" STEEL WHITE NO PRICE 900 LONG BLADES HORIZONTAL

STEEL

### DEDICATED OUTDOOR AIR UNIT (SPLIT - FIRST HALF)

PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.

PROVIDE SINGLE POINT POWER CONNECTION FOR UNIT.

SG-1 INLET +2 DOUBLE DEFLECTION

PROVIDE A CONSTANT VOLLUME SYSTEM WITH MANUFATURER STANDARD CONTROLS TO CONTROL COOLING COIL AND REHEAT COIL TO MAINTAIN SPACE TEMPERATURE AND HUMIDITY SETPOINTS

WHITE

NO

PROVIDE WITH PHOTOELECTRIC TYPE DUCT SMOKE DETECTOR ON THE RETURN SIDE OF THE EQUIPMENT. PROVIDE SAMPLING TUBES AND MOUNTING HARDWARE TO MATCH DUCT TO WHICH IT IS ATTACHED. A REMOTE ALARM LED INDICATOR DEVICE SHALL BE PROVIDED WITH THE DUCT SMOKE DETECTOR. INSTALL PER IMC 606.

PROVIDE BACNET COMPATABLE CONTROL BOARD FOR FUTURE CONNECTION TO CAMPUSWIDE COMMUNICATION SYSTEM PROVIDE WITH VARIABLE SPEED COMPRESSORS.

1 1/4"

	SUPPLY FAN												EXHAUST FAN								HEATING COIL - NATURAL GAS					COOLING CO	OIL - DX (N	NOTE 2)		
	CONTROLLER/ STARTER									CONTROLLER/ STARTER														1						
TAG	NO. OF	CFM	MIN.	EXT.	RPM	BHP EACH	MHP EACH	SUPPLY BY	SUPPLY TYPE	NO. OF	CFM	MIN.		RPM	BHP EACH	MHP EACH	<b>EXHAUST BY</b>	<b>EXHAUST TYPE</b>	EAT °F	MIN		TOTAL	MAX. A.P.D.	EAT °F	EAT °F	MAX. LAT °F	LAT °F	TOTAL	MAX. A.P.D.	
NAME	FANS	TOTAL	CFM	S.P.	(NOTE D)	(NOTE E)	(NOTE E)	(NOTE A)	(NOTE C)	FANS	TOTAL	CFM	EXT. S.P.	(NOTE D)	(NOTE E)	(NOTE E)	(NOTE A)	(NOTE C)	DB	LAT DB	TURNDOWN	MBH	IN. W.C.	DB	WB	DB	WB	MBH	IN. W.C.	NOTES
DOAS-1	1	3000	3000	1.50	2054	2.03	3	MFR	VFD	1	2800	2800	1.00	1872	1.57	2	MFR	VFD	47.6	90.0	10:1	243	0.12	81.1	69.6	50.4	50.2	168.2	0.37	NOTE 2,3,4,5,6,7

## DEDICATED OUTDOOR AIR UNIT (SPLIT - SECOND HALF)

PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.

PROVIDE SINGLE POINT POWER CONNECTION FOR UNIT.

PROVIDE A CONSTANT VOLLUME SYSTEM WITH MANUFATURER STANDARD CONTROLS TO CONTROL COOLING COIL AND REHEAT COIL TO MAINTAIN SPACE TEMPERATURE AND HUMIDITY SETPOINTS

PROVIDE WITH PHOTOELECTRIC TYPE DUCT SMOKE DETECTOR ON THE RETURN SIDE OF THE EQUIPMENT. PROVIDE SAMPLING TUBES AND MOUNTING HARDWARE TO MATCH DUCT TO WHICH IT IS ATTACHED. A REMOTE ALARM LED INDICATOR DEVICE SHALL BE

PROVIDED WITH THE DUCT SMOKE DETECTOR. INSTALL PER IMC 606. PROVIDE WITH VARIABLE SPEED COMPRESSORS.

Ι΄.		_ ,,,,,																													
	ENERGY RECOVERY WHEEL												FILTER									ELECTRICAL (NOTE 1)									
	OUTDOOR AIR								EXHAUST AIR												DISCONNECT(S)  CONTROLLER/ STARTER(S)										
			SUI	MMER			,	WINTER			SUMMER WINTER																				
TAG		EAT	EAT	LAT	LAT	EAT	EAT	LAT	LAT			EAT	EAT	EAT	EAT	F	FINAL FILTER	PRE - FILTER								BY	TYPE				
NAME	CFM	DB	WB	DB	WB	DB	WB	DB	WB	APD	CFM	DB	WB	DB	WB A	PD	TYPE	TYPE	VOLTAGE	PHASES	FLA	MCA	MOCF	BY (NOTE A)	TYPE (NOTE B)	(NOTE A)	(NOTE C)	SCCR	MANUFACTURER	MODEL	NOTES
DOAS-1	3,000	96.5	77.4	81.5	69.6	-3	-4	47.6	37.1	0.88	2,800	75	63	70	53 0	.88	MERV 13	MERV 8	208	3	74.5	80.8	100	MFR	NF	MFR	СВ	25000	TRANE	OADG015F1	NOTE 2,3,4,5,6,7

520

PRICE

UNIT	HEATER S	SCHEDULE	- ELI	ECTR	IC													
											ELECT	RICAL						
											DISCO	NNECT	CONTROLLER/	STARTER				
TAG						NUMBER OF					BY	TYPE	BY					
NAME	AREA SERVED	TYPE	CFM	EAT °F	LAT °F	STAGES	KW	VOLTAGE	PHASES	FLA	(NOTE A)	(NOTE B)	(NOTE A)	SCCR	CONTROL	MANUFACTURER	MODEL	NOTES
EWH-105	CONCESSION	WALL	245	72.0	110.0	1	5	208	1	24.1	MFR	NF	MFR	10000	UNIT MOUNT THERMOSTAT	TRANE	UHWA	SURFACE MOUNT, HEAVY DUTY GRILLE
EWH-106	RESTROOM	WALL	245	72.0	110.0	1	5	208	1	24.1	MFR	NF	MFR	10000	UNIT MOUNT THERMOSTAT	TRANE	UHWA	SURFACE MOUNT, HEAVY DUTY GRILLE
EWH-107	RESTROOM	WALL	245	72.0	110.0	1	5	208	1	24.1	MFR	NF	MFR	10000	UNIT MOUNT THERMOSTAT	TRANE	UHWA	SURFACE MOUNT, HEAVY DUTY GRILLE
EWH-108	MECHANICAL	WALL	245	72.0	110.0	1	5	208	1	24.1	MFR	NF	MFR	10000	UNIT MOUNT THERMOSTAT	TRANE	UHWA	SURFACE MOUNT, HEAVY DUTY GRILLE

## AIR HANDLING SCHEDULE

LAT IS LISTED AT DISCHARGE OF AHU.

PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. PROVIDE WITH FULL ECONOMIZER, HAIL GUARDS, AND SINGLE POINT POWER CONNECTION.

PROVIDE WITH VARIABLE SPEED COMPRESSOR. UNIT INTERNAL STATIC PRESSURE TO ACCOUNT FOR A MINIMUM OF A PARTIALLY LOADED FILTER.

PROVIDE WITH INTEGRAL UNIT CONTROLLER TO PROVIDE SINGLE ZONE VAV OPERATION WITH CO2 BASED OUTSIDE AIR CONTROL

PROVIDE BACNET COMPATABLE CONTROL BOARD FOR FUTURE CONNECTION TO CAMPUSWIDE COMMUNICATION SYSTEM

PROVIDE A SINGLE ZONE VAV USING MANUFATUER STANDARD ONBOARD CONTROLS

PROVIDE WITH PHOTOELECTRIC TYPE DUCT SMOKE DETECTOR ON THE RETURN SIDE OF THE EQUIPMENT. PROVIDE SAMPLING TUBES AND MOUNTING HARDWARE TO MATCH DUCT TO WHICH IT IS ATTACHED. A REMOTE ALARM LED INDICATOR DEVICE SHALL BE PROVIDED WITH THE DUCT SMOKE DETECTOR. INSTALL PER IMC 606.

					SUF	PPLY FA	TON) N	E 2)									ELECT	RICAL					HE	ATING - GAS					COOLING	COIL				FILTER			
										CO2 MINIMU	JM D	ESIGN					DISCONNE	CT(S)	CONTROLLE	R STARTER(S	3)	MINIMUM			GAS												
TAG	3		NO. O	<b>I</b>	EX			RPM	MHP EACH	OUTSIDE A	JIR   OUT	SIDE AIR											OUTPUT	TURN	PRESSURE IN			LAT DB °F		F TOTAL				MAXIMUM F			
NAM	IE   A	AREA SERVED	FANS	TOTA	L S.P	P.   TYF	PE (N	NOTE D)	(NOTE E)	CFM		CFM \	VOLTAGE	PHASES	MOCP	/ICA BY (N	OTE A) TYF	PE (NOTE B)	BY (NOTE A)	TYPE (NOTE	C) SCCR	AFUE	MBH	DOWN/STEPS	W.C.	EAT DB °F	EAT WB °F	(NOTE 1)	(NOTE 1)	MBH	REFRIGERAN	IT EER II	EER   TY	PE VELOCIT	Y MANUFACTU	RER MODEL	NOTES
AHU-	-1 PRA	ACTICE AREA 101	2	7500	1.5	5 PLEN	IUM	1530	3	300		2300	208	3	150 1	09 A M	FR	СВ	MFR	VFD	65000	80	324	2	7-14"	81.6	67.95	58.52	57.25	235.91	R-410A	10.8	20.5 MER'	/ 13 500	TRANE	YZJ240A3S0	H NOTE 3,4,5,6,7,8,9

## **SCHEDULE GENERAL NOTES:**

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY: MFR = MANUFACTURER EC = ELECTRICAL CONTRACTOR.

MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL

MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.

ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE: F = FUSED NF = NON-FUSED CB= CIRCUIT BREAKER

FV = FULL VOLTAGE WYE = WYE-DELTA

C. CONTROLLER STARTER TYPE:

SS = SOLID STATE (SOFT START) MS = MANUAL STARTER VFD = VARIABLE FREQUENCY DRIVE

VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS ECM = ELECTRONICALLY COMMUTATED MOTOR

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM. G. CURB TYPE:

MFR = STANDARD CURB BY MANUFACTURER GC = BY GENERAL CONTRACTOR SAC = SOUND ATTENUATOR CURB

MC = BY MECHANICAL CONTRACTOR



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**SIGNATURE** 11-30-2025 LICENSE EXPIRES

> 62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT ATHLETIC TRAINING FACILITY

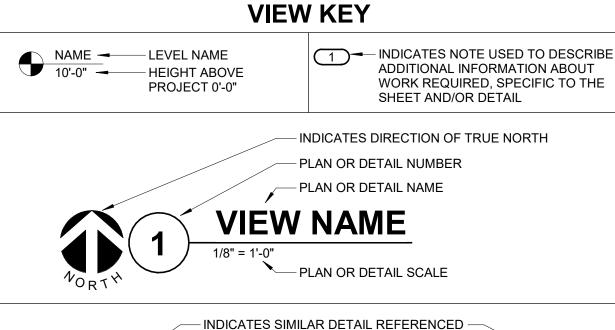
MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: KAIASH IMEG MATKAH

VENTILATION SCHEDULES

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REF. SCALE IN INCHES



- INDICATES SIMILAR DETAIL REFERENCED -IN MULTIPLE LOCATIONS DETAIL REFERRED TO BY SECTION CUT — SHEET DETAIL IS LOCATED ON —

#### LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

---- NEW ---- EXISTING TO BE REMOVED (SHORT DASHED PATTERN) — — NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

- EXISTING ---- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) — — EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL ABBREVIATION KEY						
ABBR:	DESCRIPTION:					
AFF	ABOVE FINISHED FLOOR					
С	CONDUIT					
C.O.	CONDUIT AND BOX ROUGH-IN ONLY					

	LUMINAIRE SYMBOL KEY						
SYMBOL:	DESCRIPTION:						
	NORMAL BRANCH LUMINAIRE						
<b>D</b>	PATH OF EGRESS LUMINAIRE WITH EMERGENCY BATTERY PACK.						

SUGGESTED MA	TRIX OF	RESPO	NSIBILIT	Υ		
ITEM:	SHOWN ON:	FURNISHED BY:				
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	E-SERIES	E.C.	E.C.			
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	E-SERIES	E.C.	E.C.	2		
TELECOMMUNICATION SYSTEMS ROUGH-IN	E-SERIES	E.C.	E.C.	1.		
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	E-SERIES	E.C.	E.C.	5		
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	E-SERIES	E.C.	E.C.			
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.			
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	E-SERIES	E.C.	E.C.	2		
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	E-SERIES	E.C.	E.C.	3		

## SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.

### **CONTRACTOR ABBREVIATION KEY**

	NOT ALL SYMBOLS MAY APPLY.					
ABBR:	DESCRIPTION:					
C.C.	CIVIL CONTRACTOR					
C.M.	CONSTRUCTION MANAGER					
E.C.	ELECTRICAL CONTRACTOR					
G.C.	GENERAL CONTRACTOR					
M.C.	MECHANICAL CONTRACTOR					
P.C.	PLUMBING CONTRACTOR					
V.C.	VENTILATION CONTRACTOR					

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.								
INSTALLATION TYPE	RMC	IMC	ЕМТ	PVC	PVC CONCRETE ENCASED	RTRC	PVC COATED RMC	HDPE
FEEDERS: DISTRIBUTION PANELS, PANELBOARDS, ETC.		х	х					
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		х	х					
MECHANICAL EQUIPMENT FEEDERS: AIR HANDLING UNITS, ETC.		X	Х					
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		х	х					
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		х	х					
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	х					х		
ELEVATED CONCRETE SLABS (ABOVE GRADE)	х			х				
INTERIOR LOCATIONS WITH FINSHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS			х					
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		х	х					
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)								
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	х			х				
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	х				x	х		
UNDERGROUND SITE CONDUITS:								
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	Х				х	Х		
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	х			х		x		
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT				x			x	х

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
IBT	<u>IBT</u>	26 05 26	INTERSYSTEM BONDING TERMINATION
E E	ECONN	26 05 33	ELECTRICAL CONNECTION
J J	<u>JB</u>	26 05 33	JUNCTION BOX
RI <b>W</b>	RI-TECH	26 05 33	TECHNOLOGY OUTLET ROUGH-IN
<b>♥</b> RI	RI-TECH-C	26 05 33	TECHNOLOGY ROUGH-IN, CEILING
W/RI	RI-TECH-W	26 05 33	TECHNOLOGY ROUGH-IN, WALL PHONE
TV	<u>RI-TV</u>	26 05 33	TV ANTENNA OUTLET ROUGH-IN
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-# /CB-#/CS-#	26 24 19	MANUAL SWITCH. REFER TO DISC/STA SCHEDULE
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE
	TRAY	26 28 16	CABLE TRAY

	ELECTRICAL SYMBOL LIST							
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:					
$\bigoplus$	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V					
<b>¥</b> ⊕	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V					
₩	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V					
₩	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V					

	ELECTRICAL SYMBOL LIST						
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:				
S	<u>SW-1P</u>	26 09 33	SWITCH - SINGLE POLE				
S <sub>P</sub>	SW-1P-PL	26 09 33	SWITCH - PILOT LIGHT				
s <sub>3</sub>	<u>SW-3W</u>	26 09 33	SWITCH - THREE WAY				
<b>S</b> <sub>4</sub>	<u>SW-4W</u>	26 09 33	SWITCH - FOUR WAY				
<b>D</b> 3	SW-D3	26 27 26	DIMMER - 3 WAY				
⊚ <sub>D</sub>	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY				
OC <sub>D</sub>	SW-OC-D-W	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED				
s <sub>o</sub>	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH				

	ELECTRICAL SYMBOL LIST							
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:					
			LINEAR LUMINAIRES					
			TROFFER					
• •	REFER TO LU SCHED		INDUSTRIAL LUMINAIRE					
			SINGLE FACE EXIT SIGN					
			DOUBLE FACE EXIT SIGN					

	ELECTRICAL EQUIPMENT TAGS	
TAG:	DESCRIPTION:	RELATED SPECIFICATION
<u>DP-#</u>	DISTRIBUTION PANEL	26 24 16
<u>MX-#</u>	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
SPD-#	SURGE PROTECTION DEVICE	26 43 00
<u>TR-#</u>	PAD MOUNTED, LIQUID FILLED TRANSFORMERS	26 12 19
<u>HH-#</u>	HAND HOLE	26 05 33
<u>SC-#</u>	PAD MOUNTED SECTIONALIZED SWITCHGEAR	26 13 14

### **ELECTRICAL GENERAL NOTES:**

- 1. {L###} INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE
- LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-500. 2. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN
- EMERGENCY BATTERY PACK. 3. REFER TO SHEET E-500 FOR LUMINAIRE SCHEDULE.

## **LUMINAIRE KEY:**

<u>F1</u> = FIXTURE TAG

1 = CIRCUIT NUMBER a = SWITCH DESIGNATION

"SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1/1/a/NL

#### **DEVICE KEY:**

DEVICE # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

\*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS

#### INFORMATION. EX: A / 1

**ELECTRICAL MOUNTING SUBSCRIPT KEY:** A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH EWC ELECTRIC WATER COOLER

### **ELECTRICAL INSTALLATION NOTES:**

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON
- THIS PAGE FOR ADDITIONAL INFORMATION. 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH
- 3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- 4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY ROUGH-INS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- 5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- 6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- 7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 8. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND
- 11. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 12. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

	ELECTRICAL SHEET INDEX					
E-000	ELECTRICAL COVERSHEET					
E-001	SITE PLAN - ELECTRICAL					
E-101	FLOOR PLAN - ELECTRICAL LIGHTING					
E-102	STORAGE PLAN - ELECTRICAL LIGHTING					
E-111	FLOOR PLAN - ELECTRICAL POWER					
E-112	STORAGE PLAN - ELECTRICAL POWER					
E-300	ELECTRICAL DETAILS					
E-301	ELECTRICAL DETAILS					
E-302	ELECTRICAL DETAILS					
E-400	ELECTRICAL DIAGRAMS					
E-500	ELECTRICAL SCHEDULES					
E-600	ELECTRICAL PANEL SCHEDULES					
GRAND TOTA	AL: 12					



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LICENSE EXPIRES

WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNIT ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: RLM

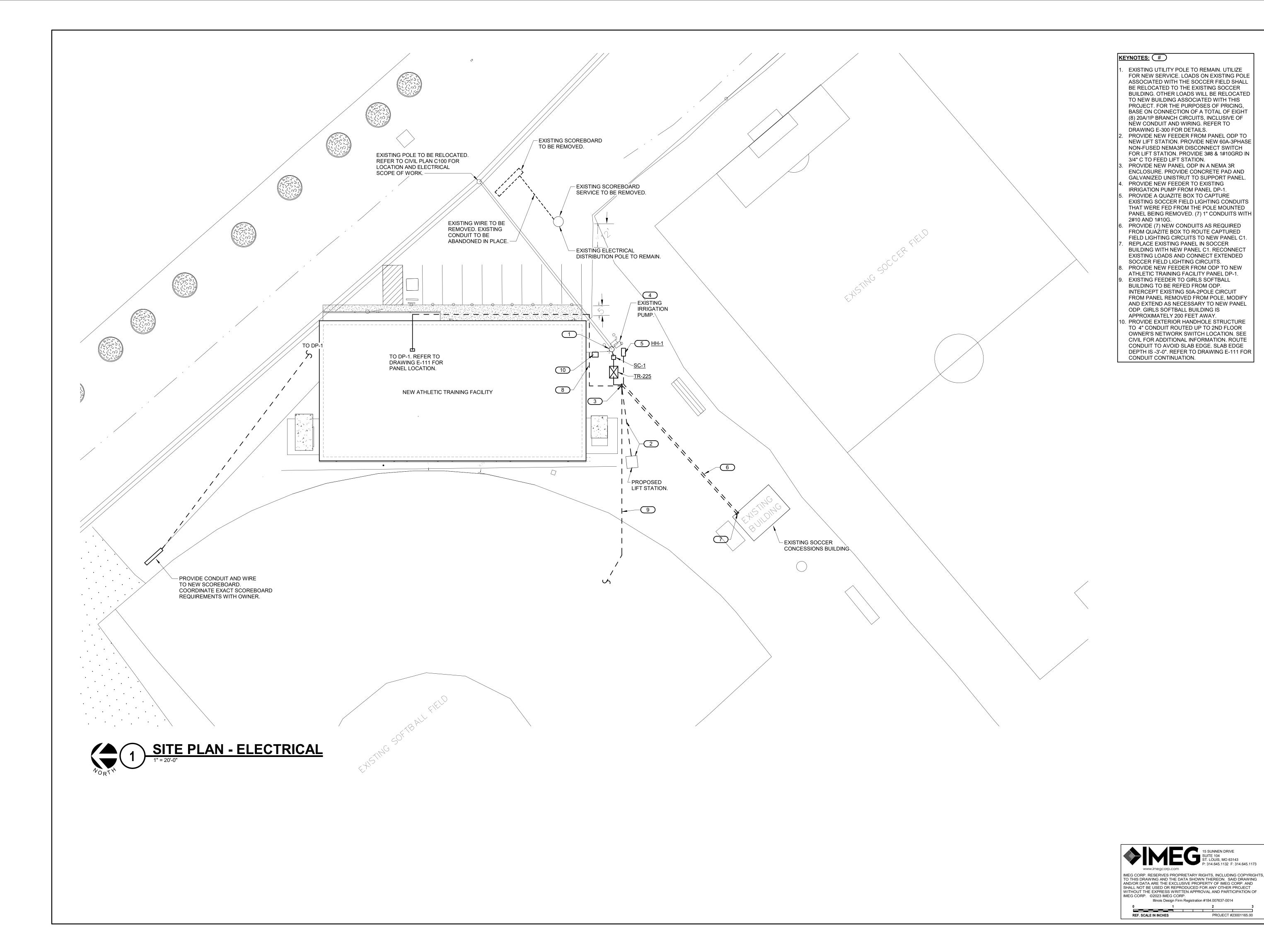
MTH

ELECTRICAL COVERSHEET

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SIGNATURE

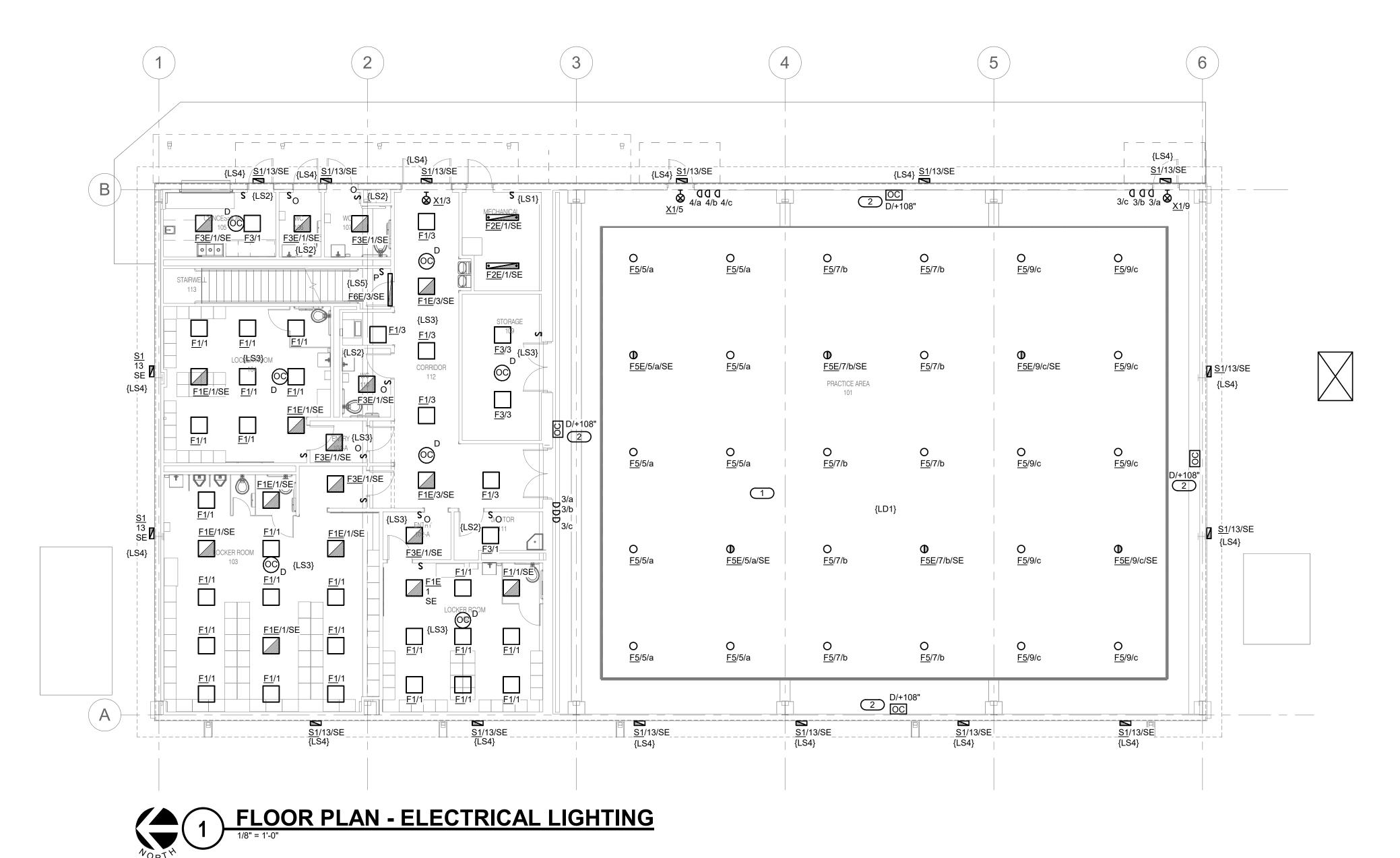
11-30-2025 LICENSE EXPIRES

> 크핑 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ( ILLINOIS EASTERN COMMUNITY

62863

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: RLM RLM MTH

SITE PLAN -ELECTRICAL



#### **GENERAL NOTES:**

ALL BRANCH CIRCUITS ARE SERVED FROM PANEL "P1" UNLESS OTHERWISE NOTED. COORDINATE LUMINAIRE F2E IN MECHANICAL ROOM WITH DUCTWORK, PIPING AND ANY MECHANICAL EQUIPMENT. PROVIDE LUMINAIRE WITH CHAINS OR HANGER KIT WHERE REQUIRED. BOTTOM OF FIXTURE TO ALIGN WITH BOTTOM OF NEAREST BEAM/TRUSS. COORDINATE MOUNTING PRIOR TO ORDERING LUMINAIRES. COORDINATE LOCATIONS WITH

TO ORDERING LUMINAIRES.
COORDINATE ALL LUMINAIRE LOCATIONS WIT
STRUCTURAL TRUSS AND BEAMS PRIOR TO
ROUGH-IN.
HALF SHADED FIXTURE INDICATE SWITCHED

LUMINAIRES FOR EGRESS LIGHTING
CONNECTED TO PANEL AS NOTED.
WHERE LUMINAIRE QUANTITIES OR LAYOUT
DIFFER BETWEEN ELECTRICAL LIGHTING
PLANS AND ARCHITECTURAL REFLECTED
CEILING PLANS, HIGHER QUANTITY SHALL
TAKE PRECEDENCE. CONTRACTOR SHALL
CONFIRM QUANTITY AND LAYOUT WITH
DESIGN TEAM.

#### KEYNOTES: #

1. THE STRUCTURE IN THIS AREA IS SLOPED. SUSPENSION KITS FOR LUMINARIES IN THIS AREA WILL VARY PER CEILING ORIENTATION. COORDINATE WITH STRUCTURAL CONTRACTOR FOR BEAM LOCATIONS IN RELATION TO SUSPENDED MOUNTED LIGHT FIXTURES.

2. PROVIDE WALL MOUNTED OCCUPANCY

PROVIDE WALL MOUNTED OCCUPANCY SENSOR TO TURN ALL LIGHTS OFF IN THE PRACTICE AREA AFTER 15 MINUTES OF VACANCY.



200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



SIGNATURE 04-23-2024

DATE 11-30-2025
LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

DATE: 04-23-2024

PROJECT NO: 395-3272

DESIGN: RLM CHECK: MTH

FLOOR PLAN - ELECTRICAL LIGHTING

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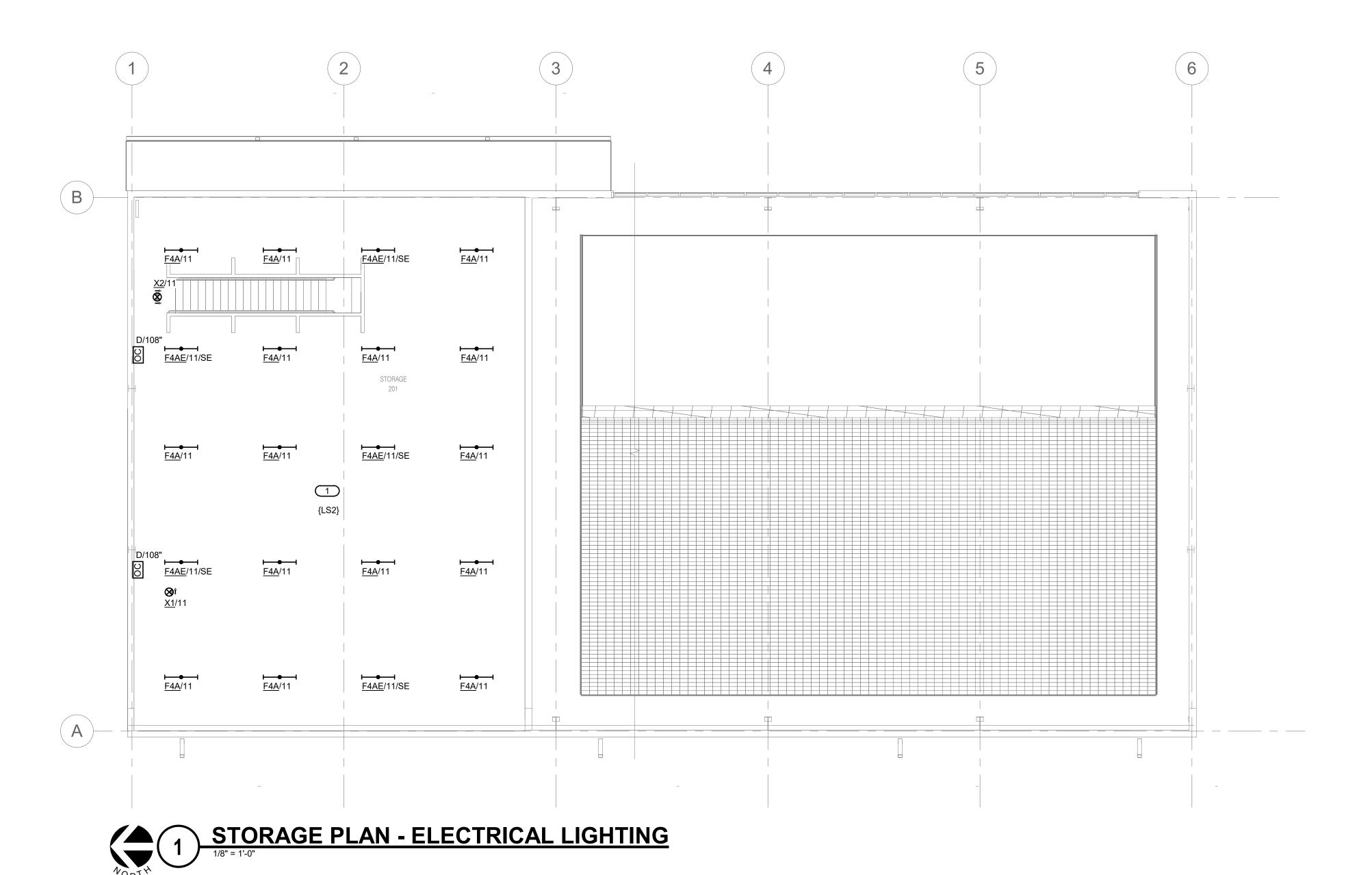
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1 2 3

REF. SCALE IN INCHES PROJECT #23001165.00

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E-101



#### **GENERAL NOTES:**

KEYNOTES: #

DRAWING E-101.

ALL BRANCH CIRCUITS ARE SERVED FROM PANEL "P1" UNLESS OTHERWISE NOTED. COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO ROUGH-IN.

THE STRUCTURE IN THIS AREA IS SLOPED.

CONTRACTOR FOR BEAM LOCATIONS IN RELATION TO SURFACE MOUNTED LIGHT FIXTURES. LIGHT FIXTURES IN THIS AREA ARE CONTROLLED BY A PILOT LIT SWITCH AT THE BOTTOM OF THE STAIRWELL. REFER TO

COORDINATE WITH STRUCTURAL

3. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS, HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.



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SIGNATURE 04-23-20

DATE 11-30-2025 LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
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2200 COLLEGE DRIVE, MOUNT CARMEL. IL. 62863
ILLINOIS EASTERN COMMUNITY COLLEGES

MARK DATE DESCRIPTION

DATE: 04-23-2024

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STORAGE PLAN - ELECTRICAL

PROJECT NO: 395-3272

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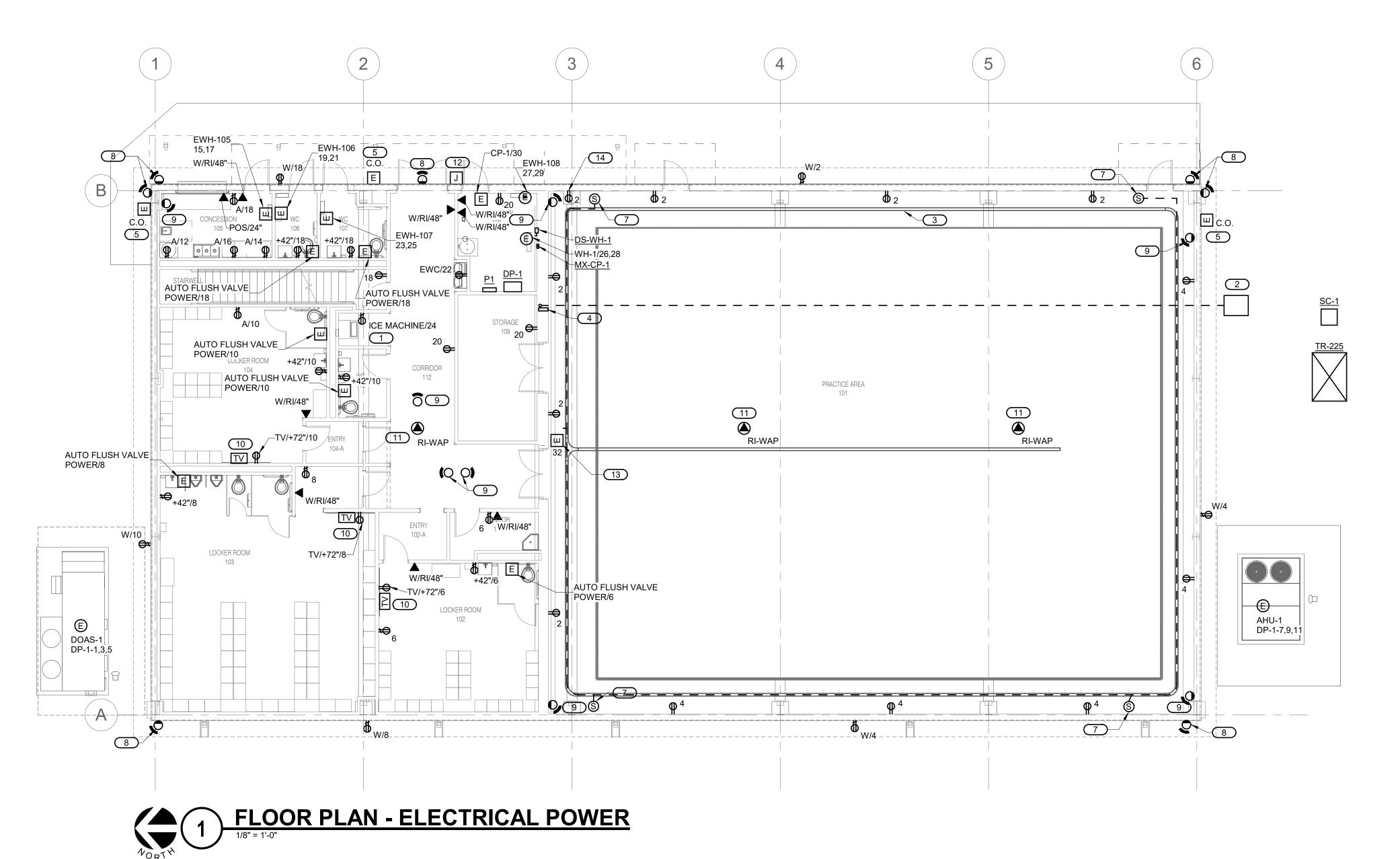
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LIGHTING

E-102



#### KEYNOTES: #

- LOCATE RECEPTACLE SO THAT IT IS FULLY ACCESSIBLE OR PROVIDE A GFCI CIRCUIT BREAKER.
- PROVIDE 4" CONDUIT BELOW GRADE FROM EXTERIOR HANDHOLE STRUCTURE TO 4" CONDUIT ROUTED UP TO 2ND FLOOR OWNER'S NETWORK SWITCH LOCATION. SEE CIVIL FOR ADDITIONAL INFORMATION. PROVIDE SMALL PROFILE (2" H X 4" W) CABLE TRAY SYSTEM. COORDINATION INSTALLATION
- HEIGHT WITH OWNER AND SYSTEMS BEING INSTALLED.
- PROVIDE RATED WALL PENETRATION FROM CABLE MANAGEMENT SYSTEM TO 2ND FLOOR OWNER'S NETWORK SWITCH LOCATION. REFER TO DRAWING E-300 DETAIL #3. EXTERIOR SIGN LOCATIONS: PROVIDE 20A DEDICATED CIRCUIT AND WALL BACKING AT EACH PROPOSED SIGN LOCATION FOR
- FUTURE USE BY OWNER'S VENDOR PROVIDED OWNER'S VENDOR INSTALLED SIGNAGE. COORDINATE FINAL LOCATIONS AND HEIGHTS WITH OWNER PRIOR TO INSTALLATION. NOT USED. SPEAKER LOCATIONS: SINGLE GANG BOX AND
- ASSOCIATED CONDUIT TO RECEIVER LOCATION. +/- 12' AFF. COORDINATE WITH OWNER'S REP ON FINAL LOCATION OF SPEAKERS PRIOR TO ROUGH-IN. EXTERIOR CAMERAS: +/- 10' - 12' AFF. COORDINATE WITH A/E OR OWNER'S REP ON FINAL LOCATION OF EXTERIOR CAMERAS. INTERIOR CAMERAS: +/- 9' AFF. COORDINATE WITH OWNER'S REP ON FINAL MOUNTING
- HEIGHT OF INTERIOR CAMERAS IN ROOM 101. 0. TELEVISION LOCATIONS: DOUBLE GANG BOX WITH TWO SEPARATE 1" CONDUITS TO BOX. FINAL HEIGHT TO BE COORDINATED WITH OWNER DURING CONSTRUCTION. . ACCESS POINT LOCATIONS: CEILING MOUNTED LOCATIONS. CONDUIT FROM PRACTICE AREA
- LOCATION SHOWN TO ABOVE CEILING AREA JUST EAST OF WEIGHT AREA. 2. ACCESS CONTROL ROUGH-IN BACK BOX WITH EXTERIOR GRADE COVER PLATE AND CONDUIT TO ABOVE CEILING FOR OWNER'S FUTURE
- 3. PROVIDE POWER, BACK BOXES, CONDUIT, SUPPORT AS NEEDED FOR SMALL ELECTRONIC SCOREBOARD, HIGH VISIBLE CLOCK, AND TIMER TYPE CLOCK WITH BUZZER/ALARM (SEPARATE IF CLOCK AND TIMER NOT BUILT-IN TOGETHER) IN PRACTICE AREA. COORDINATE WITH OWNER'S REP TO DETERMINE ITEMS TO BE INSTALLED. 4. AUDIO SYSTEM RECEIVER LOCATION: SINGLE GANG BOX AND ASSOCIATED CONDUIT TO SPEAKER LOCATIONS. PROVIDE DUPLEX RECEPTACLE FOR AUDIO DEVICE TO PLUG INTO. COORDINATE WITH OWNER'S REP ON FINAL LOCATION OF SHELF SYSTEM FOR

SWITCHES AND ADA REQUIREMENTS.

LOCATE ON EAST WALL.

COORDINATION WITH OWNER'S REP ON WHETHER THIS SYSTEM WILL BE WITHIN OR

AUDIO RECEIVER. COORDINATE HEIGHT WITH

ABOVE FRAMED OUT WALL CUBBY OR SHELF

SYSTEM. SHELF MOUNTED SYSTEM +34" AFF.

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SIGNATURE 04-23-2024

11-30-2025

LICENSE EXPIRES

62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNITY ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024

RLMFLOOR PLAN -ELECTRICAL POWER

DESIGN: DRAWN: CHECK:

PROJECT NO: 395-3272

### KEYNOTES: #

PROVIDE 4'X8' 3/4" FIRE RETARDANT PLYWOOD ATTACHED TO WALL AT PROPOSED OWNER'S NETWORK SWITCH LOCATION .
 LOCATION OF INTERSYSTEM BONDING FOR IT EQUIPMENT.



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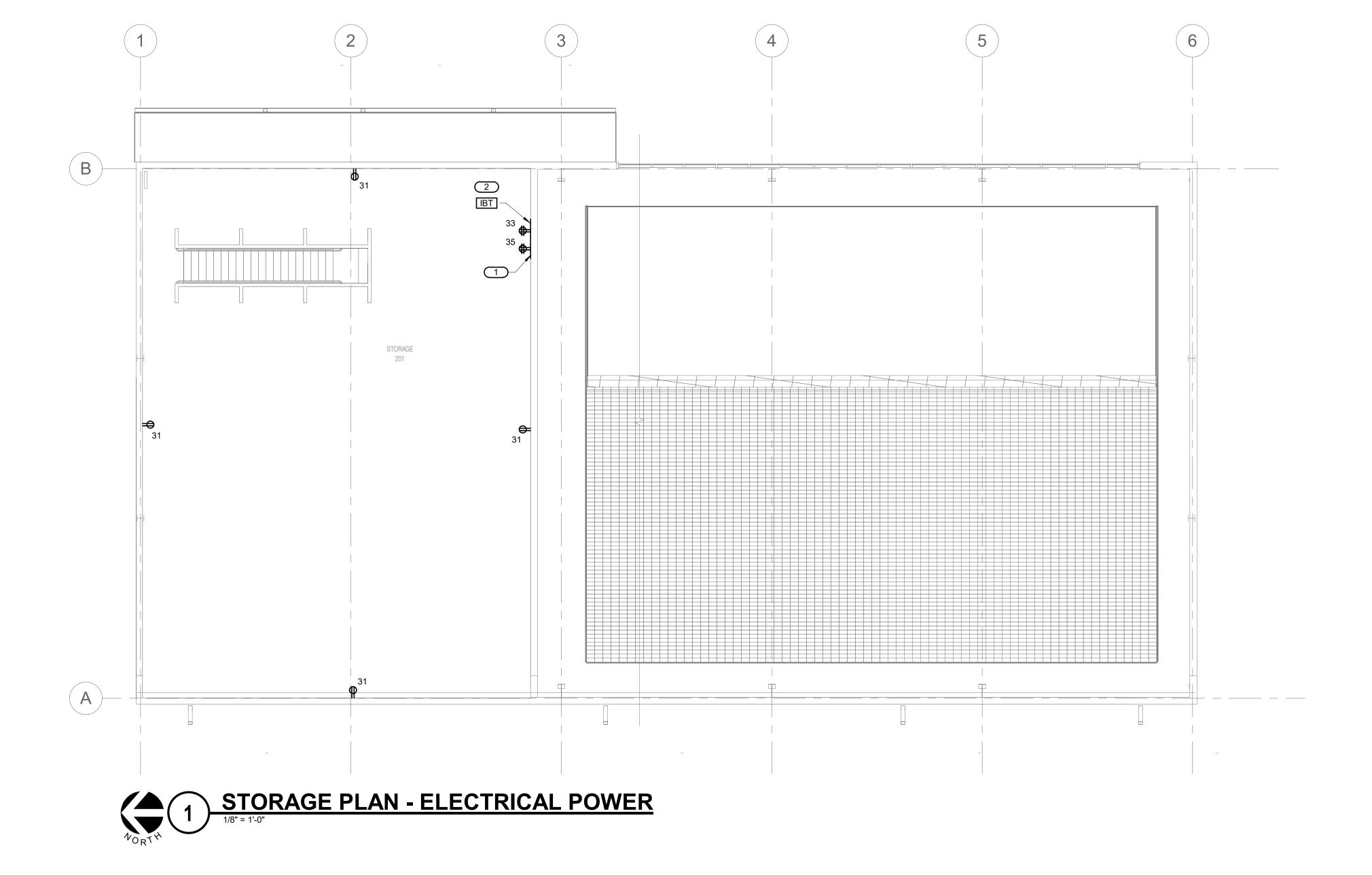
L. 62863 ES ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL
ILLINOIS EASTERN COMMUNITY COLLEGE

MARK DATE DESCRIPTION

DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: RLM RLM MTH

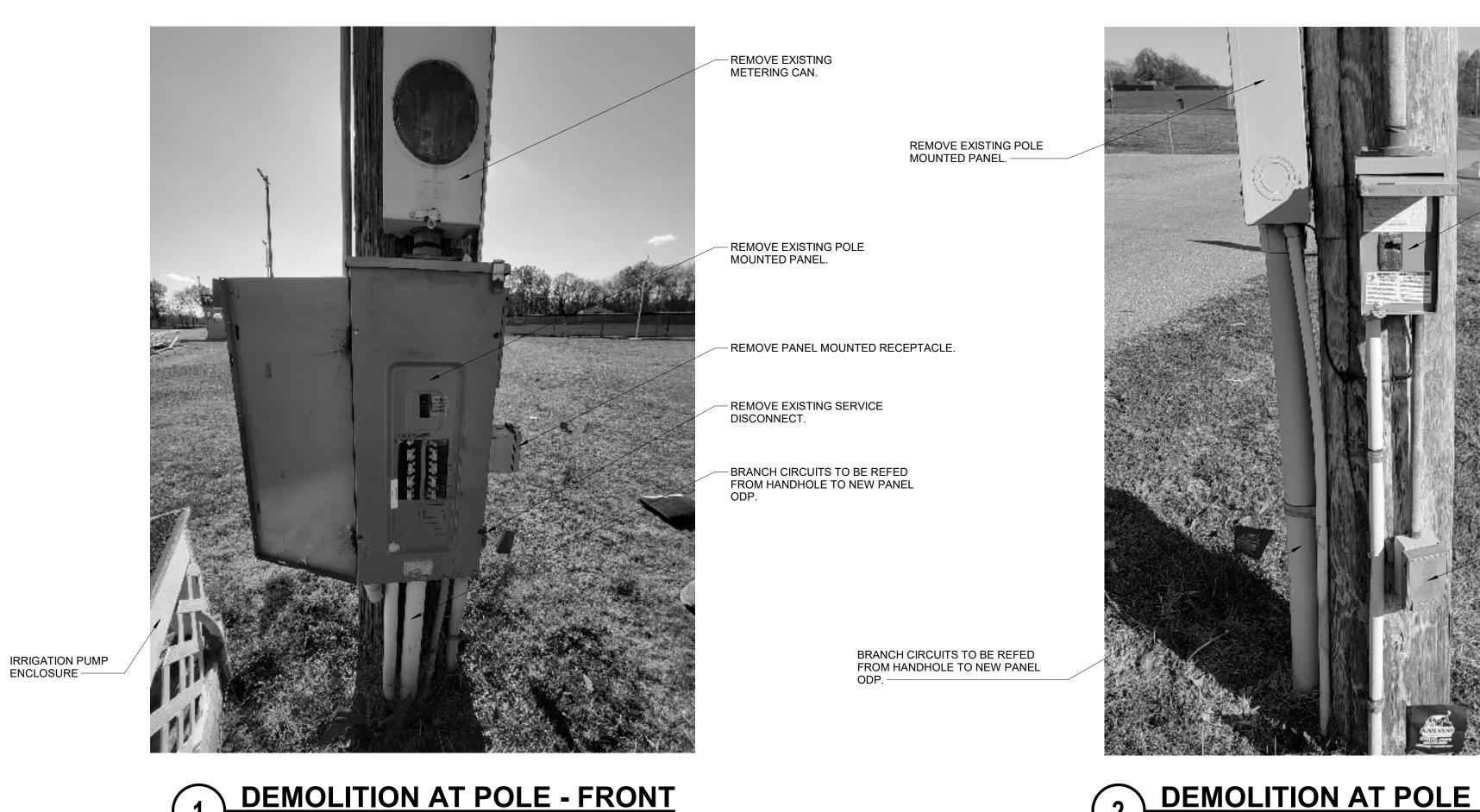
STORAGE PLAN -ELECTRICAL POWER

E-112

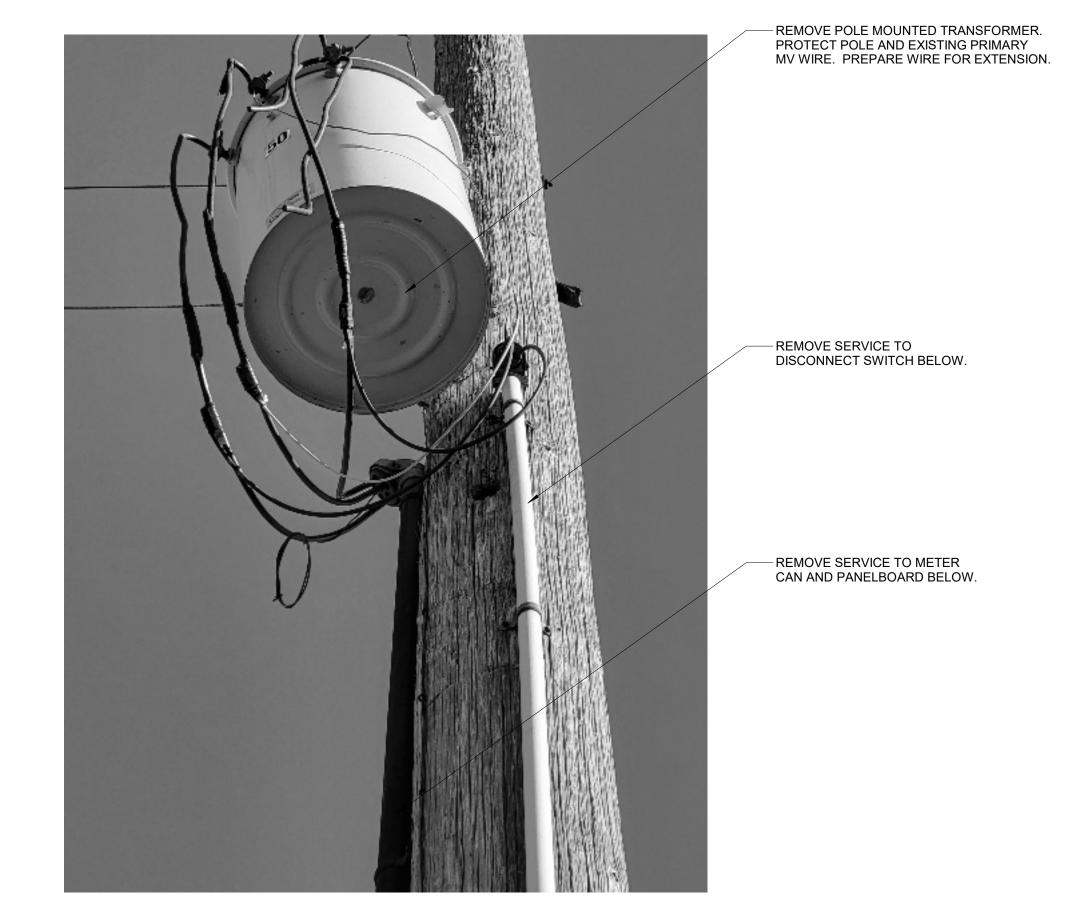


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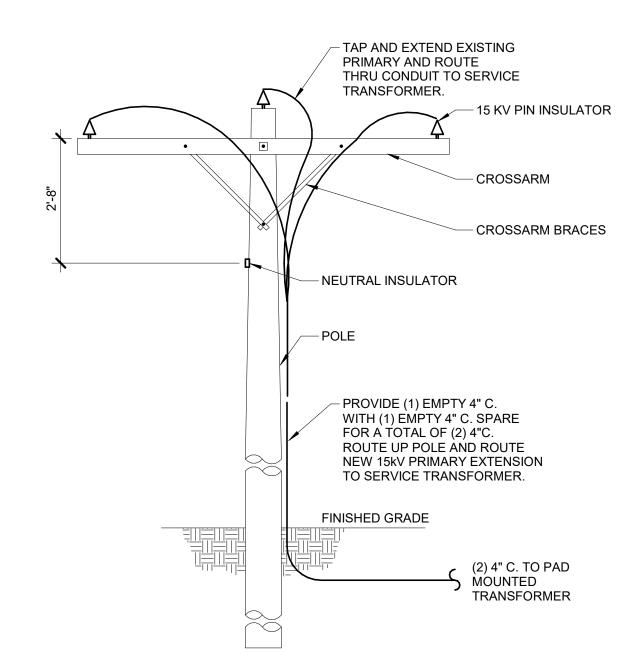
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DEMOLITION AT POLE - SIDE VIEW
NO SCALE



DEMOLITION AT POLE - TOP VIEW
NO SCALE



REMOVE EXISTING SERVICE DISCONNECT.

REMOVE POLE MOUNTED RECEPTACLE.

4 OVERHEAD LINE POLE DETAIL
NO SCALE



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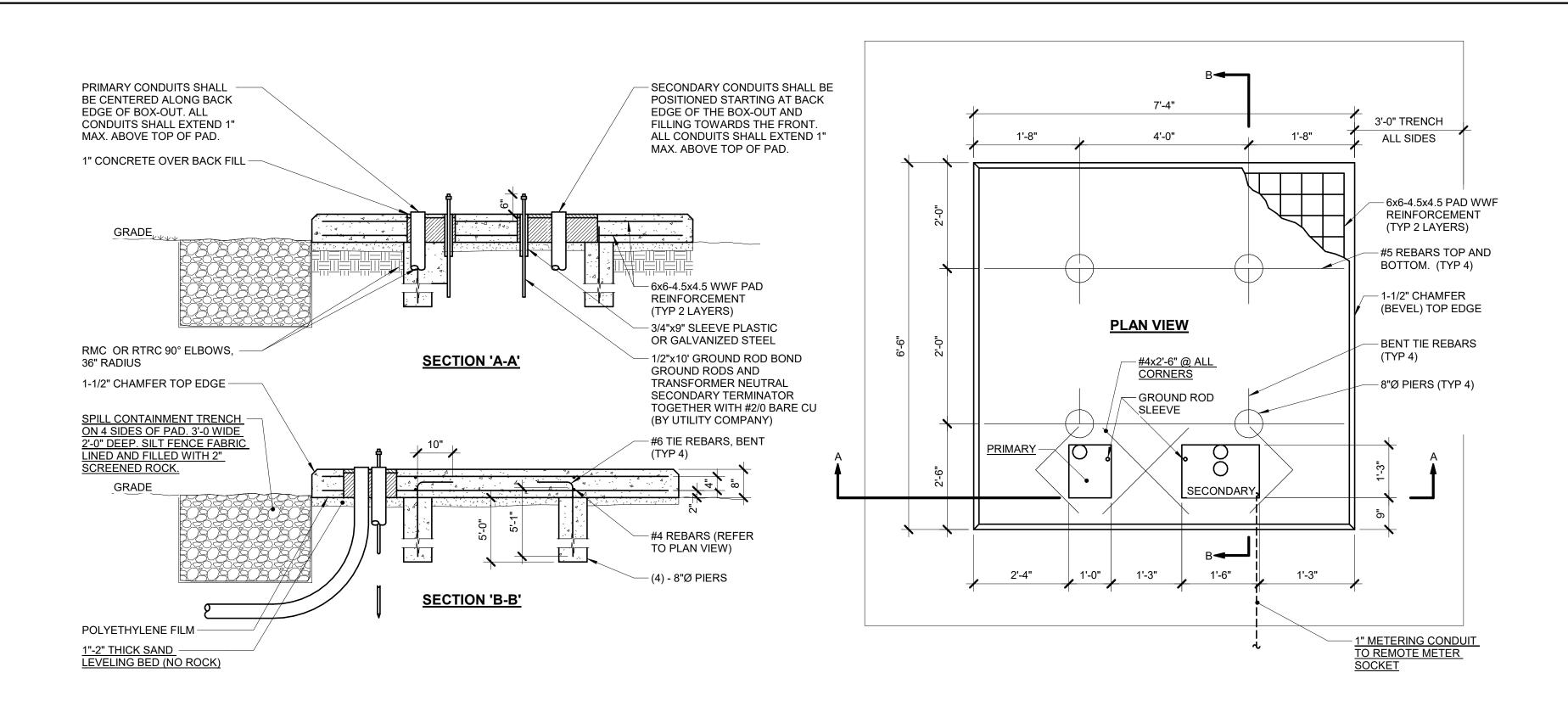
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PROJECT #23001165.00



CONCRETE: fc ≥ 3500 PSI AT 28 DAYS. REINFORCING STEEL: ASTM A 615-60.

ROUGH-IN WITH G.C.

6x6-4.5x4.5 WELDED WIRE FABRIC (WWF): ASTM A 185. SOIL: ≥ 95 PERCENT PROCTOR DENSITY OR 55 PSI PBV.

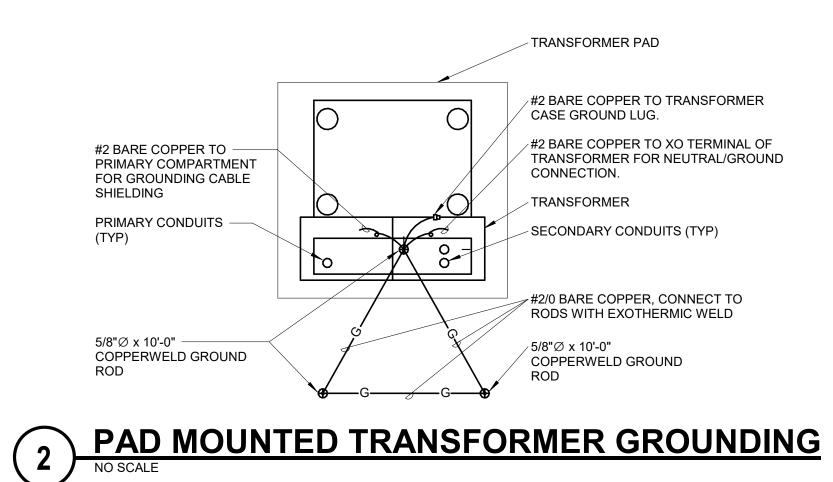
1. ALL DIMENSIONS ARE NOMINAL INSIDE CLEARANCES.

3. SEAL ALL CONDUIT ENDS WITH DUCTSEAL

2. ANY SPLICES OR DEVICES IN HANDHOLE SHALL BE SUBMERGIBLE.

6. VERIFY FINAL REQUIREMENTS AND DIMENSIONS WITH UTILITY COMPANY

GENERAL CONTRACTOR TO PROVIDE TRANSFORMER PAD AS SHOWN. E.C. TO COORDINATE CONDUIT



HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298 **200 N. MARKET STREET** MARION, IL PH:618.998.0075 HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO

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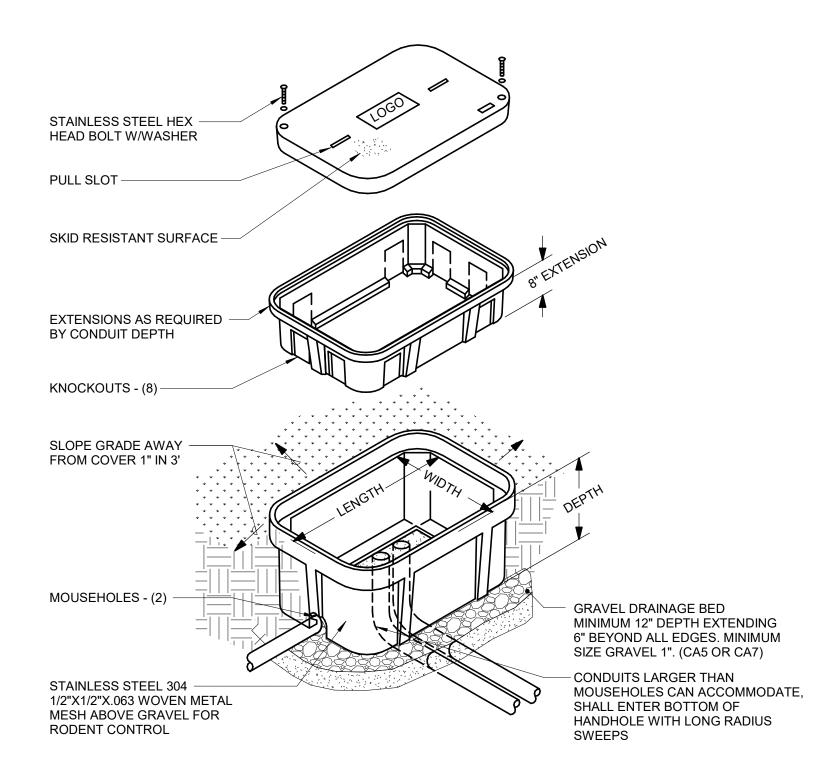
NASHVILLE, TN

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225kVA TRANSFORMER PAD DETAIL
NO SCALE

HANDHOLE DETAIL
NO SCALE



CLEAN EARTH BACKFILL PLACED PER **SPECIFICATIONS** MARKER TAPE WITH -METALLIC TRACER, 12" ABOVE DUCT BANK. (4) #4 BARS CONTINUOUS ON TOP AND BOTTOM NONMETALLIC REDUCER SPACER 4" SCHEDULE 40 PVC -#4 TIE BARS AT 3'-0" ON CENTER 2500 PSI CONCRETE -CONDUIT NONMETALLIC SPACER, MAXIMUM 5' ON CENTER. [CARLON S288 4" MINIMUM COMPACTED -SERIES, UNDERGROUND AGGREGATE BASE. DEVICES WUNPEECE, OSBORN [PRECAST CONCRETE PADS ASSOCIATES 5100 SERIES] ON UNDISTURBED EARTH UNDER EACH SPACER]

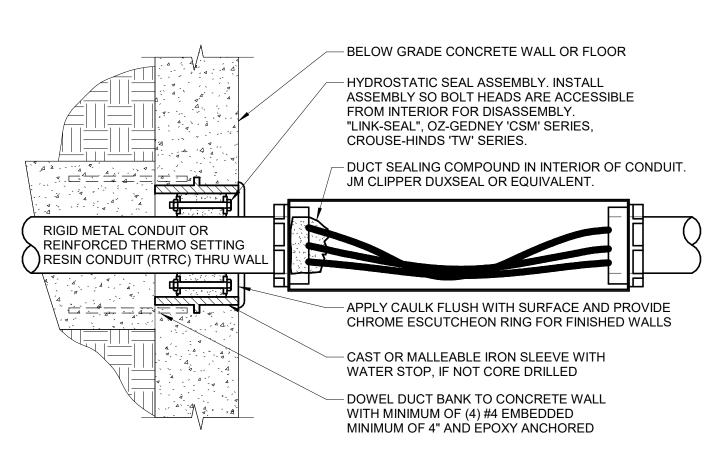
FINISHED GRADE -

- 1. INSTALL 2000 Ib TENSILE STRENGTH BRAIDED POLYPROPYLENE PULL CORD IN ALL
- 2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATIONS. 3. MINIMUM OF 4'-0" CLEAR BETWEEN ADJACENT DUCTBANKS.
- 4. DOWEL ENDS OF DUCTBANK TO FOUNDATION OR MANHOLE WITH A MINIMUM OF (4) #4

DUCT BANK DETAIL (1x)
NO SCALE

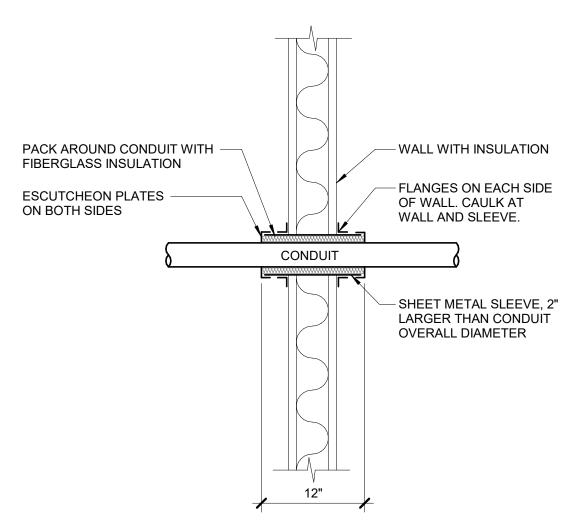
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MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: RLMELECTRICAL DETAILS

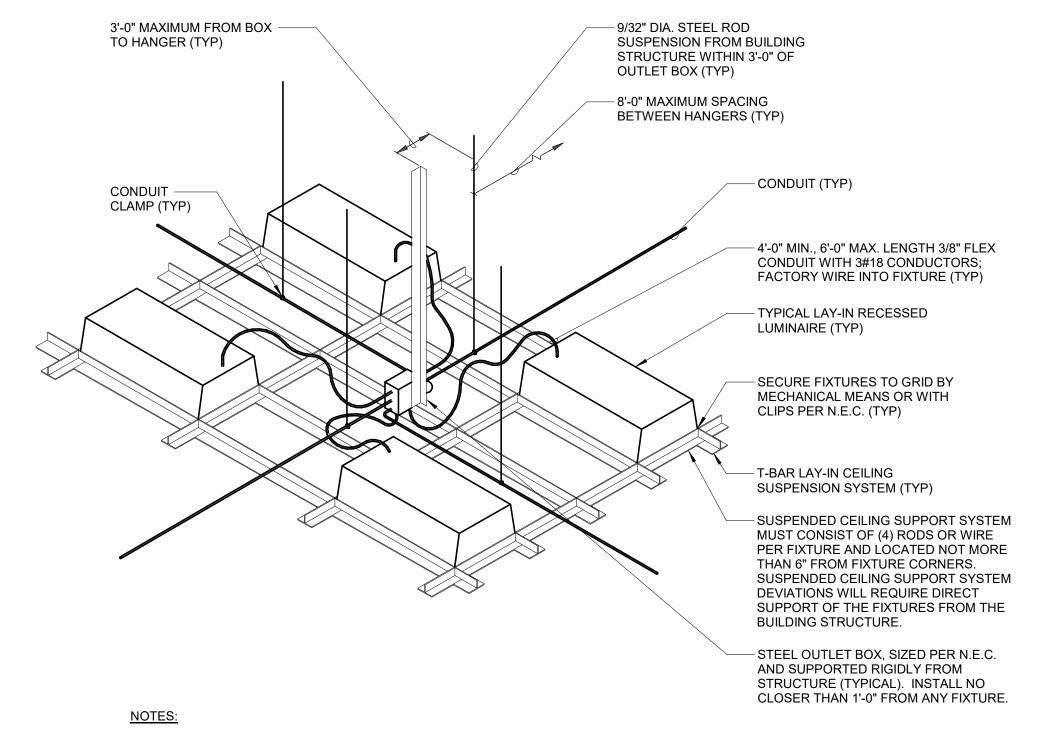


- 1. HYDROSTATIC SEAL SELECTION BASED ON OUTSIDE DIAMETER OF CONDUIT AND INSIDE DIAMETER OF SLEEVE OR BORE.
- 2. PROVIDE PULL BOX, CONDUIT FITTING OR AUXILIARY GUTTER, SIZED PER N.E.C. WITHIN 5' OF CONDUIT ENTRY TO ALLOW SEALING OF CONDUITS. BOX ORIENTATION IS DIAGRAMMATIC SEALING COMPOUND SHALL BE NON-HARDENING MATERIAL FOR WATERSTOP AND MOISTURE BARRIER, OZ/GEDNEY 'DUX' OR APPROVED EQUIVALENT SEAL BOTH ENDS OF EXTERIOR
- CONDUITS. 3. THIS DETAIL APPLIES TO ALL BELOW GRADE WALL AND FLOOR CONDUIT ENTRIES INTO BUILDING.

# 1 EXTERIOR WALL PENETRATION NO SCALE

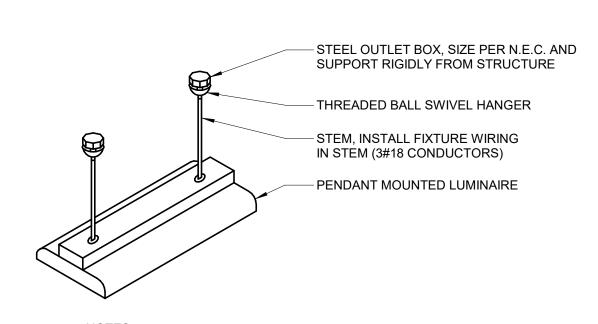


3 CONDUIT WALL PENETRATION
NO SCALE



1. DO NOT SUPPORT CONDUIT OR BOXES FROM CEILING GRID HANGERS.

# RECESSED LUMINAIRE DETAIL (GRID CLIPS) NO SCALE



- 1. SELECT STEM LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED
- ON DRAWINGS. 2. PROVIDE TWO STEMS ON SINGLE LUMINAIRE AND ONE STEM PER LUMINAIRE WHEN JOINED IN CONTINUOUS ROW.
- 3. LUMINAIRE TO BE MOUNTED LEVEL.

# PENDANT MOUNTING DETAIL NO SCALE



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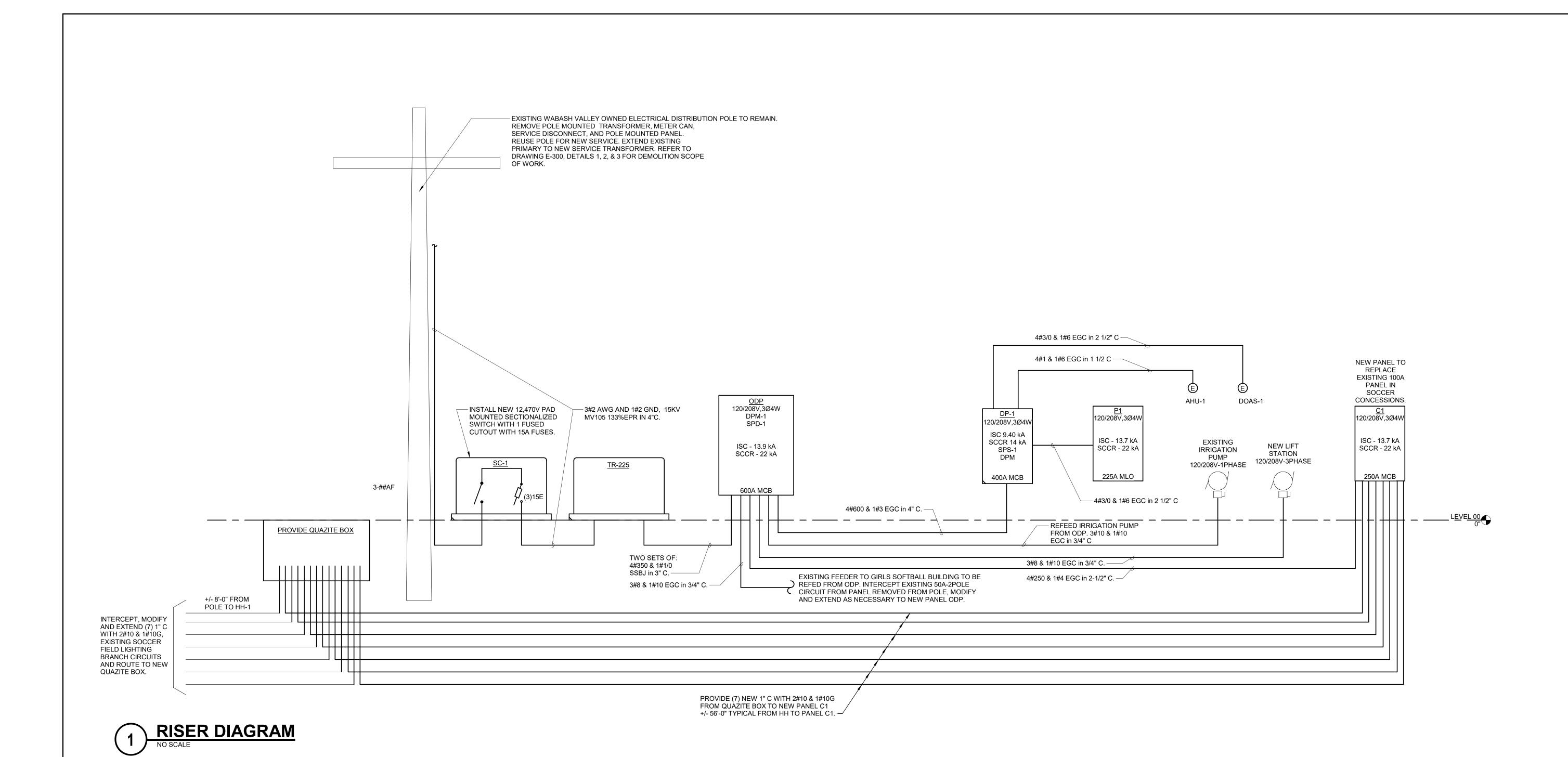
11-30-2025 LICENSE EXPIRES

> 62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNITY TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: RLM RLM MTH

ELECTRICAL DETAILS

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SIGNATURE 04-23-2024

11-30-2025

LICENSE EXPIRES

62863 ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CARMEL. IL
ILLINOIS EASTERN COMMUNITY COLLEGE

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ELECTRICAL DIAGRAMS

LED LUMINAIRE SO	CHEDULE			
(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER		WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTI	ON BY ARCHITECT			[DESIGN SPECIFIC BLANKS]
(MTG) MOUNTING:	RE - RECESSED		(WATT) PER: FIX - FIXTURE, I	T - FOOT, LAMP
CL - CEILING SURFACE	SP - SUSPENDED		(TYPE) LED	RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE		LED - LIGHT EMITTING DIODE	RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET		TLED - TUBULAR LED LAMP	RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL		OLED - ORGANIC LED	RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)		DLED - DYNAMIC TUNABLE LED	WLED - WARM DIM LED
(TYPE) DRIVER:				

DMX - DIGITAL MULTIPLEX EM - EMERGENCY BATTERY ML - MULTI-LEVEL SWITCHING O - OTHER (SEE DESCRIPTION) CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS

HL - HIGH/LOW (100%/50%) STEP...

MV - MULTI-VOLTAGE ELECTRONIC

REM - REMOTE

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.

CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER. UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

EB - ELECTRONIC

DALI - DIGITAL ADDRESSABLE ELV - ELECTRONIC LOW VOLTAGE LINE - LINE VOLTAGE DIMMING

0-10V - 0-10V DIMMING

				DIMEN	ISIONS		WA	TT		LED	DRIVE	R	
ITEM	DESCRIPTION	MTG	L	w	н	DIA.	ANSI WATTS	PER	TYPE	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
=1	2'X2' RECESSED LUMINOUS PANEL. DAMP LOCATION LISTED.	RE	2'-0"	2'-0"	2"	DIA.	20 W	FIX	LED	2500	120 V		METALUX FP H.E. WILLIAMS BP DAY BRITE FLUXPANEL OR APPROVED EQUAL
-1E	SAME AS F1 WITH INTEGRAL 14 WATT EMERGENCY BATTERY.	RE	2'-0"	2'-0"	2"		20 W	FIX	LED	2500	120 V	0-10V	METALUX FP H.E. WILLIAMS BP DAY BRITE FLUXPANEL OR APPROVED EQUAL
-2E	4' INDUSTRIAL WITH 10% UPLIGHT, BAKED ENAMEL FINISH. AND WITH 14 WATT EMERGENCY BATTERY.	SP	4'-0"	1'-0"	4 1/4"		34 W	FIX	LED	4256	120 V	0-10V	HE WILLIAMS 80 DAY BRITE LITHONIA OR APPROVED EQUAL
F3	2'X2' RECESSED LUMINOUS PANEL. DAMP LOCATION LISTED.	RE	2'-0"	2'-0"	2"		39 W	FIX	LED	4200	120 V	0-10V	METALUX FP H.E. WILLIAMS BP DAY BRITE FLUXPANEL OR APPROVED EQUAL
F3E	SAME AS F3 WITH INTEGRAL 14 WATT EMERGENCY BATTERY.	RE	2'-0"	2'-0"	2"		39 W	FIX	LED	4200	120 V	0-10V	METALUX FP H.E. WILLIAMS BP DAY BRITE FLUXPANEL OR APPROVED EQUAL
F4A	ENCLOSED AND GASKETED WIDE DISTRIBUTION INDUSTRIAL WITH MOLDED IN PLACE GASKET, FIBERGLASS HOUSING, STAINLESS STEEL LATCHES, CLEAR ACRYLIC LENS. SURFACE MOUNTED TO THE BOTTOM OF THE STRUCTURE.	SP	4'-0"	6 3/4"	5 1/2"		35 W	FIX	LED	4900	120 V	0-10V	HE WILLIAMS 97 DAY BRITE VAPORLUME LED LITHONIA FEM LED OR APPROVED EQUAL
F4AE	SAME AS F4A WITH 14 WATT EMERGENCY BATTERY.	SP	4'-0"	6 3/4"	5 1/2"		35 W	FIX	LED	4900	120 V	0-10V	HE WILLIAMS 97 DAY BRITE VAPORLUME LED LITHONIA FEM LED OR APPROVED EQUAL
F5	ROUND HIGH BAY, ALUMINUM HOUSING, MEDIUM DISTRIBUTION, FIXTURE HOOK AND PLUG. 5000K, IK08 LENS OR WIRE GUARD.	SP			2'-1"	11"	105 W	FIX	LED	15000	120 V	0-10V	METALUX UHBS DAY BRITE HCY OR APPROVED EQUAL
F5E	SAME AS F5 WITH BATTERY BACK UP CAPABLE OF PROVIDING 90 MINUTES OF EGRESS ILLUMINATION.	SP			2'-1"	11"	105 W	FIX	LED	15000	120 V	0-10V	METALUX UHBS DAY BRITE HCY OR APPROVED EQUAL
-6E	WALL MOUNTED LINEAR LUMINAIRE, ROUND FROSTED ACRYLIC LENS. INTEGRAL 14 WATT EMERGENCY BATTERY AND INTEGRAL OCCUPANCY SENSOR.	WL	4'-0"	6"	1"		27 W	FIX	LED	4000	120 V	0-10V	METALUX BCLED HE WILLIAMS SLF OR APPROVED EQUAL
S1	HORIZONTAL EXTERIOR ARCHITECTURAL WALL PACK, FORWARD THROW, SOLITE GLASS LENS. ZERO UPLIGHT, TYPE III DISTRIBUTION. PROVIDED WITH 14W EMERGENCY BATTERY AND INTERNAL PHOTOCELL	WL	1'-4"	10"	10 1/2"		16 W	FIX	LED	1700	120 V	0-10V	HE WILLIAMS VWPV LITHONIA WDGE GARDCO 101L OR APPROVED EQUAL
<b>K</b> 1	EDGE-LIT SINGLE-FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR LENS AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT, VERIFY RECESSED END, OR CEILING MOUNTING AND ARROWS WITH PLANS.	CL/WL/ O	1'-1"	2"	9"		3 W	FIX	LED	LED	120 V	EM	SURE LITES EUX HE WILLIAMS EXIT/EL OR EQUAL
X2	EDGE-LIT DOUBLE-FACED EXIT SIGN, INJECTION MOLDED ACRYLIC MIRROR LENS AND EXTRUDED ALUMINUM HOUSING. HOUSING FINISH AND COLORS SELECTED BY ARCHITECT, VERIFY RECESSED END, OR CEILING MOUNTING AND ARROWS WITH PLANS.	CL/WL/ O	1'-1"	2"	9"		5 W	FIX	LED	LED	120 V	EM	SURE LITES EUX HE WILLIAMS EXIT/EL OR EQUAL

		NOTE	. ALL DIS	CONNECTS /	EVCEDT	MANIIAI C	TADTED	S) CHALL B	)	EAVY DUTY TYPE.	
		NOTE	. ALL DIS	CONNECTS (	EXCEPT	WANUAL	DIARIER	S) SHALL B	ре пі	EAVIDUITITE.	
DISCONNECT TYPE:			AC	CESSORIES	& OPTION	<u>1S</u>					
FU - FUSED			SA	A - STANDARD	ACCESS	ORIES (IN	CLUDES 7	TTEMS)	PF -	- PHASE LOSS PROTE	CTION (5 HP OR GREATER, 3 PHASE
NF - NON-FUSED			*C	T - CONTROL	TRANSFO	DRMER, FL	JSED 120	V	TO .	- MELTING THERMAL	OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER			*E	O - ELECTRO	NIC OVER	RLOAD (3 F	PHASE MO	OTORS)	TS -	- 2 SPEED SELECTOR	SWITCH IN DOOR
			*H	A - HAND-OFF	-AUTO IN	DOOR			GP ·	- GREEN (OFF) PILOT	LIGHT IN DOOR
STARTER TYPE:			*R	P - RED (RUN	) PILOT LI	GHT IN DO	OOR		FA -	- 4-CONVERTIBLE AUX	(ILIARY CONTACTS
MS - MANUAL STARTER			*T/	A - TWO CON	VERTIBLE	AUXILIAR	Y CONTA	.CTS	EI -	ELECTRICAL INTERLO	OCK (2)-N.O. & (2)-N.C.
MX - MANUAL SWITCH			S/I	N - INSULATE	D NEUTRA	AL ASSEM	BLY		SS -	- START-STOP PUSHB	UTTON IN DOOR
	DISC	ONNECT RATING				STAF	RTER			REQUIRED	
ITEM	ITEM TYPE RATING					NEMA SIZE	TYPE	ENCLOSU	JRE	ACCESSORIES & OPTIONS	COMMENTS
/IX-CP-1		30 A		120 V	1	0	MX	NEMA <sup>-</sup>	1	TO	
C-1	F	15 A		12470 V	3			NEMA 3	R		
S-WH-1	NF	30 A		208 V	2			NEMA <sup>*</sup>	1		

	IOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. CH DESIGNATION FOR LIGHTING CONTROL
PLAN ID	LIGHTING SWITCHED
{LD1}	SEQUENCE: Lighting control provides vacancy control, and manual switching.  ON: Lights turn on manually using a wall control.  ADJUST: Lights are controlled in zones and dimmable  OFF: Lights turn off manually using a wall control. Lights turn off automatically after the space has been vacant for 15 minutes.
{LS1}	Sequence: Lighting control provides manual switching. ON: Lights turn on manually using a wall control. OFF: Lights turn off manually using a wall control.
{LS2}	Sequence: Lighting control provides vacancy control and manual switching. ON: Lights turn on manually using a wall controller OFF: Lights automatically turn off after the space has been vacant for 15 minutes or using wall controller
{LS3}	SEQUENCE: Lighting control provides occupancy control. ON: Lights turn on automatically via occupancy sensor. OFF: Lights turn off automatically after the space has been vacant for 15 minutes.
{LS4}	SEQUENCE: Lighting control provides photocell control. ON: Lights turn on automatically via internal photocell. OFF: Lights turn off automatically via internal photocell.
{LS5}	SEQUECE: Lighting control provides occupancy controls. ON: Lights turn to 100% during occupancy ADJUST: Lights dim to 50% after 15 mins of vacancy.

TYPE:										<b>ACCESSORI</b>	ES & OPTIONS
K1 - DOE 2016 DR	Y TYPE			P	TOTUA - TUA	RANSFO	ORMER			AL - ALUMIN	JM WINDINGS
K4 - K4 RATED DF	RY TYPE			E	BB - BUCK B	OOST				CU - COPPE	RWINDINGS
K13 - K13 RATED	DRY TYPE			L	IQ - LIQUID	FILLED				RS - EPOXY	RESIN ENCAPSULATED
HM - HARMONIC	MITIGATING									FL - FILTERE	D
PE - NEMA PREM	IUM EFFICIENC	Y								NV - NON-VE	NTILATED
										NL - 200% R/	ATED NEUTRAL
										EL - ELECTR	OSTATIC SHIELD
				MAX.	PRIM	ARY	SECON	DARY		·	
ITEM	KVA RATING	TYPE	ENCLOSURE	TEMP. RISE C.	VOLTS	PH	VOLTS	PH	REQUIRED AC		COMMENTS
TR-225	225 kVA	LIQUID FILLED	NEMA 3R	80	12470	3	208	3	CU, EL		



**200 N. MARKET STREET** MARION, IL PH:618.998.0075

HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



LICENSE EXPIRES

ATHLETIC TRAINING FACILITY
WABASH VALLEY COLLEGE
2200 COLLEGE DRIVE, MOUNT CAF
ILLINOIS EASTERN COMMUNITY C

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272

DESIGN: DRAWN: CHECK: RLM RLM MTH

ELECTRICAL SCHEDULES

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REF. SCALE IN INCHES PROJECT #23001165.00

**MOUNTING:** SURFACE **ENCLOSURE**: NEMA 3R **FED FROM**: ₱₱**√2**₽5@ LOCATION: OUTDOOR PANEL ODP

**SOLID NEUTRAL GROUND BUS** 

MAIN: 600 A MCB **VOLTS:** 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 22 kA **ISC:** 18.20 kA

**NOTES:** PANEL SHALL BE FULLY RATED.

K	СКТ		OCF	חפ		NIRE SIZE		VD	Α		3	(	2	VD	1	WIRE SIZE		0	CPD		СКТ	K
Y	NO.	LOAD DESCRIPTION	AMPS			N	G	%	,,					%	G	N	Н		AMPS	LOAD DESCRIPTION	NO.	Y
	1	IRRIGATION PUMP	30 A	2				2.	23 23.8	38					250	250	4	3	250 A	NEW PANEL C1	2	
	3									2.23	21.68										4	
	5	SPARE	20 A	1								0	19.68								6	
	7	NEW PANEL DP-1	400 A	3	600	600	3	34	.99 4.2	2								2	50 A	GIRLS SOFTBALL BUILDING	8	
	9									32.78	4.2										10	
	11											26.84	1.5					1	20 A	EXISTING LOAD	12	
	13	EXISTING LOAD	20 A	1				1	.5 0									3	30 A	SPD	14	
	15	SPARE	20 A	1						0	0										16	
	17	SPARE	20 A	1								0	0								18	
	19	SPARE	20 A	1				(	0 4.5	5								3	50 A	LIFT STATION	20	
	21	SPARE	20 A	1						0	4.5										22	
	23	SPARE	20 A	1								0	4.5								24	
	Total Load: 71.30 k\						1.30 kV	A 65.39	kVA	52.53	8 kVA											
	Total Amps: 610.61						610.61	561	.39	437	7.74											

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	44.263 kVA	100.00%	44.263 kVA	IOTALS	
Power	75.33 kVA	100.00%	75.33 kVA	TOTAL CONNECTED LOAD:	189.21 kVA
Receptacles	9.96 kVA	100.00%	9.96 kVA	TOTAL ESTIMATED DEMAND LOAD:	177.28 kVA
Spare	59.66 kVA	80.00%	47.728 kVA	TOTAL CONNECTED AMPS:	525.20 A
				TOTAL ESTIMATED DEMAND AMPS:	492.1 A
*TOTAL DEMAND CALCS SUBTRACT	ANY REDUNDANT LOAD	AND THE SMALLER	OF ANY NONCOINCIDEN	T HVAC LOADS. THIS CALC IS DONE AT	EACH PANEL.

**CIRCUIT KEY NOTES:** 

MOUNTING: SURFACE **ENCLOSURE**: NEMA PB 1 **FED FROM**: 400 A/3P @ ODP **LOCATION: MECHANICAL 108** SPD: SPS-1 METER: DPM

**PANEL DP-1** SINGLE TUB **SOLID NEUTRAL GROUND BUS** 

MAIN: 400 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA **ISC:** 9.40 kA

NOTES: 100% RATED.

K						WIRE				^		<b>.</b>		,			WIRE SIZE					01/7	K
E Y	CKT NO.	LOAD DESCRIPTION	OCF AMPS		н	SIZE N	G	VD %	,	Ą		В	,	•	VD %	G	N	Н	1	CPD AMPS	LOAD DESCRIPTION	CKT NO.	E Y
	1	DOAS-1	100 A	3	3		8	1.66	8.94	1.5						10	8	8	2	20 A	EXISTING LOAD	2	
	3										8.94	1.5										4	
	5												8.94	0					1	20 A	SPARE	6	
	7	AHU-1	150 A	3	2		6	2.19	10.47	0.67									3	30 A	NEW SCOREBOARD	8	
	9										10.47	0.67										10	
	11												10.47	0.67								12	
	13	SPACE		1						0									1	20 A	SPARE	14	
	15	SPACE		1								0							1	20 A	SPARE	16	
	17	SPACE		1										0					1	20 A	SPARE	18	
ŀ	19	SPACE		1						0									1	20 A	SPARE	20	
	21	SPACE		1								0							1	20 A	SPARE	22	
-	23	SPACE		1										0					1	20 A	SPARE	24	
-	25	SPACE		1						0									1	20 A	SPARE	26	
-	27	SPACE		1								0							1	20 A	SPARE	28	
-	29	SPACE		1										0					1	20 A	SPARE	30	
	31	SPACE		1						0									1	20 A	SPARE	32	
	33	SPACE		1								0							1	20 A	SPARE	34	
	35	SPACE		1										0					1	20 A	SPARE	36	
-	37	SPACE		1						13.41					0.18	6	3/0	3/0	3	225 A	PANEL P1	38	
	39	SPACE		1								11.21										40	
-	41	SPACE		1										6.77								42	
						To	otal	Load:	34.99	kVA	32.78	3 kVA	26.84	l kVA									

**Total Amps:** 299.15 280.76 223.71 LOAD SUMMARY

		LUAD SUI	MINIAR I		
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	9.319 kVA	100.00%	9.319 kVA	TOTALS	
Power	75.33 kVA	100.00%	75.33 kVA	TOTAL CONNECTED LOAD:	94.61 kVA
Receptacles	9.96 kVA	100.00%	9.96 kVA	TOTAL ESTIMATED DEMAND LOAD:	94.608 kVA
				TOTAL CONNECTED AMPS:	262.61 A
				TOTAL ESTIMATED DEMAND AMPS:	262.6 A

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. **CIRCUIT KEY NOTES:** 

MOUNTING: SURFACE **ENCLOSURE**: NEMA PB 1 FED FROM: 225 A/3P @ DP-1

**LOCATION: MECHANICAL 108** 

PANEL P1 SINGLE TUB **SOLID NEUTRAL GROUND BUS** 

**MAIN:** 225 A MLO **VOLTS:** 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 10 kA **ISC:** 8.90 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OCF AMPS			WIRE SIZE N		VD %	,	A	E	3	(	3	VD %		VIRE Size N			CPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
	1	LTG RM 102-108,2A,4A &111	20 A	1	12	12	12	2.03	1.18	1.44					1.85	10	10	10	1	20 A	RCPT RM 101	2	T
	3	LTG RM 109 & 112	20 A	1	12	12	12	0.52			0.37	1.26			2.59	10	10	10	1	20 A	RCPT RM 101	4	
	5	LTG RM 101	20 A	1	12	12	12	2.54					1.17	0.82	1.09	12	12	12	1	20 A	RCPT RM 102, 111	6	
	7	LTG RM 101	20 A	1	10	10	10	1.96	1.17	0.82					1.92	12	12	12	1	20 A	RCPTS RM 103, EXTERIOR	8	T
	9	LTG RM 101	20 A	1	10	10	10	2.4			1.17	1.1			1.77	12	12	12	1	20 A	RCPTS RM 104, 110, EXTERIOR	10	T
	11	LTG RM 201	20 A	1	10	10	10	2.07					0.79	0.18	0.27	12	12	12	1	20 A	RCPTS RM 105	12	Т
	13	LTG EXTERIOR	20 A	1	12	12	12	1.44	0.28	0.18					0.21	12	12	12	1	20 A	RCPTS RM 105	14	T
	15	EWH RM 105	25 A	2	8		10	0.87			0.39	0.18			0.24	12	12	12	1	20 A	RCPTS RM 105	16	T
	17												0.39	1.1	0.95	12	12	12	1	20 A	RCPTS RM 105,06,07,13 & EXTE.	18	T
	19	EWH RM 106	20 A	2	10		10	0.88	2.5	0.54					0.41	12	12	12	1		EWC, RCPTS RM 108,109 &112	20	T
	21										2.5	0.5			0.1	12	12	12	1		EWC RM 112	22	*
	23	EWH RM 107	15 A	2	12		12	0.78					0.39	1	0.88	$\overline{}$	12	12	1		ICE MACHINE	24	t
	25								0.39	3					0.5	10		8	2	40 A	WH-1 RM 108	26	T
	27	EWH RM 108	15 A	2	12		12	0.16			0.38	3										28	t
	29												0.38	0.2	0.14	12	12	12	1	15 A	CP-1 RM 108	30	t
		RCPTS RM 201	20 A	1	12	12	12	2.22	0.72	1.2									1		ELECTRONIC SCOREBOARD	32	+
		RCPTS RM 201	20 A	1	12		12	0.36			0.36	0							1		SPARE	34	+
		RCPTS RM 201	20 A	1	12								0.36	0					1		SPARE	36	Τ.
	37	SPARE	20 A	1					0	0									1		SPARE	38	T.
	39	SPARE	20 A	1							0	0							1		SPARE	40	t
	41	SPARE	20 A	1									0	0					1		SPARE	42	+
	43	SPARE	20 A	1					0	0									1	20 A	SPARE	44	+
	45	SPACE		1															1		SPACE	46	Τ.
	47	SPACE		1															1		SPACE	48	Ť.
	49	SPACE		1															1		SPACE	50	١.
	51	SPACE		1															1		SPACE	52	t.
	53	SPACE		1															1		SPACE	54	١.
	55	SPACE		1															1		SPACE	56	+
	57	SPACE		1															1		SPACE	58	+
		SPACE		1															1		SPACE	60	
						1		_oad:	13.4	1 kVA	11 21	∟ I kVA	6.77						•				1
								mps:		7.45		.06	56										
						10	lai A	uilþa.	117	.40	99	.00	30	.43									
										LC	DAD SU	JMMA	RY										
0/	AD CL	ASSIFICATION		C	ONN	ECT	ED L	OAD	DEM	AND F	ACTO	R ES	TIMA	ΓED D	EMAN	ID [					TOTALS*		

MOUNTING: SURFACE **ENCLOSURE:** NEMA 1

**FED FROM**: 250 A/3P @ ODP

**LOCATION:** SOCCER CONCESSIONS

CIRCUIT KEY NOTES: \*G - PROVIDE A GFCI CIRCUIT BREAKER

PANEL C1 SINGLE TUB **SOLID NEUTRAL GROUND BUS** 

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

7.319 kVA

14.11 kVA

9.96 kVA

100.00%

100.00%

100.00%

7.319 kVA

14.11 kVA

9.96 kVA

MAIN: 250 A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 14 kA **ISC:** 11.70 kA

TOTALS\*

TOTAL ESTIMATED DEMAND LOAD: 31.388 kVA

**TOTAL ESTIMATED DEMAND AMPS:** 87.1 A

31.39 kVA

87.13 A

TOTAL CONNECTED LOAD:

TOTAL CONNECTED AMPS:

NOTES:

Receptacles

K E	CKT	LOAD DECODINE	ОСР	_		WIRI SIZE	Ξ	VD		A	E	3		3	VD	-	WIRE SIZE N		_	CPD LOAD DESCRIPTION	СКТ	K E
Υ	NO.	LOAD DESCRIPTION	AMPS		Н	N	G	%						1	%	<u> </u>	14	-''		AMPS LOAD DESCRIPTION	NO.	<b>Y</b>
	1	EXISTING SOCCER FIELD LIGHTS	30 A	2					2.5	2.5									2	30 A EXISTING SOCCER FIELD LIGHTS	2	
	3	<del></del>									2.5	2.5									4	
	5	EXISTING SOCCER FIELD LIGHTS	30 A	2									2.5	2.5					2	30 A EXISTING SOCCER FIELD LIGHTS	6	
	7	<del>-</del>							2.5	2.5											8	
	9	EXISTING SOCCER FIELD LIGHTS	30 A	2							2.5	2.5							2	30 A EXISTING SOCCER FIELD LIGHTS	10	
	11	<del></del>											2.5	2.5							12	
	13	EXISTING SOCCER FIELD LIGHTS	30 A	2					2.5	1.7									1	20 A EXISTING CONCESSIONS LOAD	14	
	15										2.5	1.7							1	20 A EXISTING CONCESSIONS LOAD	16	
	17	EXISTING CONCESSIONS LOAD	20 A	1									1.7	1.7					1	20 A EXISTING CONCESSIONS LOAD	18	
	19	EXISTING CONCESSIONS LOAD	20 A	1					1.7	1.7									1	20 A EXISTING CONCESSIONS LOAD	20	
	21	EXISTING CONCESSIONS LOAD	20 A	1							1.7	1.7							1	20 A EXISTING CONCESSIONS LOAD	22	
	23	EXISTING CONCESSIONS LOAD	20 A	1									1.7	1.5					2	20 A EXISTING CONCESSIONS LOAD	24	
	25	EXISTING CONCESSIONS LOAD	20 A	1					1.7	1.5									-		26	
	27	EXISTING CONCESSIONS LOAD	20 A	1							1.7	2.4							1	30 A EXISTING CONCESSIONS LOAD	28	
	29	EXISTING CONCESSIONS LOAD	40 A	2									3.1	0					1	20 A SPARE	30	
	31								3.1	0									1	20 A SPARE	32	
	33	SPARE	20 A	1							0	0							1	20 A SPARE	34	
	35	SPARE	20 A	1									0	0					1	20 A SPARE	36	
	37	SPARE	20 A	1			T		0										1	SPACE	38	
	39	SPARE	20 A	1							0								1	SPACE	40	
	41	SPACE		1			T												1	SPACE	42	
	ı				1	To	otal I	Load:	23.88	kVA	21.68	kVA	19.68	kVA						1	1	
			Total Amp					mps:	201	.56	183	3.23	164	1.03		-						ĺ

		LOAD SUM	MARY		
OAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
ghting	34.944 kVA	100.00%	34.944 kVA	IOTALS	
pare	30.3 kVA	80.00%	24.24 kVA	TOTAL CONNECTED LOAD:	65.24 kVA
				TOTAL ESTIMATED DEMAND LOAD:	59.184 kVA
				TOTAL CONNECTED AMPS:	181.10 A
				TOTAL ESTIMATED DEMAND AMPS:	164.3 A

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL. CIRCUIT KEY NOTES:

HURST-ROSCHE, Inc. PROFESSIONAL DESIGN NUMBER: 184-000298

200 N. MARKET STREET MARION, IL PH:618.998.0075

> HILLSBORO, IL EAST ST. LOUIS, IL SPRINGFIELD, IL ARNOLD, MO NASHVILLE, TN



11-30-2025 LICENSE EXPIRES

> 62863 WABASH VALLEY COLLEGE 2200 COLLEGE DRIVE, MOUNT ILLINOIS EASTERN COMMUNITY ATHLETIC TRAINING FACILITY

MARK DATE DESCRIPTION DATE: 04-23-2024 PROJECT NO: 395-3272 DESIGN: DRAWN: CHECK: RLM RLM MTH

**ELECTRICAL PANEL** SCHEDULES

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0 1 2 3 REF. SCALE IN INCHES PROJECT #23001165.00