ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE

Elizabethtown, Kentucky

for the

Elizabethtown Independent School District

620 N Mulberry St, Elizabethtown, Kentucky 42701
p 270.769.3381

BG # 00-000

RTA # 1834

rosstarrant architects

101 old lafayette avenue
lexington, kentucky 40502
p 859.254.4018
www.rosstarrant.com

enhancing education through great design

STRUCTURAL ENGINEER:
STRUCTURAL DESIGN GROUP, INC.
220 Great Circle Road, Suite 106 Nashville, Tennessee 37228
p 615.255.5537 f 615.255.1486

M.E.P. ENGINEER:
CMTA, INC.
2429 Members Way Lexington, Kentucky 40504
p 859.253.0892 f 859.231.8357

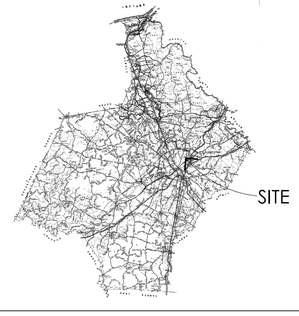
HARDWARE CONSULTANT:
CALVERT INDEPENDENT HARDWARE SPECIFICATIONS, LLC
307 Oakwood Circle Vine Grove, Kentucky 40175
p 502.930.2039

INDEX OF DRAWINGS

PROJECT SITE ADDRESS:

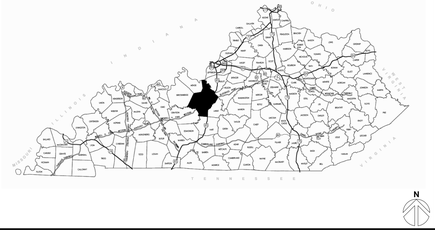
620 N Mulberry St,
Elizabethtown, Kentucky
42701

VICINITY MAP



CAMPUS MAP

PROJECT VICINITY MAP



rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

COVER SHEET
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

SHEET RELEASE

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SCHEMATIC DESIGN

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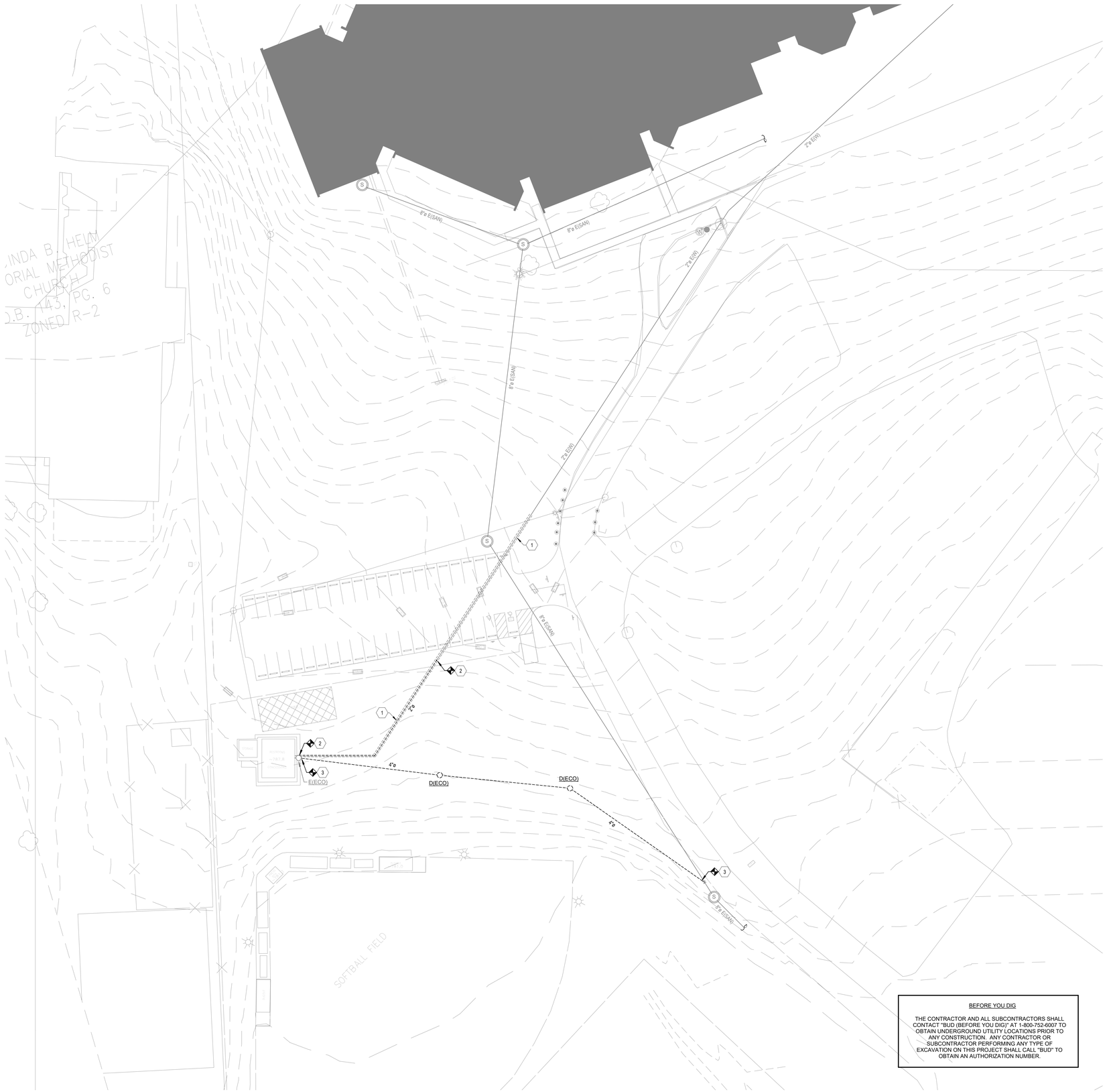
COVER SHEET

DATE ISSUED:
12/12/2018



TAGGED NOTES

1	EXACT LOCATION OF DOMESTIC WATER PIPING INDICATED BY DASHED LINES IS UNKNOWN. LOCATION SHOWN IS ASSUMED LOCATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE OF $20,000 TO LOCATE EXISTING PIPING.
2	DEMOLISH EXISTING DOMESTIC WATER PIPING BETWEEN POINTS INDCIATED TO ALLOW FOR NEW CONSTRUCTION. REFER TO SITE UTILITY NEW WORK PLAN.
3	DEMOLISH EXISTING SANITARY PIPING BETWEEN POINTS INDICATED TO ALLOW FOR NEW CONSTRUCTION. REFER TO SITE UTILITY NEW WORK PLAN.

S SITE UTILITY GENERAL NOTES - MECHANICAL

A	DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
B	CONTRACTOR SHALL CUT ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REFER TO CM SCOPING DOCUMENTS FOR PATCH AND REPAIR OF CONCRETE/ASPHALT/GRADE. ANY SUCH WORK NOT EXPLICITLY MENTIONED UNDER A SEPARATE CONTRACT IS TO BE INCLUDED IN THE CONTRACTOR'S BID.
C	FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
D	WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
E	PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST TWO WEEKS IN ADVANCE OF THE ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
F	LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKE FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
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SITE UTILITIES LEGEND

	EXISTING	DEMOLITION	NEW
OVERHEAD PRIMARY	EOP	DOP	OP
OVERHEAD SECONDARY	EOS	DOS	OS
OVERHEAD STREET LIGHTING	EOSL	DOSL	OSL
OVERHEAD TRAFFIC SIGNAL	EOTS	DOTS	OTS
OVERHEAD TELECOMMUNICATIONS	EOT	DOT	OT
OVERHEAD FIBER OPTIC	EOF	DOF	OF
OVERHEAD CATV	EOTV	DOTV	OTV
UNDERGROUND PRIMARY	EUP	DUP	UP
UNDERGROUND SECONDARY	EUS	DUS	US
UNDERGROUND STREET LIGHTING	EUSL	DUSL	USL
UNDERGROUND TRAFFIC SIGNAL	EUTS	DUTS	UTS
UNDERGROUND TELECOMMUNICATIONS	EUT	DUT	UT
UNDERGROUND FIBER OPTIC	EUF	DUF	UF
UNDERGROUND CATV	EUTV	DUTV	UTV
CHILLED WATER	CW	CW	CW
DOMESTIC WATER	W	W	W
GAS	GAS	GAS	GAS
HIGH PRESSURE SUPPLY	HPS	HPS	HPS
HIGH PRESSURE RETURN	HPR	HPR	HPR
PUMP DISCHARGE RETURN	PDR	PDR	PDR
SANITARY SEWER	SS	SS	SS
STORM	STORM	STORM	STORM
FIRE HYDRANT	F.H.	D(F.H.)	F.H.
WATER VALVE	WV	D(WV)	WV
EXTERIOR CLEANOUT	ECO	D(ECO)	ECO
SANITARY MANHOLE	S	D(S)	S
THRUST BLOCK	T.B.	D(T.B.)	T.B.

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD (BEFORE YOU DIG)" AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

UTILITY COMPANY CONTACTS

POWER COMPANY NAME	NAME	XXX.XXX.XXXX
TELEPHONE COMPANY NAME	NAME	XXX.XXX.XXXX
CABLE TELEVISION COMPANY NAME	NAME	XXX.XXX.XXXX
WATER & SEWER COMPANY NAME	NAME	XXX.XXX.XXXX
GAS COMPANY NAME	NAME	XXX.XXX.XXXX
FIRE CHIEF FIRE DEPARTMENT NAME	NAME	XXX.XXX.XXXX

IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.

1 SITE UTILITY DEMOLITION PLAN

SCALE: 1" = 30'-0"

0 15' 30' 60' 90' 120'

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5946

NOT FOR CONSTRUCTION

SITE UTILITY DEMOLITION PLAN

FOR:

E'TOWN SOFTBALL FACILITY

ELIZABETHTOWN INDEPENDENT SCHOOLS

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Project No: 1843 / XETS18
Drawn By: MCW
Rev'd By: MCW

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SCHEMATIC DESIGN

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SITE UTILITY DEMOLITION PLAN

DATE ISSUED:
12/11/2018

1 SITE UTILITY NEW WORK PLAN

SCALE: 1" = 30'-0"

0 15' 30' 60' 90' 120'

TAGGED NOTES ⟨##⟩

1	REFER TO MECHANICAL PLAN FOR CONTINUATION.
2	REFER TO PLUMBING PLAN FOR CONTINUATION.
3	PROVIDE 4" CONCRETE PAD FOR AIR HANDLING UNIT. LEVEL TO MANUFACTURER SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL.
4	CONNECT NEW 4" SANITARY PIPING TO EXISTING CONCESSIONS BUILDING SANITARY OUTLET.
5	CONNECT NEW 2" DOMESTIC WATER PIPING TO EXISTING CONCESSIONS BUILDING WATER SERVICE ENTRANCE.
6	CONNECT NEW 2" DOMESTIC WATER PIPING TO EXISTING DOMESTIC WATER PIPING SERVICE AND EXTEND TO NEW BUILDING AND EXISTING CONCESSIONS BUILDING AS INDICATED.
7	CONNECT NEW SANITARY PIPING TO EXISTING SANITARY MAIN AT POINT INDICATED.
8	NEW PADMOUNT UTILITY TRANSFORMER.
9	NEW UTILITY POLE RISER.
10	UNDERGROUND PRIMARY TO TRANSFORMER.
11	UNDERGROUND SECONDARY TO MDP - REFER TO POWER AND SYSTEMS PLAN.
12	EXACT LOCATION OF DOMESTIC WATER PIPING INDICATED BY DASHED LINES IS UNKNOWN. LOCATION SHOWN IS ASSUMED LOCATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE OF $20,000 TO LOCATE EXISTING PIPING.

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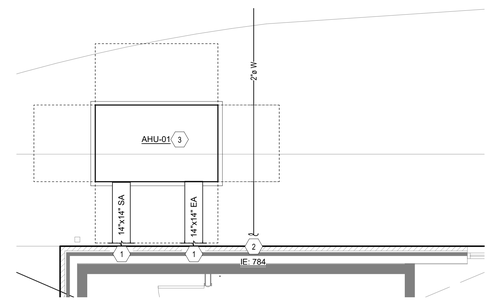

2 1 SU1.1 ENLARGED MECHANICAL YARD

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

0 1" 2" 4" 8" 12" 16"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.3946

NOT FOR CONSTRUCTION

SITE UTILITY NEW WORK PLAN

E'TOWN SOFTBALL FACILITY

FOR:

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SCHEMATIC DESIGN

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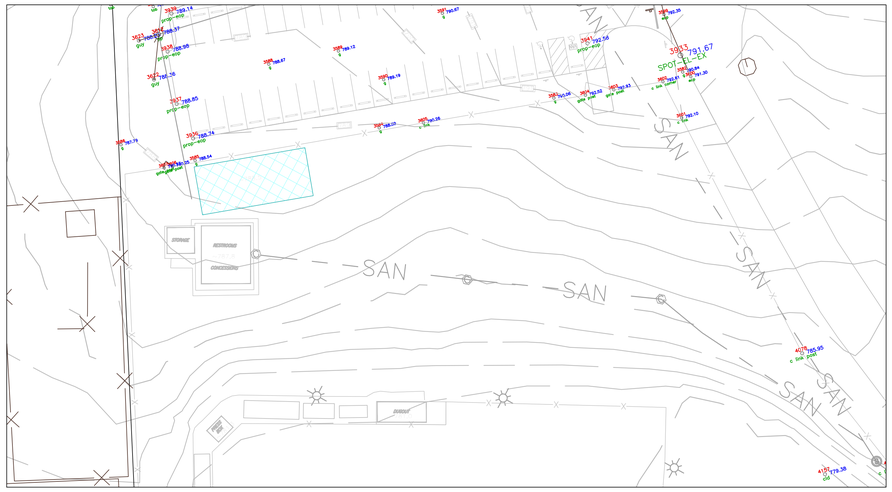
SITE UTILITY NEW WORK PLAN

DATE ISSUED:
12/11/2018

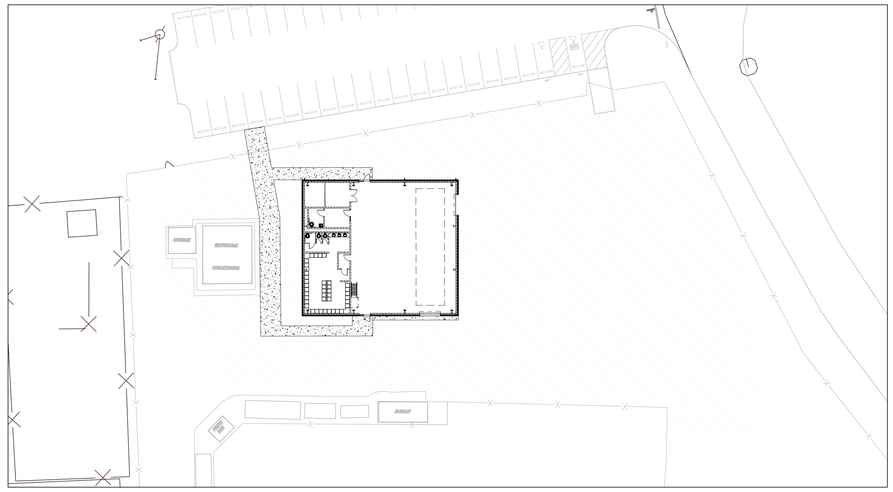


SITE DEMOLITION PLAN

SCALE: 1" = 30'

0 30 60 Feet

D SD1.1

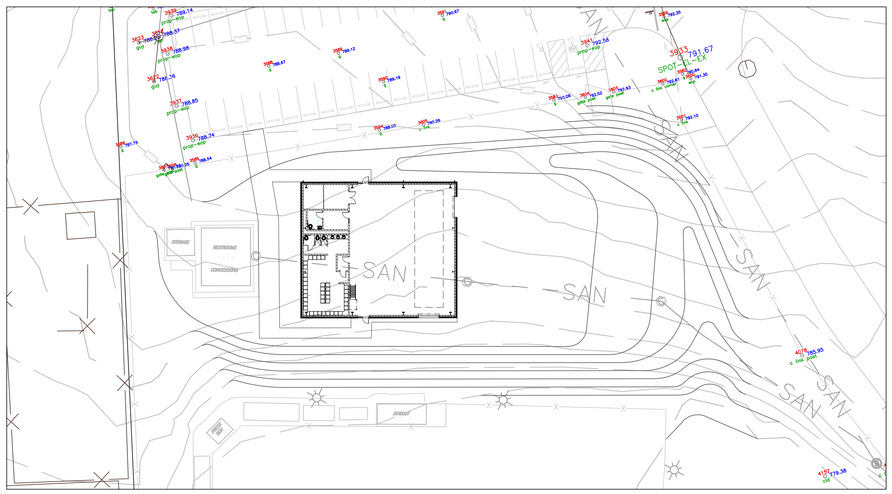


SITE DEVELOPMENT PLAN

SCALE: 1" = 30'

0 30 60 Feet

B SD1.1

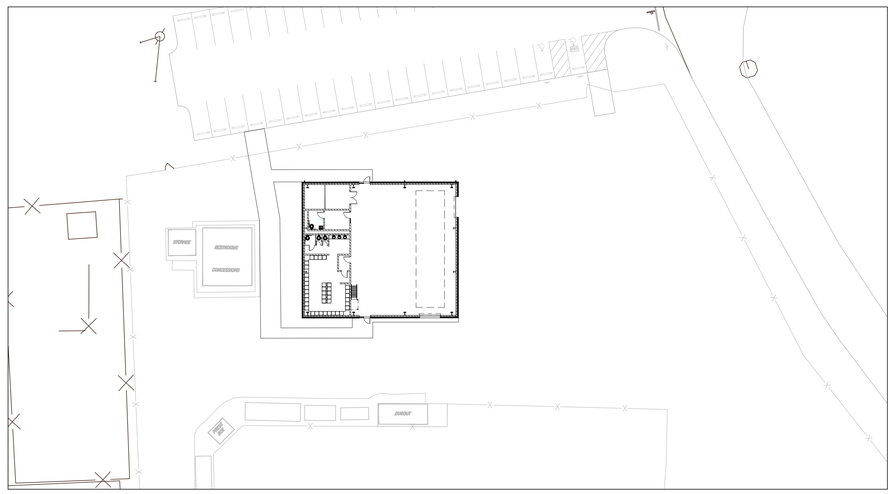


SITE GRADING PLAN

SCALE: 1" = 30'

0 30 60 Feet

C SD1.1



SITE LAYOUT PLAN

SCALE: 1" = 30'

0 30 60 Feet

A SD1.1

GENERAL SITE NOTES

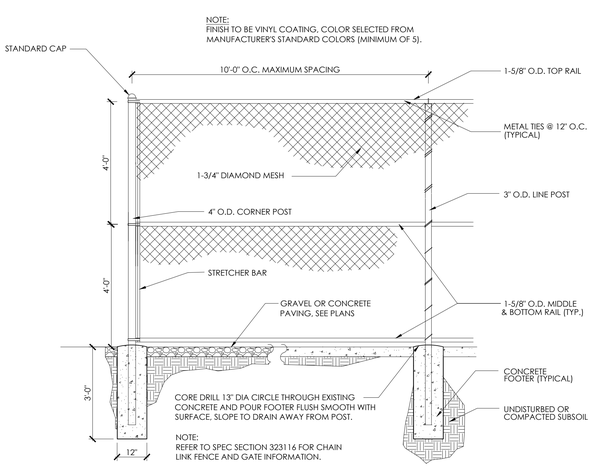
1. THE SITE PLANS WERE PREPARED BASED UPON INFERRED INFORMATION FROM DRAWINGS PROVIDED BY OWNER AND SHOULD BE FIELD VERIFIED.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. PROTECT UNDERGROUND UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE DEMOLITION TAGS

1. TREE TO REMAIN, PROTECT PER SPECIFICATIONS AND OWNERS SPECIAL CONDITIONS.
2. REMOVE EXISTING TREE / SHRUB / DENSE VEGETATION, INCLUDING STUMPS AND WOODEN EDGING.
3. EXISTING BUILDING/STRUCTURE TO REMAIN IN SERVICE AND OPERATIONAL THROUGHOUT PROJECT. NO UTILITIES TO THESE FACILITIES ARE TO BE REMOVED UNLESS NEW PERMANENT UTILITY IS PROVIDED PRIOR TO DEMOLITION.
4. EXISTING PAVING AND CURB TO REMAIN- PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAWCUT TO PROVIDE CLEAN EDGE. CONCRETE PAVING TO BE SAWCUT BACK TO NEAREST UNDAMAGED CONTROL OR ISOLATION JOINT. MATCH NEW ADJACENT PAVEMENT TO EXISTING PAVEMENT ELEVATIONS.

SITE DEVELOPMENT TAGS

0. EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
   - [a] PAVING. PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW CUT TO PROVIDE SMOOTH TRANSITION.
   - [b] CONCRETE CURB AND/OR GUTTER.
   - [c] STORM STRUCTURE/LINE.
   - [d] UTILITY STRUCTURE/LINE. REFER TO MEP SHEETS FOR ADDITIONAL INFORMATION.
   - [e] TREE/VEGETATION.
   - [f] FENCE
   - [g] BUILDING/STRUCTURE.
1. 4" DEPTH CONCRETE PAVEMENT. SEE DETAIL B/SD3.2. (321313)
2. CONCRETE THRESHOLD. SEE DETAIL E/SD3.2
3. VINYL COATED CHAIN LINK FENCING
   - [a] 8' FENCING. SEE DETAIL H/SD1.1.
   - [b] 8' DOUBLE SWING GATE. SEE DETAIL I/SD1.1.
4. UTILITY STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
   - [a] NEW UTILITY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
   - [b] SITE LIGHTING. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
5. STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
   - [a] BUILDING CANOPY. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



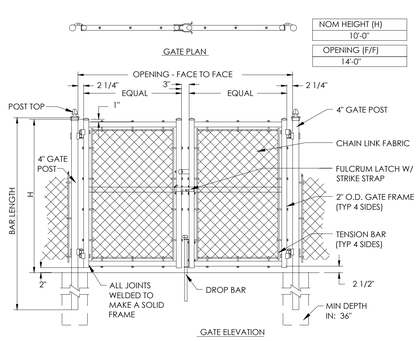
8' HIGH CHAIN LINK FENCE

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

I SD1.1

NOTE:
REFER TO SPEC SECTION 323116 FOR CHAIN LINK FENCE AND GATE INFORMATION.

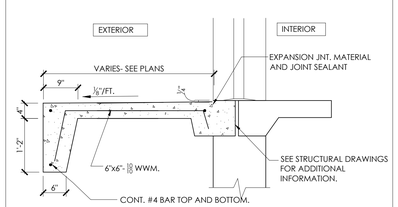
NOTES:
1. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
2. FOOTING WIDTH TO BE FOUR TIMES (4x) THE POST WIDTH.
3. FINISH TO BE VINYL COLOR COATING. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS.



8' HEIGHT CHAIN LINK DOUBLE GATE

SCALE: N.T.S.

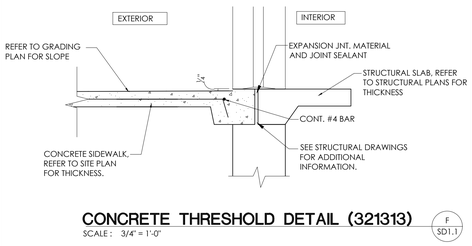
H SD1.1



CONCRETE STOOP DETAIL (321313)

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

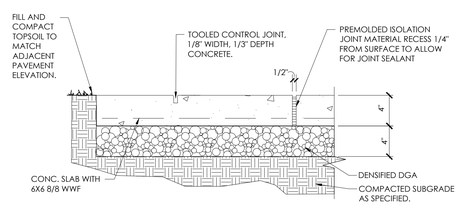
G SD1.1



CONCRETE THRESHOLD DETAIL (321313)

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

F SD1.1



CONCRETE PAVEMENT (321313)

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

E SD1.1

LEGEND

CONCRETE PAVEMENT

SODDED AREA (329223)

SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL A/SD0.1

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NOT FOR CONSTRUCTION

SITE DEMOLITION, DEVELOPMENT/LAYOUT, AND GRADING

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE

FOR:

ELIZABETHTOWN INDEPENDENT SCHOOLS

620 N Mulberry St, Elizabethtown, KY 42701

Project No:	1843
Drawn By:	KAM
Rev'd By:	LMR/DS

SHEET RELEASE

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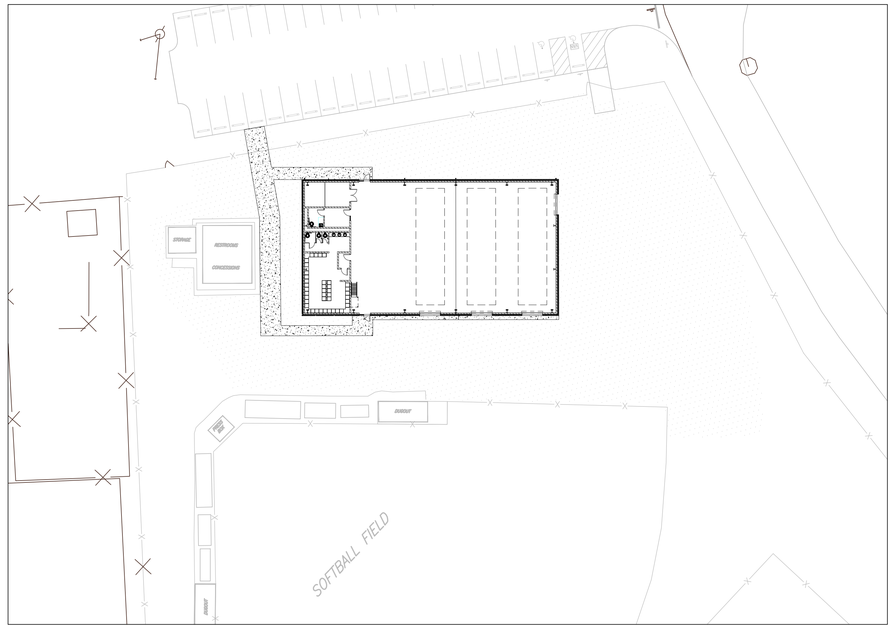
SCHEMATIC DESIGN

SD1.1

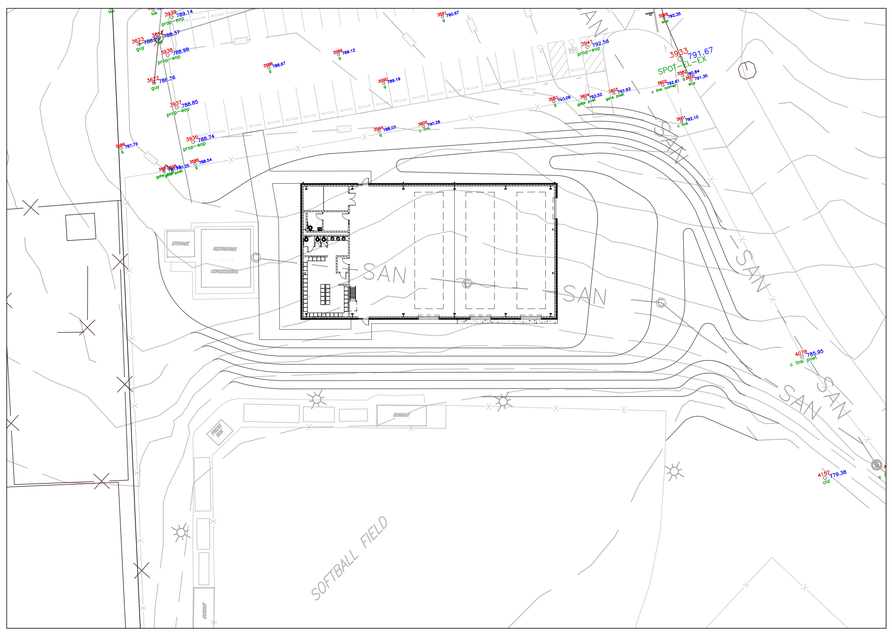
SITE DEMOLITION, DEVELOPMENT/ LAYOUT, AND GRADING PLANS

DATE ISSUED:

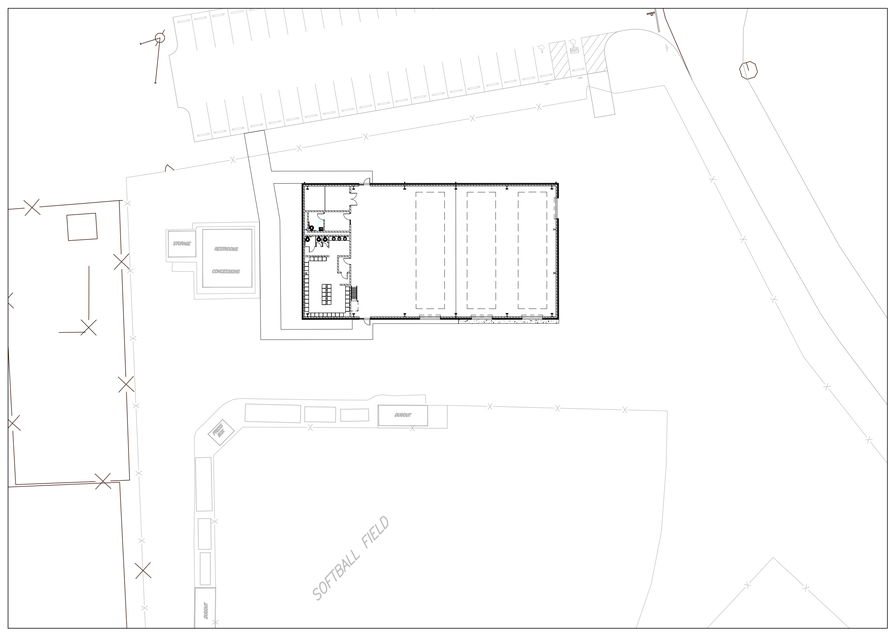
NOVEMBER 12, 2018



ALTERNATE #1: SITE DEVELOPMENT PLAN
SCALE : 1" = 30'
B SD1.2
0 30 60 Feet



ALTERNATE #1: SITE GRADING PLAN
SCALE : 1" = 30'
C SD1.2
0 30 60 Feet



ALTERNATE #1: SITE LAYOUT PLAN
SCALE : 1" = 30'
A SD1.2
0 30 60 Feet

GENERAL SITE NOTES

1. THE SITE PLANS WERE PREPARED BASED UPON INFERRED INFORMATION FROM DRAWINGS PROVIDED BY OWNER AND SHOULD BE FIELD VERIFIED.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN WORKING AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. PROTECT UNDERGROUND UTILITIES FROM DAMAGE DURING CONSTRUCTION.
5. SEE EROSION POLLUTION AND SEDIMENT CONTROL PLAN FOR RECOMMENDED BEST MANAGEMENT PRACTICES INFORMATION AND SEDIMENT CONTROLS.

SITE DEVELOPMENT TAGS

0 EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- (a) PAVING. PATCH/REPAIR WHERE DAMAGED BY CONSTRUCTION. SAW CUT TO PROVIDE SMOOTH TRANSITION.
- (b) CONCRETE CURB AND/OR GUTTER.
- (c) STORM STRUCTURE/LINE.
- (d) UTILITY STRUCTURE/LINE. REFER TO MEP SHEETS FOR ADDITIONAL INFORMATION.
- (e) TREE/VEGETATION.
- (f) FENCE
- (g) BUILDING/STRUCTURE.

1 4" DEPTH CONCRETE PAVEMENT. SEE DETAIL B/SD3.2. (321313)

2 CONCRETE THRESHOLD. SEE DETAIL E/SD3.2

3 VINYL COATED CHAIN LINK FENCING
- (a) 8' FENCING. SEE DETAIL H/SD1.1.
- (b) 8' DOUBLE SWING GATE. SEE DETAIL I/SD1.1.

4 UTILITY STRUCTURE. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- (a) NEW UTILITY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- (b) SITE LIGHTING. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

5 STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (a) BUILDING CANOPY. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

LEGEND

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- SEDIMENT CONTROL FENCE. ADDITIONAL FENCE MAY BE REQUIRED AT OTHER AREAS DURING CONSTRUCTION. SEE DETAIL A/SD0.1

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NOT FOR CONSTRUCTION

ALTERNATE #1: DEVELOPMENT/LAYOUT AND GRADING

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE

FOR:

ELIZABETHTOWN INDEPENDENT SCHOOLS
620 N Mulberry St, Elizabethtown, KY 42701

Project No: 1843
Drawn By: KAM
Rev'd By: LMR/DS

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SCHEMATIC DESIGN

SD1.2

ALTERNATE #1: DEVELOPMENT/ LAYOUT AND GRADING PLANS
DATE ISSUED:
NOVEMBER 12, 2018

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

DESIGN CRITERIA

1. Building Code: 2013 Kentucky Building Code

   1.1 Building Risk Category: III

2. Design Loads

   2.1 Uniform Floor Live Loads (reduced per Building Code, UNO)

General Areas	__ psf
Stairs	100 psf
Mechanical Rooms	__ psf

   2.2 Concentrated Floor Live Loads (distributed over 2.5 ft x 2.5 ft, UNO)

   Storage 1,000 lbs

   2.3 Roof Loads

   2.3.1 Uniform Roof Live Load 20 psf (reduced per Bldg. Code)
   Concentrated Roof Live Load 300 lbs

   2.3.2 Snow Loads: Ground Snow = 43 psf (with drift loads per Code)

   Terrain Category = C
   Snow Exposure Factor, Ce = 1.0
   Snow Load Importance Factor, I = 1.1
   Thermal Factor: Heated Spaces, Ct = 1.0
   Unheated Spaces, Ct = 1.2
   Flat-roof Snow Load: Heated Spaces, Pf = __ psf
   Unheated Spaces, Pf = __ psf
   Rain-on-Snow Surcharge: 5 psf (where applicable)

   2.4 Wind Loads: Basic Wind Speed V(ult)=120 mph; V(asd)= 93 mph
   Wind Exposure C
   Internal Pressure Coefficient = +/-0.18 (Enclosed Building)
   Directionality Factor, Kd = 0.85

   2.4.1 Component and Cladding Pressures: See S___

   2.5 Earthquake Loads
   Seismic Importance Factor, I = 1.25
   Mapped Spectral Response Accelerations, Ss and S1 = 0.267 and 0.129
   Site Class: C
   Spectral Response Coefficients, Sds and Sd1 = 0.214 and 0.144
   Seismic Design Category: C
   Basic Seismic-Force-Resisting System:
   Response Modification Factor, R = 3.0
   Analysis Procedure: Equivalent Lateral Force Procedure

3. Structural Engineer is not responsible for the design of steel stairs, handrails, curtain wall/window wall systems, cold-formed steel framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Construction Documents.

4. No explicit provisions have been made for future building expansion.

**** OR ****

5. Structure has been designed for future vertical expansion, see key plan _____.

GENERAL

1. Reference to standards or specifications of technical societies, organizations, or associations means the standard or specification referenced by the governing Building Code shown on the Drawings, unless specifically noted otherwise.

2. Material, workmanship, and design shall conform to the referenced Building Code.

3. For dimensions not shown in the Structural Drawings, see the Architectural Drawings.

4. Contractor responsibilities include, but are not limited to, the following:

   4.1 Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission.

   4.2 Coordinate Structural Documents with Architectural and MPE Documents for location and quantity of miscellaneous framing for items such as roof drains, suspended or supported mechanical units, window washing davits, etc. Refer to Architectural and MPE Documents for additional miscellaneous structural elements that may not appear in the Structural Documents.

   4.3 Equipment/Framing Verification

   4.3.1 Mechanical Equipment: Submit actual weights of equipment to be used for review at least 3 weeks prior to fabrication and construction. Coordinate opening sizes and locations with Mechanical Contractor.

   4.3.2 Miscellaneous Framing: Verify framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.

   4.4 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.

   4.5 Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or Procedures in performing the work.

   4.6 Contractor is responsible for locating concrete reinforcement prior to installation of post-installed anchors, through bolts, or other post-installed items in concrete. Existing reinforcement including post-tensioning tendons shall not be cut or otherwise damaged while installing post-installed anchors.

5. 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.

SUBMITTALS

1. Shop Drawings and Submittals

   1.1 Reproduction of Structural Drawings for shop drawings is not permitted.

   1.2 Electronic drawing files will not be provided to the Contractor.

   1.3 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.

2. Submittals

   2.1 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.

3. Deferred Submittals

   3.1 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.

   3.2 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.

   3.3 The following shall be considered Deferred Submittals:

   Steel Connections - See "Structural Steel" Section
   Steel Joists
   Cold-formed Exterior Steel Stud Framing
   Roof Top Unit Anchorage
   Steel Stairs and Handrails
   Curtainwall/Window Wall Systems
   Metal Building System
   Slotted Channel Strut Framing (e.g. Unistrut)
   Seismic Anchorage and Bracing of MPE Equipment

FOUNDATION

1. Geotechnical Report: _____
   Report No. _____, Dated _____

   1.1 It is the responsibility of the contractor to obtain a copy of the geotechnical report and comply with the recommendations found therein.

2. Building Pad Preparation

   2.1 Strip vegetation and topsoil.

   2.2 Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.

3. Soil Bearing Capacity: Isolated Footings _____ psf
   Continuous Footings _____ psf

   3.1 Footings shall not bear on rock. Remove rock, if any, for a depth of 2 feet below footing bearing elevation.

REINFORCEMENT

1. Reinforcing Bars: ASTM A615, Grade 60

   1.1 Reinforcing bars are not to be welded.

2. Welded Wire Reinforcement (WWR): ASTM A1064, 8" minimum side and end laps

3. Reinforcement Placement (UNO)

   3.1 Concrete Reinforcement Cover

Below Grade:	Unformed	3"	clear
	Formed	2"	clear

   3.2 Masonry reinforcing steel: Place in the center of CMU cells.

4. Reinforcement Splices

   4.1 Reinforcement marked "Continuous" can be spliced at locations determined by Contractor. All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.

   4.2 Splice Lengths (UNO)
   Concrete Reinforcement: See Concrete Lap Splice Tables in Drawings
   Masonry Reinforcement: See CMU Lap Splice Tables in Drawings

5. Deformed Bar Anchors (DBA): ASTM A496

   5.1 Deformed Bar Anchors shall conform to AWS D1.1, Type C studs with a minimum yield strength of 70 ksi and minimum tensile strength of 80 ksi.

   5.2 Deformed Bar Anchors shall be stud welded

CAST-IN-PLACE CONCRETE

1. Concrete Properties

   1.1 Normal Weight Structural Concrete

	28-Day, f'c (min)	w/cm Ratio (max.)	Entrained Air
Footings (Isolated/Continuous)	3,000 psi	----	None Required
Foundation Walls, Pedestals	_,000 psi	----	None Required
Slabs on Grade	3,500 psi	0.48	None Required
Slabs on Steel Forms	3,000 psi	0.48	None Required
Mechanical Equipment Pads:			
Interior	3,000 psi	----	None Required
Exterior	3,000 psi	----	5.0 +/- 1.5%
All Other Concrete	5,000 psi	0.40	5.0 +/- 1.5%

   Note: All concrete shall be assigned the exposure classes F0, S0, P0, and C0; except concrete in Aggressive Environment shall be assigned the exposure classes F3, S0, P1, and C2 (see ACI 318).

2. Construction Joint Locations: No horizontal construction joints are permitted except as shown on the Structural Drawings. Obtain written consent for additional joints.

3. Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.

   3.1 Conduit shall not be placed within the slab on grade. Conduit shall be installed below the slab on grade within the granular subbase.

4. Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.

5. Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.

6. Curing

   6.1 Begin curing procedures immediately following commencement of the finishing operation.

   6.2 Concrete shall be moist cured in accordance with ACI 308. See Specification for additional information.

   6.3 All concrete slabs that are to have exposed stained or polished concrete finish shall be wet cured a minimum of 7 days in strict accordance with ACI 301. The acceptable methods of wet curing are ponding, continuous fogging, continuous sprinkling; or application of mats or fabric kept continuously wet.

NON-SHRINK GROUTING

1. Non-shrink grout under steel base plates shall be non-metallic with minimum compressive strength of 5000 psi at 28 days.

2. Non-shrink grout used for patching, repair, and other specific applications shall be submitted for review and approval by engineer.

CONCRETE MASONRY

1. CMU Minimum Compressive Strength, f'm = 2,000 psi.

2. Mortar: Walls below grade Type M
   Bearing walls Type M or S
   Partition walls Type N

3. Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476.

   3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.

   3.2 Masonry webs on each side of grouted cells shall be fully mortared. Exterior Single wythe CMU walls shall have head joints fully mortared.

4. Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, UNO. Lap wire 6 inches minimum. Provide accessories for corners, intersections, etc. Use ladder type for walls with vertical reinforcing.

5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations not located over an opening. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.

6. CMU has been designed assuming "running bond" placement. Do not use "stack bond" unless approved by Structural Engineer.

7. Contraction Joints: Unless noted otherwise on the Plans, maximum spacing of 1 1/2 times of wall height or 24 feet (whichever is less) in all concrete masonry walls (including partitions) above grade.

8. Submit written construction procedures prior to the start of masonry construction.

STRUCTURAL INDEX

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NOT FOR CONSTRUCTION

STRUCTURAL NOTES
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Project No: 1843
Drawn By: CCA / AO
Rev'd By: CH/DH

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SCHEMATIC DESIGN

S0.1

STRUCTURAL NOTES

DATE ISSUED:
12/11/2018

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

STRUCTURAL STEEL

1. Steel Shapes

   1.1 W-Shapes: ASTM A992 (Grade 50)

   1.2 Angles, Channels, Plates, UNO: ASTM A36

   1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B

   1.4 Pipe Structural Sections: ASTM A53, Grade B

   1.5 Structural steel exposed to weather shall be galvanized.

2. Anchor Rods, Bolts, and Studs

   2.1 Anchor Rods: ASTM F1554, Grade 36. Headed Rods or threaded rods with plate washer and heavy hex nut.

   2.2 Bolts: 3/4" Diameter A325 minimum. All connections may be bearing type, UNO. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.

   2.3 Headed Studs: ASTM A108. See Details for Diameter, Length and Spacing. Length given is in-place length after burn-off.

3. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated June 22, 2010 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated April 14, 2010.

4. Connections shall be detailed based on the design information provided in the Structural Documents.

   4.1 Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Fourteenth Edition.

      4.1.1 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.

   4.2 Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.

   4.3 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 (LRFD)" tabulated in the "Manual of Steel Construction", Fourteenth Edition.

   4.4 Steel connections shall have the strength to resist a minimum horizontal force of five percent of the factored design reaction.

5. Shop Drawings: Submittal shall adequately depict structural members and connections.

6. Weld electrodes for welding of demand critical welds shall be low-hydrogen, E70 electrodes with a minimum Charpy V-Notch (CVN) toughness of 20 ft-lbs at 0 degrees Fahrenheit and 40 ft-lbs at 70 degrees Fahrenheit.

7. Written welding procedures for shop and field welding of all structural steel shall be submitted to the Structural Engineer and the Special Inspector for review and approval. Do not fabricate steel until the welding procedures have been approved. The approved written welding procedures shall be strictly adhered to during the fabrication and field erection of all structural steel.

8. Welders shall be qualified for the work performed in accordance with AWS D1.1. Welder qualifications shall be certified by the local building authority and verified by the Contractor and the Special Inspector.

STEEL JOISTS

1. Steel Joists, Bridging, and Connections: Designed, fabricated, and erected according to Specifications of the Steel Joist Institute (SJI).

2. Design of steel joists, bridging, and their connections shall be the sole responsibility of the Contractor. Submit shop drawings sealed by an Engineer licensed in the project state.

3. Contractor shall coordinate the construction and erection of walls, beam framing, steel decking, etc. to ensure compatibility of roof and wall systems considering pitch and camber of steel joists.

STEEL DECK

1. Non-Composite Steel Form Floor Deck: 24 gage, galvanized

2. Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

COLD-FORMED NON-LOAD BEARING EXTERIOR STEEL STUD FRAMING

1. Design of cold-formed exterior steel non-load bearing studs and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the Project state.

2. Cold-Formed Steel Design, Fabrication and Erection: Conform to AISI S100-12, "North American Specification for Design of Cold-Formed Steel Structural Members".

METAL BUILDING SYSTEM (SEE ARCHITECTURAL SPECIFICATIONS)

1. Design of Metal Building System shall be the sole responsibility of the Contractor. Submit shop drawings sealed by an Engineer licensed in the project state. Review of shop drawings shall be for conformance with the Contract Documents and the Contractor's interpretation of the design loads and Contract Document details. Such review shall not relieve the Contractor of full responsibility for the design of the Metal Building System.

2. Metal Building System includes the following:

   Steel Frames
   Lateral Load Resisting System (X-bracing, portal frames, diaphragm, etc.)
   Wind Columns
   Column anchor bolts (type, number, diameter, and embedment, adhesive anchors shall not be used)
   Roof purlins
   Wall girts
   Wide flange/channel girt that distributes the lateral load from the top of the exterior wall to the metal building frame
   Roof and wall metal panels
   Opening framing (doors, roof vents, etc.)

3. Metal Building System shall be designed for the live, wind, and seismic loads as prescribed by the Building Code given in the CODE/DESIGN CRITERIA section above and the loads listed below. Load combinations shall be in accordance with the Building Code and the MBMA "Low Rise Building Systems Manual".

   3.1 Dead Loads

      3.1.1 Weight of structural frame and all other materials of the building system.

      3.1.2 Collateral dead load (not to be included in load combinations involving wind uplift) of ___ psf.

      3.1.3 Suspended items such as mechanical equipment, plumbing, folding partitions, etc. identified in the Contract Documents.

4. Metal Building System shall meet the serviceability deflection and drift limits as given in the AISC "Steel Design Guide Series 3: Serviceability Design Considerations for Low Rise Buildings", except as modified below:

   4.1 Lateral Drift/Deflection due to wind forces mandated by the Building Code (where H is the Building Height and L is the span length)

Building Frame	H/240
Wind Columns	H/360
Member supporting top of Perimeter Wall	L/360

5. Metal Building manufacturer shall be accredited by the International Accreditation Service, Inc. (IAS), under the Inspection Programs for Manufacturers of Metal Building Systems by complying with AC472.

6. Structural steel sections and welded plate members shall be designed, fabricated and erected in accordance with the AISC "Specification for Structural Steel Buildings: Allowable Stress Design and Plastic Design" or the AISC "Load and Resistance Factor Design Specification for Structural Steel Buildings"; and the AISC "Code of Standard Practice for Steel Buildings and Bridges".

7. Light-gage, cold formed structural members and panels shall be designed in accordance with the AISI "Specification for the Design of Cold-Formed Steel Structural Members".

8. Footings have been designed based upon assumed column reactions and no base column moments. Shop Drawings shall clearly indicate foundation reactions for code required load combinations. Footing construction shall not begin until Structural Engineer reviews foundation reactions and returns reviewed shop drawings.

SEISMIC ANCHORAGE AND BRACING OF NON-STRUCTURAL COMPONENTS

1. Architectural, mechanical, and electrical components shall be properly anchored and braced to resist the seismic forces specified in the referenced Building Code. Refer to the architectural and MPE documents for specific details and additional information.

2. Suspended ducts, pipes, and conduits shall be braced in accordance with the ANSI/SMACNA 001-2008 Seismic Restraint Manual, 3rd Edition. Refer to the MPE documents for specific details and requirements.

ANCHORAGE OF MECHANICAL COMPONENTS

1. Roof Top Structures and Equipment

   1.1 Rooftop structures and equipment shall be properly anchored and braced to resist wind and seismic forces. Refer to MPE documents for specific details and additional information.

   1.2 Design of anchorage for rooftop structures, curbs and equipment shall be the sole responsibility of the Contractor. Submit shop drawings sealed by an Engineer licensed in the project state. Shop drawings shall show plan layout, typical elevations, details, and anchorage to the structure.

2. Piping

   2.1 Pipe loads supported by "C" clamps at the edge of structural steel beam flanges cannot exceed 500 pounds.

   2.2 Total load of mechanical components applied to any one structural steel beam is not to exceed 4000 pounds unless specifically approved by the Structural Engineer.

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STRUCTURAL NOTES (cont.)
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Elizabethtown, Kentucky

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
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Structural Engineer:
Structural Design Group, Inc.
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Nashville, TN 37228
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Project No: 1843
Drawn By: CCA / AO
Rev'd By: CH/DH

SHEET RELEASE

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SCHEMATIC DESIGN

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STRUCTURAL NOTES (cont.)

DATE ISSUED:
12/11/2018

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

This Structural Quality Assurance Plan includes:

1. The Statement of Special Inspections which defines the scope of testing and inspection that is required for this project.
2. The responsibilities of the Contractor.
3. Structural Observations

Refer to other portions of the Construction Documents for Special Inspections required of architectural, mechanical, electrical, or other building components.

Special Inspector will be hired by the Owner.

Special Inspector shall maintain records of inspections in accordance with Chapter 17 of the Building Code and shall distribute these records to the Building Official, Architect, and Structural Engineer on a weekly basis, unless noted otherwise below. Reports shall indicate that work inspected/tested was done in conformance to the Construction Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, they shall be brought to the attention of the Building Official, Architect, and Structural Engineer prior to completion of that phase of the work.

At the conclusion of the project, the Special Inspector shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections.

STATEMENT OF SPECIAL INSPECTIONS

Special Inspector shall perform the following tests and inspections of all structural elements included within this Statement of Special Inspections.

1. The following elements are part of the Seismic-Force-Resisting (SFR) System. and require additional Special Inspections or Testing for Seismic Resistance:
   a. Moment Frames and their Foundations
   b. Braced Frames and their Foundations
   c. Special Moment Frames and their Foundations
   d. Special Structural Walls, their Foundations, and associated Coupling Beams
   e. Floor and Roof Diaphragms

2. The followings elements are part of the Main Wind-Force-Resisting (MWFR) System and require additional Special Inspections for Wind Resistance:
   a. Moment Frames and their Foundations
   b. Braced Frames and their Foundations
   c. Floor and Roof Diaphragms, including Collectors, Drag Struts, and Boundary Elements
   d. Roof Cladding and Fastening Connections
   e. Fabrication and Installation of Impact Resistant Systems or Components

3. The following tables contain material, components and work that require special inspection or testing:
   a. Inspection Frequency, C - Continuous special inspection. Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
   b. Inspection Frequency, P - Periodic special inspection. Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed. For structural steel observe the items on a random basis.
   c. See Steel section for additional information for inspection tasks.

SOILS	Inspection Frequency		Remarks
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	---	P	---
2. Verify excavations are extended to proper depth and have reached proper material.	---	P	Inspection is required after excavation is complete and prior to placement of structural fills.
3. Perform classification and testing of controlled fill materials.	---	P	Perform laboratory tests of field samples provided by contractor for verification of in place densities.
4. Verify use of proper materials, densities, and lift thickness during placement and compaction of controlled fill. a. As a minimum, perform one test per lift for every 2500 square feet of fill placed.	C	---	Refer to specification for lift thicknesses and compaction.
5. Prior to placement of controlled fill, observe subgrade and verify that the site has been prepared properly (e.g. proofrolling, etc.).	---	P	---
6. Determine quantities of material removed and quantities of material placed where Unit Prices are involved.	---	P	---

NON-SHRINK GROUTING	Inspection Frequency		Remarks
1. Compressive strength tests per ASTM C1107. a. Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting. b. Cube Size: 2-inch x 2-inch c. Test Schedule: (1) cube at 3-days, (2) cubes at 7-days, (3) cubes at 28-days.	C	---	---
2. Perform one performance evaluation test prior placing grout under base plates. Test shall be performed as outlined in ACI 351.1R-99	---	P	One test shall be performed at the beginning job prior to placement of grout under base plates.

CONCRETE CONSTRUCTION	Inspection Frequency		Remarks
1. Inspection of reinforcing steel placement and installation. Grade, size, quantity, quality, location, spacing, clearances.	---	P	ACI 318: 3.5, 7.1 – 7.7 / IBC 1910.4
2. Inspection of anchors cast in concrete. Verify compliance of the following: diameter, grade, type, length, number, placement, and embedment dpeth.	C	---	ACI 318: 1.3.2, 8.1.3, 21.1.8 / IBC 1908.5, 1909.1, AISC 360-10 N5.7
3. Inspection of post-installed mechanical anchors installed in hardened concrete members: verify anchor type, anchor dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment, and tightening torque.	C	---	ACI 318: 3.8.6, 8.1.3, 21.1.8 / IBC 1909.1 Use of post installed anchors must be approved by Structural Engineer
4. Inspection of post-installed adhesive anchors and reinforcing steel installed in hardened concrete members: . Verify adhesive type, anchor rod dimensions, hole diameter and cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening toque.	C	---	ACI App. D9.2.4
5. Verify use of required design mix.	---	P	ACI 318: Ch. 4, 5.2 – 5.4, IBC 1904.2, 1910.2, 1910.3
6. Sampling fresh concrete from concrete discharge. Mold one set of specimens for compressive strength testing for each 150 cubic yards or each 5,000 square feet of slab or wall surface area for each mix design placed in any one day. No fewer than five tests for a given class of concrete for the entire project. a. Mold (5) 4x8-inch compressive strength cylinders, break and report (1) at 7-days, (3) at 28-days, or mold (4) 6x12-inch compressive strength cylinders, break and report (1) at 7-days, (2) at 28-days. b. Remaining specimen(s) shall be broken as directed by the Structural Engineer if compressive strengths do not appear adequate. c. For each set molded, record: i. Slump ii. Air Content iii. Unit Weight iv. Temperature, ambient and concrete v. Batch and discharge times vi. Location and placement vii. Any pertinent information, such as addition of water, addition of admixtures, etc. d. Verify compliance with construction documents	C	---	ACI 318: 5.6, 5.8 ACI (5.a, 5b.i, ii, iii, iv, v, vi), SDG (5b.vii, 5.c, 5.d) ASTM C 172, ASTM C 31 ACI 318: 5.6.1 Report in writing on the same day as tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.
7. Inspection of concrete conveying and placement for proper application techniques.	C	---	ACI 318: 5.9, 5.10
8. Inspection for maintenance of specified curing temperature and techniques.	---	P	ACI 318: 5.11 – 5.13
9. Inspection of formwork for shape, location, and dimensions of the concrete member being formed.	---	P	ACI 318: 6.1.1
10. Perform testing of floor Flatness and Levelness of concrete slab placements in accordance with ASTM E1155. See specification	---	P	ACI 117-10

CONCRETE MASONRY LEVEL B - (FOR RISK CATEGORY I, II, OR III STRUCTURES using Engineered methods, NON-Empirical)	Inspection Frequency		Remarks
1. Verification of f 'm in accordance with Specification TMS 602 Article 1.4 B prior to construction	---	---	TMS 602 - Article 1.4 B
2. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site for self-consolidating grout.			TMS 602 - Article 1.5 B.1.b.3
3. Verify compliance with the following approved submittals	---	---	---
a. Mortar mix designs indicating type and proportions of ingredients in compliance with the proportion specification of ASTM C270	---	P	TMS 602 - Article 2.1 and 2.6 A
b. Mortar mix designs and mortar tests performed in accordance with the property specification of ASTM C270.	---	P	TMS 602 - Article 2.1 and 2.6 A
c. Grout mix designs indicating type and proportions of the ingredients according to the proportion requirements of ASTM C476	---	P	TMS 602 - Article 2.2
d. Grout mix designs and grout strength test performed in accordance with ASTM C476	---	P	TMS 602 - Article 2.2
e. Grout compressive strength tests performed in accordance with ASTM C1019, and slump flow and Visual Stability Index (VSI) as determined by ASTM C1611/C1611M.	---	P	TMS 602 - Article 2.2
f. Construction procedures cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	---	P	TMS 602 - Article 1.8 C and 1.8 D
4. As masonry construction begins, verify that the following are in compliance:	---	---	
a. Proportions of site-prepared mortar	---	P	TMS 602 - Article 2.1 and 2.6 A
b. Construction of mortar joints	---	P	TMS 602 - Article 3.3 B
c. Location of reinforcement and connectors	---	P	TMS 602 - Article 3.4
5. Prior to grouting, verify that the following are in compliance:	---	---	---
a. Grout space.	---	P	TMS 602 - Article 3.2 D and 3.2 F
b. Grade, type, and size of reinforcement and anchor bolts	---	P	TMS 402 - Sec 1.16 TMS 602 - Article 2.4 and 3.4
c. Placement of reinforcement and connectors (including horizontal joint reinforcement)	---	P	TMS 402 - Sec 1.16 TMS 602 - Article 3.2 E and 3.4
d. Proportions of site-prepared grout	---	P	TMS 602 - Article 2.6 B
e. Construction of mortar joints	---	P	TMS 602 - Article 3.3 B
6. Verify during construction:	---	---	---
a. Size and location of structural elements	---	P	TMS 602 - Article 3.3 F
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	---	P	TMS 402 - Sec. 1.16.4.3, 1.17.1
c. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	---	P	TMS 602 - Article 1.8 C and 1.8 D
d. Placement of grout is in compliance	C	---	TMS 602 - Article 3.5
7. Observe preparation of grout specimens, mortar specimens, and/or prisms	---	P	TMS 602 - Article 1.4 B.2.b.3, 1.4 B.3, 1.4 B.4

STRUCTURAL STEEL	Inspection Frequency		Remarks
Where the following tasks have been be performed by the fabricator's or erector's quality control program in accordance to Chapter N of AISC 360-10. It is permitted that this tasked be coordinated with the Special Inspector so that the inspection functions are performed by only one party. The Special Inspector shall review records of tasked performed by the erector's and fabricator's quality control program to verify completeness.	Obs. – Obs.erve these items on a random basis. Operations need not be delayed pending these inspections. Perf. – Perform these tasks for each welded joint or member.		
1. Inspection of steel framing to verify compliance with details shown on the approved construction documents including member locations, bracing, stiffening application of joint details at each connection, proper fasteners, etc.	---	Obs.	AISC 360-10 N5.7
2. Review the material test reports and certifications as listed below for compliance with the construction documents. a. Main structural steel material test reports b. Anchor rods and threaded rods test reports c. Headed stud anchors - manufacturer's certifications	Perf.	---	AISC 360-10 N5.2 & N3.2
3. Visual Inspection Tasks Prior to Welding	---	---	AISC 360-10 Table N5.4-1
a. Welding procedure specifications (WPSs) available	Perf.	---	AWS D1.1/D1.1M 6.3
b. Manufacturer certifications for welding consumables available.	Perf.	---	
c. Material identification (type/grade)	---	Obs.	
d. Welder identification system The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.	---	Obs.	AWS D1.1/D1.1M 6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
e. Fit-up of groove welds (including joint geometry) i. Joint preparation ii. Dimensions (alignment, root opening, root face, bevel) iii. Cleanliness (condition of steel surfaces) iv. Tacking (tack weld quality and location) v. Backing type and fit (if applicable)	---	Obs.	AWS D1.1/D1.1M 6.5.2 AWS D1.1/D1.1M 5.22 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18 AWS D1.1/D1.1M 5.10, 5.22.1.1
f. Configuration and finish of access holes	---	Obs.	AWS D1.1/D1.1M 6.5.2, 5.17
g. Fit-up of fillet welds i. Dimensions (alignment, gaps at root) ii. Cleanliness (condition of steel surfaces) iii. Tacking (tack weld quality and location)	---	Obs.	AWS D1.1/D1.1M 5.22.1 AWS D1.1/D1.1M 5.15 AWS D1.1/D1.1M 5.18
h. Check welding equipment	---	Obs.	Only Required for shop Fabrication.
4. Visual Inspection Tasks During Welding	---	---	AISC 360-10 Table N5.4-2
a. Use of qualified welders	---	Obs.	AWS D1.1/D1.1M 6.4
b. Control and handling of welding consumables i. Packaging ii. Exposure control	---	Obs.	AWS D1.1/D1.1M 6.2 AWS D1.1/D1.1M 5.3.1 AWS D1.1/D1.1M 5.3.2 (for SMAW), AWS D1.1/D1.1M 5.3.3 (for SAW)
c. No welding over cracked tack welds	---	Obs.	AWS D1.1/D1.1M 5.18
d. Environmental conditions i. Wind speed within limits ii. Precipitation and temperature	---	Obs.	AWS D1.1/D1.1M 5.12.1 AWS D1.1/D1.1M 5.12.2
e. WPS followed i. Settings on welding equipment ii. Travel speed iii. Selected welding materials iv. Shielding gas type/flow rate v. Preheat applied vi. Interpass temperature maintained (min./max.) vii. Proper position (F, V, H, OH) viii. Intermix of filler metals avoided unless approved	---	Obs.	AWS D1.1/D1.1M 6.3.3, 6.5.2, 5.5, 5.21 AWS D1.1/D1.1M 5.6, 5.7
f. Welding techniques i. Interpass and final cleaning ii. Each pass within profile limitations iii. Each pass meets quality requirements	---	Obs.	AWS D1.1/D1.1M 6.5.2, 6.5.3, 5.24 AWS D1.1/D1.1M 5.30.1
5. Visual Inspection Tasks After Welding	---	---	AISC 360-10 Table N5.4-3
a. Welds cleaned	---	Obs.	AWS D1.1/D1.1M 5.30.1
b. Size, length and location of welds	Perf.	---	AWS D1.1/D1.1M 6.5.1
c. Welds meet visual acceptance criteria i. Crack prohibition ii. Weld/base-metal fusion iii. Crater cross section iv. Weld profiles v. Weld size vi. Undercut vii. Porosity	Perf.	---	AWS D1.1/D1.1M 6.5.3 AWS D1.1/D1.1M Table 6.1(1) AWS D1.1/D1.1M Table 6.1(2) AWS D1.1/D1.1M Table 6.1(3) AWS D1.1/D1.1M Table 6.1(4), 5.24 AWS D1.1/D1.1M Table 6.1(6) AWS D1.1/D1.1M Table 6.1(7) AWS D1.1/D1.1M Table 6.1(8)
d. Arc strikes	Perf.	---	AWS D1.1/D1.1M 5.29
e. k-area. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75mm) of the weld.	Perf.	---	Not addressed in AWS but see AISC (1997b). See Commentary Section A3.1c and Section J10.8.
f. Backing removed and weld tabs removed and finished, and fillet welds added (if required)	Perf.	---	AWS D1.1/D1.1M 5.10, 5.31
g. Repair activities	Perf.	---	AWS D1.1/D1.1M 6.5.3, 5.26
h. Document acceptance or rejection of welded joint or member	Perf.	---	AWS D1.1/D1.1M 6.5.4, 6.5.5

STRUCTURAL STEEL CONT.	Inspection Frequency		Remarks
6. Nondestructive Testing (NDT) of Welded Joints	Ultrasonic testing (UT), magnetic particle testing (MT), penetrant testing (PT) and radiographic testing (RT), where required, shall be performed by Special Inspector in accordance with AWS D1.1/D1.1M. NDT of welds completed in a fabricator's shop may be performed by that fabricator when fabricator is AISC Certified or approved by the Building Official where applicable. When the fabricator performs the NDT, the Special inspection agency shall review the fabricator's NDT reports. All NDT of welds completed in the field shall be performed by the Special Inspector. Acceptance criteria shall be in accordance with AWS D1.1/D1.1M for *statically loaded* structures, unless otherwise designated in the *design drawings* or project *specifications*.		
a. UT all complete penetration groove welds subject to transversely applied tension loading in a butt, T- and corner joints in material 5/16" thick or greater. MT shall be performed on 25% of all beam-to-column CJP groove welds.	Perf.	---	AISC 360-10 N5.5b & AISC 341-10 J6.2b
b. Thermally cut surfaces of access holes when material thickness is greater than 2" shall be tested by MT or PT. Any crack shall be deemed unacceptable.	Perf.	---	AISC 360-10 N5.5c
c. Establish weld soundness of welded joint subject to fatigue by RT of UT for the following joints:	Perf.	---	Reduction in rate of UT is prohibited. AISC 360-10 N5.5d
d. k-Area NDT: Where welding of doubler plates, continuity plates or stiffeners has been performed the web shall be tested for cracks using MT.	Perf.	---	The MT inspection area shall include the k-area base metal within 3-in if the weld and shall be performed within 48 hours following completion of the welding. AISC 341-10 J6.2a
e. Base Metal NDT for Lamellar Tearing and Laminations: After joint completion, base metal thicker than 1-1/2" loaded in tension in the through-thickness direction in tee and corner joints, where the connected material is greater than 3/4" and contains CJP groove welds, shall be UT for discontinuities behind and adjacent to the fusion line of such welds.	Perf.	---	Any base metal discontinuities found within t/4 of the steel surface shall be accepted or rejected on the basis of criteria of AWS D1.1/D1.1M Table 6.2, where is the thickness of the part subjected to the through-thickness strain. AISC 341-10 J6.2c
f. Beam Cope and Access Hole NDT: At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested using MT or PT, when the flange thickness exceeds 1-1/2 in. for rolled shapes, or when the web thickness exceeds 1-1/2 in. for built-up sections.	Perf.	---	AISC 341-10 J6.2d
g. Reduced Beam Section (RBS) Repair NDT: Magnetic particle testing shall be performed on any weld and adjacent area of the reduced beam section (RBS) cut surface that has been repaired by welding, or on the base metal of the RBS cut surface if a sharp notch has been removed by grinding.	Perf.	---	AISC 341-10 J6.2e
h. Weld Tab Removal Sites: At the ends of welds were weld tabs have been removed, MT shall be performed on the same beam-to-column joints receiving UT	Perf.	---	AISC 341-10 J6.2f
i. Document all NDT performed, identifying tested weld by location in the structure, piece mark and location. Concurrent to submitting NDT reports to EOR or owner submit to contractor.	Perf.	---	AISC 360-10 N5.5g
j. Review NDT test reports performed by fabricator	---	---	AISC 360-10 N7
7. Inspection Tasks Prior to Bolting			Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. AISC 360-10 Table N5.6-1
a. Manufacturer's certifications available for fastener materials	Perf.	---	RCSC 2.1 & 9.1
b. Fasteners marked in accordance with ASTM requirements	Perf.	---	RCSC Figure C-2.1 & 9.1 (Also See ASTM Standards)
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	---	Obs.	RCSC 2.3.2, 2.7.2 & 9.1
d. Proper bolting procedure selected for joint detail	---	Obs.	RCSC 4 & 8
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	---	Obs.	RCSC 3, 9.4 & 9.3
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used, not required for Snug tight bolts	---	Obs.	RCSC 7 & 9.2
g. Proper storage provided for bolts, nuts, washers and other fastener components	---	Obs.	RCSC 2.2,8 & 9.1
8. Inspection Tasks During Bolting			Perform for 10% of all Snug tight joints if task is applicable and all pretension and slip critical joints. Special Inspector need not be present during bolt pretensioning procedures. AISC 360-10 Table N5.6-2
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	---	Obs.	RCSC 8.1 & 9.1
b. Joint brought to the snug-tight condition prior to the pretensioning operation	---	Obs.	RCSC 8.1 & 9.1
c. Fastener component not turned by the wrench prevented from rotating	---	Obs.	RCSC 8.2 & 9.2
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	---	Obs.	RCSC 8.2 & 9.2
9. Inspection Tasks After Bolting	---	---	AISC 360-10 Table N5.6-3
a. Document acceptance or rejection of bolted connections	Perf.	---	

STEEL JOISTS	Inspection Frequency		Remarks
1. Visual inspection of bolted and welded connections.	---	P	---
2. Verify installation of bridging or braces.	---	P	---
3. Verify connections for top and bottom chords.	---	P	---
4. Verify reinforcement of members for concentrated loads.	---	P	---
5. Verify proper bearing.	---	P	---

STEEL DECK	Inspection Frequency		Remarks
1. Material verification of steel deck. a. Identification markings to conform to ASTM standards specified in the approved construction documents b. Manufacturer's certified test reports.	---	P	---
2. Verify general alignment and deck lap.	---	P	---
3. Verify welds for size and pattern.	---	P	---
4. Inspection of welding at floor deck	---	P	
5. Verify spacing and type of sidelap attachments.	---	P	---
7. Inspect welding operations, screw attachment, bolting, anchoring, and other fastening of components within the lateral force resisting system along including shear walls, braces,diaphragms, collectors (drag struts) and hold downs.	---	P	---

CONTRACTOR RESPONSIBILITIES

1. Contractor shall submit to the Building Official, Owner, and the Architect a written statement of responsibility that contains the following:
   a. Acknowledgment of awareness of the special requirements contained in the Statement of Special Inspections for the main wind- or seismic force-resisting system or a wind- or seismic-resisting component listed in the statement of special inspections.
2. 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.
3. Contractor is responsible to ensure that the Special Inspector is on site as required to perform all tasks required by Statement of Special Inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.
4. Contractor has the following responsibilities to the Special Inspector:
   a. Provide copy of Construction Documents to Special Inspector and latest addenda (include change orders and field orders prior to inspection of work contained therein).
   b. Notify Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
   c. Cooperate with Special Inspector and provide access to work.
   d. Provide samples of materials to be tested in required quantities.
   e. Provide storage space for Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
   f. Provide labor to assist Special Inspector in performing tests/inspections.
5. Contractor shall perform the following:
   a. SOILS
      i. Identify soils to be used as structural fill.
   b. CAST-IN-PLACE CONCRETE
      i. Submit manufacturer's certification that reinforcing materials comply with Construction Documents.
      ii. Establish concrete mix design proportions in accordance with the specifications and ACI 318, Chapter 5.
      iii. Submit manufacturer's certification that concrete materials meet the requirements of the Construction Documents.
   c. NON-SHRINK GROUTING
      i. Submit product data sheets for non-shrink grout that shows compliance with the Construction Documents and with ASTM C1107 for fluid or flowable grouts, prior to placement of grout.
   d. CONCRETE MASONRY
      i. Submit a certification from each manufacturer or supplier stating that the following materials comply with the Construction Documents:
         1. Concrete masonry units.
         2. Mortar materials: Portland cement, hydrated lime, and aggregates.
         3. Grout materials: Portland cement and aggregates.
         4. Joint reinforcement steel.
         5. Reinforcing steel.
   e. STRUCTURAL STEEL
      i. If fabricator or erector is not AISC certified, the fabricator and/or erector shall establish and maintain *quality control* procedures and perform inspections to ensure that their work is performed in accordance with the Section N of the Specification for Structural Steel Building, AISC 360-10 and the *construction documents*. Payment of these Quality control tests and inspections, except for all NDT of welds completed in the field by the Special Inspector, shall be by the fabricator and Erector.
         1. Make available the documents listed in AISC 360-10 N3.2 in electronic or printed form for review by the EOR of the EOR's Designee prior to fabrication or erection unless otherwise required by the contract documents to be submitted:
      ii. Provide non-destructive test (NDT) reports performed in shop by fabricator. Fabricator is responsible for cost of NDT performed in shop. Reports shall identify the tested weld by piece mark and location in the piece.
   f. POST-INSTALLED ANCHORS
      i. Contractor shall contact manufacturer's representative for product installation training. Submit a letter indicating that training has taken place.
   g. STEEL JOISTS
      i. Submit manufacturer's certificate of compliance that the steel joists comply with the Construction Documents.
   h. STEEL DECK
      i. Submit manufacturer's certificate of compliance that the supplied steel deck complies with the Construction Documents.
   i. METAL BUILDING SYSTEM
      i. Submit certification that the Metal Building System manufacturer is accredited by the International Accreditation Service, Inc. (IAS), under the Inspection Programs for Manufacturers of Metal Building Systems by complying with AC472.

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NOT FOR CONSTRUCTION

STRUCTURAL QUALITY ASSURANCE PLAN
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
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SCHEMATIC DESIGN

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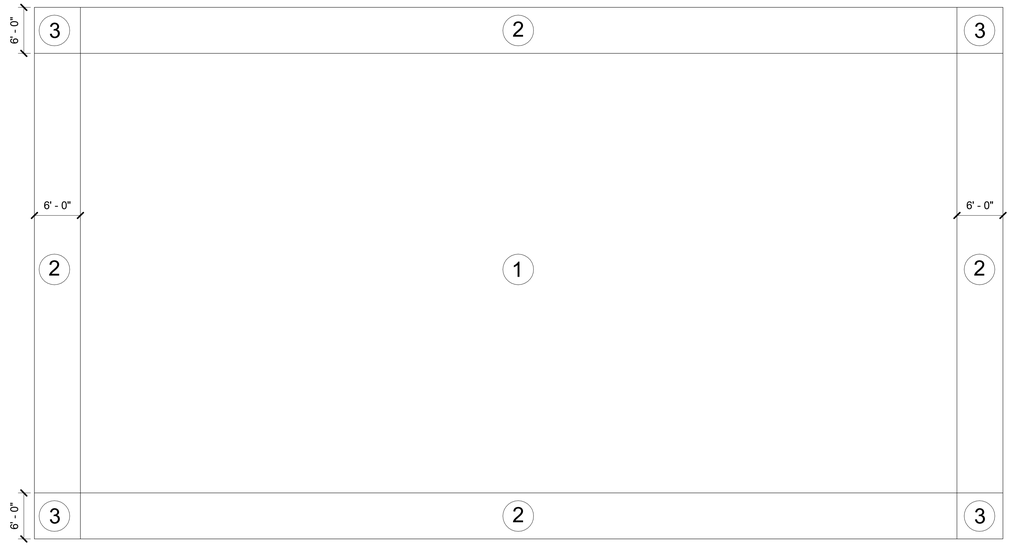
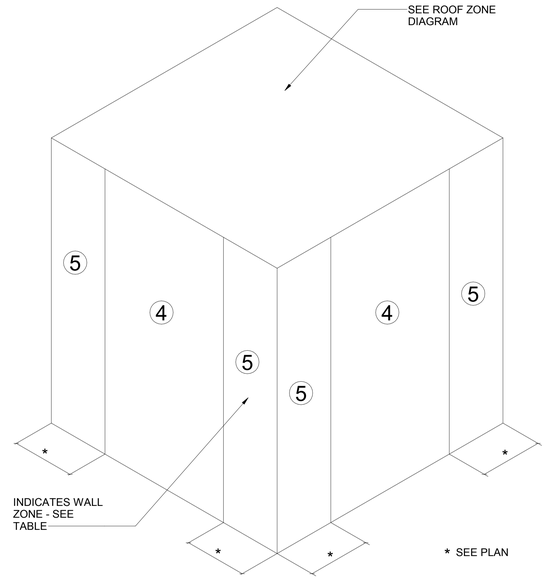
STRUCTURAL QUALITY ASSURANCE PLAN
DATE ISSUED:
12/11/2018



WIND PRESSURE PLAN

1/8" = 1'-0"



WALL ZONE DIAGRAM

WIND PRESSURE DIAGRAM NOTES:

1. DESIGN WIND PRESSURES WERE CALCULATED IN ACCORDANCE WITH ASCE 7-10 BASED ON AN EFFECTIVE WIND AREA AND WITH Kd= 0.85 MULTIPLY BY 0.6 FOR ASD
2. ROOF UPLIFT WIND PRESSURES IN ZONES 1, 2, AND 3 ARE GROSS UPLIFT VALUES. NET UPLIFT PRESSURES SHALL BE CONSIDERED EQUAL TO GROSS PRESSURES.
3. TABULATED WIND PRESSURES SHALL BE USED IN THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS. INTERPRETATION AND APPLICATION OF THESE PRESSURES TO SPECIFIC PORTIONS OF THE BUILDING AREAS SHALL BE THE RESPONSIBILITY OF THE EXTERIOR COMPONENT AND CLADDING MATERIAL SUPPLIER.
4. WHERE PARAPET HEIGHT EXCEEDS 3' - 0", CORNER ZONES (ZONE 3), MAY BE TREATED AS PERIMETER ZONES (ZONE 2).

EXTERIOR WALL PRESSURES		
AREA (SQ. FT)	ZONE 4 (PSF)	ZONE 5 (PSF)
10		
50		
100		
200		
≥ 500		

ROOF UPLIFT PRESSURES			
AREA (SQ. FT)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	-38		
20	-36		
50	-33		
100	-31		
200	-29		
2500	-26		

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NOT FOR CONSTRUCTION

WIND PRESSURE DIAGRAM PLAN

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE

FOR:

ELIZABETHTOWN INDEPENDENT SCHOOLS

Elizabethtown, Kentucky

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
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Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Project No: 1843
Drawn By: CCA / AO
Rev'd By: CH/DH

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SCHEMATIC DESIGN

S0.4

WIND PRESSURE DIAGRAM PLAN

DATE ISSUED:
12/11/2018

FOUNDATION NOTES:

1. WALL REINFORCING FOR FULL HEIGHT OF WALLS IS INDICATED ON PLANS (ie, X" #X@XX", DENOTES CMU/BAR SIZE/BAR SPACING) SEE TYPICAL CMU / WALL REINFORCING DETAIL FOR ADDITIONAL REINFORCING AT OPENINGS, CORNERS, CMU CONTRACTION JOINTS, ETC.
2. WALLS SHOWN ON PLAN WITHOUT REINFORCING INDICATED TO HAVE MINIMUM REINFORCING AS SHOWN IN THE TYPICAL CMU WALL REINFORCING DETAIL.
3. LINTELS ABOVE DOOR AND WINDOW OPENINGS ARE SHOWN ON PLANS. "LX" - SEE CMU LINTEL SCHEDULE FOR SIZE AND REINFORCING.
4. CJ (CMU CONTRACTION JOINT) SHOWN ON PLANS INDICATES APPROPRIATE LOCATIONS OF CONTRACTION JOINTS. LOCATIONS ARE INTENDED TO COINCIDE WITH CMU COURSING. COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK JOINTS.
5. ALL DIMENSIONS ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE DETAILING AND CONSTRUCTION AR TO BEGIN. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. DO NOT LOCATE PLUMBING LINES WITHIN CONCRETE FOOTINGS.

FOOTING LEGEND

STRUCTURAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ARCH.	ARCHITECT/ARCHITECTURE
BLDG	BUILDING
BRG	BEARING
B or BOT.	BOTTOM
B/xxx	BOTTOM OF SOMETHING
CJ	CONTRACTION/CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS/CONTINUED
COORD.	COORDINATE
DBL	DOUBLE
DIA.	DIAMETER
DL	DEAD LOAD
DP	DRILLED PIER
DWG, DWGS	DRAWING(S)
EA.	EACH
EE	EACH END
EF	EACH FACE
EW	EACH WAY
EJ	EXPANSION JOINT
EL.	ELEVATION
EQ.	EQUAL
ELEV	ELEVATOR
EMBED.	EMBEDMENT/EMBEDDED
EOS	EDGE OF SLAB
EQUIP.	EQUIPMENT
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F/xxx	FACE OF SOMETHING
FD	FIELD DETERMINED
FDN	FOUNDATION
FIN.	FINISHED
FLG	FLANGE
FLR or FL.	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA.	GAGE
GALV.	GALVANIZED
HDD	HEADED
HORIZ.	HORIZONTAL
ICF	INSULATED CONCRETE FORM
INFO.	INFORMATION
INT.	INTERIOR
JT	JOINT
JST	JOIST
K	KIPS
KSI	KIPS PER SQUARE INCH
KSF	KIPS PER SQUARE FOOT
LBS or #	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLO	LONG LEG OUTSTANDING
LLV	LONG LEG VERTICAL
MPE	MECHANICAL, PLUMBING AND ELECTRICAL
MFR	MANUFACTURER
MATL	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
No. or #	NUMBER
NS	NEAR SIDE
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OH	OPPOSITE HAND
OPP.	OPPOSITE
PART.	PARTIAL, OR PARTITION
PL	PLATE
PH	PENTHOUSE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	REACTION
RAD.	RADIUS
RD	ROOF DRAIN
REINF.	REINFORCING/REINFORCEMENT
REQD	REQUIRED
REV.	REVISION/REVISED
RTU	ROOF TOP UNIT
SECT.	SECTION
SIM.	SIMILAR
SPECS	SPECIFICATIONS
SQ.	SQUARE
STD	STANDARD
STIFF.	STIFFENER
STL	STEEL
SYM.	SYMMETRICAL
T	TOP
t	THICKNESS
/xxx	TOP OF SOMETHING
THK	THICK
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
w/	WITH
w/o	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT

Concrete Minimum 28 Day Compressive Strength, f'c = 3000 psi

Bar Size	Case 1		Case 2	
	Top Bars	Other Bars	Top Bars	Other Bars
#3	2'-6"	2'-0"	3'-9"	3'-0"
#4	3'-3"	2'-9"	5'-0"	3'-9"
#5	4'-3"	3'-3"	6'-0"	4'-9"
#6	5'-0"	3'-9"	7'-3"	5'-6"
#7	7'-0"	5'-6"	10'-6"	8'-0"
#8	8'-0"	6'-3"	11'-9"	9'-3"
#9	9'-0"	7'-0"	13'-3"	10'-3"
#10	10'-0"	7'-9"	15'-0"	11'-6"
#11	11'-3"	8'-9"	16'-6"	12'-9"

Concrete Minimum 28 Day Compressive Strength, f'c = 4000 psi

Bar Size	Case 1		Case 2	
	Top Bars	Other Bars	Top Bars	Other Bars
#3	2'-3"	1'-9"	3'-3"	2'-6"
#4	3'-0"	2'-3'	4'-3"	3'-3"
#5	3'-6"	2'-9"	5'-3"	4'-3"
#6	5'-3"	4'-0"	7'-9"	6'-0"
#7	7'-6"	5'-9"	11'-3"	8'-9"
#8	8'-6"	6'-6"	12'-9"	9'-9"
#9	9'-6"	7'-6"	14'-3"	11'-0"
#10	10'-9"	8'-3"	16'-0"	12'-6"
#11	12'-0"	9'-3"	17'-9"	13'-9"

Concrete Minimum 28 Day Compressive Strength, f'c = 5000 psi

Bar Size	Case 1		Case 2	
	Top Bars	Other Bars	Top Bars	Other Bars
#3	2'-0"	1'-9"	3'-0"	2'-3"
#4	2'-9"	2'-3"	3'-9"	3'-0"
#5	3'-3"	2'-6"	4'-9"	3'-9"
#6	4'-9"	3'-9"	7'-0"	5'-6"
#7	6'-9"	5'-3"	10'-0"	7'-9"
#8	7'-9"	6'-0"	11'-6"	8'-9"
#9	8'-9"	6'-9"	12'-9"	10'-0"
#10	9'-9"	7'-6"	14'-6"	11'-3"
#11	10'-9"	8'-3"	16'-0"	12'-3"

Concrete Minimum 28 Day Compressive Strength, f'c = 6000 psi

Bar Size	Case 1		Case 2	
	Top Bars	Other Bars	Top Bars	Other Bars
#3	2'-0"	1'-6"	2'-9"	2'-3"
#4	2'-6"	2'-0"	3'-6"	2'-9"
#5	3'-0"	2'-3"	4'-3"	3'-6"
#6	3'-6"	2'-9"	5'-3"	4'-0"
#7	5'-0"	4'-0"	8'-6"	6'-6"
#8	5'-9"	4'-6"	8'-6"	6'-6"
#9	6'-6"	5'-0"	9'-6"	7'-3"
#10	7'-3"	5'-6"	10'-9"	8'-3"
#11	8'-0"	6'-3"	11'-9"	9'-3"

SPLICE LENGTH NOTES:

Case #1: For beams and columns, concrete cover greater than or equal to bar diameter, bar spacing greater than or equal to 2 times bar diameter, and ties as specified on the drawings. For other members, concrete cover greater than or equal to bar diameter and bar spacing greater than or equal to 3 times bar diameter.

Case #2: For beams and columns, concrete cover less than bar diameter and bar spacing less than 2 bar diameters. For other members, concrete cover less than bar diameter and bar spacing less than 3 times bar diameter.

Top bars are horizontal reinforcement with more than 12" of fresh concrete placed below the splice.

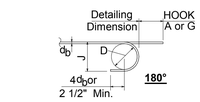
Where indicated on the drawings, class "A" lap splice lengths may be calculated by dividing tabulated values by 1.3.

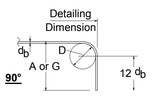
As contractor's alternate, class "B" splice lengths may be calculated by the steel reinforcement detailer in accordance with ACI 318 and submitted for review.

Tension couplers may be used and installed in accordance with manufacturer's recommendations and shall be capable of developing 125% of the reinforcing steel ASTM specified minimum yield strength.

For lightweight structural concrete, multiply lap splice lengths by 1.3

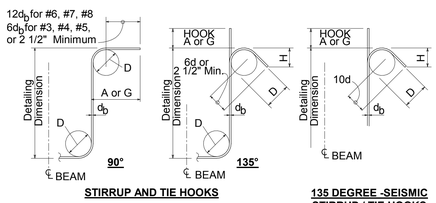
CONCRETE REINFORCEMENT CLASS "B" SPLICE LENGTHS (UNO)





RECOMMENDED END HOOKS , ALL GRADES

BAR SIZE	FINISHED BEND DIAMETER D, in.	180 DEG. HOOKS		90 DEG HOOKS A or G, in.
		A or G, in.	J, in.	
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"
#11	12"	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4"	2'-3"	1'-9 3/4"	2'-7"
#18	24"	3'-0"	2'-4 1/2"	3'-5"



STIRRUP AND TIE HOOKS | **135 DEGREE -SEISMIC STIRRUP / TIE HOOKS**

BAR SIZE	D,in*	STIRRUP & TIE HOOK DIMENSIONS, in.*			135° STIRRUP - TIE HOOK DIMENSIONS, in.*	
			135° HOOKS		135° HOOKS	
		A or G	A or G	H APPROX.	A or G	H APPROX.
#3	1 1/2"	4"	4"	2 1/2"	4 1/4"	3"
#4	2"	4 1/2"	4 1/2"	3"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	6"	10 1/2"	6"

* GRADES 40, 50 and 60

TYPICAL BAR HOOK DETAILS

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NOT FOR CONSTRUCTION

LEGENDS, SCHEDULES AND REBAR TABLES
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
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2429 Members Way
Lexington, KY 40504
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

Project No: 1843
Drawn By: CCA / AO
Rev'd By: CH/DH

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SCHEMATIC DESIGN

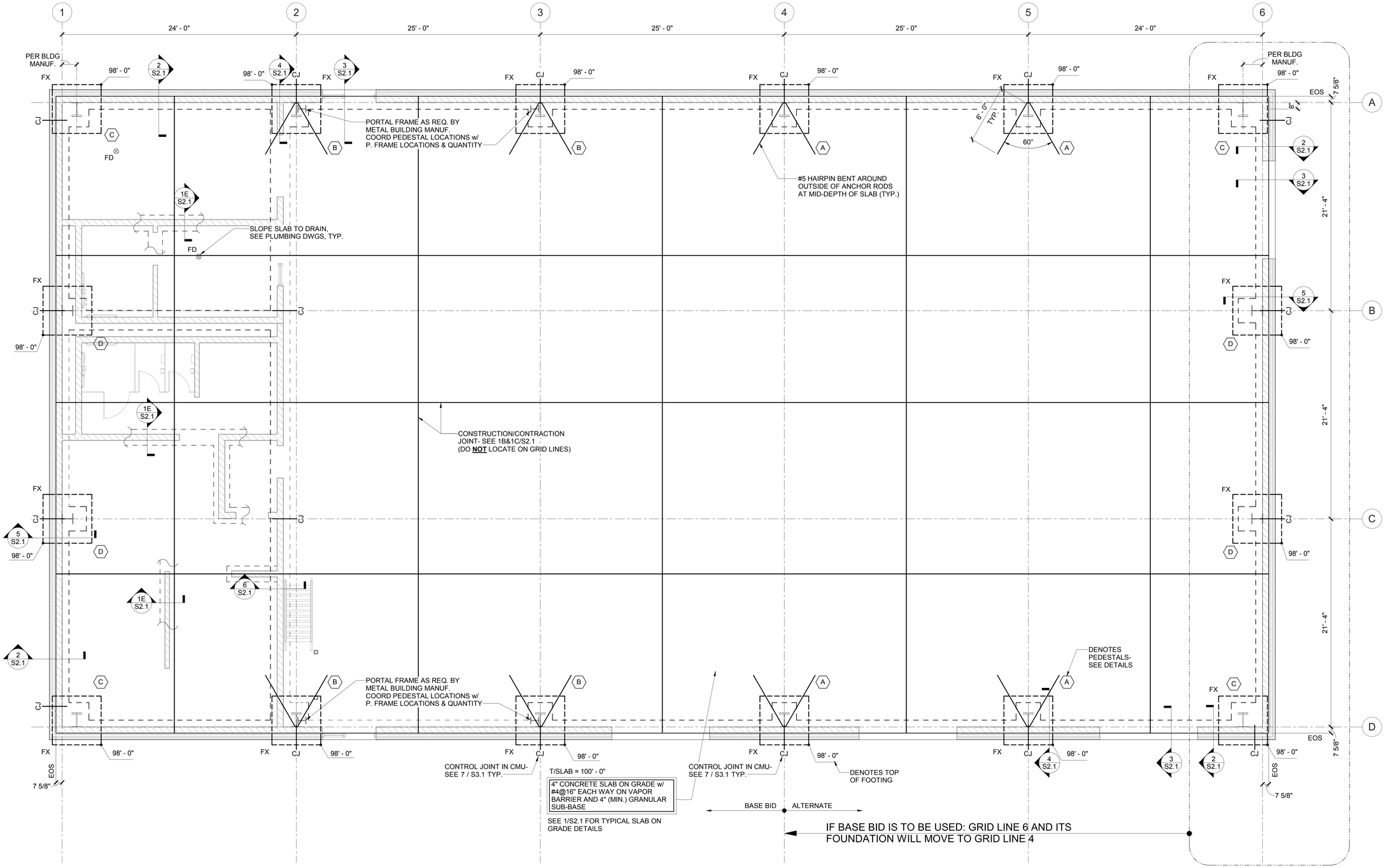
S0.5

LEGENDS, SCHEDULES AND REBAR TABLES
DATE ISSUED:
12/11/2018

PRE-ENGINEERED METAL BUILDING SYSTEM. REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS. DESIGN STRUCTURE TO SUPPORT ALL ITEMS ATTACHED TO THE STRUCTURE SUCH AS CEILING, MECHANICAL EQUIPMENT, RIGGING, ETC. COORDINATE WITH THE STRUCTURAL, ARCHITECTURAL, AND MPE DOCUMENTS.

FOOTING SCHEDULE

MARK	SIZE	REINF.	REMARKS
FX	-	-	TOP & BOTTOM



FOUNDATION PLAN

1/4" = 1'-0"

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.3046

NOT FOR CONSTRUCTION

FOUNDATION PLAN
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

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Project No: 1843
Drawn By: CCA / AO
Rev'd By: CH/DH

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SCHEMATIC DESIGN

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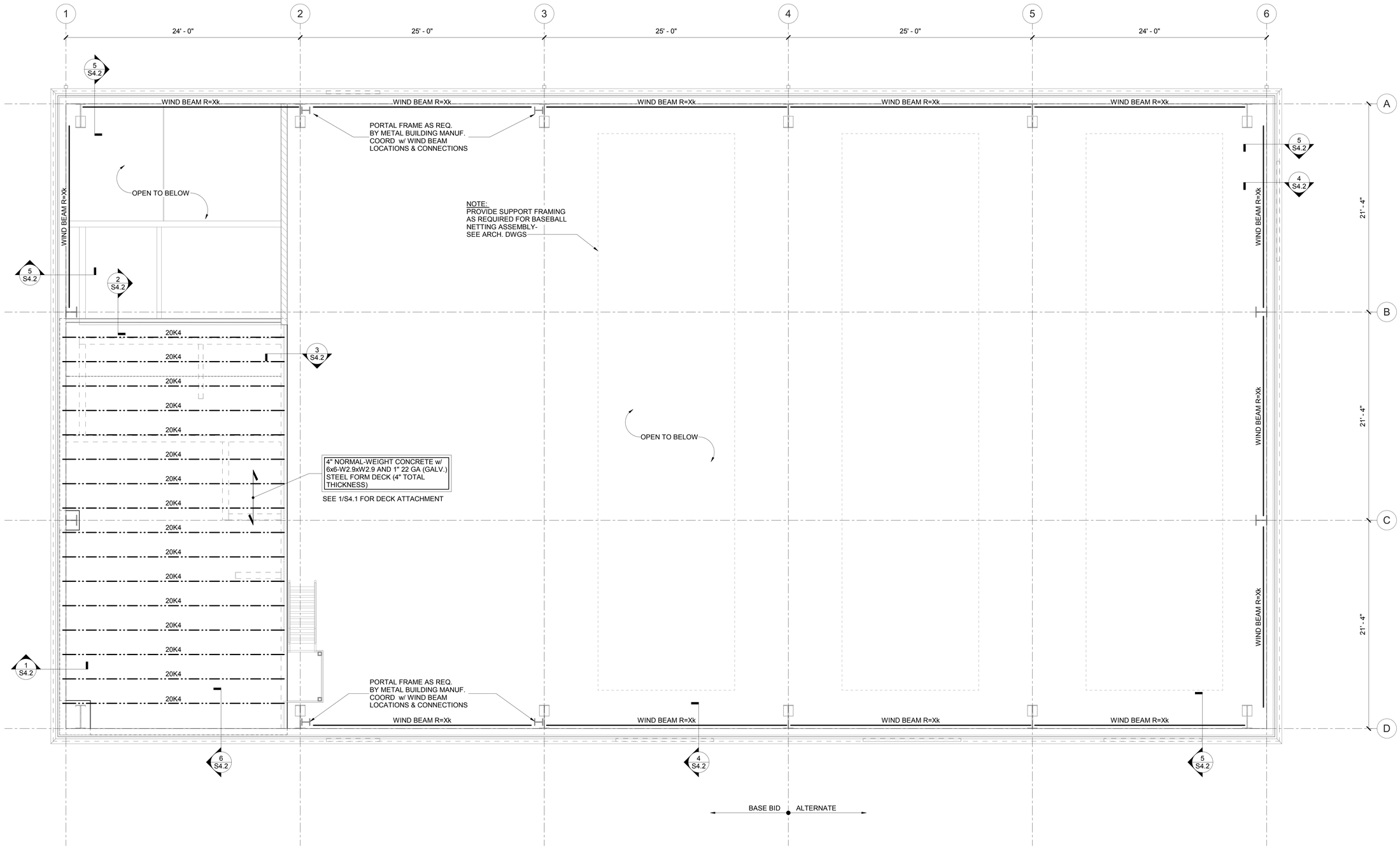
FOUNDATION PLAN

DATE ISSUED:
12/11/2018



MEZZANINE FRAMING PLAN

1/4" = 1'-0"

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NOT FOR CONSTRUCTION

MEZZANINE FRAMING PLAN
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

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Project No:	1843
Drawn By:	CCA / AO
Rev'd By:	CH/DH

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SCHEMATIC DESIGN

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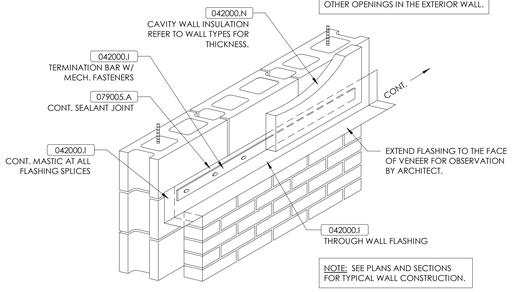
MEZZANINE FRAMING PLAN

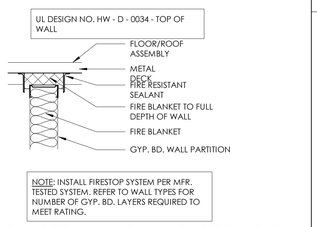
DATE ISSUED:
12/11/2018

REVISIONS

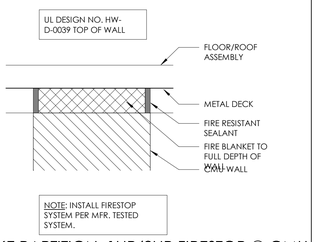
#	DATE	DESCRIPTION



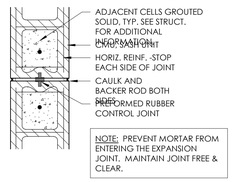
TYPICAL WALL FLASHING DETAIL
N.T.S.



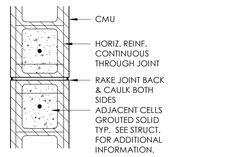
SMOKE PARTITION, 1HR/2HR FIRESTOP @ GWB
N.T.S.



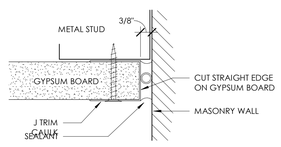
SMOKE PARTITION, 1HR/2HR FIRESTOP @ CMU
N.T.S.



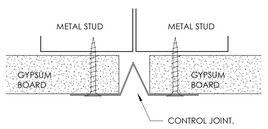
TYP. CMU CONTROL JOINT DETAIL
1 1/2" = 1'-0"



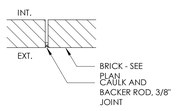
TYP. CMU EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



TYP. REVEAL @ GWB/MASONRY INTERSECTION
N.T.S.



TYP. REVEAL/EXPANSION JOINT DETAIL
N.T.S.



TYP. BRICK EXPANSION JOINT DETAIL
1 1/2" = 1'-0"

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
AL/ALUM.	ALUMINUM
ARCH.	ARCHITECT/ ARCHITECTURAL
BD.	BOARD
BIT.	BITUMINOUS
BLKG.	BLOCKING
BLDG.	BUILDING
B.O.	BOTTOM OF SOMETHING
BRG.	BEARING
C.J.	CONTRACTION/ CONSTRUCTION JOINT
CL.	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL.	DOUBLE
DIA.	DIAMETER
DS.	DOWNSPOUT
DWG.	DRAWING
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
EQ.	EQUAL
EQUIP.	EQUIPMENT
ELEV.	ELEVATOR
E.O.S.	EDGE OF SLAB
E.R.D.	EMERGENCY ROOF DRAIN OVERFLOW
E.T.R.	EXISTING TO REMAIN
EXP.	EXPANSION
EXT.	EXTERIOR
FAB.	FABRICATE/ FABRICATION
FDN.	FOUNDATION
F.F.E.	FINISH FLOOR ELEVATION
F.G.E.	FINISH GRADE ELEVATION
FIN.	FINISH
FLR.	FLOOR/ FLOORING
F.RT.	FIRE RETARDENT
FT.	FEET
F.V.	FIELD VERIFY
GA.	GUAGE
GALV.	GALVANIZED
GYP.	GYPSUM
HORZ.	HORIZONTAL
HT.	HEIGHT
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
LAM.	LAMINATE
MAS.	MASONRY
M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING
MFR.	MANUFACTURER
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEM.	MEMBRANE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.H.	OVERHEAD
OPP.	OPPOSITE
ORN.	ORNAMENTAL
PEN.	PENETRATION
PL.	PLATE
POLYISO.	POLYISOCYANURATE
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
RAD.	RADIUS
R.D.	ROOF DRAIN
REINF.	REINFORCEMENT
RQD.	REQUIRED
REV.	REVISION/ REVISED
SECT.	SECTION
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
S.S.	STAINLESS STEEL
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURE/ STRUCTURAL
SYM.	SYMMETRICAL
SYS.	SYSTEM
T.O.	TOP OF SOMETHING
THK.	THICK
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
W.P.	WORK POINT
WT.	WEIGHT

SYMBOLS LEGEND:

- BUILDING SECTION
- SECTION CUT / DETAIL MARKER
- ELEVATION
- REFERENCE DETAIL
- SPOT ELEVATION
- ROOF TYPES
- WALL TYPES, X" DENOTES SIZE OF CMU OR STUD.
- DOOR NUMBER
- HOLLOW METAL WINDOW & DOOR FRAME TYPE
- ALUMINUM WINDOW & STOREFRONT FRAME TYPE
- DOOR ELEVATION TYPES
- FE-1 WALL MOUNTED FIRE EXTINGUISHER (104400)
- FE-2 SEMI-RECESSED CABINET WITH FIRE EXTINGUISHER (104400)

FIRE BARRIER TYPES:

- SP — SMOKE TIGHT PARTITION: EXTEND PARTITION WALL TO DECK ABOVE. SEAL PERIMETER TO PROVIDE 'SMOKE TIGHT INSTALLATION'. SEAL ALL PENETRATIONS
- 1HR — 1 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.
- 2HR — 2 HOUR RATING: PROVIDE FIRE SAFING AT VOIDS AT THE TOP PERIMETER OF THE PARTITION AND FIRESAFE ALL PENETRATIONS. VERIFY WITH STRUCTURAL DRAWINGS AND COORDINATE WITH WALL SECTIONS.

GENERAL PLAN NOTES

1. (NIC)-NOT IN CONTRACT. PROVIDED BY OWNER AND INSTALLED BY OTHERS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
3. ALL DIMENSIONS ARE TO FACE OF STUDS, MASONRY OR TO CENTERLINE OF STRUCTL STEEL UNLESS OTHERWISE NOTED. CONTACT ARCHITECT WITH ANY QUESTIONS REGARDING DIMENSIONS.
4. MASONRY DIMENSIONS ARE ACTUAL. EXTERIOR WALL DIMENSIONS ARE TO EXTERIOR FACE OF VENEER.
5. REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8" PLANS.
6. ALL EXTERIOR WALLS ARE WALL TYPE 'A' UNLESS INDICATED OTHERWISE.
7. ALL INTERIOR PARTITIONS ARE WALL TYPE '1' UNLESS INDICATED OTHERWISE.
8. PROVIDE BULLNOSE UNITS AT ALL VERTICAL OUTSIDE CONCRETE BLOCK CORNERS UNLESS OTHERWISE NOTED.
9. PARTITION TYPES SHALL MAINTAIN THEIR CONSTRUCTION AND RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC., AND PLUMBING PENETRATIONS SHALL BE SEALED / SAFED / DAMPERED AS REQ'D TO COMPLY WITH APPLICABLE CODES.
10. REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZES, LOCATIONS, CONNECTIONS, REINFORCEMENT AND OTHER REQ. PERTAINING TO STRUCTURAL COMPONENTS INDICATED.
11. REFER TO STRUCTURAL DRAWINGS FOR LINTEL SCHEDULE. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED.
12. VERIFY REQ'D DEPTH OF ALL RECESSED SLABS w/ APPROPRIATE FINISH FLOORING MANUFACTURER PRIOR TO PLACEMENT OF SLAB.
13. MASONRY OPENINGS IN CMU WALLS FOR DOORS ARE TYPICALLY LOCATED 8" FROM THE JAMB OPENING TO THE ADJACENT WALL UNLESS NOTED OTHERWISE.
14. DOORS IN GYPSUM BOARD WALLS ARE TYPICALLY LOCATED 6" FROM THE DOOR JAMB OPENING TO THE ADJACENT WALL UNLESS NOTED OTHERWISE. WHERE DOORS HAVE 180 DEGREE SWING IN CMU WALL, PROVIDE 3/4" SET BACK FROM FACE OF WALL OF SWING SIDE. COORDINATE WITH MASON.
15.

GENERAL WALL NOTES

1. REFER TO FLOOR PLANS FOR LOCATION OF PARTITION AND WALL TYPES DESCRIBED ON THIS DRAWING.
2. REFER TO STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS PERTAINING TO REINFORCED UNIT MASONRY.
3. CONTRACTOR SHALL INSTITUTE ALL MEASURES NECESSARY TO ACHIEVE WEATHERTIGHTNESS OF EXTERIOR WALLS BY ALLOWING POSITIVE DRAINAGE OF WATER TO THE EXTERIOR TO OCCUR WHERE THROUGH-WALL FLASHING IS INDICATED OR REQUIRED. A) KEEP ALL DRAINAGE CAVITIES IN CAVITY WALLS FREE OF MORTAR. B) PAN-UP THROUGH-WALL FLASHING AT BACK EDGES AND ENDS MINIMUM 6 INCHES. EXTEND THROUGH-WALL FLASHING TO THE FACE OF MASONRY VENEER FOR OBSERVATION BY THE ARCHITECT. C) AT MASONRY WALLS, PROVIDE WEEPS AND CAVITY VENTS AT 24" O.C. HORIZONTALLY, ALTERNATE LOCATIONS OF WEEPS WITH CAVITY VENTS. DO NOT ALLOW WEEPS OR CAVITY VENTS TO BECOME CLOSED OFF. D) REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PLACEMENT AND INSTALLATION OF THROUGH-WALL FLASHING, WEEPS AND CAVITY VENTS.
4. AT MASONRY VENEER/METAL STUD WALL ASSEMBLIES AND MASONRY VENEER/CMU WALLS PROVIDE THROUGH-WALL FLASHING WITH WEEPS AND CAVITY VENTS AT 24" O.C. - ALTERNATING LOCATIONS. ADHESIVE INSTALL THROUGH-WALL FLASHING ON SHEATHING ON STUDS, OR CMU, UPWARD MIN. 6" AND PAN-UP THROUGH-WALL FLASHING AT ENDS MINIMUM 6". DO NOT MECHANICALLY FASTEN, PENETRATE, OR PUNCTURE THROUGH-WALL FLASHING. THROUGH-WALL FLASHING TO DIRECT ALL MOISTURE TO EXTERIOR FACE OF WALL. KEEP ALL DRAINAGE CAVITIES FREE OF MORTAR.
5. UNLESS NOTED OTHERWISE, ALL EXTERIOR AND INTERIOR MASONRY AND/OR MTL. STUD WALLS SHALL EXTEND FULL HEIGHT TO BOTTOM OF DECK AND BE SEALED. REFER TO REFLECTED CEILING PLAN. PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF EXTERIOR AND INTERIOR MASONRY AND METAL STUD WALLS AND PARTITIONS. A) FULL HEIGHT, NON-RATED MTL STUD/GYP PARTITION RUNNING PERPENDICULAR TO METAL DECK FLUTE/STRUCTURE: COPE GYP TO WITHIN 1/2" OF METAL DECK FLUTE. FILL METAL DECK FLUTE VOID COMPLETELY WITH SOUND ATTENUATION BLANKET MATERIAL. INSTALL CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER. B) FULL HEIGHT, NON-RATED METAL STUD/GYP PARTITION RUNNING PARALLEL TO METAL DECK FLUTES/STRUCTURE: STOP GYP TO WITHIN 1/2" OF METAL DECK. INSTALL CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES OR PROVIDE COMPRESSIBLE NEOPRENE FILLER. C) FULL HEIGHT, NON-RATED CMU WALL RUNNING PERPENDICULAR OR PARALLEL TO METAL DECK FLUTES/STRUCTURE: LAY CMU TO WITHIN 1" OF METAL DECK. FILL METAL DECK FLUTE VOID COMPLETELY WITH CUT TO FIT COMPRESSIBLE NEOPRENE FILLER OR SOUND ATTENUATION BLANKET MATERIAL AND CONTINUOUS ACOUSTICAL SEALANT BOTH SIDES. D) FIRE RATED FULL HEIGHT WALLS: FILL ALL VOIDS, AT METAL DECK/ STRUCTURE ABOVE, WITH FIRE BLANKETS AND INTUMESCENT SEALANT PER SECTION 078400. REFER TO DETAILS ON THIS SHEET. E) CMU & GYP. BD. COLUMN SURROUNDS MAY BE STOPPED 12" ABOVE CEILING UNLESS PART OF A FIRE OR SOUND RATED WALL CONSTRUCTION.
6. PROVIDE CAULKED CONTROL JOINTS WHERE LOAD BEARING CMU ABUTS NON-LOAD BEARING CMU OR WHERE WALLS OF DIFFERENT HEIGHTS ABUT.

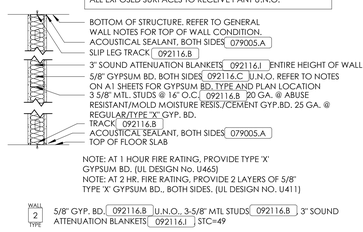
MATERIALS LEGEND:

- CONCRETE
- CONCRETE MASONRY UNIT
- CLAY MASONRY UNIT
- SPLIT-FACE CONCRETE MASONRY UNIT
- GROUND-FACE CONCRETE MASONRY UNIT
- CUT STONE
- STEEL
- ALUMINUM
- FINISHED WOOD
- PLYWOOD
- WOOD BLOCKING
- CAVITY WALL INSULATION/PERLITE ROOFING INSULATION
- POLYISO. ROOFING INSULATION
- THERMAL, SOUND, OR FIRE BAFF-INSULATION
- GYPSUM BOARD
- SPRAY-IN-PLACE THERMAL INSULATION

MASTER MATERIAL REFERENCE

033000.B	Foundation Wall
033000.E	Isolation Joint Material
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.H	Vents and Weeps
042000.J	Through Wall Flashing
042000.J	Mortar Deflection Material
042000.K	Grout
042000.L	Masonry Reinforcement
042000.N	Cavity Wall Insulation
042000.O	Bond Beam
044200.B	Cut Stone
047200.A	Cast Stone Masonry Units
051200.A	Structural Steel Member
054100.A	Cold Form Exterior Wall Framing
055000.A	Ship's Ladder
055000.E	Steel Framing and Support
055213.A	Steel Component Railing
061000.A	Wood Blocking
061000.B	Plywood Sheathing
064100.A	Custom Casework
064100.A13	Plastic Laminate Enclosure Panel
064100.C	Window Sill
064100.C6	Solid-Surface Countertop
064100.C8	Solid-Surface Countertop & Backsplash
071113.A	Bituminous Dampproofing
071300.A	Underslab Vapor Barrier
072100.B	Perimeter Foundation Board Insulation
072100.C	Thermal Batt Insulation
072100.D	Sprayed-In-Place Thermal Insulation
072100.E	Extruded Polystyrene Board Insulation
072100.F	Transition Membrane
072119.A	Foamed-In-Place Insulation
074113.B	Metal Soffit Panels
074113.G	Metal Wrap and Trim
074113.J	Drip Edge
074213.A	Metal Wall Panels
074213.B	Metal Soffit Panels
075400.A	Thermoplastic Membrane Roofing System
075400.D	Polyisocyanurate Insulation
075400.E	Cover Board
075400.F	Drip Edge
078400.A	Through-Penetration Fire Stop System
079005.A	Joint Sealant
081113.A	Steel Doors & Frames
081113.C	Steel Frame
083313.A	Coiling Counter Door
083323.A	Overhead Coiling Door
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
084500.A	Translucent Wall System
088000.A	Glazing
088300.A	Mirrors
092116.A	Gypsum Board Assemblies
092116.B	Metal Studs and Runners
092116.C	Gypsum Board-Regular/Type 'X'
092116.E	Hat Channels
092116.J	Sound Attenuation Blankets
096513.A	Resilient Wall Base & Accessories
099000.A	Paint
101550.A	Toilet Compartment
102800.A	Toilet & Bath Accessories
105050.A	Metal Lockers
116623.B	Wall-Mounted Safety Pad
133419.A	Metal Building - Structural Framing
133419.B	Metal Building - Roof Panel
133419.C	Metal Building - Wall Panel
133419.E	Metal Building - Insulation
133419.F	Metal Building - Gutter and Downspout
133419.G	Metal Building - Flashing and Trim

NOTE: ALL GYPSUM BOARD SURFACES 12" AND ABOVE SUSPENDED CEILING TO RECEIVE LEVEL 1 FINISH. EXTEND AND SEAL WALL TO BOTTOM OF DECK/STRUCTURE ABOVE ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.

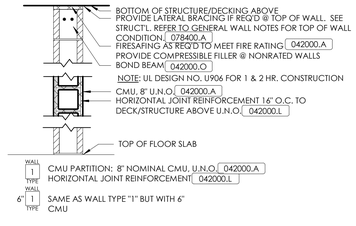


NOTE: AT 1 HOUR FIRE RATING, PROVIDE TYPE 'X' GYPSUM BD. (UL DESIGN No. U465)
NOTE: AT 2 HR. FIRE RATING, PROVIDE 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BD., BOTH SIDES. (UL DESIGN NO. U411)

WALL 2 TYPE — 5/8" GYP. BD. 092116.B | U.N.O., 3-5/8" MTL STUDS 092116.B | 3" SOUND ATTENUATION BLANKETS 092116.J | STC=49

INTERIOR GYPSUM BOARD - PARTITION TYPE '2'
N.T.S.

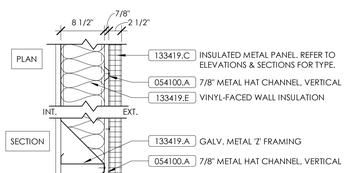
NOTE: IF JOIST OR BEAM LOCATION INTERFERES WITH NON-LOAD BEARING CMU WALL EXTENDING TO DECK ABOVE, EXTEND CMU WALL TO 8" ABOVE FINISHED CEILING HEIGHT AND CONTINUE WALL TO DECK ABOVE WITH WALL TYPE 2. REFER TO STRUC. FOR BRACING. EXTEND AND SEAL WALL TO BOTTOM OF DECK ABOVE PER GENERAL WALL NOTES. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.



WALL 1 TYPE — CMU PARTITION: 8" NOMINAL CMU, U.N.O. 042000.A | HORIZONTAL JOINT REINFORCEMENT 042000.L

6" WALL 1 TYPE — SAME AS WALL TYPE "1" BUT WITH 6" CMU

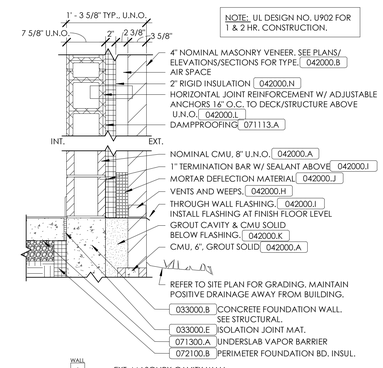
INTERIOR CMU - PARTITION TYPE '1'
N.T.S.



WALL B TYPE — EXTERIOR P.E.M.B WALL:

133419.C	2 1/2" INSULATED METAL PANEL, HORIZONTAL
054100.A	7/8" METAL HAT CHANNEL, VERTICAL
133419.A	GALV. METAL 'Z' GIRT WALL FRAMING, HORIZONTAL
133419.C	INTERIOR METAL LINER PANEL. REFER TO PLANS FOR LOCATIONS.

EXTERIOR WALL TYPE 'B'
N.T.S.



WALL A TYPE — EXT. MASONRY CAVITY WALL:

042000.B	MASONRY VENEER
	AIRSPACE
042000.N	2" RIGID INSULATION
071113.A	DAMPPROOFING
042000.A	CMU, 8" U.N.O.

NOTE: SEAL CMU TO DECK ABOVE W/ COMPRESSIBLE FILLER OR FIRESAFING TO MEET UL DESIGN. ALL EXPOSED SURFACES TO RECEIVE PAINT U.N.O.

EXTERIOR WALL TYPE 'A'
N.T.S.

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

GENERAL ARCHITECTURAL DETAILS
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

SHEET RELEASE

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4		
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7		
8		

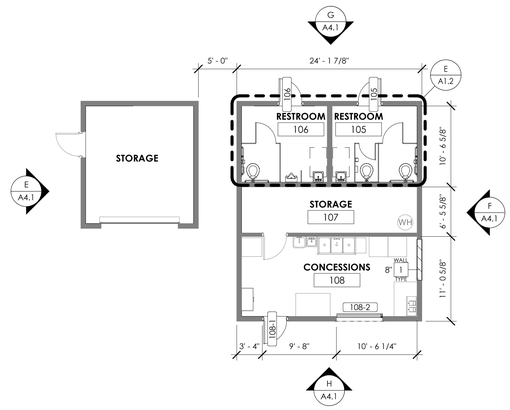
SCHEMATIC DESIGN

A0.1

GENERAL ARCHITECTURAL DETAILS
DATE ISSUED:
12/12/2018

REVISIONS

#	DATE	DESCRIPTION



CONCESSIONS FLOOR PLAN
1/8" = 1'-0"
B A1.1

MATERIAL REFERENCE

055213.A	Steel Component Railing
105050.A	Metal Lockers

PLAN NOTES

#	
1	PROVIDE ABUSE RESISTANT GYP. BD. (092116.G) TO 8'-0" A.F.F. IN ROOM #___.
2	PROVIDE CEMENT BOARD (092116.L) AT WALLS WITH TILE, AND MOLD/MOISTURE GYP. BD. (092116.H) ABOVE AND ON OTHER WALLS IN ROOM #___.
3	PROVIDE MOLD/MOISTURE GYP. BD. (092116.H) IN ROOM #___.
4	PROVIDE IMPACT RESISTANT GYP. BD. (092116.F) IN ROOM #___.

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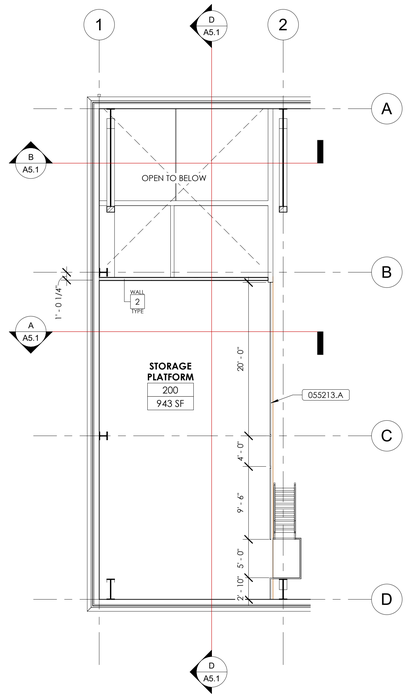
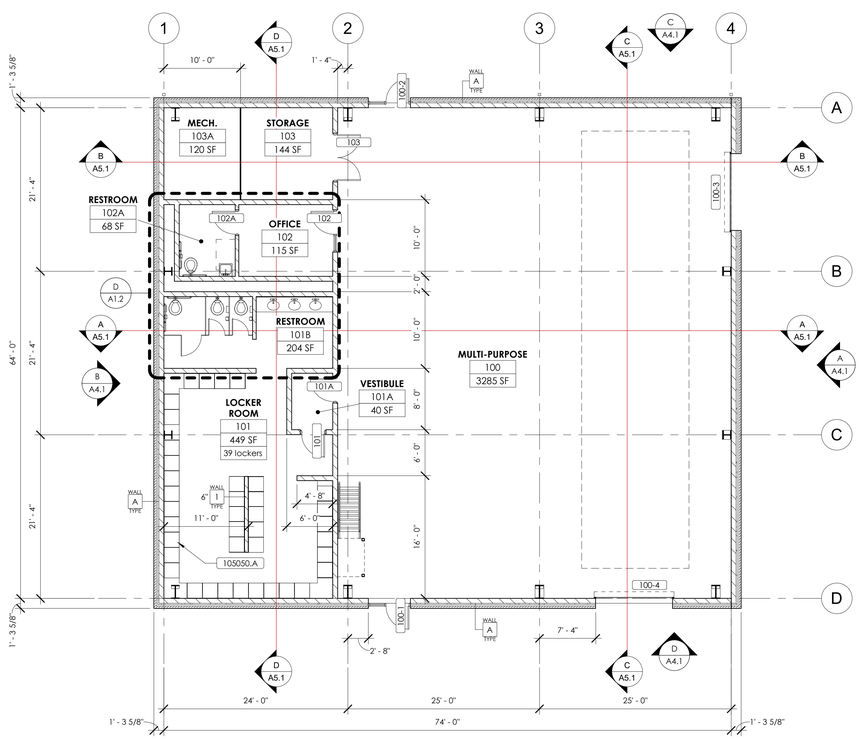
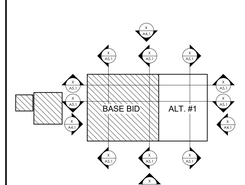


MEZZANINE LEVEL
1/8" = 1'-0"
C A1.1



FIELD HOUSE FLOOR PLAN - BASE BID
1/8" = 1'-0"
A A1.1

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

FLOOR PLANS

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE

FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

SHEET RELEASE

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SCHEMATIC DESIGN

A1.1

FLOOR PLANS

DATE ISSUED:
12/12/2018

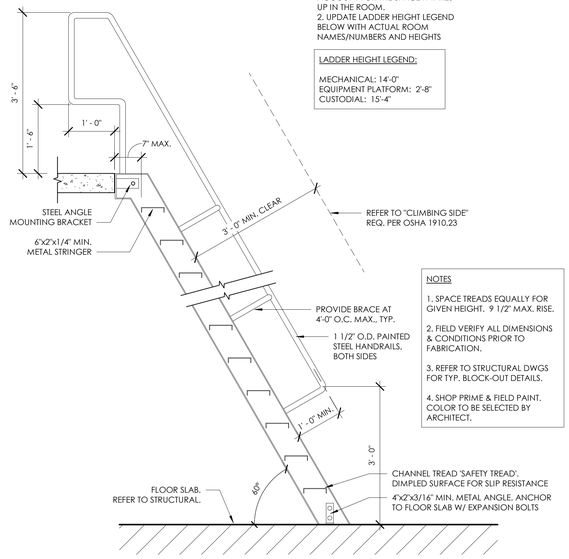
REVISIONS

#	DATE	DESCRIPTION

DESIGNER NOTE DELETE THIS NOTE BEFORE PRINTING:
1. WHEN LAYING OUT THE LADDER, ACCOUNT FOR THE SPACE IT TAKES UP IN THE ROOM.
2. UPDATE LADDER HEIGHT LEGEND BELOW WITH ACTUAL ROOM NAMES/NUMBERS AND HEIGHTS

LADDER HEIGHT LEGEND:

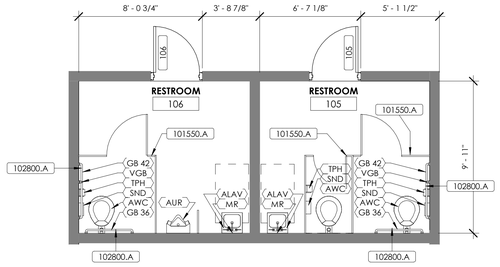
MECHANICAL: 14'-0"
EQUIPMENT PLATFORM: 2'-8"
CUSTODIAL: 15'-4"



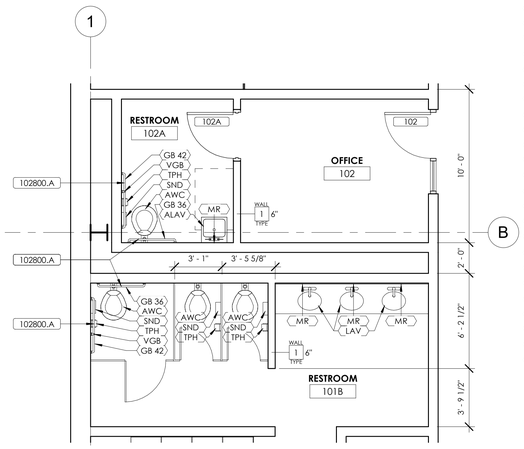
NOTES

1. SPACE TREADS EQUALLY FOR GIVEN HEIGHT. 9 1/2" MAX. RISE.
2. FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO FABRICATION.
3. REFER TO STRUCTURAL DWGS FOR TYP. BLOCK-OUT DETAILS.
4. SHOP PRIME & FIELD PAINT. COLOR TO BE SELECTED BY ARCHITECT.

SLOPED LADDER DETAIL — F A1.2
3/4" = 1'-0"



CONCESSIONS RESTROOM PLAN — E A1.2
1/4" = 1'-0"



FIELD HOUSE RESTROOM PLAN — D A1.2
1/4" = 1'-0"

MATERIAL REFERENCE

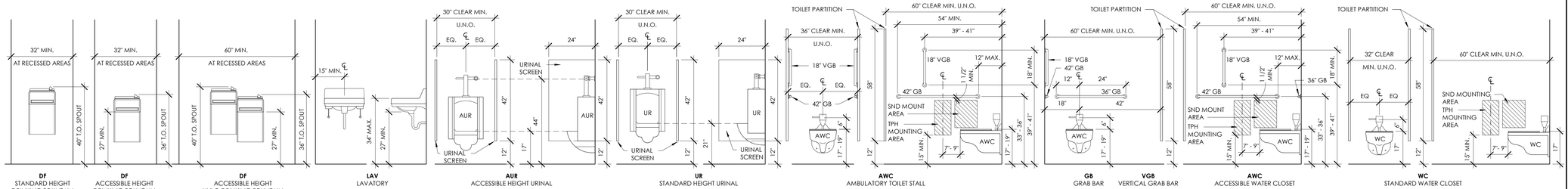
101550.A	Toilet Compartment
102800.A	Toilet & Bath Accessories

NOTES:

1. COORDINATE ALL PLUMBING FIXTURES AND TOILET ACCESSORIES WITH THE PLUMBING ENGINEER.
2. THE FOLLOWING ITEMS SHALL BE PROVIDED AND INSTALLED BY THE OWNER: PTD, TPH, SD.

TOILET ACCESSORY LEGEND

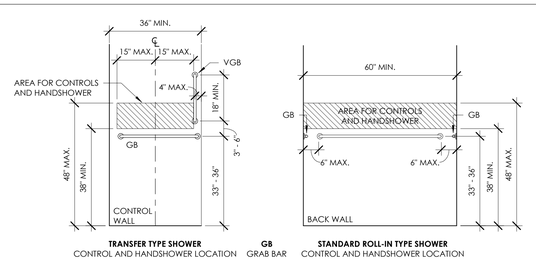
ALAV	ACCESSIBLE LAVATORY
AUR	ACCESSIBLE URINAL
AWC	ACCESSIBLE WATER CLOSET
BCS	BABY CHANGING STATION
CH	COAT HOOK
DF	DRINKING FOUNTAIN
EHD	ELECTRIC HAND DRYER
FD	FLOOR DRAIN - REFER TO MEP
FSS	FOLDING SHOWER SEAT
GB	SHOWER GRAB BAR
GB 24	24" GRAB BAR
GB 36	36" GRAB BAR
GB 42	42" GRAB BAR
LAV	LAVATORY
MBH	MOP AND BROOM HANGER
MR	MIRROR
MS	MOP SINK
PTD	PAPER TOWEL DISPENSER
RH	ACCESSIBLE ROBE HOOK
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SDH	SOAP DISH HOLDER
SND	SANITARY NAPKIN DISPOSAL
SS	SHOWER SEAT
TPH	TOILET PAPER HOLDER
UR	STANDARD HEIGHT URINAL
VGB	18" VERTICAL GRAB BAR
WC	STANDARD WATER CLOSET



DF STANDARD HEIGHT DRINKING FOUNTAIN
DF ACCESSIBLE HEIGHT DRINKING FOUNTAIN
DF ACCESSIBLE HEIGHT HI/LO DRINKING FOUNTAIN
LAV LAVATORY
AUR ACCESSIBLE HEIGHT URINAL
UR STANDARD HEIGHT URINAL
AWC AMBULATORY TOILET STALL
GB GRAB BAR
VGB VERTICAL GRAB BAR
AWC ACCESSIBLE WATER CLOSET
WC STANDARD WATER CLOSET

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

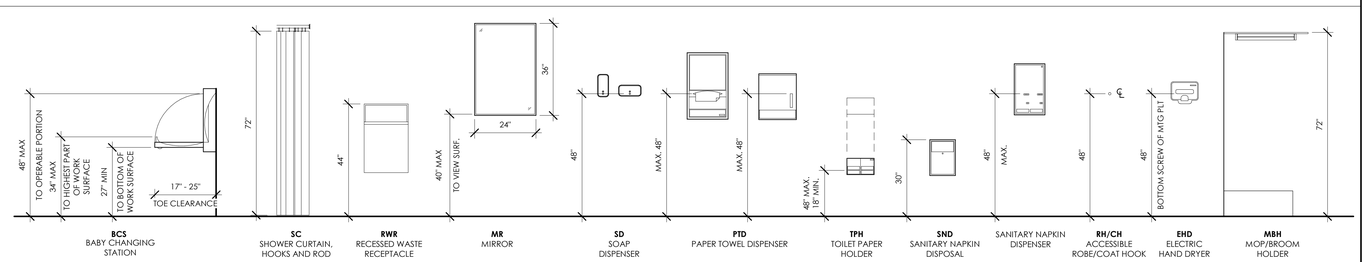
PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS — C A1.2
1/2" = 1'-0"



TRANSFER TYPE SHOWER CONTROL AND HANDSHOWER LOCATION
GB GRAB BAR
STANDARD ROLL-IN TYPE SHOWER CONTROL AND HANDSHOWER LOCATION

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

SHOWER CONTROLS — B A1.2
1/2" = 1'-0"



BCS BABY CHANGING STATION
SC SHOWER CURTAIN, HOOKS AND ROD
RWR RECESSED WASTE RECEPTACLE
MR MIRROR
SD SOAP DISPENSER
PTD PAPER TOWEL DISPENSER
TPH TOILET PAPER HOLDER
SND SANITARY NAPKIN DISPOSAL
SANITARY NAPKIN DISPENSER
RH/CH ACCESSIBLE ROBE/COAT HOOK
EHD ELECTRIC HAND DRYER
MBH MOP/BROOM HOLDER

(NOTE: SOME ITEMS SHOWN MAY NOT BE APPLICABLE TO THE PROJECT)

TOILET ACCESSORIES, DEVICE, AND EQUIPMENT MOUNTING HEIGHTS — A A1.2
1/2" = 1'-0" 102800.A

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101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

ENLARGED FLOOR PLANS
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

SHEET RELEASE

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SCHEMATIC DESIGN

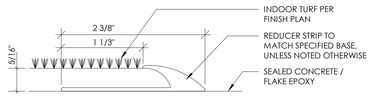
A1.2

ENLARGED FLOOR PLANS

DATE ISSUED:
12/12/2018

REVISIONS

#	DATE	DESCRIPTION



JOHNSONITE EDGE GUARD TRANSITION STRIP EG-XXX-G (COLOR:TBD)
HEIGHT OF REDUCER STRIP MAY CHANGE BASED ON INDOOR TURF HEIGHT

TRANSITION @ TURF / SEALED CONC. F A2.0
12" = 1'-0"

ROOM FINISH SCHEDULE

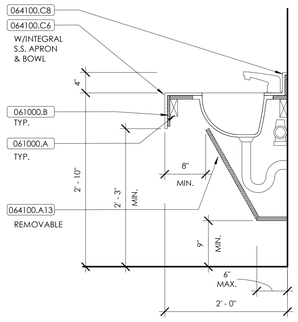
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	PLAN NORTH WALL	PLAN EAST WALL	PLAN SOUTH WALL	PLAN WEST WALL	CEILING FINISH	Sign Type	COMMENTS
100	MULTI-PURPOSE	Indoor Turf Flooring	RB1	P1	P1	P1	P1	P3 Paint Exposed	Type 1 (Exterior Mount; Qty. 2) & Type 4 (Qty. 2)	Refer to A8.1 for Alternate #1
100	MULTI-PURPOSE									
101	LOCKER ROOM	SC1	RB1	P1	P1	P1	P1	ACT1	N/A	
101A	VESTIBULE	SC1	RB1	P1	P1	P1	P1	ACT1	Type 3	
101B	RESTROOM	SC1	RB1	P1	P1	P1	P1	P3	N/A	
102	OFFICE	SC1	RB1	P1	P1	P1	P1	ACT1	Type 2	
102A	RESTROOM	SC1	RB1	P1	P1	P1	P1	P3	N/A	
103	STORAGE	SC1	RB1	P1	P1	P1	P1	P3 Paint Exposed	Type 1	
103A	MECH.	SC1	RB1	P1	P1	P1	P1	P3 Paint Exposed	N/A	
105	RESTROOM	ETR	ETR	P1	P1	P1	P1	P3	Type 3 (Exterior Mount)	
106	RESTROOM	ETR	ETR	P1	P1	P1	P1	P3	Type 3 (Exterior Mount)	
107	STORAGE	ETR	ETR	P1	P1	P1	P1	P3	Type 1	
108	CONCESSIONS	ETR	ETR	P1	P1	P1	P1	P3	Type 1 (Exterior Mount)	
109	STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	Type 1 (Exterior Mount)	
200	STORAGE PLATFORM	SC1	N/A	P1	P1	P1	P1	P3 Paint Exposed	N/A	

FINISH LEGEND

SPEC SECTION	KEY	BASIS OF DESIGN
	ETR	EXISTING TO REMAIN
03 30 00	SC1	SEALED CONCRETE
06 41 00	HPL1	PLASTIC LAMINATE ENCLOSURE PANEL (TBD)
	SS1	SOLID SURFACE COUNTER - RESTROOM (TBD)
09 51 13	ACT1	ARMSTRONG 2X4 - TBD
09 65 13	RB1	TYP. 4"H RUBBER COVE BASE - COLOR NO.1
09 91 23	P1	PAINT - TYPICAL (TBD)
	P2	PAINT - ACCENT (TBD)
	P3	PAINT - CEILING (TBD)
	P4	PAINT - HOLLOW METAL DOOR FRAMES (TBD)
10 22 60	TC1	TOILET COMPARTMENTS - SCRANTON HINY HIDERS

MATERIAL REFERENCE

061000.A	Wood Blocking
061000.B	Plywood Sheathing
064100.A13	Plastic Laminate Enclosure Panel
064100.C6	Solid-Surface Countertop
064100.C8	Solid-Surface Countertop & Backsplash
088300.A	Mirrors
105050.A	Metal Lockers
116623.B	Wall-Mounted Safety Pad



PER ANSI ICC A117.1-2009; 306.3 & 306.2

PROVIDE MANUFACTURER'S ADA ACCESSIBLE SINK BASE CABINET DESIGN. ENSURE ALL DIMENSIONS, HEIGHTS AND CONSTRUCTION MEET ADA ACCESSIBILITY REQUIREMENTS. COORDINATE CABINET CONSTRUCTION WITH SINK SIZES AND LOCATIONS.

ADA ACCESSIBILITY GUIDELINES
4.19.2 LAVATORY HEIGHTS & CLEARANCES

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 IN (865 mm) ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 IN (735 mm)
ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON, THE FOLLOWING KNEE CLEARANCE
IS REQUIRED UNDERNEATH THE LAVATORY: 27 IN (685 mm) MINIMUM FROM THE FLOOR TO
THE UNDERSIDE OF THE LAVATORY WHICH EXTENDS 8 IN (205 mm) MINIMUM MEASURED FROM THE FRONT EDGE UNDERNEATH THE LAVATORY BACK TOWARDS THE WALL; IF A MINIMUM 9 IN (230 mm) OF TOE CLEARANCE IS PROVIDED, A MAXIMUM OF 6 IN (150 mm) OF THE 48 IN (1220 mm) OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE. (4.19.2, 4.19.6)

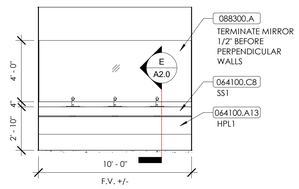
EXCEPTION 1: LAVATORIES USED PRIMARILY BY CHILDREN AGES 6 THROUGH 12 SHALL BE
PERMITTED TO HAVE AN APRON CLEARANCE AND A KNEE CLEARANCE 24 IN (610 mm) HIGH
MINIMUM PROVIDED THAT THE RIM OR COUNTER SURFACE IS NO HIGHER THAN 30 IN (760 mm).

EXCEPTION 2: LAVATORIES USED PRIMARILY BY CHILDREN AGES 5 AND YOUNGER SHALL NOT
BE REQUIRED TO MEET THESE CLEARANCES IF CLEAR FLOOR SPACE FOR A PARALLEL APPROACH COMPLYING WITH 4.2.4 IS PROVIDED.

FOR MORE INFORMATION, REFER TO: http://www.access-board.gov/adaag/html/adaag.htm#4.19

NOTE: SPEC. 064100

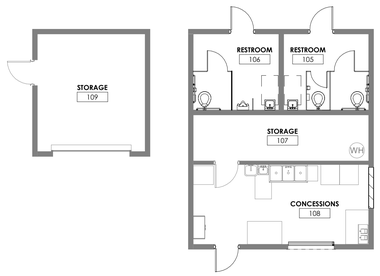
ADA SINK SECTION - 2 E A2.0
1" = 1'-0"



RESTROOM VANITY C A2.0
1/4" = 1'-0"

OPTIMUM MOUNTING HEIGHTS

ITEM (DIMENSION TO)	GRADE LEVEL				
	PRE-SCHOOL KINDERGARTEN	1 THRU 3	4 THRU 6	7 THRU 9	10 THRU 12
VISUAL DISPLAY BOARDS - MARKER, TACK, CHALK	TOP 70" BOTTOM 22"	TOP 73" BOTTOM 25"	TOP 77" BOTTOM 29"	TOP 80" BOTTOM 32"	TOP 80" BOTTOM 34"
COUNTERTOP: STANDING POSITION (TOP)	24"	26"	30"	34"	36"
DESKTOP/TABLETOP: SEATED POSITION (TOP)	18"	20"	23"	26"	27"
PANIC DEVICE DOOR HARDWARE (CENTERLINE)	27"	31"	36"	40"	42"
FIRE EXTINGUISHER CABINET (BOTTOM)	32"			40"	
FIRE EXTINGUISHER CABINET (CENTER OF VALVE LINE)	64"			64"	
COAT HOOK (CENTERLINE)	36"	41"	48"	54"	55"



CONCESSIONS FLOOR PLAN B A2.0
1/8" = 1'-0"

ROOM FINISH NOTES

1. ALL WALLS, GYPSUM BOARD CEILINGS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, ALL UNFINISHED SURFACES EXPOSED AFTER CONSTRUCTION IS COMPLETE SHALL RECEIVE PAINT UNLESS OTHERWISE NOTED.
2. ALL UNFINISHED EXTERIOR SURFACES INCLUDING CONCRETE BLOCK, STEEL LINTELS, ETC... WILL RECEIVE A PAINT SYSTEM. REFER TO THE SPECIFICATION FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLANS FOR WALL ASSEMBLY TYPES.
4. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ON CEILINGS AND SOFFIT LOCATIONS.
5. PROVIDE COLOR MATCHING CAULK AT THE INTERSECTION OF HOLLOW METAL FRAMES AND HARD SURFACE FLOORING, TYP.
6. ALL FURNITURE/EQUIPMENT SHOWN DASHED IS FOR REFERENCE ONLY AND IS NOT IN THIS CONTRACT.
7. ALL CASEWORK TOE KICK AREAS AND/OR OTHER CASEWORK SURFACES WHICH ABUT FLOOR FINISHES WILL RECEIVE RESILIENT BASE.
8. WHERE MARKERBOARDS AND TACKBOARDS ARE TOO WIDE FOR THE LOCATION INDICATED, THE SUPPLIER SHALL NOTIFY THE DESIGNER AND MODIFY THE WIDTH ACCORDINGLY.
9. IN SOME CASES MORE THAN ONE TYPE OF FLOORING AND/OR CEILING FINISH WILL OCCUR IN ONE SPACE - REFER TO FLOOR PLANS, REFLECTED CEILING PLANS, FINISH SCHEDULE AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. ALL LOUVERS, GRILLS, REGISTERS & DIFFUSERS SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.

SIGNAGE TYPES

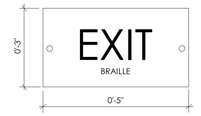
SEE SPECIFICATION 101424 FOR SIGN MANUFACTURING AND INSTALLATION DETAILS

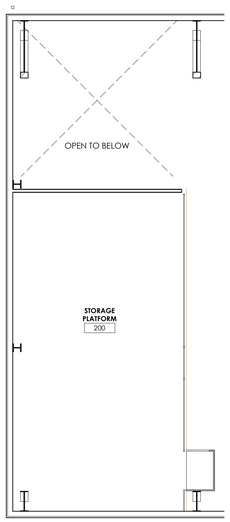
SIGN TYPE 1 (TYPICAL): TYPICAL 8"H X 8"W PANEL SIGN - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 2 (WITH WINDOW): TYPICAL 8"H X 8"W PANEL SIGN WITH OPENING FOR REMOVABLE PAPER INSERT- REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

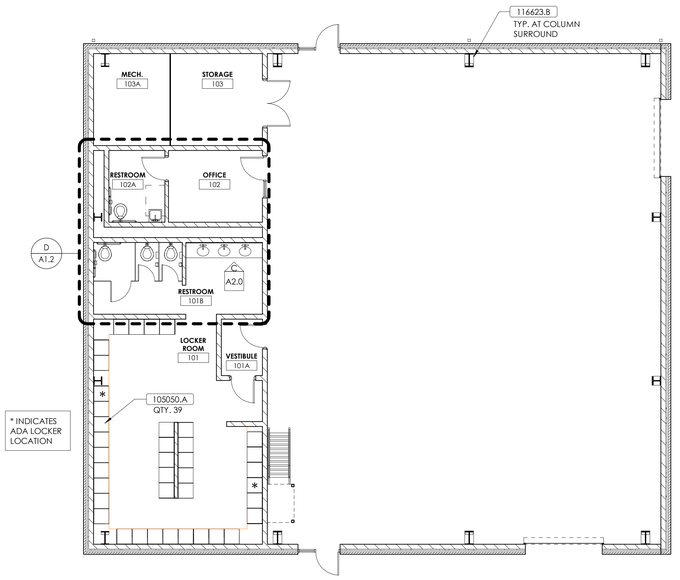
SIGN TYPE 3 (RESTROOM & OTHER SYMBOL SIGNS) : TYPICAL 8"H X 8"W PANEL SIGN WITH SYMBOL - REFER TO SPECIFICATION FOR DETAILS ON MATERIALS AND MECHANICAL MOUNTING DETAILS

SIGN TYPE 4 (EXIT) : 3"H X 5"W PANEL SIGN AS SHOWN BELOW THAT CONFORMS TO CODE STANDARDS. TWO SCREWS FOR MECHANICAL MOUNT.





MEZZANINE LEVEL D A2.0
1/8" = 1'-0"



FIELD HOUSE FLOOR PLAN - FF&E A A2.0
1/8" = 1'-0"

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.6018 f 859.231.5046

NOT FOR CONSTRUCTION

FLOOR PLAN(S) FF&E
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

Project No: 1843
Drawn By: TS, NS
Rev'd By: GH, KL

SHEET RELEASE

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SCHEMATIC DESIGN

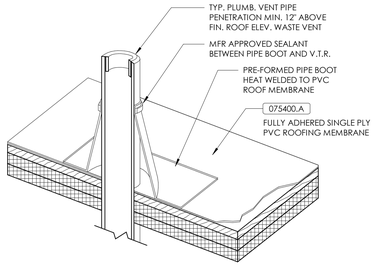
A2.0

FLOOR PLAN(S) FF&E

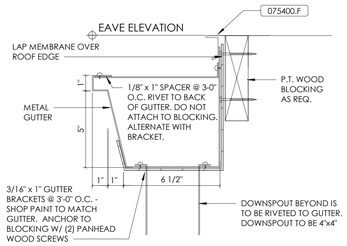
DATE ISSUED:
12/12/2018

REVISIONS

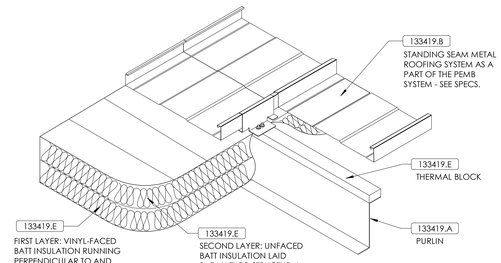
#	DATE	DESCRIPTION



TYP. WASTE STACK DETAIL
1" = 1'-0"
4 A3.1



GUTTER DETAIL
1" = 1'-0"
3 A3.1

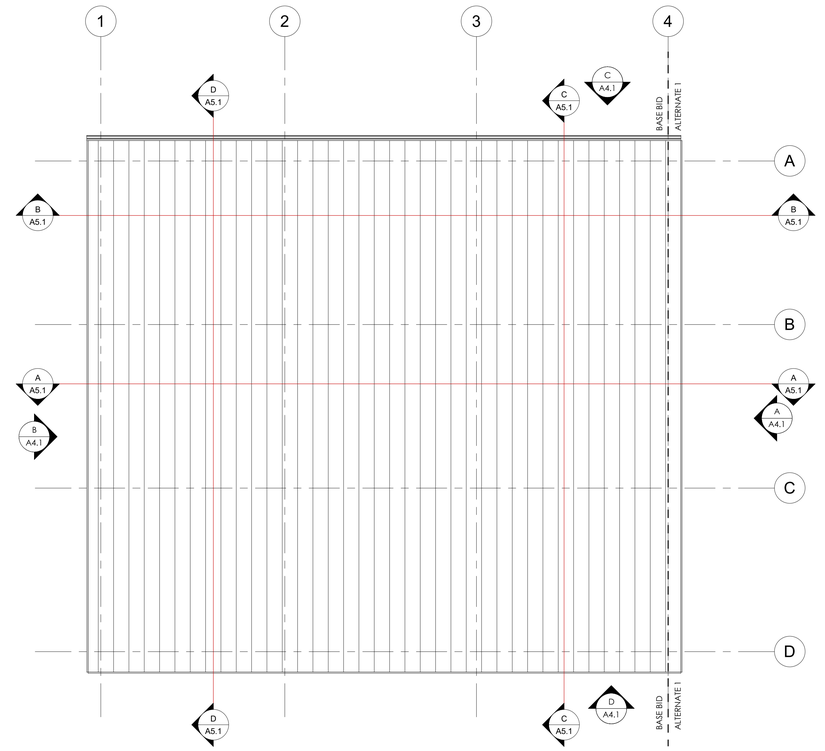


ROOF TYPE A

SYSTEM - PEMB ROOFING SYSTEM WITH INSULATION. REFER TO ROOF PLAN FOR ROOF SLOPES AND EDGE CONDITIONS. REFER TO SPECIFICATION SECTION (133419).

ROOF TYPE
A

ROOF TYPE A
1 1/2" = 1'-0"
1 A3.1



FIELD HOUSE ROOF PLAN
1/8" = 1'-0"
A A3.1

MATERIAL REFERENCE

075400.A	Thermoplastic Membrane Roofing System
075400.F	Drip Edge
133419.A	Metal Building - Structural Framing
133419.B	Metal Building - Roof Panel
133419.E	Metal Building - Insulation

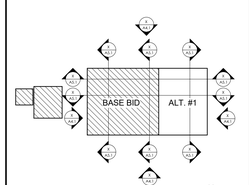
ROOF NOTES

#	
1	GUTTER. SEE DETAIL x/Ax.x. (074113) (076200) (077123)
2	DOWNSPOUT. SEE DETAIL x/Ax.x. (074113) (076200) (077123)
3	SPLASH PAD. SEE DETAIL x/Ax.x.
4	ROOFTOP MECHANICAL EQUIPMENT CURB. SEE DETAIL x/Ax.x.
5	CRICKET/SADDLE SLOPED TO 1/4" PER 1'-0" FOR POSITIVE DRAINAGE.
6	FASCIA. SEE DETAIL x/Ax.x.
7	COPING. SEE DETAIL x/Ax.x.
8	VENTED RIDGE. SEE DETAIL x/Ax.x.
9	VALLEY FLASHING. SEE DETAIL x/Ax.x.
10	ICE AND WATER SHIELD. (073113) (074113)
11	DRIP EDGE. SEE DETAIL x/Ax.x.
12	REGLET AND COUNTERFLASHING. SEE DETAIL x/Ax.x.
13	ACCESS HUB. REFER TO MEP.
15	SCUPPER AND COLLECTOR BOX. SEE DETAIL x/Ax.x. (076200) (077100) (077123)
16	EXPANSION JOINT. SEE DETAIL x/Ax.x.
17	SNOWGUARDS. (074113)
18	ALUMINUM ROOF-MOUNTED GUARDRAIL. SEE DETAIL x/Ax.x.
23	PREMANUFACTURED COLUMN SUPPORTED CANOPY. SEE DETAIL x/Ax.x.
24	PIPE SUPPORTS. SEE DETAIL x/Ax.x.
29	RAIN COLLECTION SYSTEM. SEE DETAIL x/Ax.x.

ROOF LEGEND

VTR	VENT THROUGH ROOF. SEE DETAIL A3.2. COORDINATE WITH MECHANICAL DWGS.	○
RTU	ROOF TOP UNIT. SEE MECHANICAL, ELECTRICAL, & FOOD SERVICE DRAWINGS.	▭

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

ROOF PLAN
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

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SCHEMATIC DESIGN

A3.1

ROOF PLAN

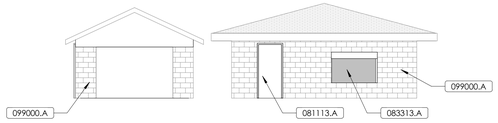
DATE ISSUED:
12/12/2018

REVISIONS

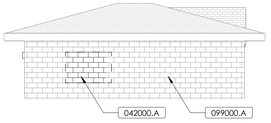
#	DATE	DESCRIPTION

MATERIAL REFERENCE

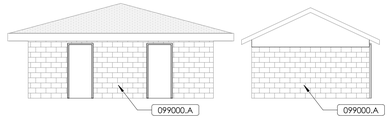
042000.A	Concrete Masonry Unit
042000.B	Face Brick
044200.B	Cut Stone
081113.A	Steel Doors & Frames
083313.A	Coiling Counter Door
083323.A	Overhead Coiling Door
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
084500.A	Translucent Wall System
099000.A	Paint
133419.B	Metal Building - Roof Panel
133419.C	Metal Building - Wall Panel
133419.F	Metal Building - Gutter and Downspout
133419.G	Metal Building - Flashing and Trim



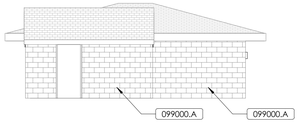
CONCESSION ELEVATION
1/8" = 1'-0"
H
A4.1



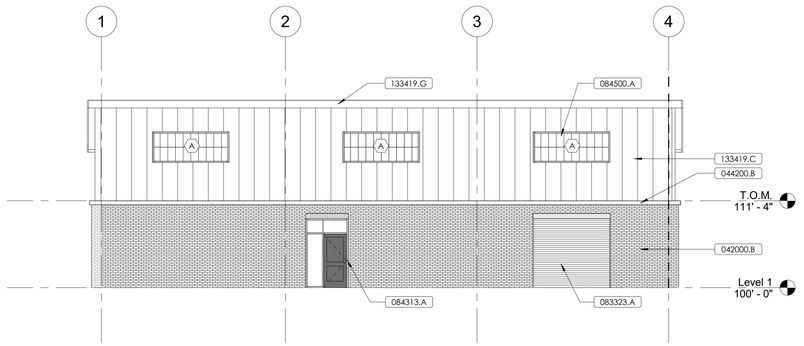
CONCESSION ELEVATION
1/8" = 1'-0"
F
A4.1



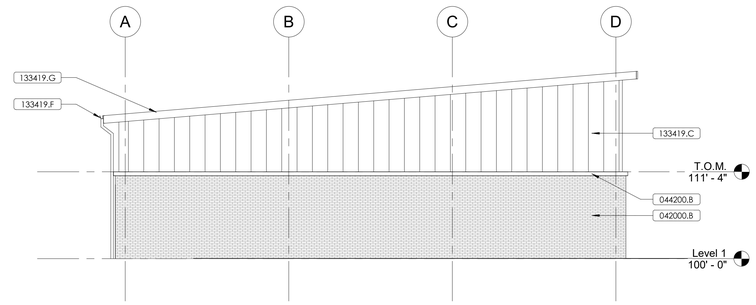
2.0 CONCESSION ELEVATION NORTH
1/8" = 1'-0"
G
A4.1



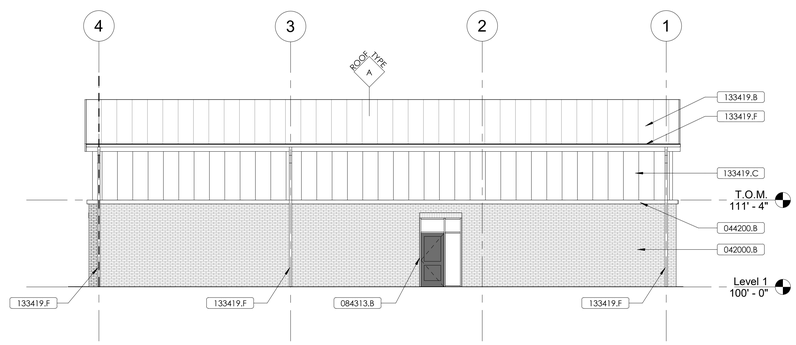
CONCESSION ELEVATION
1/8" = 1'-0"
E
A4.1



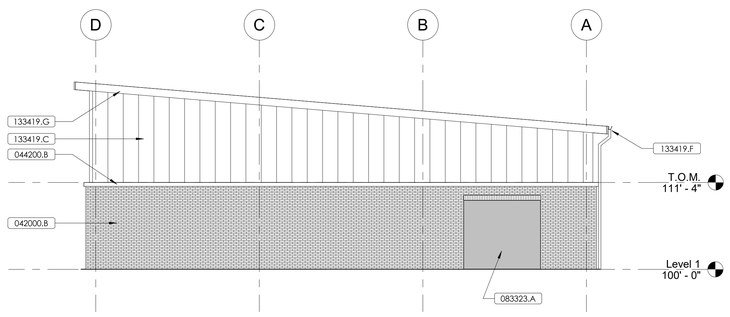
FIELD HOUSE ELEVATION
1/8" = 1'-0"
D
A4.1



FIELD HOUSE ELEVATION
1/8" = 1'-0"
B
A4.1

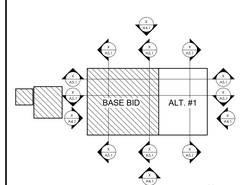


FIELD HOUSE ELEVATION
1/8" = 1'-0"
C
A4.1



FIELD HOUSE ELEVATION
1/8" = 1'-0"
A
A4.1

KEY PLAN



SCALE: NTS

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5046

NOT FOR CONSTRUCTION

BUILDING ELEVATIONS
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P. Engineer:
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Rev'd By:	GH, KL

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SCHEMATIC DESIGN

A4.1

BUILDING ELEVATIONS

DATE ISSUED:
12/12/2018

REVISIONS

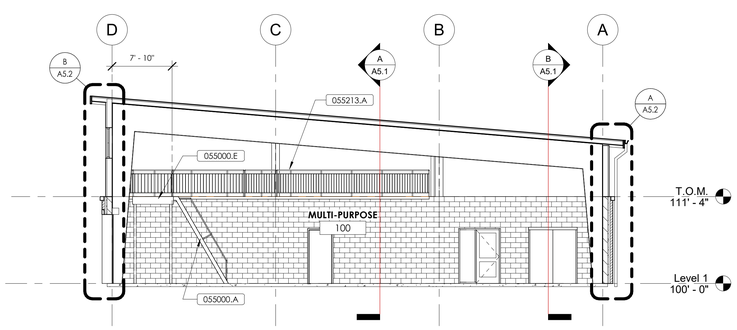
#	DATE	DESCRIPTION

MATERIAL REFERENCE

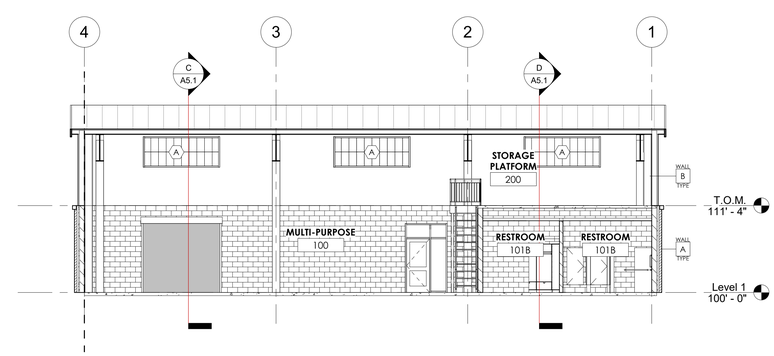
055000.A	Ship's Ladder
055000.E	Steel Framing and Support
055213.A	Steel Component Railing

BUILDING SECTION
1/8" = 1'-0"
D A5.1

BUILDING SECTION
1/8" = 1'-0"
B A5.1

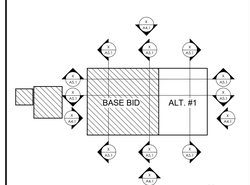


BUILDING SECTION
1/8" = 1'-0"
C A5.1



LONG SECTION 2
1/8" = 1'-0"
A A5.1

KEY PLAN



SCALE: NTS

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BUILDING SECTIONS & SECTIONS
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

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SCHEMATIC DESIGN

A5.1

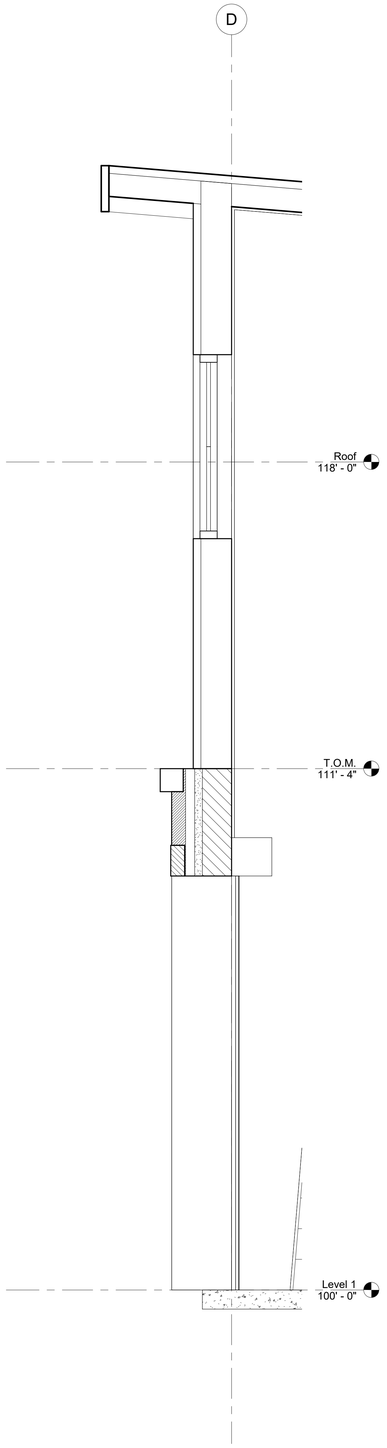
BUILDING SECTIONS

DATE ISSUED:
12/12/2018

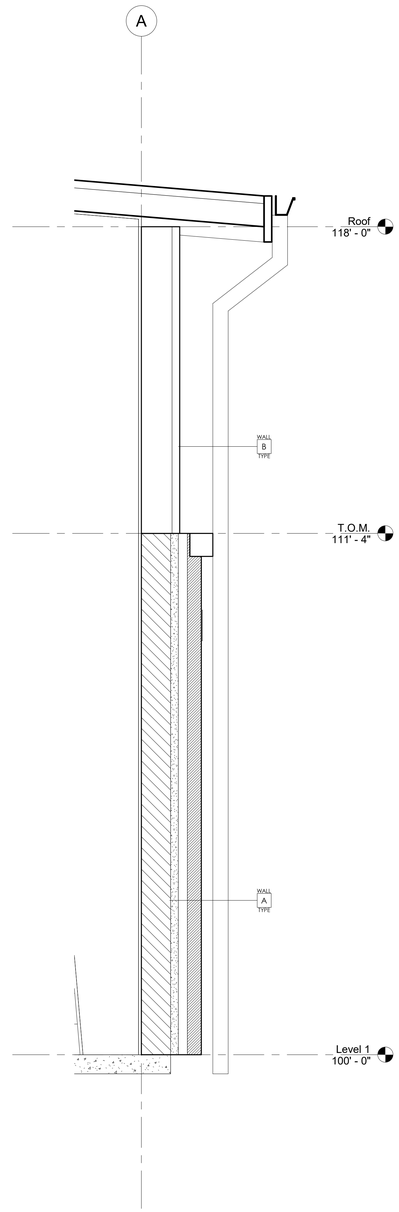
REVISIONS

#	DATE	DESCRIPTION

MATERIAL REFERENCE



SOUTH WALL SECTION
3/4" = 1'-0"
B
A5.2



NORTH WALL SECTION
3/4" = 1'-0"
A
A5.2

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WALL SECTIONS

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
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Elizabethtown, Kentucky

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Rev'd By:	GH, KL

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SCHEMATIC DESIGN

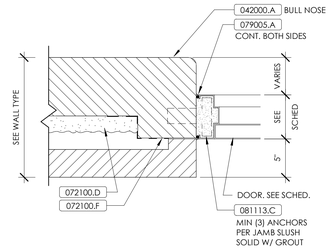
A5.2

WALL SECTIONS

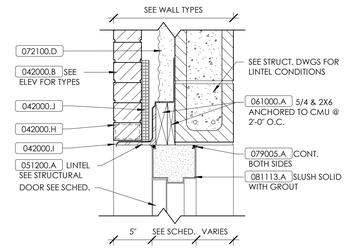
DATE ISSUED:
12/12/2018

REVISIONS

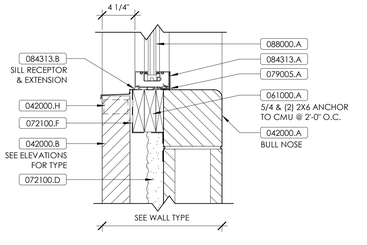
#	DATE	DESCRIPTION



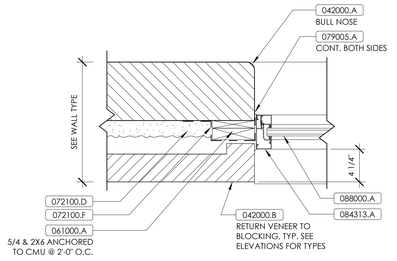
H.M. EXT JAMB — 7 / A6.1
1 1/2" = 1'-0"



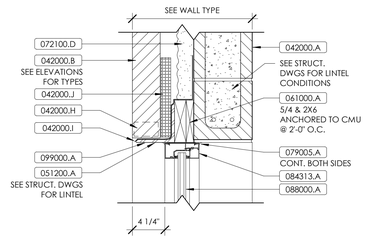
H.M. EXT. HEAD — 6 / A6.1
1 1/2" = 1'-0"



ALUM S.F. EXT SILL 2 — 4 / A6.1
1 1/2" = 1'-0"



ALUM S.F. EXT JAMB — 2 / A6.1
1 1/2" = 1'-0"



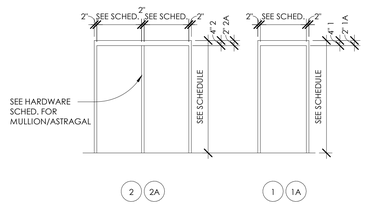
ALUM S.F. EXT. HEAD — 5 / A6.1
1 1/2" = 1'-0"

MATERIAL REFERENCE

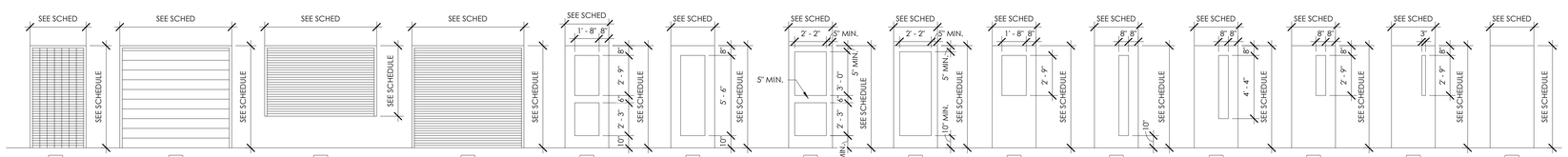
042000.A	Concrete Masonry Unit
042000.B	Face Brick
042000.H	Vents and Weeps
042000.I	Through Wall Flashing
042000.J	Mortar Deflection Material
051200.A	Structural Steel Member
061000.A	Wood Blocking
072100.D	Sprayed-In-Place Thermal Insulation
072100.F	Transition Membrane
079005.A	Joint Sealant
081113.A	Steel Doors & Frames
081113.C	Steel Frame
084313.A	Aluminum Storefront Window
084313.B	Aluminum Storefront Framing
088000.A	Glazing
099000.A	Paint

SCHEDULE OF DOORS AND FRAMES

DOOR NUMBER	PAIR	DOOR W	DOOR H	DOOR THICK	DOOR MAT	DOOR TYPE	DOOR GLASS	FRAME MAT	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FIRE RATING	SET NO.	COMMENTS
100-1		3' - 0"	7' - 0"	1 3/4"	AL	AL1		AL						
100-2		3' - 0"	7' - 0"	1 3/4"	AL	AL1		AL						
100-3		10' - 0"	9' - 0"	2"	AL	OH		-	-					
100-4		10' - 0"	9' - 0"	2"	AL	OH		-	-					
101		3' - 0"	7' - 0"	1 3/4"	HM	F		HM	1					
101A		3' - 0"	7' - 0"	1 3/4"	HM	F		HM	1					
102		3' - 0"	7' - 0"	1 3/4"	AL	AL1								
102A		3' - 0"	7' - 0"	1 3/4"	HM	F		HM	1					
103	X	6' - 0"	7' - 0"	1 3/4"	HM	F		HM						
105		3' - 0"	7' - 0"	1 3/4"	HM	F		HM						
106		3' - 0"	7' - 0"	1 3/4"	HM	F		HM	1					
108-1		3' - 0"	7' - 0"	1 3/4"	HM	F		HM	1					
108-2		6' - 0"	4' - 0"	1 3/4"		OHC		AL						



HOLLOW METAL FRAME TYPES — B / A6.1
N.T.S.



DOOR TYPES — A / A6.1
N.T.S.

DOOR SCHEDULE ABBREVIATION LEGEND:

AL	=	ALUMINUM
AW	=	ALUMINUM WINDOW
ARG	=	ASSAULT RESISTANT GLAZING
BN	=	BULLNOSE
BR	=	BULLET RESISTANT GLAZING
CW	=	CURTAINWALL
F	=	FIRE RATED GLAZING
HM	=	HOLLOW METAL
I	=	INSULATED
IFA	=	INTEGRATED FRAME ASSEMBLY
IP	=	INFILL PANEL
L	=	LAMINATED
O	=	OBSCURE GLAZING
S	=	SMOKE
SF	=	STOREFRONT
SPG.	=	SPANDREL GLAZING
T.	=	TEMPERED
T.I.	=	TEMPERED INSULATED
W	=	WIRE GLASS
WD	=	WOOD

*SEE DRAWING A0.1 FOR MORE ABBREVIATIONS.

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DOORS AND FRAME SCHEDULE

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

M.E.&P Engineer:
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BG#

Project No: 1843
Drawn By: TS, NS
Rev'd By: GH, KL

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SCHEMATIC DESIGN

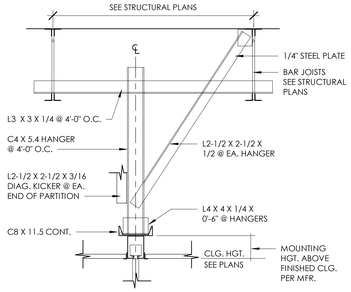
A6.1

DOORS AND FRAME SCHEDULE

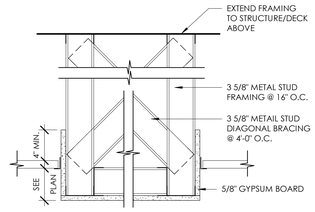
DATE ISSUED:
12/12/2018

REVISIONS

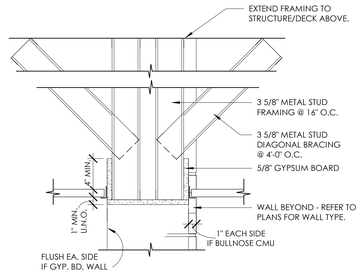
#	DATE	DESCRIPTION



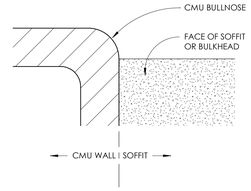
TYPICAL PARTITION TRACK DETAIL
3/4" = 1'-0"
E A7.1



TYPICAL SOFFIT DETAIL
1 1/2" = 1'-0"
D A7.1



TYPICAL BULKHEAD DETAIL
1 1/2" = 1'-0"
C A7.1



PLAN VIEW

TYPICAL SOFFIT DETAIL
N.T.S.
B A7.1

MATERIAL REFERENCE

GENERAL RCP NOTES

1. LIGHT FIXTURES AND HVAC ITEMS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS, SPRINKLER HEADS AND LIGHTING FIXTURES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS.
2. SOFFITS AND BULKHEADS WILL RECEIVE ACCENT PAINT COLOR(S) TBD. HORIZONTAL AND VERTICAL SURFACES OF SOFFITS AND BULKHEADS WILL BE PAINTED AN ACCENT COLOR.
3. ALL GYPSUM BOARD CEILINGS, SOFFITS, METAL DECKING, STRUCTURAL ELEMENTS, CONDUIT, AND ETC., REMAINING EXPOSED AFTER CONSTRUCTION IS COMPLETE WILL RECEIVE A FINISH SYSTEM U.N.O. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.
4. REFER TO THE A1 DRAWINGS FOR REQUIRED FIRE RATINGS OF WALLS AND CEILINGS.
5. DIMENSIONS OF SOFFITS ARE TO THE FACE OF FINISHED GYPSUM BOARD.
6. ELEVATIONS INDICATED ARE TO THE BOTTOM OF FINISH MATERIAL FROM ABOVE FINISH FLOOR.
7. GYPSUM BOARD IS TO BE EXTENDED FOUR INCHES MINIMUM ABOVE FINISHED CEILINGS AT SOFFITS AND BULKHEADS THAT ARE NOT REQUIRED TO MAINTAIN A FIRE RATING OR ACOUSTIC SEPARATION.
8. RECESS FACE OF GYPSUM BOARD INTERIOR SOFFITS AND BULKHEADS ONE INCH FROM FACE OF BULLNOSE CMU.

RCP NOTES

#	
1	GYPSUM BOARD SOFFIT/BULKHEAD. REFER TO TYPICAL DETAILS. (092116).
2	GYPSUM BOARD CEILING. PROVIDE FRAMING AND SUPPORTS AS REQUIRED (092116).
3	1-HR RATED GYPSUM BOARD CEILING PER UL DESIGN NO. P523
4	SPECIALTY LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5	UTILITY CHASE
6	OVERHEAD PROJECTOR MOUNT. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA. (111330)
7	RECESSED PROJECTION SCREEN. (115213)
8	MOVABLE PARTITION TRACK. REFER TO TYPICAL PARTITION TRACK DETAIL.
9	OPEN TO ABOVE; EXPOSED STRUCTURE. REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
10	SPRAYED-ON ACOUSTICAL INSULATION (072129). REFER TO ROOM FINISH SCHEDULE FOR MORE INFORMATION.
11	ROOF ACCESS LADDER AND HATCH. (055000)
12	EXISTING CEILING TO REMAIN.
13	PROVIDE GYPSUM BOARD BULKHEAD AT COOLER/FREEZER ENCLOSURE. COORDINATE HEIGHT AND LOCATION WITH COOLER/FREEZER SUPPLIER. (092116)
14	COOLER/FREEZER ENCLOSURE PANEL. COORDINATE HEIGHT AND LOCATION WITH COOLER/FREEZER SUPPLIER.
15	KITCHEN EQUIPMENT PENETRATIONS. REFER TO FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
16	LINEAR METAL CEILING SYSTEM (095423.A)
17	MANUAL ROLLERSHADE (122413).
18	MOTORIZED ROLLERSHADE (124930).

LEVEL ONE - RCP - BASE BID
1/8" = 1'-0"
A A7.1

RCP LEGEND

- ROOM NAME / ROOM NUMBER # / CLG. HGT. # — ROOM TAG W/ CEILING HEIGHT
- X'-X" — BOTTOM OF SOFFIT ELEVATION ABOVE FINISHED FLOOR
- ACOUSTICAL CEILING TILE & GRID. REFER TO A2 SHEETS FOR SIZES & TYPES
- GYPSUM BOARD BULKHEAD/SOFFIT/CEILING
- CROWN MOULDING
- HVAC DIFFUSER
- LIGHT FIXTURE IN ACOUSTICAL CEILING GRID
- LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- TUBULAR SKYLIGHT

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REFLECTED CEILING PLAN(S)
ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
Elizabethtown, Kentucky

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Rev'd By:	GH, KL

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SCHEMATIC DESIGN

A7.1

REFLECTED CEILING PLAN(S)

DATE ISSUED:
12/12/2018

REVISIONS

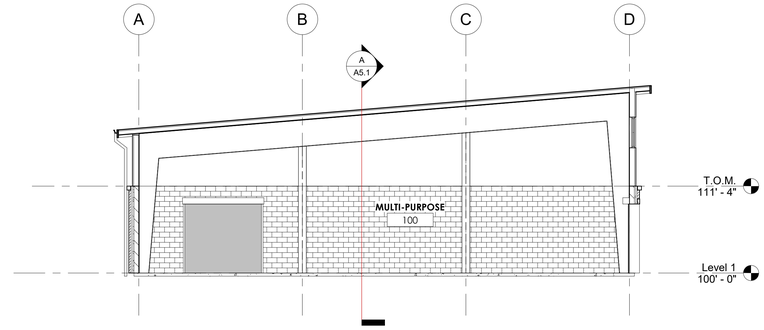
#	DATE	DESCRIPTION

SCHEDULE OF DOORS AND FRAMES - ALTERNATE

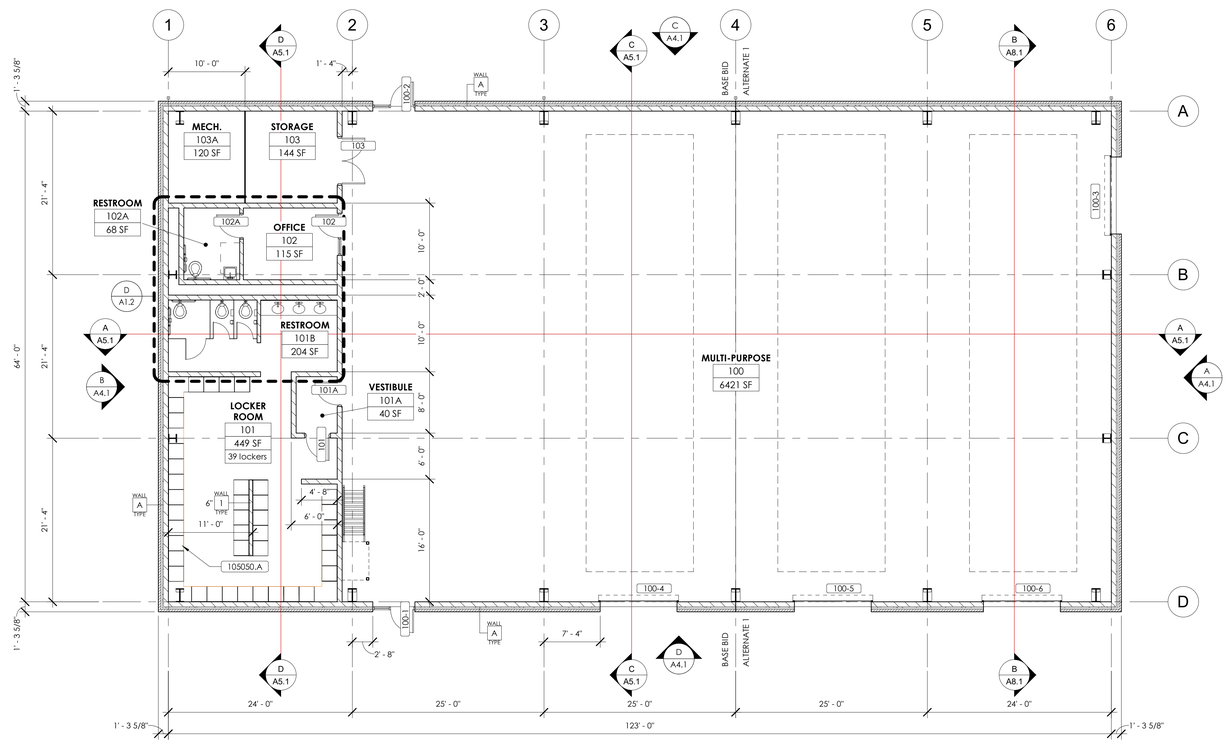
DOOR NUMBER	PAIR	DOOR W	DOOR H	DOOR THICK	DOOR MAT	DOOR TYPE	DOOR GLASS	FRAME MAT	FRAME TYPE	DETAIL HEAD	DETAIL JAMB	FIRE RATING	SET NO.	COMMENTS
100-5		10' - 0"	9' - 0"	2"	AL	OH		-	-					Alternate #1
100-6		10' - 0"	9' - 0"	2"	AL	OH		-	-					Alternate #1

MATERIAL REFERENCE

105050.A	Metal Lockers

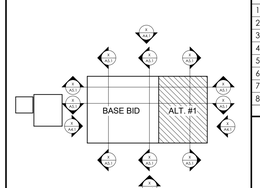


BUILDING SECTION
1/8" = 1'-0"
B
A8.1



FIELD HOUSE FLOOR PLAN - ALTERNATE
1/8" = 1'-0"
A
A8.1

KEY PLAN



SCALE: NTS

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ALTERNATES

ELIZABETHTOWN HIGH SCHOOL FIELD HOUSE
FOR:
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Elizabethtown, Kentucky

Project No:	1843
Drawn By:	TS, NS
Rev'd By:	GH, KL

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ALTERNATES

DATE ISSUED:
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PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CW	HW	VENT	WASTE	POWER
FD-1	FLOOR DRAIN - 6" DIA. ; ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION.	-	-	2"	4"	No
HB	HOSE BIBB : ZURN MODEL Z1350 OR EQUAL ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL INSTALLATION, WITH ALL BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, LOOSE KEY OPERATED CONTROL VALVE, VACUUM BREAKER AND 3/4" MALE HOSE CONNECTION. ADJUSTABLE STAINLESS STEEL BOX FURNISHED WITH HINGED COVER CYLINDER LOCK AND "WATER" STAMPED ON THE COVER. MOUNTED WITH HOSE CONNECTION AT 18" ABOVE FINISHED FLOOR ELEVATION OF AREA SERVED.	1/2"	-	-	-	No
P-1	WATER CLOSET - WALL MOUNTED- MANUAL FLUSH VALVE : VITREOUS CHINA, WALL MOUNTED ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE WITH MANUAL 1.6 GPF FLUSH VALVE. PROVIDE WALL CARRIER. MOUNT WITH BOWL AT 15" AFF.	1-1/2"	-	2"	4"	No
P-1A	WATER CLOSET - FLOOR MOUNTED - MANUAL FLUSH VALVE - ADA COMPLIANT : VITREOUS CHINA, 18" HIGH ELONGATED BOWL, SIPHON JET, 11/2" TOP SPUD INLET, CHINA BOLT CAPS AND WHITE OPEN FRONT PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. PROVIDE MANUAL 1.6 GPF FLUSH VALVE WITH HANDLE AT A MAXIMUM OF 31" AFF.	1-1/2"	-	2"	4"	No
P-2	LAVATORY - WALL HUNG W/ SINGLE LEVER FAUCET - ADA COMPLIANT : VITREOUS CHINA, 20"X18" WALL HUNG LAVATORY WITH 4" FAUCET CENTERS, CONCEALED ARMS AND 4" HIGH BACKSPLASH. PROVIDE WITH A 0.5 GPM SINGLE LEVER FAUCET, CHROME PLATED 3/8" SUPPLIES WITH STOPS, GRID DRAIN, A KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. MOUNT LAVATORY AT A HEIGHT LEAVING A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE APRON AND THE RIM AT A MAXIMUM OF 34" AFF. PROVIDE ON THE EXPOSED WASTE PIPE AND WATER SUPPLY LINES A TRAP-WRAP INSULATION KIT WITH A VINYL AND PLASTIC COVERING.	1/2"	1/2"	2"	2"	No
P-3	LAVATORY - COUNTER TOP - ADA COMPLIANT : VITREOUS CHINA, 19"X16" OVAL COUNTERTOP LAVATORY, SELF-RIMMING WITH FRONT OVERFLOW. PROVIDE WITH A .5 GPM SINGLE LEVER FAUCET, GRID DRAIN, 3/8" ANGLE SUPPLIES WITH STOPS, KENTUCKY CODE P-TRAP, TAILPIECE AND ESCUTCHEONS. INSTALL ON THE SUPPLY LINES AND P-TRAP AN INSULATION KIT WITH A VINYL PLASTIC COVERING.	1/2"	1/2"	2"	2"	No
P-4	URINAL - ADA COMPLIANT : VITREOUS CHINA SIPHON JET URINAL WITH 3/4" TOP SPUD INLET, 2" I.P.S. OUTLET AND 1.0 GPF MANUAL FLUSH VALVE. MOUNT WITH LIP OF URINAL AT 16" ABOVE FINISHED FLOOR. CONTROLS SHALL BE A MAXIMUM OF 39" ABOVE FINISHED FLOOR. PROVIDE FLOOR MOUNTED WALL CARRIER.	3/4"	-	2"	2"	Yes

SCHEDULE - ELECTRIC WATER HEATER

MARK	MANUFACTURER	MODEL #	SERVICE	STORAGE (GAL)	RECOVERY @ 100ºF RISE (GPH)	KW	VOLTAGE	PHASE	REMARKS
WH-01									

SCHEDULE - DOMESTIC HOT WATER RECIRCULATION PUMP

MARK	MANUFACTURER	MODEL	SERVICE	GPM	PRESS DROP (FT HEAD)	MOTOR HP	VOLTAGE	PHASE	REMARKS

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME, AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
M. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
N. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
O. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
P. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Q. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.)
R. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
S. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
T. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
U. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
V. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
W. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
X. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
Y. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
Z. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.
AA. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

HAZARDOUS MATERIAL NOTE:

A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

SYMBOLS & ABBREVIATIONS

A, AIR	MEDICAL AIR		POINT OF CONNECTION
AFF	ABOVE FINISHED FLOOR		LIMIT OF DEMOLITION
AFR	ABOVE FINISHED ROOF		PIPE ELBOW TURNING UP/TURNING DOWN
C.I.	CAST IRON		PIPE TEE TURNING UP/TURNING DOWN
CO2	CARBON DIOXIDE	A	MEDICAL AIR
CW	DOMESTIC COLD WATER	CA	COMPRESSED AIR
DN	DOWN	FM	FORCED MAIN
EV	EVACUATION (WASTE ANESTHETIC GAS DISPOSAL)	FP	FIRE PROTECTION LINE
FHV	FIRE HOSE VALVE WITH CABINET	G	GAS LINE
FPWH	FREEZE PROOF WALL HYDRANT	GW	SANITARY WASTE PIPING TO GREASE TRAP
HB	HOSE BIBB	O	OXYGEN PIPING
HW	DOMESTIC HOT WATER	ORL	OVERFLOW ROOF LEADER PIPING
IAW	IN ACCORDANCE WITH	RL	ROOF LEADER PIPING
ID	INSIDE DIMENSION	SAN	SANITARY WASTE PIPING
IE	INVERT ELEVATION	SS	STORM SEWER PIPING
LPA	LINE PRESSURE ALARM (MEDICAL GAS AREA ALARM)	V	VACUUM PIPING
MH	MANHOLE	VT	VENT PIPING
MSA	MULTI-SINGLE ALARM (MEDICAL GAS MASTER ALARM)	E(NAME)	EXISTING PIPING (THIN LINE)
NTS	NOT TO SCALE	–ABAN(NAME)–	ABANDONED EXISTING PIPING (THIN LINE)
NIC	NOT IN CONTRACT		DOMESTIC COLD WATER PIPING
NO	NORMALLY OPEN		DOMESTIC HOT WATER SUPPLY
NC	NORMALLY CLOSED		DOMESTIC RECIRCULATING HOT WATER
O, OX	OXYGEN	CO	CLEANOUT IN CEILING SPACE
OD	OUTSIDE DIMENSION	CO	FLOOR CLEANOUT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	ECO	EXTERIOR CLEANOUT
OFOI	OWNER FURNISHED, OWNER INSTALLED		BALANCING VALVE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		BALL VALVE
OR	OPEN RECEPTACLE		SAFETY RELIEF VALVE
ORL	OVERFLOW ROOF LEADER		SAFETY RELIEF VALVE
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)		OS&Y (GATE) VALVE
PSI	POUNDS PER SQUARE INCH		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
RHW	DOMESTIC RECIRCULATING HOT WATER		STRAINER
RL	ROOF LEADER		CHECK VALVE
SCW	SOFT DOMESTIC COLD WATER		DOUBLE CHECK VALVE ASSEMBLY
SR	SANITARY RISER		PIPING UNION
TB	THRUST BLOCK	PS	FLOW SWITCH
TE	TOP ELEVATION	PS	PRESSURE SWTICH
TP	TRAP PRIMER	PS	TAMPER SWITCH
TYP	TYPICAL		THERMOMETER
UON	UNLESS OTHERWISE NOTED	V	VACUUM BREAKER
V, VAC	VACUUM		LIMITED AREA SPRINKLER HEAD
VTR	VENT THRU ROOF	T	PETE'S PLUG
		FD-#	FLOOR DRAIN DESIGNATOR
		RD-#	ROOF DRAIN DESIGNATOR
		P-#	PLUMBING FIXTURE DESIGNATOR
		XXX X	EQUIPMENT TAG DESIGNATOR
		X	TAGGED NOTE DESIGNATOR
		X	REVISION DESIGNATOR
		X S	TEMPERATURE SENSOR
			HOSE BIB
		TMV	

rosstarrant architects
101 old ashbyville avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.3046

NOT FOR CONSTRUCTION

PLUMBING LEGEND

E'TOWN SOFTBALL FACILITY
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
620 N Mulberry St, Elizabethtown, KY 42701

M.E.&P. Engineer:
CMTA, Inc.
2429 Members Way
Lexington, KY 40504
p 859.253.0892

Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No:	1843 / XETS18
Drawn By:	MCW
Rev'd By:	MCW

SHEET RELEASE

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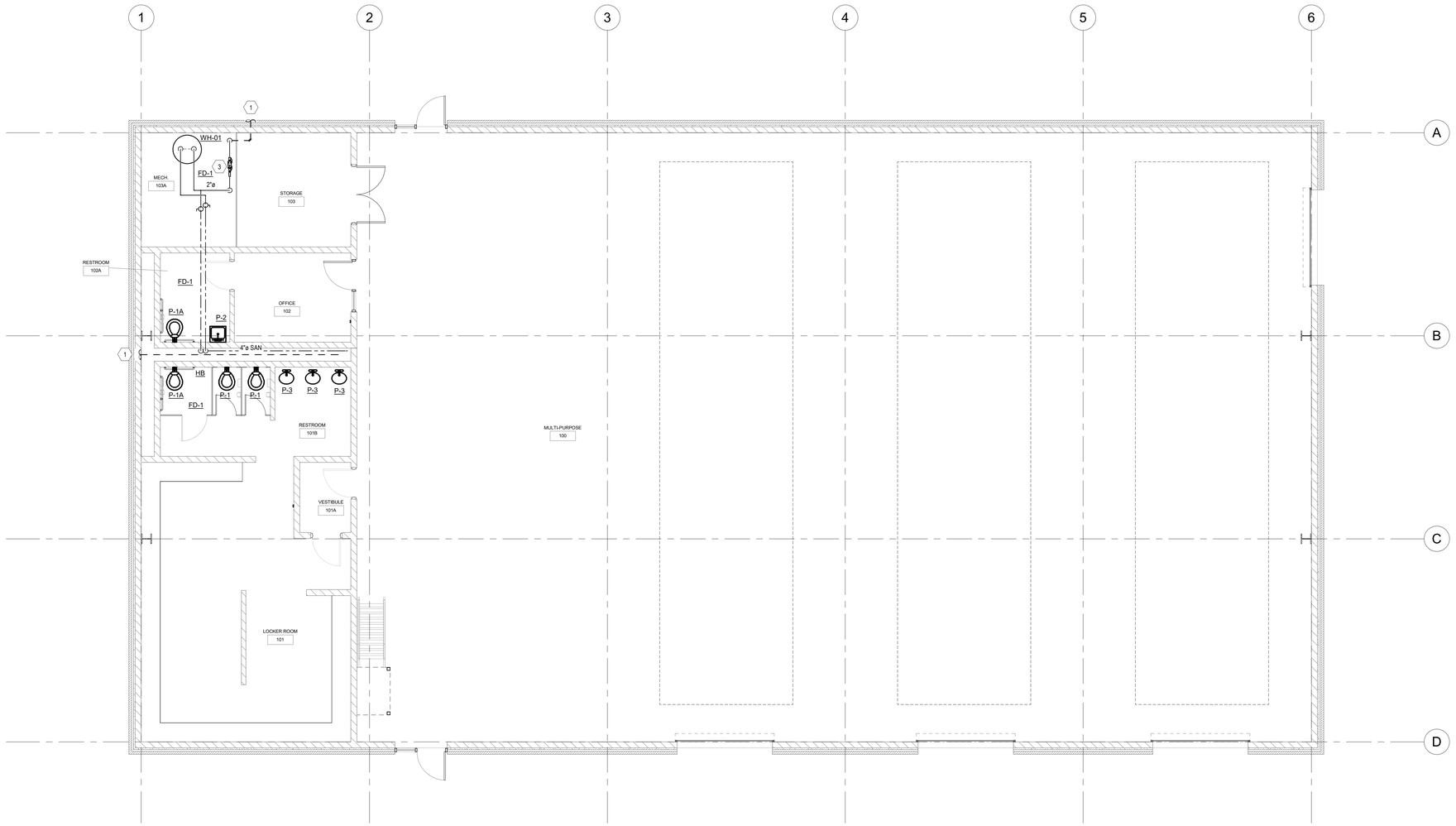
SCHEMATIC DESIGN

P1.0

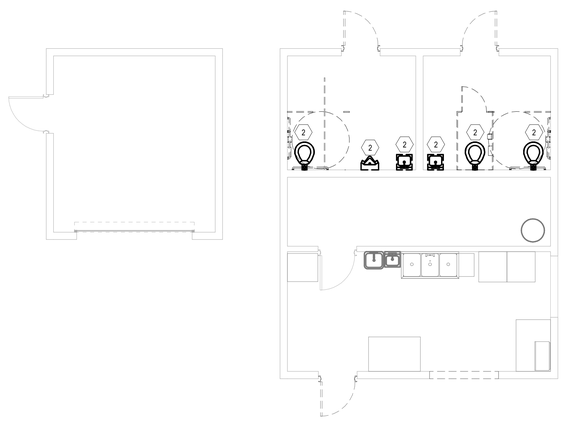
PLUMBING LEGEND

DATE ISSUED:
12/11/2018

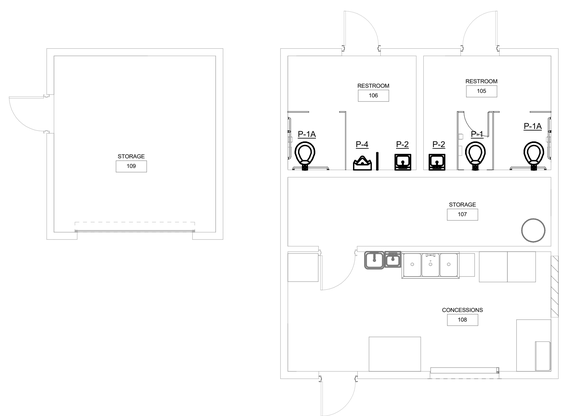
TAGGED NOTES	##
1	REFER TO SITE UTILITY PLAN FOR CONTINUATION.
2	DEMOLISH EXISTING FIXTURE AND REPLACE WITH NEW. REFER TO CONCESSIONS PLUMBING PLAN.
3	NEW DOUBLE CHECK BACKFLOW PREVENTER. REFER TO DETAIL.



SOFTBALL PLUMBING PLAN
3/16" = 1'-0"
1 P1.1



CONCESSIONS DEMOLITION PLAN
3/16" = 1'-0"
3 P1.1



CONCESSIONS PLUMBING PLAN
3/16" = 1'-0"
2 P1.1

rosstarrant architects
101 old lafayette avenue lexington, kentucky 40502 p 859.254.4018 f 859.231.5946

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PLUMBING PLAN

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SCHEMATIC DESIGN

P1.1

PLUMBING PLAN

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E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

PHASING NOTE:

A. THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL DEMOLITION NOTES:

A. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELED VERIFY EXACT REQUIREMENTS.
B. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
C. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
D. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
E. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
F. HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
G. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

MECHANICAL GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
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F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
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J. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
K. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
L. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
M. ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
N. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
O. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
P. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Q. COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
R. INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
S. SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
T. SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 6O1 OR EQUAL WATER BASED SEALANT.
U. ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
V. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
W. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
X. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
Y. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
Z. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
AA. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
BB. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
CC. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
DD. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
EE. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.
FF. THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.

SYMBOLS & ABBREVIATIONS

	SUPPLY DIFFUSER	VAV	VARIABLE AIR VOLUME BOX
	RETURN GRILLE	VFD	VARIABLE FREQUENCY DRIVE
	EXHAUST GRILLE	XXX / X	EQUIPMENT TAG DESIGNATOR
	LINEAR SLOT DIFFUSER		POINT OF CONNECTION
SA	SUPPLY AIR DUCT		LIMIT OF DEMOLITION
RA	RETURN AIR DUCT		PIPE ELBOW TURNING UP/TURNING DOWN
EA	EXHAUST AIR DUCT		PIPE TEE TURNING UP/TURNING DOWN
RA	OUTSIDE AIR DUCT	CHWS/R	CHILLED WATER SUPPLY/RETURN
OA	TRANSFER AIR DUCT	CD	CONDENSATE DRAIN
GEA	GENERATOR EXHAUST AIR DUCT	CBS/R	CHILLED BEAM SUPPLY/RETURN
COA	COMBUSTION AIR DUCT	CWS/R	CONDENSER WATER SUPPLY/RETURN
SA	SA AIR DUCT TURNING UP	DTS/R	DUAL TEMP. WATER SUPPLY/RETURN
SA	SA AIR DUCT TURNING DOWN	FLUE	BOILER/WATER HEATER FLUE
RA	RA AIR DUCT TURNING UP	GS/R	GEOTHERMAL WATER SUPPLY/RETURN
RA	RA AIR DUCT TURNING DOWN	HWS/R	HEATING WATER SUPPLY/RETURN
EA	EA AIR DUCT TURNING UP	HPS/R	HEAT PUMP WATER SUPPLY/RETURN
EA	EA AIR DUCT TURNING DOWN	LPS (#)	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
D(NAME)	DUCT TO BE DEMOLISHED	LPC	LOW PRESSURE STEAM CONDENSATE
E(NAME)	EXISTING DUCT	MPS (#)	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
	FLEXIBLE DUCT	MPC	MEDIUM PRESSURE STEAM CONDENSATE
FD	FIRE DAMPER	HPS (#)	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
SD	SMOKE DAMPER	HPC	HIGH PRESSURE STEAM CONDENSATE
FSD	COMBINATION FIRE/SMOKE DAMPER	CST	CLEAN STEAM PIPING
	MOTORIZED DAMPER	SVT	STEAM VENT PIPING
	VOLUME DAMPER	HRS/R	HEAT RECOVERY SUPPLY/RETURN PIPING
AFF	ABOVE FINISHED FLOOR	PD	STEAM CONDENSATE PUMPED DISCHARGE
AFR	ABOVE FINISHED ROOF	BFW	BOILER FEEDWATER
BAS	BUILDING AUTOMATION SYSTEM	D(NAME)	PIPING TO BE DEMOLISHED
CAV	CONSTANT AIR VOLUME BOX	E(NAME)	EXISTING PIPING
CD	CONDENSATE DRAIN	ABAN(NAME)	ABANDONED EXISTING PIPING
C.I.	CAST IRON		EXISTING DUCT OR PIPING TO BE REMOVED
CO	CARBON MONOXIDE SENSOR		TWO-WAY CONTROL VALVE
DD	DUCT SMOKE DETECTOR		THREE-WAY CONTROL VALVE
DN	DOWN		AUTOMATIC AIR VENT
FD	FIRE DAMPER		MANUAL AIR VENT
FOS/R	FUEL OIL SUPPLY/RETURN		BALANCING VALVE
FOT	FUEL OIL TANK		BALL VALVE
H	HUMIDITY SENSOR		BUTTERFLY VALVE
ID	INSIDE DIMENSION		TRIPLE DUTY VALVE
NC	NORMALLY CLOSED		STRAINER
NO	NORMALLY OPEN		MANUAL ISOLATION VALVE
NIC	NOT IN CONTRACT		GLOBE VALVE
NO	NORMALLY OPEN		OS&Y (GATE) VALVE
NTS	NOT TO SCALE		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
OD	OUTSIDE DIMENSION		AUTO-FLOW CONTROL VALVE
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		CHECK VALVE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED		DOUBLE CHECK VALVE ASSEMBLY
OFOI	OWNER FURNISHED, OWNER INSTALLED		FLEXIBLE PIPE CONNECTION
OR	OPEN RECEPTACLE		FLOW METER (VENTURI)
PRS	PRESSURE REDUCING STATION		PIPING UNION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)	PS	FLOW SWITCH
PSI	POUNDS PER SQUARE INCH	PS	PRESSURE SWTICH
S	SWITCH	TS	TAMPER SWITCH
SD	SMOKE DAMPER		THERMOMETER
T	THERMOSTAT		PETE'S PLUG
TB	THRUST BLOCK	X	TAGGED NOTE DESIGNATOR
TS	TEMPERATURE SENSOR	X	REVISION DESIGNATOR
TE	TOP ELEVATION	X	THERMOMETER
TYP	TYPICAL	X S	TEMPERATURE SENSOR
UNO	UNLESS NOTED OTHERWISE		

SCHEDULE - REGISTERS, GRILLES, DIFFUSERS

MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
E-01												
E-03												
S-01												
S-03												

SCHEDULE - CIRCULATION FAN

MARK	MANUFACTURER	MODEL #	TYPE	WEIGHT	ELECTRICAL DATA			REMARKS
					FLA	VOLTAGE	PHASE	
CF-01								

SCHEDULE - ELECTRIC UNIT HEATERS

MARK	MANUF.	MODEL #	TYPE	AIRFLOW (CFM)	ELECTRICAL			REMARKS
					KW	VOLTAGE	PHASE	
UH-01								

SCHEDULE - PACKAGED AIR HANDLER

MARK	MANUFACTURER	MODEL #	UNIT CONFIGURATION	SERVICE	LOCATION	PHYSICAL DATA WIDTH (IN.)	LENGTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	SUPPLY FAN TOTAL SA CFM	MIN. OA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	VOLT.	PH.	MCA	MOCP	VFD	OP. FREQ.	EXHAUST FAN TOTAL RA CFM	FAN MOTOR TYPE	# OF FANS	FAN RPM	E.S.P. (" WC)	T.S.P. (" WC)	RATED H.P. (PER FAN)	B.H.P. (PER FAN)	VOLT.	PH.	MCA	MOCP	VFD	OP. FREQ.	REMARKS
AHU-01																																					

MARK	NO. OF ROWS	FIN SPACING (FINS/IN)	REFRIGERANT	COOLING PERFORMANCE DX COIL FACE AND BYPASS	TOTAL (MBH)	SENSIBLE (MBH)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VELOCITY (FPM)	APD (IN. WG.)	EER	HOT GAS REHEAT COIL TOTAL CAPACITY (MBH)	LAT (°F)	UNIT LAT (°F)	ELECTRIC HEATING TOTAL HEATING CAPACITY (MBH)	ELECTRIC CONSUMPTION (KW)	EAT (°F)	LAT (°F)	SCR CONTROL	MARK	PREFILTER TYPE	FILTER EFFICIENCY	NO OF FILTERS	WIDTH (IN)	HEIGHT (IN)	FACE VELOCITY (FPM)	PRESSURE DROP (CLEAN) ("WC)	PRESSURE DROP (DIRTY) ("WC)
AHU-01																						AHU-01								

MARK	ENERGY RECOVERY WHEEL PERFORMANCE WINTER OPERATION AIR STREAM 1 EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	AIR STREAM 2 EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL CAPCITY (MBH)	TOTAL EFFECTIVENESS	SUMMER OPERATION AIR STREAM 1 EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	AIR STREAM 2 EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	TOTAL EFFECTIVENESS	APD AIR STREAM 1 (IN WG)	APD AIR STREAM 2 (IN WG)	ELECTRIC DATA HP	VOLTAGE	PHASE
AHU-01																										

MARK	UNIT INLET OCTAVE BAND FREQUENCY SOUND POWER LEVELS 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	UNIT OUTLET OCTAVE BAND FREQUENCY SOUND POWER LEVELS 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	UNIT RADIATED OCTAVE BAND FREQUENCY SOUND POWER LEVELS 63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ
AHU-01																								

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NOT FOR CONSTRUCTION

MECHANICAL LEGEND
E'TOWN SOFTBALL FACILITY
FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
620 N Mulberry St, Elizabethtown, KY 42701

M.E.&P Engineer:
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2429 Members Way
Lexington, KY 40504
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Structural Engineer:
Structural Design Group, Inc.
220 Great Circle Rd. Suite 106
Nashville, TN 37228
p 615.255.5537

BG#

Project No: 1843 / XETS18
Drawn By: MCW
Rev'd By: MCW

SHEET RELEASE

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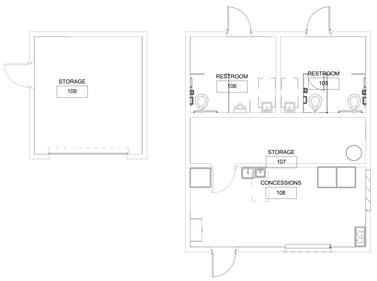
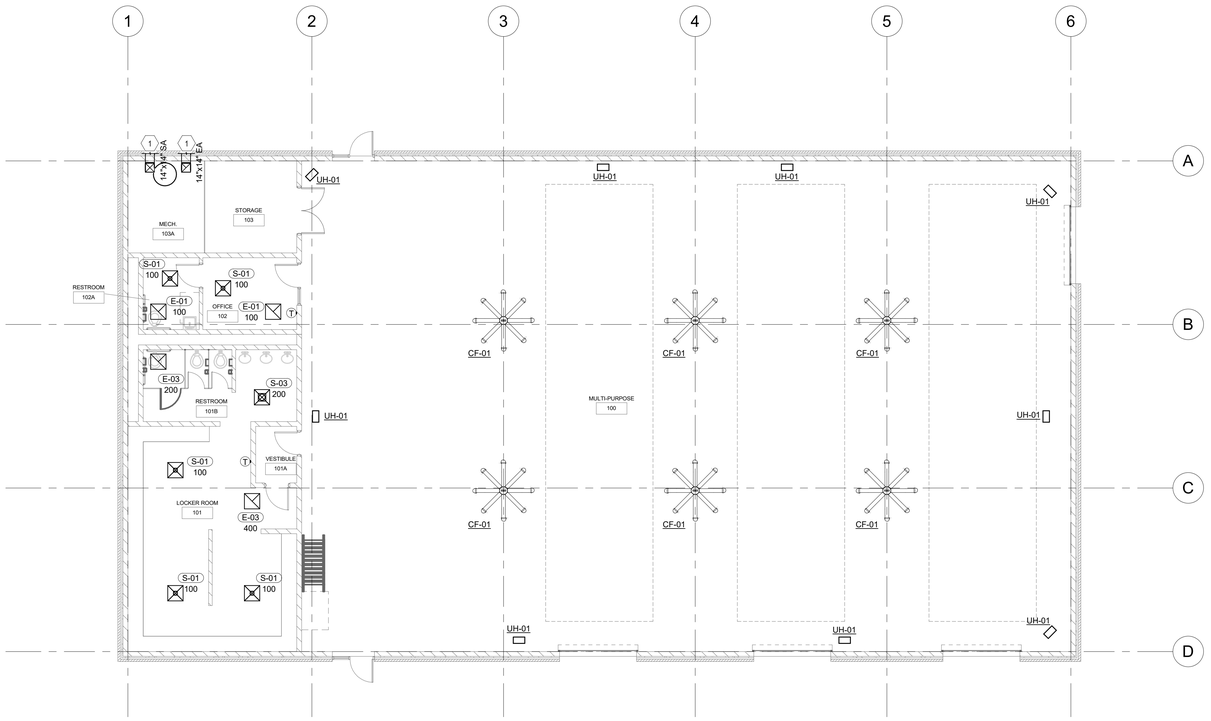
SCHEMATIC DESIGN

M1.0

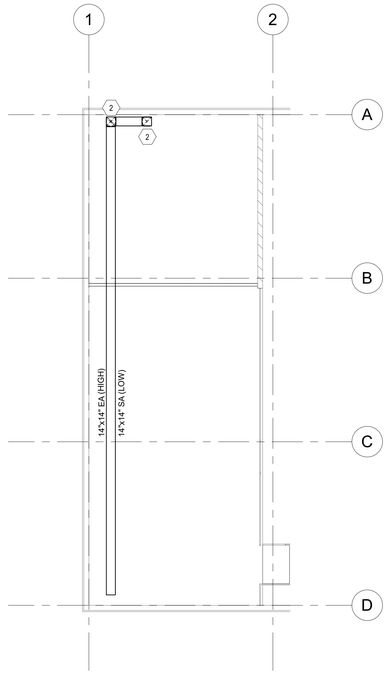
MECHANICAL LEGEND

DATE ISSUED:
12/11/2018





AIR DISTRIBUTION PLAN
1/8" = 1'-0"
1 M1.1



UPPER LEVEL AIR DISTRIBUTION PLAN
1/8" = 1'-0"
2 M1.1

TAGGED NOTES

1	REFER TO SITE UTILITY PLAN FOR CONTINUATION.
2	DUCT DOWN TO BELOW. REFER TO AIR DISTRIBUTION PLAN FOR CONTINUATION.

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SHEET RELEASE		
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SCHEMATIC DESIGN

M1.1

MECHANICAL PLAN

DATE ISSUED:
12/11/2018

ELECTRICAL LEGEND

LIGHTING CONTROL SWITCHES

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
LIGHT SWITCH: LOW VOLTAGE	46"	$
EXAM LIGHT SWITCH	46"	$X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	$N
SURGICAL LIGHT INTENSITY CONTROL	46"	$SL
LOW VOLTAGE DIMMER SWITCH	46"	$D
LINE VOLTAGE SWITCH	46"	$LV
LINE VOLTAGE THREE-WAY SWITCH	46"	$3
LINE VOLTAGE FOUR-WAY SWITCH	46"	$LV4
KEYED SWITCH	46"	$K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	$OS $VS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	$IL
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	$PL
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$M
MOMENTARY CONTACT SWITCH	46"	$MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	$HOA
TIMER SWITCH	46"	$T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	OS VS
PHOTO-CELL AS NOTED	AS NOTED	PC
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ER

POWER OUTLETS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT	1'-6"	S
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		
FILLED OUTER BARS INDICATES INTEGRAL INTEGRAL USB OUTLETS IN ADDITION TO POWER RECEPTACLES	1'-6"	
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS DIFFERENT)	46"	C/S
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
JUNCTION BOX, CEILING OR WALL		J
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
VOLTAGE/3PH RECEPTACLE, AS NOTED	1'-6"	
"DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES	ON CNTR.	DP
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		EWC

FIRE ALARM

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEYED, LOCKED PULL STATION : DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG	F F
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A A
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V V
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PROJECTED BEAM SMOKE DETECTOR; EMITTER (BE) AND RECEIVER (BR)		BE , BR
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABV CLG	CD
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	FAAM
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	46"	NAC
TRANSPONDER CABINET	46"	TRAN
GRAPHICS DISPLAY TERMINAL		GDT
FIRE ALARM CONTROL EXTENDER		EXT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK	4'-6"	FP
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC
PRIVATE MODE AUDIBLE NOTIFACTION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

LIGHTING

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE (SLASH INDICATES RECESSED)		
POLE MOUNTED AREA LIGHT		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
SURGICAL/EXAM LIGHT		SL XL
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		

MISCELLANEOUS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT.	46"	DB
DOORBELL AUDIO/VISUAL STATION, PROVIDE PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OWNER/ARCHITECT, NUTONE OR EQUAL	7'-6"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS IF NEEDED.		Y
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	66"	GEN-A
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS		T
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	

ABBREVIATIONS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		E, EM

SPECIAL OUTLETS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
FLOORBOX, POWER ONLY, AS SCHEDULED	FLOOR	
FLOORBOX. COMBINATION POWER AND LOW VOLTAGE. REFER TO FLOORBOX SCHEDULE	FLOOR	
FIRE RATED POKE THOUGH FLOOR BOX, COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. DEVICES AS SCHEDULED	FLOOR	
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE. REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP

TELEVISION

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
TELEVISION SPLITTERS/AMPLIFIERS/DISTRIBUTION	46"	TV-HE
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE. COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T

OVERHEAD PAGING

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
PAGING SPEAKER: CEILING	CLG	S
PAGING SPEAKER W/ VOLUME CONTROL	CLG	SV
PAGING SPEAKER: WALL	8'-0"	S
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE 5A606 SPEAKER. ATLAS 417-8WD	8'-0"	S R
WALL MOUNTED PAGING HORN	9'-0"	H
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER. QUAM VP1	SEE FLOOR PLANS	S WP
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER. QUAM VP6	SEE FLOOR PLANS	S EXT.
CALL INITIATION STATION	46"	C
WALL VOLUME CONTROL	46"	V
LCD WALL DISPLAY		LD
PAGING MICROPHONE	1'-6"	M
PAGING SYSTEM AMPLIFIER/TUNER CABINET	46"	PA

CLOCKS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
ANALOG CLOCK	84"	C
ELAPSED TIMER		ET
DIGITAL CLOCK: SINGLE FACE	84"	DC
DIGITAL CLOCK: DUAL FACE	84"	2DC
CLOCK SYSTEM HEAD END	84"	CLOCK

SECURITY PANIC ALARM

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
PANIC ALARM BUTTON	46"	PB
PANIC ALARM ANNUNCIATOR	46"	PA
AMBER STROBE	80"	AS
PANIC ALARM POWER SUPPLY CABINET	46"	SEC-P

SECURITY INTERCOM

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
AUDIO/VIDEO INTERCOM STATION: MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM. AIPHONE#AX-MV W/DESK STAND - ~~COLOR BY ARCHITECT~~	18"	IM
SAME AS "IM" EXCEPT WALL MOUNTED	46"	IM W
AUDIO/VIDEO INTERCOM STATION: REMOTE WITH FLUSH-MTD S.S. ENCLOSURE. AIPHONE #AX-DVF.	46"	IR

SECURITY ACCESS CONTROL

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
DOOR ALARM/POSITION SWITCH	DOOR FRAME	DA
MAGNETIC LOCK(S)	ABV DOOR	ML
DOOR POWER SUPPLY	ABV CLG	DS
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	DP
ELECTRIC STRIKE	AT LATCH	ES
AUTOMATIC DOOR CONNECTION (MAY ALSO HAVE ELECTRIC STRIKE/MAG-LOCK/ELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS)	CLG	AD
DOOR RELEASE PUSH-PLATE / INFRA-RED OPERATOR STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	PP
DOOR RELEASE KEYSWITCH STATION	6'-0"	KS
DOOR RELEASE KEYPAD STATION	46"	KP
DOOR RELEASE CARD READER STATION. PROVIDE ANY ADDITIONAL ROUGH-IN FOR "EMERGENCY RELEASE" OPERATOR STATIONS AS REQUIRED.	46"	CR
SAME AS "CR" EXCEPT MULLION MOUNT	46"	CR M
MOTION SENSOR DOOR CONTROL	CEIL.	MS
PUSH-TO-EXIT BUTTON	46"	PE
ACCESS CONTROL POWER SUPPLIES/CONTROL PANEL	46"	SEC-A

SECURITY CCTV VIDEO SURVEILLANCE

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	RR
CCTV CAMERA: CEILING MOUNT DOME	CLG	CC
CCTV CAMERA: WALL MOUNT DOME	WALL	CC
INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILLARY HEATER		WP
INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
CCTV POWER SUPPLIES/CONTROL PANEL	46"	SEC-C

SECURITY INTRUSION DETECTION

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
MOTION DETECTOR	CLG	MD
MOTION DETECTOR KEYPAD CONTROLLER	46"	MK
SECURITY SYSTEM HEAD END	46"	SEC-M

DATA / VOICE

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
DATA OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS	1'-6"	#D
VOICE OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS	1'-6"	#V
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	#D/#V
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH		#D #V #D/#V
RF TRACKER ANTENNA	CLG	
TELEMETRY ANTENNA	CLG	
OUTLET (VOICE ONLY) : PAYPHONE TYPE	AS REQ'D.	PAY
MAIN DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT. # 3/0 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, 3/0-PT GROUND BAR AND A 6'-0", #3 AWG PIGTAIL AT BACKBOARD. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		TEL
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (1 DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.		WAP

SECURITY

NOTE:

ALL INTRUSION SYSTEM DEVICES SHALL BE ROUTED IN SURFACE RACEWAY WHERE EXPOSED OR ON EXISTING WALL TO ABOVE CEILING. (U.O.N.) CONTRACTOR SHALL PROVIDE 2" BRIDLE RING PATH OR 3/4 " CONDUIT FOR ROUTING ALL CABLE CONCEALED TO EXPANSION MODULE OR MAIN CONTROL PANEL. FIELD VERIFY BEST ROUTING PATH. ALL EXACT DEVICE LOCATIONS SHALL BE ESTABLISHED PRIOR TO INSTALLATION AT "PRE-SECURITY INSTALLATION MEETING".

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
NEW CEILING MOUNTED INTRUSION DETECTOR. LOCATED AT LEAST 24" AWAY FROM ANY AIR DIFFUSER. (TYPE BOSCH DS9370)		9370 M
NEW WALL MOUNTED INTRUSION DETECTOR (TYPE SENTROL AP-633)		633 M
NEW CORNER MOUNTED INTRUSION DETECTOR TYPE INTERLOGIX 6550U.		6157 M
NEW WALL MOUNTED INTRUSION DETECTOR. USED IN UNHEATED AREAS. (TYPE SENTROL 6157CTX)		CTX M
NEW WALL MOUNTED INTRUSION DETECTOR. USED OUTDOORS. (TYPE PROTECH SDI-772L2)		EX M
MAIN CONTROL PANEL. SURFACE-MOUNTED WITH BOTTOM AT 60" AFF - (SEE SPECIFICATIONS)		MP
SECONDARY CONTROL PANEL. SURFACE-MOUNTED WITH BOTTOM AT 60" AFF - (SEE SPECIFICATIONS)		MP
KEYPAD STATION. SURFACE-MOUNTED BOTTOM AT 60" AFF - (SEE SPECIFICATIONS)		KP
EXPANSION MODULE PANEL. SURFACE MOUNTED WITH CENTERLINE AT 54" AFF - (SEE SPECIFICATIONS)		EP
FIRE ALARM. PROVIDE CONNECTION TO FIRE ALARM CONTROL PANEL AS REQUIRED BY OWNER.		FA
BOILER ALARM. FROM PANEL TO N.O. CONTACTS WITH E.O.L. RESISTOR AT FAULT RELAY IN THE I/O J-BOX LOCATED IN THE BOILER.		B
SPARE SECURITY SYSTEM CABLE. INSTALL J-BOX AT POINT INDICATED. COIL UP 30' AT J-BOX AND 10' AT PANEL TROUGH. LABEL EACH END AND IDENTIFY WITH WIRE MARKERS.		S
WALK-IN REFRIGERATION ALARM. CONNECT TO EQUIPMENT AND COIL UP 3' AT ASSIGNED SECURITY PANEL FOR FINAL CONNECTION BY OTHERS. LABEL CABLE FOR IDENTIFICATION.		WR
REFRIGERANT MONITOR. FROM PANEL TO N.O. CONTACTS WITH E.O.L. RESISTOR AT THE FAULT RELAY OF THE MONITORING EQUIPMENT.		RM
SUMP PUMP. FROM PANEL TO SUMP PUMP FLOAT SWITCH. (PROVIDE FLOAT SWITCH WITH 20 FT MECH. BULB AND CORD WEIGHT)		SP
BOILER MANAGEMENT ALARM. FROM SECURITY PANEL TO SEQUENCER. PANEL AS REQUIRED BY OWNER.		BM
EXISTING SECURITY DEVICE TO BE COMPLETELY REMOVED (BACK TO SOURCE).		D
MAKE UP WATER ALARM. FROM PANEL TO N.O. CONTACTS WITH E.O.L. RESISTOR AT FAULT RELAY OF THE MONITORING EQUIPMENT		MW
EMERGENCY GENERATOR (FROM SECURITY PANEL AND TERMINATED TO N.O. SETSET OF CONTACTS AT THE FAULT OR TROUBLE RELAY OF THE CONTROL PANEL, OR TRANSFER SWITCH CABINET.		EG
LOW PRESSURE CONTROL SWITCH FOR DX COOLING UNITS AND CHILLER'S REFRIGERANT PRESSURE MONITOR SWITCH.		LP
AMBER HIGH POWER WEATHERPROOF XENON STROBE LIGHT / 12VDC 140 mA, STI-9621 PROTECTIVE CAGE.		AS
INDOOR 105 dB STEADY AND WARBLE TONES / 12VDC 140mA MOUNTED ON CONCRETE OR BRICK WALL. (DO NOT MOUNT IN CEILING TILE)		PS
MORTISE KEYSWITCH / ALTERNATE (MAINTAINED SPDT/GREEN AND RED BICOLOR LED 12 OR 24 VOLT STAINLESS STEEL SINGLE GANG FACE PLATE.		BS
(2) OMRON LY2F 12VDC RELAYS, (2) OMRON PTF08A RELAY SOCKETS (SEE DETAIL FOR MOUNTING LOCATION)		RS
DDC INTERLOCK. HOLDS HEATING AND AIR OFF UNTIL SECURITY SYSTEM HAS BEEN DISARMED.		EI
ALL SECURITY DEVICES INDICATED WITH "WG" SHALL BE PROVIDED WITH WIREGUARD FOR PROTECTION.		WG

LOCAL SOUND

DESCRIPTION	MOUNTING HEIGHT (TO CENTER)	CE FIXTURE DRAWING SYMBOL
WALL MICRO-PHONE OUTLET : SINGLE	1'-4"	M
WALL MICRO-PHONE OUTLETS(# AS NOTED)	1'-4"	M 2 3 4
FLOOR MICRO-PHONE OUTLET : SINGLE	FLOOR	M
FLOOR MICRO-PHONE OUTLETS(# AS NOTED)	FLOOR	M2,M3,M4
AUDITORIUM SYSTEM SOUND SPEAKER	SEE SPECS	AS
CAFETERIA SYSTEM SOUND SPEAKER	SEE SPECS	S
AUDITORIUM SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	SS-A
CAFETERIA SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	SS-C
LECTURE HALL SOUND SYSTEM AMPLIFIER	5'-0" TO CENTER	SS-L
LECTURE HALL SOUND SYSTEM SPEAKER	5'-0" TO CENTER	LS
CLASSROOM SOUND SYSTEM SPEAKER	SEE SPECS	SS
BAND SOUND SYSTEM SPEAKER	SEE DWGS	BS

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NOT FOR CONSTRUCTION

ELECTRICAL LEGEND

ETOWN SOFTBALL FACILITY

FOR:
ELIZABETHTOWN INDEPENDENT SCHOOLS
620 N Mulberry St, Elizabethtown, KY 42701

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Structural Engineer:
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220 Great Circle Rd. Suite 106
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Project No: 1843 / XETS18
Drawn By: JNJ
Rev'd By: JNJ

SHEET RELEASE

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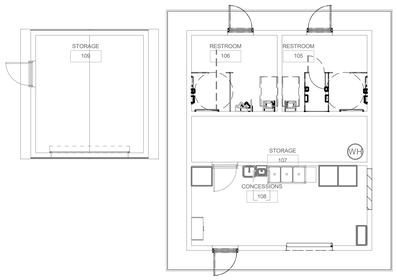
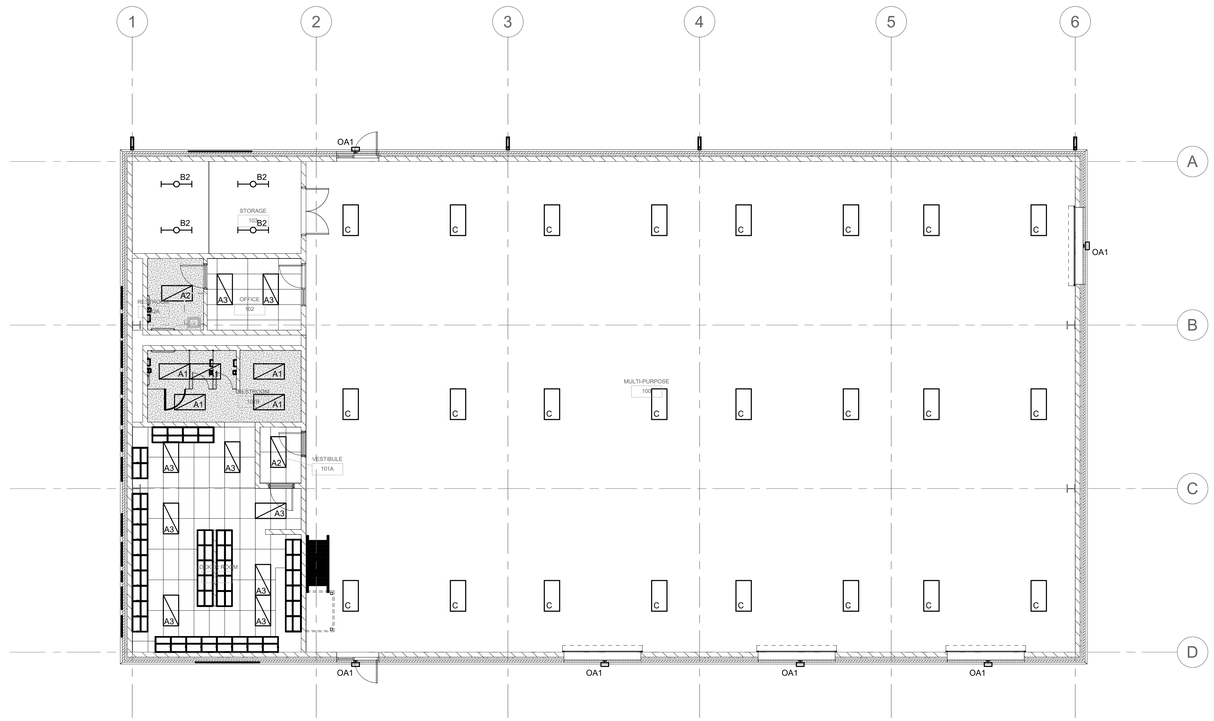
SCHEMATIC DESIGN

E1.0

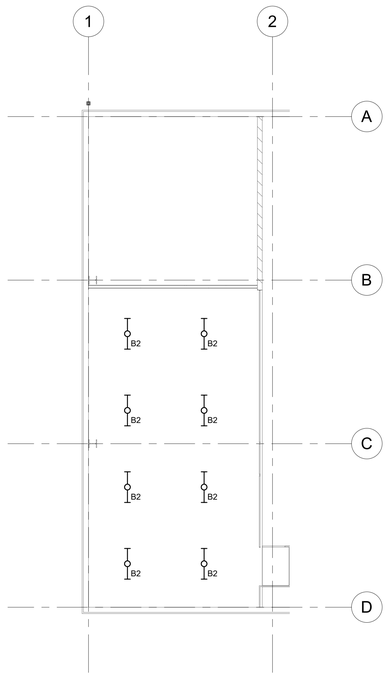
ELECTRICAL LEGEND

DATE ISSUED:
12/11/2018





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



2 UPPER LEVEL LIGHTING PLAN
1/8" = 1'-0"

TAGGED NOTES ##

ELECTRICAL LIGHTING NOTES

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. ALSO, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING. TO MAXIMIZE AVAILABLE LIGHT. SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
- LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
- ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
- RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

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ELECTRICAL LIGHTING PLANS
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SCHEMATIC DESIGN

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ELECTRICAL LIGHTING PLANS

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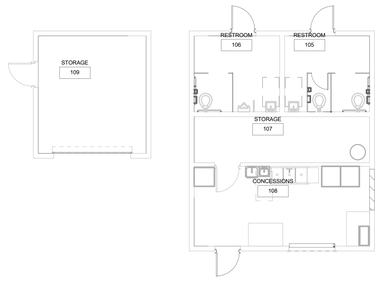
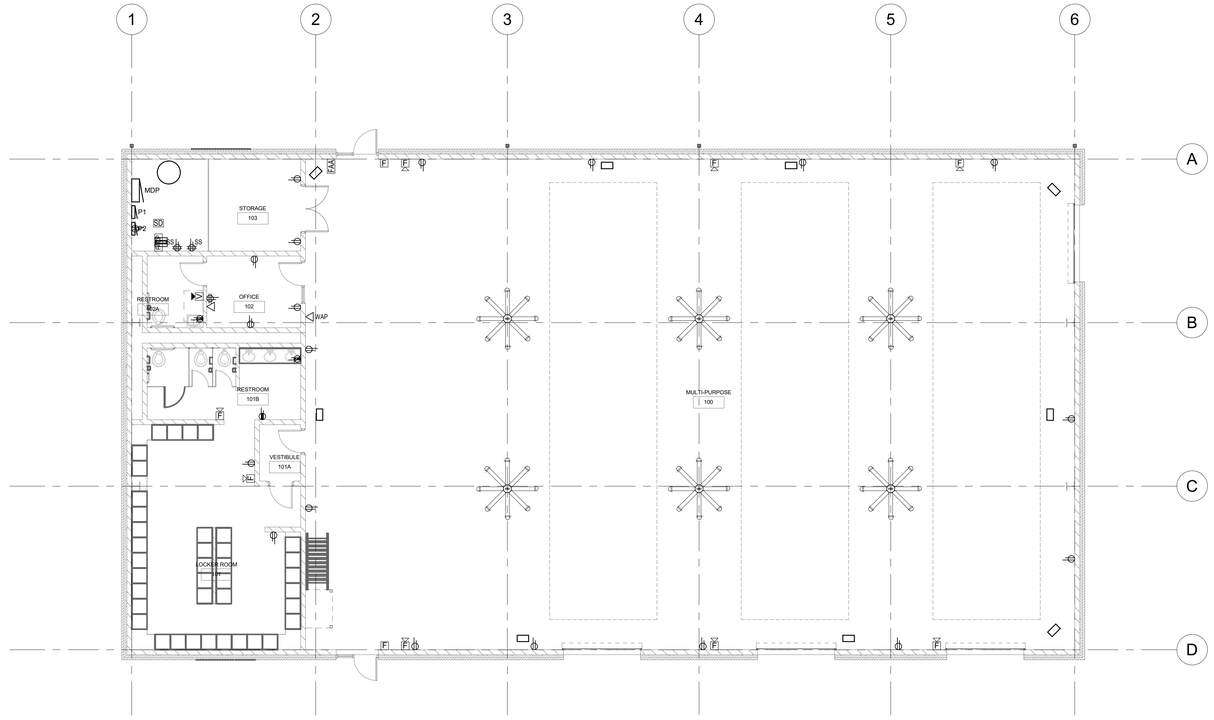
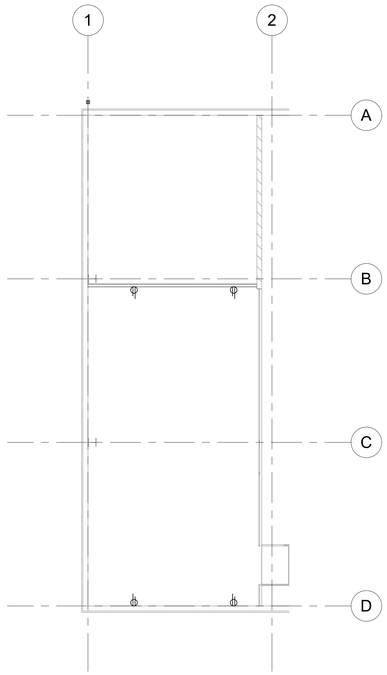




1 POWER AND SYSTEMS PLAN
1/8" = 1'-0"



2 UPPER LEVEL POWER AND SYSTEMS PLAN
1/8" = 1'-0"

TAGGED NOTES ##

ELECTRICAL POWER NOTES

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

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