

HENRY CLAY HS SOFTBALL FIELD HOUSE

2100 Fontaine Rd, Lexington, KY 40502



*IMAGE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO DRAWINGS.

DRAWING INDEX	ABBREVIATIONS	PROJECT GENERAL NOTES
CIVIL L1.0 EROSION PREVENTION SEDIMENT CONTROL PLAN L1.1 SITE DEMOLITION PLAN L2.0 SITE GRADING PLAN L2.1 CIVIL SITE UTILITIES PLAN C2.0 SITE GRADING PLAN ADJ Adjustable / Adjacemt L3.0 SITE LAYOUT & MATERIALS PLAN L6.0 SITE DETAILS	A And @ At A/C Air Conditioning AB Anchor Bolt ADH Adhesive ADJ Adjustable / Adjacemt AFF Above / Finished Floor AGG Aggregate AHU Air Handling Unit ALUM Aluminum ANCH Anchor APPROX Approximate ASSY Assembly AUTO Automatic B Bottom Of BD Board BIT Bituminous BLK Block BLKG Blocking BM Beam, Bench Mark BOT or BTM Bottom C/C or OC Center to Center CAB Cabinet CER Ceramic CF Cubic Feet CFI Contractor Furnished & Installed CHAN Channel CIP Cast in Place CJ Control Joint CL Ceiling CLO Closet CLR Clear CMU Concrete Masonry Unit COL Column CONC Concrete COND Condition, Condenser, Condensate CONST Construction CONT Continuous CONTR CONTRACTOR CSG CASING CTS Counter/sink CW Cold Water, Clockwise D Double DBL Depressed DET Detail DIA Diameter DIM Dimension DN Down DS Downspout DWG(S) Drawing(s) E (E) Existing EA Each EJ Expansion Joint EL or ELEV Elevation ELEC Electric, Electrical EMERG Emergency ENCL Enclosure EO Equal EQUIP Equipment EQUIV Equivalent ESMT Easement EXIST Existing EXP Expansion EXT Exterior F Fabricate FC Fire Code FD Floor Drain FDN Foundation FFE Finished Floor Elevation FH Flat Head FN Finish, Finished FL Floor FLASH Flashing FLEX Flexible FRT Fire Retardant Treated FTG Footing FURR Furring FV Field Verify G Gauge GALV Galvanized GEN Generator GFI Ground Fault Interrupt GL Glass, Glazing GLUE LAM Glue-Laminated GND Ground GR Grate GST Glazed Structural Tile GYP Gypsum HB Hose Bib HC Hollow Core HD WD Hardwood HDR Header HDRW Hardware HM Hollow Metal HORIZ Horizontal HP Horse Power HT Height HTG Heating HTR Heater HW Hot Water, Hard White I Insulation ICF Insulated Concrete Form ID Inside Diameter / Inside Dim IF Inside Fins IFA Integrated Framing Assembly INSUL Insulation INT Interior INV Invert IR Inner Radius J Junction Box JB Joist JT Joint K Kentucky Building Code L Angle, Long LAM Laminated LF Light Fixture, Linear Feet LH Left Hand LLV Long Leg Vertical LOC Location LOL Laugh Out Loud LT Light LTWT Lightweight M M.B.M. Metal Building Manufacturer MAS Masonry MATL Material MAX Maximum MC Miscellaneous Channel MECH Mechanical MED Medium, Medicine MFR Manufacturer MIN Minimum, minute MISC Miscellaneous MPE Mechanical, Plumbing, & Electrical MT Mount MTD Mounted MTG Mounting MTL Metal MULL Mullion	1 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. 2 THE TERM "FURNISH" MEANS TO SUPPLY AND DELIVER TO THE PROJECT SITE. "INSTALL" MEANS TO PLACE IN POSITION FOR THE CONTRACTOR TO "PROVIDE" MEANS TO FURNISH AND INSTALL. 3 NOTES INDICATED AS N.I.C. (NOT IN CONTRACT) ARE SHOWN FOR COORDINATION PURPOSES ONLY. 4 SEE STRUCTURAL DRAWINGS FOR TYPES, SIZE, LOCATION, CONNECTIONS, REINFORCEMENT AND OTHER REQUIREMENTS PERTAINING TO STRUCTURAL COMPONENTS INDICATED. 5 SEE STRUCTURAL DRAWINGS FOR LINTEL SCHEDULES. WHERE STEEL PLATES ARE A PART OF LINTELS, FACE OF LINTEL SHALL BE INSET 1/2" FROM FACE OF CMU. ALL RELIEF ANGLES AND EXPOSED COMPONENTS OF STEEL LINTELS AND SUPPORTS IN EXTERIOR WALLS SHALL BE GALVANIZED. ALL EXPOSED PORTIONS OF LINTELS AND SUPPORTS SHALL BE PAINTED. TYP. 6 COLUMN LINES INDICATED ARE REFERENCE LINES ONLY AND MAY NOT INDICATE CENTER OF COLUMN. SEE ENLARGED PLANS / DETAILS AND STRUCTURAL DRAWINGS WHERE APPLICABLE. 7 PROVIDE ADDITIONAL HEADERS AS REQUIRED TO ACCOMMODATE ELECTRICAL, HVAC AND PLUMBING PENETRATIONS. 8 CONTACT BETWEEN DISSIMILAR METALS SHALL BE SEPARATED WITH BUTYL TAPE. 9 FIRESTOPPING SHALL BE INSTALLED AT PENETRATIONS THROUGH SLABS AS REQUIRED TO MAINTAIN INDICATED FIRE RATING. FIRESTOPPING IS NOT REQUIRED AT SLAB PENETRATIONS WHICH ARE ENCLOSED WITHIN RATED SHAFT CONSTRUCTION. 10 ALL PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED - USE THE MANUFACTURER'S UL TESTED ASSEMBLY FOR THE RATING OF THAT ASSEMBLY. RATED WALLS FILL VOIDS W/ FIRE SAFING AND PROVIDE BACKER ROD AND FIRE RATED SEALANT ON BOTH SIDES OF WALL. 11 ALL GYPSUM BOARD SHALL BE TYPE "X" AT FIRE RATED CONSTRUCTION OR AS NOTED. 12 MASONRY VENEER SHALL RETURN TO SHEATHING OR FRAMING AT WALL OPENINGS U.N.O. 13 REFER TO FOUNDATION PLAN AND ELEVATIONS FOR CONTROL JOINTS IN CONCRETE AND MASONRY. 14 BACKER ROD SHALL BE USED BEHIND ALL EXTERIOR SEALANT CONDITIONS (TYP.) WHERE SPECIFIC CONDITIONS DO NOT ALLOW BACKER ROD TO BE USED. A BOND BREAKER SHALL BE USED AT THE BACK OF THE JOINT. 15 PAINTED ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHERE REQUIRED TO MAINTAIN CONCEALED ELEC. MECH. SYSTEMS AND ACCESS POINTS WHETHER OR NOT INDICATED ON THESE DRAWINGS. LOCATIONS SHALL BE APPROVED BY ARCHITECT. 16 CORNER BEADS SHALL BE USED AT ALL GYPSUM BOARD OUTSIDE CORNERS. TYP. CASING BEADS SHALL BE USED AT ALL GYPSUM BOARD TERMINATIONS. TYP. 17 BATT INSULATION SHALL BE MECHANICALLY FASTENED TO WALLS. 18 PAINT ALL EXPOSED GAS PIPING TO PREVENT RUST - IF VISIBLE, ARCHITECT TO SELECT FINISH / COLOR. 19 FLOOR FINISHING TRANSITIONS HAPPEN AT DOOR THRESHOLDS U.N.O. 20 CONCEALED FRT WOOD BLOCKING SHALL BE PROVIDED AS REQUIRED BY MANUFACTURER OR INSTALLER OF WALL-MOUNTED EQUIPMENT OR FURNISHINGS. 21 ALL WOOD BLOCKING, NAILERS AND PLYWOOD SHALL BE FIRE RETARDANT TREATED (FRT), EXCEPT AT COPINGS WHERE BLOCKING SHALL BE PRESSURE TREATED (PT). 22 ALL FRT WOOD FRAMING AND/OR BLOCKING IN CONTACT WITH CONCRETE AND/OR MASONRY SHALL ALSO BE PT. 23 SEPARATE PT WOOD FROM METALS W/ BUILDING FELT TAPE OR APPROVED METHOD. ANCHORS IN PT WOOD SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED G-90. 24 THE LOCATION OF ALL HVAC, ELEC. & PLUMBING COMPONENTS (I.E. DUCTWORK, ELEC. SERVICE TUBS, TOILETS) SHALL BE COORDINATED PRIOR TO THE FINISHMENT OF CONC. SLABS, PLANKS & FLOOR JOISTS. 25 LABELED ITEMS ARE NEW, (N), UNLESS LABELED AS EXISTING, (E), OR U.N.O. (E) PORTIONS OF THE BUILDING MAY NOT BE LABELED OR DETAILED, (E) AREAS SHOWN FOR REFERENCE ONLY. 26 IF (E) CONDITIONS VARY FROM THOSE SHOWN ON DRAWINGS, BRING TO THE ATTENTION OF ARCHITECT BEFORE PROCEEDING. INFORMATION COMPILED FROM FIELD MEASUREMENTS AND ORIGINAL CONSTRUCTION DOCUMENTS SUPPLIED BY THE OWNER. 27 THE CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS, ELEVATIONS AND ALL CONDITIONS RELATED TO (N) WORK. 28 (E) PAINTED SURFACES IN AREAS OF (N) WORK SHALL BE CLEANED AND PAINTED U.N.O. COLORS TO BE SELECTED BY ARCHITECT. 29 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING AND REPAIRING DUE TO DEMOLITION AND/OR REMOVAL OF ITEMS TO CREATE A FLUSH, SMOOTH SURFACE PROPERLY PREPARED TO RECEIVE (N) FINISHES AS SCHEDULED. CONTRACTOR SHALL SCAP IN (N) CMU OR BRICK TO MATCH (E) ADJACENT AREAS WHERE REQUIRED. 30 IN AREAS OF DEMOLISHING OR REMOVAL, CAP/SEAL AND/OR RE-ROUTE EXISTING UTILITIES AS REQUIRED FOR COMPLETE, FUNCTIONING AND FINISHED PROJECT. CONTRACTOR TO COORDINATE UTILITY DEACTIVATION, SWITCH OVER AND ACTIVATION WITH OWNER / ARCHITECT PRIOR TO DEMOLITION. 31 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO (E) ITEMS TO REMAIN CAUSED BY THE DEMOLITION, WORK OR WEATHER EXPOSURE. FIRE RATED ASSEMBLIES AND STRUCTURAL SYSTEMS TO REMAIN COMPLETE AND INTACT. PATCH/REPAIR/REPLACE IN AREAS OF WORK TO PROVIDE COMPLETE FINISHED SURFACES. 32 CONTRACTOR IS RESPONSIBLE FOR PHASING / SCHEDULING OF WORK WITH EXISTING BUILDING AND SERVICES - COORDINATE W/ OWNER & ARCHITECT PRIOR TO CONSTRUCTION. 33 THE BUILDING OWNER IS RESPONSIBLE FOR IDENTIFYING WORK PLACE HAZARDS AND HAZARDOUS MATERIALS PRIOR TO CONSTRUCTION, RENOVATION, OR DEMOLITION. INTEGRITY ARCHITECTURE ASSUMES NO LIABILITY, EXPRESSES OR IMPLIES NO OR ANY WARRANTY OR GUARANTEE, AS TO THE COMPLETENESS OF THE OWNERS OR ITS CONSULTANTS DUE DILIGENCE TO IDENTIFY WORK PLACE HAZARDS OR HAZARDOUS MATERIALS THAT MAY BE ENCOUNTERED DURING THE CONTRACTORS SCOPE OF WORK. 34 DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS. IF CONDITIONS ARISE THAT ARE NOT COVERED BY A TYPICAL DETAIL, THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. 35 PROVIDE MECHANICAL PLUMBING, ELECTRICAL (INCLUDING EXIT SIGNS AND EMERGENCY LIGHTING) AND FIRE PROTECTION ITEMS FOR EACH ROOM/SPACE AS REQUIRED PER CODE AND OWNER REQUIREMENTS.

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VICINITY MAP

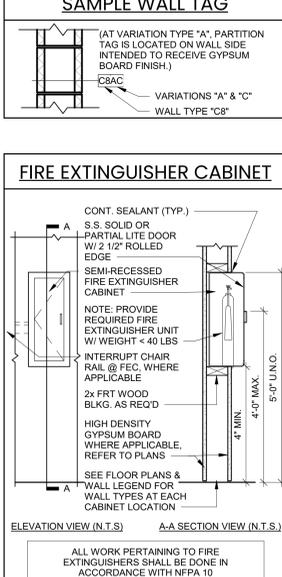
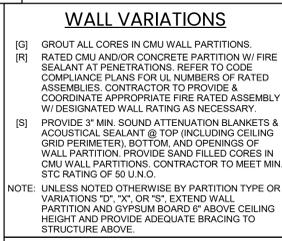
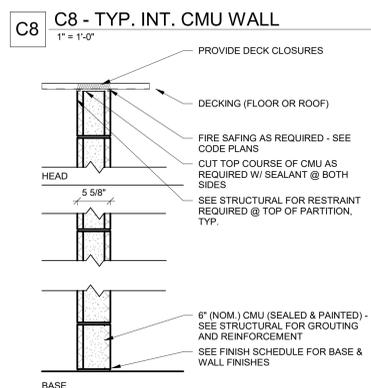
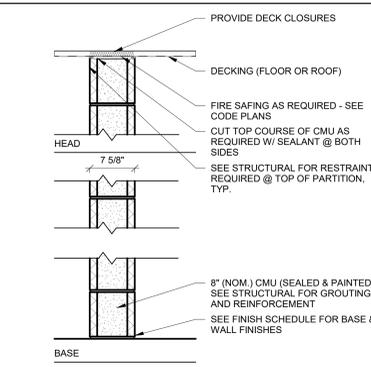


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SOFTBALL FIELD
HOUSE

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SHEET NAME
COVER SHEET &
PROJECT NOTES

PROJECT NO. 2220
DATE JAN 16 2023

NO.	DESCRIPTION	DATE

SHEET NUMBER
A0.0



EPSC NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED BY AN EXISTING SURVEY BY GDP ENGINEERS. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE CONTRACT DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL UTILITY LOCATIONS.
- C. THE DESIGNATED CONCRETE WASH OUT PIT SHALL BE CLEANED AND ALL CONCRETE AND ASSOCIATED DEBRIS SHALL BE REMOVED AND HAULED OFF SITE AND THE CONCLUSION OF ALL CONCRETE CONSTRUCTION WORK. CONCRETE WASH OUT PIT SHALL BE AT A MINIMUM A STRAIN BALE ENCLOSURE WITH PLASTIC LINER. TO BE REMOVED AT THE END OF CONCRETE CONSTRUCTION OPERATIONS AND SITE AREA AT WASH OUT PIT TO BE RESTORED, GRADED AND SEEDED.
- D. LIMIT CONSTRUCTION ACCESS TO THE SITE TO THE LOCATION INDICATED AS AN ACCESS DRIVEWAY. TEMPORARY ACCESS DRIVEWAYS FOR CONSTRUCTION VEHICLES SHALL BE GRAVELED A MINIMUM OF 6" DEPTH WITH FILTER FABRIC PLACED BETWEEN SOIL AND STONE FOR A DISTANCE OF 100 FEET INTO THE SITE AND MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. THE ACCESS DRIVE TO THE SITE SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE ACCUMULATION OF MUD, DIRT, DUST AND OTHER DEBRIS CAUSED BY THE CONTRACTOR'S OPERATIONS. THE DRIVE SHALL BE CHECKED DAILY AND CLEANED BY THE CONTRACTOR AS REQUIRED TO MAINTAIN THIS CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- E. PRIOR TO BEGINNING GRADING OPERATIONS, SURROUND ALL DRAINAGE INLET STRUCTURES WITH ROCK BAGS, STONE, OR TEMPORARY SILT FENCE FOR SILT CONTROL. SEE DETAIL A/L6.0 AND B/L6.0 AND PROVIDE CHECK DAMS AT ALL DRAINAGE SWALES. MAINTAIN IN GOOD OPERATING CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. REMOVE AFTER SURROUNDING PERMANENT VEGETATION IS ESTABLISHED OR SURROUNDING PAVEMENT IS INSTALLED. THE CONTRACTOR SHALL MAINTAIN ALL STORM DRAINAGE SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD.
- F. SILT FENCING SHALL BE INSTALLED PRIOR TO THE BEGINNING OF GRADING OPERATIONS AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD UNTIL PERMANENT VEGETATION IS ESTABLISHED. SEE SILT FENCING DETAIL. REFER TO PLAN FOR APPROXIMATE LOCATIONS. MAINTENANCE INCLUDES INSPECTION ONCE PER WEEK, IMMEDIATELY AFTER EACH RAINFALL OF 1/2" OR MORE, AND AT LEAST DAILY DURING PROLONGED PERIODS OF RAIN. REPAIR ANY UNDERGUTTINGS OR END RUNS. REPLACE DAMAGED FABRIC SECTIONS PROMPTLY. REMOVE SEDIMENT DEPOSITS WHEN DEPOSITS REACH APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER. UPON FINAL REMOVAL OF BARRIER, GRADE OUT ANY DEPOSITS TO CONFORM TO EXISTING SURROUNDING GRADE, AND SCD THE AREA.
- G. TO REDUCE EROSION, MUD AND DUST FROM EXPOSED SOIL AREAS, TEMPORARY SEEDING SHALL BE DONE ON EXPOSED SOIL SURFACES IN LAWN AND LANDSCAPE AREAS WHERE ADDITIONAL GRADING WORK IS NOT SCHEDULED FOR A PERIOD OF 2 WEEKS OR MORE. MAINTAIN AND RE-SEED AS NEEDED THROUGHOUT CONSTRUCTION PERIOD UNTIL FINISH GRADES ARE ESTABLISHED.
- H. STOCKPILED TOPSOIL SHALL BE PROTECTED FROM WIND AND WATER EROSION BY TEMPORARY VEGETATIVE SEEDING. IN ADDITION, PROVIDE SILT FENCING AT THE PERIMETER OF STOCKPILES TO PREVENT SEDIMENT RUNOFF. MAINTAIN VEGETATIVE COVER AND SILT FENCING UNTIL TOPSOIL STOCKPILES ARE REMOVED. BARE AREAS THAT ARE ACTIVELY UNDER WORK AND NOT SEEDED SHALL BE WATERED AS NEEDED TO PREVENT WIND EROSION / DUST.
- I. THE CONTRACTOR SHALL OBTAIN A STORM WATER PERMIT / SUBMITTING A NOTICE OF INTENT (KYR10) TO THE KENTUCKY DIVISION OF WATER AND ANY APPLICABLE PERMITS FROM STATE AND LOCAL GOVERNING AGENCIES. IN ADDITION, THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION AND MAINTENANCE SHOWN ON THIS PLAN AS PART OF THE CONTRACT SCOPE OF WORK.
- J. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING AN ON SITE MAINTENANCE LOG OF ALL EROSION CONTROL FEATURES AND BMP'S. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR'S SUPERINTENDENT OR OTHER DULY AUTHORIZED FIELD REPRESENTATIVE SHALL INSPECT ALL BMP'S AS LISTED IN THE LOG BOOK, NOTE THE CONDITION AND PERFORMANCE OF EACH BMP AND TAKE CORRECTIVE ACTION FOR EACH BMP AS REQUIRED.
- K. BEST MANAGEMENT PRACTICES (BMP) MANUAL IN ADDITION TO THIS PLAN, THE CONTRACTOR SHALL COMPLY WITH THE MANUAL ENTITLED KENTUCKY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES, CURRENT EDITION, PREPARED BY THE KENTUCKY DIVISION OF CONSERVATION AND OF WATER. THE CONTRACTOR SHALL ALSO COMPLY WITH THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL, FIELD GUIDE, CURRENT EDITION. THE CONTRACTOR SHALL MAKE APPROPRIATE MODIFICATIONS TO THIS PLAN AS NECESSARY TO ACHIEVE THE PLAN GOAL OF MINIMIZING EROSION AND SEDIMENTATION. ANY SUCH CHANGES ARE SUBJECT TO REVIEW BY THE LANDSCAPE ARCHITECT.
- L. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR WILL PROMPTLY REPAIR, REBUILD, REPLACE, CLEAN OUT OR OTHERWISE MODIFY ANY BMP'S THAT REQUIRE ATTENTION OR THAT DO NOT PERFORM AS REQUIRED. THE CONTRACTOR WILL NOTE IN THE MAINTENANCE LOG WHAT MAINTENANCE OR RECONSTRUCTION WAS REQUIRED AND ANY ACTION TAKEN.
- M. TO REDUCE EROSION, MUD AND DUST FROM EXPOSED SOIL AREAS, TEMPORARY SEEDING SHALL BE DONE ON EXPOSED SOILS. FOR ANY BMP'S THAT DO NOT APPEAR TO PERFORM AS DESIGNED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER (A/E) FOR REVIEW. IF THE A/E AND OR STATE AND LOCAL GOVERNING AGENCY DETERMINE THAT A BMP NEEDS TO BE REDESIGNED OR REPLACED WITH ANOTHER MORE APPROPRIATE BMP BECAUSE OF ACTUAL FIELD PERFORMANCE OR OTHERWISE, UPON APPROVAL OF THE OWNER, THE A/E WILL MAKE THOSE DESIGN CHANGES AND PROVIDE TO THE CONTRACTOR FOR CONSTRUCTION. IF THIS REQUIRES MEASURABLE ADDITIONAL WORK ABOVE THE SPECIFIED SCOPE OF WORK, THE CONTRACTOR MAY REQUEST A CHANGE ORDER FOR THE WORK.
- N. UPON COMPLETION OF THE PROJECT, AND ONCE FINAL VEGETATIVE COVER HAS BEEN ESTABLISHED TO THE SATISFACTION OF THE A/E THE CONTRACTOR WILL REMOVE ALL BMP'S AND SUBMIT A NOTICE OF TERMINATION (NOT) TO THE DIVISION OF WATER & APPLICABLE STATE AND LOCAL GOVERNING AGENCIES.
- O. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INLET PROTECTION FOR ALL EXISTING AND PROPOSED STORM STRUCTURES WITHIN THE LIMIT OF CONSTRUCTION.
- P. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND AVAILABILITY OF SITES WITH THE OWNER PRIOR TO BEGINNING WORK AT ANY GIVEN SITE.
- Q. ALL ROADS AND DRIVES USED TO ACCESS THE SITE SHALL BE KEPT CLEAN AND FREE OF MUD & SILT DURING THE CONSTRUCTION PERIOD. PERIODIC INSPECTION BY GOVERNING OFFICIALS WILL OCCUR. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING THE VEHICLE WASH DOWN AREAS INDICATED ON THIS PLAN.

EPSC SCHEDULE

BMP SCHEDULE	
ELEMENT	TIMING / DURATION
Silt Fencing	Install at beginning of grading operations. Maintain until permanent vegetation is established.
Temporary Seeding	Immed. after rough grading, lawn & landscape areas. Maintain until permanent vegetation is established.
Temporary Topsoil Stockpile Seeding	Immed. after topsoil is stripped and stockpiled. Maintain until stockpiles are removed.
Silt Fencing at Stockpile Perimeters	Immed. after topsoil is stripped and stockpiled. Maintain until stockpiles are removed.
Drainage Swales	Create at beginning of grading operations. Permanent feature.
Check Dams in Swales	As soon as swales are created. Maintain until permanent vegetation is established.
Construction Access Drives	Install at beginning of grading operations. Maintain throughout construction period
Rock/Silt Fence Exist. Inlet Protection	Install at beginning of grading operations. Maintain until permanent vegetation is established.
Rock/Silt Fence New Inlet Protection	As soon as drainage inlets are installed. Maintain until permanent vegetation is established.
Sod/Seed	Immediately after finish grading. Permanent feature.

EPSC LEGEND

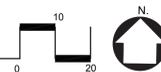
- SILT FENCING
SEE NOTES AND DETAIL A/L6
- SILT PROTECTION AT STORM INLETS AS NEEDED WITHIN WORK LIMITS
SEE NOTES AND DETAIL B/L6
- CONCRETE WASH OUT PIT
SEE NOTES
- CONSTRUCTION ACCESS DRIVE
SEE NOTES AND DETAIL C/L6

EPSC KEYNOTES

1. SILT FENCING, SEE DETAIL A/L6. SILT FENCING MAY BE COMBINED WITH CONSTRUCTION FENCING. WHERE SILT FENCING AND CONSTRUCTION FENCING ARE COMBINED, CORR LOSS MAY BE USED IN PLACE OF SILT FENCE. EXTEND SILT FENCE TO INCLUDE DOWNSLOPE OF ANY AREAS DISTURBED / LEFT BARE BY CONSTRUCTION ACTIVITIES.
2. CONSTRUCTION ACCESS DRIVE, CONSTRUCT PER DETAIL C/L6. CONTRACTOR SHALL SAWCUT INCLUDE SAWCUT, REMOVAL AND REPLACEMENT OF PAVEMENT DAMAGED BY CONSTRUCTION ACCESS / TRAFFIC IN THEIR BIDS. LEAVE PATHWAY FOR PEDESTRIAN TRAFFIC AROUND FENCELINE MIN. 5' IN ALL LOCATIONS.
3. EXISTING CONCRETE / IMPERVIOUS PADS TO BE REMOVED, SEE L-2.0.

EROSION PREVENTION & SEDIMENT CONTROL PLAN

SCALE 1" = 20'-0"



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EROSION
PREVENTION
SEDIMENT
CONTROL PLAN

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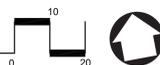
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L1.0



SITE DEMOLITION PLAN

SCALE 1" = 20'-0"



SITE DEMOLITION NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED BY GDP ENGINEERS. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE CONTRACT DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL UTILITY LOCATIONS.
- C. LIMIT CONSTRUCTION ACCESS TO THE SITE TO THE LOCATION INDICATED AS AN ACCESS DRIVEWAY(D'S). TEMPORARY ACCESS DRIVEWAYS FOR CONSTRUCTION VEHICLES SHALL BE GRAVELED A MINIMUM OF 6" DEPTH WITH FILTER FABRIC PLACED BETWEEN SOIL AND STONE FOR A DISTANCE OF 100 FEET INTO THE SITE AND MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. THE ACCESS DRIVE TO THE SITE SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE ACCUMULATION OF MUD, DIRT, DUST AND OTHER DEBRIS CAUSED BY THE CONTRACTOR'S OPERATIONS. THE DRIVE SHALL BE CHECKED DAILY AND CLEANED BY THE CONTRACTOR AS REQUIRED TO MAINTAIN THIS CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- D. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND AVAILABILITY OF SITES WITH THE OWNER PRIOR TO BEGINNING WORK AT ANY GIVEN SITE.
- E. REFER TO L1 (EPCG PLAN) AND L2 (SITE DEMOLITION PLAN) FOR ADDITIONAL CONSTRUCTION PHASING NOTES AND REQUIREMENTS.
- F. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SITE DEMOLITION LEGEND

-  EXISTING CONCRETE PAD TO BE REMOVED
-  TEMPORARY CONSTRUCTION FENCE, 6' CHAIN LINK FENCE. COORDINATE FINAL LOCATION IN THE FIELD WITH FGPS.
-  EXISTING TREELINE TO BE CLEARED BACK TO ALLOW FOR GRADING WORK.

SITE DEMOLITION KEYNOTES

- 1. EXISTING CONCRETE PAD TO BE REMOVED, FULL SECTION TO ACCOMMODATE NEW BUILDING AND SITE CONSTRUCTION.



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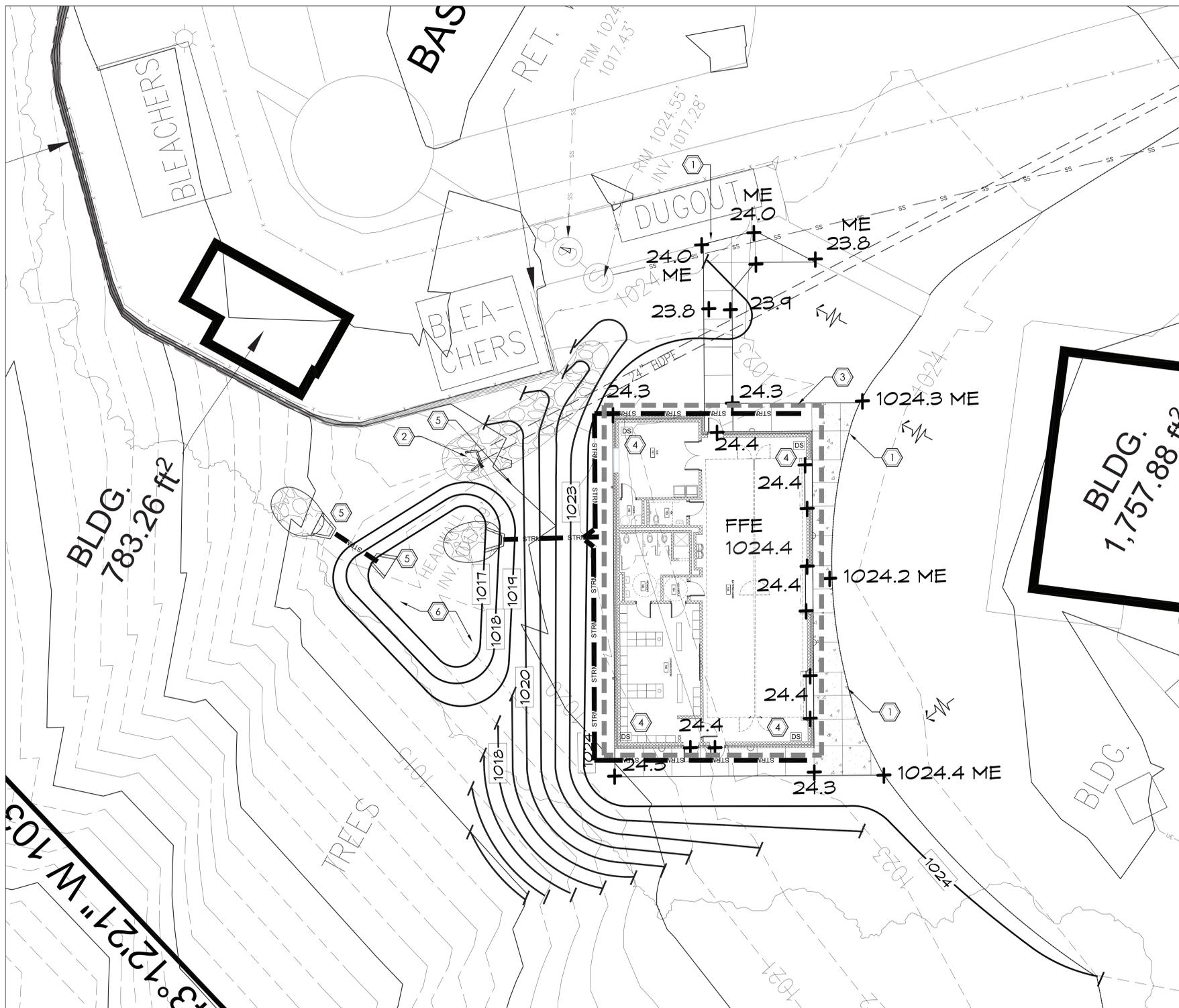
SITE DEMOLITION
PLAN

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L1.1



GRADING & DRAINAGE NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED BY CDP ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION; THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS.
- C. PROTECT EXISTING TREES FROM POTENTIAL DAMAGE OF CONSTRUCTION OPERATIONS. STEEPEN GRADES UPHILL FROM EXISTING TREES TO A MAX. OF 2:1 TO AVOID FILLING SOILS ONTO TRUNKS.
- D. UNLESS OTHERWISE INDICATED TO BE REMOVED, ALL ITEMS REMAINING WITHIN THE LIMIT OF CONTRACT ARE TO REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- E. THE CONTRACTOR SHALL MAINTAIN STORM DRAINAGE SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD.
- F. PROPOSED GRADES SHOWN ARE FINISHED GRADES. FOR FIBER MULCH SURFACED AREAS, CONTRACTOR SHALL GRADE AND INSTALL PER DETAIL J/L6.1, TO TOP OF COMPACTED DGA BASE MATERIAL.
- G. LIMIT OF GRADING EXTENTS TO INCLUDE ALL AREAS DISTURBED BY ALL SITE UTILITY WORK, REFER TO SITE UTILITY DRAWINGS FOR LOCATIONS OF PROPOSED SITE UTILITIES.
- H. REFER TO SPECIFICATION / PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- I. ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO MATCH PROPOSED FINISHED GRADES.
- J. GRADE ALL NEW PAVEMENTS TO DRAIN. GRADE ALL NEW WALKS TO MAX. 2% CROSS SLOPE. GRADE ALL NEW WALKS TO MAX. 5% LONGITUDINAL SLOPE UNLESS OTHERWISE SPECIFICALLY INDICATED ON PLANS TO BE A RAMP.

GRADING & DRAINAGE LEGEND

— (dashed) —	PROPOSED CONTOUR	— (solid) —	NEW 8" STORM LINE, SEE DETAIL E/L6.0
+ (number)	PROPOSED SPOT ELEVATION	— (dashed) —	NEW FOUNDATION DRAIN, SEE KEYNOTE 3
FV	FIELD VERIFY	DS	DOWNSPOUT LOCATION, SEE KEYNOTE 4
ME	MATCH EXISTING	○ (number)	CLEANOUT, SEE DETAIL G/L6.0
← (arrow)	DRAINAGE DIRECTION	— (hatched) —	PIPE END SECTION, SEE KEYNOTE 5

GRADING & DRAINAGE KEY NOTES: ①

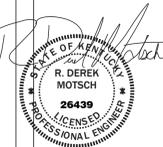
- 1. MATCH EXISTING GRADES AT PAVEMENT EDGES, TYPICAL.
- 2. AT NEW SWALE, PLACE CLASS II CHANNEL LINING OVER FILTER FABRIC TO STABILIZE SWALE. SEE DETAIL H/L6.0 FOR HEADWALL OUTLET REQUIREMENTS, SIMILAR.
- 3. NEW 6" BUILDING SUBDRAIN / FOUNDATION DRAIN. REFER TO FOOTING DETAILS FOR REQUIREMENTS. CONNECT TO SOLID 8" HDPE STORM PIPE (4" PIPE MANUFACTURER'S STANDARD FITTINGS).
- 4. NEW DOWNSPOUT BOOT, SEE DETAIL F/L6.0, REFER TO ARCHITECTURAL DRAWINGS FOR ALL DOWNSPOUT LOCATIONS. CONNECT BOOTS TO NEW 8" HDPE STORM PIPE AND DAYLIGHT AS INDICATED.
- 5. NEW PIPE END SECTION, SEE DETAIL H/L6.0.
- 6. DETENTION AREA.

SITE GRADING & DRAINAGE PLAN

SCALE 1" = 10'-0"



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HENRY CLAY HIGH SCHOOL
FIELD HOUSE

PROJECT ADDRESS

SITE GRADING
PLAN

PROJECT NO.
January 13, 2023
REVISIONS



CIVIL SITE UTILITIES PLAN

SCALE 1" = 20'-0"



CIVIL UTILITY NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED BY CDP ENGINEERS. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS.
- C. UNLESS OTHERWISE INDICATED TO BE REMOVED, ALL ITEMS REMAINING WITHIN THE LIMIT OF CONTRACT ARE TO REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- D. THE CONTRACTOR SHALL MAINTAIN UTILITY SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD.
- E. REFER TO SPECIFICATION / PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- F. ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO MATCH PROPOSED FINISHED GRADES.
- G. FOR PROPOSED UTILITY STRUCTURES, INVERT ELEVATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED FOR EXISTING STRUCTURES. FIELD VERIFY ELEVATIONS PRIOR TO INSTALLATION OF UTILITY STRUCTURES.
- H. FOR PROPOSED UTILITY PIPE, PIPE LENGTHS & SLOPES ARE APPROXIMATE & SHOULD BE FIELD VERIFIED.
- I. PROVIDE THRUST BLOCKS AT ALL BENDS AND TEES IN WATER LINE. REFER TO DETAIL C/G2. ALL FITTINGS OR PRESSURIZED LINES TO BE M/DI UNLESS OTHERWISE NOTED.
- J. EXPLORATION TO CONFIRM EXISTING UTILITY LOCATIONS IS CONSIDERED INCIDENTAL.
- K. ALL ITEMS ON THIS SHEET REQUIRING POWER SHALL BE SUPPLIED POWER BY THE CONTRACTOR REGARDLESS OF THEIR INCLUSION IN MEP PORTION OF THE PLANS.
- L. CONTRACTOR SHALL COORDINATE ALL UTILITY CROSSINGS AND IDENTIFY POTENTIAL CONFLICTS PRIOR TO BEGINNING INSTALLATION OF UTILITIES. ALL UTILITY LINE CROSSINGS SHALL BE INSTALLED PER UTILITY LINE CROSSING DETAIL IN THESE DOCUMENTS.
- M. ANY EXISTING BRICK SANITARY OR STORM MANHOLES THAT ARE TO BE CONNECTED TO SHALL BE REPLACED WITH A PROPOSED CONCRETE MANHOLE.
- N. ALL EXISTING OR PROPOSED WATERLINES CROSSING SANITARY SEWER LINES SHALL BE ENCASED IN LOW STRENGTH CONCRETE FOR A DISTANCE OF 10 FEET ON EITHER SIDE.
- O. PRIOR TO INSTALLING BUILDING FOUNDATIONS, CONTRACTOR SHALL HAVE A LICENSED PLS SURVEY THE AS-BUILT LOCATIONS AND ELEVATIONS OF UTILITIES SERVING BUILDINGS TO VERIFY UTILITIES ARE INSTALLED PER DOCUMENTS. CONTRACTOR CAUSED VARIATIONS FROM DOCUMENTS WILL REQUIRE CORRECTION AT THE CONTRACTOR'S EXPENSE.

CIVIL UTILITY LEGEND

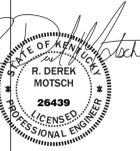
	PROPOSED SANITARY SEWER CLEANOUT-SEE MEP PLANS FOR CO AT BUILDING		PROPOSED POTABLE WATER LINE
	PROPOSED GRAVITY SANITARY SEWER PIPE		PROPOSED WATER VALVE

CIVIL UTILITY KEYNOTES: ①

1. NEW 1.5" DOMESTIC WATER TAP AT EXISTING WATER SERVICE. EXISTING LOCATION IS NOT CURRENTLY KNOWN BUT IS ASSUMED; HOWEVER EXISTING BASEBALL BUILDING HAS WATER SERVICE. CONTRACTOR SHALL INCLUDE EXPLORATION TO LOCATE EXISTING WATER LINE AND NOTE MATERIAL AND SIZE.
2. NEW 1.5" PVC SCHEDULE 40 DOMESTIC WATER LINE, SEE DETAILS ON C2.0. REFER TO MEP PLANS FOR LOCATION OF ENTRY TO BUILDING AND COORDINATE.
3. NEW 6" PVC SANITARY LINE, SLOPE AT MIN 1%, MAX 2% TO EXISTING SANITARY MANHOLE AND CONNECT TO EXISTING SANITARY MANHOLE IN ACCORDANCE WITH LFC&G ENGINEERING REQUIREMENTS. SEE ALSO DETAIL G/C2.0. FIELD VERIFY INVERT AT BUILDING CO AND THAT SANITARY LINE WILL CROSS OVER TOP OF EXISTING 10" HDPE STORM LINE. INSTALL UTILITY LINE CROSSING PER DETAIL F/C2.0.



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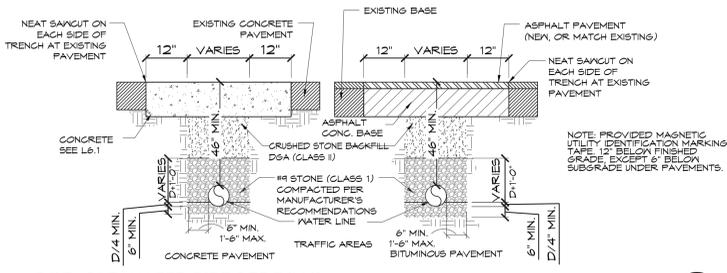
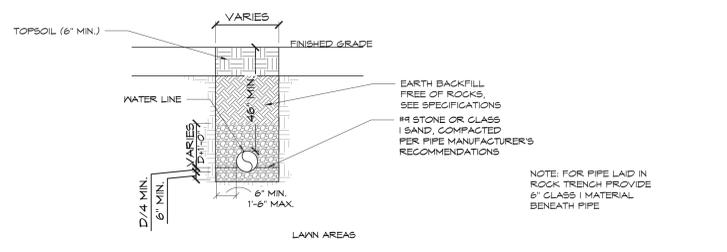
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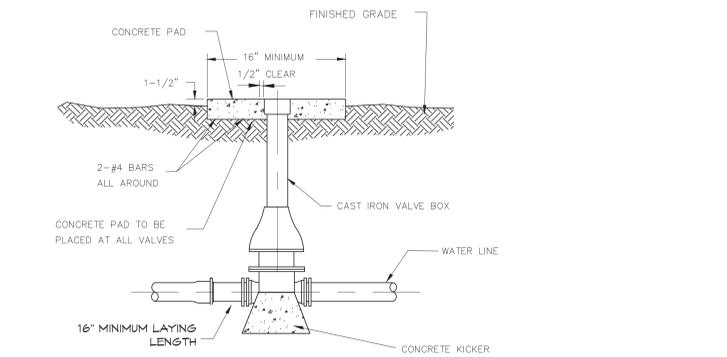
PROJECT ADDRESS

CIVIL SITE
UTILITIES PLAN

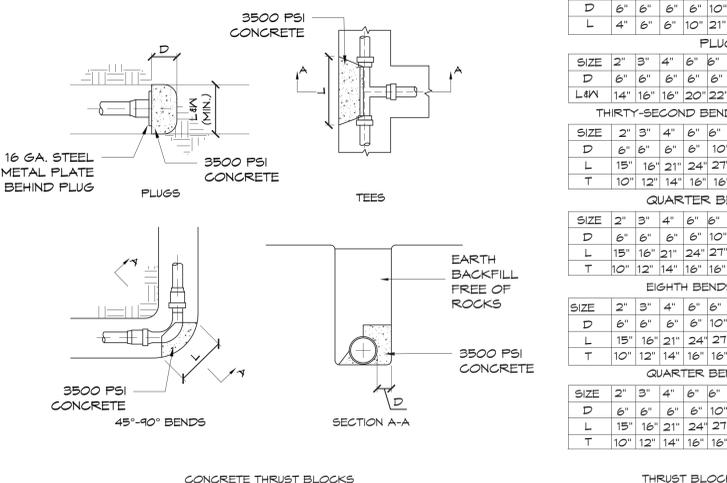
PROJECT NO.
January 16, 2023
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POTABLE WATER PIPE BEDDING
N.T.S. (A)



TYPICAL VALVE SETTING DETAIL
N.T.S. (B)



TYPICAL THRUST BLOCKING DETAIL
N.T.S. (C)

PLUGS

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	10"	10"	12"	14"	16"	16"	20"
L	4"	6"	6"	10"	21"	30"	36"	42"	46"	54"	60"

PLUGS

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	6"	6"	6"	12"	24"	26"	32"
L4x4	14"	16"	16"	20"	22"	24"	24"	24"	30"	30"	36"

THIRTY-SECOND BENDS (11-1/4")

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	10"	10"	12"	14"	16"	16"	20"
L	15"	16"	21"	24"	27"	30"	34"	34"	36"	39"	42"
T	10"	12"	14"	16"	16"	20"	22"	25"	29"	30"	36"

QUARTER BENDS (90°)

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	10"	10"	12"	12"	16"	16"	20"
L	15"	16"	21"	24"	27"	30"	34"	34"	36"	39"	42"
T	10"	12"	14"	16"	16"	20"	22"	25"	29"	30"	36"

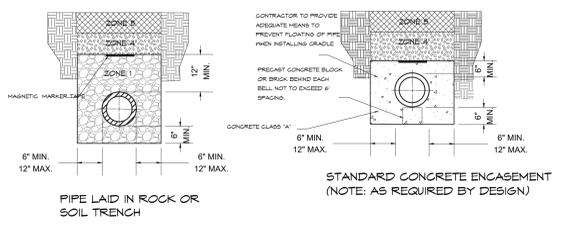
EIGHTH BENDS (45°)

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	10"	10"	12"	12"	16"	16"	20"
L	15"	16"	21"	24"	27"	30"	34"	34"	36"	39"	42"
T	10"	12"	14"	16"	16"	20"	22"	25"	29"	30"	36"

QUARTER BENDS (90°)

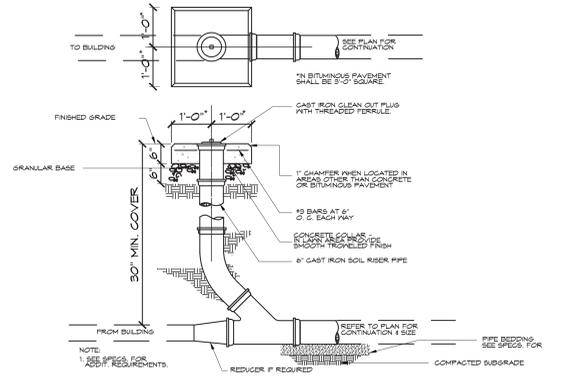
SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
D	6"	6"	6"	6"	10"	10"	12"	12"	16"	16"	20"
L	15"	16"	21"	24"	27"	30"	34"	34"	44"	45"	53"
T	10"	12"	14"	16"	16"	20"	22"	25"	29"	30"	36"

THRUST BLOCK SCHEDULE
NOTE: ALL FITTINGS TO BE RETAINED DIMJ UNLESS OTHERWISE NOTED.

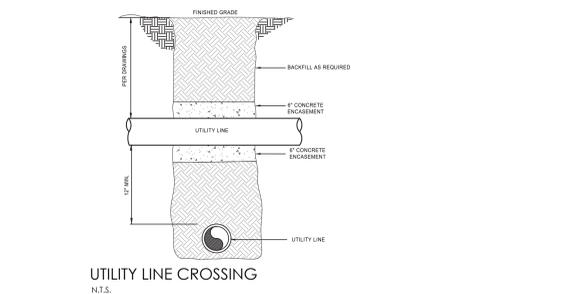


- PIPE BACKFILL DESCRIPTIONS**
- ZONE 1: 12\"/>
- NOTES**
- COVER, UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
 - ALL SANITARY SEWER LINES CONSTRUCTED FROM NON-METALLIC MATERIALS SHALL HAVE MAGNETIC MARKER TAPE INSTALLED IN THE TRENCH ABOVE THE SANITARY SEWER LINE.
 - MAGNETIC MARKER TAPE FOR SANITARY SEWER ONLY.

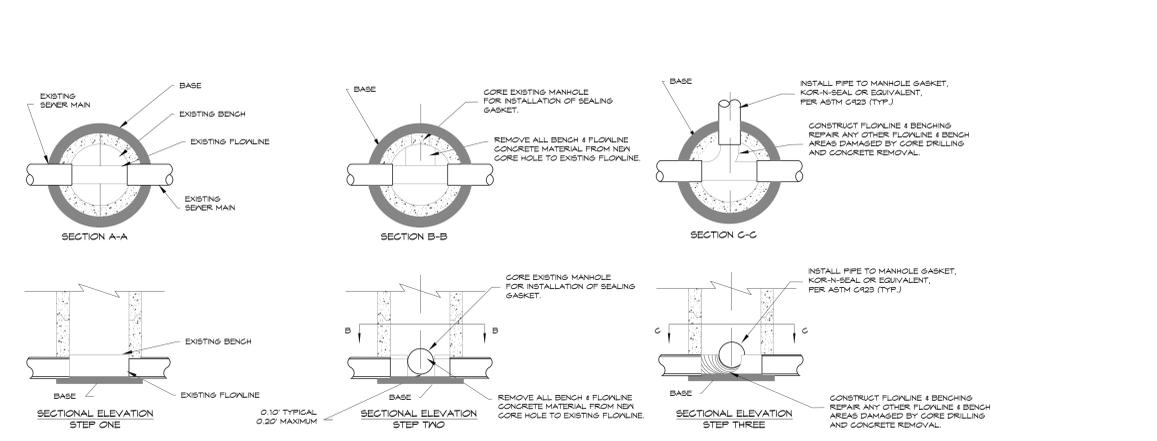
SANITARY SEWER PIPE BEDDING IN ROCK OR SOIL
N.T.S. (D)



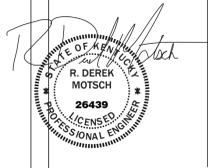
SANITARY SEWER CLEANOUT DETAIL
N.T.S. (E)



UTILITY LINE CROSSING
N.T.S. (F)



CONNECTION TO EXISTING MANHOLE DETAIL
N.T.S. (G)



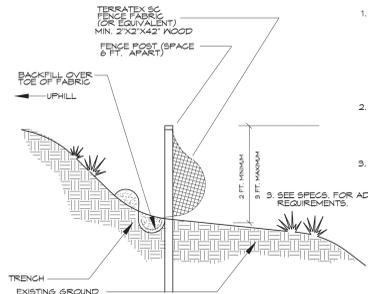
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FIELD HOUSE

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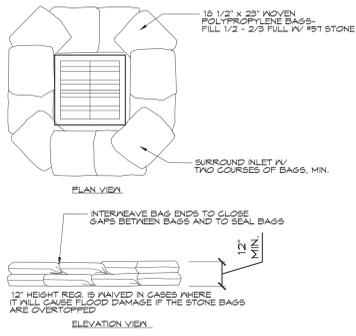
SITE GRADING
PLAN

PROJECT NO.
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- NOTE:
1. EXCAVATE SMALL TRENCH, ATTACH WIRE FENCING AND FILTER FABRIC. SO BOTTOM OF FABRIC CAN BE BURIED AT LEAST 6" IN THE GROUND. BACKFILL EXCAVATED SOIL OVER FABRIC & COMPACT. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF THE FENCE.
 2. STEEL SILT FENCE POSTS AT 50' C. MAY BE USED INSTEAD OF THE 3/4" POSTS. STEEL POSTS ARE TO BE DRIVEN AT LEAST 2' INTO THE GROUND.
 3. SILT FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH LUFGS STORMWATER MANUAL FIGURE 11-21
3. SEE SPECS. FOR ADDITIONAL REQUIREMENTS.

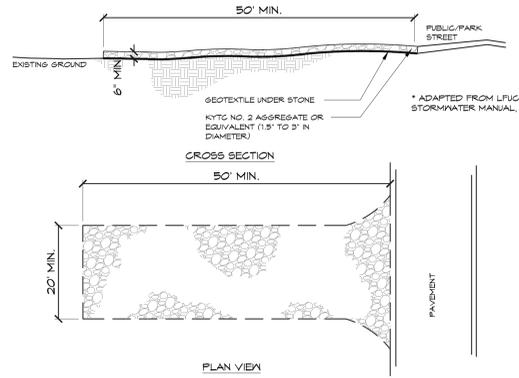
TEMPORARY SILT FENCE
N.T.S. (A)



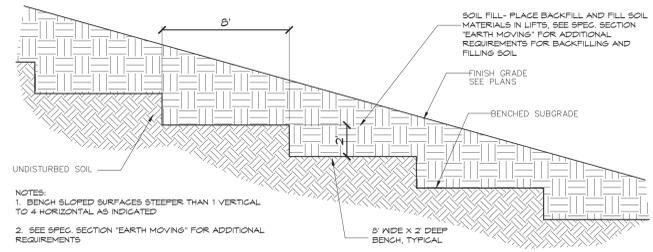
- NOTES:
- INSTALLATION:
STONE FILL BAGS SHALL BE MOVEN POLYPROPYLENE BAGS WITH APPROXIMATE DIMENSION 10\"/>

INSPECTION & MAINTENANCE:
INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT EXCEEDS 1/2\"/>

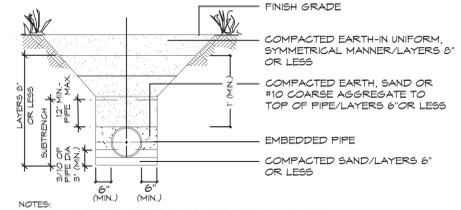
TEMPORARY INLET PROTECTION
N.T.S. (B)



CONSTRUCTION ENTRANCE DETAIL
N.T.S. (C)

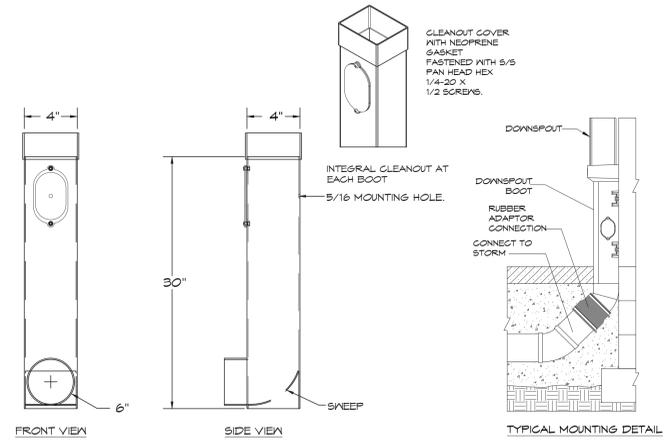


BENCHED FILL @ STEEP SLOPES, TYPICAL
N.T.S. (D)

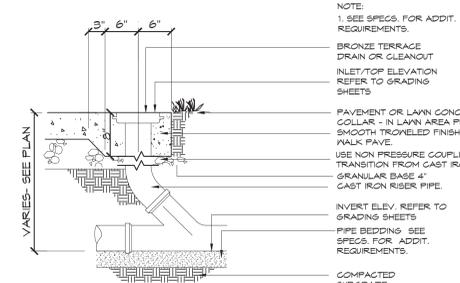


- NOTES:
1. TRENCH WALLS MAY BE CONSTRUCTED SLOPED (AS SHOWN) OR VERTICAL. IN BOTH CASES, TRENCH WALLS SHALL REMAIN SYMMETRICAL ABOUT PIPE CENTERLINE.
 2. TO BED PIPE IN SAND, EXCAVATE A GROOVE IN THE COMPACTED SAND TO CONFORM TO THE OUTSIDE OF THE PIPE. AFTER THE EXCAVATION, APPROX. 3\"/>

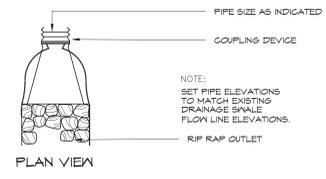
TYPICAL BEDDING FOR STORM PIPE
N.T.S. (E)



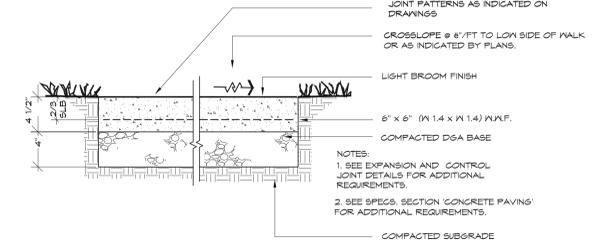
CARBON STEEL DOWNSPOUT BOOT
N.T.S. (F)



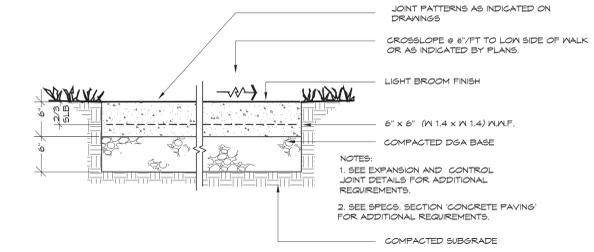
TERRACE DRAIN OR CLEANOUT
N.T.S. (G)



TYPICAL PIPE END SECTION OUTLET
N.T.S. (H)



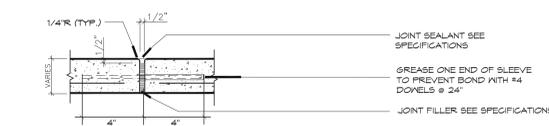
LIGHT DUTY CONCRETE PAVEMENT
N.T.S. (I)



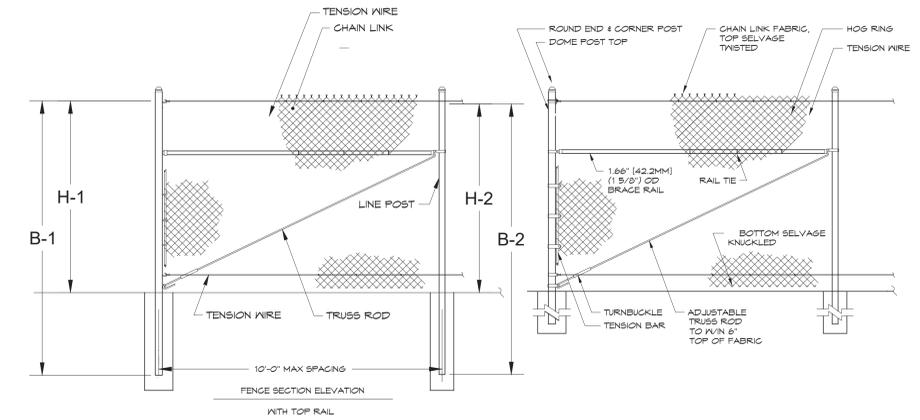
HEAVY DUTY CONCRETE PAVEMENT
N.T.S. (J)



TOOLED CONTROL JOINT
N.T.S. (K)



EXPANSION JOINT AT CONC. PAVEMENT
N.T.S. (L)



FENCE HEIGHT NOM HT	UPRIGHT END & CORNER POSTS		LINE POSTS	
	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
5'-0" [1524MM]	11'-0" [3353MM]	5'-0" 5/8" [1548MM]	4'-8" [1448MM]	6'-5" 7/8" [2024MM]

- NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. FINAL FOOTING DEPTH AND WIDTH PER MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR GIVEN FENCE HEIGHT.
 3. EXTEND FABRIC TO FINISH GRADE TO MATCH EXISTING FENCING.
 4. ALL WIRE FABRIC AND FENCE HARDWARE SHALL BE GALVANIZED STEEL.
 5. INTENT IS TO MATCH THE EXISTING FENCING. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN DETAILS AND EXISTING FENCING, BUT SHALL PROVIDE FENCING TO MATCH.

BLACK VINYL COATED CHAIN LINK FENCE
N.T.S. (M)



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FIELD HOUSE

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PROJECT NO.
January 13, 2023
REVISIONS

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

THE NEW STRUCTURE TO BE CONSTRUCTED IS ASSIGNED BY THE KENTUCKY BUILDING CODE, 2018 EDITION, TO SEISMIC USE GROUP AND SEISMIC DESIGN AS SPECIFIED, AS SUCH, THE BUILDING CODE MANDATES SPECIAL INSPECTION (SECTION 1704), SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11), SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SECTION 1705.12), STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE (SECTION 1704.6.1) AND STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS (SECTION 1704.2). STRUCTURAL QUALITY ASSURANCE PLAN SPECIFICALLY IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE REQUIRED TESTING AND INSPECTION OF THE STRUCTURAL WORK.

CONTRACTOR RESPONSIBILITIES

In accordance with Section 1704.4 of the Building Code, the Contractor shall submit to the Building Official and the Architect a written statement of responsibility that contains the following:

- Acknowledgement of awareness of the special requirements contained within this Structural Quality Assurance Plan.
- Acknowledgement that control shall be exercised to obtain conformance with the construction documents approved by the Building Official.
- Procedures for exercising control with the Contractor's organization, the method and frequency of reporting, and the distribution of reports.
- Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

The Structural Testing / Inspection Agency that is to act as the Special Inspector will be hired by the Owner.

Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.

The Contractor is responsible to ensure that the Special Inspector is present for all work requiring special inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.

The Contractor has the following responsibilities to the Special Inspector:

- Provide copy of Construction Documents to the Special Inspector.
- Notify the Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- Cooperate with Special Inspector and provide access to work.
- Provide samples of materials to be tested in required quantities.
- Provide storage space for the Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
- Provide labor to assist the Special Inspector in performing tests/inspections.

SPECIAL INSPECTOR RESPONSIBILITIES

The Special Inspector shall maintain records of inspections in accordance with Section 1704.2.4 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.

SOILS

The Special Inspector shall perform the following:

- Verify structural fill complies with specifications and the geotechnical report
- Observer proofrolling.
- Perform field density tests to verify compaction of structural fill. As a minimum, perform one test per lift for every 2500 square feet of fill placed.

LIGHT-GAGE METAL FRAMING

The Contractor shall perform the following:

- Trusses shall be manufactured and designed in accordance with the North American specifications for the design of cold-formed steel structural members AISI S100. Submit letter of compliance and calculations.
- Submit shop drawings signed and sealed by KY P.E.

The Special Inspector shall perform periodic inspections of the following:

- Visual inspection of ALL bearings and connections.
- Verify installation of bridging or braces.
- Verify connection for top and bottom chords.
- Verify reinforcement of members for concentrated loads.
- Verify proper bearing.
- Check all framing layout and confirm compliance with plans, specs, and shop drawings.
- Visually inspect truss layout and anchorage and confirm compliance with plans, specs, and shop drawings.
- Visually inspect all roof and wall sheathing attachments and confirm compliance with plans, specs, and shop drawings.

CAST-IN-PLACE CONCRETE

The Contractor shall perform the following:

- Establish concrete mix design proportions per ACI 318, Chapter 5. Submit 5 copies (minimum) of the concrete mix designs. Include the following:
 - Type and quantities of materials
 - Slump
 - Air content
 - Fresh unit weight
 - Aggregates sieve analysis
 - Design compressive strength
 - Location of placement in structure
 - Method of placement
 - Method of curing
 - Seven-day and 28-day compressive strengths
- Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the specified ASTM and ACI standards.
- Submit certification that the ready-mixed concrete plant complies with the requirements of the National Ready Mix Concrete Association.

The Special Inspector shall perform the following:

- Verify quantity, location, and placement of reinforcing steel prior to concrete placement.
- Examine concrete in truck to verify that concrete appears properly mixed.
- Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
- Mold four specimens per set for compressive strength testing; one set for every 50 cubic yards (or portion thereof) of each mix design in any one day. For each set set molded, record:
 - Slump
 - Air content
 - Unit weight
 - Temperature, ambient and concrete
 - Location of placement
 - Any pertinent information, such as addition of water, addition of admixtures, etc.
- Perform one 7-day and two 28-day compressive strength tests. (Use one as a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.)
- Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.

NON-SHRINK GROUT UNDER STEEL BASE PLATES

The Special Inspector shall perform the following:

- Compressive strength tests per ASTM C109.
- Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting.
- Cube Size: 2-inch x 2-inch.
- Test Schedule: One cube at 3 days, two cubes at 7 days, three cubes at 28 days.

CONCRETE MASONRY

Contractor shall perform the following:

- Submit a certification from each manufacturer or supplier stating that the following materials comply with the specified ASTM or ACI Standards:
 - Concrete masonry units.
 - Mortar materials: Portland cement, hydrated lime, and aggregates.
 - Grout materials: Portland cement and aggregates.
 - Joint reinforcement steel.
 - Reinforcing steel.
- For reinforcing steel used in concrete masonry walls, submit certified mill test reports.

Special Inspector shall perform the following:

- Verify compressive strength of concrete masonry units, mortar, and coarse grout for every 5,000 sq. ft. of surface area (or portion thereof) as follows:
 - Three (3) concrete masonry units shall be tested in accordance with ASTM C140.
 - Six (6) mortar cube specimens shall be tested, three (3) at 7-days and three (3) at 28-days, in accordance with ASTM C-109.
 - Four (4) coarse grout specimens shall be tested, two (2) at 7-days and two (2) at 28-days, in accordance with ASTM C-109.
 - In lieu of individual tests of masonry units, mortar, and grout, perform one (1) prism test (which consists of three prisms) in accordance with ASTM E447.
- Provide continuous inspection to verify compliance of the following:
 - Cleanliness of grout space prior to grouting.
 - Placement of grout in reinforced cells.
 - Preparation of required grout and mortar specimens.
 - Welding of reinforcing bars.
- Provide periodic inspection to verify compliance of the following:
 - Proportions of site-prepared mortar or grout.
 - Construction of mortar joints.
 - Quantity, size, location, and support of reinforcing steel.
 - Quantity, size, and placement of horizontal joint reinforcement.
 - Type, size and location of anchors.
 - Protection of masonry during cold or hot weather.

STRUCTURAL STEEL

The Contractor shall perform the following:

- The steel fabricator shall be AISC or AWS Certified, refer to Spec. 05120.
- Submit certified mill test reports for structural steel.
 - Type and quantities of materials
 - Slump
 - Air content
 - Fresh unit weight
 - Aggregates sieve analysis
 - Design compressive strength
 - Location of placement in structure
 - Method of placement
 - Method of curing
 - Seven-day and 28-day compressive strengths
- Submit manufacturer's certificate of compliance fro high-strength bolting and weld filler materials.

** If the fabricator is not certified, then the fabricator shall reimburse the owner for the costs of these tests.

The Special Inspector shall perform the following:

- Provide continuous inspection to verify compliance of the following:
 - Inspection of slip-critical connections, except periodic inspection may be performed when using torque control bolts (twist off).
 - Complete and partial penetration groove welds. Ultrasonically inspect 100% of the complete penetration welds.
 - Multi-pass fillet welds and single-pass fillet welds greater than 5/16".
- Provide periodic inspection to verify compliance of the following:
 - Material verification of high-strength bolts, nuts, and washers.
 - Material verification of structural steel.
 - Material verification of weld filler material.
 - Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
 - Visually inspect all field-welded connection. Visual inspection of welded joints includes periodic examination of fltip.
 - Verify stud shear connector spacing and location. Visually inspect welding of stud shear connectors.
- Weld Inspections
 - Weld inspections shall be in accordance with AWS D1.1.
 - Review and verify compliance of written welding procedures with AWS requirements.
 - Verify that welding procedures are being adhered to during field welding.
 - Verify welder qualifications.
 - Use all means necessary to determine the quality of welds. The inspector may use gamma ray, magnificz, inspecting, sonics or any other aid to visual inspection that the Special Inspector may deem necessary to be assured of the adequacy of the welding.
 - Keep a systematic record of all welds that include, in addition to other required records, the identification marks of welders, a list of defective welds, and the manner of correcting defects.
- Bolting inspection and testing shall be in accordance with AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts.

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED?		REMARKS
		YES	NO	
1704.2.5	FABRICATORS	X	---	STEEL FABRICATION SPECIAL INSPECTION IS REQUIRED IF THE FABRICATOR IS NOT A I.S.C. OR AWS CERTIFIED & LIGHT GA. METAL TRUSSES
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	---	X	SEISMIC DESIGN CATEGORY "C"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	---	X	Vasd = 89mph.
1705.2	STEEL	X	---	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	X	---	PER TABLE 1705.3
1705.4	MASONRY	X	---	LEVEL B TMS 402/ACI 530/ASCE 5 FOR MASONRY BRG. WALL FOUNDATIONS MEET EXCEPTION
1705.5	WOOD	---	X	PER SECTION 1705.5
1705.6	SOILS	X	---	PER SECTION 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	---	X	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS	---	X	NONE
1705.9	HELICAL PILE FOUNDATIONS	---	X	NONE
1705.11.1	WIND - STRUCTURAL WOOD	---	X	Vasd OF 89MPH
1705.11.2	WIND - COLD FORMED STEEL FRAMING	---	X	Vasd OF 89MPH
1705.11.3	WIND - WIND RESISTING COMPONENTS	---	X	Vasd OF 89MPH
1705.12.1	SEISMIC - STRUCTURAL STEEL	---	X	SEISMIC DESIGN CATEGORY "C"
1705.12.2	SEISMIC - STRUCTURAL WOOD	---	X	NONE
1705.12.3	SEISMIC - COLD FORMED STEEL FRAMING	---	X	NONE
1705.12.4	DESIGNATED SEISMIC SYSTEMS	---	X	SEISMIC CATEGORY "B"
1705.12.5	SEISMIC - ARCHITECTURAL COMPONENTS - INTERIOR/EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES	---	X	SEISMIC DESIGN CATEGORY "C"
1705.12.6	SEISMIC - MECHANICAL AND ELECTRICAL COMPONENTS	---	X	SEISMIC DESIGN CATEGORY "C"
1705.12.7	SEISMIC - STORAGE RACKS AND ACCESS FLOORS	---	X	NONE
1705.14	SPRAYED FIREPROOFING	---	X	NONE
1705.15	MASTIC & INTUMESCENT FIREPROOFING	---	X	NONE
1705.16	E.I.F.S.	---	X	NONE
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	---	X	RISK CATEGORY II, NON-HIGH RISK
1705.18	SMOKE CONTROL	---	X	NONE

EARTHQUAKE DESIGN DATA

RISK CATEGORY	II
IMPORTANCE FACTOR	1.0
S ₁	0.196
S ₁	0.092
SITE CLASS	C
S _{0.5}	0.209
S _{0.1}	0.147
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC-FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR	0.0418 x W (kips)
SEISMIC RESPONSE COEFFICIENT (C _s)	0.0418
RESPONSE MODIFICATION FACTOR	2
ANALYSIS PROCEDURE	ELFP

SNOW DESIGN DATA

GROUND SNOW LOAD (P _g)	15 PSF
MINIMUM SLOPED ROOF SNOW LOAD (P _l)	15 PSF
FLAT ROOF SNOW LOAD (P _l)	10.4 PSF
IMPORTANCE FACTOR	1.0
THERMAL FACTOR (C _t)	1.1
SNOW EXPOSURE FACTOR (C _e)	0.9

DESIGN LIVE LOADS

ROOF	20 PSF
------	--------

WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (Vult)	115 MPH	
NOMINAL WIND SPEED (Vasd)	89 MPH	
RISK CATEGORY	II	
WIND PRESSURE CATEGORY	B	
INTERNAL PRESSURE COEFFICIENT	+/- 0.18	
COMPONENTS AND CLADDING (H<30 FT)		
	EXPOSURE B	EXPOSURE C
	(PSF)	(PSF)
ROOF 0 TO 7 DEGREES	9.7 -23.8	13.5 -33.3
INTERIOR ZONE	9.7 -39.9	13.5 -55.8
END ZONE	9.7 -60.1	13.5 -84.1
CORNER ZONE		
ROOF >7 TO 27 DEGREES		
INTERIOR ZONE	13.7 -21.8	19.1 -30.5
END ZONE	13.7 -37.9	19.1 -50.0
CORNER ZONE	13.7 -66.0	19.1 -78.4
ROOF >27 TO 45 DEGREES		
INTERIOR ZONE	21.8 -23.8	30.5 -33.3
END ZONE	21.8 -27.8	30.5 -38.9
CORNER ZONE	21.8 -27.8	30.5 -38.9
WALLS		
INTERIOR ZONE	23.8 -25.8	25.9 -28.1
END ZONE	23.8 -31.9	25.9 -34.7

NOTE: NEGATIVE NUMBERS INDICATE A SUCTION/UPLIFT PRESSURE



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1.16.23

PROJECT NAME

HENRY CLAY HS
SOFTBALL FIELD
HOUSE

PROJECT ADDRESS

2100 Fontaine Rd, Lexington, KY
40502

SHEET NAME

STRUCTURAL NOTES

PROJECT NO.

22258

DATE

1/16/2023

REVISIONS

NO.	DESCRIPTION	DATE
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SHEET NUMBER

S0.0



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GENERAL

- Reference to standards or specifications of technical societies, organizations, or associations, or to codes of local/state authorities, means the latest standard, specification, or code adopted by the date shown on the Drawings, unless specifically noted otherwise.
- Material, workmanship, and design shall conform to the referenced Building Code.
- For dimensions not shown in the Structural Drawings, see the Architectural Drawings.
- Contractor responsibilities include, but are not limited to, the following:
 - Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission.
 - The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
 - Contractor has sole responsibility for job site safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the job site, for the Contractor's means, methods, sequences, techniques, or procedures in performing the work.
- Contractor shall field verify all existing conditions, elevations, and site conditions prior to construction and fabrication. Contractor shall immediately notify Structural Engineer of any existing conditions that are in conflict with the Structural Documents.

CONCRETE

- All concrete shall conform and be designed, mixed, placed, tested, and cured in accordance with the provisions of the ACI Manual of Concrete Practice, (current edition). Special care shall be taken in curing floors, stairs, walls, and other exposed surfaces in accordance with the specifications.
 - All concrete shall develop 3,500 PSI compressive strength in 28 days.
 - Dropping the concrete in excess of 10 feet, depositing in a large quantity at any point and running or working it along the forms, or any method tending to cause segregation or separation of the aggregates will not be permitted.
- REINFORCEMENT STEEL
- Reinforcement steel shall have a minimum yield strength of 60,000 PSI and conform with material specifications for reinforcing bars, ASTM A615 thru A617; see manual of standard practice, Concrete Reinforcing Steel Institute.
 - Welded wire fabric shall conform to ASTM A185.
 - All rebars shall be securely tied and held in place with a minimum concrete protection cover to all steel as follows:

Walls, Columns, Beams, and Pilasters	1 1/2"
Slabs	3/4"
Footings	3"
 - Reinforcing steel bends shall be made as per diagram, and/or in accordance with A.C.I. Code.
 - Lap all splices as specifically called for, but at least 38 bar diameters for bars less than or equal to #6, and 48 bar diameters, for bars greater than #6, (always 12 in. minimum) unless noted otherwise. Lap all splices in masonry reinforcement a minimum of 48 bar diameters.

FOUNDATION DESIGN

- Foundations were designed using a maximum earth bearing pressure of 1,500 PSF, this shall be confirmed by licensed geotechnical engineer.

SHALLOW FOUNDATIONS ON SOIL

- Any soils can lose strength if they become wet, so the foundation sub grades must be protected from exposure to water. Foundation construction the following procedures:
 - For soils that will remain exposed overnight or for an extended period of time, place a "lean" concrete mud-mat over the bearing areas. The concrete should be at least 4 inches thick. Flowable fill concrete or low-strength concrete is suitable for this cover, as conditions allow.
 - Disturbed soil must be removed prior to foundation concrete placement.
 - Foundation bearing conditions must be benched level.
 - Areas loosened by excavation operations must be recompactd prior to reinforcing steel placement.
 - Loose soil, debris, and excess surface water must be removed from the bearing surface prior to concrete placement.
 - The Special Inspector shall observe all foundation excavations and provide recommendations for treatment of any unsuitable conditions encountered.
 - The bearing conditions of foundation soils (stiff or better residual soil) shall be checked by means of portable dynamic cone penetration (DCP) testing at the direction of the special inspector.

GRADE SUPPORTED FLOOR SLABS

- The following features are required as part of grade support slab construction:
 - Keep the crushed stone moist, but not wet, immediately prior to slab concrete placement to minimize curing of the slab due to differential curing conditions between the top and bottom of the slab.
 - The Special Inspector shall review the actual subgrade conditions prior to slab construction and to make recommendations for any unsuitable conditions encountered.
 - Slab subgrade conditions are also considered earthwork areas; thus, the recommendations contained in the Earthwork section of the report apply.

SUBMITTALS

- Shop Drawings and Submittals
 - Reproduction of Structural Drawings for shop drawings is not permitted.
 - Electronic drawing files will not be provided to the Contractor
 - Review of shop drawings will be for conformance with the Construction Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Construction Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Construction Documents.
- Submittals
 - The Structural Quality Assurance Plan and Specifications identify the required submittals. Prior to (or with) the first submittal, Contractor shall submit a list of all required submittals for Engineer's review.
- Deferred Submittals
 - Deferred Submittals include those portions of the project that are furnished by the Contractor and designed by someone other than the Engineer of Record and are submitted at the time of the application. Deferred Submittals shall be submitted to the Building Official prior to fabrication and installation.
 - Submittal documents for Deferred Submittals:
 - 3.2.1 Shall be included in the Contractor's scope of services and shall be sealed by an Engineer licensed in the project state. Design of Deferred Submittals shall be in accordance with the governing Building Code indicated above.
 - 3.2.2 Shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the Building Official with a notation indicating the deferred submittal documents have been reviewed and that they have been found in general conformance with the design of the building. Deferred submittal items shall not be installed until the design and submittal documents have been approved by the Building Official.
 - The following shall be considered Deferred Submittals:
 - Precast Slab Units

STRUCTURAL STEEL

- Steel Shapes
 - W-Shapes: ASTM A992 (Grade 50)
 - Angles, Channels, Plates, UNO: ASTM A36
 - Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B
 - Structural steel exposed to weather shall be galvanized.
- Anchor Rods, Bolts, and Studs
 - Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.
 - All bolts for structural steel joint fasteners shall be 3/4"Ø high strength structural bolts, ASTM A325, Torque Control (Tension Set), unless otherwise noted.
 - Post-Installed Anchors: The procedure listed below are the design basis for these projects. Installation of expansion anchors shall be in accordance with the ICC-ES report and manufacturer's instructions for the particular anchor.
 - Expansion Anchors: Hilti Kwik Bolt TZ (ICC-ES ESR-1917), Simpson Strong-Bolt 2 (ICC-ES ESR-3037), or Power-Stud+ SD2 (ICC_ES ESR-2502). Minimum embedment = 6 times anchor diameter, UNO.
- Adhesive Anchors
 - All-thread steel anchor conforming to ASTM A307, Grade A or ASTM A36, zinc plated in accordance with ASTM B633.
 - Adhesive conforming to Hilti Hilti RE 500 SD (ICC-ES AC308), Simpson SET+XP Epoxy-Tie (ICC-ES ESR-2508), or Powers PE1000+ Adhesive (ICC-ES ESR-2583), or Powers AC100+ Gold Adhesive (ICC_ES ESR-2592). Minimum embedment = 5 times anchor diameter, UNO.
 - For hollow concrete masonry, use screen tube approved by manufacturer and an adhesive conforming to Simpson Strong-Tie SET (ICC-ES ESR-1772).
 - Screw Anchors: Simpson Titan-HD (Concrete: ICC-ES ESR-2713; Grouted Masonry: ICC-ES ESR-1056) or Powers Wedge-Bolt+ (ICC-ES ESR-2526). Minimum Embedment = 6 times anchor diameter, UNO.
 - Substitutions will only be considered for products have a code report recognizing the product for the appropriate application. The substitution request shall be accompanied by calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design-basis product.
- Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated March 9, 2005 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated March 19, 2005.
- Connections shall be detailed based on the design information provided in the Structural Documents.
 - Standard Shear Connections: Details as bolted or welded double-angle, sible-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Thirteenth Edition.
 - 1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.
 - Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFSD)" tabulated in the "Manual of Steel Construction", Thirteenth Edition.
 - Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.
- Shop Drawings: Submittal shall adequately depict structural members and connections.
- All structural steel shall be fabricated and erected in accordance with the latest OSHA regulations regarding steel erection.

CONCRETE MASONRY

- CMU Minimum Compressive Strength, F'm = 1,500 psi.
- Mortar/Walls below grade Type M

Bearing Walls	Type M or S
---------------	-------------
- Coarse Grout: 3,000 psi. min. compressive strength conforming to ASTM C476.
 - Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.
 - Masonry webs on each side of grouted cells shall be fully mortared.
- Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, UNO. Provide accessories for corners, intersections, etc.
- Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.
- CMU has been designed assuming "running bond" placement. Do no use "stack bond" unless approved by Structural Engineer.
- Submit written construction procedures prior to the start of masonry construction.
- No chases, risers, conduits, or toothing of masonry shall occur in masonry walls within 18 inches of beam bearing centerline.
- Lap splices in reinforcing to be 48 bar diameters.
- In addition to spacing indicated on plans, provide vertical bars at all corners, ends, jambs, intersections and both sides of control joints.
- Extend all vertical reinforcement thru or into bond beams.
- Provide dowels from supporting member (footing, beam, or slab) for all reinforced walls same size, location and spacing as wall reinforcing.
- Vertical reinforcement shall be centered in cells of masonry unit, unless otherwise noted.
- Bar positioners shall be used to hold vertical and bond beam reinforcement in proper alignment.
- Vertical bars shall be held in position at top and bottom and at intervals not exceeding 200 bars diameters or 8 feet
- Grouting of masonry lintels over openings shall be accomplished in one continuous operation.
- Grouting shall be stopped 1 1/2" below the top of a course to form a key at the pour joint.
- Grout all cells of concrete masonry units below grade or slab.
- Provide cleanout holes at least 3 inches in least dimension for grout pours over 5 feet in height.
 - At structurally reinforced walls provide cleanout holes at each structural vertical reinforcing bar.
 - Cleanout closures shall be braced to resist grout pressures
- See architectural drawings for locations of vertical control joints.
- At vertical control joints, bond beam reinforcement and joint reinforcement shall be discontinuous. Provide two 3/4" diameter smooth dowels by 1'-4" across each control joint. Grease one end.
- Special Inspections are required for the masonry construction on this project. The inspections include but are not limited to contiuous inspections during the grouting process. Refer to Chapter 17 of the Kentucky Building Code, current edition, for specific requirements.

NOTE TO CONTRACTOR:

The contractor shall coordinate the Structural Drawings with the Architectural, Mechanical, and Electrical Drawings and make certain all pipes, sleeves, ducts, insents, and openings are located and in place before each concrete pour.

The Contractor shall verify all dimensions shown on the Structural Drawings with dimensions shown on the Architectural Drawings. The Contractor shall check and approve, with reasonable promptness, shop drawings and schedules for coordination of details, sizes, fitting tolerances, and dimensions. The Contractor shall stamp or sign these drawings and schedules with his approval and then submit them to the Architect for review.

PROJECT NAME

**HENRY CLAY HS
SOFTBALL FIELD
HOUSE**

PROJECT ADDRESS

2100 Fontaine Rd, Lexington, KY
40502

SHEET NAME

STRUCTURAL NOTES

PROJECT NO.

22258

DATE

1/16/2023

REVISIONS

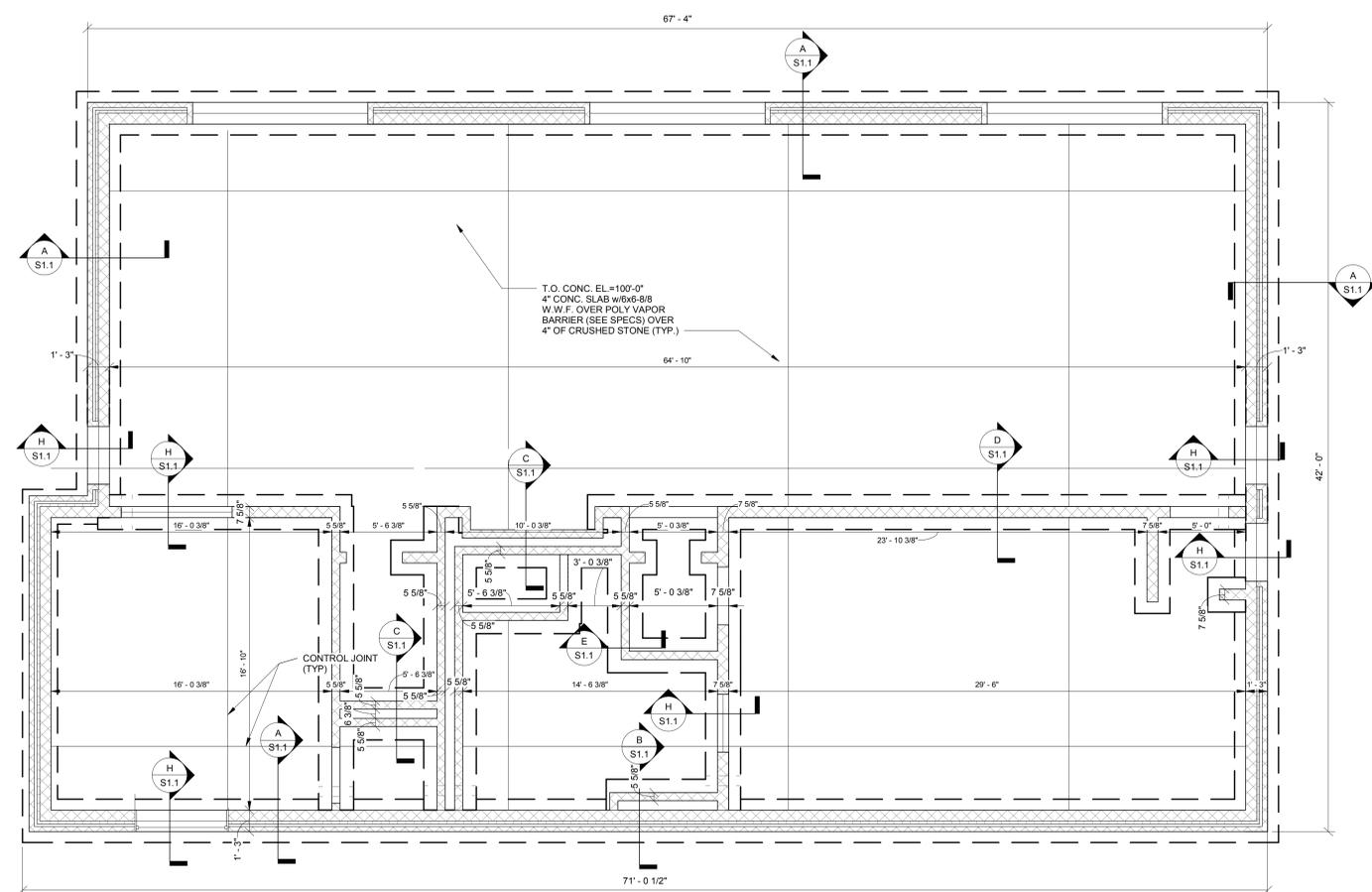
NO.	DESCRIPTION	DATE

SHEET NUMBER

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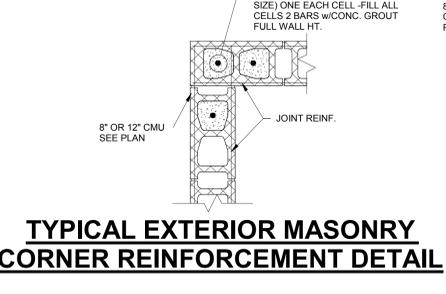
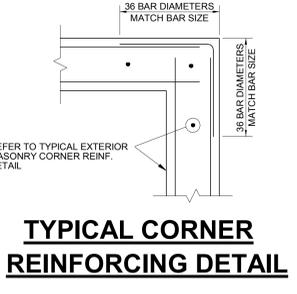
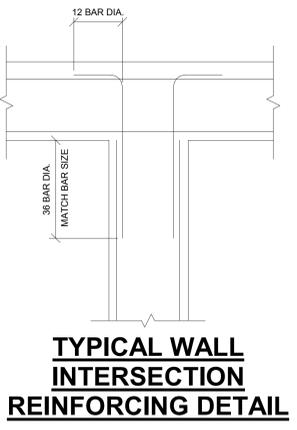
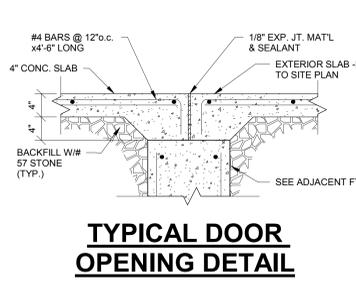
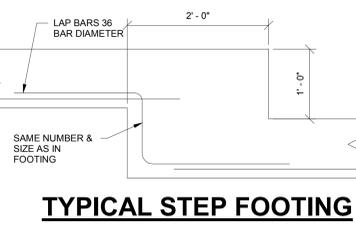
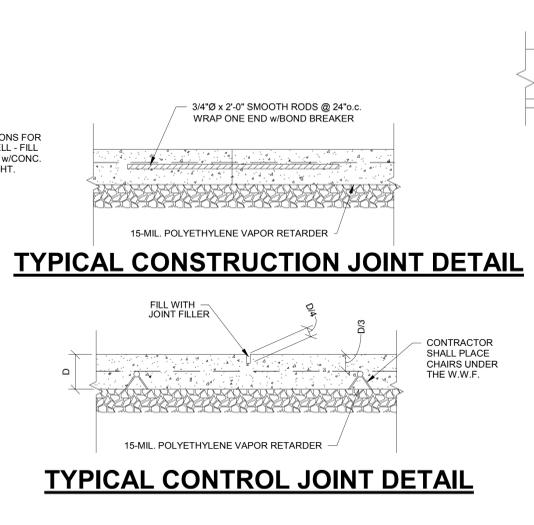
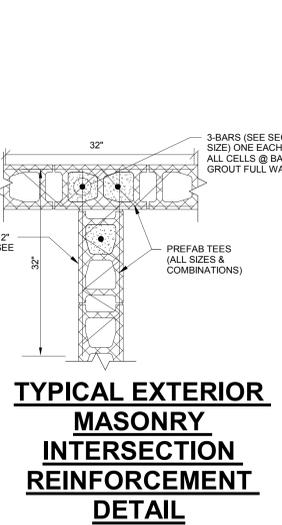
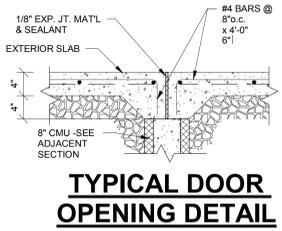
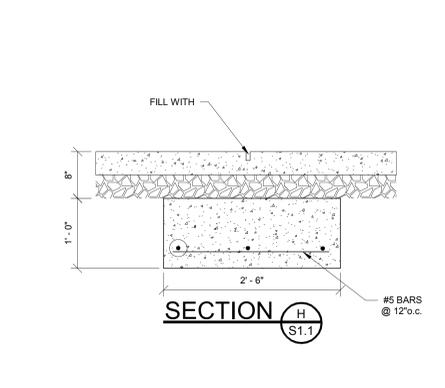
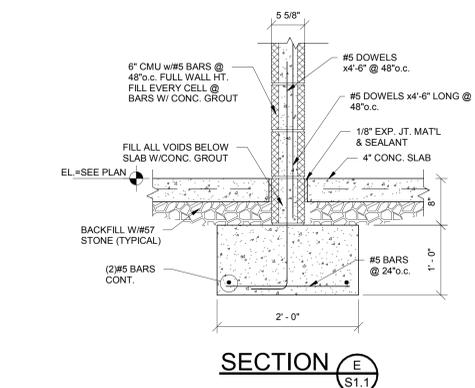
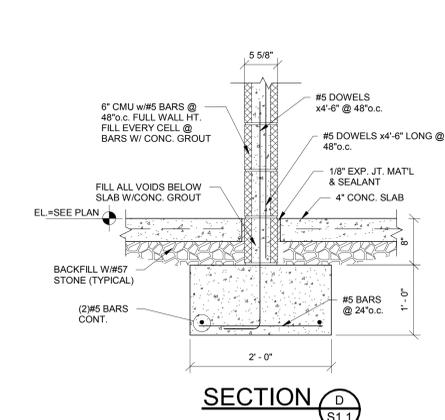
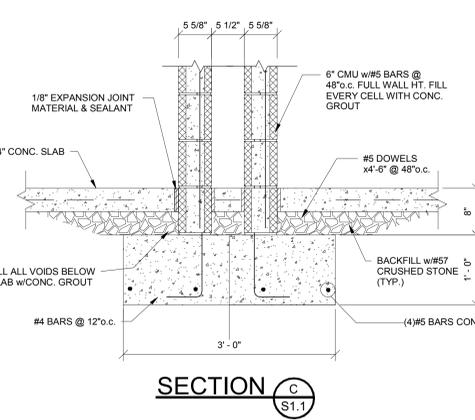
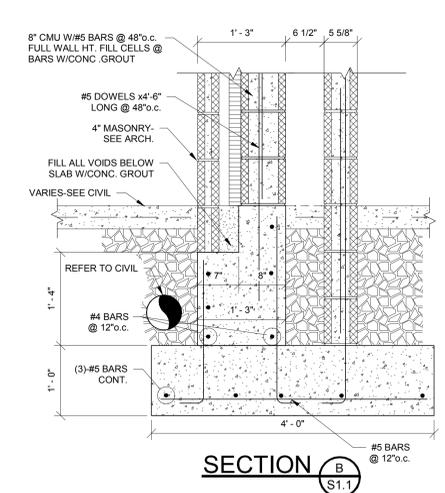
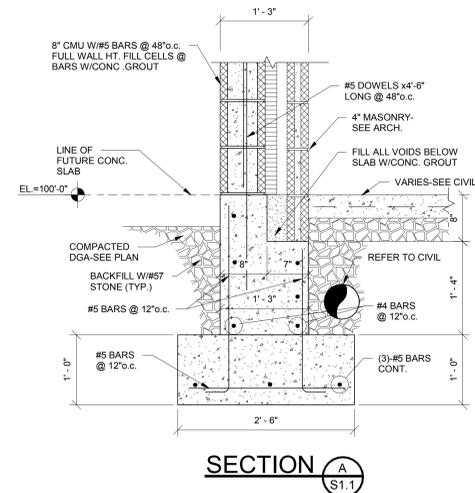


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- NOTES:**
- 1) DATUM ELEVATION = 100'-0" ASSUMED.
 - 2) FILL ALL VOIDS BELOW FINISHED FLOOR OR GRADE w/CONCRETE GROUT.
 - 3) REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL INTERIOR NONLOAD-BEARING WALLS NOT LOCATED ON STRUCTURAL DRAWINGS.
 - 4) COORDINATE BRICK SEAT ELEVATIONS & LOCATION OF STEPS WITH SITE PLAN & ARCHITECTURAL CONTROL JOINTS.
 - 5) SAW CONTROL JOINTS IN THE CONCRETE SLAB IMMEDIATELY AFTER SET UP. REFER TO DRAWINGS, BUT MAXIMUM SPACING SHALL BE 16'-0" IN EITHER DIRECTION (TYPICAL UNLESS NOTED OTHERWISE).
 - 6) TOP OF ALL EXTERIOR COLUMN & WALL FOOTINGS SHALL BE 2'-0" BELOW FINISHED FLOOR (TYP. U.N.O.)
 - 7) TOP OF ALL INTERIOR COLUMN & WALL FOOTINGS SHALL BE 8" BELOW FINISHED FLOOR (TYP. U.N.O.)
 - 8) PROVIDE THICKENED SLAB UNDER ALL WALLS WITHOUT FOOTINGS SHOWN
 - 9) CONTRACTOR SHALL COORDINATE FLOOR DRAINS, AND DEPTHS WITH MECHANICAL. REFER TO ARCH. FOR REQ'D FLOOR SLOPE.

FOUNDATION PLAN



- NOTES:**
- 1) DATUM ELEVATION = 100'-0" ASSUMED.
 - 2) REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL INTERIOR NONLOAD-BEARING WALLS NOT LOCATED ON STRUCTURAL DRAWINGS.
 - 3) SAW CONTROL JOINTS IN THE CONCRETE SLAB IMMEDIATELY AFTER SET UP. REFER TO DRAWINGS, BUT MAXIMUM SPACING SHALL BE 16'-0" IN EITHER DIRECTION (TYPICAL UNLESS NOTED OTHERWISE).
 - 4) TOP OF ALL EXTERIOR COLUMN & WALL FOOTINGS SHALL BE 2'-0" BELOW FINISHED FLOOR (TYP. U.N.O.)
 - 5) TOP OF ALL INTERIOR COLUMN & WALL FOOTINGS SHALL BE 8" BELOW FINISHED FLOOR (TYP. U.N.O.)
 - 6) PROVIDE THICKENED SLAB UNDER ALL WALLS WITHOUT FOOTINGS SHOWN
 - 7) CONTRACTOR SHALL COORDINATE FLOOR DRAINS, AND DEPTHS WITH MECHANICAL. REFER TO ARCH. FOR REQ'D FLOOR SLOPE.

PROJECT NAME
 HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE

PROJECT ADDRESS
 2100 Fontaine Rd. Lexington, KY
 40502

SHEET NAME
 FOUNDATION PLAN

PROJECT NO. 22258
DATE 1/16/2023

REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER
 S1.1



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PROJECT NAME
 HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE

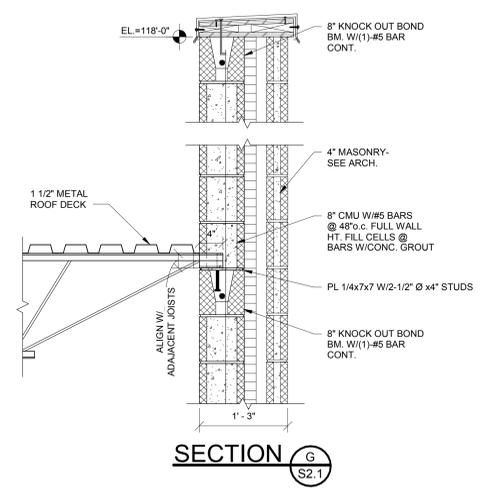
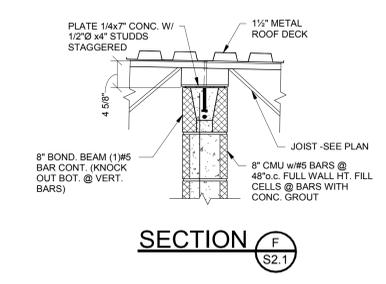
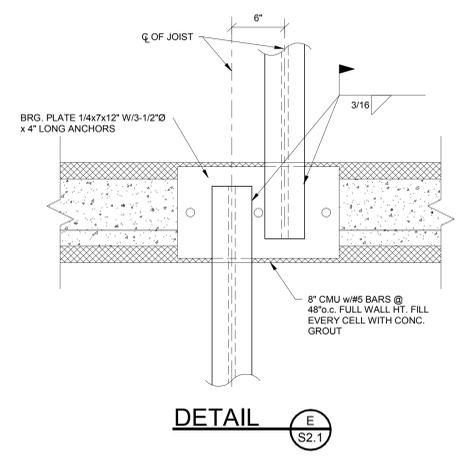
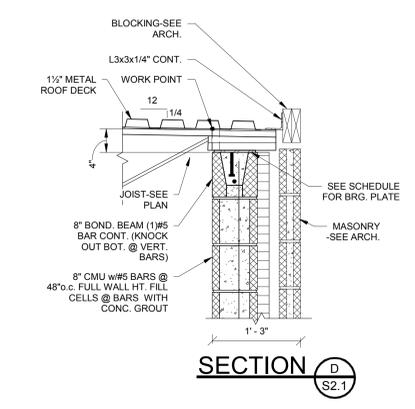
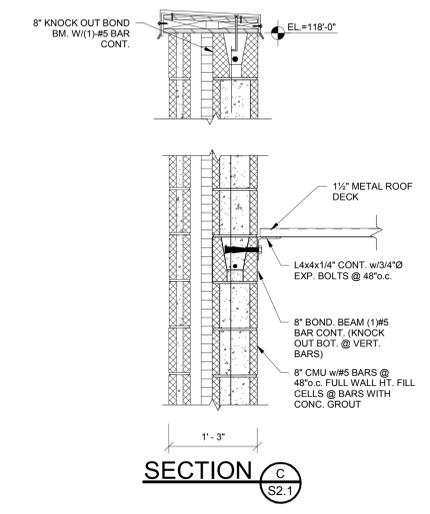
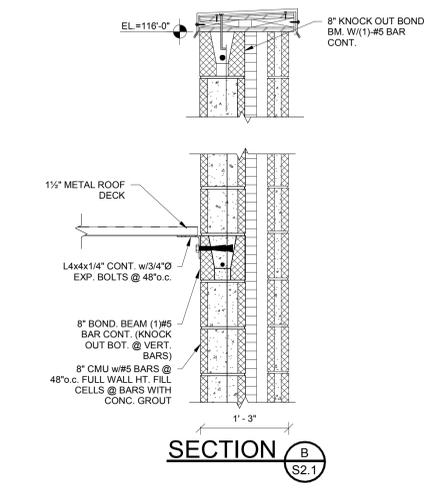
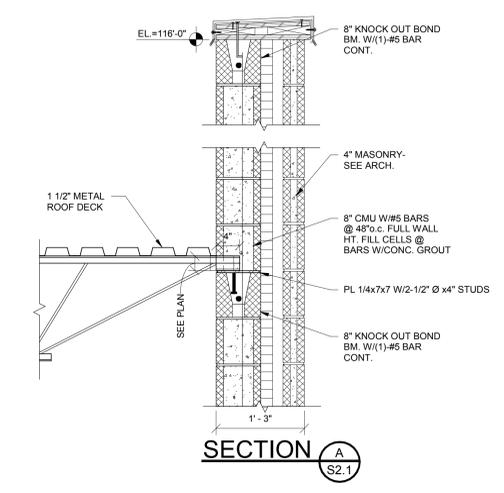
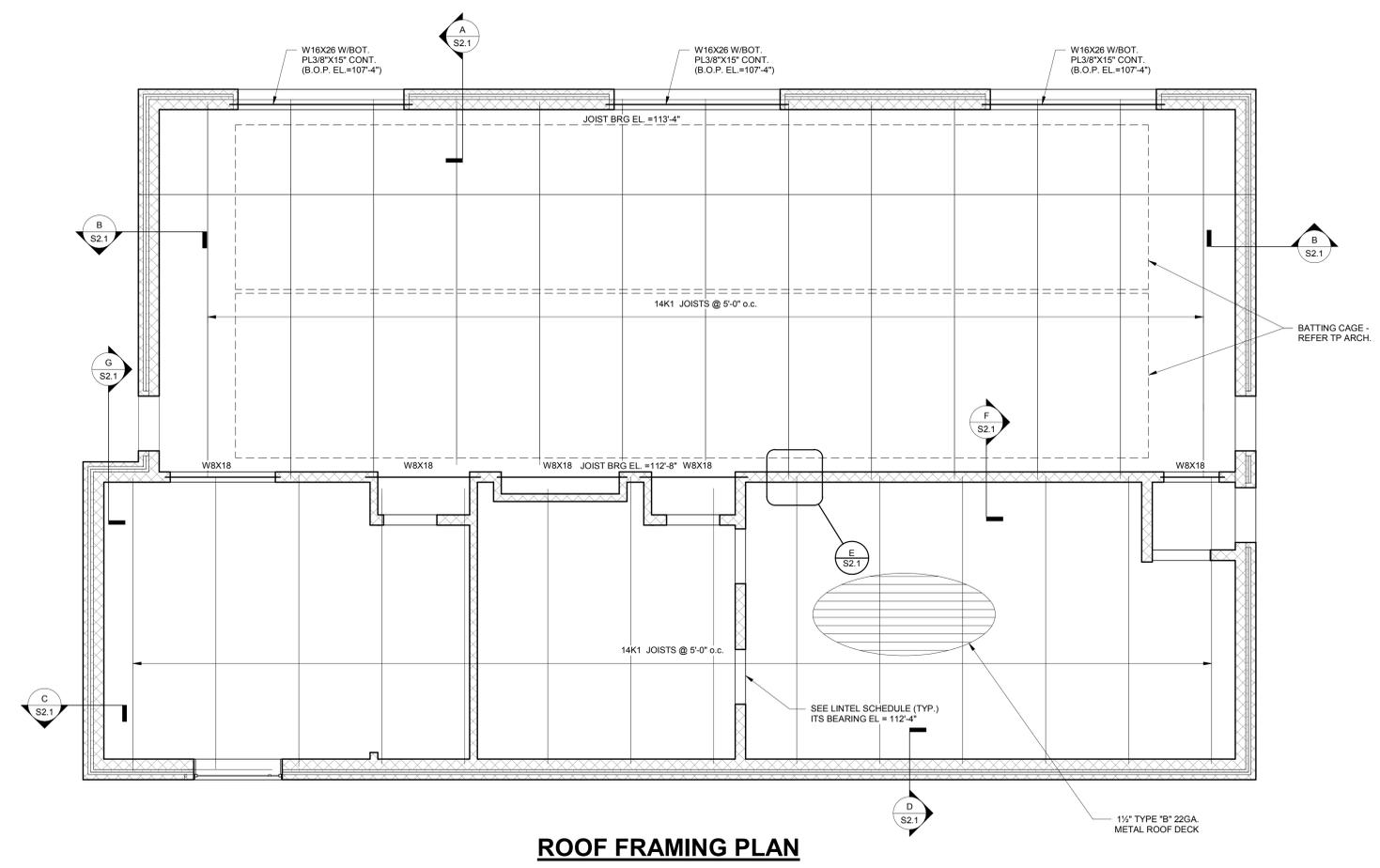
PROJECT ADDRESS
 2100 Fontaine Rd, Lexington, KY
 40502

SHEET NAME
 ROOF FRAMING
 PLAN

PROJECT NO. 22258
DATE 1/16/2023
REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER
S2.1

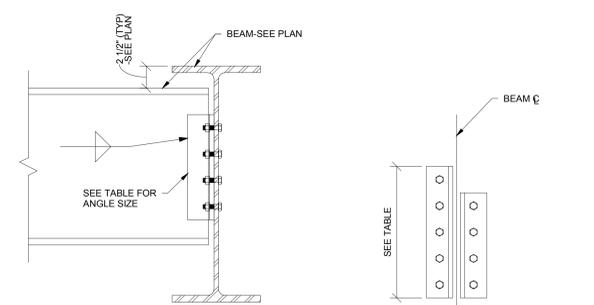




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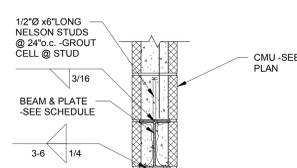


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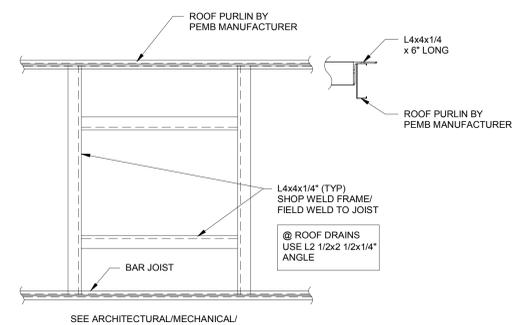


BEAM SIZE	ANGLE		WELD SIZE	BOLTS
	SIZE	LENGTH		
W6	2-L 3x3x3/16"	4"	3/16" FILLET	(2)-3/4"Ø A325
W8	2-L 3x3x3/16"	6"	3/16" FILLET	(4)-3/4"Ø A325
W12	2-L 3x3x3/16"	9"	3/16" FILLET	(6)-3/4"Ø A325
W16 & W18	2-L 3x3x1/2"	12"	1/4" FILLET	(8)-3/4"Ø A325
W21	2-L 3x3x1/2"	15"	1/4" FILLET	(12)-3/4"Ø A325
W24	2-L 3x3x1/2"	18"	1/4" FILLET	(14)-3/4"Ø A325
W30	2-L 3x3x1/2"	21"	1/4" FILLET	(16)-3/4"Ø A325

NOTE:
 STAGGER SUPPORT ANGLES ALLOWING EACH BEAM TO BE TEMPORARILY SUPPORTED DURING ERECTION. (IF APPLICABLE)

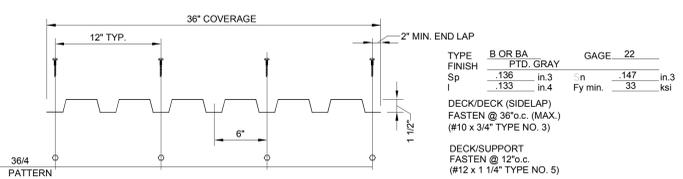


TYPICAL LINTEL BEAM



TYPICAL ROOF OPENING
 (FOR ALL OPENINGS GREATER THAN 12")
 (INCLUDES BUT IS NOT LIMITED TO ROOF DRAINS)

NOTE:
 AT ALL LOCATIONS WHERE EXISTING ROOF OPENINGS ARE TO BE COVERED [REFER TO ARCH/MEP], THE CONTRACTOR SHALL COVER THE PENETRATIONS W/ NEW METAL DECK AND SHALL ATTACH LAP TO EXIST ROOF PER DECK MANUFACTURERS SPECIFICATIONS

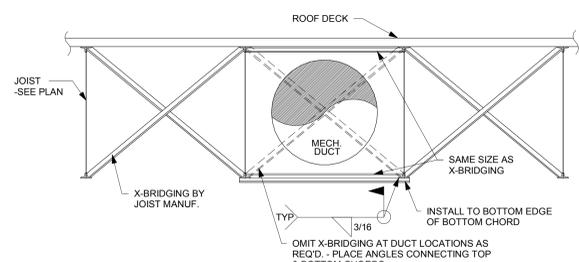


TYPICAL ROOF DECK ATTACHMENT

LINTEL SCHEDULE

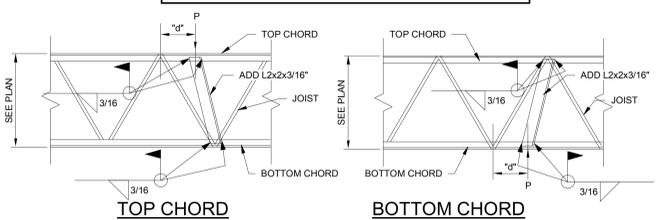
OPENING	4" BRICK		4" BLOCK		6" BLOCK		8" BLOCK		12" BLOCK		8" BLOCK & 4" BRICK		12" BLOCK & 4" BRICK	
	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE	SIZE	SHAPE
0 TO 4'-0"	L31x31x1/4"	L	PL14x31/2(H) PL14x31/2(V)	⊥	BOND BM w/1-#5 BAR	U	BOND BM w/1-#5 BAR	U	BOND BM w/2-#5 BARS	W	L31x31x1/4" BOND BM w/2-#5 BAR	W	L31x31x1/4" BOND BM w/2-#5 BAR	W
4'-1" TO 6'-0"	L4x31x1/4"	L	PL516x31/2(H) PL516x4(V)	⊥	W8x10 w/ PL14x5 1/4"	U	16" BOND BM w/2-#5 BARS	U	16" BOND BM w/2-#5 BARS	W	L4x31x1/4" 16" BOND BM w/2-#5 BARS	W	L4x31x1/4" 16" BOND BM w/2-#5 BARS	W
6'-1" TO 8'-0"	L5x31x5/16"	L	PL38x31/2(H) PL38x4(V)	⊥	W8x13 w/ PL14x5 1/4"	U	W8x15 w/ PL14x7"	U	W8x15 w/ PL516x11"	W	W8x18 w/ PL516x13"	W	W8x21 w/ PL38x17"	W
8'-1" TO 10'-0"					W8x15 w/ PL14x5 1/4"	U	W8x18 w/ PL516x7"	U	W8x18 w/ PL516x11"	W	W8x21 w/ PL38x13"	W	W8x24 w/ PL38x17"	W
10'-1" TO 12'-0"							W8x21 w/ PL516x7"	U	W8x21 w/ PL516x11"	W	W8x24 w/ PL38x13"	W	W8x24 w/ PL38x17"	W
12'-1" TO 14'-0"							W8x24 w/ PL38x7"	U	W8x24 w/ PL38x11"	W	W8x24 w/ PL38x13"	W	W8x28 w/ PL38x17"	W
14'-1" TO 16'-0"							W8x28 w/ PL38x7"	U	W8x28 w/ PL38x11"	W	W8x28 w/ PL38x13"	W	W8x31 w/ PL38x17"	W

NOTE:
 1.) THIS LINTEL SCHEDULE IS FOR ALL MASONRY OPENINGS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PROVIDE ALL NECESSARY STEEL LINTELS AND MISC. FRAMING REQUIRED TO COMPLETE THE PROJECT WHETHER SHOWN ON THIS LINTEL SCHEDULE OR NOT.
 2.) AT EXTERIOR WALL CONDITIONS, ONLY THE STEEL PLATE SHALL BE GALVANIZED, PROVIDED THE STEEL BEAM IS NOT EXPOSED.
 3.) IF THE LINTEL OCCURS AT A CORNER, THE STEEL PLATE SHALL BE EXTENDED TO A MITERED CORNER.
 4.) ALL LINTEL BEAMS OVER MASONRY OPENINGS GREATER THAN 6'-0" SHALL HAVE NELSON STUDS. REFER TO TYPICAL LINTEL BEAM DETAIL.
 5.) ALL LINTEL BEAMS SPANNING GREATER THAN 8'-0" SHALL HAVE BEARING PLATES AND THE BOTTOM PLATE SHALL EXTEND FULL BEAM LENGTH. REFER TO TYPICAL BEAM BEARING DETAIL.
 6.) PLATE WIDTH MAY VARY FROM STANDARD SIZES SHOWN. CONTRACTOR SHALL VERIFY SIZE SO THAT WIDTH=(WALL THICKNESS - 1").
 7.) IN LOCATIONS WHERE BOND BEAMS WILL ATTACH TO STEEL COLUMNS, THE CONTRACTOR SHALL SUBSTITUTE A STEEL BEAM AND PLATE. REFER TO THE SCHEDULE FOR THE NEXT AVAILABLE SIZE.
 8.) THIS SCHEDULE APPLIES FOR MASONRY OPENINGS REQUIRED BY SOFFITS OR RECESSED DOOR OPENINGS SHOWN ON ARCHITECTURAL DRAWINGS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
 9.) ALL LINTELS SHALL BEAR A MINIMUM OF 8" ON CMU. BEARING ON BRICK VENEER DOES NOT COUNT TOWARDS THE MINIMUM BEARING REQUIREMENTS.

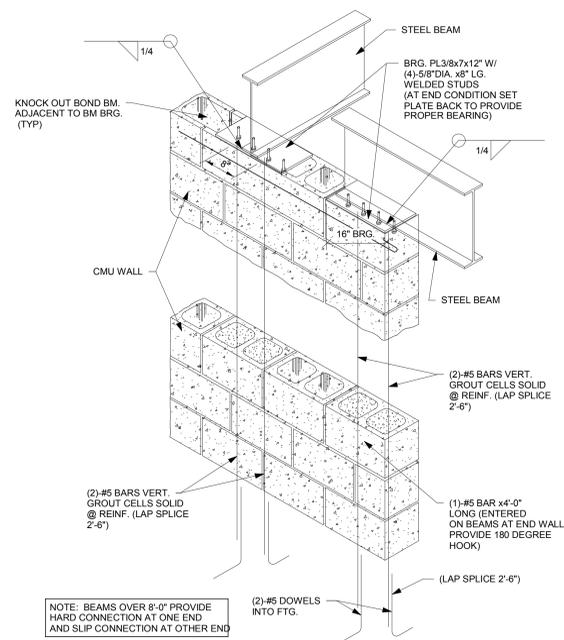


JOIST X-BRIDGING MODIFICATION @ MECH. DUCT LOCATIONS

NOTES: 1) FOR "D" LESS THAN 6"-NO REINFORCING IS REQUIRED
 2) FOR "P" LESS THAN 100#-NO REINFORCING IS REQUIRED



REINFORCING REQUIRED AT ALL CONCENTRATED LOADS



TYPICAL BEAM BRG. @ C.M.U. WALL

PROJECT NAME
**HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE**

PROJECT ADDRESS
 2100 Fontaine Rd, Lexington, KY
 40502

SHEET NAME
**SECTIONS &
 DETAILS**

PROJECT NO. 22258
 DATE 1/16/2023
 REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER
S3.1

ELEVATION GENERAL NOTES

- A VERTICAL DIMENSIONS SHOWN ON BUILDING ELEVATIONS APPLY TO OTHER ELEVATIONS WHERE SHOWN U.N.O.
- B LINES REPRESENTING PAVING AND FINISH GRADES ARE SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO SITE PLANS FOR SPECIFIC GRADE AND SPOT ELEVATIONS.
- C REFER TO FLOOR PLANS FOR LOCATIONS OF OPENINGS. REFER TO DOOR, WINDOW AND FRAME SCHEDULES FOR FULL EXTENT OF AND COMPLETE DESCRIPTION OF DOOR, WINDOW AND FRAME TYPES, PORTION OF DOORS, WINDOWS, STOREFRONTS, AND CURTAIN WALLS MAY BE CONCEALED BY OTHER BUILDING FEATURES SHOWN.
- D MASONRY & DOOR / WINDOW CONTRACTORS SHALL COORDINATE OPENING SIZES AS SHOWN, PROVIDE DIMENSIONS ON SHOP DRAWINGS FOR VERIFICATION.
- E EXPOSED EXTERIOR SHEET METAL COPINGS AND TRIM SHALL BE PREFINISHED GALV. SHEET METAL U.N.O.
- F EXPOSED SEALANT IN MASONRY & MASONRY JOINTS SHALL MATCH THE COLOR OF ADJACENT MASONRY. PROVIDE SEALANT IN LIEU OF MORTAR AT MASONRY LINTEL BEARING LOCATIONS WHERE MASONRY JOINT DEPTH IS LESS THAN 1".
- G EXPOSED EXTERIOR MASONRY SHALL RECEIVE WATER REPELLENT - SEE SPECIFICATIONS.
- H CONTRACTORS (INC. MASONRY, STONE & SIDING) SHALL COORDINATE LOCATIONS OF EXTERIOR ELECTRICAL OUTLETS, LIGHT FIXTURES, DOOR OPERATORS, HOSE BIBS, ETC. WHERE REQUIRED SUCH ITEMS SHALL BE CAST IN OR PLACED BY RESPONSIBLE TRADE. NOT ALL SUCH ITEMS MAY BE SHOWN ON ELEVATIONS.
- I PROVIDE EXPANSION JOINTS AT BUILDING CORNERS U.N.O. ON BUILDING ELEVATIONS. PROVIDE MASONRY EXPANSION JOINTS AT INTERIOR BUILDING CORNERS, ADJACENT TO EXTERIOR BUILDING CORNERS (MAX 4" FROM CORNER) AND AT EVERY 25'-0" U.N.O. ON BUILDING ELEVATIONS.
- J ARCHITECT TO SELECT EXTERIOR FINISHES AND COLORS. PHYSICAL SAMPLES OF EXTERIOR FINISHES SHALL BE SUBMITTED SIMULTANEOUSLY TO COMPARE AND REVIEW ALL FINISHES TOGETHER U.N.O.
- K SEE FLOOR PLAN, SECTIONS, DETAILS & WALL TYPES FOR ADDITIONAL MATERIAL INFORMATION. SEE ROOF PLAN & DETAILS FOR ADDITIONAL ROOFING AND ROOF DRAINAGE INFORMATION. SEE WALL SECTIONS & STRUCTURAL FOR BEARING HEIGHTS.
- L MPE ITEMS SHOWN FOR REFERENCE ONLY - SEE MPE DRAWINGS FOR MORE INFORMATION.

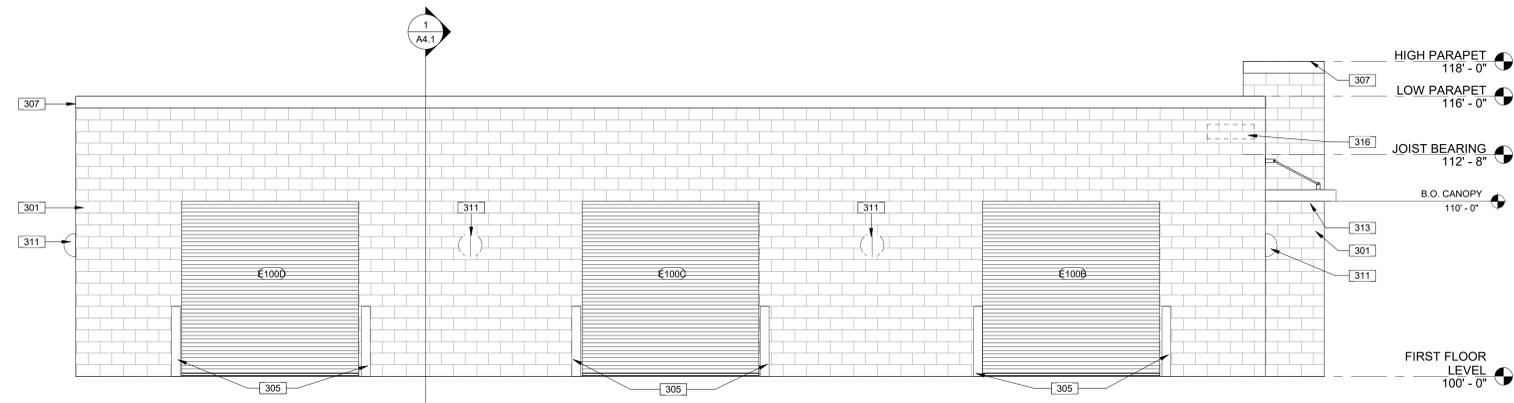
ELEVATION KEYNOTES

- 301 4" (NOMINAL) CMU (SEALED AND PAINTED) - SEE STRUCTURAL.
- 302 MASONRY EXPANSION JOINT - OMIT MORTAR AND HORIZ. REINFORCING. FILL WITH 50% COMPOSITE FOAM CAULK. AT STONE BANDS AND TRIM, USE FLUSH 3/8" VERTICAL EXPANSION JOINTS W/ SQUARE EDGE AND SEALANT FLUSH WITH FRONT OF STONE. USE CONCAVE 3/8" VERTICAL EXPANSION JOINTS WHERE PORTIONS OF SUCH JOINTS FORM A VISIBLE PART OF THE STONE JOINT PATTERN. JOINT LOCATIONS MUST BE APPROVED BY ARCHITECT.
- 305 BOLLARDS - SEE FLOOR PLAN FOR LOCATIONS & MORE INFO.
- 307 PREFINISHED GALVANIZED METAL COPING ARCHITECT TO SELECT COLOR - SEE ROOF PLAN, DETAILS AND WALL SECTIONS.
- 308 GUTTER ARCHITECT TO SELECT COLOR - SEE ROOF PLAN.
- 309 DOWNSPOUT (DS), ARCHITECT TO SELECT COLOR - SEE ROOF PLAN. PROVIDE CAST IRON DS BOOT. PAINT TO MATCH DS & CONNECT TO SUBSURFACE DRAINAGE - SEE CIVIL FOR CONTINUATION.
- 311 WALL MOUNTED LIGHT - SEE ELECTRICAL FOR FIXTURE INFO & MOUNTING HEIGHT. PROVIDE ADA COMPLIANT FIXTURE WHERE MOUNTED 6'-8" OR LOWER ABOVE WALKING SURFACE. PROVIDE FRT BLOCKING FOR SUPPORT. CENTER BETWEEN OPENINGS / ON WALL U.N.O.
- 313 PREFINISHED ALUMINUM HANGER CANOPY W/ INTERNAL DRAIN.
- 316 10" TALL ALUMINUM BUILDING ADDRESS NUMERALS, ON STAND-OFFS PROVIDE FRT SHEATHING SUPPORT AS REQUIRED ARCHITECT TO SELECT TYPEFACE AND COLOR.
- 317 PAINTED LOGO PER OWNER APPROVAL.

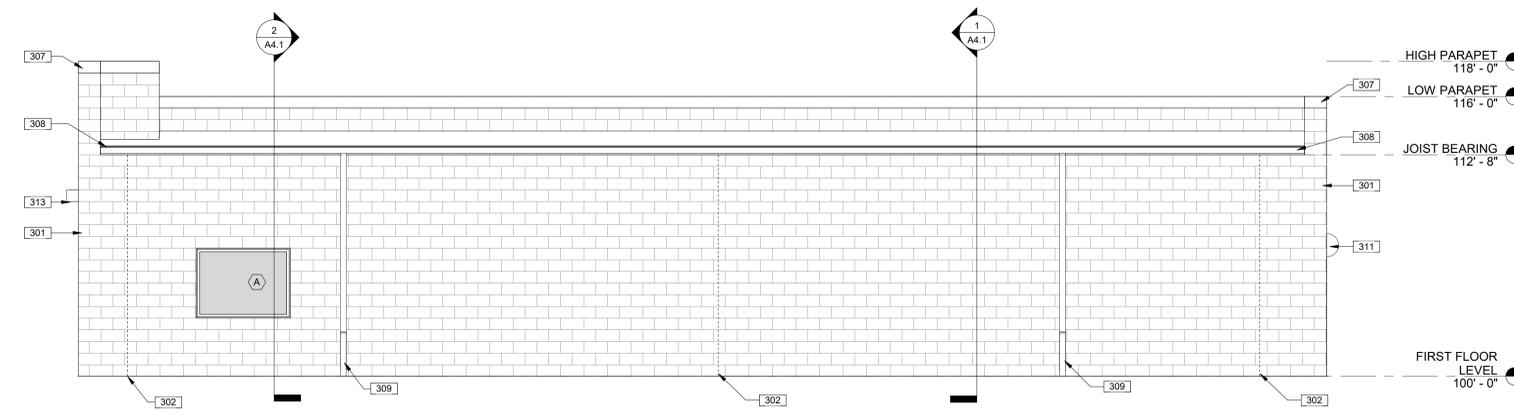
GENERAL SYMBOLS

- WALL TYPE, SEE A0.1
- SHEET KEYNOTES
- ROOM NUMBER, SEE FLOOR PLANS
- WINDOW TYPE, SEE A7.1
- DOOR TYPE, SEE A7.1
- PLUMBING/ACCESSORY TYPE, SEE A2.1
- BID ALTERNATE, SEE A0.0
- BUILDING ELEVATION, SEE A3.1-A3.2
- BUILDING OR WALL SECTION, SEE A4.1-A4.3
- DETAIL OR ENLARGED PLAN
- INTERIOR ELEVATION, SEE A10.1
- ELEVATION MARK
- WALL FIRE RATING DESIGNATION: SEE A0.2 & SECTIONS FOR RATED CONST. LOCATIONS & UL ASSEMBLIES
- SMOKE PARTITION
- 1 HOUR FIRE RATING (FP = FIRE PARTITION)
- 2 HOUR FIRE RATING (FB = FIRE BARRIER)
- 3 HOUR FIRE RATING (FW = FIRE WALL)

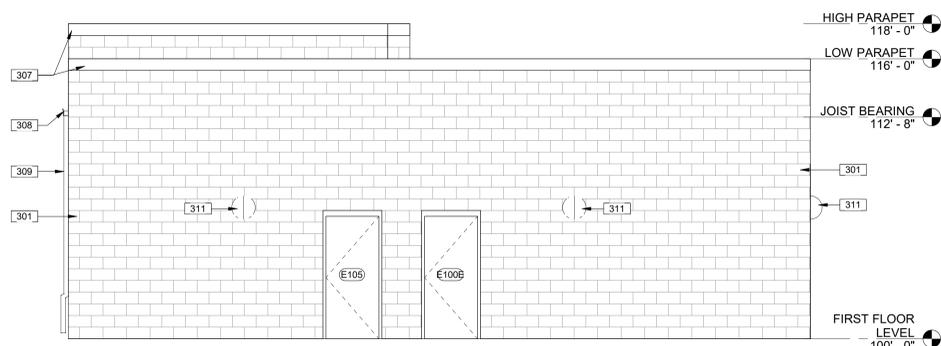
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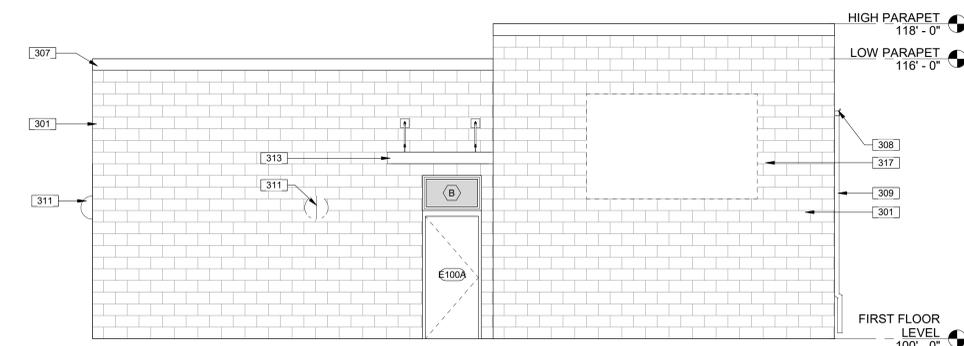
1 NORTH ELEVATION
1/4" = 1'-0"



2 SOUTH ELEVATION
1/4" = 1'-0"



3 EAST ELEVATION
1/4" = 1'-0"



4 WEST ELEVATION
1/4" = 1'-0"

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PROJECT NAME
HENRY CLAY HS
SOFTBALL FIELD
HOUSE

PROJECT ADDRESS
2100 Fontaine Rd, Lexington,
KY 40502

SHEET NAME
BUILDING
ELEVATIONS

PROJECT NO. 2220
DATE JAN 16 2023
REVISIONS

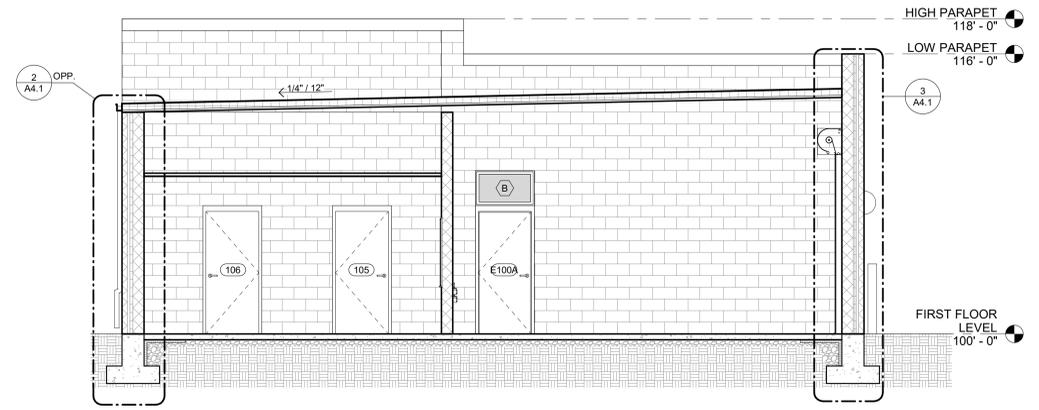
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A3.1



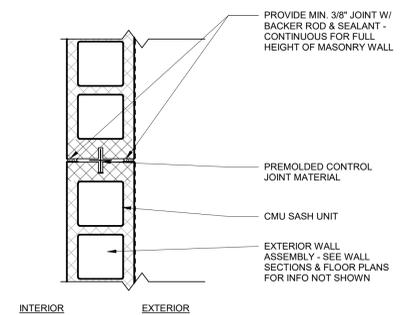
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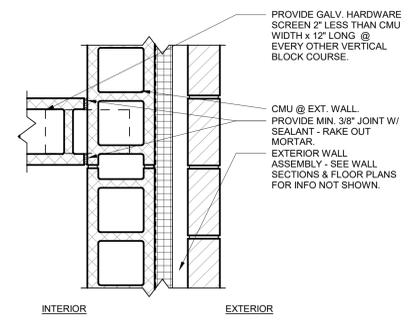
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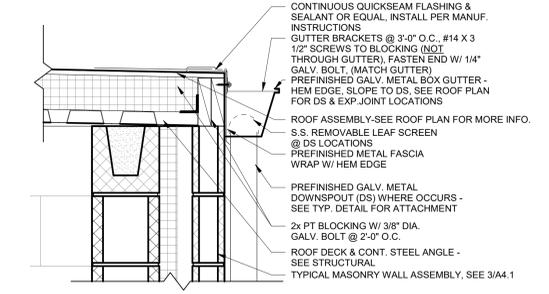
1 BUILDING SECTION
1/4" = 1'-0"



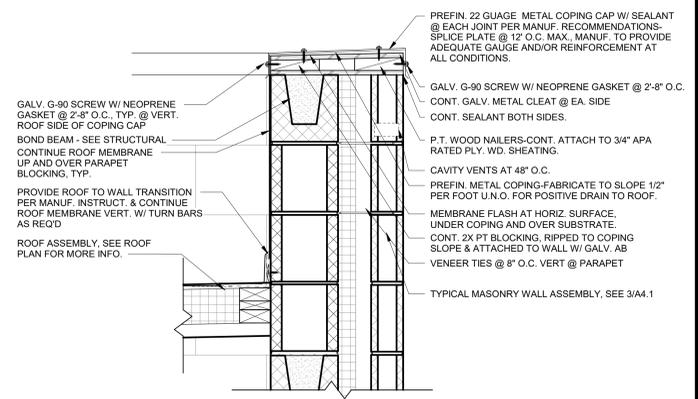
4 TYP. CMU EXTERIOR WALL CONTROL JOINT
1 1/2" = 1'-0"



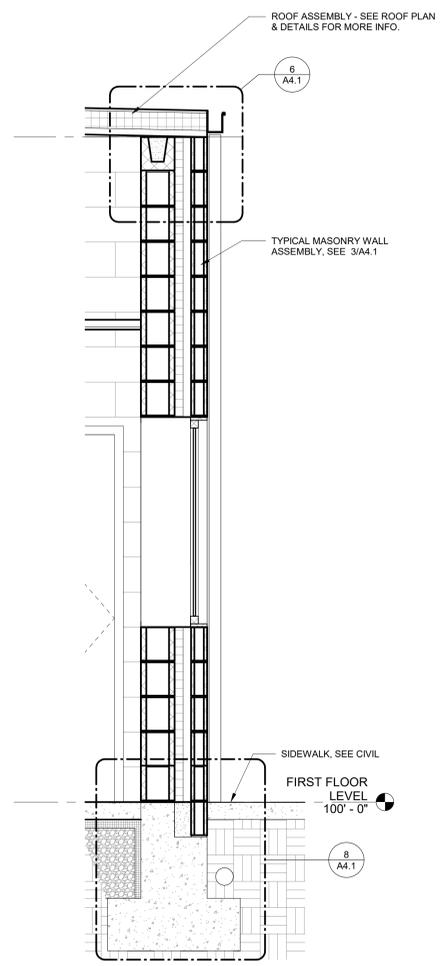
5 TYP. CMU EXTERIOR WALL CONTROL JOINT
1 1/2" = 1'-0"



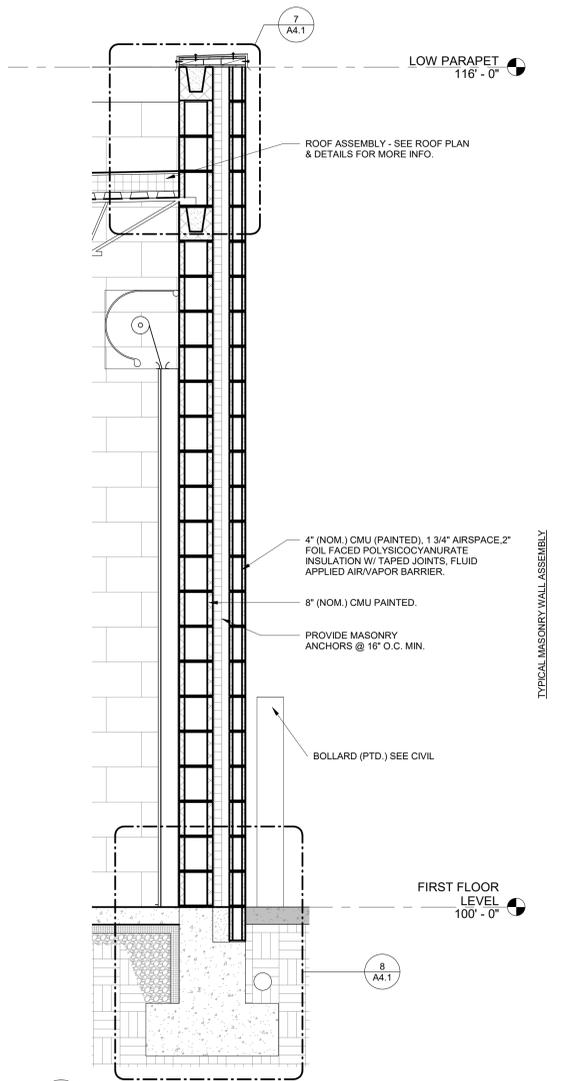
6 TYP. GUTTER DETAIL
1 1/2" = 1'-0"



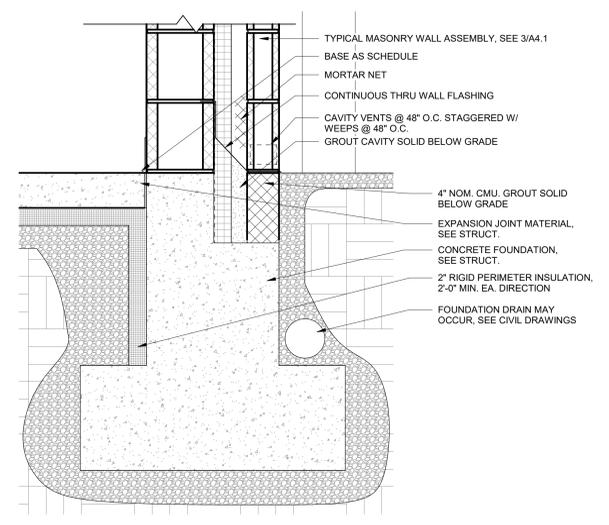
7 COPING CAP DETAIL
1 1/2" = 1'-0"



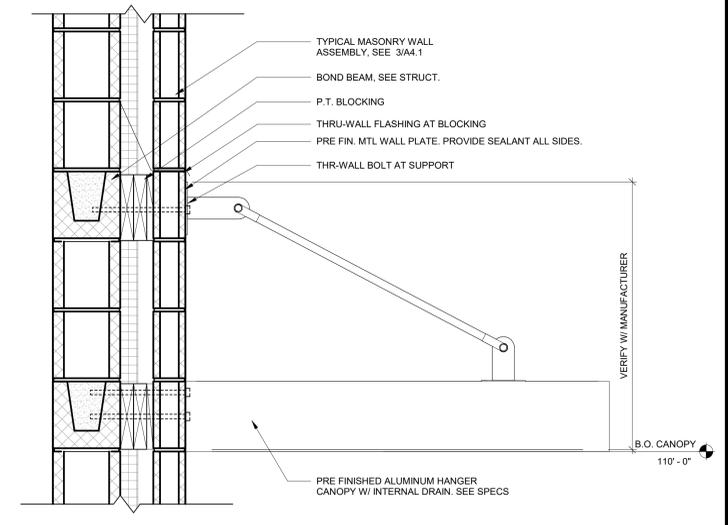
2 WALL SECTION
3/4" = 1'-0"



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



8 DETAIL
1 1/2" = 1'-0"



9 TYP. CANOPY DETAIL
1 1/2" = 1'-0"

PROJECT NAME
**HENRY CLAY HS
SOFTBALL FIELD
HOUSE**

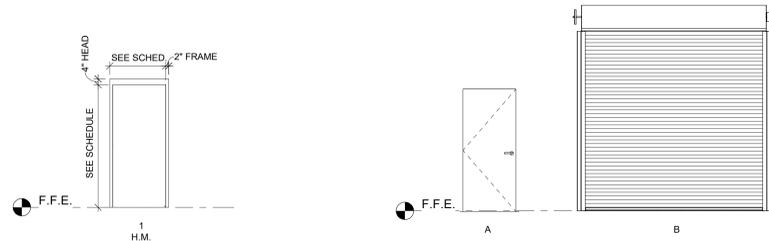
PROJECT ADDRESS
2100 Fontaine Rd, Lexington,
KY 40502

SHEET NAME
**BUILDING AND WALL
SECTIONS**

PROJECT NO. 2220
 DATE JAN 16 2023

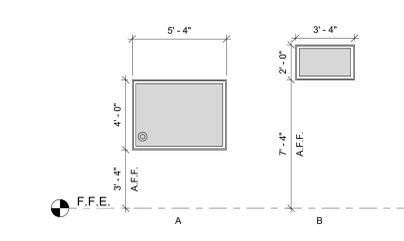
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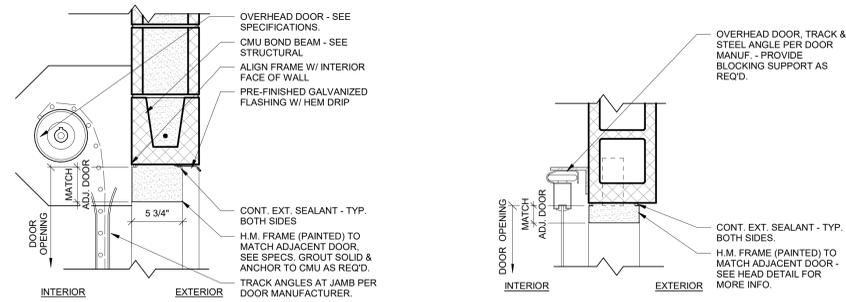


DOOR FRAME TYPES
1/4" = 1'-0"

DOOR TYPES
1/4" = 1'-0"



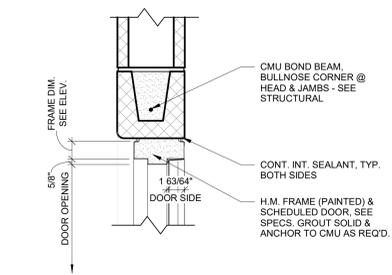
WINDOW TYPES
1/4" = 1'-0"



1 OVERHEAD DOOR HEAD
1 1/2" = 1'-0"

2 OVERHEAD DOOR JAMB
1 1/2" = 1'-0"

3 EXT. H.M. DOOR HEAD (JAMB SIM.)
1 1/2" = 1'-0"



4 INT. H.M. DOOR HEAD @ CMU WALL (JAMB SIM.)
1 1/2" = 1'-0"

DOOR NUMBER	LEAVES	DOOR				FRAME				FIRE RATING	REMARKS
		WIDTH	HEIGHT	MATERIAL	TYPE	MATERIAL	TYPE	GLAZING	HEAD DTL.		
101	2	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
102	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
103	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
104	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
105	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
105A	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
106	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	4/A7.1	4/A7.1 SIM.		
E100A	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	3/A7.1	3/A7.1 SIM.		
E100B	OH	10'-0"	10'-0"	GALV STL.	B	GALV STL.	1	1/A7.1	2/A7.1		
E100C	OH	10'-0"	10'-0"	GALV STL.	B	GALV STL.	1	1/A7.1	2/A7.1		
E100D	OH	10'-0"	10'-0"	GALV STL.	B	GALV STL.	1	1/A7.1	2/A7.1		
E100E	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	3/A7.1	3/A7.1 SIM.		
E105	1	3'-0"	7'-0"	INSUL HM	A	INSUL HM	1	3/A7.1	3/A7.1 SIM.		

DOOR AND FRAME GENERAL NOTES

- A SEE SHEET A7.2 FOR TYPICAL THRESHOLD CONDITIONS & TRANSITIONS. SEE FLOOR PLANS FOR DOOR SWING DIRECTION.
- B DOOR CLOSERS SHALL HAVE INTEGRAL MANUAL HOLD-OPEN FEATURE EXCEPT AT EXTERIOR DOORS, TOILET ROOM DOORS, DOORS LOCATED IN FIRE-RATED OR SMOKE PARTITIONS OR U.N.O.
- C WHERE CLOSER DEGREE OPENING EXCEEDS SPACE AVAILABLE AT ADJACENT WALL, PROVIDE BACKCHECK FOR DOOR CLOSER AS REQUIRED TO PREVENT DOOR / HARDWARE CONTACT WITH WALL. WHERE NO DOOR CLOSER IS PRESENT, PROVIDE DOOR STOP.
- D PROVIDE FRT BLOCKING BEHIND ALL GYPSUM BOARD FOR MOUNTING DOOR STOPS - 7/8" THICK BLOCKING AT GYPSUM BOARD AND FURRING CHANNELS ON CMU WALLS; 2x6 BLOCKING CHOR TO STUDS AT GYPSUM BOARD AND PARTITIONS.
- E PANIC DEVICES SHALL HAVE HEX KEY DOGGING FEATURE EXCEPT IN FIRE-RATED OR SMOKE PARTITIONS OR U.N.O.
- F ASTRAGALS SHALL BE PROVIDED AT ALL FIRE-RATED AND SMOKE PARTITION DOUBLE DOORS. DOOR COORDINATORS SHALL BE PROVIDED WHEREVER ASTRAGALS OCCUR.
- G ACM AND/OR MASONRY & DOOR/WINDOW CONTRACTORS SHALL COORDINATE PANEL / OPENING SIZES AS SHOWN; PROVIDE DIMENSIONS IN SHOP DRAWINGS FOR VERIFICATION.
- H WHERE ALUMINUM DOORS AND FRAMES ARE INDICATED, PROVIDE STEEL REINFORCEMENT AS REQUIRED FOR HARDWARE ATTACHMENT. PROVIDE FULL-HEIGHT STEEL REINFORCEMENT IN FRAMES AS REQUIRED.
- I WHERE DOORS OCCUR IN ALUMINUM FRAMES, VERIFY FRAME DIMENSIONS AND COORDINATE ACTUAL DOOR SIZES WITH FINISHED ALUMINUM OPENINGS.
- J PROVIDE 14 GA. GALVANIZED HOLLOW METAL (H.M.) FRAME, WELD CONT., GROUT SOLID, TYP. @ EXTERIOR H.M. FRAMES.
- K PROVIDE 12 GA. CHANNEL REINFORCING IN HEAD OF ALL H.M. FRAMES W/ OPENING 6'-0" WIDE & GREATER.
- L GLAZING IN DOORS & FRAMES TO BE TEMPERED SAFETY GLAZING U.N.O., AND PROVIDE LOW-E GLAZING AT EXTERIOR DOORS AND FRAMES - SEE ELEVATIONS FOR MORE INFO.
- M DOORS SHALL BE 1 3/4" THICK U.N.O.
- N WOOD DOORS SHALL BE STAINED U.N.O. - SEE FINISH SCHEDULE FOR MORE INFO.
- O HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED U.N.O. - SEE FINISH SCHEDULE FOR MORE INFO.
- P DOORS SHALL MAINTAIN CLEARANCES IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- Q HINGED DOORS ARE EGRESS DOORS U.N.O.
- R EGRESS DOORS SHALL HAVE TACTILE 'EXIT' SIGNS PER KBC SECTION 1013.4.
- S FOR DOOR HARDWARE, SEE SPECIFICATIONS. HANDLES SHOWN ON DOOR ELEVATIONS ARE FOR ILLUSTRATION OF MOUNTING HEIGHT ONLY.
- T FIELD VERIFY DIMENSIONS OF OPENINGS (INCLUDING WINDOWS & SPECIALTY OPENINGS) PRIOR TO FABRICATION U.N.O.

DOOR AND FRAME REMARKS

- 1 PANIC HARDWARE - SEE HARDWARE SCHEDULE.
- 2 INTEGRAL HOLD OPEN AND FIRE CLOSERS - SEE HARDWARE SCHEDULE.
- 3 DOOR CLOSER - SEE HARDWARE SCHEDULE.
- 4 EMERGENCY EXIT ONLY, NO EXTERIOR HARDWARE - SEE HARDWARE SCHEDULE.
- 5 DOOR IS NOT AN EGRESS DOOR.
- 6 DOUBLE ACTING DOOR - SEE HARDWARE SCHEDULE.
- 7 OPPOSING SWING DOUBLE DOOR - SEE HARDWARE SCHEDULE.
- 8 DOOR PREPARED FOR CARD READER FROM EXTERIOR/OUTSIDE & CONTACTS - SEE SPECIFICATIONS. FOR ACCESS CONTROL, SEE ELECTRICAL. AT DOUBLE DOORS, PROVIDE READER ON RIGHT SIDE DOOR.
- 9 DOOR PREPARED FOR CONTACTS - SEE SPECIFICATIONS.
- 10 ELECTRONIC STRIKE - SEE SPECIFICATIONS AND ELECTRICAL.
- 11 ADA DOOR ACTUATOR (ONE LEAF) - SEE SPECIFICATIONS AND ELECTRICAL.
- 12 MOTOR-OPERATED DOOR - SEE SPECIFICATIONS AND ELECTRICAL.
- 13 REMOVABLE MULLION - SEE DOOR HARDWARE.
- 14 ACOUSTIC SEALS - SEE DOOR HARDWARE.
- 15 1" UNDERCUT DOOR.
- 16 HIGH/LOW METAL SAFETY DROP BARS W/ 2" TALL LETTERING "NO FLOOR BEYOND - NOT AN EXIT" AT THIS OPENING.

FINISH PLAN GENERAL NOTES

- A USE LISTED FINISHES AS A BASE OF DESIGN AND BID ACCORDINGLY. ALL FINISHES LISTED ARE SUBJECT TO CHANGE BASED ON OWNER REVIEW.
- B NO SUBSTITUTIONS OF SPECIFIED FINISHES WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM ARCHITECT.
- C CONTRACTOR TO CONFIRM QUANTITIES OF FINISH MATERIALS WITH ACTUAL SITE CONDITIONS PRIOR TO ORDERING MATERIALS.
- D ALL PHYSICAL COLOR SAMPLES TO BE SUBMITTED TO THE ARCHITECT/OWNER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF ANY FINISH WORK; FAILURE TO PROVIDE SAMPLES FOR REVIEW AND APPROVAL WILL RESULT IN REJECTION AND REINSTALLATION OF ANY NON-APPROVED OR NON-ACCEPTABLE FINISH ITEMS AT THE GENERAL CONTRACTORS EXPENSE, INCLUDING COSTS FOR DELAYS. PHYSICAL SAMPLES SHALL BE SUBMITTED SIMULTANEOUSLY TO COMPARE AND REVIEW ALL FINISHES TOGETHER U.N.O.
- E MISCELLANEOUS METAL (RETURN AND SUPPLY AIR GRILLE, EXPANSION JOINTS, ETC.) LOCATED ON WALL AND CEILING SURFACES ARE TO BE PAINTED TO MATCH THE WALL OR CEILING COLOR.
- F CONTACT THE ARCHITECT FOR ITEMS REQUIRING FINISH SELECTIONS WHICH DO NOT APPEAR ON THE DRAWINGS OR SCHEDULES. SUBMITTALS OF ALL FINISH MATERIALS IS REQUIRED FOR THE ARCHITECT'S APPROVAL PRIOR TO ORDERING OF MATERIALS.
- G WHERE ACOUSTICAL CEILING TILES HAVE BEEN CUT, PAINT CUT EDGES TO MATCH THE ADJACENT CEILING COLOR.
- H ALL THRESHOLDS SHALL BE LOCATED AT CENTERLINE OF DOOR WHEN IN THE CLOSED POSITION.
- I TRANSITION STRIPS TO BE USED AT ALL CHANGES IN FLOORING WHERE APPLICABLE.
- J GYPSUM BOARD CORNERS IN PUBLIC AREAS TO HAVE CORNER GUARDS FULL HEIGHT U.N.O.
- K WHERE (E) FINISHES ARE TO REMAIN, PROTECT / PATCH / REPAIR / EXTEND AS REQUIRED TO MATCH ORIGINAL FINISHES IN THE SPACE. IF MATCHING FINISHES ARE NOT AVAILABLE / SALVAGABLE, CONTACT ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING.

GLAZING LEGEND

SEE DOOR SCHEDULE, BUILDING / DOOR / WINDOW ELEVATIONS, AND SECTIONS FOR MARK LOCATIONS. NOT EVERY LOCATION MAY BE MARKED. PROVIDE SPECIAL GLAZING AS REQUIRED FOR CODE COMPLIANCE. SEE SPECIFICATIONS FOR ADDITIONAL INFO. SPECIAL GLAZING INDICATED BY THE FOLLOWING MARKS:
 (1) FROSTED GLAZING (ALSO INDICATED BY HATCH FILL)
 (2) RATED (R) WIRE GLASS GLAZING PER CODE
 (3) SECURITY (SECUR. OR S) GLAZING
 (4) SPANDREL GLAZING (ALSO INDICATED BY HATCH FILL)
 (5) TEMPERED (TEMP. OR T) SAFETY GLAZING PER CODE.

GENERAL SYMBOLS

- WALL TYPE, SEE A0.1
- SHEET KEYNOTES
- ROOM NUMBER, SEE FLOOR PLANS
- WINDOW TYPE, SEE A7.1
- DOOR TYPE, SEE A7.1
- PLUMBING/ACCESSORY TYPE, SEE A2.1
- BID ALTERNATE, SEE A0.0
- BUILDING ELEVATION, SEE A3.1-A3.2
- BUILDING OR WALL SECTION, SEE A4.1-A4.3
- DETAIL OR ENLARGED PLAN
- INTERIOR ELEVATION, SEE A10.1
- ELEVATION MARK
- WALL FIRE RATING DESIGNATION: SEE A0.2 & SECTIONS FOR RATED CONST. LOCATIONS & UL ASSEMBLIES
- SP - SMOKE PARTITION
- FP1 - 1 HOUR FIRE RATING (FP = FIRE PARTITION)
- FB2 - 2 HOUR FIRE RATING (FB = FIRE BARRIER)
- FW3 - 3 HOUR FIRE RATING (FW = FIRE WALL)

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PROJECT NAME
HENRY CLAY HS
SOFTBALL FIELD
HOUSE

PROJECT ADDRESS
2100 Fontaine Rd, Lexington,
KY 40502

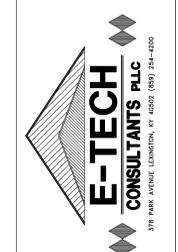
SHEET NAME
DOOR & WINDOW
ELEVATIONS, DOOR
SCHEDULE &
DETAILS

PROJECT NO.	2220	
DATE	JAN 16 2023	
REVISIONS		
NO.	DESCRIPTION	DATE

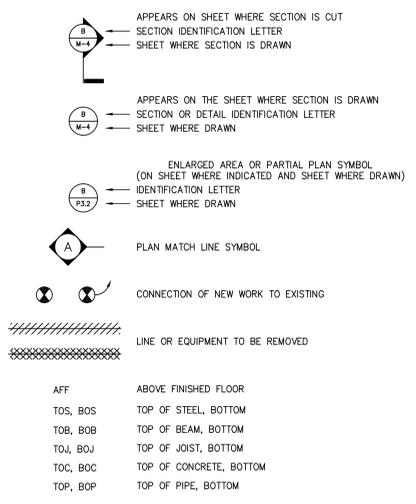
SHEET NUMBER
A7.1



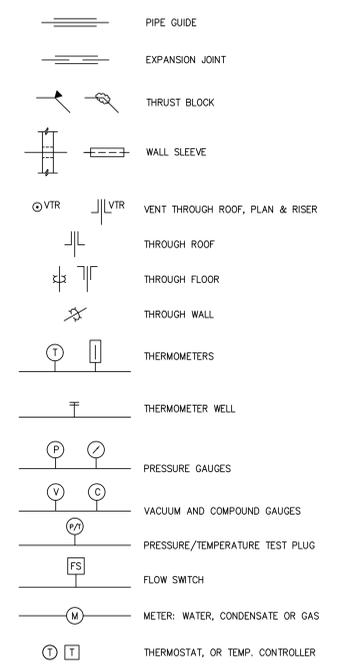
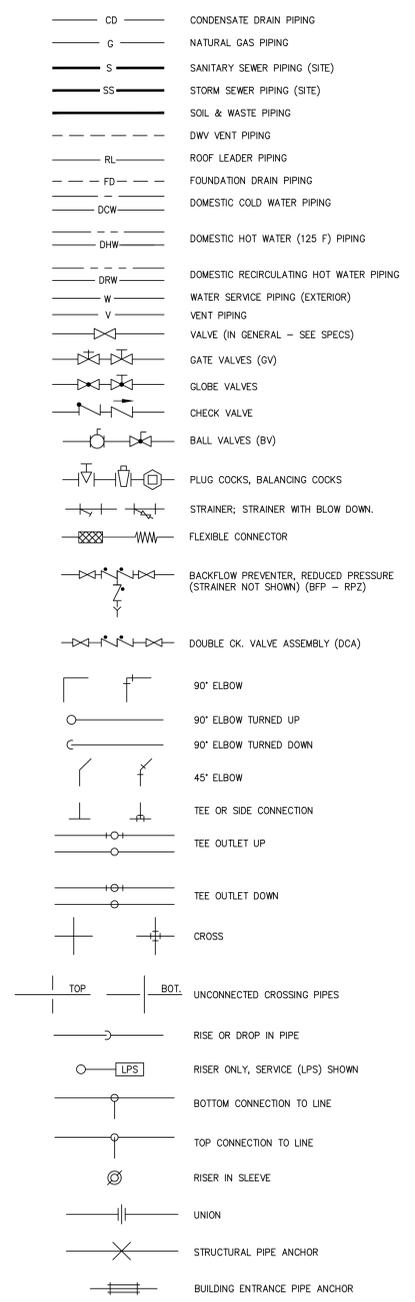
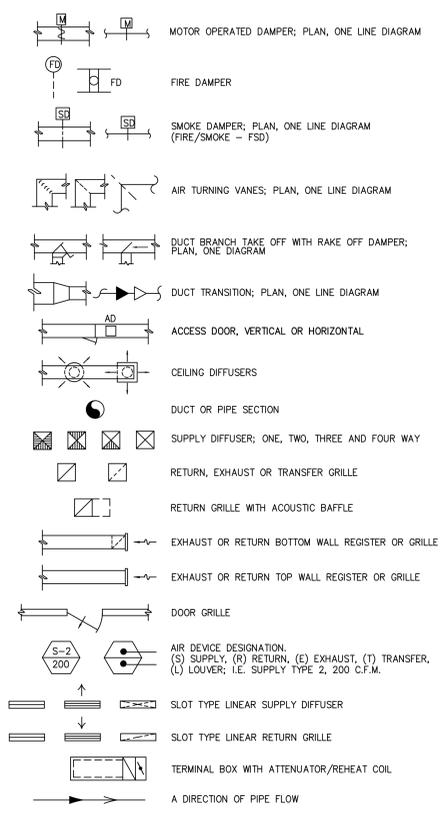
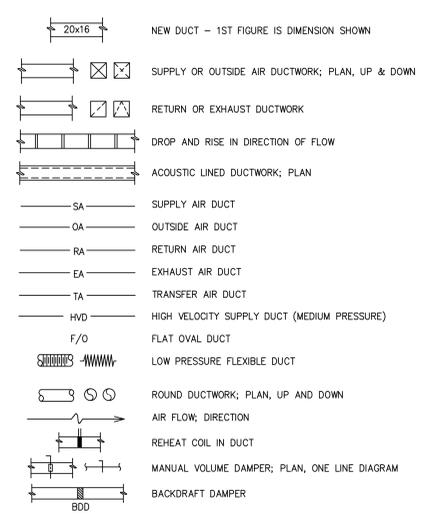
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GENERAL LEGEND



MECHANICAL LEGEND HVAC, PLUMBING & FIRE PROTECTION



PROJECT NAME
 HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE

PROJECT ADDRESS
 2100 FONTAINE RD
 LEXINGTON, KY 40502

SHEET NAME
 MECHANICAL
 LEGEND

PROJECT NO. 2220
 DATE JAN 16, 2023

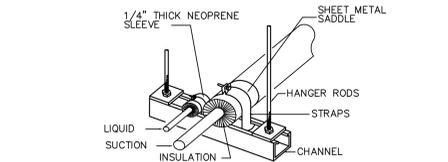
NO.	DESCRIPTION	DATE

SHEET NUMBER
 M0.0

GENERAL SHEET NOTES

- CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY OR NEW EQUIPMENT.
- CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- ANY HEATING/COOLING SYSTEM 2000 CFM OR GREATER TO BE MONITORED W/SMOKE DETECTION IN RETURN AIR DUCT SO SYSTEMS FAN WILL BE SHUT DOWN AS PER NFPA.
- PROVIDE "FRESH OUTSIDE AIR" AS REQUIRED BY INTERNATIONAL MECHANICAL CODES.
- PROVIDE COMPLETE SYSTEM AS COORDINATED WITH GC AND OTHER TRADES AND IN ACCORDANCE WITH CURRENT IMC AND ASHRAE 62 STANDARDS. ALL SYSTEMS MUST BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, KENTUCKY BUILDING CODE AND NFPA. ALL ELECTRICAL AND PLUMBING REQUIREMENTS RELATED TO HVAC TO BE COORDINATED BY THIS SUBCONTRACTOR WITH ELECTRICIAN AND PLUMBER. ALL CONTROL WIRING FOR HVAC EQUIPMENT MUST BE INSTALLED BY THE HVAC SUBCONTRACTOR.
- MANUFACTURERS MIN CLEARANCES TO BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- COORDINATE ALL ROOF & WALL PENETRATIONS WITH OWNER.
- ALL RECTANGULAR AND ROUND DUCTS SHALL BE SIZED AS SHOWN ON THE DRAWINGS. DUCT SIZES SHOWN ARE FREE AREA SIZES AND THE CONTRACTOR SHALL MAKE ALLOWANCES TO INCLUDE EXTERNAL DUCT WRAP INSULATION ON RECTANGULAR AND ROUND DUCTS PER THE SPECIFICATIONS.
- ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE FABRICATED USING MILD GALVANIZED SHEET METAL. FIBERGLASS DUCTBOARD IS PROHIBITED. FLEXIBLE DUCT MAY BE USED FOR DIFFUSER RUNOUTS AND MUST BE INSTALLED IN STRAIGHT RUNS WITH MINIMUM TURNING AND SAGGING. FLEXIBLE DUCT INSTALLED WITH UNNECESSARY OR EXCESSIVE TURNS OR SAGS WILL BE RE-INSTALLED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED ASHRAE AND SMACNA STANDARDS. ROUTE DUCTWORK AS HIGH AS POSSIBLE.
- INSTALL TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.
- MANUFACTURER'S MINIMUM CLEARANCE RECOMMENDATIONS SHALL BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- PROVIDE A DRAIN LINE FROM EACH ITEM OF EQUIPMENT REQUIRING A DRAIN (COOLING COIL DRAIN PANS, PUMPS, BACKFLOW PREVENTERS, HEAT PUMP UNITS, ETC.) TO THE NEAREST ROOF DRAIN, FLOOR DRAIN, OPEN RECEPTACLE TO OUTSIDE OF THE BUILDING, OR AS SHOWN, UNLESS OTHERWISE NOTED. PROVIDE SCH. 40 PVC WITH SOLVENT CEMENT JOINTS FOR ALL CONDENSATE DRAIN PIPING. ALL HORIZONTAL CONDENSATE DRAIN PIPING SHALL BE SLOPED AT 1% MINIMUM. ALL CONDENSATE DRAIN CONNECTIONS TO EQUIPMENT SHALL INCLUDE A MIN. 4" DEEP P-TRAP WITH CLEAN-OUT PLUG. CONDENSATE DRAIN PIPING SHALL SUPPORTED WITH MIRO IND. MODEL 3R PIPE STANDS OR EQUAL. CONDENSATE DRAIN PIPING SIZING, INSTALLATION AND TERMINATION SHALL COMPLY WITH ALL APPLICABLE CODES. HEAT TRACE ALL EXTERIOR CD.
- SUPPLY & RETURN DUCT CONNECTIONS TO EQUIPMENT SHALL INCLUDE CANVAS FLEXIBLE DUCT CONNECTORS. LOCATE FLEXIBLE DUCT CONNECTORS MAXIMUM 12" BELOW BOTTOM OF ROOF DECK FOR VERTICAL DUCT DROPS FROM ROOF MOUNTED EQUIPMENT.
- ALL DUCTWORK RECTANGULAR OR ROUND SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED EXTERNALLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. EXTERNAL DUCT INSULATION (DUCT WRAP) SHALL BE FIBERGLASS DUCT WRAP WITH VINYL OR FSK FACING. DUCT WRAP SHALL HAVE A K-FACTOR OF .26 AT 75 DEG. F MEAN. A DENSITY OF 1.0 LB./C.F AND A MINIMUM 8.0 INSTALLED R-VALUE.
- INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND THE DESCRIBED METHODS IN THE MOST RECENT EDITION OF SMACNA'S DUCT APPLICATION STANDARD. E/A DUCT SHALL NOT BE INSULATED.
- REPLACE ALL HVAC EQUIPMENT FILTERS WITH NEW 2" PLEATED THROW-AWAY FILTER AT COMPLETING OF THE JOB PLUS TWO ADDITIONAL FILTERS TURN OVER TO OWNER.
- THE RETURN AIR SMOKE DETECTOR IN THE MAIN RETURN AIR DUCT, FACTORY FURNISHED, CONTRACTOR TO INSTALL IN ACCORDANCE WITH APPLICABLE CODES. THE REMOTE INDICATOR/TEST STATION FOR EACH SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL SMOKE DETECTOR AND REMOTE INDICATOR/TEST STATION WIRING AND CONDUIT NOT FACTORY INSTALLED SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SMOKE DETECTOR AND THE REMOTE INDICATOR/TEST STATION SHALL BE INTERLOCKED WITH THE AC CONTROLS TO AUTOMATICALLY SHUT DOWN THE UNIT UPON SENSOR ACTIVATION OR REMOTE INDICATOR/TEST STATION USE. SEE THE ELECTRICAL DRAWINGS FOR CLARIFICATION.
- FINAL TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH AABC STANDARDS. THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT COMPANY. THE COMPANY SHALL BE EQUIPPED AND HAVE THE QUALIFIED TECHNICAL PERSONNEL AS REQUIRED BY AABC OR NEBB. THE AIR BALANCE REPORT SHOWS DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT. DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.
- SYSTEM SHALL BE INSTALLED TO MEET IMC 2015, KBC 2018, AND IECC 2015.

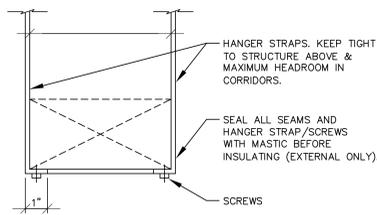
LOUVER SCHEDULE		
DESIGNATION	L-1	L-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL #	ESJ-401	ECD-401
SIZE	18x12	18x18
MATERIAL	EXT. ALUMINUM	EXT. ALUMINUM
TYPE	EXHAUST	INTAKE
CFM, SP	600 CFM, 0.1"SP	600 CFM, 0.1"SP
NOTES:	1,2,3,4,5	1,2,3,4,5,6
NOTES:	<ol style="list-style-type: none"> PROVIDE INSECT SCREEN AND BIRD SCREEN. COLOR BY ARCHITECT. STORM PROOF. BACKDRAFT DAMPER. PROVIDE MOTORIZED DAMPER. DO NOT EXCEED 805 FPM. 	



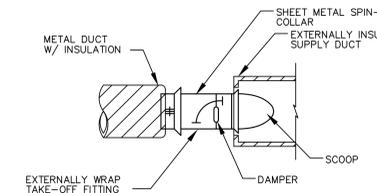
3 REFRIGERATION LINE DETAIL
N.T.S.

GENERAL MECHANICAL NOTES

- PROVIDE ALL LABOR, MATERIAL, AND EQUIP. REQUIRED FOR THE COMPLETION & OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES - ASHRAE, SMACNA, NFPA, EPA, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.
- ACCESS PANELS ARE REQUIRED IN WALLS, FLOORS, AND SUSPENDED CEILING (EXCEPT LAY-IN TYPE) FOR ACCESS TO ALL UNITS, VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. PANELS SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFLECT ALSO TO ARCHITECTURAL WALL INTERIORS, SECTIONS, EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS, AND OTHER DETAILS OF THESE DOCUMENTS.
- ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL "UL" RATED ASSEMBLIES, FIRE, AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- DUCTWORK AND PIPING SHOWN ON THE PLANS ARE DIAGRAMMATIC, AND MIGHT NOT SHOW ALL BENDS, OFFSETS, ROUTING, AND FITTINGS NECESSARY FOR THE INSTALLATION OF THE WORK AS INTENDED. ANY SUCH ADDITIONAL BENDS, OFFSETS, ROUTING, OR FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK UNTIL SITE CONDITIONS ARE VERIFIED.
- EQUIPMENT, FIXTURES, AND ACCESSORIES SHALL NOT BE SUPPORTED FROM CEILING, SOFFITS, NEUTRAL PIERS, PIPING, DUCTWORK, ROOF DECK, LATERAL BRACING, BRIDGING OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM STRUCTURE WHICH HAS BEEN APPROVED FOR SUPPORT.
- THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH ALL OTHER TRADES IN THE LAYING OUT AND INSTALLATION OF THE WORK, PRIOR TO FABRICATION AND INSTALLATION OF THE EQUIPMENT.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN THE CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION FOR CLARIFICATION.
- DUCT DIMENSIONS INDICATED ARE INSIDE CLEAR.
- ALL DUCT AND PIPE PENETRATIONS OF RATED WALLS AND FLOORS (IF ANY) SHALL BE FIRESTOPPED.
- ALL SUPPLY AND RETURN DUCTS SHALL HAVE EXTERNAL INSULATION.
- CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- CONTRACTOR TO COORDINATE ALL ELECTRICAL CONDUIT AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES AND EXISTING CONDITIONS.
- ALL DUCTWORK EXCEPT FLEXIBLE DUCTWORK SHALL BE GALVANIZED SHEET METAL. FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA - "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE, OR SAG.
- ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. DUCT INSULATION SHALL COMPLY WITH ALL APPLICABLE ASHRAE AND SMACNA STANDARDS.
- MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING & KINKING.
- ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH ENGINEER AND SHALL BE FLASHED AND SEALED WEATHERTIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY ARCH./OWNER.
- MAINTAIN MIN. 10' BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE, PLUMBING, VENT, ETC.
- ALL CONTROL WIRING & CONDUIT SHALL COMPLY WITH NEC.
- ROUTE ALL CONDENSATE DRAINS TO NEAREST FLOOR DRAIN OR MOP SINK.



2 DUCT HANGING DETAIL
N.T.S.



4 DUCT SPIN-IN DETAIL
N.T.S.

AIR HANDLING UNIT SCHEDULE				
DESIGNATION	AHU-1	AHU-2		
MANUFACTURER	LENNOX	LENNOX		
MODEL #	CBX32M-060-230-601	CBX32M-060-230-601		
HEATING CAPACITY	68,240 BTUH	68,240 BTUH		
ELECTRIC HEATERS	20KW, 2 STAGES	20KW, 2 STAGES		
SP IN WC (HEATING)	0.20"	0.20"		
SP IN WC (COOLING)	0.50"	0.50"		
AIRFLOW (HEATING)	2,000 CFM	2,000 CFM		
AIRFLOW (COOLING)	2,000 CFM	2,000 CFM		
MAX. DIMENSIONS, WEIGHT	21.5"Wx28.75"Dx58.5"L, 206 LBS	21.5"Wx28.75"Dx58.5"L, 206 LBS		
MOTOR (ECM)	3/4 HP	3/4 HP		
MIN. CKT. AMPACITY	96 AMPS	96 AMPS		
VOLTS/PHASE/HZ	240/1/60	240/1/60		
MAX. HACR C/B	110 MOCP	110 MOCP		
EVAPORATOR COIL	CASED HEAT PUMP COIL	CASED HEAT PUMP COIL		
SEE NOTES:	1-10	1-10		

NOTES:
 1. INSTALL 24V, 40VA CONTROL POWER TRANSFORMER.
 2. INSTALL CONDENSATE DRAIN AS SHOWN ON DRAWINGS.
 3. INSTALL MANUFACTURER'S STANDARD PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER CAPABILITY.
 4. PROVIDE SINGLE POINT CONNECTION KIT FOR AIR HANDLER FAN, STRIP HEATERS, AND CONTROL POWER.
 5. PROVIDE SMOKE DETECTORS DOWNSTREAM OF FILTERS AND BEFORE ANY BRANCH IN RETURN AIR SYSTEM OF MORE THAN 2000 CFM. SMOKE DETECTORS SHALL BE WIRED SO AS TO SHUT DOWN AIR DISTRIBUTION SYSTEM UPON ACTIVATION AND ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL AT AN APPROVED LOCATION. SMOKE DETECTOR TROUBLE CONDITIONS SHALL ACTIVATE A VISIBLE OR AUDIBLE SIGNAL IN AN APPROVED LOCATION AND SHALL BE IDENTIFIED AS AN AIR DUCT DETECTOR TROUBLE.
 6. FLEXIBLE DUCTS AND CONNECTORS SHALL COMPLY WITH THE REQUIREMENTS OF UL 181; DUCT COVERINGS, LININGS AND VIBRATION ISOLATION CONNECTORS; DUCT TAPE AND PANELS UTILIZED IN DUCT CONSTRUCTIONS SHALL HAVE FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS.
 7. THE INSTALLATION OF ALL HEATING, VENTILATING AND AIR-CONDITIONING SYSTEMS (HVAC), WHETHER IN EXISTING OR NEW BUILDING CONSTRUCTION SHALL BE PERFORMED BY A LICENSED KENTUCKY MASTER HVAC CONTRACTOR.
 8. PROVIDE 24" MINIMUM FRONT CLEARANCE PER KY BUILDING CODE.
 9. UPFLOW, HORIZONTAL CONVERTIBLE.
 10. FULL SIZE DRAIN PAN UNDERNEATH, FLOAT CONTROL INTERLOCK.

GRILLE & DIFFUSER SCHEDULE									
MARK	MANUFACTURER TYPE & MODEL	DEVICE SIZE	MAX CFM	S.P.	QBD	COLOR	MOUNTING	NOTE	
E-6G	KRUEGER H4002	18x18	6"φ	100	.03	NO	WHITE	GYPSUM ALUMINUM	3,5,8
E-8G	KRUEGER H4002	18x18	8"φ	200	.04	NO	WHITE, BAKED ENAMEL	GYPSUM ALUMINUM	3,5,8
E-10G	KRUEGER H4002	18x18	10"φ	400	.05	NO	WHITE	SURFACE	3,5,8
R-14	METALAIRES CC15TB	24x24	14"φ	800	.06	NO	WHITE	LAY-IN	2,9
R-16	METALAIRES CC15TB	24x24	16"φ	1300	.07	NO	WHITE	LAY-IN	2,9
R-2212	KRUEGER H4002	24x14	22x12	1200	.07	NO	WHITE	SURFACE	9
S-6	METALAIRES S800A-6	24x24	6"φ	100	.03	NO	WHITE	LAY-IN ALUMINUM	1,9
S-8	METALAIRES S800A-6	24x24	8"φ	200	.04	NO	WHITE	LAY-IN ALUMINUM	1,9
S-10	METALAIRES S800A-6	24x24	10"φ	400	.05	NO	WHITE	LAY-IN ALUMINUM	1,8
S-12	METALAIRES S800A-6	24x24	12"φ	600	.05	NO	WHITE	LAY-IN ALUMINUM	1,8
S-1610	KRUEGER H4002	18x12	16x10	400	.05	YES	WHITE	SURFACE	1,3,5,9
S-1810	KRUEGER H4002	20x12	18x10	600	.06	YES	WHITE	SURFACE	1,3,5,9

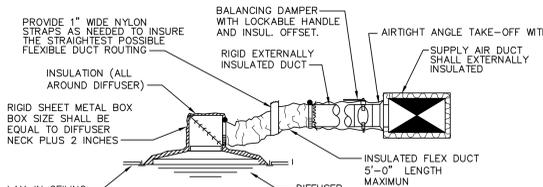
NOTES:
 1. PROVIDE FLEXMASTER SPIN-IN TAKE OFF WITH SCOOP & DAMPER. PROVIDE MANUAL VOLUME DAMPERS AND ADJUST DIFFUSERS AS SHOWN ON DRAWINGS.
 2. 1/2"x1/2"x1" CUBE CORE.
 3. DIFFUSER TO BE LOUVERED FACE.
 4. PROVIDE FIRE DAMPER.
 5. QBD TO BE OPERABLE FROM FACE.
 6. PROVIDE ADJUSTABLE DEFLECTION BLADES, VOLUME DAMPER, GASKETING AND DUCT EXTENSION BOX. SEE DETAILS.
 7. PROVIDE THREE WAY DIFFUSER ACCESSORY.
 8. ALUMINUM LAY IN RECESSED PLASTER FRAME.
 9. ALUMINUM.

HEAT PUMP UNIT SCHEDULE		
DESIGNATION	HP-1	HP-2
MANUFACTURER	LENNOX	LENNOX
MODEL #	XP14-060-230-2	XP14-060-230-2
SEER, MIN.	14.0	14.0
VOLTS/PHASE/HZ	240/1/60	240/1/60
MIN. CKT. AMPS	29.5 AMPS	29.5 AMPS
MAX. HACR C/B	50 MOCP	50 MOCP
COOLING CAPACITY	60,000 BTUH	60,000 BTUH
SIZE	35.5"x43.25"x42.25"H	35.5"x43.25"x42.25"H
WEIGHT	312 LBS	312 LBS
SEE NOTES:	1-8	1-8

NOTES:
 1. INSTALL ALL EXTERIOR CONTROL WIRING IN A FLEXIBLE WATERPROOF CONDUIT.
 2. INSULATE ALL REFRIGERATION LINES; REFRIGERANT SHALL BE R410A.
 3. INSTALL VIBRATION ISOLATORS. HEAVY DUTY INLET GRILLE. 5 YEAR COMPRESSOR WARRANTY.
 4. REFRIGERANT LINES SIZED PER MAN. SPECS.
 5. PROVIDE 4" THICK CONCRETE PAD. PROVIDE SNOW LEGS FOR HEAT PUMP UNIT.
 6. EXPANSION VALVE, LIQUID LINE FILTER DRYER.
 7. PROVIDE OUTDOOR THERMOSTAT KIT.
 8. COOLING CAPACITY BASED UPON 95/76F (DB/WB) AMBIENT AND 80/67F (DB/WB) EAT.

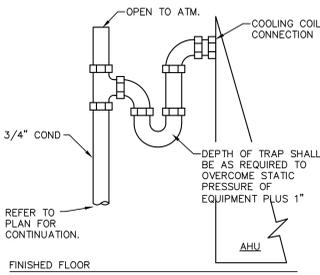
ENERGY RECOVERY VENTILATOR SCHEDULE	
DESIGNATION	ERU-1
MANUFACTURER	RENEW AIRE
MODEL #	HE-1X-INV
AIRFLOW (INTAKE)	600 CFM @ 0.50" SP
AIRFLOW (EXHAUST)	600 CFM @ 0.50" SP
MOTOR (HP)	2 EACH @ 3/4 HP
TOTAL EFFICIENCY, MIN.	71% WINTER/62% SUMMER
DIMENSIONS	42"Lx30"Wx71"H, 275 LBS
VOLTS/PHASE/HZ	240/1/60
MIN. CKT. AMPS	10.8 AMPS
MAX. HACR C/B	15A/2P

NOTES:
 1. PROVIDE 24/7 OPERATION. 36" FRONT CLEARANCE ACCESS.
 2. PROVIDE MERV 8, 2" PLEATED FILTERS.
 3. INSTALL VIBRATION ISOLATORS AND DOUBLE WALL HOUSING.
 4. SUPPLY WITH DISCONNECT AND SINGLE POINT WIRING.
 5. PROVIDE BACKDRAFT DAMPER. UNIT TO BE UL LISTED.
 6. PROVIDE POTENTIOMETER SPEED CONTROL.
 7. ECM MOTORS.
 8. SUSPEND FROM STRUCTURE ABOVE USING UNI-STRUT FRAME AND ALL THREAD RODS.

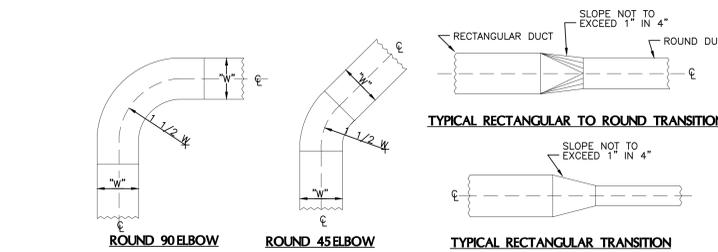


1 DIFFUSER RUNOUT DETAIL
N.T.S.

AIR BALANCE SCHEDULE				
DESIGNATION	SUPPLY (CFM)	RETURN (CFM)	EXHAUST (CFM)	FRESH AIR (CFM)
AHU-1	2,000	2,000	0	0
AHU-2	2,000	2,000	0	0
ERU-1	0	0	600	600
TOTAL	4,000	4,000	600	600



5 CONDENSATE TRAP
N.T.S.



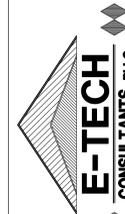
INSTALLATION NOTES

- ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
- DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES, AND MATERIAL AS SPECIFIED.
- THE DIMENSIONS SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
- DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING IN AN APPROVED MANNER.
- DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
- ACCESS PANELS SHALL BE INSTALLED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
- JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE SECURELY FASTENED, SEALED, AND MADE AIR TIGHT.

6 LOW PRESSURE DUCTWORK DETAILS
N.T.S.



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578 PARK AVENUE, LEXINGTON, KY 40502 (901) 234-4000

PROJECT NAME
 HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE

PROJECT ADDRESS
 2100 FONTAINE RD
 LEXINGTON, KY 40502

SHEET NAME

MECHANICAL
 SCHEDULES
 & DETAILS

PROJECT NO. 2220
 DATE JAN 18, 2023
 REVISIONS

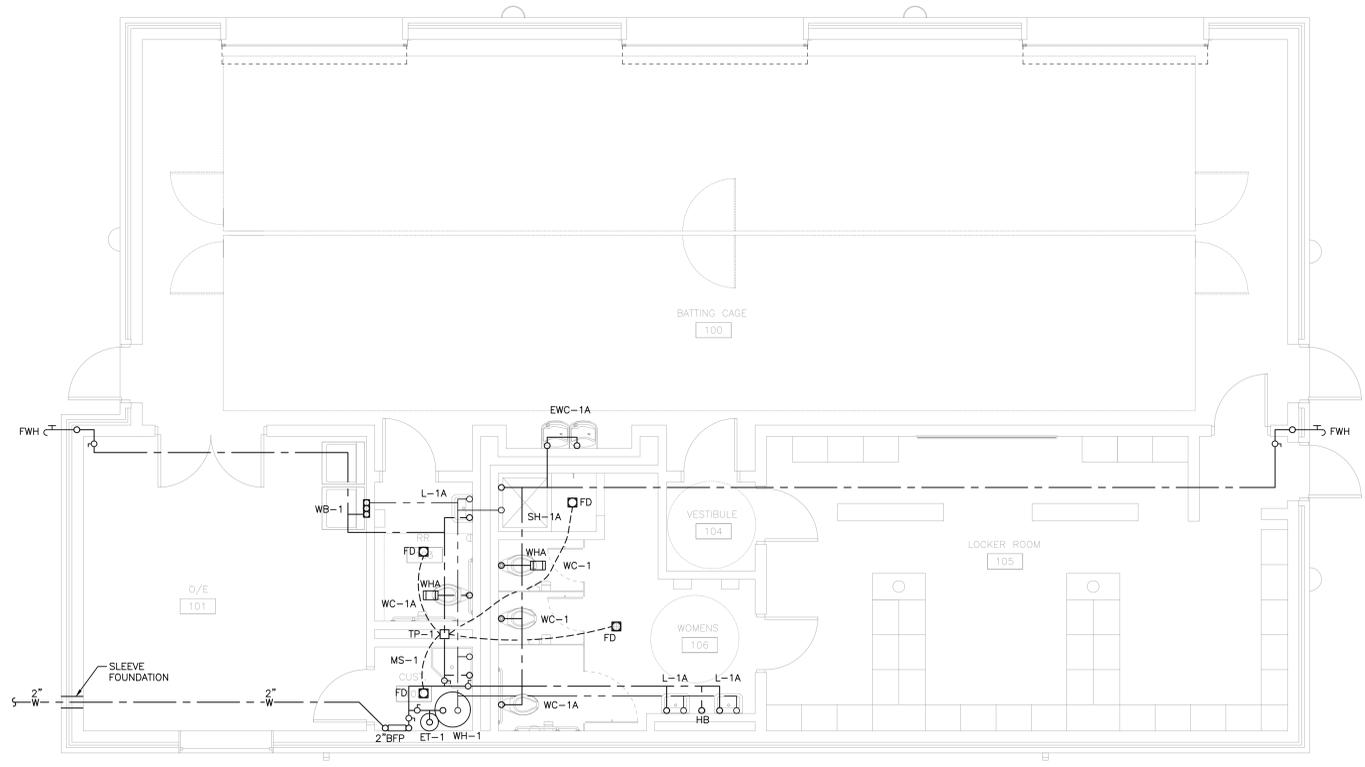
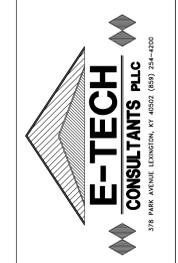
NO.	DESCRIPTION	DATE

SHEET NUMBER

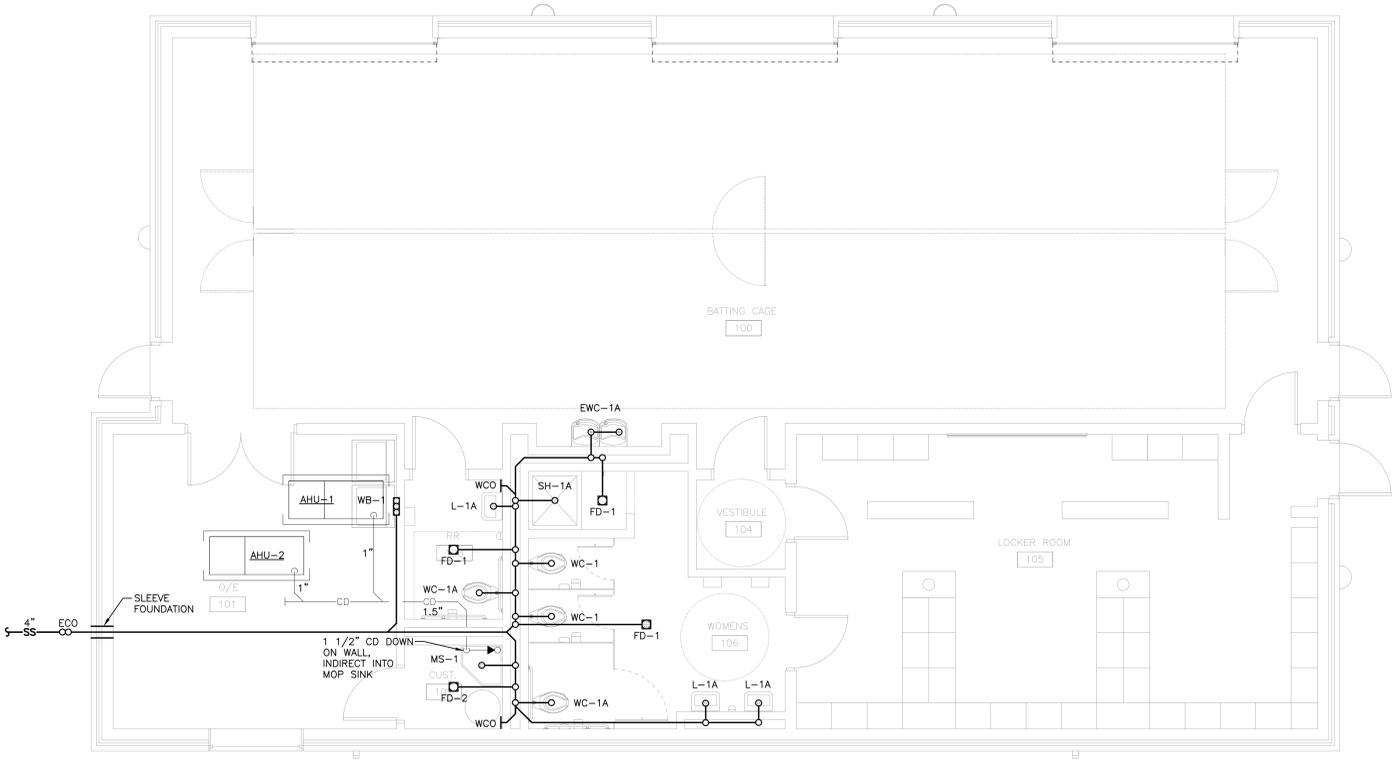
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A DOMESTIC WATER PLAN
 1/4" = 1'-0"



B WASTE & VENT PLAN
 1/4" = 1'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- D. CONTRACTOR TO COORDINATE NEW WORK SO AS NOT TO DAMAGE ANY NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. THIS CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS.
- I. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- J. PROVIDE ALL SUBMITTALS AS REQUIRED FOR PERMITTING AND FINAL APPROVAL BY LOCAL BUILDING AND HEALTH DEPARTMENT.
- K. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS TO PROVIDE A COMPLETE SYSTEM.
- L. ALL PLUMBING EQUIPMENT AND INSTALLATION SHALL CONFORM WITH THE KENTUCKY PLUMBING CODE AND SHALL BE INSTALLED BY CERTIFIED LICENSED MASTER PLUMBER.
- M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR AND OBTAINING ALL PERMITS.
- N. ALL UNDERSLAB SANITARY SEWER PIPING SHALL BE SCH 40 PVC ASTM DMB4-TB WITH SOLVENT WELDED JOINTS ASTM D2865-69. OWNER SHALL COORDINATE LOCATION AND INSTALLATION AND ROUTING WITH APPROVAL BY PLUMBING INSPECTOR. THIS SYSTEM TO TIE TO THE CITY SEWER MAIN.
- O. ALL ABOVE SLAB SANITARY SOIL, WASTE AND VENT PIPING SHALL BE THE SAME AS THAT SPECIFIED ABOVE (VTR PENETRATION IS LESS THAN 45'-0" FROM FINISHED FLOOR OF LEVEL ONE).
- P. ALL ABOVE SLAB DOMESTIC HOT AND COLD WATER PIPING SHALL BE COPPER TYPE K.
- Q. ALL DOMESTIC HOT AND COLD WATER PIPING FITTINGS SHALL BE INSULATED WITH 3/8" FLEXIBLE FOAM PLASTIC INSULATION WITH A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
- R. WHERE PIPING IS INSTALLED IN OUTSIDE WALLS CONTRACTOR SHALL INSURE THAT PIPING IS INSTALLED INSIDE BUILDING WALL INSULATION. NO WATER SUPPLY PIPING SHALL BE INSTALLED WHERE IT CAN FREEZE.
- S. UNIT FLOOR PLANS ARE TYPICAL. SEE WASTE RISER DIAGRAMS FOR FULL BUILDING PIPING.
- T. ROUTE DOMESTIC WATER IN BETWEEN JOISTS AND THROUGH JOIST WEBS AS REQUIRED.

CODED SHEET NOTES: ○

- ① MAIN UNIT BALL VALVE SHUTOFF. PROVIDE ACCESS DOOR AT 8'-6" AND COORDINATE LOCATION IN FIELD.
- ② 3/4" CWS & 3/4" HWS DOWN TO FIXTURE IN WALL.
- ③ 1/2" CWS & 1/2" HWS DOWN TO FIXTURE IN WALL.
- ④ 1/2" CWS DOWN TO FIXTURE IN WALL.

SHEET LEGEND

CO	CLEAN OUT
DW	DISHWASHER
ECO	EXTERIOR CLEAN OUT
FD	FLOOR DRAIN
FWH	FREEZER/ROOF WALL HYDRANT
KS-1	KITCHEN SINK
L-1	LAVATORY ONE
OR	OPEN RECEPTACLE
SH-1	SHOWER ONE
WB-1	WASHER BOX
WC-1	WATER CLOSET ONE

---	WASTE LINE
---	VENT LINE
---	HOT WATER
---	COLD WATER
---	RECIRCULATION LINE

PROJECT NAME
**HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE**

PROJECT ADDRESS
**2100 FONTAINE RD
 LEXINGTON, KY 40502**

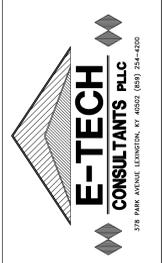
SHEET NAME
**PLUMBING
 PLANS**

PROJECT NO. 2220
 DATE JAN 16, 2023
 REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER

P1.0

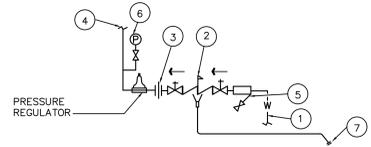


MARK	MFR & MODEL	TYPE	TRIM	SUPPLY	DRAIN	COLOR	MOUNTING	MISC.
BFP	WATTS LF909-09Y-0T-S	REDUCED PRESSURE		LINE SIZED				PROVIDE AIR GAP FITTING RELIEF TO FLOOR DRAIN
ECO	ZURN Z-1402-VP	HEAVY DUTY CLEANOUT EXTERIOR		LINE SIZE		CAST IRON	GROUND	PROVIDE TWO FOR 2-WAY W/ 18"x18"x6" CONCRETE SUPPORTING PAD AND VANDAL-PROOF SCREWS
ET-1	STATE ETC-7	EXPANSION TANK		3/4" MPT			PIPE	7.27 GALLON CAPACITY W/ STOP VALVE
EW-1A	HALSEY TAYLOR HTHB-HACBLS5-WF	ELECTRIC WATER COOLER (ADA) W/ BOTTLE FILLER		1/2" IPS C.W.	1 1/4" P-TRAP	STAINLESS STEEL	WALL	MOUNT LEFT ORIFACE AT ADA HEIGHT RIGHT ORIFACE AT NON-ADA. HYDROBOOST BOTTLE FILLING STATION
FD-1	ZURN MODEL ZN-415-78-DP-VP	4" DRAIN	ZURN Z-1022 TRAP PRIMER SUPPLY	1/2" IPS C.W.	4"	NICKLE-BRONZE	FLOOR	4" DIA. MEDIUM DUTY TOP AND VANDAL PROOF DECORATIVE TOP
FD-2	ZURN MODEL ZN-507-VP-AR	4" DRAIN	ZURN Z-1022 TRAP PRIMER SUPPLY	1/2" IPS C.W.	4"	NICKLE-BRONZE	FLOOR	7" DIA. MEDIUM DUTY TOP, VANDAL-PROOF, ACID RESISTANT
FWH	WOODFORD B85	FREEZELESS WALL HYDRANT		3/4" IPS C.W.		POLISHED BRASS	WALL, RECESSED	INTEGRAL ANTI-SIPHON BACKFLOW PREVENTER
HB	HOSE BIBB WOODFORD B26-1/2	HOSE BIBB		1/2" IPS C.W.		POLISHED BRASS	WALL, RECESSED	CHROME FINISH MOUNT 18" AFF
L-1A	AM. STANDARD 0355.012	V.C. LAVATORY (ADA)	SYMMONS S-20-2-G-LP	3/8" SPS W/ LOOSE KEY STOPS	1 1/4" P-TRAP	WHITE	WALL W/ CONCEALED ARM	INSULATE TRAP & SUPPLIES W/ TRUEBRO TRAP WRAP PROTECTIVE KIT. SLOAN BACK CHECKS ON FLOW CONTROL.
MS-1	MOP SINK JUST B-33213	SERVICE SINK 33"x33" CLIP CORNER	FIAT 830-AA FAUCET AND 832-AA HOSE BRACKET	3/4" IPS C.W. & HW	3"	STAINLESS STEEL	FLOOR	SS DOME & LINT STRAINER 899CC MOP HANGER, SS WALL SKIRTS
SH-1A	TILED SHOWER BY ARCHITECT	TILED WALL W/ SHOWER DRAIN	ZURN FD-2254-CP	ANTI-SCALD 3/8" IPS C.W. & H.W.	2"	WHITE	FLOOR	SS PRESS. MIX. VALVE, HOSE/SLIDE BAR, HANDESET SHOWER, VACUUM BREAKER, SHOWER CURTAIN, SS SOAP HOLDER, GRAB BAR, FOLDING SEAT, SHOWER PAN
TP-1	ZURN MODEL Z-1022	AUTOMATIC TRAP PRIMER		1/2" IPS C.W.				MOUNT 12" MINIMUM TO HORIZONTAL PIPE AT NEAREST FIXTURE
WB-1	SYMMONS W-602-X	RECESSED WASHER BOX	WATTS NO. 2T DU-CLOZ	1/2" IPS C.W. & HW		WHITE	WALL RECESSED	2" STAND PIPE W/ P-TRAP AND SERVICE STOPS
WC-1	AMERICAN STANDARD 2234.528	WATER CLOSET	SLOAN 8111MC SENSOR W/ MANUAL PUSH BUTTONS	1" IPS C.W.	4"	WHITE	FLOOR	ELONGATED, TOP SPUD, 15" HEIGHT, SEAT #5905.110, FLOOR MOUNT FLOOR OUTLET
WC-1A	AMERICAN STANDARD 3043.528	V.C. WATER CLOSET (ADA)	SLOAN 8111MC SENSOR W/ MANUAL PUSH BUTTONS	1" IPS C.W.	4"	WHITE	FLOOR	WHITE, MOUNT RIM ADA HEIGHT, ELONGATED, SEAT #5905.110, FLOOR MOUNT FLOOR OUTLET
WCO	ZURN MODEL Z-1446	WALL CLEANOUT		LINE SIZE		STAINLESS STEEL	WALL	STAINLESS STEEL COVER PLATE
WHA	ZURN MODEL Z1700-100	WATER HAMMER ARRESTOR		3/4"		STAINLESS STEEL	PIPE	WITH STOP VALVE
WH-1	AO SMITH ECT-80	80 GAL. ELECTRIC WATER HEATER	DUAL 4500W ELEMENTS 240V, 1P				FLOOR MOUNT W/ FULL SIZE DRAIN PAN	P&T RELIEF VALVE TO DRAIN PAN, 21 GPH RECOVERY, WATER HEATER SIZE 60.5"H x 22.5"DIA.

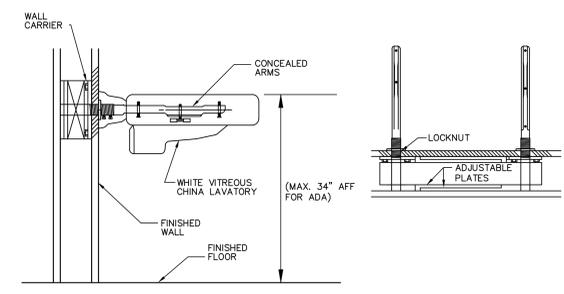
NOTE: ALL EXPOSED PLUMBING SHALL BE METAL, NO PVC.

DOMESTIC WATER ENTRANCE NOTES

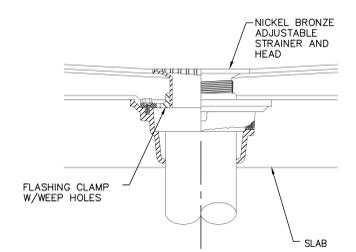
- 1 LINE SIZED DOMESTIC WATER FROM MAIN WATER LINE. REFER TO FLOOR PLANS FOR LOCATION
- 2 A.W.W.A. DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY EQUAL TO WATTS 719.
- 3 UNION, TYPICAL
- 4 SEE FLOOR PLANS FOR CONTINUATION.
- 5 STRAINER
- 6 PRESSURE GAUGE
- 7 SPILL BACKFLOW PREVENTER RELIEF TO FLOOR DRAIN



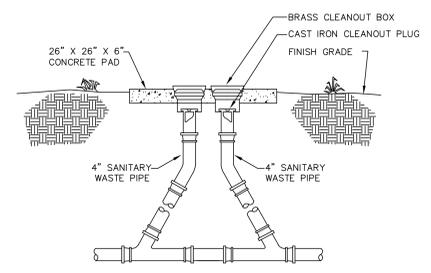
DOMESTIC WATER ENTRANCE DETAIL
 NO SCALE



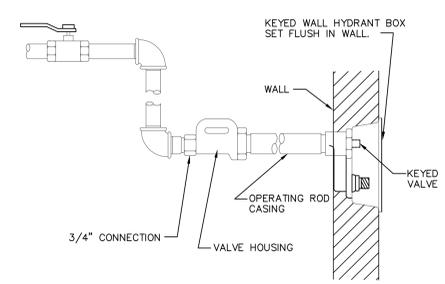
WALL MOUNTED LAVATORY DETAIL
 SCALE: N.T.S.



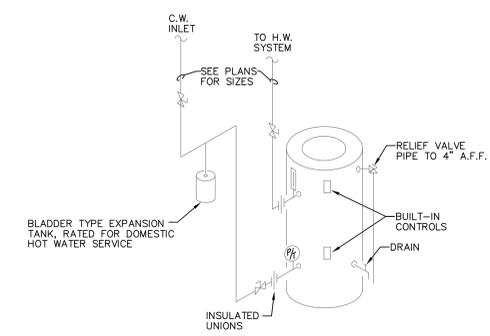
FLOOR DRAIN DETAIL
 SCALE: N.T.S.



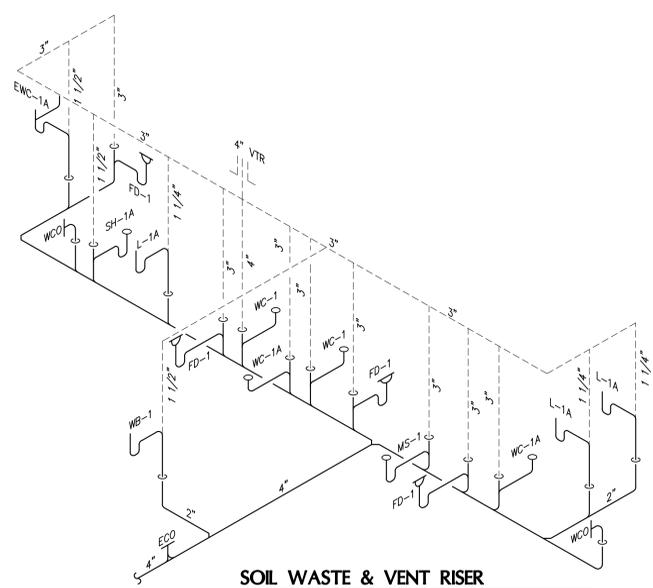
TWO-WAY EXTERIOR CLEANOUT DETAIL
 SCALE: N.T.S.



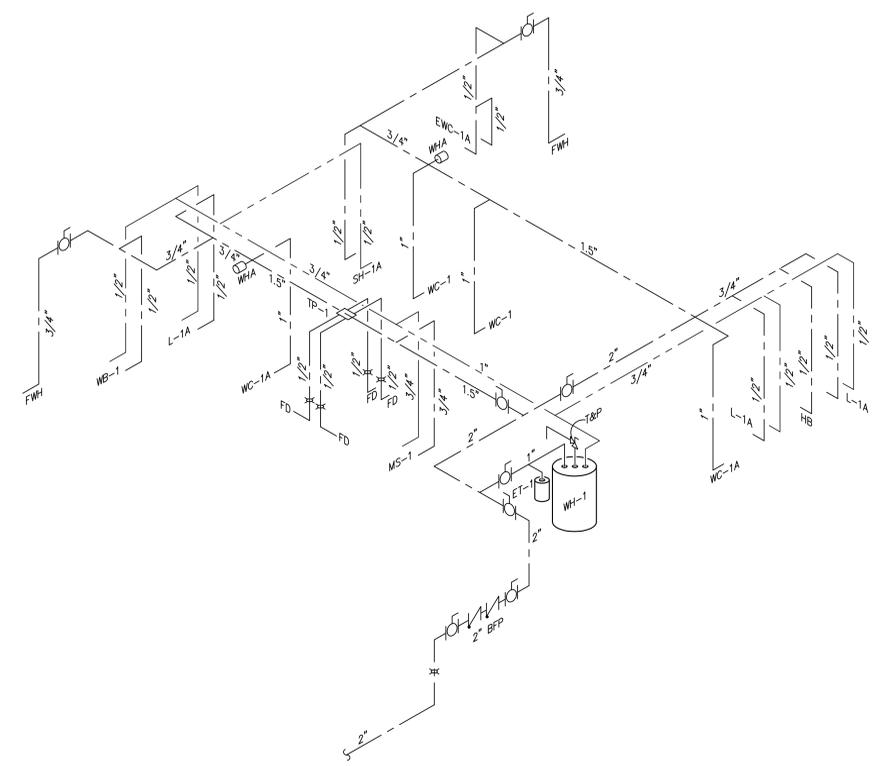
FREEZEPROOF WALL HYDRANT DETAIL
 SCALE: N.T.S.



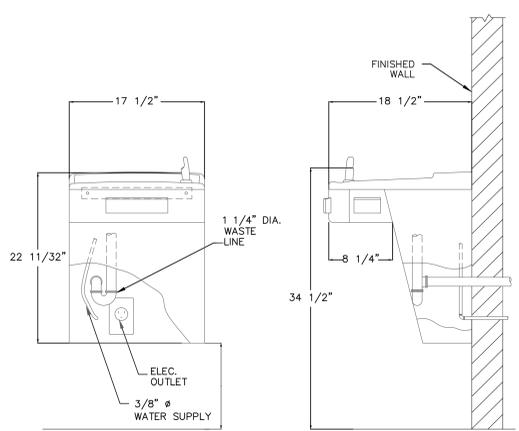
DOM. WATER HEATER DETAIL
 SCALE: N.T.S.



SOIL WASTE & VENT RISER
 SCALE: N.T.S.



DOMESTIC WATER RISER
 SCALE: N.T.S.



NOTE: IF COOLER IS SET IN ALCOVE OR NEAR CORNER, ALLOW 1-1/2" PER SIDE FOR VENTILATION.

ADA WATER COOLER DETAIL
 SCALE: N.T.S.

PROJECT NAME
 HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE

PROJECT ADDRESS
 2100 FONTAINE RD
 LEXINGTON, KY 40502

SHEET NAME
**PLUMBING
 SCHEDULES
 & DETAILS**

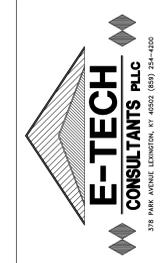
PROJECT NO.	2220	
DATE	JAN 16, 2023	
REVISIONS		
NO.	DESCRIPTION	DATE

SHEET NUMBER

P2.0



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ELECTRICAL LEGEND

POWER

- MAIN SWITCHBOARD, DISTRIBUTION BOARD OR MOTOR CONTROL CENTER
- PANELBOARD, SURFACE MOUNTED
- PANELBOARD, FLUSH MOUNTED
- ELECTRICAL MOTOR CONNECTION
- JUNCTION BOX, MOUNTED ON OR ABOVE ACCESSIBLE CEILING UON
- JUNCTION BOX, RECESSED WALL MOUNTED, +18" UON.
- JUNCTION BOX, FLOOR MONUMENT TYPE.
- DUPLEX CONVENIENCE RECEPTACLE OUTLET, MOUNT +18" AFF UON.
- DUPLEX RECEPTACLE OUTLET, MOUNT 18" AFF UON FOR COMPUTER LOAD.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE OUTLET, MOUNT +18" AFF UON. ONE DUPLEX FOR COMPUTER LOADS PLUS ONE DUPLEX FOR CONVENIENCE LOADS.
- DOUBLE DUPLEX ISOLATED GROUND RECEPTACLE OUTLET, MOUNT +18" AFF UON. SEE ALSO GENERAL NOTES 1 AND 2 ON THIS SHEET.
- DUPLEX CONVENIENCE RECEPTACLE OUTLET FLUSH MOUNTED IN CEILING.
- DUPLEX CONVENIENCE RECEPTACLE OUTLET MOUNTED ABOVE COUNTER, +42" UON.
- DUPLEX CONVENIENCE RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER
- WEATHERPROOF, DUPLEX CONVENIENCE RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER.
- COMBINATION ELECTRIC AND COMMUNICATION FLOOR BOX WITH RECESSED OUTLETS, AND FLUSH LIFT UP COVER FOR CONCEALED SERVICE. SEE "DV" AND "AV" FLOOR PLANS FOR ADDITIONAL LOCATIONS.
- PULLBOX, SIZE AND TYPE AS SPECIFIED BY NUMBERED NOTE
- SAFETY DISCONNECT SWITCH, 3 POLE UON
 A: 30A NON-FUSED AF: 30A FUSED
 B: 60A NON-FUSED BF: 60A FUSED
 C: 100A NON-FUSED CF: 100A FUSED
 D: 200A NON-FUSED DF: 200A FUSED
 E: 400A NON-FUSED EF: 400A FUSED
- ENCLOSED MAGNETIC STARTER, FVNR UON, NUMBER INDICATES NEMA SIZE (NEMA 1 UON)
- COMBINATION MAGNETIC STARTER, FVNR UON, NUMBER INDICATES NEMA SIZE (NEMA 1 UON)
- CONNECTION TO EQUIPMENT
- 2" CONDUIT SLEEVE
- SINGLE POLE TOGGLE SWITCH
- DOUBLE POLE TOGGLE SWITCH
- THREE-WAY TOGGLE SWITCH
- DIMMER SWITCH
- FAN SPEED CONTROL
- KEY OPERATED SWITCH
- MOTION SENSOR SWITCH
- TOGGLE SWITCH WITH PILOT LIGHT
- MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION AND CONTROL RELAY. INSTALL NEAR MOTOR. SEE SINGLE PHASE MOTOR CONNECTION DETAIL.
- CEILING MOUNTED MOTION SENSOR
- PHOTOCELL

RACEWAYS

- CONDUIT AND WIRE RUN CONCEALED IN WALL OR CEILING SPACE, OR RUN EXPOSED IN UNFINISHED SPACE. MIN. CONDUIT SIZE 3/4".
- CONDUIT AND WIRE RUN EXPOSED ON WALL OR CEILING IN FINISHED SPACE.
- CONDUIT AND WIRE RUN UNDER SLAB OR UNDERGROUND.
- CONDUIT AND WIRE HOMERUN, CONTINUOUS RUN TO PANELBOARD OR EQUIPMENT CABINET. HASH MARKS INDICATE NUMBER OF WIRES.
- TELEPHONE SYSTEM CONDUIT, MINIMUM 1-1/4", WITH PULLWIRE
- LOW VOLTAGE LIGHTING SYSTEM CONTROL CABLE. RUN CONCEALED IN WALL OR IN CEILING SPACE UON
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CABLE TRAY, LADDER TYPE, ALUMINUM CONSTRUCTION
- MULTI-OUTLET ASSEMBLY
- FIRE ALARM SYSTEM WIRING
- SURFACE METAL RACEWAY
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND ELECTRIC-PRIMARY
- UNDERGROUND COMMUNICATIONS
- STREET LIGHTING CIRCUIT

SIGNAL

- COMMUNICATIONS TELEPHONE TERMINAL BOARD, FIRE RATED
- FOUR PORT TELE/DATA OUTLET, MOUNT +18" AFF UON. INCLUDES 4-11/16" SQ. x 2-1/8" DEEP OUTLET BOX WITH SINGLE GANG RING AND 1"C. FROM BOX UP IN WALL AND RUN TO CABLE TRAY.
- SAME AS ABOVE EXCEPT TWO PORT DATA OUTLET.
- FLUSH FLOOR BOX, FOUR TELE/DATA OUTLET WITH 1"C. RUN UP IN WALL & TO CABLE TRAY.
- TELEPHONE OUTLET, INCLUDES OUTLET BOX, SINGLE GANG RING AND 1"C. FROM BOX UP IN WALL AND RUN TO CABLE TRAY ("W" = WALL MOUNTED +48", "P" = PUBLIC TELEPHONE, WALL MOUNTED +48", "F" = FIREMAN'S TELEPHONE, WALL MOUNTED +48")
- COMBINATION POKE THROUGH FITTING WITH DUPLEX RECEPTACLE AND TELE/DATA OUTLETS, 3/4"C. TO TELE/DATA ROOM ON SAME FLOOR. SEE ALSO POWER LEGEND THIS SHEET.
- SMOKE DETECTOR, SURFACE MOUNTED ON CEILING, TILE BRIDGE
- SMOKE DETECTOR, DUCT MOUNTED (SA = SUPPLY AIR)
- HEAT DETECTOR, SURFACE MOUNTED ON CEILING, TILE BRIDGE
- FIRE ALARM MANUAL PULL STATION, +48" AFF.
- FIRE ALARM VISUAL STROBE, WALL MOUNT AT +80" OR 6" BELOW CEILING TO BOTTOM OF LENS, WHICHEVER IS LOWER.
- FIRE ALARM COMBINATION HORN/STROBE, WALL MOUNT AT +80" AFF OR 6" BELOW CEILING TO BOTTOM OF LENS.
- FIRE ALARM CONTROL PANEL
- SPRINKLER SYSTEM FLOW SWITCH CONNECTION
- SPRINKLER SYSTEM TAMPER SWITCH CONNECTIONS
- SPRINKLER SYSTEM DOUBLE CHECK VALVE SWITCH CONNECTIONS.
- CONNECTION TO DUCT SMOKE DAMPER
- FIRE ALARM CONNECTION TO MAGNETIC DOOR HOLD OR MAGNETIC DOOR LOCK, PROVIDE SMOKE DETECTORS ON EACH SIDE OF DOOR OPENING.
- SMOKE DETECTOR WITH THERMAL ELEMENT
- ADA PUSH PAD DOOR OPERATOR, 44" AFF.
- SPRINKLER SYSTEM POST INDICATOR VALVE CONNECTIONS
- REMOTE ANNUNCIATOR PANEL, RECESSED
- FIRE ALARM BEAM DETECTOR WITH TRANS/RECEIVE HARDWARE AND REFLECTOR AT OPPOSITE END OF BEAM
- 8" ROUND LAY-IN SPEAKER WITH TILE BRIDGE AND BACKBOX. MOUNT AT 7"-9" AFF TO CENTER.
- 8" SQUARE SURFACE MOUNTED SPEAKER WITH BACKBOX AND ENCLOSURE. MOUNT AT 7"-9" AFF TO CENTER.

GENERAL LEGEND

- NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE
- NUMBERED GENERAL NOTES: REFERS TO NOTES ON THIS SHEET (E0.1)
- EQUIPMENT IDENTIFICATION TAG
- CABLE AND/OR RACEWAY TAG
 P = POWER, F = HV FEEDER, T = TELEPHONE
 SEE THIS SHEET FOR SCHEDULE
- LIGHT
 # OR a,b INDICATES SWITCH OR CIRCUIT CONNECTION
 A INDICATES FIXTURE SCHEDULE TYPE
- EMERGENCY LIGHT
- WALL MOUNTED LIGHT, SURFACE
- EMERGENCY WALL MOUNTED LIGHT
- RECESSED LIGHT
- EMERGENCY RECESSED LIGHT
- STRIP LIGHT
- EMERGENCY STRIP LIGHT
- EXIT SIGN - SINGLE/DOUBLE FACE
- HIGH BAY
- EMERGENCY HIGH BAY

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- C CONDUIT
- CKT CIRCUIT
- CB CIRCUIT BREAKER
- CT CURRENT TRANSFORMER
- EM EMERGENCY
- (E) EXISTING
- FLUOR FLUORESCENT
- FVNR FULL VOLTAGE NON-REVERSING
- F FUSED
- G, GND GROUND
- GFI GROUND FAULT INTERRUPTER
- HID HIGH INTENSITY DISCHARGE
- IC INTERRUPTING CAPACITY
- JB JUNCTION BOX
- LOP LIGHTING CONTROL PANEL
- MCC MOTOR CONTROL CENTER
- N, NEUT NEUTRAL
- (N) NEW
- NL NIGHT LIGHT (UNSWITCHED)
- NTS NOT TO SCALE
- OL OVERLOAD RELAY
- PNL PANELBOARD
- PB PUSHBUTTON SWITCH
- PC PHOTOCELL
- PIV POST INDICATING VALVE
- PT POTENTIAL TRANSFORMER
- (R) EXISTING RELOCATED
- RS RIGID STEEL
- SMR SURFACE METAL RACEWAY
- SN SHEET NOTE
- SN TYPICAL
- UON UNLESS OTHERWISE NOTED
- VFD VARIABLE FREQUENCY DRIVE
- WP WEATHERPROOF
- XFMR TRANSFORMER

GENERAL NOTES

1. MINIMUM STANDARDS FOR ALL ELECTRICAL WORK SHALL BE THE LATEST REVISION OF THE NATIONAL ELECTRICAL CODE (NEC). WHENEVER AND WHEREVER OSHA, FEDERAL AND STATE LAWS, REGULATIONS AND DESIGN CRITERIA REQUIRE HIGHER STANDARDS THAN NEC, THESE LAWS, REGULATIONS, AND DESIGN CRITERIA SHALL BE FOLLOWED.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ANY WORK RELATING TO THOSE CONDITIONS ARE PERFORMED.
3. UNLESS INDICATED OTHERWISE, INSTALL ALL WIRING IN RIGID METAL CONDUIT, ELECTRICAL METALLIC TUBING, FLEXIBLE CONDUIT OR SURFACE METAL RACEWAY AS SPECIFIED. ALL CONDUIT SHALL BE 3/4" OR LARGER.
4. DO NOT INSTALL ELECTRICAL METALLIC TUBING UNDERGROUND, ON GRADE OR IN WET LOCATIONS, INHAZARDOUS AREAS, OR FOR CIRCUITS OPERATING AT MORE THAN 600 VOLTS. METALLIC CONDUIT BURIED IN GROUND SHALL BE TREADED RIGID STEEL CONDUIT ONLY. SCHEDULE 40 PVC MAY BE USED UNDERGROUND OR BELOW SLAB ON GRADE PROVIDED ALL RISERS THROUGH THE SLAB ARE MADE WITH RIGID STEEL CONDUIT.
5. UNLESS INDICATED OTHERWISE, PROVIDE NO. 12 AWG THWN OR LARGER FOR ALL BRANCH CIRCUIT CONDUCTORS. ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER.
6. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED FOR THE APPLICATION FOR WHICH IT IS UTILIZED.
7. ALL CONDUIT SHALL BE INSTALLED CONCEALED EXCEPT IN DESIGNATED MECHANICAL ROOMS OR UNLESS INDICATED OTHERWISE HEREIN. EXPOSED SURFACE MOUNTED CONDUIT SHALL BE OTHERWISE REQUIRED IT SHALL BE TYPE SMR, PAINTED TO MATCH FINISH ON WHICH IT IS INSTALLED.
8. A SEPARATE, INSULATED EQUIPMENT GROUND WIRE SHALL BE RUN CONTINUOUS TO ALL EQUIPMENT, LIGHTING FIXTURES AND RECEPTACLES.
9. UNLESS INDICATED OTHERWISE, ALL INTERIOR AND EXTERIOR WIRING DEVICES SHALL BE INSTALLED FLUSH IN WALL. ELECTRICAL BOX LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS DIMENSIONED. COORDINATE LOCATION WITH EQUIPMENT SERVED, ELEVATIONS AND DIMENSIONED FLOOR PLANS.
10. ALL EQUIPMENT DISCONNECT SWITCHES, MOTOR STARTERS, PUSHBUTTON STATIONS, PANELBOARDS AND SWITCHBOARDS SHALL BE CLEARLY IDENTIFIED USING ENGRAVED LAMACOID PLATES AS SPECIFIED.
11. UNLESS INDICATED OTHERWISE, LOCATE STARTER WITHIN SIGHT OF THEIR ASSOCIATED MOTORS. WHERE STARTER IS NOT WITHIN SIGHT OF MOTOR, PROVIDE A DISCONNECT DEVICE WITHIN SIGHT OF THE MOTOR.
12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING TO ALL MOTORS AND ALL LINE VOLTAGE FEEDERS TO ALL FACTORY CONTROL PANELS FURNISHED UNDER DIVISION 15. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE MOTOR STARTERS (3-PHASE) OR MOTOR RELAYS (SINGLE PHASE) AND DISCONNECTS FOR ALL MECHANICAL EQUIPMENT WHICH HAS NOT BEEN SPECIFIED TO HAVE FACTORY CONTROL PANELS OR FACTORY-MOUNTED MOTOR CONTROLS.
13. IDENTIFY CIRCUITS CONTAINED IN EACH JUNCTION BOX ON EXTERIOR COVER WITH A PERMANENT MARKER, TAG EACH CONDUCTOR INSIDE.
14. CHECK WITH OTHER TRADES ON SCOPE OF THEIR WORK AND COORDINATE ON ALL LOCATIONS OF VARIOUS ITEMS OF EQUIPMENT AND OUTLETS BEFORE THEY ARE FINALLY PLACED AND CONNECTED. RELOCATION OF MATERIAL OR EQUIPMENT NECESSITATED BY FAILURE TO COORDINATE WORK SHALL BE AT NO COST TO THE OWNER.
15. PROVIDE FIRESTOPPING AT ALL FIRE SEPARATION WALLS AND FLOOR PENETRATIONS.
16. WHERE TWO SWITCHES ARE SHOWN TO CONTROL A SINGLE OR GROUP OF LIGHT FIXTURES, DUAL SWITCHING SHALL BE PROVIDED, ALL CENTER OR CENTER PAIR OF LAMPS SHALL BE SWITCHED TOGETHER AND ALL OUTSIDE PAIR OF LAMPS SHALL BE SWITCHED TOGETHER.
17. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED AND COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
18. ALL SPRINKLER SYSTEM VALVES SHALL BE SUPERVISED, COORDINATE LOCATION OF ALL VALVE SUPERVISORY AND FLOW SWITCHES WITH APPROVED SPRINKLER SYSTEM SHOP DRAWINGS PRIOR TO ROUGH-IN.
19. ALL EQUIPMENT, DEVICES AND FIXTURES LOCATED OUTDOORS SHALL BE UL LISTED FOR USE IN WET LOCATIONS OR INSTALLED IN A NEMA 3R ENCLOSURE.
20. ALL RECEPTACLES LOCATED ON BUILDING EXTERIOR, WITHIN 6' OF SINKS, ON ROOFS, ELEVATOR PITS OR AS OTHERWISE REQUIRED BY NEC SHALL BE PROVIDED WITH GROUND FAULT PROTECTION.

NOTES:

FOR MULTIPLE FEEDERS, SIZE OF EACH GROUND WIRE SHALL BE UPSIZED FOR CIRCUIT BREAKER SIZE PER SECTION 250-95:

C.B. SIZE	GROUND WIRE
400A	#2
600A	#1
800A	#1/0
1000A	#2/0
2000A	250MCM

PROJECT NAME
**HENRY CLAY HS
 SOFTBALL FIELD
 HOUSE**

PROJECT ADDRESS
**2100 FONTAINE RD
 LEXINGTON, KY 40502**

SHEET NAME

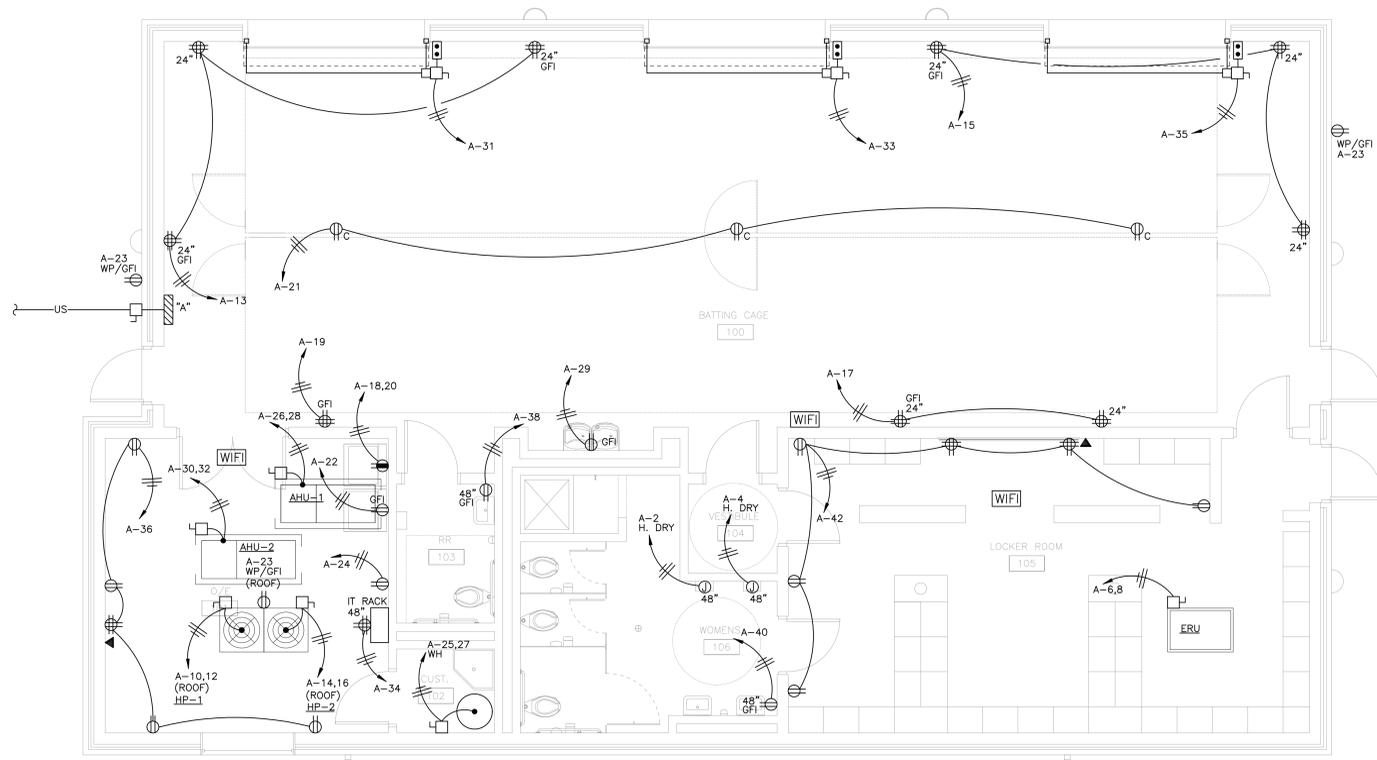
ELECTRICAL LEGEND

PROJECT NO. 2220
 DATE JAN 16, 2023
 REVISIONS

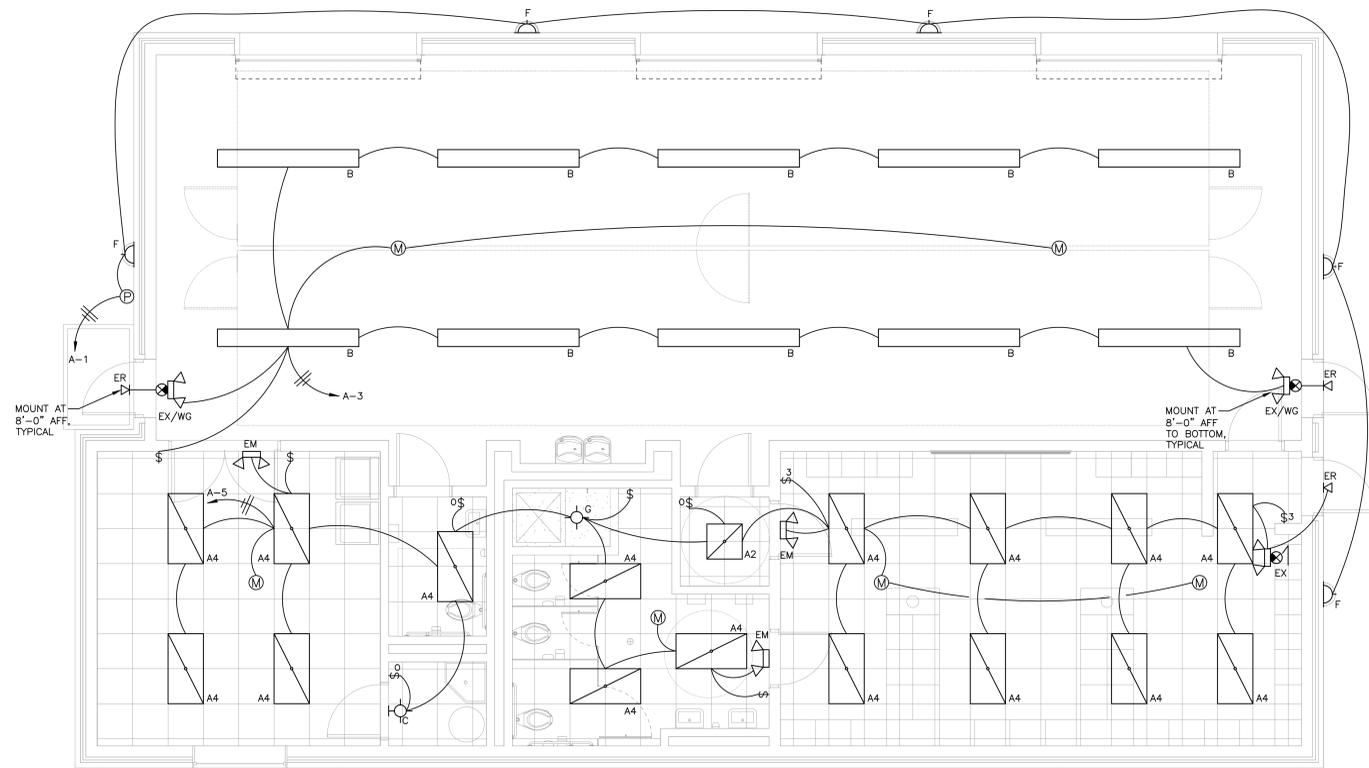
NO.	DESCRIPTION	DATE

SHEET NUMBER

E0.0



B POWER PLAN
1/4" = 1'-0"



A LIGHTING PLAN
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- D. CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY EXISTING OR NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. THIS CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS LEFT BY THE REMOVAL OF EQUIPMENT.
- I. SEE MECHANICAL PLANS FOR LOW VOLTAGE INTERLOCKING OF LOUVERS, DAMPERS, FANS, AND CONTROLS.

CODED SHEET NOTES:

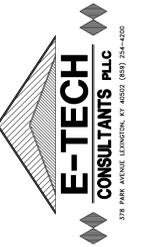
- ① COORDINATE OUTLETS IN THIS AREA WITH CASEWORK. REFER TO ARCHITECTURAL ELEVATIONS.

ELECTRICAL SHEET LEGEND

- Ⓛ DUPLEX RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- Ⓛ_{IS} ISOLATED DUPLEX RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- Ⓛ_{240V} SINGLE RECEPTACLE, 240V, MOUNT @ 18" AFF TO CENTER.
- Ⓛ_{GF} QUAD RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- Ⓛ_{GF} DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, MOUNT @ 18" AFF TO CENTER.
- Ⓛ_{GF} DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, LARGE CLEAR BUBBLE COVER
- Ⓛ_{6"} DUPLEX RECEPTACLE, MOUNT HORIZONTAL @ 6" ABOVE COUNTER TOP.
- Ⓛ_{JB} ELECTRICAL JUNCTION BOX
- Ⓛ_{DIS} ELECTRICAL DISCONNECT SWITCH A/V/P/H DENOTES AMPS, VOLTS, PHASE, HERTZ.
- Ⓛ_{MS} MOTOR RATED STARTER SWITCH
- Ⓛ_{DS} 0-10V DIMMING RLIGHT SYSTEM STATION
- Ⓛ_{WS} WALL BOX OCCUPANCY SENSOR
- Ⓛ_{CTV} CABLE TV OUTLET, MOUNT @ 18" AFF TO CENTER, PROVIDE PREMISE WIRING CONCEALED IN WALL.
- Ⓛ_{VO} SINGLE PORT VOICE OUTLET, MOUNT 18" AFF TO CENTER.
- Ⓛ_{2P} 2 PORT DATA/VOICE OUTLET, MOUNT 18" AFF TO CENTER.



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PROJECT NAME
HENRY CLAY HS
SOFTBALL FIELD
HOUSE

PROJECT ADDRESS
2100 FONTAINE RD
LEXINGTON, KY 40502

SHEET NAME
**LIGHTING &
POWER
PLANS**

PROJECT NO. 2220
DATE JAN 16, 2023
REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER
E1.0

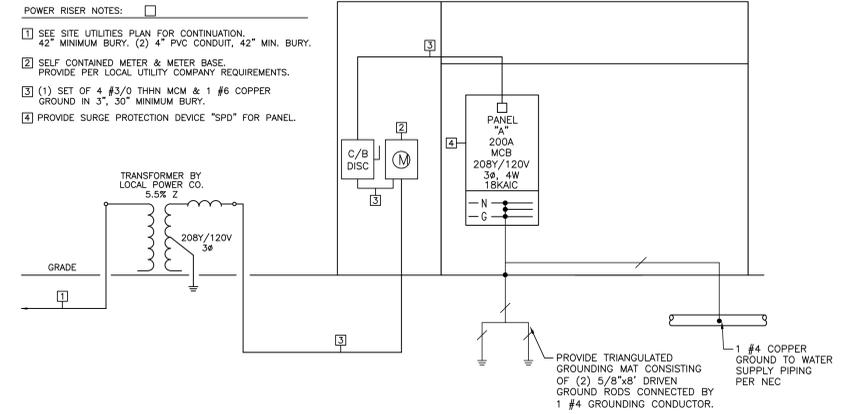
LIGHT FIXTURE SCHEDULE								
TYPE	SYMBOL	MANUFACTURER	MODEL NUMBER	VOLTS	QUA.-LAMP	MOUNTING	WATTS	REMARKS
A2		LITHONIA	2BLT2-48L-SDSM-GZ1-LP840	120	4900 LUMEN LED @ 400K	LAY-IN	44	SAME AS FIXTURE "A" EXCEPT 2'x2'
A4		LITHONIA	2BLT4-48L-SDSM-GZ1-LP840	120	4900 LUMEN LED @ 4000K	LAY-IN	38	2x4 VOLUMETRIC RECESSED LED TROFFER, 1% DIMMING (MIN), SQUARE SMOOTH DIFFUSER
A4E		LITHONIA	2BLT4-48L-SDSM-GZ1-LP840-EL7L	120	4900 LUMEN LED @ 4000K	LAY-IN	38	SAME AS FIXTURE "A" EXCEPT WITH 90 MIN. EMERGENCY BATTERY
B		LUMINAIRE	VFP12-8-LED-50W-WHP-4000K-120-OP-COLOR	120	9,600 LUMEN LED, 4000K	SURFACE	100	1x8 HIGH PERFORMANCE LED, DAMP RATED, 0-10V DIMMING
EM		LITHONIA	ELM2-LED-LTP	120	(2) 1.9W LED	SURFACE	6W	EMERGENCY LIGHTING UNIT (2) LAMPS WITH 90 MIN. EMERGENCY OPERATION, HIGH CAPACITY
ER		LITHONIA	ELMRE-LP220L	120	(2) LED	SURFACE	4	DOUBLE REMOTE HEAD, WET LOCATION, 90 MIN. EMERGENCY OPERATION
EX								
EX/WG								
F								

NOTE: COLUMBIA, DAYRITE, KENAL, LUSIO, AND HOLOPHONE EQUAL. E.C. TO PROVIDE LAMPS FOR ALL FIXTURES. EMERGENCY LAMPS SHALL NOT OPERATE AS A NIGHT LIGHT UNLESS SO NOTED ON PLANS. EMERGENCY BATTERY PACK SHALL BE WIRED WITH AN UNSWITCHED HOT LEG. ALL INTERIOR LED SHALL BE 4000K AND ALL EXTERIOR LED SHALL BE 5000K.

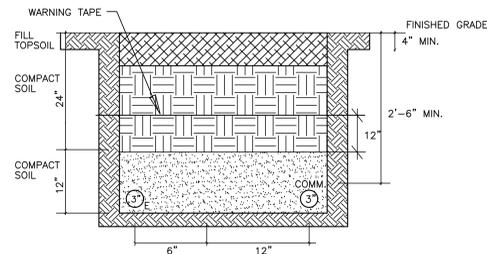
NOTE: E.C. TO PROVIDE LAMPS FOR ALL FIXTURES. EMERGENCY LAMPS SHALL NOT OPERATE AS A NIGHT LIGHT UNLESS SO NOTED ON PLANS. EMERGENCY BATTERY PACK SHALL BE WIRED WITH AN UNSWITCHED HOT LEG. ALL LAMPS SHALL BE COOL WHITE, 4000K, (CRI 80+), IN ALL FIXTURES UNLESS OTHERWISE NOTED.

NOTE: ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING GRID.

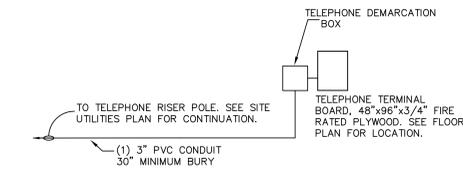
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



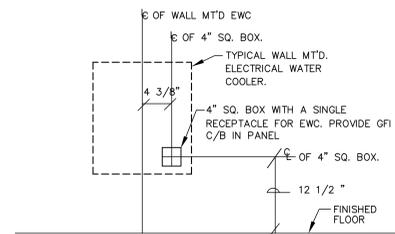
4 POWER RISER DIAGRAM



1 ELECTRIC/COMM TRENCH/BACKFILL DETAIL



2 TELEPHONE & COMM. RISER DETAIL



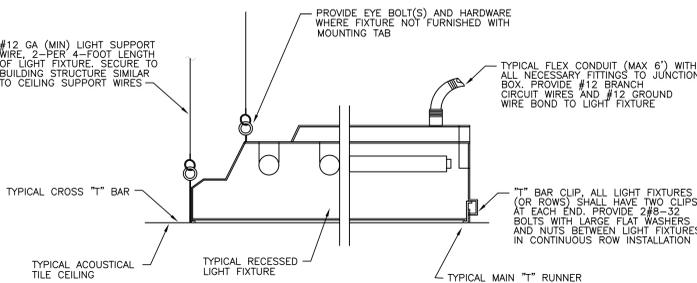
3 ELECTRIC WATER COOLER DETAIL

VOLTS (L-L)		208	MOUNTING SURFACE		BUS MATERIAL		COPPER							
VOLTS (L-N)		120	TYPE		TOP OR BOTTOM FEED?		TOP/BOTTOM							
PHASE		3	FEED THROUGH (Y/N)		GROUNDING BUS		YES							
WIRE		4	SERIES RATED (Y/N)		BRANCH BKRS.		BOLT-ON							
MLO		0	SHUNT TRIP MAIN (Y/N)		S.E. RATED (Y/N)		YES							
MCB		200	MINIMUM AIC RATING		NEUTRAL RATING (N)		100							
SOURCE		UTILITY	SOURCE FEEDER AMPS		LOCATION		HENRY CLAY SOFTBALL							
CIRCUIT BREAKER		WIRE & CONDUIT		PHASE LOADS		CIRCUIT BREAKER								
CODE	OKT #	AMP	POLES	LOAD SERVED	KVA	KA	KB	KC	LOAD SERVED	WIRE & CONDUIT	POLES	AMP	OKT #	CODE
1	1	30	2	BUILDING LIGHTING	1.0	1.0	1.0	0.0			1	30	2	2
1	3	20	1	LIGHTING	1.0			0.0			1	20	4	2
1	5	20	1	LIGHTING	1.0			0.0			1	20	6	2
1	7	20	1	LIGHTING	1.0			0.0			1	20	8	2
1	9	20	1	LIGHTING	1.0		0.5	0.0	HEAT PUMP HP3	#8 3/4"	2	50	10	5
1	11	20	1	LIGHTING	1.0		0.5	0.0	HEAT PUMP HP4	#8 3/4"	2	50	12	5
2	13	20	1	RECEPTACLES	0.0	4.5	0.0	4.5			1	20	14	5
2	15	20	1	RECEPTACLES	0.0	0.0	4.5	4.5			1	20	16	5
2	17	20	1	RECEPTACLES	0.0	0.0	0.0	0.0			1	20	18	4
2	19	20	1	RECEPTACLES	0.0	0.0	0.0	0.0			1	20	20	4
2	21	20	1	RECEPTACLES	0.0	0.0	0.0	0.0			1	20	22	4
2	23	20	1	RECEPTACLES	0.0	0.0	0.0	0.0			1	20	24	4
2	25	50	2	WATER HEATER	4.5	14.5	0.0	10.0	AIR HANDLING UNIT AHJ3	#5 1/2"	2	100	26	4
2	27	20	1	EWC RECEPPTS	1.4		11.4	10.0	AIR HANDLING UNIT AHJ4	#5 1/2"	2	100	28	4
2	29	20	1	EWC RECEPPTS	1.4		11.4	10.0			2	100	30	4
4	31	20	1	SPARE	0.0	10.0	0.0	0.0			1	20	32	4
4	33	20	1	SPARE	0.0	0.0	0.0	0.0			1	20	34	2
2	35	20	1	SPARE	0.0	0.0	0.0	0.0			1	20	36	2
2	37	20	1	SPARE	0.0	0.0	0.0	0.0			1	20	38	2
2	39	20	1	SPARE	0.0	0.0	0.0	0.0			1	20	40	2
2	41	20	1	SPARE	0.0	0.0	0.0	0.0			1	20	42	2

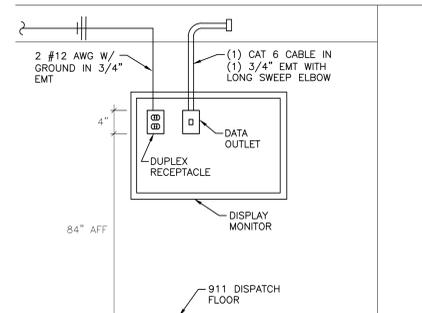
AMPS	CONNECTED KVA	DEMAND KVA	DEMAND AMPS
PANEL RATING @ 80% 47% SPARE CAPACITY	180	180	180
	86.0	70.8	46.7

CODE	CONN. LOAD BREAKDOWN	KVA	FACTOR	DEMAND KVA
1	LIGHTING	6.0	100%	6.0
2	RECEPTACLES	18.4	100/50%	10.2
3	EQUIPMENT	0.0	40%	0.0
4	HEATING	40.0	0%	0.0
5	COOLING	18.0	80%	14.4
6	MECHANICAL FANS	0.0	100%	0.0
7	PROCESS EQUIPMENT	0.0	50%	0.0
8		0.0	100%	0.0
9		0.0	100%	0.0
10	SURFED SECTIONS	0.0	100%	0.0
11		0.0	100%	0.0
CONNECTED KVA		74.4		30.6
DEMAND KVA				25.5
DEMAND AMPS				119.0

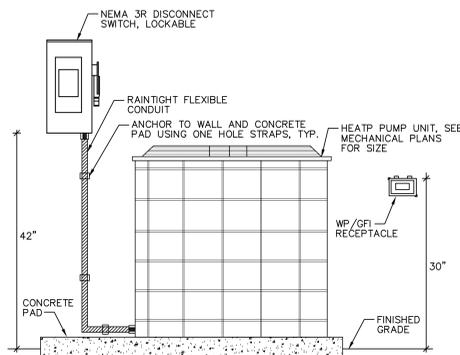
GENERAL NOTES:
PANEL LOAD SHOULD BE BALANCED WITHIN 10%
(*) INDICATES HIGH TYPE BREAKER FOR HVAC EQUIP.
(**) INDICATES SHORT TRIP BREAKER



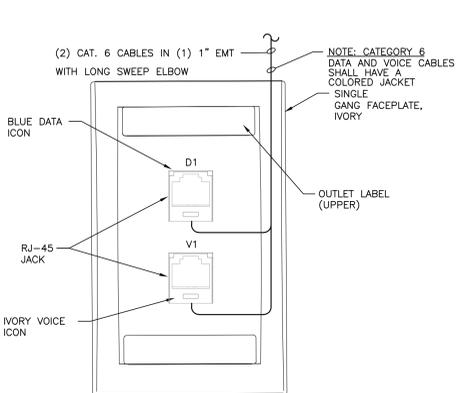
5 RECESSED LIGHTING DETAIL



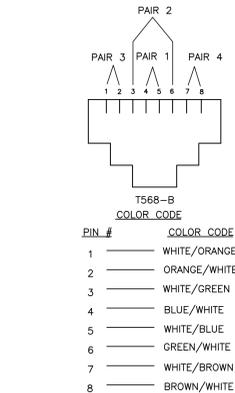
6 DISPLAY MONITOR DETAIL



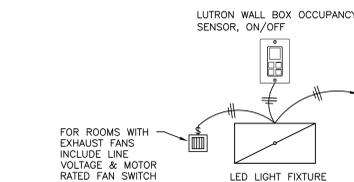
7 HEAT PUMP UNIT DISCONNECT SWITCH DETAIL



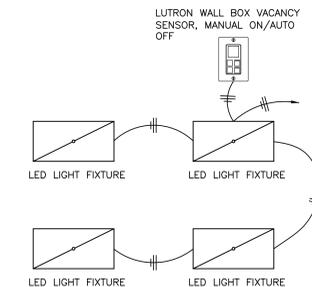
8 TWO PORT OUTLET DETAIL



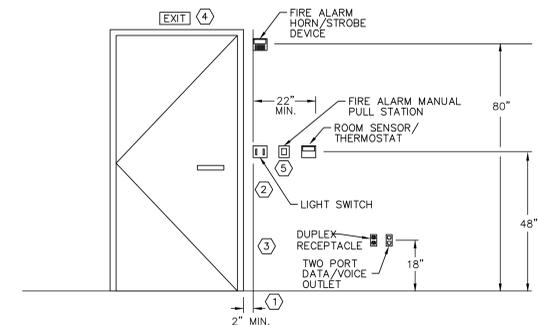
9 RJ45 JACK DETAIL



10 STORAGE & JANITOR'S CLOSET CONTROL DETAIL



11 TYPICAL OFFICE LINE CONTROL W/VACANCY

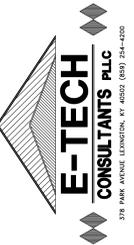


- MOUNT EDGE OF LIGHTING CONTROL DEVICE CLOSEST TO DOOR AT A DISTANCE OF TWO INCHES FROM THE EDGE OF THE FACE PLATE TO THE DOOR FRAME INCLUDING ALL APPLIED TRIM UNLESS OTHERWISE NOTED.
- MOUNT REMAINING DEVICES IN THE FOLLOWING SEQUENCE OF PRIORITY: HVAC CONTROL DEVICE, OTHER DEVICE UNLESS OTHERWISE INDICATED. MOUNT THE EDGE OF DEVICE OR DEVICE FACE PLATE TWO INCHES APART. PROVIDE BLOCKING AS NECESSARY IN THE WALL OR PROVIDE MANUFACTURED SUPPORTS SIMILAR TO CADDY "RB" SERIES OR EQUAL. ALL DEVICES TO BE MOUNTED WITH CENTER LINE AT HEIGHT INDICATED.
- COORDINATE MOUNTING HEIGHT OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DETAILS.
- INSTALL WALL MOUNTED EXIT SIGNS WITH BOTTOM EDGE OF SIGN TWO INCHES FROM TOP OF DOOR FRAME.
- WHEN SIGNAGE WITH TACTILE CHARACTERS IS PROVIDED, THE BOTTOM OF TACTILE SIGNAGE SHALL BE MOUNTED AT 50" AFF MINIMUM WITH THE TOP MOUNTED AT A MAXIMUM OF 60" AFF. PROVIDE A CLEAR SPACE OF 18" IN FRONT OF SIGNAGE. ALL OTHER PROVISIONS AND SPACINGS REQUIRED BY THE ADA SHALL BE FOLLOWED.

12 DEVICE MOUNTING COORDINATION



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PROJECT NAME
HENRY CLAY HS
SOFTBALL FIELD
HOUSE

PROJECT ADDRESS
2100 FONTAINE RD
LEXINGTON, KY 40502

SHEET NAME

ELECTRICAL
SCHEDULES
& DETAILS

PROJECT NO. 2220
DATE JAN 16, 2023
REVISIONS

NO.	DESCRIPTION	DATE

SHEET NUMBER

E2.0