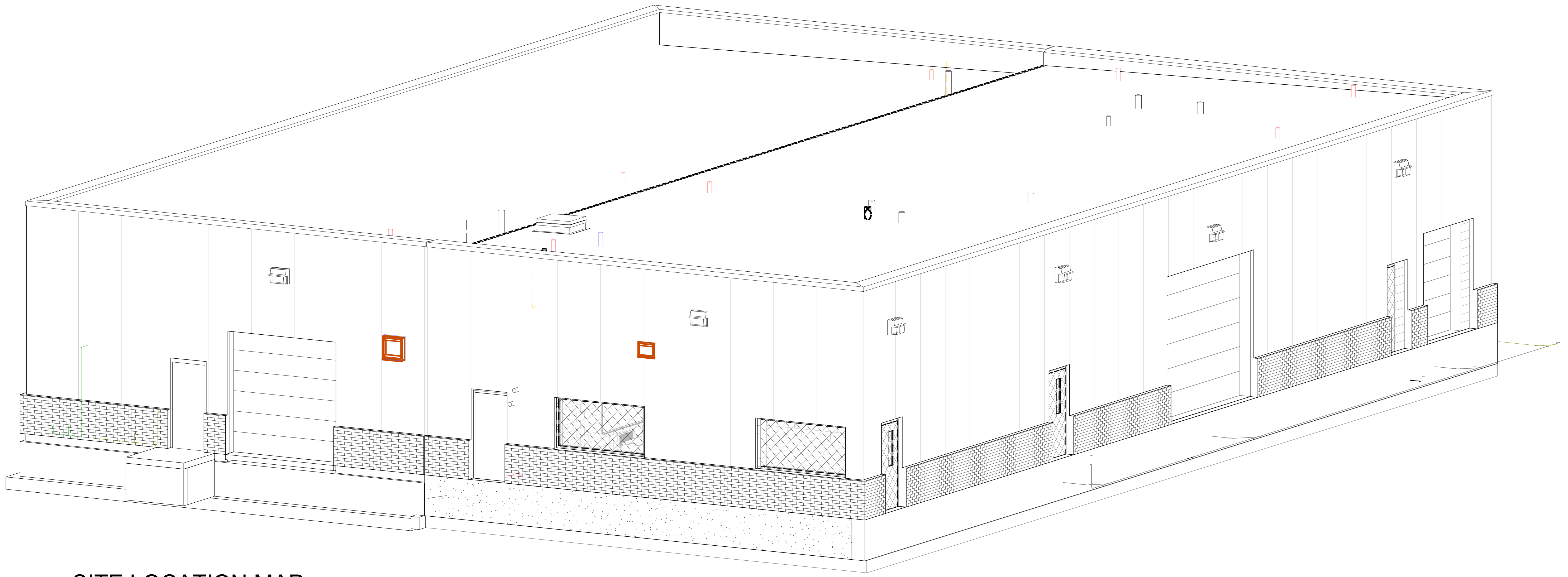
NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street

Eldridge, IA 52748



SCHEDULE OF DRAWINGS

SITE LOCATION MAP

BOARD OF EDUCATION

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ISSUED FOR BIDDING

DATE OF ISSUE

10.17.2023

ARCHITECT'S PROJECT NUMBER

223048.00

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

rtm engineering consultants

IMEG

BRUCE BUILDERS

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

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ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE ____________
DATE ____________

REVISIONS

NO.	DESCRIPTION	DATE
1		

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TITLE SHEET

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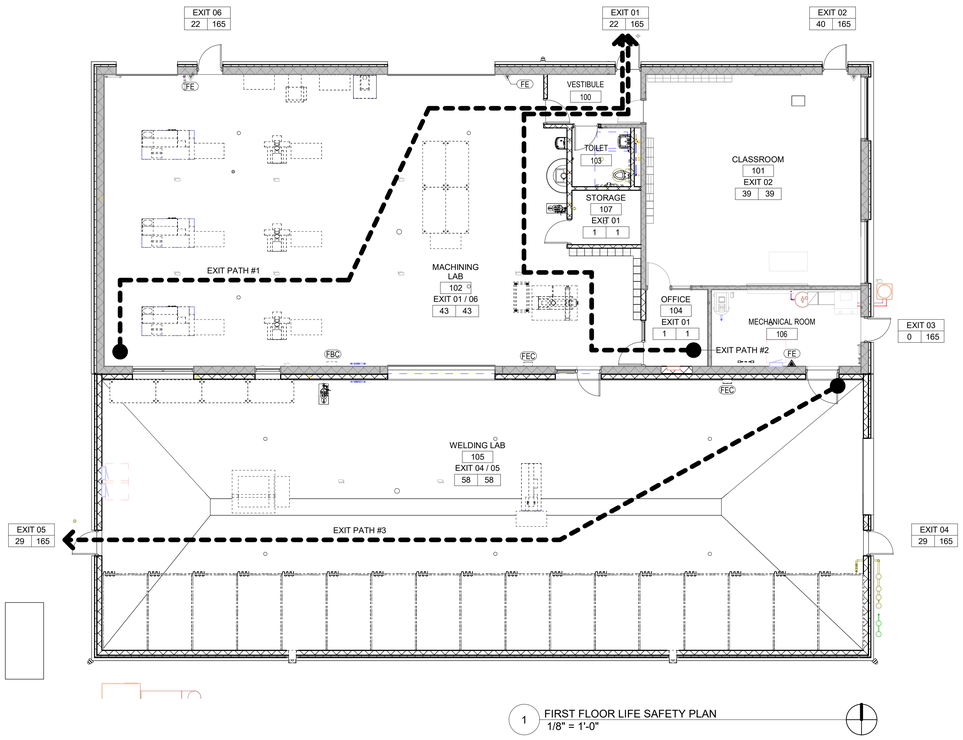

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

- ROOM NAME / 101 — ROOM IDENTIFICATION NUMBER
- EXIT # — PRIMARY EXIT NUMBER
- ACT CALC — OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE
- ACTUAL/ANTICIPATED OCCUPANT LOAD
- EXIT # — DOOR EXIT IDENTIFICATION NUMBER
- ACT CALC — DOOR CALCULATED EXIT CAPACITY
- DOOR ACTUAL EXIT CAPACITY
- EGRESS ROUTE
- EXIT PATH ID — EGRESS ROUTE IDENTIFICATION
- 1 - HOUR FIRE RESISTANCE RATING
- 2 - HOUR FIRE RESISTANCE RATING
- 3 - HOUR FIRE RESISTANCE RATING
- 4 - HOUR FIRE RESISTANCE RATING
- AREA OF RESCUE ASSISTANCE
- SP — STAND PIPE
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- KB — KNOX BOX
- TR — TRANSFORMER FOR ELECTRICAL SERVICE
- E — EMERGENCY ELECTRICAL SHUT OFF
- G — EMERGENCY GAS SHUT OFF
- W — EMERGENCY WATER SHUT OFF
- FEC — SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET
- FBC — SURFACE MOUNTED FIRE BLANKET CABINET
- FE — WALL MOUNTED FIRE EXTINGUISHER

BUILDING DATA - NEW CONSTRUCTION

APPLICABLE CODE	IBC 2015
USE GROUP	F-2
CONSTRUCTION TYPE (TABLE 601)	TYPE IIB
ALLOWABLE HEIGHT (TABLE 504.3)	55 FEET
ACTUAL HEIGHT	18'-8"
ALLOWABLE STORIES ABOVE GRADE (TABLE 504.4)	2
ACTUAL STORIES ABOVE GRADE	1
ALLOWABLE AREA (TABLE 506.2)	23,000 SF
NEW BUILDING FOOTPRINT	3,802 SF
EXISTING BUILDING FOOTPRINT	4,154 SF
TOTAL BUILDING AREA (EXISTING + NEW)	7,956 SF
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	NO

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS

BUILDING ELEMENT	RATING	UL APPROVED DESIGN NO.
PRIMARY STRUCTURAL FRAME		
BEAMS	0 HR	-
COLUMNS	0 HR	-
BEARING WALLS		
EXTERIOR	0 HR	-
INTERIOR	0 HR	-
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR	-
PERIMETER FIRESTOPPING AT EDGE OF SLAB	0 HR	-
FIRE WALL (TABLE 706.4)	3 HR	-
PARTY WALLS (TABLE 706.4)	3 HR	-
EXTERIOR WALL FIRE SEPARATION DISTANCE (TABLE 602)	1-HOUR: < 5' / 1-HOUR: 5' > X < 10' 1-HOUR: 10' ≥ X < 30' / 1-HOUR: ≥ 30'	

MEANS OF EGRESS - NEW CONSTRUCTION

	UNSPRINKLED
APPLICABLE CODE	IBC 2015
DOOR/CORRIDOR EGRESS WIDTH (1005.3.2)	0.2/PERSON
MAX. LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2)	200 FEET
MAX. LENGTH OF COMMON PATH EGRESS TRAVEL (TABLE 1006.2.1)	75 FEET

APPLICABLE CODES - NEW CONSTRUCTION

- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2015 INTERNATIONAL FIRE CODE (IFC)
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- NFPA 101 LIFE SAFETY CODE, 2012 EDITION
- 2010 AMERICANS WITH DISABILITIES ACT (ADA)
- IOWA ELECTRICAL CODE AS ADOPTED BY IOWA ELECTRICAL LICENSING BOARD
- IOWA MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE
- IOWA PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE

SAFETY REFERENCE NOTES

IT IS THE ARCHITECT'S UNDERSTANDING THAT APPROXIMATELY 14 CYLINDARS OF GASES ARE USED DAILY OF VARYING GASSES INLUCDING CO2 AND ARGON MIXES, ARGON, ACETYLENE AND OXYGEN . DELIVERIES OCCUR WITHIN 24 HOURS OF PLACING ORDERS FOR GAS, THEREFORE VERY LIMITED GAS STORAGE WILL BE KEPT ON SITE AS MOST OF THE GAS IS BEING USED.

PLUMBING FIXTURE COUNT

ASSEMBLY OF NONCOMBUSTABLE MATERILAS INLCUDING METAL: F-2

OCCUPANT LOAD: 142	FIXTURES REQUIRED PER CODE	REQUIRED	ACTUAL
WATER CLOSET	1 PER 100	2	1
LAVATORIES	1 PER 100	2	1
DRINKING FOUNTAINS	1 PER 400	1	1
SERVICE SINKS	1 PER FLOOR	1 PER FLOOR	1 PER FLOOR

THE ADDITIONAL WATER CLOSET AND LAVATORY TO BE LOCATED IN THE MAIN HIGH SCHOOL BUILDING IN ACCORDANCE TO IBC 2015 SECTION 2902.3.2: THE PATH OF TRAVEL TO THE MAIN HIGH SCHOOL BUILDING IS WITHIN 500'-0" OF THE METALS LAB.

OCCUPANT LOAD SCHEDULE

ROOM ID NUMBER	ROOM NAME	AREA	SF / OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
EXIT 01					
100	VESTIBULE	79 SF	0		0
103	TOILET	59 SF	0		0
104	OFFICE	81 SF	100	1	1
107	STORAGE	64 SF	300	1	1
				2	2
EXIT 01 / 06					
102	MACHINING LAB	2118 SF	50	43	43
				43	43
EXIT 02					
101	CLASSROOM	774 SF	20	39	39
				39	39
EXIT 04					
106	MECHANICAL ROOM	195 SF	0		0
				0	0
EXIT 04 / 05					
105	WELDING LAB	2879 SF	50	58	58
				58	58
TOTAL OCCUPANCY				142	142

EXIT DOOR SCHEDULE

DOOR EXIT ID	DOOR WIDTH	CLEAR WIDTH (INCHES)	MEANS OF EGRESS CAPACITY FACTOR	CALCULATED EXIT CAPACITY	ACTUAL EXIT CAPACITY
EXIT 01	3'-0"	33	0.2	165	22
EXIT 02	3'-0"	33	0.2	165	40
EXIT 03	3'-0"	33	0.2	165	0
EXIT 04	3'-0"	33	0.2	165	29
EXIT 05	3'-0"	33	0.2	165	29
EXIT 06	3'-0"	33	0.2	165	22

EXIT TRAVEL DISTANCES

EXIT PATH ID	TRAVEL DISTANCE
EXIT PATH #1	98'-7"
EXIT PATH #2	76'-8"
EXIT PATH #3	106'-0"

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SIGNATURE

DATE

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CODE INFORMATION & SAFETY REFERENCE PLANS

G-101

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ABBREVIATIONS

ABB	DESCRIPTION
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ARCHITECTURAL CONCRETE
ACM	ALUMINUM COMPOSITE MATERIAL
ACT	ACOUSTIC CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
ADO	AUTOMATIC DOOR OPENER
ADOP	AUTOMATIC DOOR OPENER ON PEDESTAL
AEC	ARCHITECTURALLY EXPOSED CONCRETE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALUM / AL	ALUMINUM
ANOD	ANODIZED
AOR	AREA OF REFUGE
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARA	AREA OF RESCUE ASSISTANCE
ARCH	ARCHITECTURAL
ASS	ACOUSTICAL SEALANT
ASH	ADJUSTABLE SHOWER HEAD
AWP	ACOUSTIC WALL PANEL
B	BASE CABINET
B/	BOTTOM OF
BBT	BIO-BASED TILE
BD	BOARD
BF	BOTTLE FILLER
BLK	BLOCKING
BO	BY OWNER
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
CB	CATCH BASIN
CD	CORNICE DRAIN
CG	CORNER GUARD
CH	COAT HOOK
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CP	CENTER POINT
CPT	CARPET (BROADLOOM)
CPTT	CARPET TILE
CR	CARD READER
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTW	CERAMIC TILE WALL
D	DATA OUTLET
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISH	DISHWASHER
DLO	DAYLITE OPENING
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DOMESTIC WATER
DWG	DRAWING
EA	EACH
EC	EXPOSED CONSTRUCTION
EF	EACH FACE
EH	EXHAUST HOOD

ABBREVIATIONS

ABB	DESCRIPTION
EHD	ELECTRIC HAIR DRYER
EJ	EXPANSION JOINT
EL / ELEV	ELEVATION
ELEC	ELECTRICAL
EMS	ENTRANCE MAT SYSTEMS
EP	ELECTRICAL PANEL
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EX / EXIST	EXISTING
EXP	EXPOSED
EXR	EXISTING TO REMAIN
F	FLUSH DOOR
F/	FACE OF
FAAP	FIRE ALARM SYSTEM ANNUNCIATOR PANEL
FAB	FABRIC
FACP	FIRE ALARM CONTROL PANEL
FAP-X	FABRIC WRAPPED ACOUSTIC PANEL - (X = THICKNESS OF THE PANEL)
FB	FACE BRICK
FBN	FLIP BENCH
FBO	FURNISHED BY OWNER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FECB	FIRE EXTINGUISHER, CABINET AND BLANKET
FF	FACTORY FINISH
FG	FULL GLASS DOOR
FG-2	FULL GLASS DOOR - PAIR
FH	FULL HEIGHT
FL	FLUSH LOUVER DOOR
FL-2	FLUSH LOUVER DOOR - PAIR
FLR	FLOOR
FOF	FACE OF FOUNDATION
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FT	FOOT / FEET
GA	GAUGE
GALV	GALVANIZED
GAS	GAS METER AND REGULATOR
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GL BLK	GLASS BLOCK
GLZ	GLAZING
GRND	GROUND
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HD	ELECTRIC HAND DRYER
HDS	HIGH DENSITY STORAGE
HDWR	HARDWARE
HG	HALF GLASS DOOR
HG-2	HALF GLASS DOOR PAIR
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HPC	HIGH PERFORMANCE COATING
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IPS	INTERIOR PAINT SYSTEM
JC	JANITOR'S CLOSET
JT	JOINT
KB	KNOX BOX
KS	KNEE SPACE
LAM	LAMINATED
LAV	LAVATORY
LIN	LINOLEUM
LP	LOW POINT

ABBREVIATIONS

ABB	DESCRIPTION
LTL	LINTEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	MIRROR
MAT'L	MATERIAL
MAX	MAXIMUM
MB#	MARKERBOARD (#DENOTES WIDTH, REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
MCM	METAL COMPOSITION MATERIAL
MD	MASONRY DIMENSION
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR / MANUF	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
ML	MATCH LINE
MO	MASONRY OPENING
MP	METAL PANEL
MST	MOSAIC TILE
MSTB	MOSAIC TILE BASE
MT	METAL TRANSITION
MTD	MOUNTED
MTL	METAL
MU	MECHANICAL UNIT
MW	MICROWAVE
MWL	METAL WARDROBE LOCKER
MX	MAILBOX UNIT
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NL	NARROW LIGHT DOOR
NLR	NARROW LIGHT DOOR - RATED
NLR-2	NARROW LIGHT DOOR - RATED PAIR
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OCD	OVERHEAD COILING DOOR
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OSB	ORIENTED STRAND BOARD
OSD	OPEN SITE DRAIN
P	PHONE OUTLET
PART	PARTITION
PATT	PATTERN
PC	PRECAST CONCRETE
PCO	POLISHED CONCRETE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLWD	PLYWOOD
PNT	PAINT
PR	PAIR
PREFAB	PREFABRICATED
PSE	MOTORIZED PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSM	MANUAL PROJECTION SCREEN
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PTD	PAPER TOWEL DISPENSER
PTD	PAINTED
PTF	PORCELAIN TILE FLOOR
PTST	PORCELAIN TILE STAIR TREAD
PTTWS	PORCELAIN TILETACTILE WARNING STRIP
PTW	PORCELAIN TILE WALL
PVC	POLYVINYL CHLORIDE
Q	QUAD POWER OUTLET
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS

ABBREVIATIONS

ABB	DESCRIPTION
RAL	ROOF LADDER
RB	RUBBER BASE
RBST	RUBBER STAIR TREAD
RD	ROOF DRAIN
REF	REFERENCE / REFER TO
REF	REFRIDGERATOR
REINF	REINFORCED
REQD	REQUIRED
RES	RESINOUS FLOORING
RESB	RESINOUS INTEGRAL BASE
REV	REVISION
RF	RUBBER FLOOR
RFT	RUBBER FLOOR TILE
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RESIN PANEL
RSE	ROLLER SHADE - MOTORIZED
RSES	SKYLIGHT ROLLER SHADE - MOTORIZED
RSL	ROLLER SHADE LEFT CONTROL
RSR	ROLLER SHADE RIGHT CONTROL
RT	RESILIENT TRANSITION
RTU	ROOF TOP UNIT
RUBR	RUBBER
SC	SHOWER CURTAIN
SD	SOAP DISPENSER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SPEC	SPECIFICATION
SPM	SINGLE PLY MEMBRANE
SQ	SQUARE
SS / ST STL	STAINLESS STEEL
SSF	SOLID SURFACE
SSG	SILICONE STRUCTURAL GLAZING
ST	SEALANT TAPE
ST	STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STT	STONE THRESHOLD
STV	STOVE
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
T	TALL STORAGE CABINET
T/	TOP OF
TB#	TACKBOARD (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)
TBR	TOWEL BAR
TC	TOILET COMPARTMENT
TD	TRENCH DRAIN
TEL	TELEPHONE
TFF	TOP OF FINISH FLOOR
THK	THICK
TP	TOILET PAPER
TPD	TOILET PAPER DISPENSER
TPO	THERMOPLASTIC OLEFIN
TRZ	TERRAZZO
TS#	TACK STRIP (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	URINAL SCREEN
VB	VAPOR BARRIER
VB	VINYL BASE
VBFS	RECESSED VOLLYBALL FLOOR SLEEVE
VC	VOLUME CONTROL
VCT	VINYL COMPOSITION TILE

ABBREVIATIONS

ABB	DESCRIPTION
VDB	VISUAL DISPLAY BOARD
VEND	VENDING MACHINE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENT PIPE
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WALL CABINET
W/	WITH
WD	WASHER / DRYER
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WM	WALKOFF MAT
WP	WATERPROOF
WPNL	WOOD PANEL
WPT	WORK POINT
WWF	WELDED WIRE FABRIC
YCO	YARD CLEAN OUT

GENERAL NOTES

1. ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT LOCATION.
2. THE TRADE CONTRACTORS' PERSONNEL SHALL NOT BE ALLOWED ON THE PROJECT SITE WITHOUT COMPLYING WITH THE OWNER'S SECURITY PROTOCOLS.
3. WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGENT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S) SHALL APPLY. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS; FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS; AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.
4. THE CONTRACT DOCUMENTS IDENTIFY THE MINIMUM AMOUNT OF WORK REQUIRED. TRADE CONTRACTORS SHALL PROVIDE THE EXTENT OF WORK NECESSARY FOR A COMPLETE INSTALLATION.
5. REFER TO THE PROJECT MANUAL FOR PRODUCTS, MATERIALS, AND PROCEDURES NOT IDENTIFIED ON THE CONTRACT DRAWINGS.
6. THE ACTUAL AREA(S) OF WORK SHALL BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. EXISTING DIMENSIONS AND HATCHED AREAS INDICATED ON CONTRACT DOCUMENTS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY.
7. PRIOR TO BIDDING, THE TRADE CONTRACTORS SHALL FIELD VERIFY THE EXTENT OF WORK REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. ADDITIONAL WORK THAT IS REQUIRED, WAS VISIBLE, AND COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER.
8. THE TRADE CONTRACTORS SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OR CONSTRUCTION MANAGER OF ANY CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO PREPARING SUBMITTALS OR BEGINNING ANY WORK.
9. THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY CONSTRUCTION AND/OR SHORING REQUIRED TO PROPERLY EXECUTE THE REQUIREMENTS OF THEIR CONTRACT.
10. ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK IS NOT BEING PERFORMED. THE TRADE CONTRACTORS SHALL NOT REMOVE EXISTING DOORS, FRAMES, WINDOWS. ETC. UNTIL REPLACEMENTS ARE ONSITE AND READY FOR INSTALLATION. IF INSTALLATION OF DOORS, FRAMES, WINDOWS, ETC. CANNOT BE COMPLETED BY THE END OF THE WORK DAY, THE RESPONSIBLE TRADE CONTRACTORS SHALL PROVIDE TEMPORARY WEATHERPROOF CONSTRUCTION AS REQUIRED TO SECURE THE BUILDING TO THE SATISFACTION OF THE OWNER AND RESTORE AFFECTED SURFACES TO THEIR ORIGINAL CONDITION.
11. PATCHING, REPAIRING, AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE EXISTING ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE IN MATERIAL, FINISH, COLOR, TEXTURE AND SHEEN. REFER TO THE CONTRACT DRAWINGS FOR EXISTING BUILDING CONSTRUCTION TO REMAIN.
12. TRADE CONTRACTORS SHALL PROTECT THEIR WORK AND EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN TO PREVENT DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED DURING THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED, AND REFINISHED BY THE RESPONSIBLE TRADE CONTRACTOR TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
13. THE ARCHITECT SHALL REVIEW AND APPROVE LOCATIONS FOR ALL JUNCTION BOXES AND RACEWAYS PRIOR TO INSTALLATION OF WIRING / CABLING.
14. EXISTING SITE FEATURES, MATERIALS, AMENITIES, LANDSCAPING, ETC. DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED, REPAIRED, OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
15. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE CONSTRUCTION CAN PROCEED SMOOTHLY, WITHOUT TRADE INTERFERENCE OR WASTE OF TIME AND MATERIAL.
16. ***WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.***

GENERAL CONSTRUCTION / RENOVATION NOTES

1. AFTER REMOVAL OF ITEMS IDENTIFIED TO BE REMOVED, CLEAN AND REPAIR THE EXISTING SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS. FINISHES TEXTURE, PATTERN, COLOR AND SHEEN OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.
2. WHERE EXISTING EQUIPMENT IS REMOVED AND NEW EQUIPMENT IS SMALLER AND INSTALLED IN THE SAME LOCATION, CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.
3. EXISTING AND NEW FIRE RATED ASSEMBLIES ARE TO BE MAINTAINED AND BE IN CONFORMANCE WITH APPLICABLE CODES. PENETRATIONS SHALL BE CONSTRUCTED AND SEALED AS REQUIRED; NEW FIRE RATED ASSEMBLIES SHALL BE INSPECTED, CERTIFIED, AND APPROPRIATELY LABELED ABOVE CEILINGS.
4. ALL PENETRATIONS THROUGH ANY MATERIAL SHALL BE SEALED WITH A COMPATIBLE MATERIAL APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
5. MASONRY INFILL AND/OR PATCHING SHALL MATCH THE MATERIAL, SIZE, FINISH, COLOR, TEXTURE AND COURSING OF EXISTING MASONRY TO REMAIN. NEW MASONRY SHALL BE WHOLE UNITS TOOTHED IN TO THE EXISTING MASONRY. NO SAW CUT EDGES WILL BE ALLOWED. MORTAR JOINTS TO MATCH COLOR, TEXTURE AND PROFILE OF ADJACENT MASONRY.
6. STRUCTURAL LINTELS ARE REQUIRED AT ALL OPENINGS AND RECESSES IN LOAD BEARING AND NON-LOAD BEARING MASONRY WALLS. REFER TO STRUCTURAL DRAWINGS.
7. EXPOSED OUTSIDE CORNERS OF INTERIOR CONCRETE MASONRY UNITS SHALL BE ROUNDED. U.N.O.
8. PROVIDE A CONTINUOUS BEAD OF SEALANT BETWEEN DISSIMILAR MATERIALS, U.N.O.
9. PROVIDE GALVANIC PROTECTION SEPARATING DISSIMILAR METALS.
10. ALL EXPOSED PIPING AND CONDUIT SHALL BE KEPT AS CLOSE AS POSSIBLE TO WALLS STRUCTURE, AND FLOOR/ROOF DECK.
11. ALL WALLS ABOVE DOORS/FRAMES TO EXTEND TO UNDERSIDE OF DECK, U.N.O.
12. ALL EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF FINISH MATERIAL, U.N.O.
13. SLOPE ALL CONCRETE AND/OR TOPPING TO FLOOR DRAINS; COORDINATE WITH PLUMBING DRAWINGS.
14. CENTER SPRINKLER HEADS AND LIGHT FIXTURES, SECURITY DEVICES, WAP'S, EXIT SIGNS, & SIMILAR DEVICES IN ACT TILES, U.N.O.
15. INSTALL WOOD BLOCKING AS NEEDED FOR ALL WALL MOUNTED ITEMS.

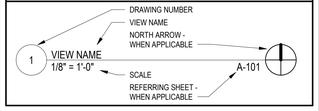
GENERAL FINISH NOTES

1. EXISTING SIGHT-EXPOSED SURFACES OF EXISTING PARTITIONS AND SOFFITS SHALL BE FINISH PAINTED.
2. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE FINISH PLANS AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. NEW PARTITIONS AND SOFFITS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION OR SOFFIT. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISH PAINTED.
3. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING PLASTER AND CONCRETE BLOCK WALLS;
   B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT; AND
   C. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
4. IN OCCUPIED SPACES IN AREAS OF RENOVATION, ALL SIGHT-EXPOSED MEPFP COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DO NOT PAINT MOVING PARTS OR LABELS.
5. DO NOT PAINT EXISTING FACE BRICK, GROUND FACE CMU OR SGFT, UNO.

GENERAL REFLECTIVE CEILING NOTES

1. ALL CEILING ELEVATIONS IDENTIFIED DENOTE HEIGHT ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY DRAWINGS FOR CEILING MOUNTED EQUIPMENT AND COMPONENTS NOT IDENTIFIED ON ARCHITECTURAL DRAWINGS.
3. IN AREAS WITH NO FINISHED CEILING SYSTEM REFER TO ELECTRICAL DRAWINGS FOR LUMINARIES AND SPACING.
4. REFER TO FINISH PLANS FOR ADDITIONAL INFORMATION REGARDING:
   A. PAINTING OF CEILING COMPONENTS;
   B. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM TYPES TO BE PROVIDED;
   C. CEILING HUNG WINDOW TREATMENTS
5. PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF EXISTING CONDITIONS PREVENT NEW CEILING SYSTEMS FROM BEING INSTALLED AS DRAWN AND NOTED.
6. PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS DOES NOT MATCH QUANTITY AND/OR SPACING OF LIGHT FIXTURES ON ARCHITECTURAL DRAWINGS.
7. LIGHT FIXTURES IN CORRIDORS ARE TO BE CENTERED IN THE WIDTH OF THE CORRIDOR UNLESS NOTED OTHERWISE.
8. ALL CEILING TILES SHALL BE TYPE 1 UNLESS NOTED OTHERWISE:
   A. PROVIDE TYPE 2 CEILING TILES IN TOILET ROOMS.
9. PAINT ALL GYPSUM CEILINGS

DRAWING TITLE KEY



MATERIAL PATTERN LEGEND

CUT PATTERNS

- ALUMINUM
- BRICK
- CONCRETE
- CONCRETE MASONRY UNIT / BLOCK
- EARTH - UNDISTURBED EARTH - TOP SOIL / BACKFILL
- GRAVEL
- GYPSUM BOARD GROUT
- PLASTIC LAMINATE
- PLYWOOD
- RIGID INSULATION
- SOLID SURFACE
- SPRAY FOAM INSULATION
- STEEL

SURFACE PATTERNS

- BRICK
- CONCRETE MASONRY UNIT / BLOCK
- CONCRETE
- GYPSUM BOARD
- METAL MESH
- RUBBER TACTILE WARNING PAD

LINE TYPES

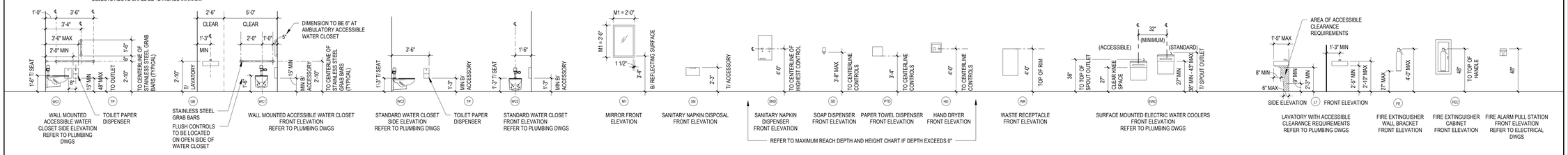
- BEYOND
- CENTER, GRID
- DEMOLITION
- EXISTING (HALFTONE)
- HIDDEN
- MATCHLINE
- NEW (CUT)
- NEW (PROJECTION)
- OVERHEAD

TYPICAL MOUNTING HEIGHTS

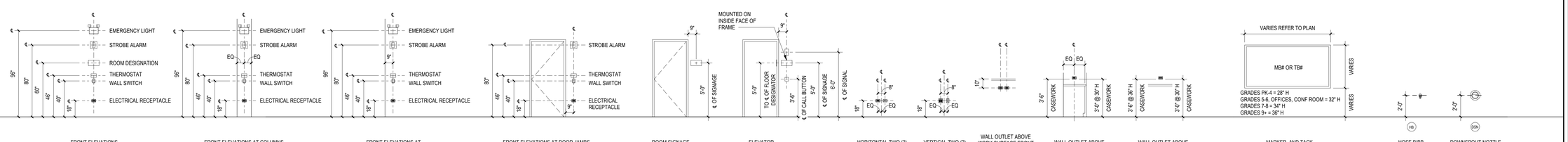
NOTE: NOT ALL FIXTURES, EQUIPMENT, ACCESSORIES, AND DEVICES SHOWN ARE APPLICABLE FOR THIS PROJECT

THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECT BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES MINIMUM AND THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM

GENERAL NOTES
1. ALIGN WALL-MOUNTED DEVICES ON CENTER VERTICALLY WHERE POSSIBLE
2. NO DEVICES TO BE LOCATED ON SURFACES DESIGNATED AS FEATURE WALLS
3. DIMENSIONS SHOWN ON INTERIOR ELEVATIONS SUPERCEDE DIMENSION SHOWN ON G-201



WALL MOUNTED ACCESSIBLE WATER CLOSET SIDE ELEVATION REFER TO PLUMBING DWGS · TOILET PAPER DISPENSER · WALL MOUNTED ACCESSIBLE WATER CLOSET FRONT ELEVATION REFER TO PLUMBING DWGS · STAINLESS STEEL GRAB BARS · FLUSH CONTROLS TO BE LOCATED ON OPEN SIDE OF WATER CLOSET · STANDARD WATER CLOSET SIDE ELEVATION REFER TO PLUMBING DWGS · TOILET PAPER DISPENSER · STANDARD WATER CLOSET FRONT ELEVATION REFER TO PLUMBING DWGS · MIRROR FRONT ELEVATION · SANITARY NAPKIN DISPOSAL FRONT ELEVATION · SANITARY NAPKIN DISPENSER FRONT ELEVATION · SOAP DISPENSER FRONT ELEVATION · PAPER TOWEL DISPENSER FRONT ELEVATION · HAND DRYER FRONT ELEVATION · WASTE RECEPTACLE FRONT ELEVATION · SURFACE MOUNTED ELECTRIC WATER COOLERS FRONT ELEVATION REFER TO PLUMBING DWGS · LAVATORY WITH ACCESSIBLE CLEARANCE REQUIREMENTS REFER TO PLUMBING DWGS · FIRE EXTINGUISHER WALL BRACKET FRONT ELEVATION · FIRE EXTINGUISHER CABINET FRONT ELEVATION · FIRE ALARM PULL STATION FRONT ELEVATION REFER TO ELECTRICAL DWGS



FRONT ELEVATIONS REFER TO ELECTRICAL & MECHANICAL DWGS · FRONT ELEVATIONS AT COLUMNS, BETWEEN DOORS, ETC. REFER TO ELECTRICAL & MECHANICAL DWGS · FRONT ELEVATIONS AT WALL CORNERS REFER TO ELECTRICAL & MECHANICAL DWGS · FRONT ELEVATIONS AT DOOR JAMBS REFER TO ELECTRICAL & MECHANICAL DWGS · ROOM SIGNAGE FRONT ELEVATION · ELEVATOR FRONT ELEVATION · HORIZONTAL TWO (2) RECEPTACLES · VERTICAL TWO (2) RECEPTACLES · WALL OUTLET ABOVE WORK SURFACE FRONT ELEVATION REFER TO ELECTRICAL DWGS · WALL OUTLET ABOVE CASEWORK SIDE ELEVATION REFER TO ELECTRICAL DWGS · WALL OUTLET ABOVE CASEWORK FRONT ELEVATION REFER TO ELECTRICAL DWGS · MARKER, AND TACK BOARDS FRONT ELEVATION REFER TO PLANS FOR LOCATIONS · HOSE BIBB FRONT ELEVATION REFER TO PLUMBING DWGS · DOWNSPOUT NOZZLE FRONT ELEVATION REFER TO PLUMBING DWGS

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

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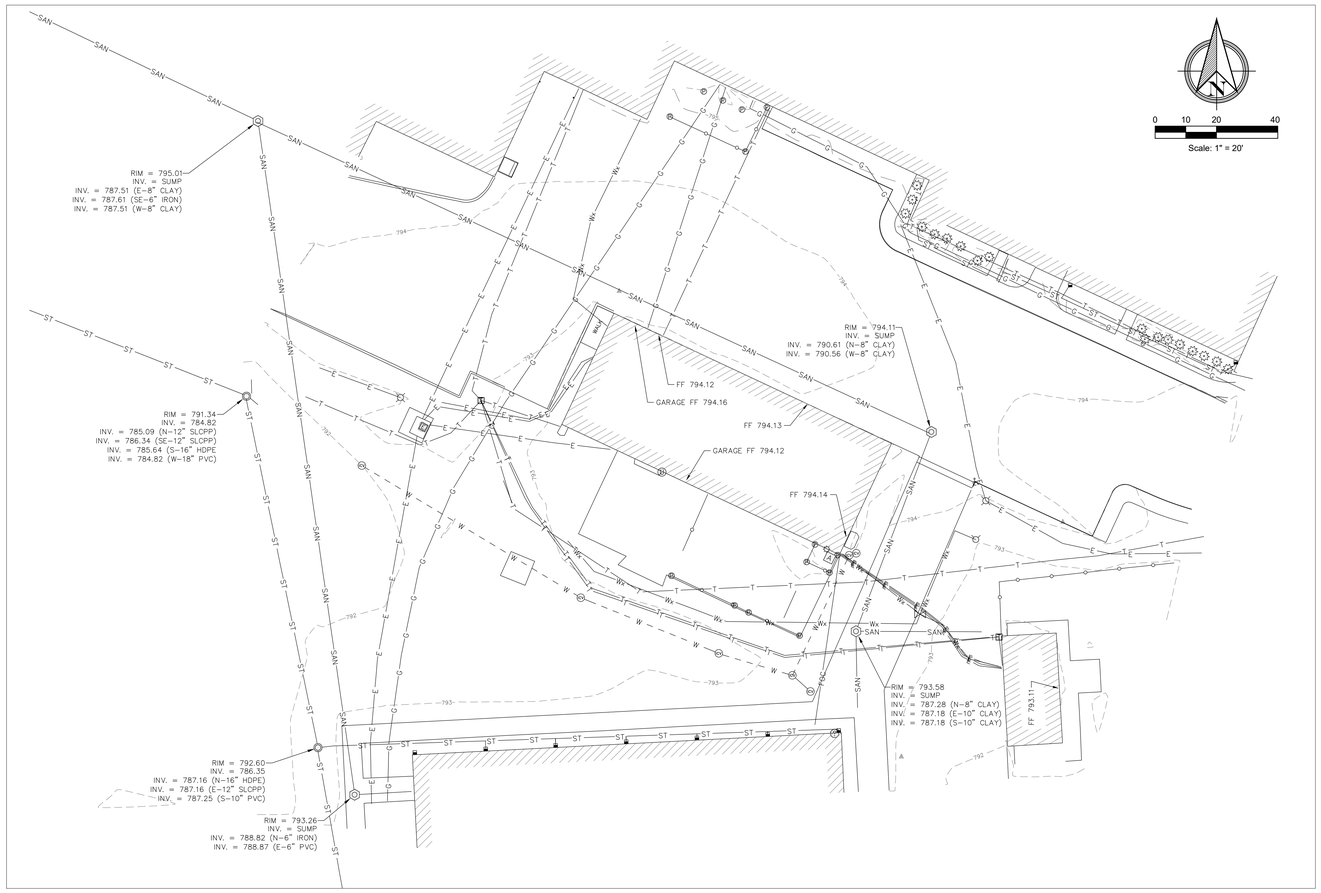
DATE OF ISSUE	10.17.2023
DRAWN BY	EM
CHECKED BY	JC

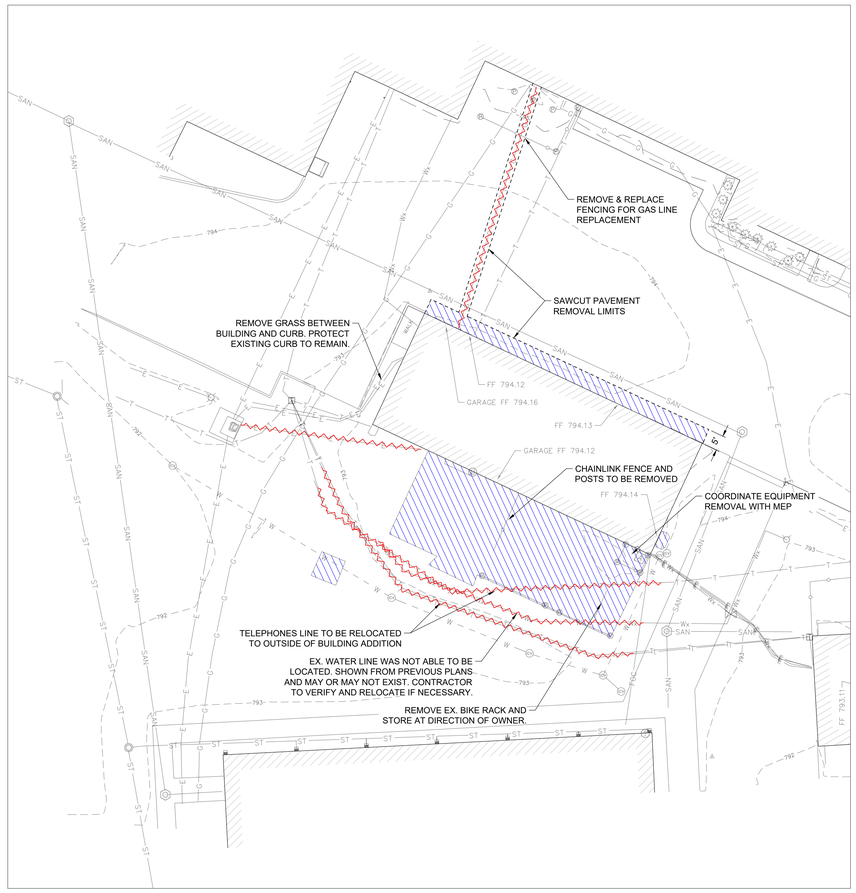
SYMBOLS AND PROJECT GENERAL NOTES

G-201

ISSUED FOR BIDDING



EXISTING SITE CONDITIONS



DEMOLITION PLAN

Know what's **below.**
Call before you dig.

EXISTING FEATURES LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- ELECTRIC TRANSFORMER
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- LIGHT POLE
- POST
- DOWNSPOUT
- ICV - IRRIGATION
- SANITARY SEWER
- STORM SEWER
- WATER LINE
- IRRIGATION LINE
- TELEPHONE / COMM LINE
- FIBER LINE
- ELECTRIC LINE - UNDERGROUND
- CHAIN LINK FENCE
- CONTOUR

REMOVAL LEGEND

- CONCRETE REMOVAL
- UTILITY LINE REMOVAL / RELOCATION

GENERAL NOTES:

1. ALL IMPROVEMENTS SHOWN SHALL COMPLY WITH THE CURRENT EDITIONS OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), CITY OF ELDRIDGE SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS, IOWA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (WHERE SPECIFIED), AND CITY OF ELDRIDGE CODE OF ORDINANCES AND STANDARDS.
2. TOPOGRAPHIC SURVEY AND BOUNDARY LOCATION FOR THE SITE WAS PROVIDED BY ABBITT LAND SURVEY & DEVELOPMENT.
3. LOCATIONS OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES WERE DETERMINED FROM AVAILABLE SURVEYS, RECORDS, AND FIELD INVESTIGATION. THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES MAY ALSO EXIST THAT ARE NOT SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES.
4. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, FEATURES, OR ANY OTHER CONFLICTING INFORMATION CONTAINED IN THE PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
6. IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
7. DEVELOPER OR CONTRACTOR RESPONSIBLE FOR ALL FIELD TESTING AND MATERIALS TESTING AS MAY BE REQUIRED BY THE CITY.
8. WORK SHALL BE PERFORMED IN A MANNER WHICH PROVIDES THE LEAST INTERFERENCE AND MOST PROTECTION TO THE PUBLIC. CONTRACTOR'S OPERATIONS SUBJECT TO APPROVAL BY THE CITY PRIOR TO BEGINNING WORK.
9. CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
10. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
11. KEEP ADJACENT PUBLIC STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS AS SOON AS FEASIBLE.

DEMOLITION NOTES

1. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER AND/OR ENGINEER, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES' REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
2. PROTECT ALL ITEMS WITHIN THE CONTRACT LIMITS NOT INDICATED TO BE REMOVED.
3. ANY EXISTING FACILITIES THAT ARE DAMAGED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO REMOVAL TO PREVENT DAMAGE TO ADJACENT SLABS AND FIXTURES.
5. CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
6. IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
7. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITY SERVICES AND FACILITIES AS NEEDED.
9. COORDINATE WITH OWNER OR ADJACENT PROPERTY OWNERS AS NECESSARY WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
10. USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
11. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF PROPERLY OFF-SITE.

LEGAT ARCHITECTS
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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
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IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE _____
DATE _____

REVISIONS

NO.	DESCRIPTION	DATE

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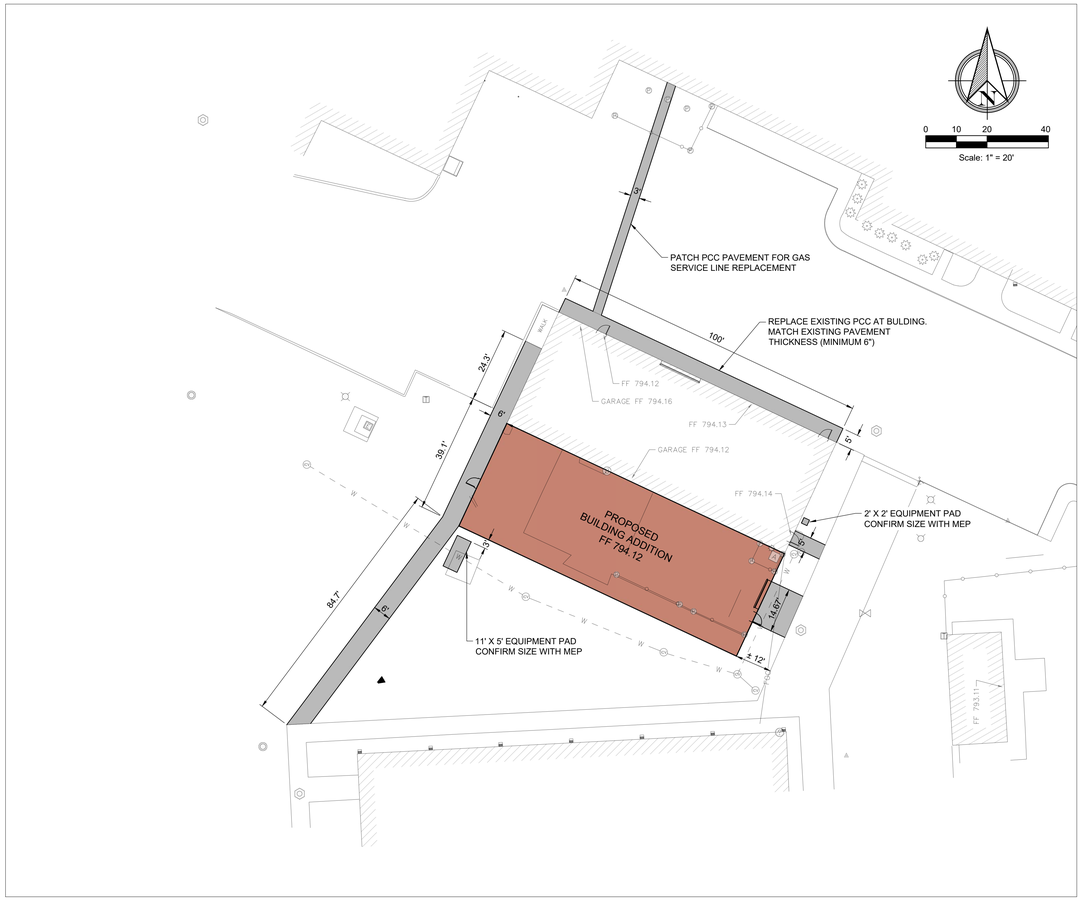
DATE OF ISSUE	10.17.2023
DRAWN BY	TH | CM
CHECKED BY	CM

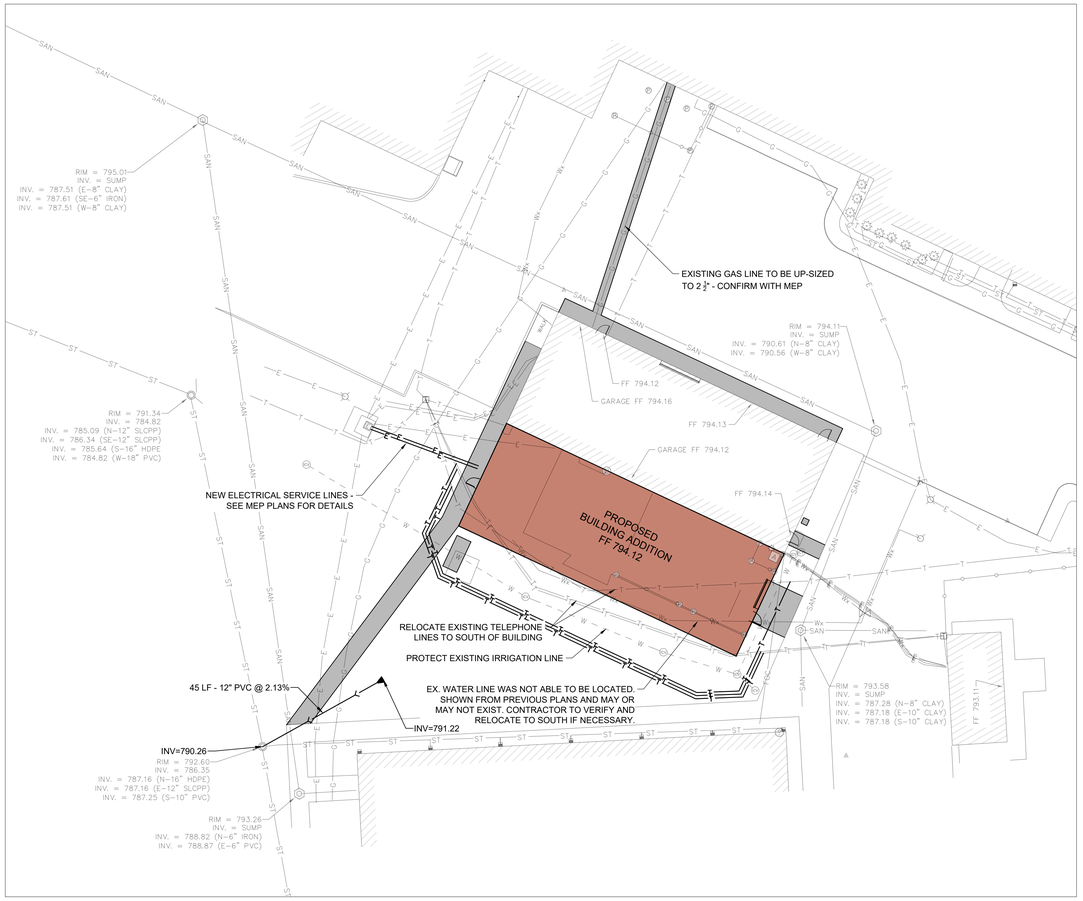
EXISTING CONDITIONS & DEMOLITION PLAN

C-101

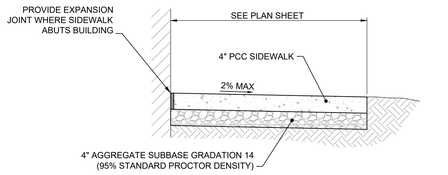
ISSUED FOR BIDDING



SITE LAYOUT



UTILITY PLAN



PCC SIDEWALK DETAIL - ADJACENT TO BUILDING

N.T.S.

CONSTRUCTION STAKING AND LAYOUT NOTES:

1. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL CONSTRUCTION.
2. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH WORK.
3. PAVING DIMENSIONS SHOWN ARE TO BACK OF CURB AND EDGE OF PAVEMENT OR SIDEWALK UNLESS NOTED OTHERWISE.
4. RADII ARE TO EDGE OF PAVEMENT OR TO BACK OF CURB LINE LOCATION UNLESS NOTED OTHERWISE.
5. SIDEWALK CURB RAMPS SHALL BE BUILT IN ACCORDANCE WITH FEDERAL AND STATE ACCESSIBILITY STANDARDS
6. SUBMIT SIDEWALK JOINTING PLAN TO ARCHITECT PRIOR TO CONSTRUCTION.
7. STAKING ELEVATIONS SHALL BE OBTAINED FROM THE PRINTED PLANS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
8. ELECTRONIC AUTODESK CIVIL3D FILES WILL BE PROVIDED TO AID CONSTRUCTION LAYOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LAYOUT THE LOCATIONS AND GRADES BASED ON THE PRINTED PLANS, USING THE PROVIDED ELECTRONIC FILES FOR ASSISTANCE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
9. VERIFY ALL COORDINATES PRIOR TO CONSTRUCTION. CHECK HORIZONTAL AND VERTICAL INFORMATION INCLUDING BUT NOT LIMITED TO ALIGNMENTS, LOCATIONS, ELEVATIONS, AND DIMENSIONS, THAT EITHER THE PLANS SHOW OR THE ENGINEER PROVIDES, FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOR REVIEW PRIOR TO STAKING.

UTILITY NOTES:

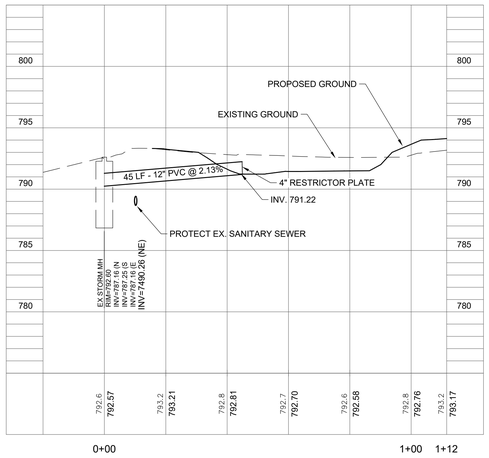
1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ELDRIDGE CODE OF ORDINANCES, CURRENT EDITION OF STATEWIDE URBAN STANDARDS AND SPECIFICATIONS (SUDAS),CITY OF ELDRIDGE STANDARD SPECIFICATIONS AND DETAILED DRAWINGS, AND CURRENT EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (IOWA DOT) WHERE REFERENCED.
2. LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED AS APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY AND IOWA ONE-CALL FOR LOCATION OF EXISTING LINES IN OR NEAR THE CONSTRUCTION AREA. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWINGS AND THE EXISTING FEATURES.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY MAJOR CONFLICTS BETWEEN THE DRAWING AND THE EXISTING FEATURES. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
4. NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITIES IF NEEDED.
5. COORDINATE WITH OWNER AND ADJOINING PROPERTIES WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
6. USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
7. ADJUSTMENTS OF UTILITY FIXTURES, VALVES, AND CASTINGS SHALL BE INCIDENTAL TO THE PAVEMENT AND GRADING ITEMS, UNLESS NOTED OTHERWISE. ANY DAMAGE MADE TO UTILITIES DURING ADJUSTMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
8. EXISTING UTILITY MARKERS SHALL BE CAREFULLY REMOVED, STORED, AND REINSTALLED AS REQUIRED FOR CONSTRUCTION. UTILITY MARKERS LOST OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

STORM SEWER NOTES:

1. SEE CITY OF ELDRIDGE SPECIFICATIONS FOR ALLOWABLE PIPE MATERIALS.
2. LENGTHS OF PIPE RUNS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES. SLOPES AND LENGTHS ARE BASED UPON THOSE MEASUREMENTS.
4. ADHERE TO ALL IOWA DNR WATER AND SEWER SEPARATION REQUIREMENTS.

TRENCH EXCAVATION AND BACKFILL:

1. EXCAVATE TRENCH TO UNIFORM WIDTHS AS SHOWN IN STANDARD DETAILS. TRENCH BOTTOM SHALL PROVIDE A SMOOTH, FIRM, STABLE, AND ROCK FREE FOUNDATION FOR THE ENTIRE LENGTH OF THE PIPE.
2. FOR UTILITIES IN FILL, CONSTRUCT COMPACTED EMBANKMENT TO A MINIMUM OF 2' ABOVE TOP OF PIPE ELEVATION PRIOR TO TRENCHING.
3. NOTIFY OWNER IF UNSUITABLE MATERIALS EXIST IN THE TRENCH. OVEREXCAVATE AS DEEMED NECESSARY BY THE OWNER, AND INSTALL TRENCH STABILIZATION MATERIAL BELOW THE BEDDING ELEVATION TO PROVIDE FOR PROPER PIPE OR STRUCTURE SUPPORT.
4. BACKFILL WITH GRANULAR MATERIALS AS SPECIFIED ABOVE TO 1' ABOVE PIPE FOR FLEXIBLE PIPE MATERIALS AND TO SPRINGLINE FOR RIGID PIPE MATERIALS.
5. REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIALS IN LOCATIONS BEYOND 2' OF PAVED SURFACES. USE GRANULAR BACKFILL MATERIALS WITHIN 2' OF PAVED SURFACES AS SPECIFIED ABOVE.
6. PLACE AND COMPACT SPECIFIED BACKFILL MATERIALS TO THE PROPOSED SUBGRADE OR SURFACE ELEVATIONS. COMPACT TO 95% OF STANDARD PROCTOR DENSITY BENEATH PAVEMENT AND WITHIN PUBLIC RIGHT-OF-WAY AND 90% OF STANDARD PROCTOR DENSITY IN OTHER LOCATIONS.



STORM SEWER PROFILE

UTILITY NOTE

ALL UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO THE ENGINEER. THERE MAY BE OTHER EXISTING UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES NOT KNOWN AND NOT SHOWN ON THIS THESE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CALL IOWA ONECALL (1-800-292-8989) FOR UTILITY LOCATES A MINIMUM OF 48-HOURS PRIOR TO DIGGING. REVIEW EXISTING UTILITY RECORDS SUPPLIED BY THE ARCHITECT AND PERFORM EXPLORATORY DIGGING AS NECESSARY TO VERIFY UTILITIES PRIOR TO ORDERING MATERIALS AND CONSTRUCTION OF IMPROVEMENTS.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE _____

DATE _____

REVISIONS

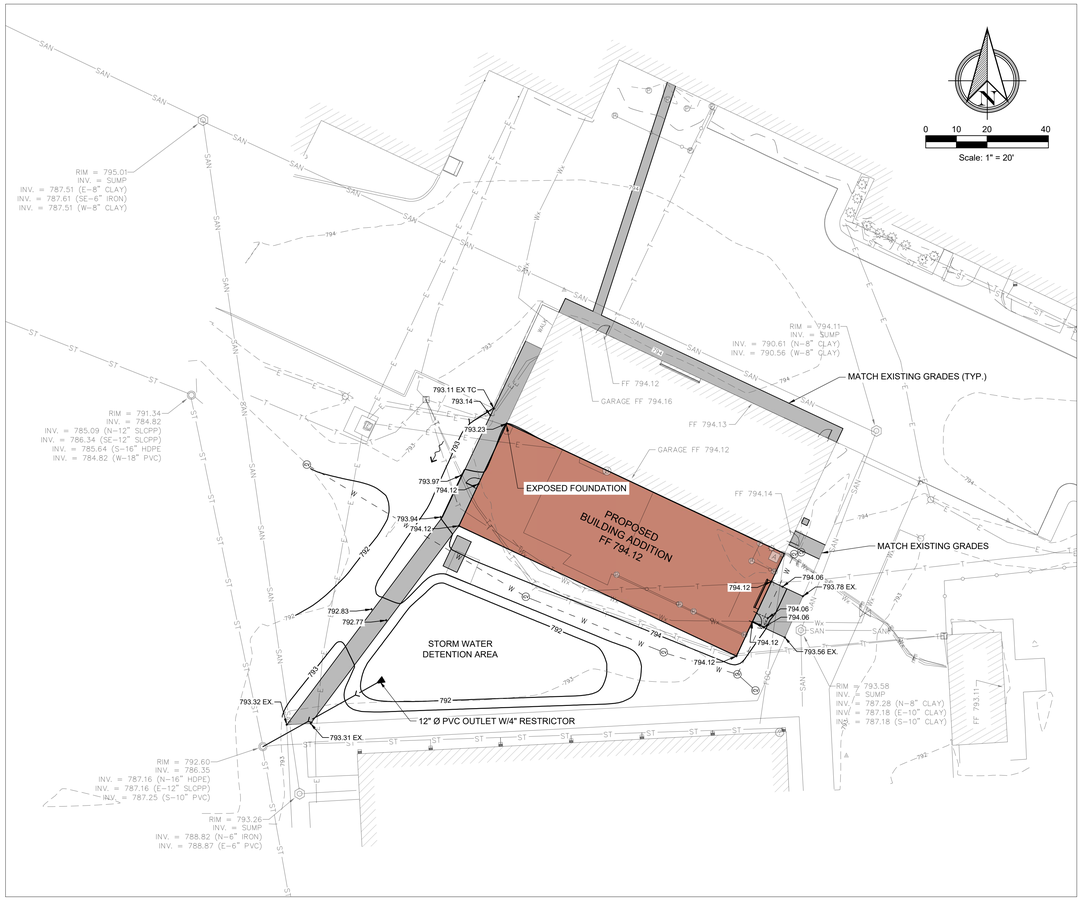
NO.	DESCRIPTION	DATE

PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	TH | CM
CHECKED BY	CM

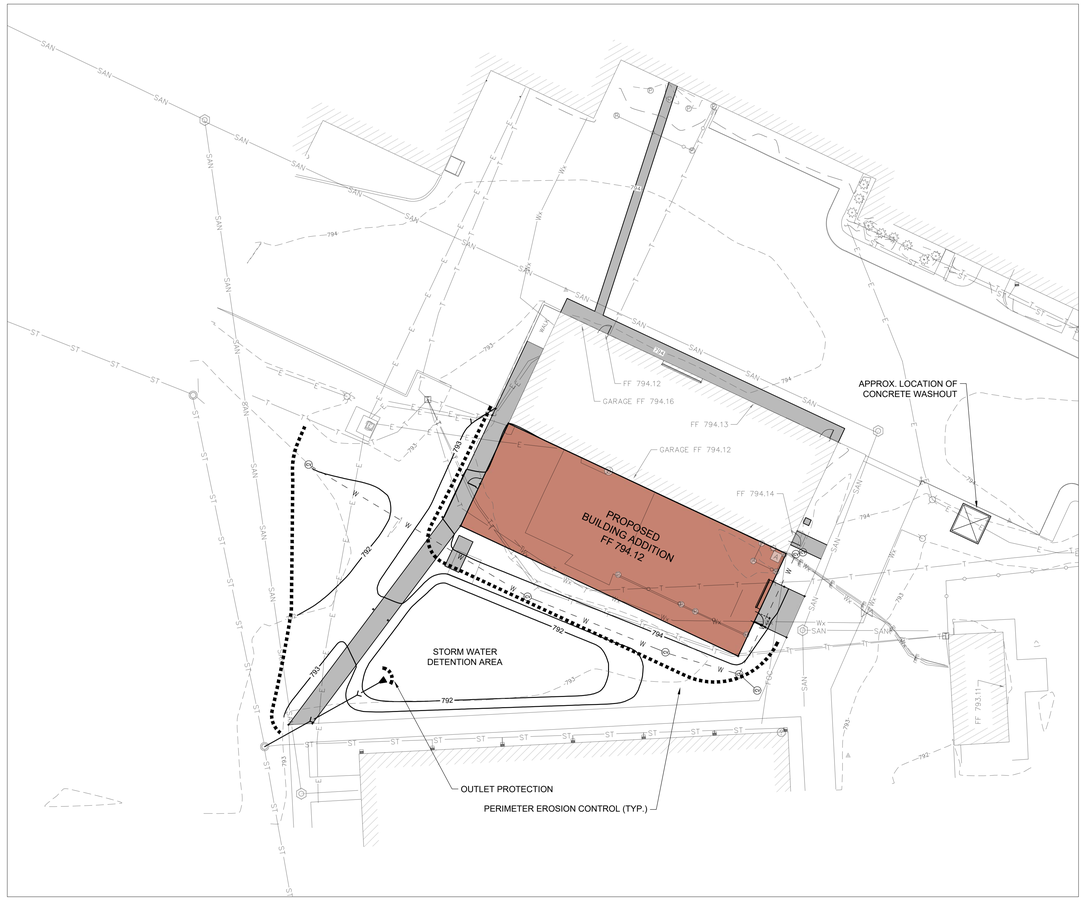
SITE LAYOUT & UTILITY PLAN

C-102

ISSUED FOR BIDDING



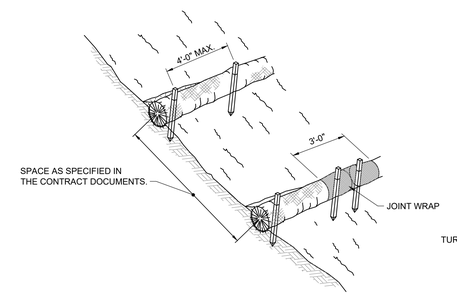
GRADING PLAN

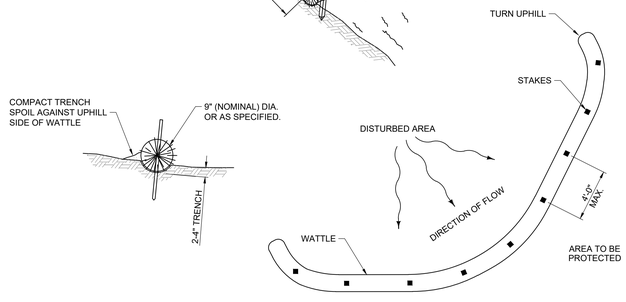


EROSION CONTROL PLAN

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL FOLLOW THE IOWA DNR REGULATIONS AND THE CITY OF ELDRIDGE GUIDELINES FOR EROSION CONTROL
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, MONITOR, INSPECT, AND MAINTAIN SITE EROSION CONTROL BEST MANAGEMENT PRACTICES AT ALL TIMES.
3. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITH NO PONDING.
4. EROSION CONTROL MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS (OR AS SOON AS PRACTICAL). IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, SEDIMENT TRAPS, CHECK DAMS, DIVERSION SWALES, ETC. AS REQUIRED UNTIL VEGETATION IS ESTABLISHED.
5. LOCATION OF EROSION CONTROL BARRIER SHOWN ON PLAN IS APPROXIMATE ONLY. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR AND RELOCATED AS NECESSARY DURING PROGRESSION OF CONSTRUCTION ACTIVITIES.
6. RUNS OF WATTLES, SILT FENCE, OR EROSION BARRIER SHALL NOT EXCEED 200 FEET.
7. THE LAST 20 FEET OF A RUN OF SILT FENCE OR EROSION BARRIER SHALL FLARE UP THE SLOPE OR IN THE DIRECTION FROM WHICH THE FLOW ORIGINATES.
8. INCORPORATE A MEANS OF EMERGENCY BYPASS TO PREVENT FLOODING DURING LARGE STORM EVENTS OR IF FILLED WITH SEDIMENT.
9. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF SEDIMENT. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED AS SOON AS PRACTICAL.
10. ALL DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, FINE GRADED, SEEDED, AND FERTILIZED. AREA TO BE COVERED WITH EROSION CONTROL BLANKETS OR OTHER METHOD APPROVED BY ARCHITECT.
11. ALL DEVICES AND MATERIALS ARE TO BE REGULARLY CHECKED, CLEANED OUT, AND REPAIRED AS NEEDED AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
12. IF NO ACTIVITY OCCURS OR IS ANTICIPATED FOR 14 DAYS, AREA SHALL BE STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY.

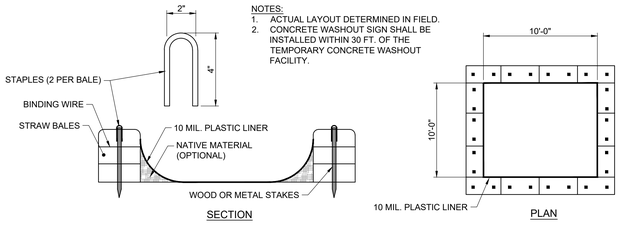




NOTES:

1. DETAIL DERIVED FROM SUDAS (DWG NO. 9040.105).

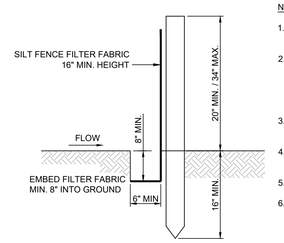
WATTLE (SUDAS)
N.T.S.



NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

TEMPORARY CONCRETE WASHOUT
N.T.S.



NOTES:

1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE OF THE SUPPORT POSTS USING ONE INCH MIN., LONG HEAVY-DUTY WIRE STAPLES OR TIE WIRES WITH EIGHT INCHES MIN. OF FABRIC EXTENDED INTO THE TRENCH. DO NOT STAPLE FABRIC TO TREES.
3. COMPACTED SOIL BACKFILL SHALL BE PLACED IN THE 8" BY 6" TRENCH ATOP THE EXTENDED FABRIC.
4. POSTS SHALL BE CONSTRUCTED OF 2" BY 2" HARDWOOD OR 2" BY 4" PINE BY 60" LONG OR AS AN ALTERNATE USE STEEL "T" OR "U" TYPE.
5. FILTER FABRIC SHALL BE NON-WOVEN "MIRAFI 100X" OR EQUAL.
6. SPACING OF POSTS SHALL BE A MAXIMUM OF 10'.

SILT FENCE DETAIL
N.T.S.

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SITE GRADING & EROSION CONTROL PLAN

C-103

ISSUED FOR BIDDING

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:

   IBC 2015
   IEBC 2015
   ASCE 7-10
   ACI 318-14
   ACI 530-13
   AISC 360-10
   AWS D1.1 AND D1.3

2. RISK CATEGORY II
3. LIVE LOADS:

TYPICAL ROOF	20 PSF (REDUCIBLE)
TYPICAL SLAB	100 PSF (REDUCIBLE)

4. SNOW:

GROUND SNOW	25 PSF
SNOW EXPOSURE FACTOR	0.9
THERMAL FACTOR	1.0
IMPORTANCE FACTOR	1.0
FLAT-ROOF SNOW	20 PSF
DESIGN SNOW	20 PSF
RAIN-ON-SNOW SURCHARGE	0 PSF
SEE S-001 FOR SNOW DRIFT PLAN	

5. SEISMIC:

SEISMIC DESIGN CATEGORY	B
IMPORTANCE FACTOR	1.0
SOIL CLASS	D
Ss	0.104 g
S1	0.060 g
Sds	0.111 g
Sd1	0.096 g
SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
R	2
Cd	1.75
Ωo	2.5
ρ	1.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR, STRENGTH LEVEL	V = Cs x W = 0.055 x W KIPS, E-W V = Cs x W = 0.055 x W KIPS, N-S

6. WIND:

BASIC WIND SPEED	V ULT = 120 MPH		
IMPORTANCE FACTOR	1.0		
EXPOSURE CLASS	B		
INTERNAL PRESSURE COEFFICIENT, GCpi	± 0.18		
ROOF COMPONENTS:	ZONE 1	ZONE 2	ZONE 3
SUPPORT BEAMS (A > 100 SF)	23.7 PSF	28.1 PSF	28.1 PSF
ROOF SHEATHING (A = 50 SF)	24.3 PSF	32.7 PSF	39.3 PSF
DECK FASTENERS (A ≤ 10 SF)	25.9 PSF	43.4 PSF	65.4 PSF
WALL COMPONENTS:	ZONE 4	ZONE 5	
A = 200 SF	21.1 PSF	22.5 PSF	
A = 50 SF	23.2 PSF	26.7 PSF	
A ≤ 20 SF	25.7 PSF	31.6 PSF	
BASE SHEAR, STRENGTH LEVEL	V = 3.5 KIPS, E-W V = 9.0 KIPS, N-S		

   C & C NOTES:
   a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
   b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
   c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
   d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
7. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY MASONRY SHEAR WALLS IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE STEEL ROOF DECKS SERVE AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
13. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
14. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

SUBMITTALS

1. SUBMITTALS ARE:
   a. CONCRETE MIX DESIGNS
   b. CONCRETE AND MASONRY REINFORCING
   c. STEEL FABRICATION AND MISCELLANEOUS METALS
   d. JOISTS
   e. STEEL DECK
2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
   a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED OCTOBER 6TH, 1969 BY STEWART-ROBINSON-LAFEN ARCHITECTS.
   b. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT OR STRUCTURAL ENGINEER SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
2. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY SO AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
3. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED JULY 10TH, 2023 BY TEAM SERVICES. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:

   ALLOWABLE NET SOIL BEARING PRESSURE:

FOOTINGS	1500 PSF
ANTICIPATE DEPTH TO ALLOWABLE SOIL BEARING	1'-0" TO 4'-0" FT BELOW EXISTING GRADE
FROST DEPTH	3'-6" FT

3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.
4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
5. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS, SHORING WILL BE REQUIRED. SEE THE GEOTECHNICAL REPORT FOR INFORMATION REGARDING THE DESIGN AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT.
6. CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
7. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
8. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL, OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
9. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.
10. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN 12" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D1557 AND TO THE APPROVAL OF THE INSPECTION AGENCY.
11. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
12. ANY REQUIRED IMPORT FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:

DEFORMED BARS	ASTM A615, GR 60	Fy = 60 KSI
WELDED WIRE REINFORCING	ASTM A1064	Fy = 65 KSI
STEEL WIRE	ASTM A1064	Fy = 60 KSI
DEFORMED BAR ANCHORS	ASTM A1064	Fy = 70 KSI
WELDABLE BARS, DEFORMED	ASTM A706, GR 60	Fy = 60 KSI

3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:

CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#6 BARS OR LARGER	2"
#5 BARS OR SMALLER	1 1/2"
BOUNDARY ELEMENTS	1 1/2"

4. BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 319. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS:

BAR SIZE	3000 PSI CONCRETE		4000 PSI CONCRETE	
	OTHER	TOP	OTHER	TOP
#3	22	28	19	25
#4	29	38	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81

   LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.
5. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH AWS D1.4.
6. DEFORMED BAR ANCHORS (DBA) SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER.
7. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
8. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND ENDS.
9. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NO SPLICES ARE PERMITTED WITHIN THE SPECIFIED LENGTH WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
10. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
11. REINFORCING IN WALL FOOTINGS SHALL BE DEVELOPED (Ld) INTO COLUMN FOOTINGS.
12. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE.
13. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
14. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
15. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL BARS AS REQUIRED OR INDICATED ON THE DRAWINGS.
16. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
17. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENT OF ACI 318.
18. REINFORCE ALL ARCHITECTURAL CONCRETE TOPPING SLABS WITH 6x6-W1.4xW1.4 WWR UNLESS OTHERWISE NOTED.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NOTED.
2. CONCRETE MATERIALS SHALL CONFORM TO:

CEMENT	ASTM C150, TYPE I OR II
FLY ASH	ASTM C618, TYPE C OR F
FINE AND COARSE AGGREGATE	ASTM C33
WATER	POTABLE
AIR-ENTRAINING ADMIXTURE	ASTM C260
WATER REDUCING ADMIXTURE	ASTM C494

   CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	STRENGTH (PSI)	EXPOSURE CLASS
FOOTINGS	3000	F0,S0,W0,C0
FOUNDATION WALLS AND PIERS	4000	F3,S0,W0,C2
INTERIOR SLAB ON GRADE	4000	F0,S0,W0,C0
UNLESS OTHERWISE NOTED	4000	F2,S0,W0,C0

   NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED.
3. THE MODULUS OF ELASTICITY OF ALL CONCRETE SHALL EXCEED 57,000 SQRT(f'c) FOR NORMAL-WEIGHT CONCRETE OR wc1.5 33 SQRT(f'c).
4. DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
5. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR SPECIAL CASES.

THICKNESS (IN)	MAXIMUM JOINT SPACING EACH WAY (FT)
4	12
5	13
6	15
8	18
10	20
12	22

6. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE.
7. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
8. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED TO 1/4" AMPLITUDE BY SAND BLASTING OR MECHANICAL MEANS. CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
9. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.
10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS.
11. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.
12. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 26.8.
13. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE COLUMNS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
14. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
15. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
16. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL REINFORCING.
17. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS.
18. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
19. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED ITEMS.
20. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
21. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED.
22. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
23. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
24. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING, AS WELL AS THEIR CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
25. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
26. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
27. DURING WINTER CONSTRUCTION, ALL FOOTINGS SHALL BE PROTECTED FROM FROST PENETRATION UNTIL THE BUILDING IS ENCLOSED AND TEMPORARY HEAT IS PROVIDED.
28. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON SLAB-ON-GRADE.
29. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530/530.1 TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:

DESIGN ASSEMBLY STRENGTH, f'm	2500 PSI
INDIVIDUAL CONCRETE MASONRY UNITS	3250 PSI
GROUT	2500 PSI

3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:

CONCRETE MASONRY UNITS	ASTM C90, NORMAL WEIGHT
MORTAR	ASTM C270, TYPE S
GROUT	ASTM C476
JOINT REINFORCING	ASTM A82

4. WIRE REINFORCING PER ASTM A82 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING:

RUNNING BOND	9 GA @ 16" OC (ALL WIDTHS)
BELOW GRADE WALLS	9 GA @ 8" OC
OTHERTHANRUNNINGBOND	9 GA @ 16" OC (6"-8" WIDTH) 9 GA @ 8" OC (10"-16" WIDTH)

5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
6. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING CMU WALLS TO UNDERSIDE OF LINTEL PLUS ONE CELL BEYOND BEARING LENGTH.
7. PROVIDE MINIMUM 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNLESS OTHERWISE NOTED. VERTICAL REINFORCING BARS SHALL SECURELY BE HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
8. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED.
9. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL.
10. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
11. LIFTS OF GROUT SHALL BE KEYED 1 1/2 INCHES INTO THE PREVIOUS COURSE BELOW.
12. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
13. EXCEPT FOR WALL PILASTERS, VERTICAL REINFORCEMENT SHALL BE FIELD CUT FOR 4'-0" LIFTS AND LAP SPLICED PER LAP LENGTH SCHEDULE.
14. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS, UNLESS OTHERWISE NOTED.
15. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND, UNLESS OTHERWISE NOTED.
16. ALL MULTIPLE WYTHE CMU WALLS SHALL BE GROUTED SOLID BETWEEN EACH WYTHE.
17. PROVIDE HORIZONTAL TIES WHERE CMU ABUTS CONCRETE.

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS AT LEAST 1 COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS SHALL BE SIZED PER THE FOLLOWING:

SPAN, L	STEEL OPTION (FOR EA 4" OF MASONRY) *
0' < L ≤ 4'-0"	L3 1/2x3 1/2x1/4
4'-0" < L ≤ 6'-0"	L4x3 1/2x5/16 (LLV)
6'-0" < L ≤ 8'-0"	L5x3 1/2x5/16 (LLV)
8'-0" < L ≤ 10'-0"	L6x3 1/2x3/8 (LLV)

SPAN, L	CMU OPTIONS
	8" BLOCK
0' < L ≤ 4'-0"	8" DEEP W/ (1) #4 BOTT
4'-0" < L ≤ 6'-0"	8" DEEP W/ (1) #4 BOTT
6'-0" < L ≤ 8'-0"	16" DEEP W/ (1) #4 BOTT
8'-0" < L ≤ 10'-0"	16" DEEP W/ (2) #5 BOTT

   *ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" @ 12" OC MINIMUM.
4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNLESS OTHERWISE NOTED.
5. TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNLESS OTHERWISE NOTED.

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fv = 120 KSI
WASHERS	ASTM F436	
HEADED STUD ANCHORS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF THE NUT METHOD.
6. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.
7. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
8. HEADED STUD ANCHORS (HSA): SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"ø.
9. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.
10. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
11. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
14. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
15. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
16. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:

	DETAILS WITH WELD INFORMATION		DETAILS WITH BOLT INFORMATION		MINIMUM END BEARING (IN)	
JOIST TYPE/SERIES	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
LH/DLH 02-06	3/16	2	3/4	A307	2 1/2	6

   WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT UNLESS OTHERWISE NOTED.
3. LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN OVER 360 FOR SPECIAL JOISTS AND JOIST GIRDERS.
4. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED WITHIN THE DESIGN CRITERIA AND LOADS SECTION. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE JOIST MANUFACTURER SHALL PROVIDE DIRECTION FOR REMOVAL AND REPLACEMENT OF ANY BRIDGING.
5. PROVIDE ANCHORS AT EACH END OF EACH ROW OF BRIDGING TOP AND BOTTOM CHORDS, EXCEPT AT EXPANSION JOINTS.
6. ALL JOIST HEADERS AND ACCESSORIES SHALL BE DESIGNED AND FURNISHED BY THE JOIST FABRICATOR.
7. STEEL JOISTS SHALL BE TOP CHORD BEARING UNLESS OTHERWISE NOTED ON PLANS.
8. THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION. JOIST DESIGNATIONS ON THE SHOP DRAWINGS SHALL BE THE SAME NUMBERS AS SHOWN IN THE SJI MANUAL.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
   A. CURRENT VERSION OF CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS
   B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 4TH EDITION FOR DIAPHRAGM LOADS
3. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
4. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAUGE.
6. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.
7. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR.
8. CONDUITS SHOULD NOT BE PLACED IN CONCRETE SLAB ON STEEL DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
9. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE FLOOR SYSTEMS WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
10. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
11. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED, DECK SHORING REQUIREMENTS, UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GIRDER STUD PROFILES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP DRAWINGS.

POST-INSTALLED ANCHORS

1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.
2. MECHANICAL ANCHORS:
   a. EXPANSION ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KB3 (ESR-1385)	DEWALT POWER STUD+ SD1 (ESR-2966) SIMPSON WEDGE-ALL (ESR-1396)
UNCRACKED CONCRETE	HILTI KB3 (ESR-2302)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)
CRACKED CONCRETE	HILTI KBTZ (ESR-1917)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)

   b. THREADED SCREW ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
GROUTED MASONRY	HILTI KWIK HUS-EZ (ESR-3056)	DEWALT WEDGE-BOLT+ (ESR-1678) SIMPSON TITEN HD (ESR-1056)
UNCRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)
CRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)

3. ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
HOLLOW MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) SIMPSON SET-XP (ESR-0265)
GROUTED MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) RED HEAD A7 ACRYLIC (ESR-3951) SIMPSON SET-XP (ESR-0265)
CONCRETE	HILTI HIT-HY 200 (ESR-3187)	DEWALT AC 200+ (ESR-4027) SIMPSON SET-3G (ESR-4057)

IMEG
623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.786.5967
www.imegcorp.com

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PROJECT #23003328.02

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE ______
DATE ______

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY	
CHECKED BY	

GENERAL NOTES

S-000
ISSUED FOR BIDDING

TESTING, INSPECTIONS, AND OBSERVATIONS

1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER CHAPTER 17:
   a. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
   b. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
   c. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
   d. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
   a. POST-INSTALLED ANCHORS - INSPECTION
5. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

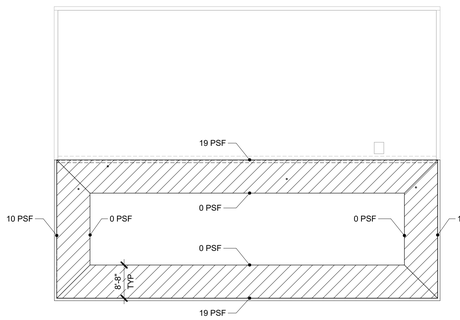
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
CONCRETE CONSTRUCTION				
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 25.3, 26.2.1-26.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		X	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		X	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		X	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		X	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		X	AISC 341: TABLE J9.1	
7. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X	ACI 318: 26.6.4	
c. INSPECTS ALL OTHER WELDS	X			
8. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
9. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 9.a		X	ACI 318: 17.8.2	
10. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
11. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1907.10
12. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9
14. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.2(b)	

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
MASONRY CONSTRUCTION - LEVEL 2				
1. PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS		X		ART. 1.5
b. VERIFICATION OF f'm		X		ART. 1.4 B
2. AS CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6 A & 2.6 C
b. GRADE AND SIZE OF ANCHORAGES		X		ART. 2.4 B & 2.4 H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND ANCHORAGES		X		ART. 3.4 & 3.6 A
d. SAMPLE PANEL CONSTRUCTION		X		ART. 1.6 D
3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		ART. 3.2 D & 3.2 F
b. PLACEMENT OF ANCHORAGES		X	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT		X		ART. 2.6 B & 2.4 G.1.b
4. DURING CONSTRUCTION:				
a. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE		X		ART. 1.5 & 1.6.3
b. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X		ART. 1.5
c. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X		ART. 3.3 B
d. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X		ART. 3.3 F
e. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(e), 6.2.1 & 6.3.1	
f. WELDING OF REINFORCEMENT	X		SEC. 6.1.6.1.2	
g. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		X		ART. 1.8 C & 1.8 D
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
OPEN-WEB JOISTS AND GIRDERS				
1. INSTALLATION OF OPEN-WEB JOISTS AND GIRDERS:				
a. END CONNECTIONS - WELDING AND BOLTED		X	SJI SPEC. LISTED IN SECTION 2207.1	
b. BRIDGING - HORIZONTAL AND DIAGONAL				
c. STANDARD BRIDGING		X	SJI SPEC. LISTED IN SECTION 2207.1	
d. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X		

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
STRUCTURAL DECKING				
1. DECK PLACEMENT AND ATTACHMENT	X	X		

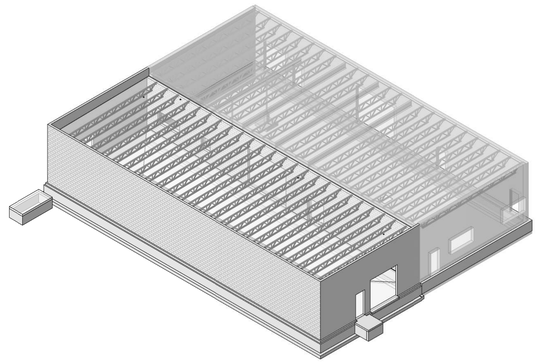
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
SOILS				
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		



NOTE:

1. SNOW DRIFT IS IN ADDITION TO DESIGN SNOW LOAD ON S-000.

1 SNOW DRIFT PLAN
1/16" = 1'-0"



3D VIEW – FOR REFERENCE ONLY

STRUCTURAL SYMBOL LIST

GENERAL SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
(+16'-3")	TOP OF STRUCTURAL FRAMING ABOVE ELEVATION (+0'-0")	N/A
(-2'-0")	TOP OF STRUCTURAL FOUNDATION BELOW ELEVATION (+0'-0")	N/A

STEEL SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
	STEEL DECK (DIRECTION)	N/A

VIEW KEY

NAME 10'-0" — LEVEL NAME / HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

NORTH 1 VIEW NAME 1/8" = 1'-0"

- INDICATES DIRECTION OF TRUE NORTH
- PLAN OR DETAIL NUMBER
- PLAN OR DETAIL NAME
- PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

1 / S300 — DETAIL REFERRED TO BY SECTION CUT; SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

- NEW WORK (DARK SOLID LINE/LINE WEIGHT WILL VARY)
- NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
- EXISTING TO BE REMOVED (DARK DASH LINE)
- EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
- NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
- GRID OR CENTERLINE

MATERIAL LEGEND:

- CONCRETE - CAST-IN-PLACE
- CONCRETE - EXISTING
- EARTH
- GRAVEL OR GRANULAR FILL
- GROUT OR DRYPACK OR SAND
- MASONRY
- METAL / COLD-FORM STUD
- PRECAST CONCRETE
- STEEL

W/XX" BPX — COLUMN DESIGNATION; BASE PLATE MARK

FOOTING MARK (TOP ELEVATION)

SF# (+X'-X") / P# (+X'-X") — PIER MARK (TOP ELEVATION)

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS
@	AT
°	DEGREE
ø	DIAMETER
(E)	EXISTING
A.B.	ANCHOR BOLT
ARCH	ARCHITECT, -URE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BM	BEAM
B.N.	BOUNDARY NAILING
BOTT	BOTTOM
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CGS	CENTER OF GRAVITY OF THE TENDON
CJP	COMPLETE JOINT PENETRATION WELD
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATION
DIA	DIAMETER
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EFF	EFFECTIVE
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
f'c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
F.N.	FIELD NAILING
FT	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAGE OR GAUGE
GALV	GALVANIZED
GLB	GLULAM BEAM
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
JT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LT WT	LIGHTWEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MANUF	MANUFACTURER
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PCF	POUNDS PER CUBIC FOOT
P.H.	PENTHOUSE
PJP	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSION, -ED, -ING
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SFRS	SEISMIC FORCE-RESISTING SYSTEM
SIM	SIMILAR
SL	SNOW LOAD
S.M.S.	SHEET METAL SCREW
SP	SPACE(S)
SPECS	SPECIFICATION(S)
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.	TOP OF
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
tf	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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GENERAL NOTES

IMEG
623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.786.5967
www.imegcorp.com

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PROJECT #23003328.02

S-001
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CMU WALL REINFORCING SCHEDULE

MARK (MW#)	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5 @ 32" OC	-

NOTES:

1. TYP HORIZ REINF PER SPECIFICATIONS AND IS INTENDED TO BE A 'DUROWALL - TRUSS TYPE' OR EQUIVALENT.
2. REINFORCED CORES ARE ALWAYS GROUTED.
3. SEE S-400 FOR TYP CMU DETAILING.

FOUNDATION WALL REINFORCING SCHEDULE

WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE	
FROST WALLS:					
0" TO 10"	#5 @ 12" OC	-	#5 @ 12" OC	-	SEE NOTE 1
1'-0" TO 1'-4"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 18" OC	#5 @ 18" OC	-

NOTE:

1. CENTERED IN WALL THICKNESS.

CONTINUOUS FOOTING SCHEDULE

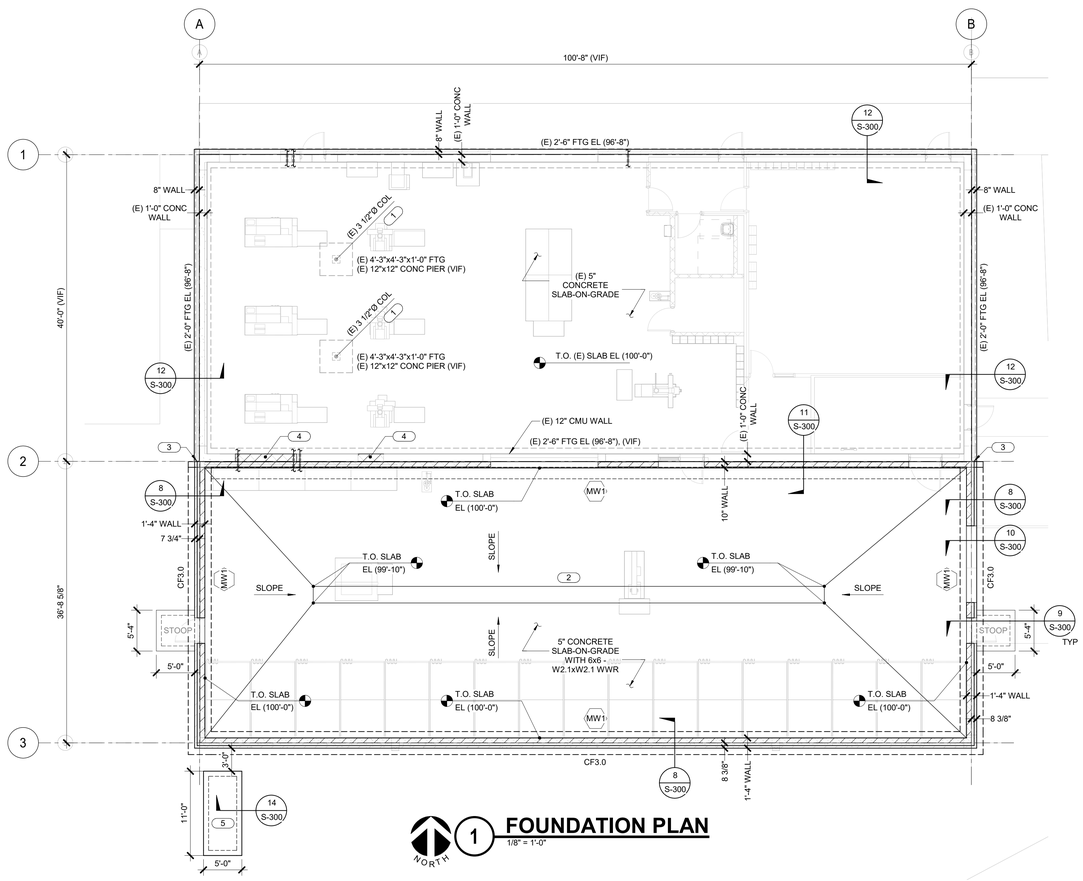
MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF3.0	3'-0"	1'-0"	(3) #5	WALL DOWELS

NOTES:

1. SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
2. TOP OF EXTERIOR FOOTING EL (96'-8"), UON.
3. TOP OF FOUNDATION WALL EL (100'-0"), UON.
4. PROVIDE 2'-6"x2'-6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS. SEE 5/S-300.
5. PROVIDE THICKENED SLAB UNDER ALL NON-STRUCTURAL CMU WALLS - SEE 4/S-300 FOR DETAIL AND ARCHITECTURAL PLANS FOR EXTENT AND LOCATIONS.
6. FOR PIPING AND CONDUIT THROUGH FOUNDATIONS SEE 7/S-300.
7. SEE THIS SHEET FOR CMU WALL SCHEDULE.
8. SEE S-400 FOR TYPICAL MASONRY CONSTRUCTION DETAILS.
9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
10. PATCH EXISTING SLAB WHERE REQUIRED FOR NEW PENETRATIONS THROUGH FOUNDATION WALL.

KEYNOTES:

1. DEMO EXISTING COLUMN AND BASE PLATE. PATCH SLAB TO MATCH THICKNESS OF EXISTING SLAB.
2. TRENCH DRAIN. SEE 3/S-300 FOR DETAIL AND MECHANICAL DRAWINGS FOR LOCATION. SLOPE SLAB TO DRAIN.
3. DOWEL HORIZONTAL FOOTING AND FOUNDATION WALL REINFORCEMENT INTO EXISTING. SEE 11/S-300 FOR MORE INFORMATION.
4. INFILL EXISTING CMU. SEE 11/S-400.
5. EQUIPMENT PAD. COORDINATE WITH MECHANICAL DRAWINGS AND SELECTED EQUIPMENT SUPPLIER.



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

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IMEG
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P: 309.788.0673
www.imegcorp.com

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Davenport, IA 52807
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www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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FOUNDATION PLAN

S-100
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LINTEL SCHEDULE			
MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	8" DEEP BOND BEAM WITH (2) #5	8/S-400	-
L2	16" DEEP BOND BEAM WITH (2) #5	8/S-400	-
L3	W16x31 + 3/8" PL	9/S-400	-
L4	(2) L4x3 1/2x1/4	7/S-400	-
(E) L	EXISTING LINTEL	-	-

NOTE:

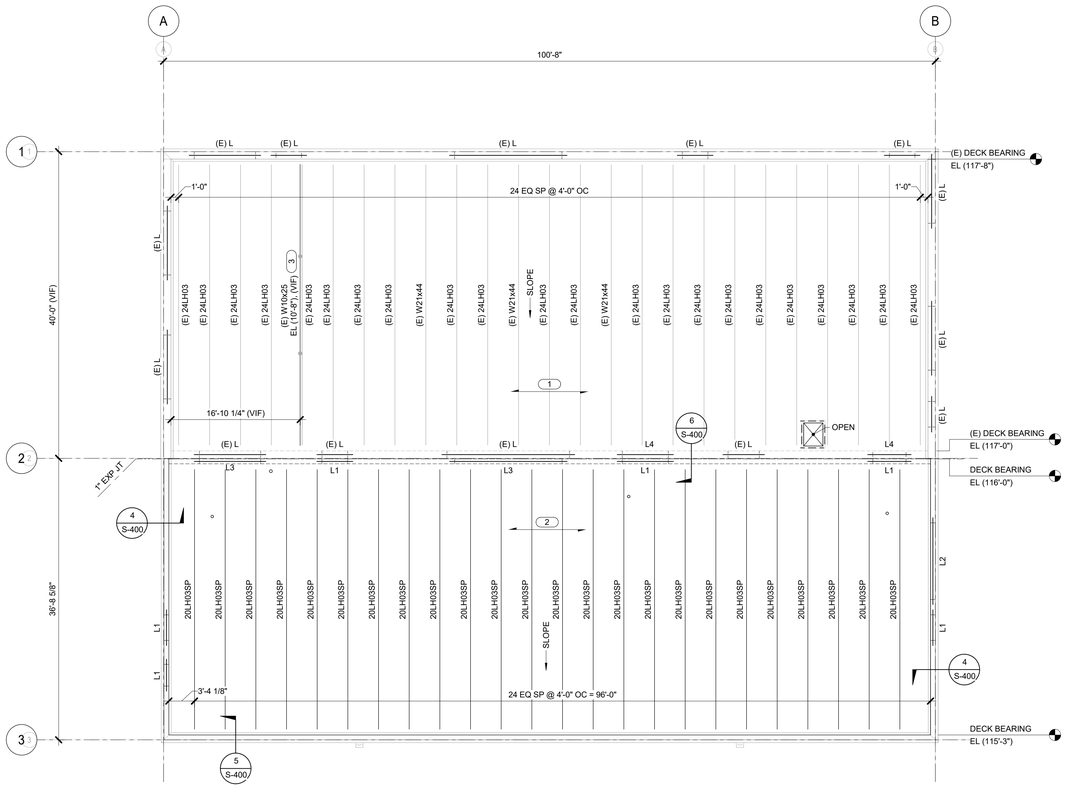
1. BEARING LENGTH EACH END = 8" UON.

NOTES:

1. SEE PLAN FOR DECK BEARING ELEVATIONS.
2. PROVIDE ANGLE FRAMING AROUND ROOF OPENINGS PER 2 AND 3/S-500.
3. SEE ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
4. L# INDICATES LINTEL IN STRUCTURAL MASONRY WALL. SEE THIS SHEET FOR SCHEDULE. SEE S-000 FOR LINTELS IN NON STRUCTURAL WALLS AND FOR LOOSE LINTELS AT VENEER.
5. SEE 4/S-500 FOR MODIFICATION TO EXISTING JOISTS.

KEYNOTES:

1. (E) 1 1/2" METAL DECK.
2. 1 1/2" (20 GA) TYPE B STEEL DECK, 2 SPAN MINIMUM. FASTENING = 36/4 (1) WITH 5/8" PUDDLE WELDS AND #10 SIDELAP SCREWS. SEE PLAN FOR DECK BEARING ELEVATIONS.
3. DEMO EXISTING WF BEAM AND CONCRETE MEZZANINE. INFILL BEAM POCKETS WITH MASONRY.



1 ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

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900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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ROOF FRAMING PLAN

S-101

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IMEG
623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.786.5967
www.imegcorp.com

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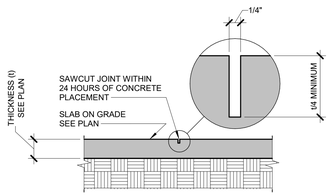
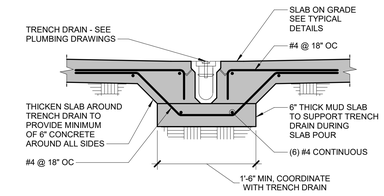
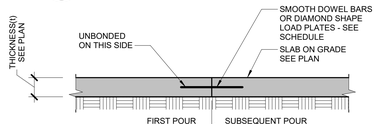


1 TYPICAL CONTROL JOINT
3/4" = 1'-0"

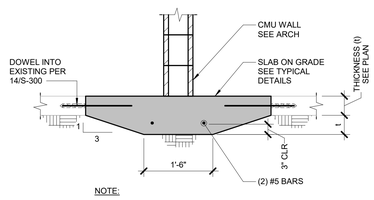


3 TRENCH DRAIN DETAIL
3/4" = 1'-0"



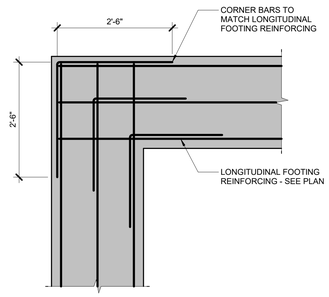
SLAB THICKNESS	SMOOTH DOWEL BAR	DIAMOND SHAPE LOAD PLATES
5"	3/4"Ø x 1'-4" @ 12" OC	1/4"x4 1/2" x 0'-4 1/2" @ 18" OC
6"		
> 6"	1"Ø x 1'-4" @ 12" OC	3/8"x4 1/2" x 0'-4 1/2" @ 18" OC

2 TYPICAL CONSTRUCTION JOINT
3/4" = 1'-0"

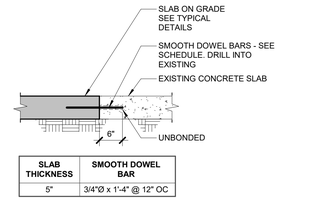


NOTE:
1. TO BE USED AT INTERIOR, NON-STRUCTURAL WALLS BRACED AT TOP OF THE WALL.

4 NON-STRUCTURAL CMU WALL DETAIL
3/4" = 1'-0"

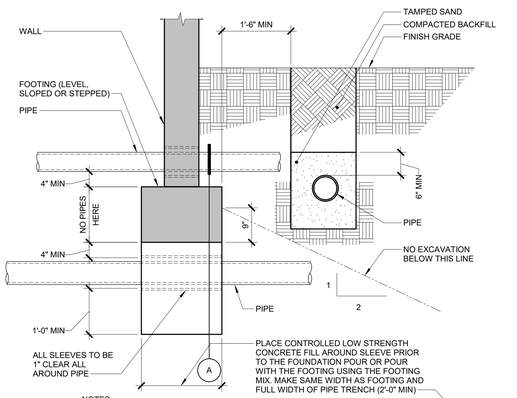


5 FOOTING CORNER BARS
3/4" = 1'-0"



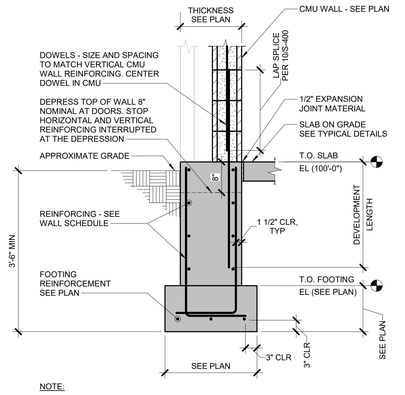
SLAB THICKNESS	SMOOTH DOWEL BAR
5"	3/4"Ø x 1'-4" @ 12" OC

6 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"



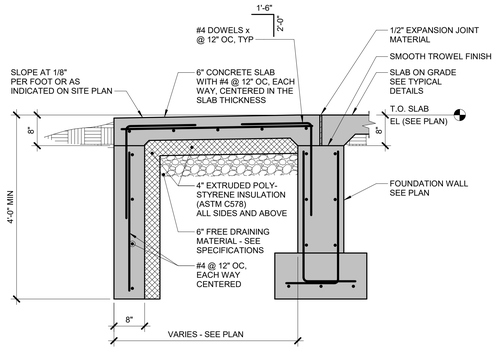
NOTES:
1. PIPE DIAMETER SHALL NOT EXCEED 8".
2. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS, ELEVATIONS, ETC. OF SITE UTILITIES.
3. DETAIL REQUIRED AT ALL UTILITIES HAVING A PLAN WIDTH UP TO 1'-0". FOR WIDTHS GREATER THAN 1'-0", SEE PLAN FOR REQUIRED DETAIL.
4. PIPE IS NOT ALLOWED UNDER SPREAD FOOTINGS.

7 TYPICAL PIPE TRENCH DETAIL
3/4" = 1'-0"



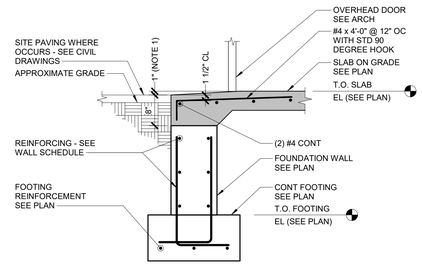
NOTE:
1. FOR HEIGHTS EXCEEDING 4'-0", EACH SIDE OF THE WALL SHALL BE BACKFILLED AT THE SAME TIME.

8 TYPICAL PERIMETER FROST WALL
3/4" = 1'-0"



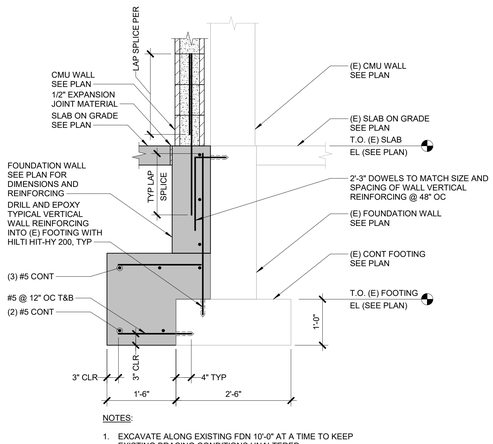
NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR EXACT STOOP LOCATIONS.

9 TYPICAL STOOP DETAIL
3/4" = 1'-0"



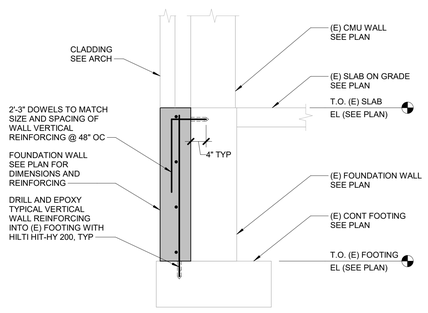
NOTE:
1. SLAB IS TO SLOPE DOWN AWAY FROM OVERHEAD DOOR - COORDINATE WITH CIVIL AND ARCHITECT.

10 SLAB AT OVERHEAD DOOR
3/4" = 1'-0"



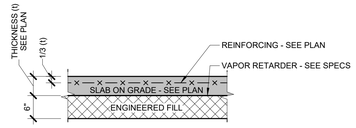
NOTES:
1. EXCAVATE ALONG EXISTING FDN 10'-0" AT A TIME TO KEEP EXISTING BRACING CONDITIONS UNALTERED.

11 FOUNDATION AT EXISTING
3/4" = 1'-0"



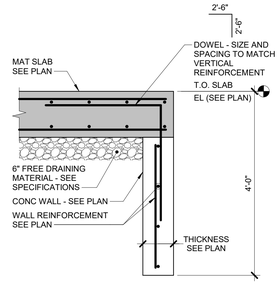
NOTES:
1. EXCAVATE ALONG EXISTING FDN 10'-0" AT A TIME TO KEEP EXISTING BRACING CONDITIONS UNALTERED.

12 BRICK LEDGE AT EXISTING
3/4" = 1'-0"



NOTES:
1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.
2. COMPACT ALL FILL MATERIAL TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557.
3. VAPOR RETARDER TO MEET ASTM E1745, CLASS A AND BE NOT LESS THAN 15 MILS THICK.

13 TYPICAL SLAB SECTION
3/4" = 1'-0"



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

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ARCHITECT
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Moline, IL 61265
P: 309.517.5536
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Davenport, IA 52807
P: 563.726.6310
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Davenport, IA 52807
P: 563.726.6310
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Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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CONCRETE DETAILS

S-300
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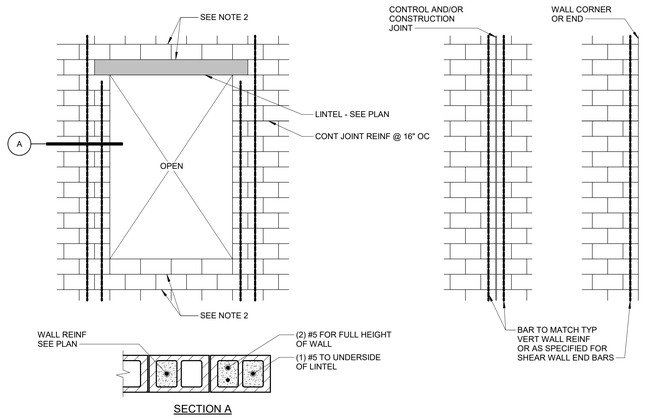
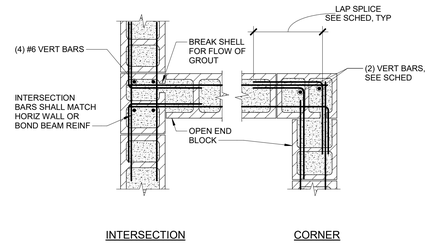


NOTES:

1. SEE ARCH ELEVATIONS FOR CONTROL JOINT LOCATIONS.
2. TWO COURSES OF JOINT REINF ARE REQUIRED ABOVE THE LINTEL AND BELOW THE SILL AND SHALL EXTEND A MIN OF 24 INCHES PAST THE OPENING.

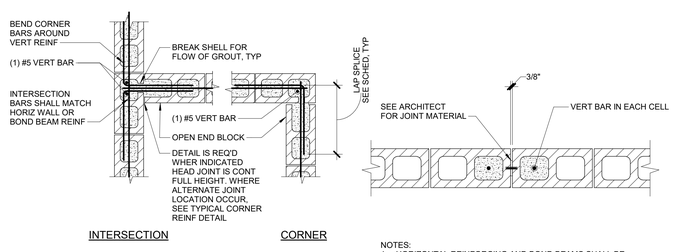
1 TYPICAL CMU WALL OPENING DETAIL
3/4" = 1'-0"



NOTES:

1. TYPICAL VERTICAL REINFORCING AND GROUT NOT SHOWN FOR CLARITY.
2. DETAIL ASSUMES CORNER IS CONSTRUCTED IN RUNNING BOND WITH UNITS INTERLOCKED.

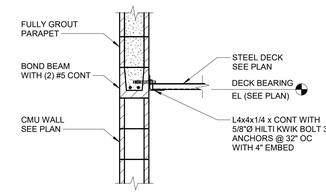
2 CMU WALL INTERSECTION DETAILS
3/4" = 1'-0"



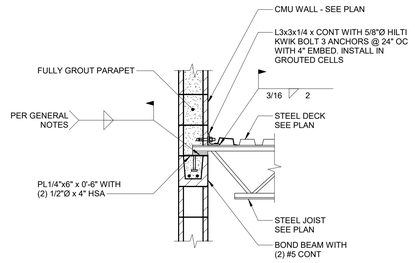
NOTES:

1. HORIZONTAL REINFORCING AND BOND BEAMS SHALL BE DISCONTINUOUS AT WALL JOINT, EXCEPT FOR CHORD REINFORCING.
2. DO NOT LOCATE JOINT OVER OPENING OR WITHIN JAMB.
3. REFERENCE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
4. COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS.

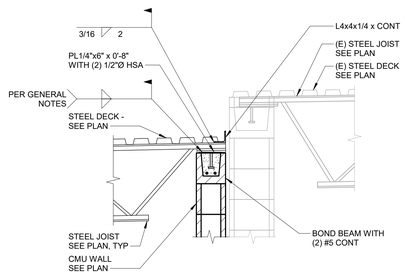
3 WALL CONSTRUCTION JOINT
1" = 1'-0"



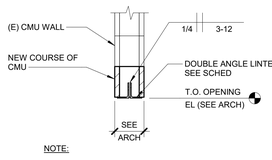
4 ROOF DECK BEARING AT CMU WALL
3/4" = 1'-0"



5 TYPICAL ROOF JOIST BEARING ON EXTERIOR CMU WALL
3/4" = 1'-0"



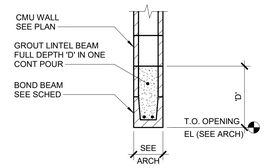
6 TYPICAL ROOF JOIST BEARING ON INTERIOR CMU WALL
3/4" = 1'-0"



NOTE:

1. (E) WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.

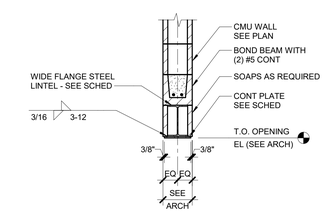
7 DOUBLE ANGLE LINTEL DETAIL AT EXISTING
3/4" = 1'-0"



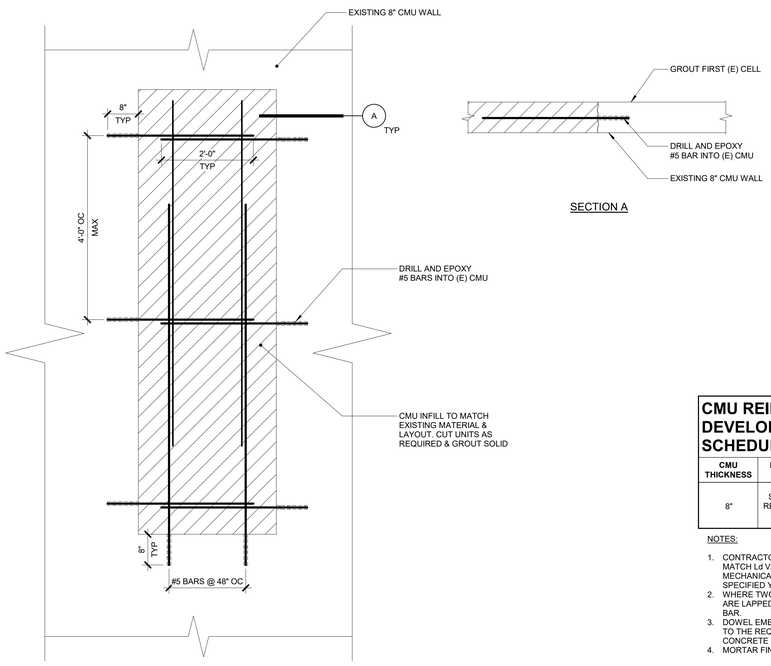
NOTE:

1. SHORE UNTIL GROUT FOR LINTEL HAS REACHED ITS SPECIFIED STRENGTH.
2. SEE S-000 FOR LOOSE LINTEL SIZE AT CLADDING.

8 BOND BEAM LINTEL DETAIL
3/4" = 1'-0"



9 WIDE FLANGE LINTEL DETAIL
3/4" = 1'-0"



10 CMU INFILL ELEVATION
3/4" = 1'-0"

CMU REINFORCING BAR DEVELOPMENT LENGTH (L_d) SCHEDULE

f'm=2500 PSI

CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L_d	REMARKS
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	12"	
		#5	18"	
		#6	34"	
		#7	47"	NOTE 4

NOTES:

1. CONTRACTOR TO PROVIDE LAP SPLICE LENGTHS TO MATCH Ld VALUES PROVIDED IN SCHEDULE OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
2. WHERE TWO DIFFERENT SIZES OF REINFORCING BARS ARE LAPPED, PROVIDE Ld FOR SMALLER REINFORCING BAR.
3. DOWEL EMBEDMENT INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.
4. MORTAR FINS TO BE REMOVED.

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Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
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IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
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Davenport, IA 52807
P: 563.726.6310
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P: 563.285.9341
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CMU DETAILS

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ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.786.5967
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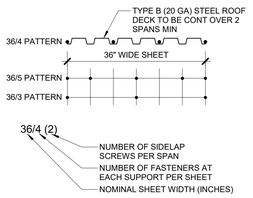
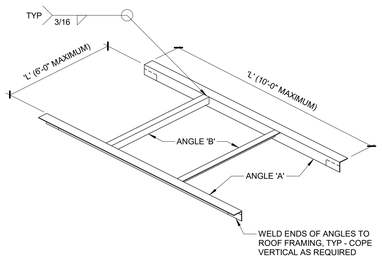
PROJECT #23003328.02



1 TYPICAL STEEL DECK FASTENING DETAIL

3/4" = 1'-0"



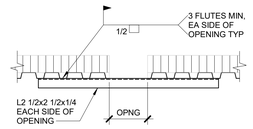
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:

1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

2 ROOF OPENING DETAIL

3/4" = 1'-0"

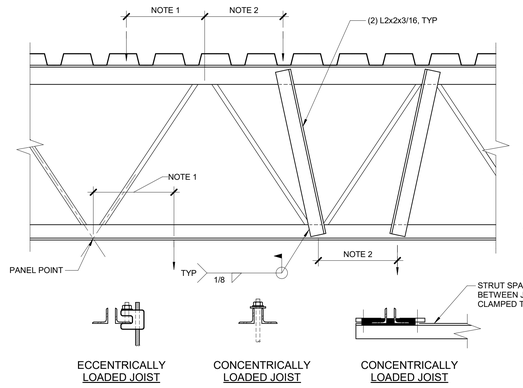


NOTES:

1. PROVIDE THIS DETAIL FOR OPENINGS 4" TO 12" MAXIMUM DIMENSION WHERE NO CURB IS REQUIRED AND NO EQUIPMENT IS SUPPORTED.
2. FOR OPENING LOCATION AND SIZE, SEE PLAN, ARCH AND MECHANICAL OR ELECTRICAL.
3. FOR LARGER OPENINGS THAN INDICATED, WHERE EQUIPMENT IS SUPPORTED, OR WHERE CURB IS REQUIRED, PROVIDE FRAMING PER 2/S-500 UON.
4. ALL OPENINGS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.

3 ROOF OPENING DETAIL

3/4" = 1'-0"



NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

4 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"

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P: 309.788.0673 F: 309.788.5967
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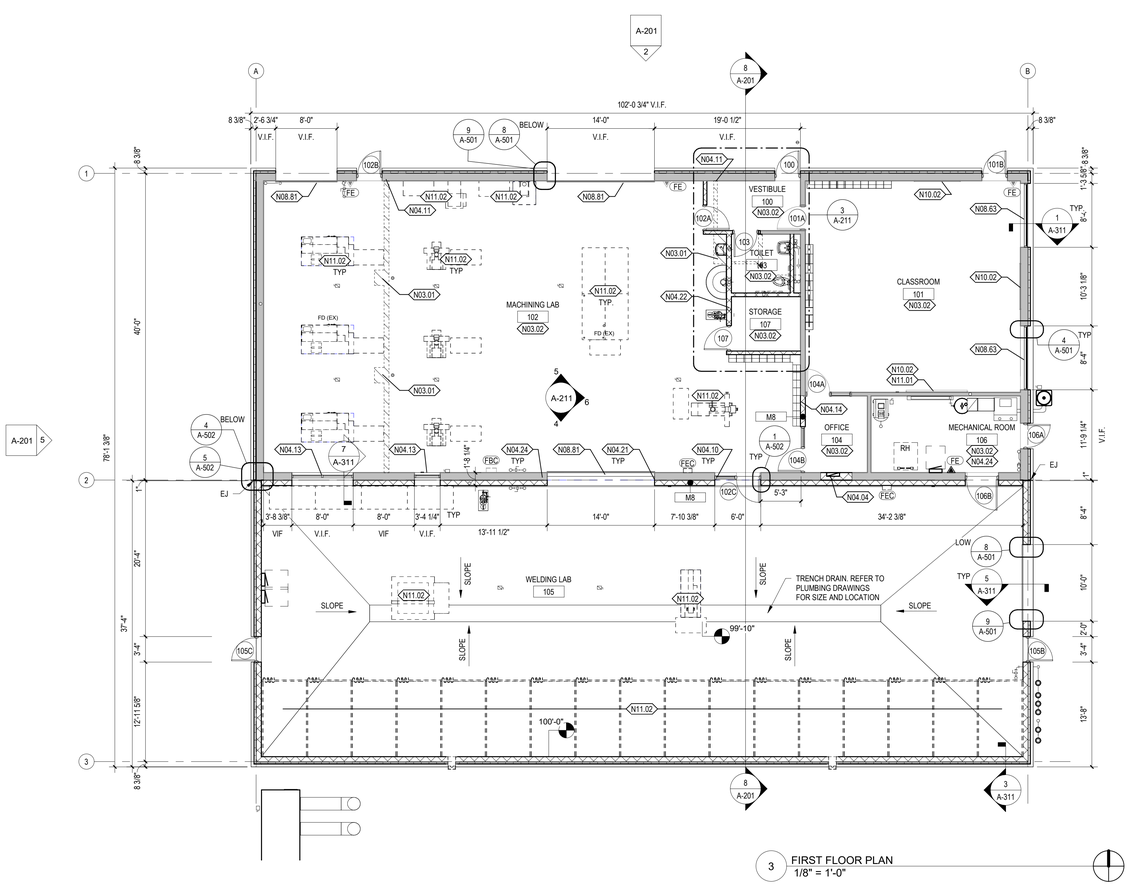

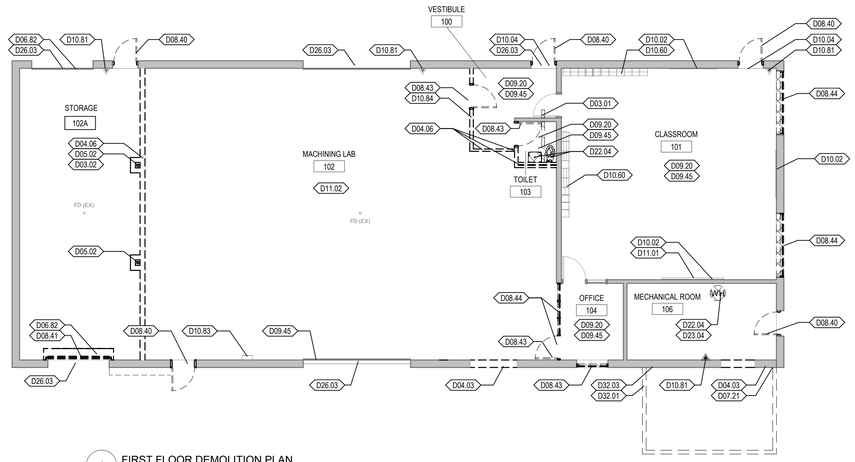

1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0" A-201

FLOOR PLAN LEGEND

1 / A101 SIM — DETAIL SECTION TAG	CG — CORNER GUARD - REFER TO DETAIL
1 / A101 SIM — BUILDING & WALL SECTION TAG	FE — FIRE EXTINGUISHER - WALL MOUNTED
S3FA — WALL TYPE - REFER TO A-611 FOR WALL TYPES	FEC — RECESSED FIRE EXTINGUISHER AND CABINET
101 — DOOR NUMBER - REFER TO A-501 FOR DOOR AND FRAME SCHEDULE	FEC-R — FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
ROOM NAME 101 — ROOM NAME AND NUMBER	FEC — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
A101 / Ref — INTERIOR ELEVATION TAG	FEC-R — SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
A101 / 1 / Ref — EXTERIOR ELEVATION TAG	MB# — MARKER BOARD
0 — COLUMN TAG AND COLUMN CENTERLINE	TB# — TACK BOARD
A101 / 1 / Ref — STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION	FD (EX) — EXISTING FLOOR DRAIN
	AREA NOT IN CONTRACT
	N### — NEW WORK NOTE

ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
N03.01	PATCH CONCRETE FLOOR SLAB FROM DEMOLITION OF CMU WALL AND COLUMNS. PREP FLOOR FOR FLOOR FINISH AS INDICATED ON FINISH PLAN.
N03.02	INFILL CONCRETE SLAB WHERE REMOVED FOR UNDERGROUND WORK. PREP CONCRETE FOR FLOOR FINISH AS INDICATED ON FINISH PLAN. REFER TO PLUMBING AND MECHANICAL DRAWINGS FOR EXTENT OF UNDERGROUND WORK.
N04.04	INFILL MASONRY OPENING WITH CONCRETE BLOCK. TOOTH IN WHOLE UNITS.
N04.10	PATCH AND SAND SMOOTH HOLES IN EXISTING CONCRETE BLOCK AFTER REMOVAL OF DOOR FRAME AND/OR WALL MOUNTED EQUIPMENT/PADDING.
N04.11	REMOVE AND REPLACE DAMAGED CONCRETE BLOCK AFTER PARTITION DEMOLITION.
N04.13	INFILL MASONRY OPENING WITH CONCRETE BLOCK AT NEW WINDOW. TOOTH IN WHOLE UNITS BELOW OPENING AND BULLNOSE UNITS AT JAMBS. REFER TO ELEVATION.
N04.14	INFILL MASONRY OPENING WITH CONCRETE BLOCK AT NEW DOOR SYSTEM. TOOTH IN WHOLE UNITS.
N04.21	MASONRY EXPANSION JOINT. PROVIDE FOAM SEAL EXPANSION JOINT, WITH COLOR MATCH SEALANT. FULL PERIMETER OF OPENING.
N04.22	PROVIDE NEW CONCRETE BLOCK WALLS UP TO ROOF DECK.
N04.24	PATCH AND SAND SMOOTH HOLES IN EXISTING CONCRETE BLOCK AFTER DEMOLITION OF EXISTING PLUMBING, ELECTRICAL, AND MECHANICAL EQUIPMENT.
N08.63	PROVIDE NEW ALUMINUM STOREFRONT IN EXISTING OPENING. VERIFY EXISTING OPENING IN THE FIELD.
N08.81	REFINISH OVERHEAD ROLLING DOORS IN THEIR ENTIRITY. SCRAPE AND PAINT TO MATCH NEW OVERHEAD DOORS. REMOVE AND REPLACE ALL VISION LITES.
N10.02	REINSTALL SALVAGED MARKERBOARD, CHALKBOARD, OR TACKBOARD. VERIFY PLACEMENT WITH OWNER.
N11.01	REINSTALL EXISTING PROJECTOR PER OWNER DIRECTION. COORDINATE LOCATION WITH OWNER.
N11.02	METAL LAB EQUIPMENT FOR REFRENCE. OWNER FURNISHED OWNER INSTALLED. COORDINATE LOCATION WITH OWNER.

DEMOLITION PLAN GENERAL NOTES

1. REFERENCED DEMOLITION NOTES REFER TO THE MINIMUM AMOUNT OF DEMOLITION REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION. TRADE CONTRACTORS SHALL VISIT PROJECT SITE TO BECOME FAMILIAR WITH COMPLETE SCOPE OF REMOVALS/DEMOLITIONS AND FIELD VERIFY THE EXTENT OF DEMOLITION.
2. EXISTING DIMENSIONS AND HATCHED AREAS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. THE ACTUAL AREA OF DEMOLITION SHOULD BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.
3. IN THE EVENT THAT AN EXISTING ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM.
4. ALL UTILITIES SHALL REMAIN IN SERVICE FOR OTHER OCCUPANCIES. ANY SHUTDOWNS OF BUILDING MUST BE APPROVED BY OWNER AND OCCUR AT OFF HOURS AS DEFINED BY OWNER.
5. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL MATERIAL OR EQUIPMENT IDENTIFIED TO BE REMOVED. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
6. REFER TO DRAWINGS FOR LOCATIONS OF ALL ITEMS TO BE REINSTALLED. ALL ITEMS NOT SPECIFICALLY INDICATED FOR REINSTALLATION ON DRAWINGS ARE TO BE TURNED OVER TO THE OWNER. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.
7. ALL REMOVED ITEMS IDENTIFIED FOR REINSTALLATION OR TO BE TURNED OVER TO THE OWNER SHALL BE PROTECTED UNTIL TIME OF REINSTALLATION OR OWNER POSSESSION. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR.
8. THROUGHOUT DEMOLITION AND CONSTRUCTION, PROTECT ITEMS SCHEDULED TO REMAIN AND/OR ALL ADJACENT MATERIALS AND EQUIPMENT, ETC. INDICATED TO REMAIN. COORDINATE REMOVAL AND PROTECTIONS WITH OWNER.
9. DO NOT COMMENCE DEMOLITION UNTIL OWNER HAS REMOVED ALL ARTWORK AND DISPLAYS FROM AREAS OF DEMOLITION.
10. COORDINATE WITH OWNER ACCESS AND LOCATIONS OF TEMPORARY PARTITION. TEMPORARY PARTITION MUST BE DUSTPROOF, AND ACT AS SMOKE AND FIRE BARRIER.
11. AT REMOVAL OF SELECTED DEMOLITION ITEMS WHERE NO NEW CONSTRUCTION IS IDENTIFIED, PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
12. AT ITEMS TO BE REMOVED, ALSO REMOVE ALL ASSOCIATED BRACKETS, SUPPORTS, FASTENERS, ANCHORS, ETC. PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.
13. PATCH ALL CEILINGS, WALLS AND FLOORS WHERE MECHANICAL, ELECTRICAL, TECHNOLOGY, PLUMBING AND FIRE PROTECTION COMPONENTS ARE TO BE REMOVED IN AN EXISTING CEILINGS, WALLS OR FLOORS TO REMAIN.
14. ALL WALL DEMOLITION SHALL HAVE CLEAN, VERTICAL, SMOOTH CUTS. PATCH, REPLACE AND/OR FILL VOIDS IN WALLS TO REMAIN TO PROVIDE A SMOOTH SURFACE/EDGE FOR THE APPLICATION OF NEW FINISH MATERIAL.
15. WHEN REMOVING EXISTING WALL TILE, FLOOR TILE, RUBBER BASE OR CEILING TILE, REMOVE FINISHES TO THE NEAREST JOINT WHICH ABUTS TILE NOT AFFECTED BY THE CONSTRUCTION. PROTECT THE SURFACES AND EDGES OF EXISTING FINISHES TO REMAIN.
16. AT AREAS WHERE DEMOLITION OF THE FLOORING EXPOSES THE CONCRETE SUBSTRATE: COMPLETELY REMOVE THE MASTIC. SHOT BLAST THE EXISTING CONCRETE TO REMAIN, AND FILL ALL CRACKS AND SPALLED AREAS IN PREPARATION FOR NEW FLOORING MATERIAL. REMOVAL OF FLOORING MATERIAL INCLUDES REMOVAL OF ADJACENT WALL BASE MATERIAL.
17. AT IDENTIFIED AREAS OF SPALLED, UNEVEN AND/OR SEPARATED CONCRETE SLABS; REMOVE ALL LOOSE MATERIAL; GRIND CONCRETE TO ACHIEVE A LEVEL SURFACE AND FILL CRACKS AND SPALLED AREAS IN PREPARATION FOR INSTALLATION OF FINISHED FLOORING.
18. CONTRACTOR SHALL REMOVE EXISTING PLUMBING, MECHANICAL, ELECTRICAL OR OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE NEW WORK BUT NOT REQUIRED TO REMAIN.
19. WHEN REMOVING INTERIOR OR EXTERIOR WALL ASSEMBLIES, CONTRACTOR SHALL ALSO REMOVE ALL ASSOCIATED POWER AND DATA RECEPTACLES, SWITCHES, ETC. REROUTE CONCEALED MEPFP WHERE REQUIRED TO MAINTAIN FUNCTIONING SYSTEMS; REMOVE ABANDONED MEPFP SYSTEMS TO SOURCE AND CAP APPROPRIATELY. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, LOW VOLTAGE, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
20. CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS.
21. GENERAL CONTRACTOR SHALL RECYCLE DEMOLITION CONSTRUCTION DEBRIS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND SUSTAINABLE BEST PRACTICES.
22. IN THE EVENT HAZARDOUS MATERIALS ARE UNCOVERED GENERAL CONTRACTOR IS TO NOTIFY THE OWNER AND THE APPROPRIATE AUTHORITIES. THE ARCHITECT IS NOT RESPONSIBLE FOR REMOVAL / ABATEMENT OF HAZARDOUS MATERIALS. CONTRACTOR TO PROVIDE REMOVAL / ABATEMENT AT LOCATIONS NECESSARY.
23. REFER TO THE CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND TECHNOLOGY DRAWINGS FOR THE DEMOLITION WORK SPECIFIC TO THOSE DISCIPLINES.
24. STRUCTURAL ITEMS SHOWN AS 'TO BE REMOVED' ARE FOR REFFERENCE ONLY. VERIFY APPROPRIATE SHORING OR REINFORCEMENT CONDITION WITH STRUCTURAL DRAWINGS.

DEMOLITION LEGEND

- D## — DEMOLITION TAG
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE DEMOLISHED
- LIMITS OF DEMOLITION WORK - SEE MEPFP DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS
- EXISTING DOORS TO REMAIN
- EXISTING DOORS TO BE DEMOLISHED

DEMOLITION NOTES

NOTE	DESCRIPTION
03.01	REMOVE EXISTING CONCRETE FLOOR SLAB AS REQUIRED TO ACCOMMODATE UNDERGROUND WORK. REFER TO PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
03.02	REMOVE EXISTING CONCRETE PLANKS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
04.03	REMOVE EXISTING CONCRETE BLOCK AS REQUIRED TO ACCOMIDATE NEW OPENING. TOOTH IN WHOLE UNITS AT NEW OPENING JAMB. REFER TO STRUCTURAL FOR LINTEL REQUIREMENTS.
04.06	REMOVE EXISTING CONCRETE BLOCK WALL IN ITS ENTIRITY. PREPARE ADJACENT WALLS TO REMAIN FOR NEW WORK.
05.02	REMOVE EXISTING COLUMNS, BASE PLATES AND ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
06.82	REMOVE EXISTING WOOD TRIM AROUND PERIMETER OF OPENING.
07.21	REMOVE EXISTING GUTTER AND DOWNSPOUT.
08.40	REMOVE EXISTING WOOD OR STEEL DOOR AND HARDWARE. PREPARE OPENING TO ACCOMMODATE NEW WORK.
08.41	REMOVE EXISTING OVERHEAD DOOR AND HARDWARE. PREPARE OPENING TO ACCOMMODATE NEW WORK.
08.43	REMOVE EXISTING FRAME AND DOOR OR WINDOW ASSEMBLY SALVAGE HARDWARE AND RETURN TO OWNER.
08.44	REMOVE EXISTING STOREFRONT OR CURTAINWALL FRAME AND GLAZING SYSTEM
09.20	REMOVE EXISTING SUSPENDED ACOUSTICAL TILE CEILING SYSTEM, LIGHTS, DIFFUSERS, GRILLES, AND ALL CEILING MOUNTED DEVICES. REFER TO MECHICAL AND ELECTRICAL DRAWINGS
09.45	REMOVE EXISTING FLOORING AND RESILIENT BASE AS REQUIRED TO ACCOMMODATE NEW WORK
10.02	REMOVE EXISTING MARKERBOARD, CHALKBOARD, OR TACKBOARD. SALVAGE FOR REINSTALLATION.
10.04	REMOVE EXISTING EXIT SIGNAGE. TURN OVER TO OWNER
10.60	REMOVE EXISTING LOCKERS. SALVAGE AND RETURN TO OWNER.
10.81	REMOVE EXISTING FIRE EXTINGUISHER AND WALL MOUNT BRACKET AND SALVAGE FOR REINSTALLATION.
10.83	REMOVE EXISTING FIRE BLANKET CABINET AND FIRE BLANKET. SALVAGE FOR REINSTALLATION.
10.84	REMOVE EXISTING PORTABLE EYE WASH STATION. RETURN TO OWNER.
11.01	REMOVE EXISTING PROJECTOR. SALVAGE FOR REINSTALLATION
11.02	REMOVE EXISTING LAB EQUIPMENT PER OWNER DIRECTION. RETURN TO OWNER FOR REINSTALLATION.
22.04	REMOVE EXISTING PLUMBING FIXTURES. REFER TO PLUMBING DRAWINGS
23.04	REMOVE EXISTING MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
26.03	REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
32.01	REMOVE EXISTING FENCE AND ASSOCIATED FOUNDATIONS. REFER TO CIVIL DRAWINGS.
32.03	REMOVE EXISTING EQUIPMENT AND FIXTURES ON EXTERIOR WALL. REFER TO PLUMBING, ELECTRICAL, AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

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NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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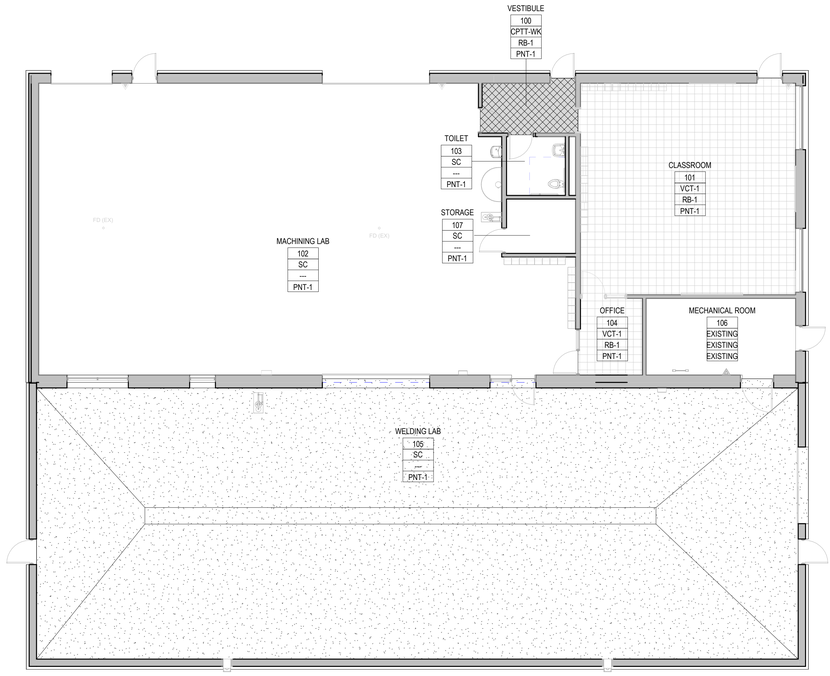
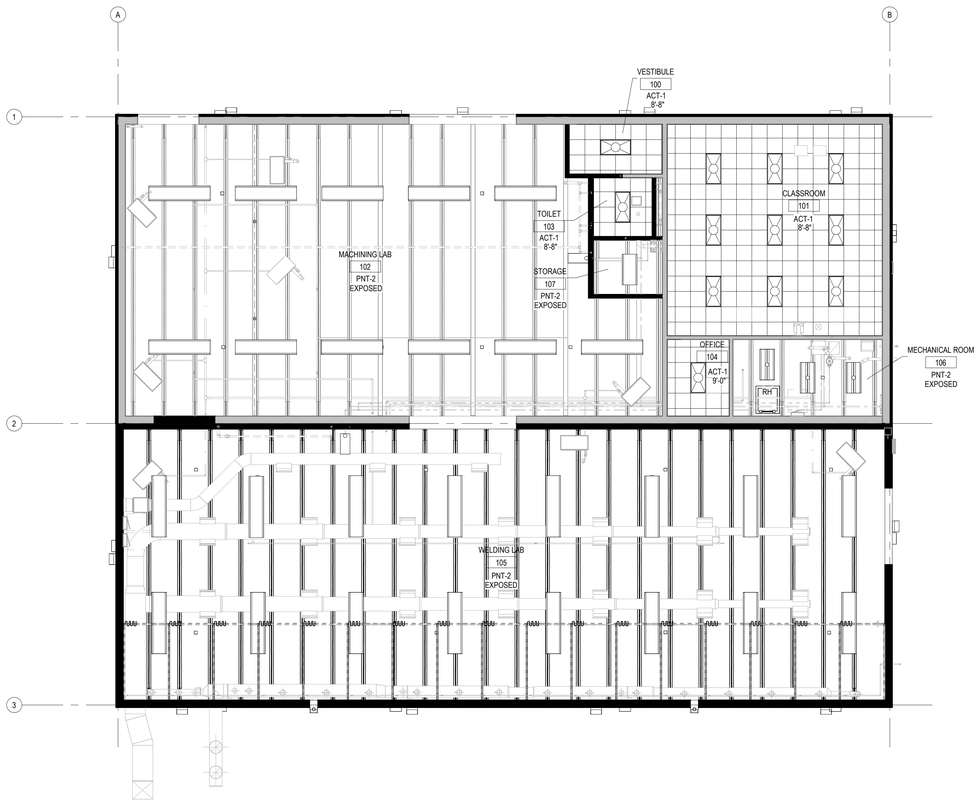
FIRST FLOOR DEMOLITION & FLOOR PLANS

A-101
ISSUED FOR BIDDING



2 FIRST FLOOR FINISH PLAN
1/8" = 1'-0" A-201



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0" A-201

REFLECTED CEILING PLAN LEGEND

- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
- 2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
- RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
- RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
- CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
- RECESSED BUSWAY SYSTEM - REFER TO ELECTRICAL DRAWINGS

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
   A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
   B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
   C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK.
2. AT ALL AREAS OF NEW FLOORING IN EXISTING BUILDING:
   A. EXISTING FLOORING AS INDICATED ON DRAWINGS MAY BE ASBESTOS CONTAINING AND SHALL BE REMOVED UNDER SEPARATE CONTRACT.
   B. SHOT BLAST EXISTING CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE RESULTING FROM DEMOLITION PRIOR TO BEGINNING ANY WORK.
   D. PROVIDE CEMENTITIOUS SELF-LEVELING FLOORING UNDERLAYMENT. PROVIDE TWO COATS WITH A COMBINED AVERAGE THICKNESS OF ¼-INCH.
   E. UNDERCUT EXISTING WOOD DOORS LOCATED ON OR ADJACENT TO AREAS OF NEW FLOORING AS REQUIRED TO ENSURE PROPER OPERATION OF THE DOOR(S).
   F. EXISTING THRESHOLDS TO REMAIN SHALL BE REMOVED AND REINSTALLED SO NEW FLOORING CAN BE INSTALLED UNDER THE EDGE OF THRESHOLDS.

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
   B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
   B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
   C. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.).
6. AT STEEL DOORS AND STEEL FRAMES:
   A. INTERIORS TO BE PAINTED PNT-1 WITH SEMI-GLOSS FINISH (U.N.O.).
   B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH (U.N.O.).

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED.
4. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS; STEEL, DECKING AND EXPOSED STRUCTURE AND DUCKWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS.

GENERAL FINISH NOTES

1. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
3. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
4. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
5. IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
6. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
7. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-X (IPS-X) U.N.O. IN FINISH DRAWINGS.
8. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
9. ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
10. 4"H STRAIGHT RUBBER BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
11. INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
12. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).
13. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
14. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
15. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
16. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
17. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
18. PRIOR TO THE INSTALLATION OF NEW ADHESIVES OVER CONCRETE SUBSTRATES PRIOR TO THE INSTALLATION OF FLOOR COVERING SYSTEMS. APPLY A LIGHT-COLORED HIGH STRENGTH ACRYLIC POLYMER COMPOUND (AQUEOUS FLOOR SEALER) TO ISOLATE AND CUT BACK OLD ADHESIVE FLOOR RESIDUES. ACRYLIC POLYMER COMPOUND TO BE SOLVENT FREE AND TO CONTAIN "ZERO" CALCULATED VOC'S. BASIS OF DESIGN XL BRANDS "TRISEAL". FOLLOW MANUFACTURERS RECOMMENDATION FOR INTENDED APPLICATION.
19. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
20. WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH, COLOR, TEXTURE AND SHEEN.
21. IN ALL EXISTING AREAS SCHEDULED TO BE RENOVATED, REPLACE ALL EXISTING ELECTRICAL WALL COVER PLATES AND DEVICES. ALL NEW ELECTRICAL COVER PLATES AND DEVICES TO BE STAINLESS STEEL.
22. ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED. THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED.
23. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.

SYMBOL LEGEND

⟷ MATERIAL DIRECTION

FINISH LEGEND

CPTT-X CARPET TILE WALK OFF	MANUF: MOHAWK STYLE: STEOP UP II GT311 COLOR: 955 COLBALT
MT-X METAL TRANSITION	MANUF: SCHULTER STYLE: REFER TO FLOORING TRANSITION DETAILS COLOR: BRUSHED ALUMINUM
RB-X RUBBER BASE	MANUF: TARKETT STYLE: COVED COLOR: 38 PETWER CG SIZE: 4"
VCT-X VINYL COMPOSITION TILE	MANUF: TARKETT STYLE: VCT II COLOR: 480 PURE WHITE
SC SEALED CONCRETE	REFER TO PROJECT SPECIFICATIONS FOR DETAILS. PROVIDE SAW CUTS EVERY 10' IN CONCRETE FLOORING. COORDINATE JOINT DEPTHS WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE A SAW CUT PLAN FOR ARCHITECT'S REVIEW.

PAINT LEGEND & SCHEDULE

PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: SW 7063 NEBULOUS WHITE SHEEN: REFER TO LOCATION
PNT-2	EXPOSED CEILING PAINT	MANUF: SHERWIN WILLIAMS COLOR: SW 6258 TRICORN BLACK SHEEN: REFER TO LOCATION
PNT-3	DOORS AND FRAMES	MANUF: SHERWIN WILLIAMS COLOR: SW 7067 CITYSCAPE SHEEN: REFER TO LOCATION

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200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
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MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE

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REFLECTED CEILING & FINISH PLANS

AF100
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ROOF DEMOLITION NOTES

ROOF AREA: 1
SLOPED METAL DECK

NOTE:
EXISTING ROOF DECK IS TO REMAIN IN PLACE. THE FOLLOWING ROOF REMOVAL NOTES ARE PRESUMED TO BE ACCURATE AND ARE PROVIDED FOR INFORMATION PURPOSES ONLY. THE ROOFING CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING ROOF SYSTEM CONSTRUCTIONS AND QUANTITIES.

REMOVE: (U.N.O)
1. REMOVE EXISTING SPM ROOFING SYSTEM.
2. REMOVE EXISTING RIGID INSULATION AND COVERBOARD.
3. EXISTING VAPOR RETARDER TO REMAIN.
4. REMOVE METAL ROOF EDGE FLASHING, COPINGS, ETC. IN PREPERATION OF NEW WORK.
5. REMOVE GUTTER AND DOWNSPOUT
6. PROTECT GAS AND ELECTRICAL PIPING, VENTPIPES, AND ROOF CURBS.

ROOF CONSTRUCTION NOTES

ROOF AREA: 1 (3,850 SF)
EXISTING SLOPED METAL DECK

1. INSTALL VAPOR RETARDER OVER EXISTING VAPOR RETARDER AND DECK. WRAP OVER PARAPET.
2. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION, STAGGER JOINTS, SET IN INSULATION ADHESIVE.
3. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
4. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
5. INSTALL WALKWAY PADS.
6. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS AND COUNTERFLASHINGS SCUPPERS AND DOWNSPOUTS.

ROOF AREA: 2 (3,550 SF)
NEW SLOPED METAL DECK

1. INSTALL SUBSTRATE BOARD MECHANICALLY FASTENED
2. INSTALL VAPOR RETARDER. WRAP OVER PARAPET.
3. INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION, STAGGER JOINTS, SET IN INSULATION ADHESIVE.
4. INSTALL COVER BOARD, SET IN INSULATION ADHESIVE.
5. INSTALL FULLY-ADHERED SINGLE-PLY MEMBRANE ROOFING.
6. INSTALL WALKWAY PADS.
7. INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS AND COUNTERFLASHINGS SCUPPERS AND DOWNSPOUTS.

ROOFING NOTES

# NOTE	DESCRIPTION
1	EXISTING PENETRATION TO BE INFILLED. REFER TO MECHANICAL AND PLUMBING DRAWINGS. REFER TO TYPICAL ROOFING DETAILS FOR INFILL REQUIREMENTS.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
12. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
13. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.

ROOF PLAN FLASHING NOTES

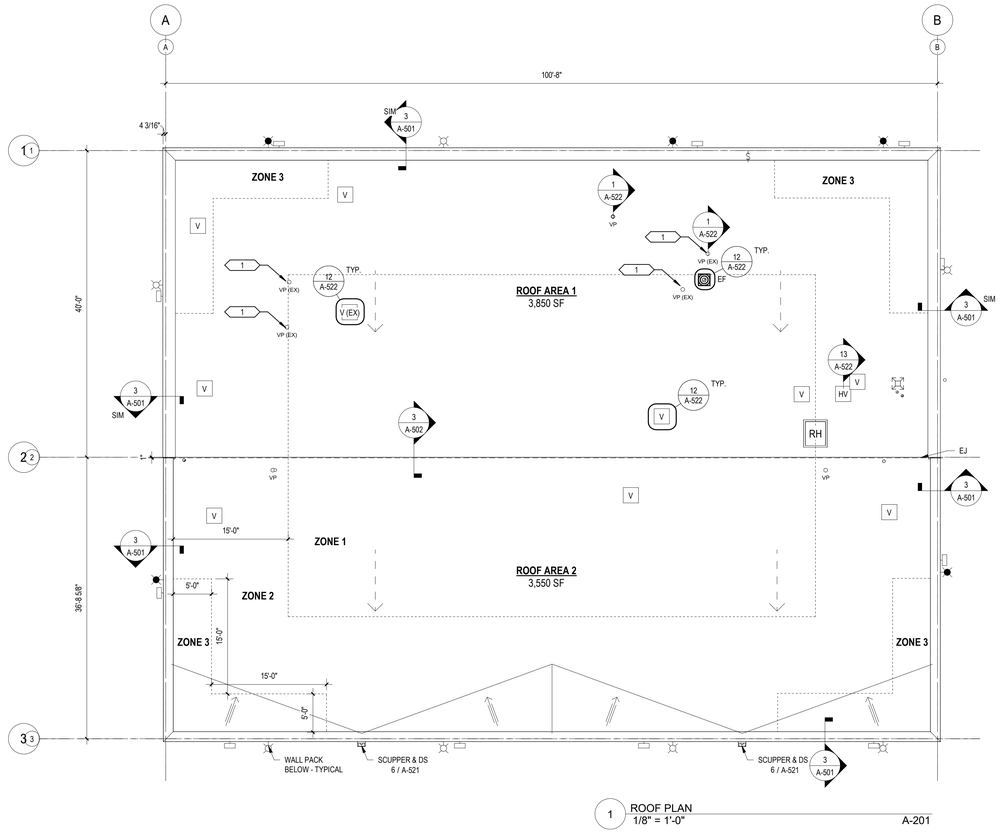
1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 (***PAINT***) SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.

ROOF PLAN UPLIFT ZONES

ZONE 1	37.1 POUNDS PER SQUARE FOOT
ZONE 2	48.8 POUNDS PER SQUARE FOOT
ZONE 3	66.5 POUNDS PER SQUARE FOOT

ROOF PLAN LEGEND

- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF 1/2" PER FOOT TAPERED INSULATION
- AREA OF SLOPED ROOF DECK
- ROOF CURB, 14" ABOVE FINISHED ROOF SURFACE, TYP. PROVIDE CRICKET ON HIGH SIDE OF CURB
- NRL — NEW ROOF LADDER
- RD — ROOF DRAIN - DETAIL :
- ORD — OVERFLOW ROOF DRAIN - DETAIL :
- NEW ROOF HATCH GUARD RAIL
- NEW ROOF HATCH
- EXISTINGEXHAUST / INTAKE FAN
- EF (EX)
- MU — MECHANICAL UNIT
- VP — VENT PIPE ROOF PENETRATION
- EP — ELECTRIC PIPE ROOF PENETRATION
- V — VENT CURB
- HV — HOT B-VENT STACK
- SD — SCUPPER
- NOT IN SCOPE OF WORK
- NEW EPDM - 60MIL
- WALKWAY PAD
- EXISTING CONSTRUCTION
- ELECTRICAL OR GAS PIPING PROVIDE PIPE SUPPORTS
- PIPE SUPPORT



1 ROOF PLAN
1/8" = 1'-0"
A-201

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1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

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ROOF PLAN

AR101

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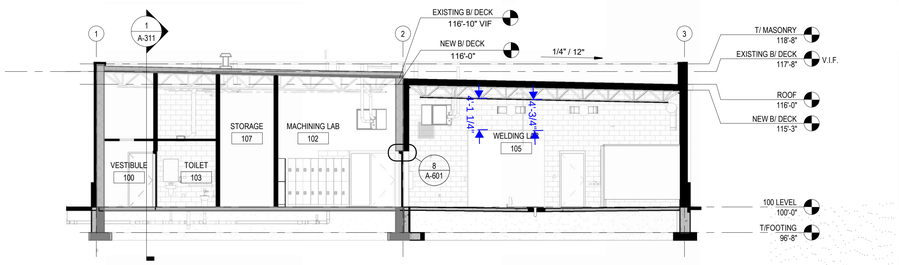
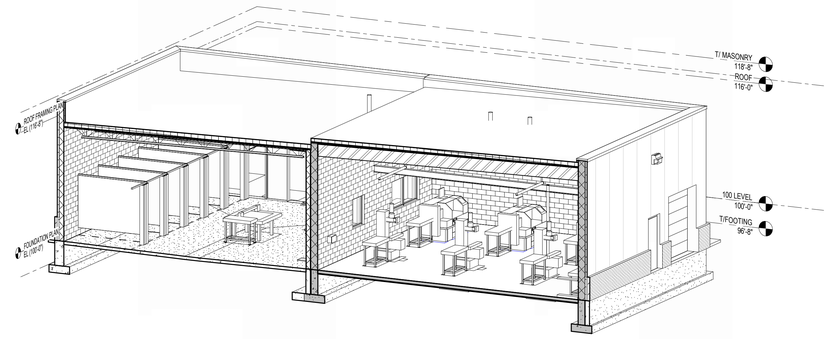
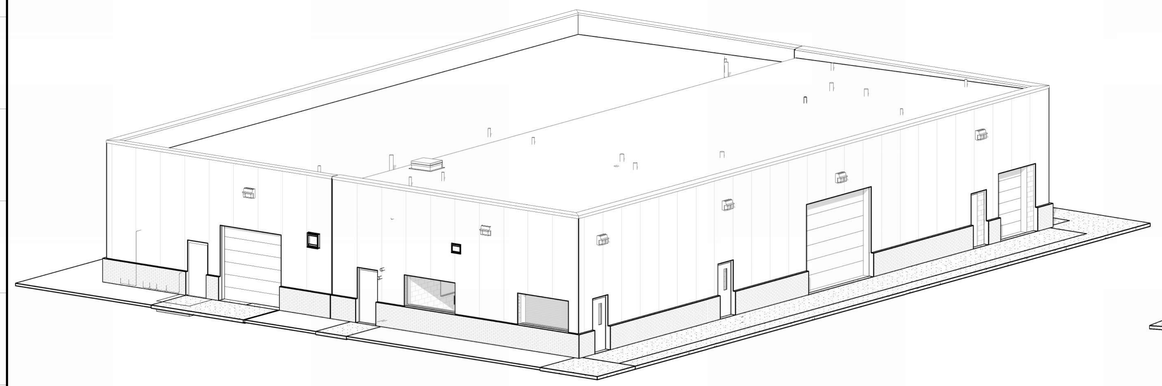


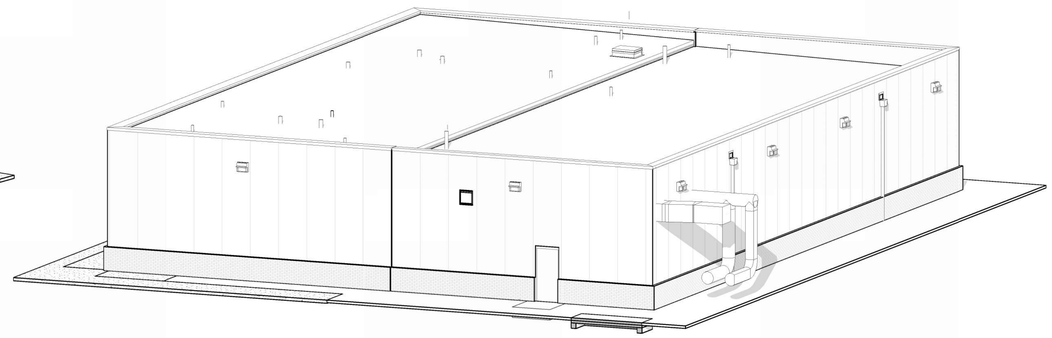
8 NORTH SOUTH BUILDING SECTION
1/8" = 1'-0"
A-101



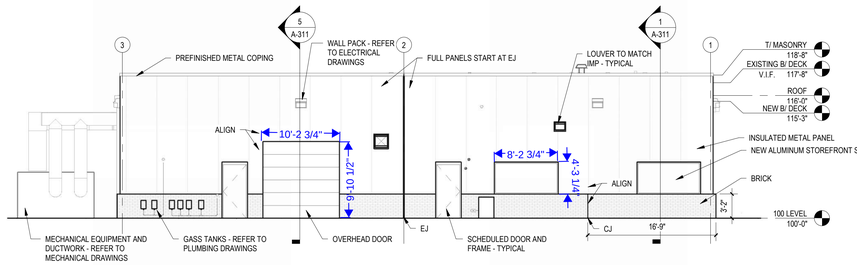
4 BUILDING SECTION AXON



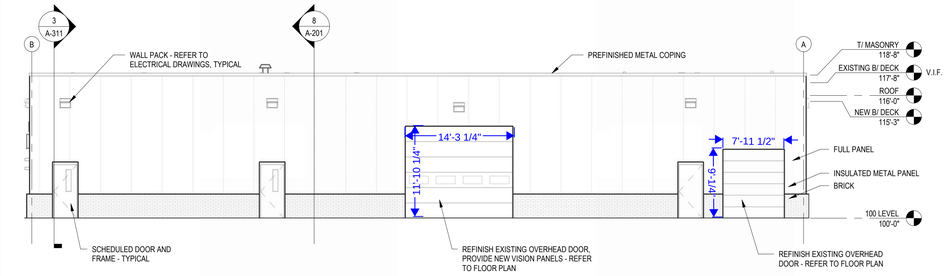
7 NORTH EAST AXON



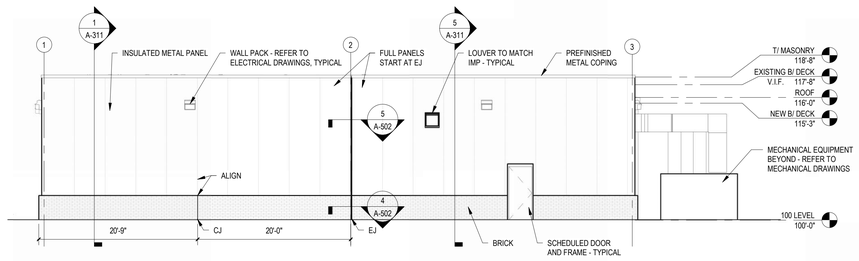
3 SOUTH WEST AXON



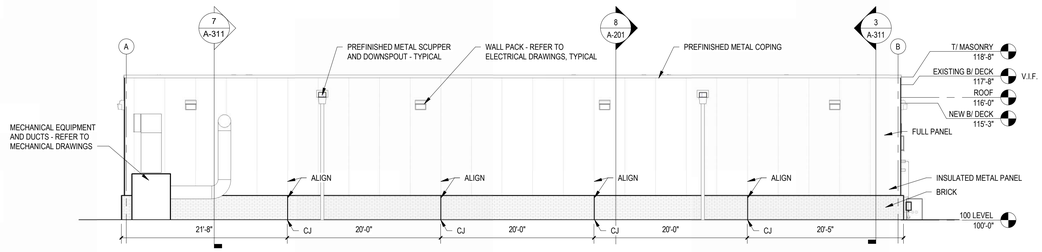
6 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"
A-101



2 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"
A-101



5 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"
A-101



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

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EXTERIOR BUILDING ELEVATIONS AND BUILDING SECTIONS

A-201
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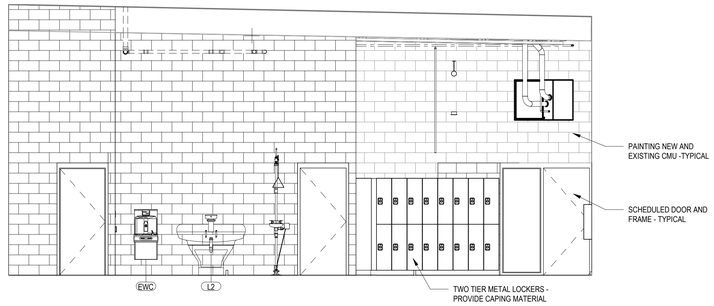
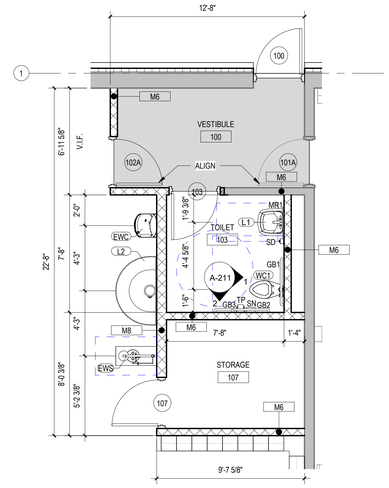
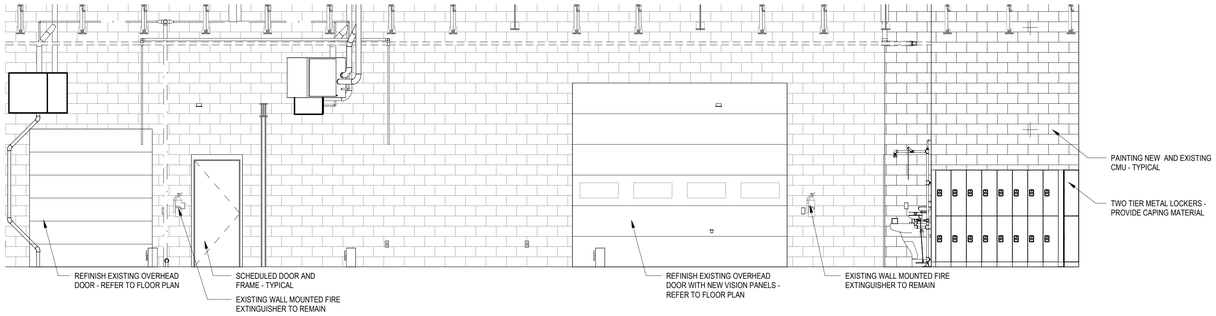


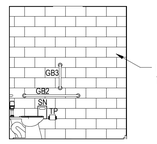
6 INTERIOR ELEVATION - MACHINING LAB EAST
1/4" = 1'-0" A-101



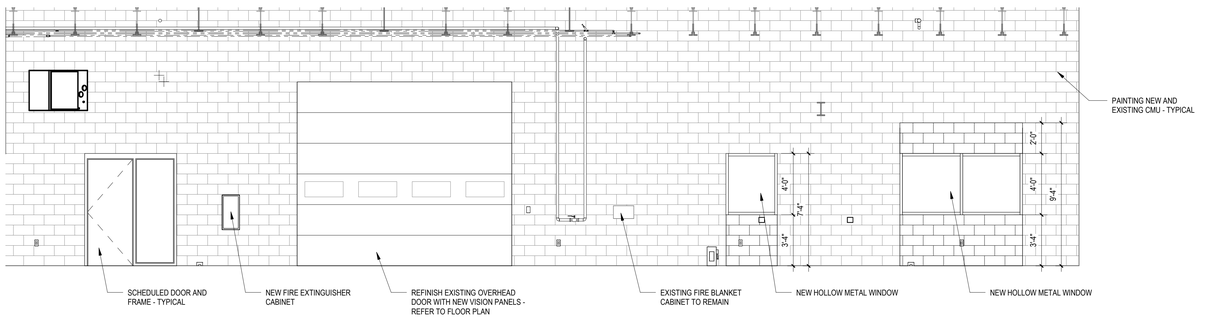
3 ENLARGED PLAN - TOILET ROOM
1/4" = 1'-0" A-101



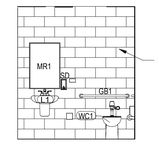
5 INTERIOR ELEVATION - MACHINING LAB NORTH
1/4" = 1'-0" A-101



2 INTERIOR ELEVATION - TOILET SOUTH
1/4" = 1'-0" A-211



4 INTERIOR ELEVATION - MACHINING LAB SOUTH
1/4" = 1'-0" A-101



1 INTERIOR ELEVATION - TOILET EAST
1/4" = 1'-0" A-211

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INTERIOR ELEVATIONS

A-211

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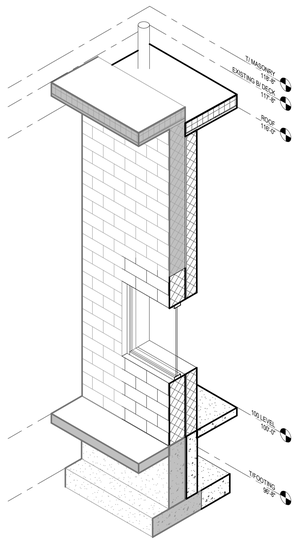
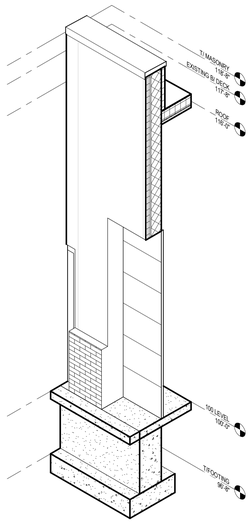
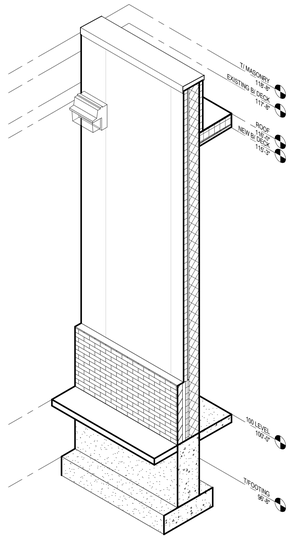


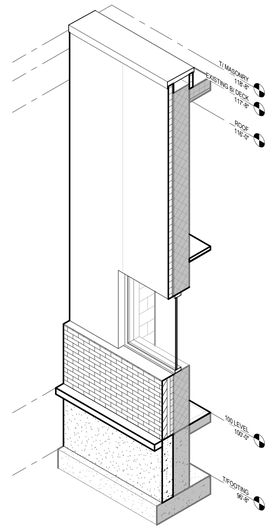
8 AXON AT EXISTING SOUTH WALL



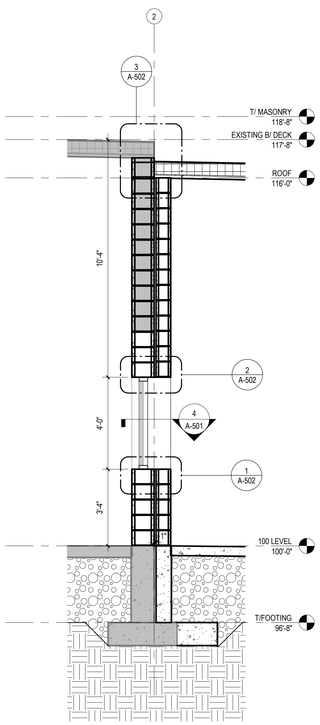
6 AXON AT NEW OVERHEAD DOOR



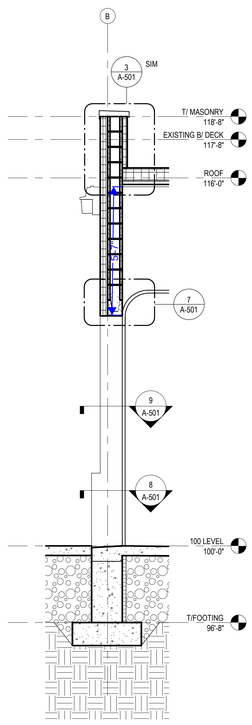
4 AXON AT NEW WALL



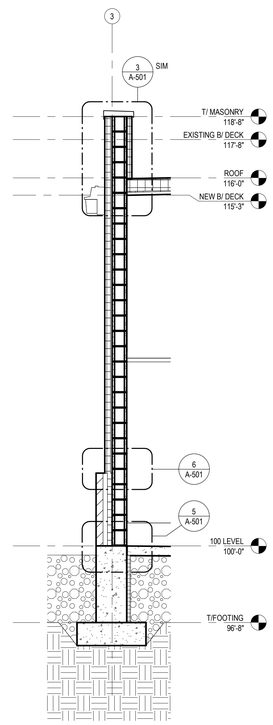
2 AXON AT AT EXISTING WINDOW



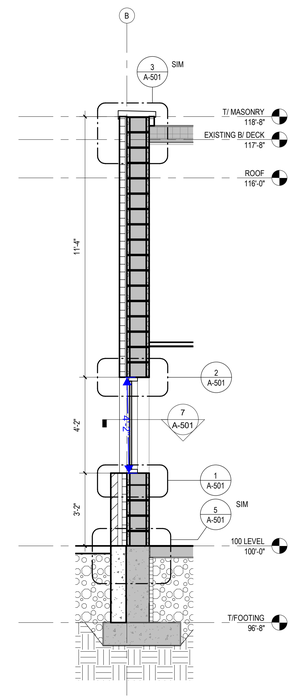
7 WALL SECTION AT EXISTING SOUTH WALL
3/8" = 1'-0" A-101



5 WALL SECTION AT NEW OVERHEAD DOOR
3/8" = 1'-0" A-101



3 WALL SECTION AT NEW WALL
3/8" = 1'-0" A-101



1 WALL SECTION AT EXISTING WINDOW
3/8" = 1'-0" A-101

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WALL SECTIONS

A-311

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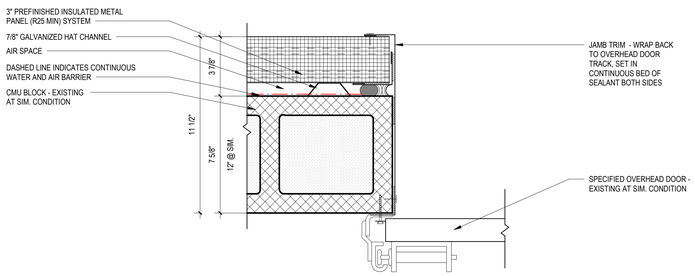
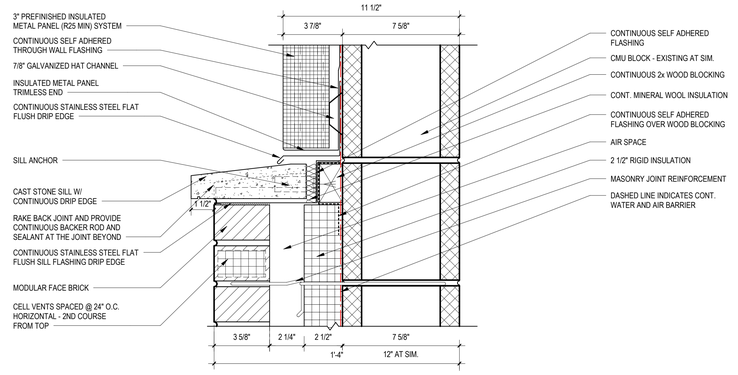
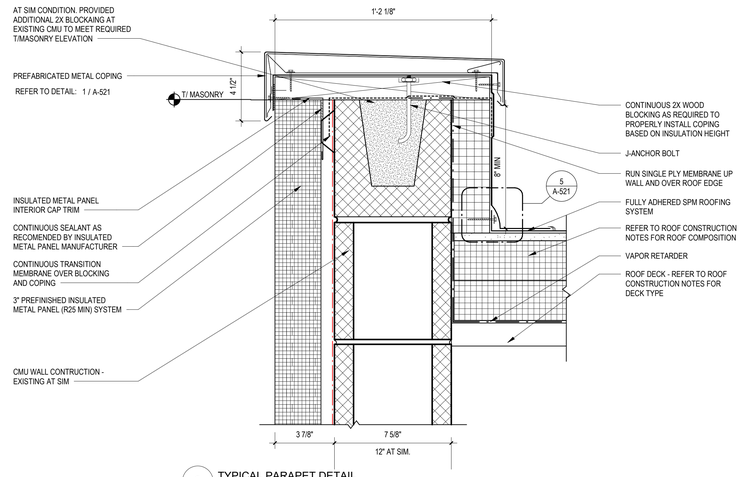


9 IMP JAMB DETAIL AT OVERHEAD DOOR
3" = 1'-0" A-101



6 BRICK TO IMP TRANSITION DETAIL
3" = 1'-0" A-311



3 TYPICAL PARAPET DETAIL
3" = 1'-0" A-311

8 BRICK JAMB DETAIL AT OVERHEAD DOOR
3" = 1'-0" A-101

5 TYPICAL FOUNDATION DETAIL
3" = 1'-0" A-311

2 HEAD DETAIL AT STOREFRONT
3" = 1'-0" A-311

7 HEAD DETAIL AT OVERHEAD DOOR
3" = 1'-0" A-311

4 JAMB DETAIL AT STOREFRONT
3" = 1'-0" A-101

1 SILL DETAIL AT STOREFRONT
3" = 1'-0" A-311

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EXTERIOR DETAILS

A-501
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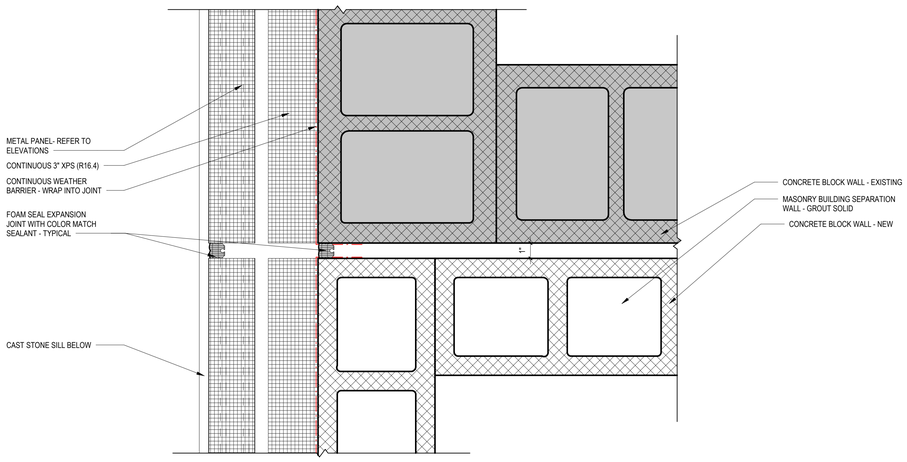

5 EXTERIOR EXPANSION JOINT AT IMP
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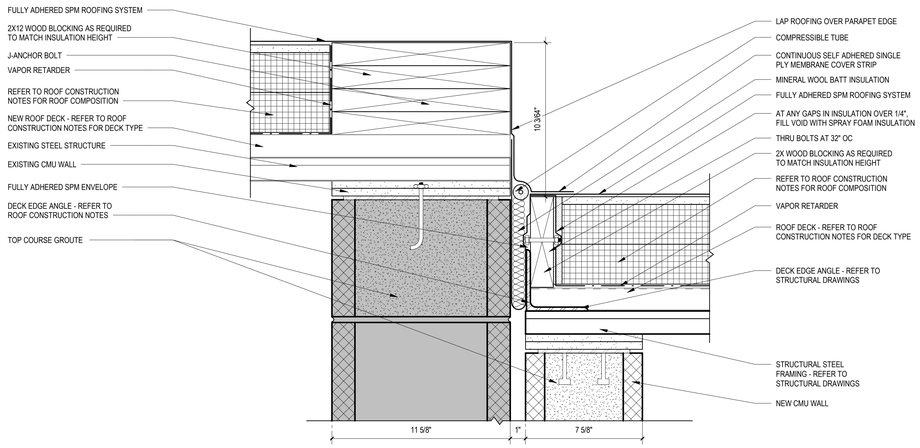
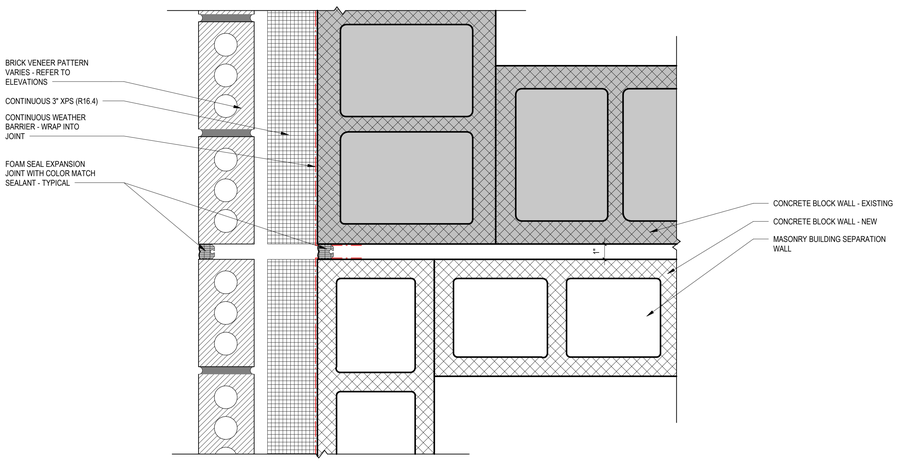
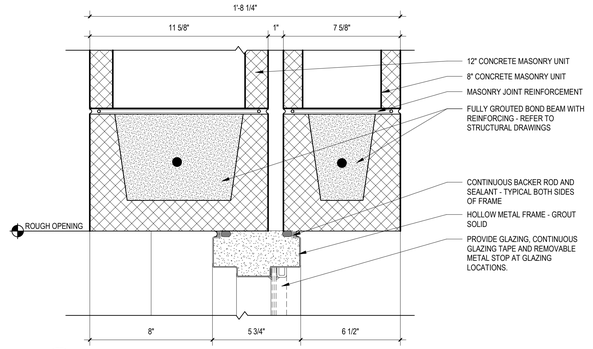


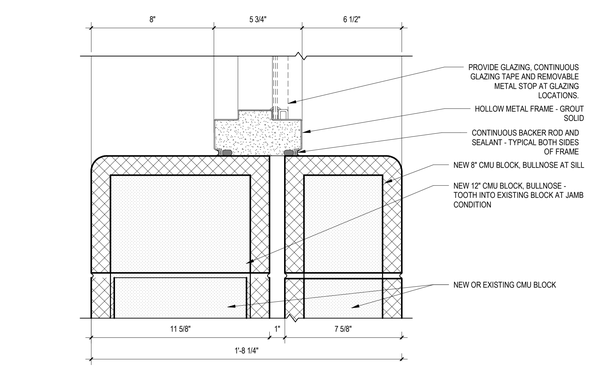
3 EXPANSION JOINT - COMPRESSIBLE TUBE
3" = 1'-0" A-311



4 EXTERIOR EXPANSION JOINT AT BRICK
3" = 1'-0" A-101



2 TYPICAL HM HEAD AT EXPANSION JOINT
3" = 1'-0" A-311



1 TYPICAL HM JAMB AND SILL AT EXPANSION JOINT
3" = 1'-0" A-101

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

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IMEG
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Rock Island, IL 61201
P: 309.788.0673
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CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
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P: 563.285.9341
www.brucebuilders.com

SIGNATURE
DATE

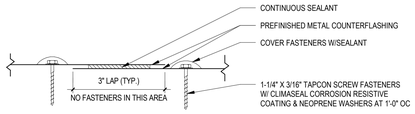
REVISIONS

NO.	DESCRIPTION	DATE

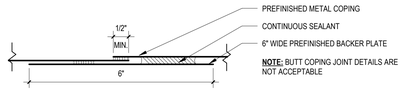
PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	EM
CHECKED BY	JC

EXTERIOR & INTERIOR DETAILS

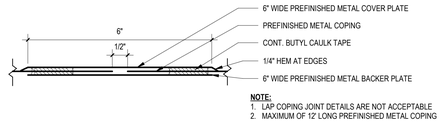
A-502
ISSUED FOR BIDDING



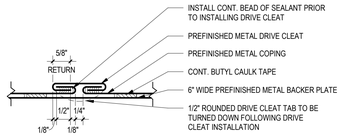
11 TYPICAL COUNTERFLASHING LAP JOINT
6" = 1'-0"



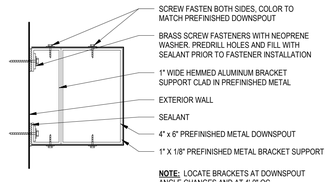
10 VERTICAL COPING CLEAT JOINT DETAIL
6" = 1'-0"



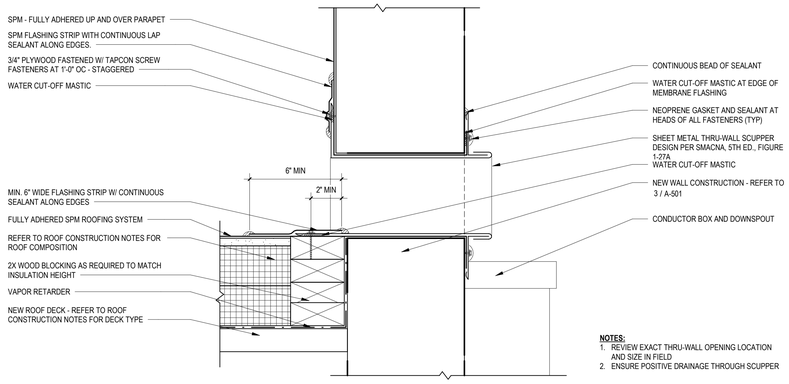
9 HORIZONTAL & VERTICAL COPING JOINT COVER PLATE DETAIL
6" = 1'-0"



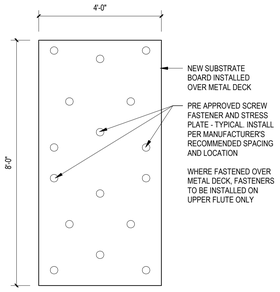
8 HORIZONTAL COPING CLEAT JOINT DETAIL
6" = 1'-0"



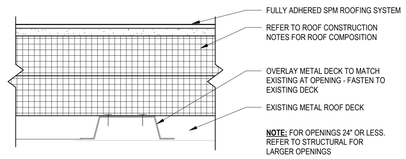
7 DOWNSPOUT BRACKET DETAIL
3" = 1'-0"



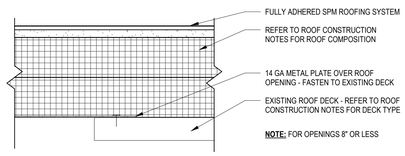
6 SHEET METAL SCUPPER
3" = 1'-0"
A-311



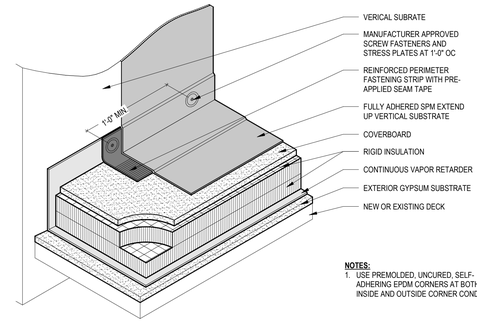
14 MECHANICAL FASTENING DETAIL
1/2" = 1'-0"



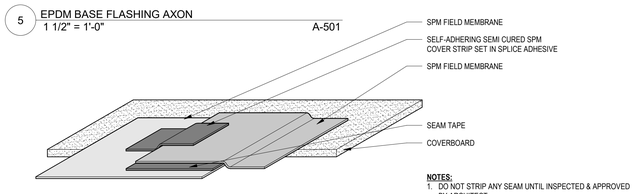
13 ROOF INFILL - 24" OPENING OR LESS
3" = 1'-0"



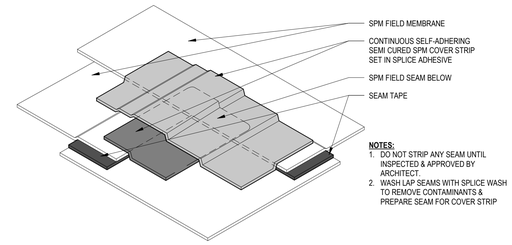
12 ROOF INFILL - 8" OPENING OR LESS
3" = 1'-0"



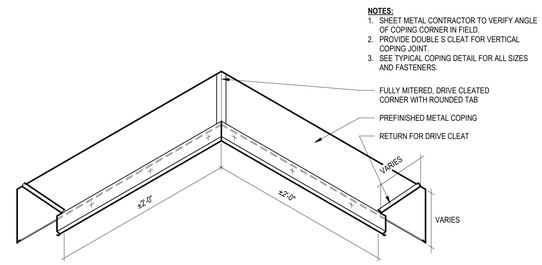
5 EPDM BASE FLASHING AXON
1 1/2" = 1'-0"
A-501



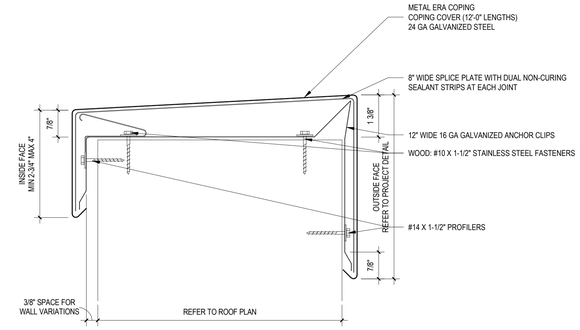
4 EPDM LAP SEAM W/ COVER STRIP
1 1/2" = 1'-0"



3 EPDM LAP SEAM INTERSECTION JOINT
1 1/2" = 1'-0"



2 OUTSIDE COPING CORNER DETAIL
1 1/2" = 1'-0"



1 PARAPET COPING - PREFAB - METAL ERA
6" = 1'-0"

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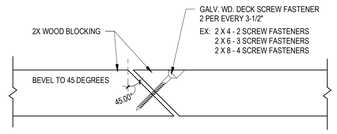
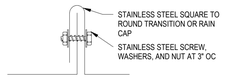
DRAWN BY	KE
CHECKED BY	MS

TYPICAL ROOF DETAILS SINGLE-PLY & PREFINISHED METAL

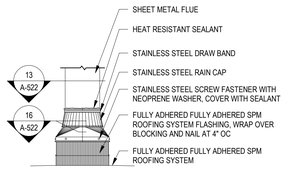
A-521
ISSUED FOR BIDDING



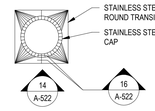
15 TYP. MITERED WOOD BLOCKING DETAIL
6" = 1'-0"



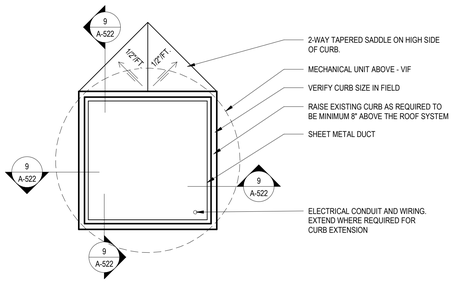
16 FLUE SHEET METAL SEAM
3" = 1'-0" A-522



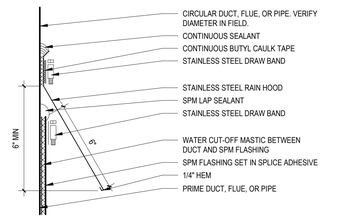
14 FLUE IN ELEVATION
3/4" = 1'-0" A-522



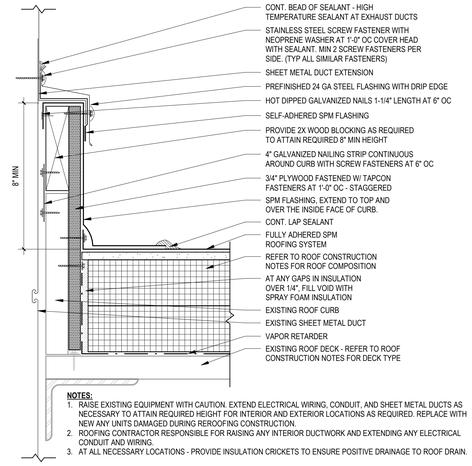
13 FLUE IN PLAN
3/4" = 1'-0" A-522



12 CURB - HVAC UNIT PLAN
1 1/2" = 1'-0" AR101

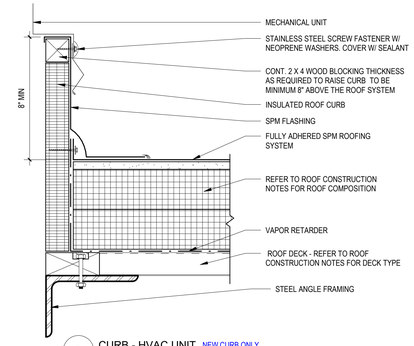


11 RAIN HOOD SECTION DETAIL RAIN HOOD FOR HOT PIPES ONLY
3" = 1'-0"

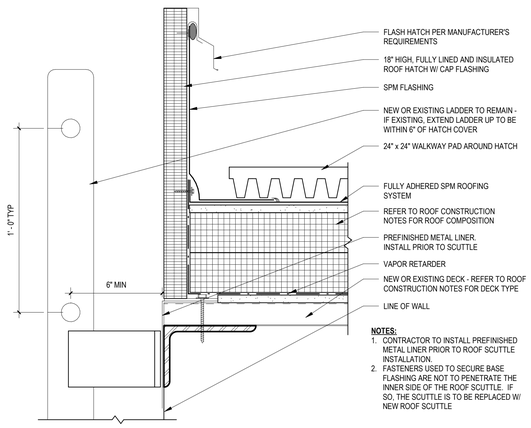


NOTES:
1. RAISE EXISTING EQUIPMENT WITH CAUTION. EXTEND ELECTRICAL WIRING, CONDUIT, AND SHEET METAL DUCTS AS NECESSARY TO ATTAIN REQUIRED HEIGHT FOR INTERIOR AND EXTERIOR LOCATIONS AS REQUIRED. REPLACE WITH NEW ANY UNITS DAMAGED DURING REROOFING CONSTRUCTION.
2. ROOFING CONTRACTOR RESPONSIBLE FOR RAISING ANY INTERIOR DUCTWORK AND EXTENDING ANY ELECTRICAL CONDUIT AND WIRING.
3. AT ALL NECESSARY LOCATIONS - PROVIDE INSULATION CRICKETS TO ENSURE POSITIVE DRAINAGE TO ROOF DRAIN.

10 CURB - EXTENSION
3" = 1'-0"

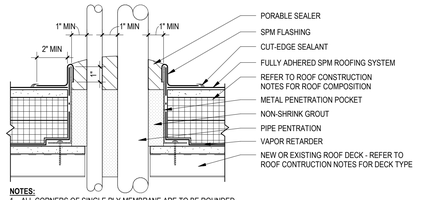


9 CURB - HVAC UNIT NEW CURB ONLY
3" = 1'-0" A-522



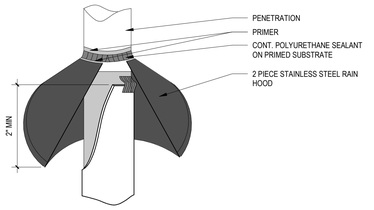
NOTES:
1. CONTRACTOR TO INSTALL PREFINISHED METAL LINER PRIOR TO ROOF SCUTTLE INSTALLATION.
2. FASTENERS USED TO SECURE BASE FLASHING ARE NOT TO PENETRATE THE INNER SIDE OF THE ROOF SCUTTLE. IF SO, THE SCUTTLE IS TO BE REPLACED W/ NEW ROOF SCUTTLE

8 CURB - ROOF HATCH
3" = 1'-0"

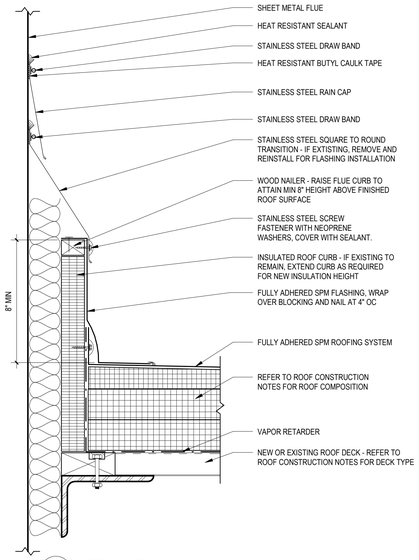


NOTES:
1. ALL CORNERS OF SINGLE PLY MEMBRANE ARE TO BE ROUNDED.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. DO NOT USE OVER EXISTING PENETRATION POCKETS.
4. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 FAHRENHEIT.
5. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING.
6. PRIME PENETRATIONS AND INSIDE OF POCKET BEFORE INSTALLING POURABLE SEALER.

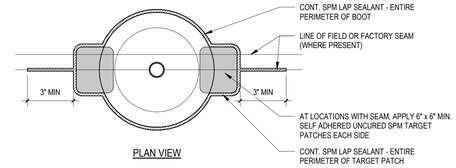
7 PENTRATION POCKET - MULTIPLE PIPE PENETRATIONS
3" = 1'-0"



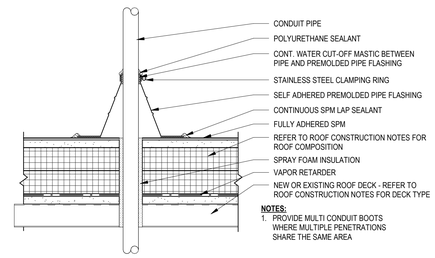
6 RAIN HOOD SECTION AXON RAIN HOOD FOR HOT PIPES ONLY
3" = 1'-0"



5 CURB - FLUE
3" = 1'-0"



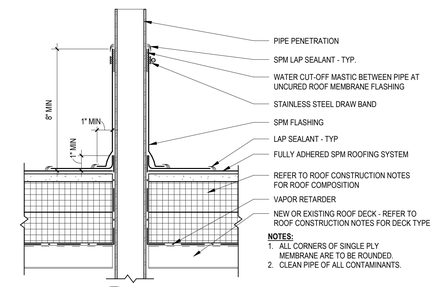
PLAN VIEW



NOTES:
1. PROVIDE MULTI CONDUIT BOOTS WHERE MULTIPLE PENETRATIONS SHARE THE SAME AREA

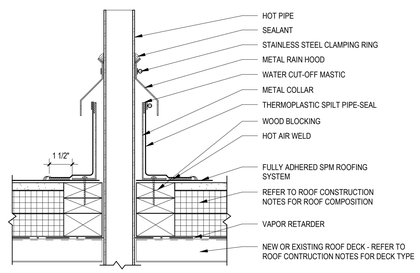
SECTION VIEW

3 CONDUIT PENETRATION DETAIL
3" = 1'-0"

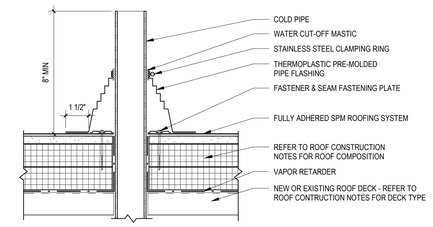


NOTES:
1. ALL CORNERS OF SINGLE PLY MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.

2 COLD PIPE FLASHING - FIELD FAB
3" = 1'-0"



4 HOT PIPE FLASHING
3" = 1'-0"



1 COLD PIPE FLASHING - PRE-MOLDED
3" = 1'-0" AR101

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

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DRAWN BY	KE
CHECKED BY	MS

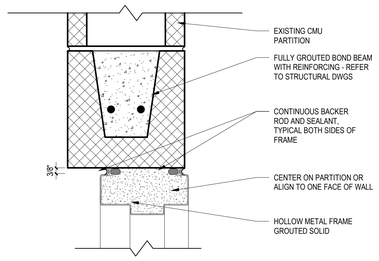
TYPICAL ROOF DETAILS SINGLE-PLY MEMBRANE PENTRATIONS & CURBS

A-522

ISSUED FOR BIDDING

DOOR AND FRAME SCHEDULE

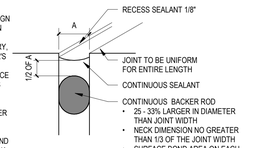
			DOOR					FRAME				FIRE RATING	
DOOR #	FROM ROOM	TO ROOM	TYPE	MATERIAL	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	DEPTH	HDWR	(MINS)	REFERENCED NOTES
100	VESTIBULE		N	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			2, 5
101B	CLASSROOM		N	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			5
102A	MACHINING LAB	VESTIBULE	F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			
102B	MACHINING LAB		F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			2, 5
102C	MACHINING LAB	WELDING LAB	G	HM	3'-0"	7'-0"	1 3/4"	S	HM	5 3/4"			
103	VESTIBULE	TOILET	F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			
104B	OFFICE	MACHINING LAB	G	HM	3'-0"	7'-0"	1 3/4"	S	HM	5 3/4"			
105B	WELDING LAB		F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			2
105C		WELDING LAB	F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			
106A		MECHANICAL ROOM	F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			5
106B	MECHANICAL ROOM	WELDING LAB	F	HM	4'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			
107	MACHINING LAB	STORAGE	F	HM	3'-0"	7'-0"	1 3/4"	DF	HM	5 3/4"			



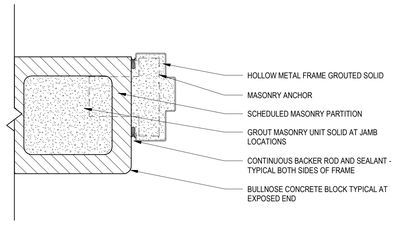
1 HOLLOW METAL HEAD AT EXISTING CMU WALL
3" = 1'-0"

INSTALLATION INSTRUCTIONS

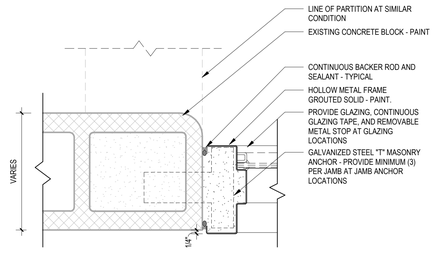
1. REMOVE LOOSE MATERIALS AND FOREIGN MATTER THAT COULD IMPAIR ADHESION OF SEALANT
2. CLEAN JOINT, AND PRIME AS NECESSARY, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
3. PERFORM PREPARATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ASTM C1193
4. INSTALL BACKER ROD, USE BOND BREAKER BACKING TAPE WHERE BACKER ROD CANNOT BE USED
5. MASK ELEMENTS AND SURFACES ADJACENT TO JOINTS FROM DAMAGE AND DISFIGUREMENT DUE TO SEALANT WORK; BE AWARE THAT SEALANT DRIPS AND SMEARS MAY NOT BE COMPLETELY REMOVABLE
6. PERFORM INSTALLATION PER MANUFACTURER'S INSTRUCTIONS AND ASTM C1193
7. TOOL SURFACE CONCAVE, UNLESS OTHERWISE INDICATED; REMOVE MASKING MATERIAL IMMEDIATELY AFTER TOOLING SEALANT SURFACE



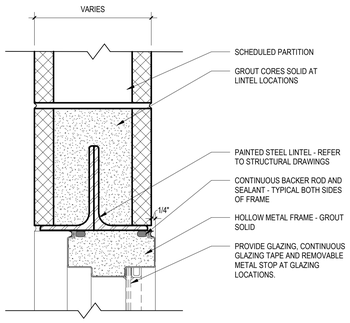
4 BACKER ROD & SEALANT DETAIL
12" = 1'-0"



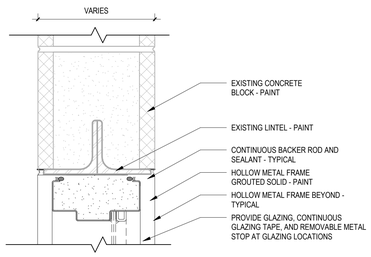
3 HOLLOW METAL JAMB
3" = 1'-0"



10 HOLLOW METAL JAMB DETAIL IN CMU - EXISTING CMU
3" = 1'-0"

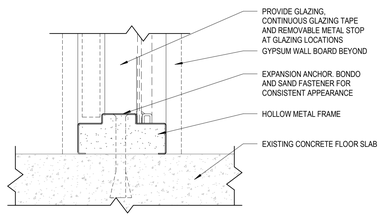


2 HOLLOW METAL HEAD DETAIL
3" = 1'-0"

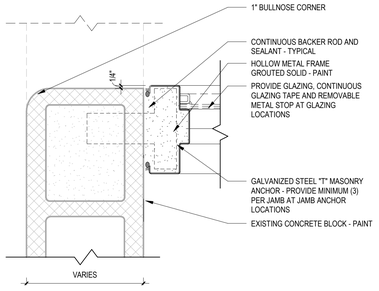


8 HOLLOW METAL HEAD DETAIL IN CMU - EXISTING CMU
3" = 1'-0"

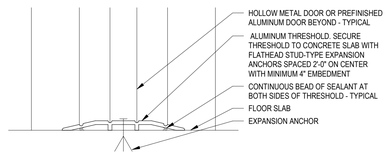
A-201



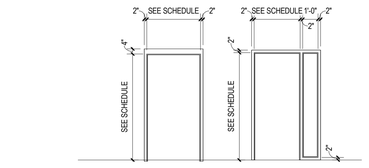
11 HOLLOW METAL SILL DETAIL
3" = 1'-0"



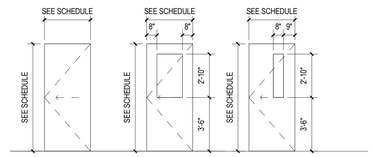
12 HOLLW METAL JAMB DETAIL - EXISTING CMU
3" = 1'-0"



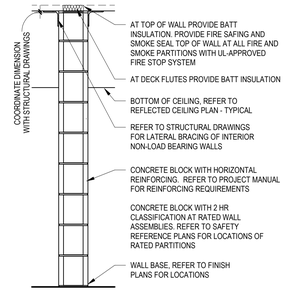
5 DOOR OPENING SILL DETAIL
3" = 1'-0"



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



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



UL: U905 (2HR); U906 (2HR) 6" AND 8" CMU ONLY; U904 (3HR); U901 (4HR)

STC: SEE BELOW

CMU PARTITION
- DENOTES CMU DEPTH
- LETTER MODIFIER(S) (REFER TO BELOW)
- LAYER MODIFIER(S) FURRING OR VENEER APPLICATION

M # X (#)

CMU DEPTH "#"

M 4	4" CMU	(STC: 40)
M 6	6" CMU	(STC: 42)
M 8	8" CMU	(STC: 44)
M 10	10" CMU	(STC: 46)
M 12	12" CMU	(STC: 48)

LETTER MODIFIERS "X"

M #	STANDARD CMU	M # R1	1-HOUR RATED PARTITION
M # G	GROUND FACE	M # R2	2-HOUR RATED PARTITION
M # L	SPLIT FACE	M # R3	3-HOUR RATED PARTITION
M # C	FLUTED ACOUSTIC	M # R4	4-HOUR RATED PARTITION
M # F	FLUTED		
M # T	GLAZED		
M # S	SMOKE RATED		

LAYER MODIFIERS "(#)"
REFER TO FURRING PARTITION

M # X (1)	FURRING OR VENEER ON ONE (1) SIDE - REFER TO DRAWINGS
M # X (2)	FURRING OR VENNER ON BOTH SIDES

NOTES
1. STC VARIES BASED ON DENSITY AND TYPE OF CMU, AND TYPE OF FILL WHERE REQUIRED.
2. REFER TO STRUCTURAL DRAWINGS FOR TOP OF WALL CONDITION AT LOAD BEARING CMU PARTITIONS.

6 PARTITION TYPES
3/4" = 1'-0"

GENERAL NOTES

GENERAL:
1. ALL DOOR AND FRAME TYPES ARE SHOWN AS EXTERIOR VIEW.
2. FRAME WIDTHS ARE INDICATED ON THE FLOOR PLANS. FRAME HEIGHTS ARE INDICATED ON THE FRAME TYPES. DOOR DIMENSIONS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE.
3. DIMENSIONS ARE INDICATED FOR BIDDING PURPOSES ONLY AND SHALL BE FIELD VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION.
4. THE MANUFACTURER(S) SHALL BE RESPONSIBLE FOR THE ENGINEERING AND STRUCTURAL INTEGRITY OF THEIR FRAME SYSTEMS.
5. ALL FRAMES IN MASONRY OPENINGS REQUIRE A LINTEL. REFER TO DOOR AND FRAME SCHEDULE AND/OR STRUCTURAL DRAWINGS.
6. ALL OPENINGS IN FRAMES REQUIRE GLAZING PANELS OR INFILL PANELS EXCEPT FOR DOOR OPENINGS. GLAZING TYPES FOR EXTERIOR FRAMES ARE INDICATED ON THE FRAME TYPES. GLAZING TYPES FOR INTERIOR FRAMES ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
7. ALL OPENINGS IN DOORS REQUIRE GLAZING PANELS UNLESS NOTED OTHERWISE. GLAZING TYPES FOR DOORS ARE INDICATED ON THE DOOR AND FRAME SCHEDULE OR HEREIN.
8. HARDWARE SETS AND GLAZING TYPES ARE SPECIFIED IN THE PROJECT MANUAL.
9. FRAMES SHALL BE DESIGNED, CUT, AND FABRICATED TO MINIMIZE JOINTS:
   A. JOINTS IN HOLLOW METAL FRAMES SHALL RECEIVE METAL FILLER, BE GROUND SMOOTH AND SHOP/FIELD PRIMED PRIOR TO FINISH PAINT.
   B. JOINTS IN EXTERIOR ALUMINUM FRAMES SHALL BE AIR AND WATER TIGHT IN ACCORDANCE WITH THE REQUIREMENTS IDENTIFIED IN THE PROJECT MANUAL. LAP AND SEAL ALL JOINTS. ALLOW FOR EXPANSION IN THE TRIM AND AT JOINTS AND INTERSECTIONS OF ADJACENT FRAMES.

HOLLOW METAL DOORS AND FRAMES:
13. ALL HOLLOW METAL FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS UNO:
    A. FACE WIDTH: 2"
    B. FRAME DEPTH: 5-3/4" UNO
    C. THROAT: 4-7/8"
    D. RETURN: 7/16"
14. ANCHORAGE AT HOLLOW METAL FRAMES:
    A. PROVIDE FASTENERS AT 18" ON CENTER AND MINIMALLY THREE (3) ANCHORS PER JAMB.
    B. AT FRAMES INSTALLED PRIOR TO MASONRY INSTALLATION PROVIDE GALVANIZED STEEL "T" ANCHORS.
    C. AT FRAMES INSTALLED AFTER MASONRY INSTALLATION OR AT EXISTING MASONRY OPENINGS PROVIDE GALVANIZED STEEL SPACER BRACKETS, ANCHOR SLEEVES WELDED TO THE INTERIOR OF THE FRAME, AND COUNTERSUNK 3/8" FLATHEAD EXPANSION ANCHORS. COVER HEAD OF FASTENERS WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.
    D. AT FRAMES INSTALLED IN STUD PARTITIONS PROVIDE GALVANIZED STEEL Z-TYPE SPACE BRACKETS.
15. JAMBS OF FRAMES INSTALLED IN EXTERIOR WALLS AND WHERE INDICATED SHALL BE GROUTED SOLID. COVER GROUT HOLES WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT.

GLAZING:
16. GLAZING AT INTERIOR DOORS AND FRAMES SHALL BE TYPE I-1 UNO.
17. GLAZING AT FIRE RATED INTERIOR DOORS AND FRAMES SHALL BE TYPE I-2 UNO.

GLAZING TYPES

INTERIOR:

I-1	TEMPERED GLAZING UNIT
I-2	FIRE RATED GLAZING UNIT

REFERENCED NOTES

1. GROUT HOLLOW METAL FRAME SOLID
2. PROVIDE CARD READER AND ELECTRIC LATCH. CARD READERS OWNER PROVIDED AND CONTRACTOR INSTALLED
3. DOOR ASSEMBLY TO MEET FULL RATING
4. PAINT INTERIOR OF METAL DOOR AND FRAME SAME COLOR AS WALL
5. NEW DOOR AND FRAME IN EXISTING OPENING.

GENERAL NOTES: THRESHOLDS

1. ALL ALUMINUM THRESHOLDS TO BE FIRE RATED (FR) & CONFORM TO UL 10C.
2. USE ALUMINUM THRESHOLD UNDER ALL RATED DOORS (UNLESS FLOOR IS EXPOSED CONCRETE).
3. ALL ALUMINUM THRESHOLDS TO BE ANCHORED TO CONCRETE WITH FLAT HEAD METAL (FINISH TO MATCH ALUMINUM) EXPANSION ANCHORS.
4. RESILIENT FLOORING = VCT OR RUBBER OR LINOLEUM FLOORING
5. CARPET = CARPET OR CARPET TILE

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ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
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Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 223048.00
DATE OF ISSUE 10.17.2023
DRAWN BY
CHECKED BY

DOOR, FRAME AND PARTITION DETAILS

A-601
ISSUED FOR BIDDING

PLUMBING EQUIPMENT:

SEWAGE EJECTOR (SE)

BOOSTER PUMP (BP)

GAS FIRED WATER HEATER - EXTERNAL STORAGE (GWH)

GAS FIRED WATER HEATER - INTERNAL STORAGE (GWH)

ELECTRIC WATER HEATER - INTERNAL STORAGE (EWH)

GAS FIRED WATER HEATER - TANKLESS (GWH)

WATER METER

SEPARATOR/ INTERCEPTOR (SEE SCHEDULE FOR ABBREVIATION)

RECIRCULATION PUMP

EXPANSION TANK (ET)

SUMP PUMP (SP)

BACK WATER VALVE (BW)

GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.
2. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK. FURTHER DETAIL OF THE WORK THAT IS REQUIRED FOR A COMPLETE INSTALLATION, WHICH IS NOT SHOWN BECAUSE OF DRAWING SCALE, SHALL BE INCLUDED IN BASE BID.
3. FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
4. ALL PERMITS, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR THE WORK SHALL BE INCLUDED WITH THE BASE BID. THIS INCLUDES PLAN REVIEW FEE FOR ALL BACKFLOW PREVENTERS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS TO ALL PIPING AS REQUIRED WHETHER SHOWN OR NOT.
6. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
7. PROVIDE HOLES, SLEEVES, FIRE STOPPING AND PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
8. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM E84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
9. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
10. MANUFACTURER AND PRODUCT SELECTION: THE DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, AND DIMENSIONAL REQUIREMENTS OF MATERIAL AND SPECIFIC PRODUCTS. MANUFACTURERS OF PRODUCTS HAVING EQUIVALENT PERFORMANCE CHARACTERISTICS HAVE BEEN LISTED IN THE SPECIFICATION. THE USE OF ANY OF THESE EQUIVALENT PRODUCTS SHALL REQUIRE THAT THE CONTRACTOR IDENTIFY MODIFICATIONS TO ACCOMMODATE VARIATIONS IN CHARACTERISTICS, SUCH AS WEIGHTS, CONNECTIONS, SIZES, AND DIMENSIONS. THE RESPONSIBILITY FOR MODIFICATIONS TO MECHANICAL, STRUCTURAL, ELECTRICAL, OR OTHER PLUMBING SYSTEMS, OR TO ACCOMMODATE CODES SHALL BE WITH THE CONTRACTOR. COSTS RESULTING FROM THE USE OF THESE EQUIVALENT PRODUCTS SHALL BE INCLUDED WITH THE BASE BID.

INSULATION SCHEDULE:

DOMESTIC COLD WATER ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION. ½" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER-ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.
PIPING TO BE INSULATED ACCORDING TO 2009 INTERNATIONAL ENERGY CONSERVATION CODE. ANY NEW WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3.

PLUMBING FITTINGS:

45° ELBOW

CAP

90° ELBOW

ELBOW DOWN

ELBOW UP

TEE

TEE DOWN

TEE UP

LATERAL

UNION

FLEXIBLE CONNECTION

PIPE CONTINUATION

CLEANOUT (CO)

FLOOR CLEANOUT (FCO)

WALL CLEANOUT (WCO)

FLOOR SINK

XX DRAIN

XX DENOTES THE FOLLOWING
(AD) AREA DRAIN
(FD) FLOOR DRAIN
(HD) HUB DRAIN
(RD) ROOF DRAIN

PLUMBING VALVES:

SOLENOID VALVE

MODULATING 2-WAY VALVE

MODULATING 3-WAY VALVE

BALANCING VALVE

BALL VALVE

BUTTERFLY VALVE

CHECK VALVE

MIXING VALVE

FLOAT OPERATED VALVE

GATE VALVE

GLOBE VALVE

PLUG VALVE

PRESSURE REDUCING VALVE

SAFETY RELIEF VALVE

DOUBLE CHECK VALVE ASSEMBLY

RP REDUCED PRESSURE ZONE VALVE (RPZ)

DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT

PLUMBING SPECIALTIES:

AUTOMATIC AIR VENT

MANUAL AIR VENT

PRESSURE GAUGE

PS PRESSURE SWITCH

THERMOMETER

STRAINER, BLOW DOWN

STRAINER

EXPANSION LOOP

EXPANSION JOINT

WATER HAMMER ARRESTER

AQUASTAT

HOSE BIBB/ WALL HYDRANT

TRAP PRIMER

VB VACUUM BREAKER

SPV SPILL PROOF VACUUM BREAKER

PIPE SYSTEM LINETYPES:

PIPING OR EQUIPMENT TO BE REMOVED

PIPING OR EQUIPMENT TO REMAIN

IWP INDIRECT WASTE PIPE (IWP)

GRS GREY WASTE (GRS)

GR GREASE WASTE (GR)

CV CLEAR WATER VENT (CV)

AV ACID VENT (AV)

AW ACID WASTE (AW)

DT SUB-SOIL DRAINAGE (DT)

IRRG IRRIGATION (IRRIG)

GRW GREY WATER (GRW)

CA COMPRESSED AIR (CA)

CW(CITY) CITY COLD WATER (CW(CITY))

COLD WATER DOMESTIC (CW)

CWR COLD WATER RETURN (CWR)

SCW SOFT COLD WATER (SCW)

GW GARAGE WASTE (GW)

HOT WATER DOMESTIC (HW)

HOT WATER DOMESTIC RETURN (HWR)

NG NATURAL GAS (NG)

NPCW NON-POTABLE COLD WATER (NPCW)

OV OIL VENT (OV)

PD PUMP DISCHARGE (PD)

PW PURE WATER (PW)

SAN SANITARY (SAN)

ST STORM (ST)

STO STORM OVERFLOW (STO)

UNDERGROUND PIPING

V VENT (V)

PLUMBING TAGS:

MARK / X / X / NUMBER — PLUMBING EQUIPMENT TAG

RISER / X / NUMBER — RISER TAG

PIPE SIZE / #" XX / SYSTEM ABBREVIATION — PIPE DIMENSION TAG

POINT OF NEW CONNECTION

POINT OF DISCONNECTION

VIEW NUMBER REFERENCE / X | X / SHEET NUMBER — REFERENCE TAG

GENERAL:

DRAWING KEYNOTE SYMBOL

DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION

DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION

DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY

DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT

•X' - X" MOUNTING HEIGHT DESIGNATION

PLUMBING ABBREVIATIONS:

AD	AREA DRAIN
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP
BTU	BRITISH THERMAL UNIT
BTUH	BTU(S) PER HOUR
BV	BALANCING VALVE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CPVC	CHLORINATED PVC
CW	COLD WATER
CWR	COLD WATER RETURN
CWFU	COLD WATER FIXTURE UNITS
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DS	DOWNSPOUT
DW	DISH WASHER
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EVAC	WASTE ANESTHETIC GAS DISPOSAL
EW	EMERGENCY EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRS	FLUSHING RIM SINK
FS	FLOOR SINK
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
HW	HOT WATER
HWR	HOT WATER RETURN
HWFU	HOT WATER FIXTURE UNITS
IWP	INDIRECT WASTE PIPE
KS	KITCHEN SINK
KW	KILOWATT
LA	LAB AIR
LAV	LAVATORY
LV	LABATORY VACUUM
MB	MOP BASIN
MBH	BTU PER HOUR (THOUSAND
MV	MIXING VALVE
N	NITROGEN
NCP	NITROGEN CONTROL PANEL
ND	NOZZLE DRAIN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPT	NATIONAL PIPE THREAD TAPERED
O	OXYGEN
PEX	CROSS LINKED POLYETHYLENE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PVC	POLYVINYL CHLORIDE
PW	PURE WATER
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
RPM	REVOLUTIONS PER MINUTE
S	SINK
SD	SHOWER DRAIN
SE	SEWAGE EJECTOR
SFU	SUPPLY FIXTURE UNIT
SH	SHOWER
SP	SUMP PUMP
SPR	STANDPIPE RECEPTOR
SS	SERVICE SINK
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
VA	VACUUM
VTR	VENT THROUGH ROOF
W	WASTE PIPE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AVG	AVERAGE
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DEG-F, °F	DEGREES FAHRENHEIT
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HVC	HEATING VENTILATING CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET
SPEC	SPECIFICATION(S)
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

RENOVATION LEGEND:

X	EXISTING TO REMAIN
XRL	EXISTING TO BE RELOCATED
XO	EXISTING TO BE REMOVED
XNL	EXISTING IN NEW LOCATION
N	NEW

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ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

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Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE _____

DATE _____

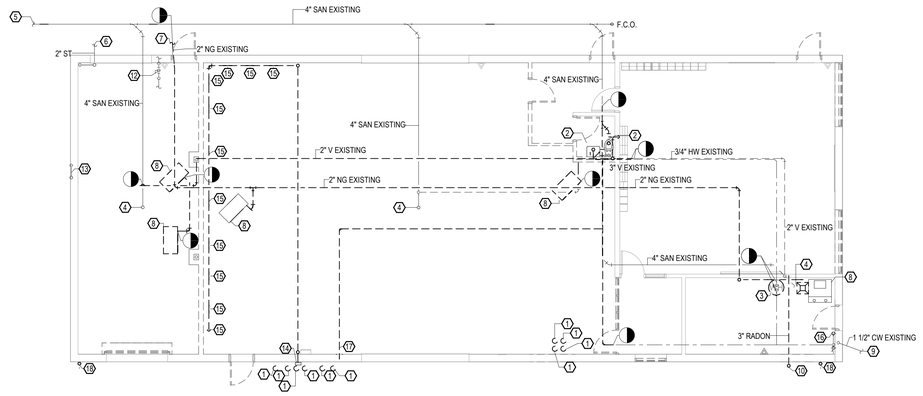
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	BMA
CHECKED BY	MJB

PLUMBING LEGEND

P-000
ISSUED FOR BIDDING



1 PD101 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

2 PD101 PLUMBING DEMOLITION ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALATION.
3. REFER TO SHEET P-000 FOR LEGEND
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
5. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCALDING WILL NOT OCCUR.

#	KEYNOTES
1	EXISTING WELDING GAS TANKS TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING WELDING TANKS AND PIPING. DEMO ALL GAS PIPING BACK TO TANKS.
2	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMO EXISTING HW, CW, SAN AND VENT LINES BACK TO MAINS.
3	EXISTING WATER HEATER TO DEMOLISHED IN SUCH A WAY TO RECONNECT NEW WATER HEATER TO EXISTING CW AND HW LINES. DEMO ALL GAS PIPING BACK TO MAIN.
4	EXISTING TRENCH DRAIN TO REMAIN.
5	EXISTING 4" SANITARY LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL.
6	EXISTING STORM DRAIN TO REMAIN.
7	2" GAS LINE TO CONTINUE TO CONNECT TO EXISTING HIGH SCHOOL.
8	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
9	EXISTING 1-1/2"CW LINE TO CONTINUE TO CITY MAIN TO REMAIN.
10	EXISTING RADON MITIGATION SYSTEM TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION.
11	EXISTING 3" VENT THROUGH ROOF TO BE DEMOLISHED BACK TO DEMO SYMBOLS. PATCH ROOF TO MATCH EXISTING.
12	EXISTING WATER VALVE TO REMAIN.
13	EXISITNG INSULATED WATER LINE TO REMAIN.
14	EXISTING ARGON GAS MANIFOLD TO BE DEMOLISHED BACK TO ARGON GAS TANKS.
15	EXISTING ARGON GAS DROP TO BE DEMOLISHED BACK TO ARGON GAS MAIN.
16	EXISTING SPRINKLER AND IRRIGATION VALVE SYSTEM TO REMAIN.
17	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. DEMO COLD WATER LINE BACK TO BE BUILDING MAIN. PATCH WALL TO MATCH EXISTING CONDITIONS.
18	EXISTING STORM DRAIN TO BE DEMOLISHED BACK TO ROOF.

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

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RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
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900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
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CHECKED BY	MJB

PLUMBING DEMOLITION PLAN

PD101

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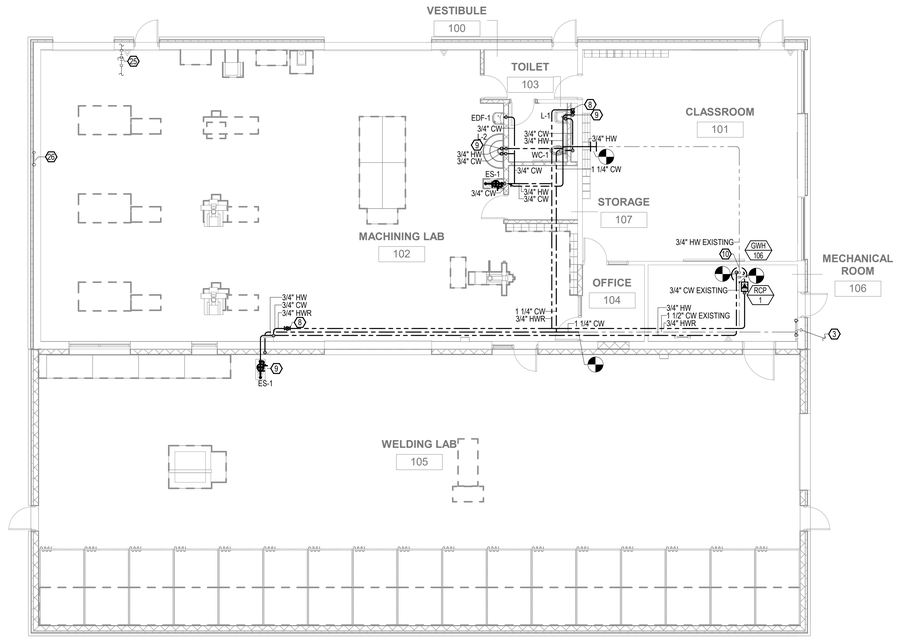
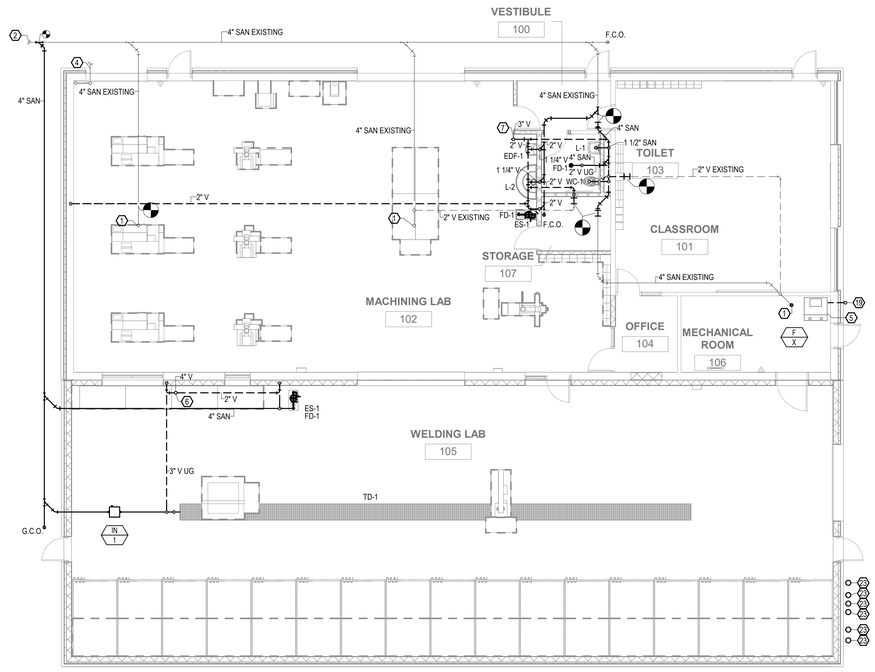


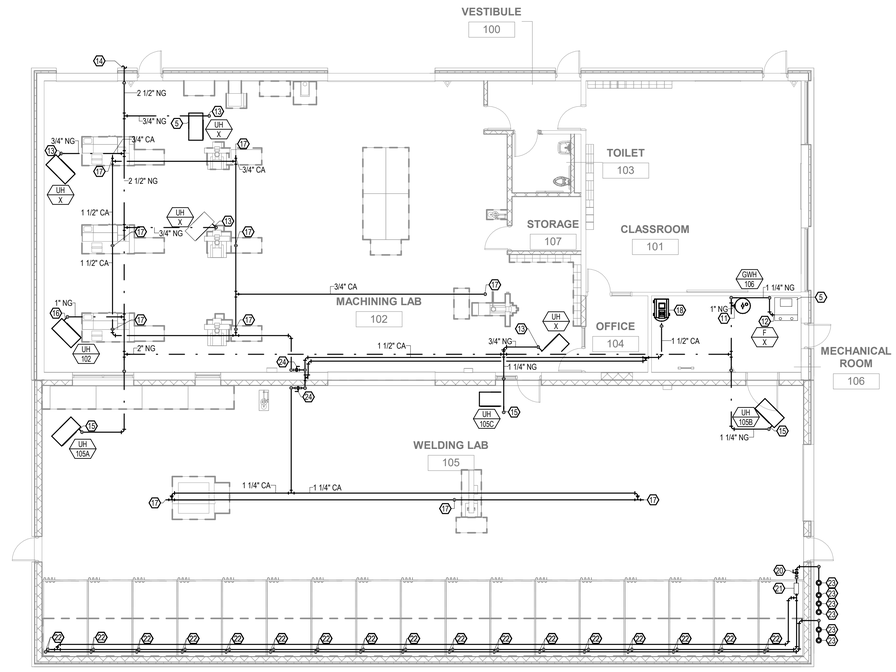
1 P-101 PLUMBING DOMESTIC WATER PLAN

1/8" = 1'-0"



2 P-101 PLUMBING SANITARY AND VENT PLAN

1/8" = 1'-0"



3 P-101 PLUMBING GAS, COMPRESSED AIR, AND ARGON GAS PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALATION.
3. REFER TO SHEET P-000 FOR LEGEND
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
5. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCALDING WILL NOT OCCUR.

#	KEYNOTES
1	EXISTING TRENCH DRAIN TO REMAIN.
2	EXISTING 4" SANITARY LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL.
3	EXISTING 1-1/2"CW LINE TO CONTINUE TO CITY MAIN TO REMAIN.
4	EXISTING STORM DRAIN TO REMAIN.
5	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
6	NEW 4" VENT THROUGH ROOF.
7	NEW 3" VENT THROUGH ROOF.
8	INSTALL 3/4" BALANCING VALVE ON HOT WATER RETURN LINE PRIOR TO CONNECTION TO HOT WATER LINE.
9	PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
10	NEW GAS WATER HEATER TO BE INSTALLED IN SAME LOCATION AS EXISTING WATER HEATER. RECONNECT EXISTING CW AND HW LINES TO NEW WATER HEATER.
11	NEW 1" GAS LINE TO CONNECT TO WATER HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO WATER HEATER.
12	NEW 1-1/4" GAS LINE TO CONNECT TO EXISTING FURNACE. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO EXISTING FURNACE.
13	NEW 3/4" GAS LINE TO CONNECT TO EXISTING UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
14	NEW 2-1/2" GAS LINE CONTINUE BACK TO BUILDING MAIN.
15	NEW 1-1/4" GAS LINE TO CONNECT TO NEW UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
16	NEW 1" GAS LINE TO CONNECT TO NEW UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
17	3/4" AIR HOSE DROP ROM HIGH (10 SCFM)
18	AIR COMPRESSOR SHOWN AS REFERENCE ONLY. MINIMUM OF 10 GALLON AIR COMPRESSOR, AIR DELIVERY OF 10 SCFM @ 90 PSI. 3 HP MOTOR. ELECTRICAL TO BE 208/1/60.
19	EXISTING RADON MITIGATION SYSTEM TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION.
20	ARGON GAS SHUT OFF VALVE. SHUT OFF TO BE LOCATED IN LOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.
21	ARGON GAS ZONE MANIFOLD VALVE WITH PRESSURE GAUGE AND ALARM.
22	1" ARGON / CO2 GAS LINE DOWN TO SERVE WELDING TABLES. INCLUDE PRESSURE COMPENSATED FLOWMETER REGULATOR AT BASE OF DROP.
23	EXISTING WELDING GAS TANKS TO BE RELOCATED IN THIS LOCATION. PROVIDE EXISTING TANK SUPPORT FRAMING.
24	COMPRESSED AIR SHUT OFF VALVE. SHUT OFF TO BE LOCATED IN LOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.
25	EXISTING WATER VALVE TO REMAIN.
26	EXISITNG INSULATED WATER LINE TO REMAIN.

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PLUMBING PLAN

P-101
ISSUED FOR BIDDING

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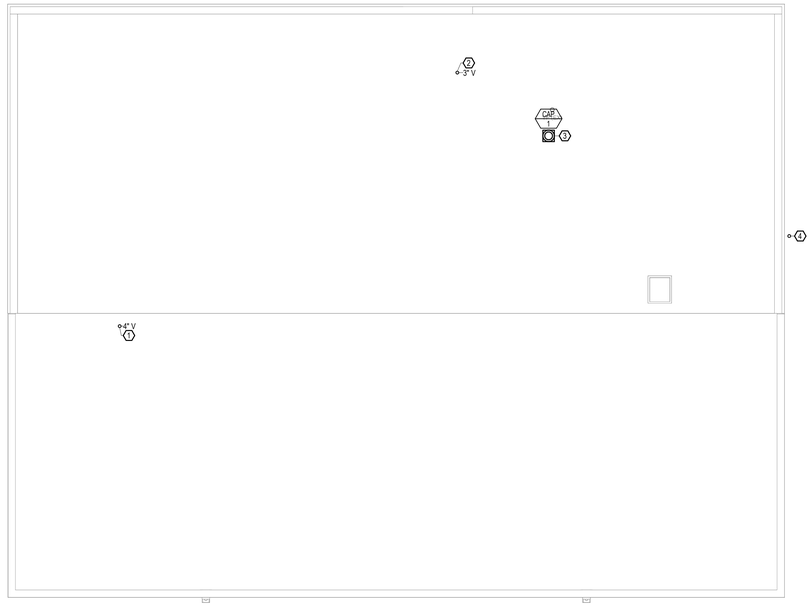
2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALATION.
3. REFER TO SHEET P-000 FOR LEGEND
4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
5. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCALDING WILL NOT OCCUR.

#	KEYNOTES
1	NEW 4" VENT THROUGH ROOF TO BE A MINIMUM OF 10"-0" AWAY FROM ANY FRESH AIR INTAKES.
2	NEW 3" VENT THROUGH ROOF TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.
3	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
4	EXISTING RADON MITIGATION SYSTEM TO BE DEMOLISHED IN SUCH A WAY TO BE RELOCATED TO NEW LOCATION.



1 P-201 PLUMBING ROOF PLAN

1/8" = 1'-0"

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PLUMBING ROOF PLAN

P-201

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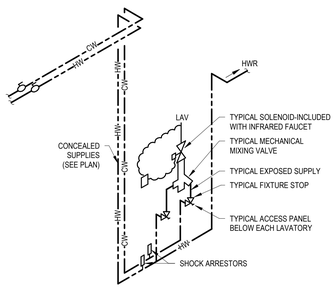
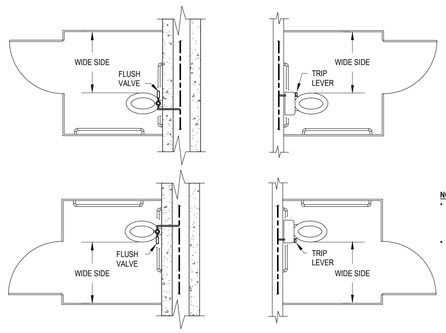


1 P-300 LAVATORY TEMPERED WATER SUPPLY

SCALE: N.T.S.



NOTES:

- GRAB BAR HEIGHT NOT TO EXCEED 44 INCHES HIGH. COORDINATE ALTERNATE HEIGHT WITH ARCHITECT OR CONTRACTOR FOR GRAB BAR INTERFERENCE.
- TOILET SEAT HEIGHT TO BE BETWEEN 17" - 19" OFF FLOOR.

2 P-300 ADA COMPLYING WATER - CLOSET INSTALLATION

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTION SIZE (IN)				DFU		CWFU	HWFU	TOTAL WSFU		MANUFACTURER	MODEL NO.	REMARKS
		WASTE	VENT	CW	HW	FIXTURE	TOTAL	FIXTURE	FIXTURE	FIXTURE	TOTAL			
EDF-1	ELECTRIC DRINKING FOUNTAIN - SURFACE MOUNTED, SINGLE BASIN, BOTTLE FILLER	1 1/4"	1 1/4"	1/2"	0"	0.5	0.5	0.5	0	0.5	0.5	ELKAY	EZS8WSLK	ADA COMPLIANT, SINGLE BOWL, DRINKING FOUTAIN TO BE PROVIDED WITH BOTTLE FILLING STATION.
ES-1	COMBINATION EYEWASH AND SHOWER	1 1/4"	1 1/4"	1/2"	1/2"	0	0	2	2	3	6	GUARDIAN EQUIPMENT	G1991	STAINLESS STEEL, EMERGENCY SHOWER WITH PULL HANDLE. PROVIDE G6040 THERMOSTATIC MIXING VAVLE.
FD-1	FLOOR DRAIN	4"	2"	0"	0"	6	18	0	0	0	0	SIOUX CHIEF	832	CAST IRON, CAULK RIM TO ADJACENT FLOOR MATERIAL.
L-1	LAVATORY - WALL MOUNT, VITREOUS CHINA, ADA	1 1/4"	1 1/4"	1/2"	1/2"	1	1	1	1	1.5	1.5	ELKAY	LRAD1716PD	SINGLE BOWL DROP IN SINK, FAUCET TO BE ZURN Z6915-XL, AUTOMATIC, .5 GPM,PROVIDE WITH ASSE APPROVED TMV.
L-2	WASH FOUTAIN - SEMI CIRCULAR	1 1/2"	1 1/4"	1/2"	1/2"	2	2	1.5	1.5	3	3	ACORNS	3422ES	STANLESS STEEL, WALL MOUNTED HALF FOUTAIN, PROVIDE WITH 2 FAUCETS. AUTOMATIC, HARDWIRED, 0.5 GPM, PROVE WITH ASSE APPROVED TMV.
TD-1	TRENCH DRAIN - GARAGE	3"	2"	0"	0"	40	40	0	0	0	0	ZURN	Z886	66'-8" LONG, 6" WIDE MODULAR HIGH DENSITY POLYETHLENE TRENCH WITH 6" WIDE RECELDUCTION IRON SLATED GRATE.
WC-1	WATER CLOSET - FLOOR MOUNT, ADA	3"	1 1/2"	1/2"	0"	6	6	3	0	3	3	ZURN	Z5655-BWL	ADA COMPLIANT, FLOOR MOUNTED WATER CLOSET. FLUSH VALVE TO BE Z6000AV, 1.28 GPF. PROVIDE WITH OPEN FRONT SEAT.
TOTAL							67.5				14			

GAS FIRED WATER HEATER SCHEDULE

TAG	DESCRIPTION	LOCATION	STORAGE (GAL)	RECOVERY CAP. (100 F RISE)	GAS INPUT (MBH)	ELECTRICAL DATA				FLUE CONNECTION DIA. (IN)	CA INTAKE DIA. (IN)	MANUFACTURER	MODEL NO.	WEIGHT (LBS)	REMARKS
						VOLTS	PHASE	HZ	AMPS						
GWH-106	GAS WATER HEATER	MECHANICAL 106	50.0	118.0	76	120	1	60	5	4	4	AO SMITH	BTX-80	250	ALL

REMARKS

1. GAS CONNECTION 3/4", WATER CONNECTION 1-1/2", AIR INLET CONNECTION 3", VENT CONNECTION 3".
2. UNIT IS TO USE NATURAL GAS CONNECTION AND USE DOWN FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL CALIBRATION ON START UP.
3. WATER HEATER SHALL HAVE A FOAM INSULATION AND A CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE.
4. UNIT SHALL USE A CONCENTRIC KIT WITH PART NO. 9003910105 PRIOR TO PENETRATING ROOF. 4" PVC PIPES SHALL BE USED FOR POWER DIRECT - VENTING UP THROUGH ROOF.
5. EQUIVALENT DISTANCE OF VENT PIPES SHALL NOT EXCEED 120 FEET. PROVIDE MESH WIRE SCREEN FOR VERMIN CONTROL.
6. PROVIDE 4" LEG KIT TO MEET NSF REQUIREMENTS. STANDARD CONTROLS TO INCLUDE ADJUSTABLE T-STAT, ELECTRONIC IGNITION, EMERGENCY GAS CUT-OFF AND PRESSURE REGULATOR.
7. UNITS TO HAVE DROP PAN THAT IS TO BE DRAINED TO THE NEAREST FLOOR DRAIN.

CIRCULATION PUMP SCHEDULE

TAG	LOCATION	TYPE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
					RPM	HP	V	PH	HZ				
RCP-1	MECHANICAL 106	RECIRCULATION	10	25	1750	0.17	120	1	60	17	BELL AND GOSSET	PL-45	ALL

REMARKS

1. LABEL ALL PUMPS.
2. INLINE PUMPS ARE TO BE SUPPORTED BY PIPING, AND/OR HUNG UNINSTRUCTED WITH VIBRATION ISOLATION HANGING RODS.
3. CONTRACTOR SHALL VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITION.

INTERCEPTOR SCHEDULE

TAG	LOCATION	SERVICE	TYPE	FLOW (GPM)	MANUFACTURER	MODEL NO.	REMARKS
IN-1	WELDING 105	WELDING BOOTHS	SPECIAL PURPOSE	12	JAY R SMITH	8740	ALL

REMARKS

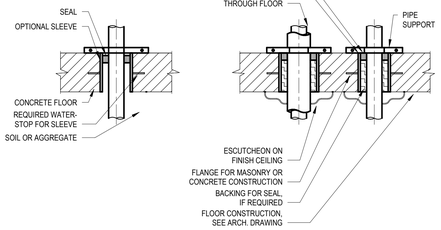
1. INTERCEPTOR TO BE STAINLESS STEEL.

LISTED FIRE-STOP SYSTEM SHALL BE ON FIRE-RESISTIVE CONSTRUCTION. INSTALLATION SHALL COMPLY WITHIN THE LIMITATION OF THE LISTING AND MEET REQUIRED F-RATING AND T-RATING.

WATERTIGHT SEAL SHALL BE REQUIRED FOR PENETRATION THROUGH FLOOR AGAINST SOIL OR AGGREGATE.

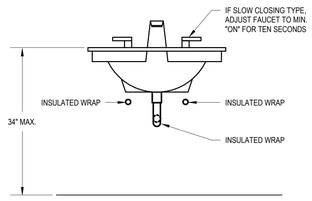
SMOKE BARRIERS AND ALL OTHER PENETRATIONS, PROVIDE SEAL AS INDICATED IN SPEC.

SEE SPEC. FOR CUTTING, PATCHING, PENETRATION SEAL, SLEEVES, EXCAVATION AND BACKFILLING.



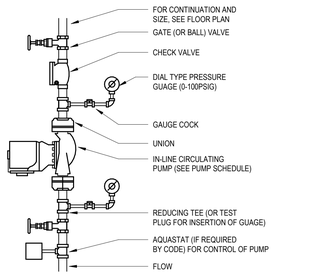
3 P-300 FLOOR PENETRATION

3/4" = 1'-0"



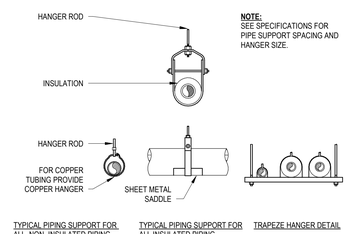
4 P-300 ADA COMPLYING LAVATORY INSTALLATION

NOT TO SCALE



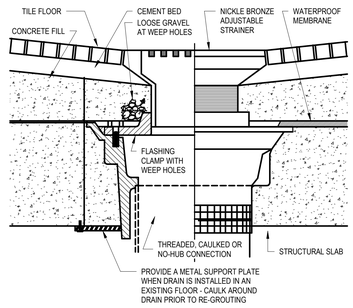
6 P-300 CIRCULATING PUMP DETAIL

NTS



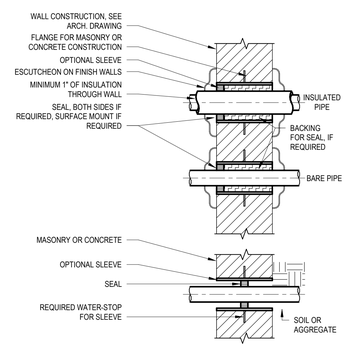
5 P-300 PIPE SUPPORT

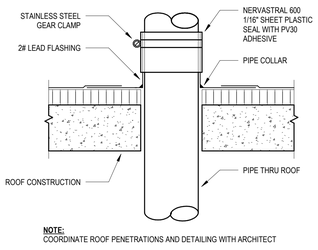
NOT TO SCALE



7 P-300 TYPE C FLOOR DRAIN DETAIL

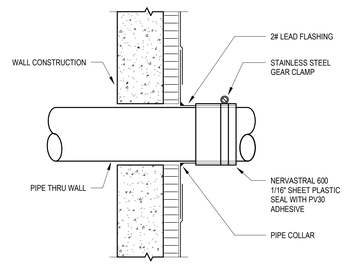
NOT TO SCALE





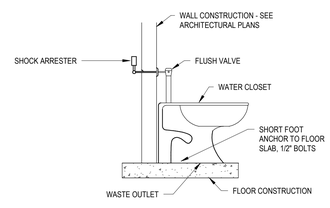
8 P-300 VENT THRU ROOF DETAIL

NTS



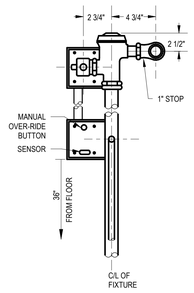
9 P-300 VENT THRU WALL DETAIL

NTS



10 P-300 FLOOR MOUNTED WATER CLOSET

SCALE: N.T.S.



11 P-300 WATER CLOSET SENSOR

NOT TO SCALE

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12 P-300 WALL PENETRATIONS

1 1/2" = 1'-0"

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PLUMBING SCHEDULES AND DETAILS

P-300

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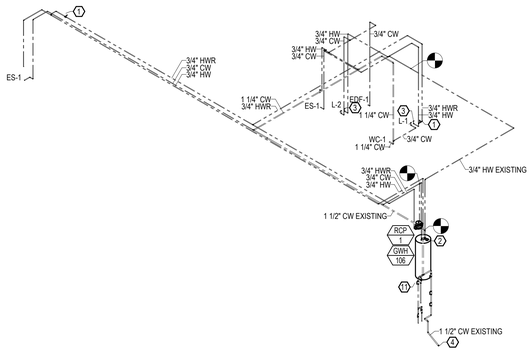
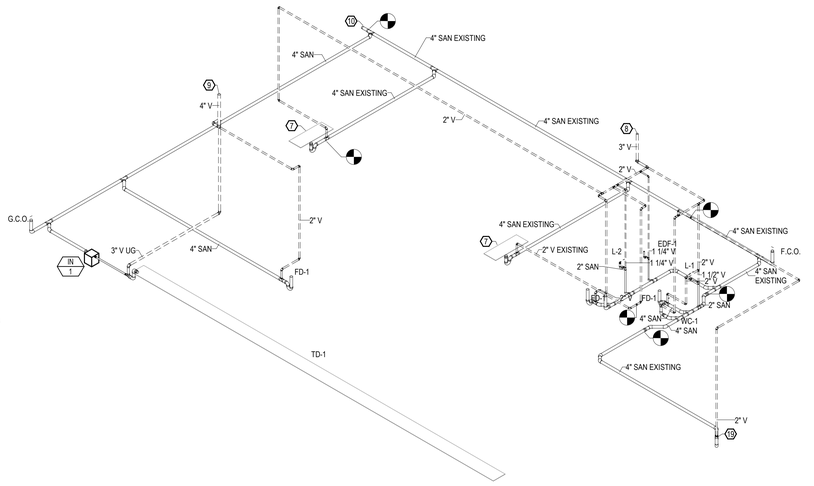
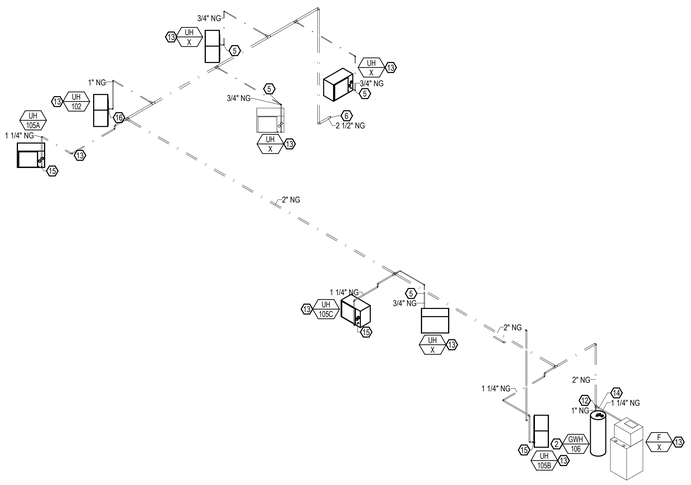


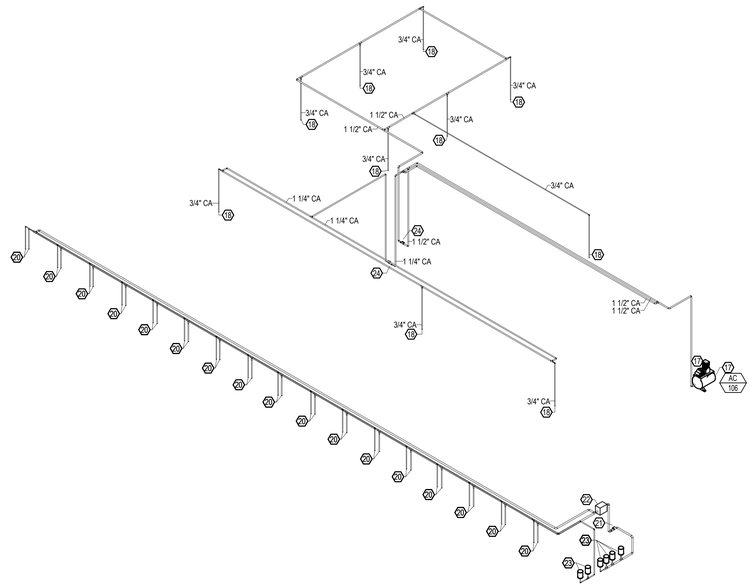
1 P-400 PLUMBING DOMESTIC WATER RISER DIAGRAM



2 P-400 PLUMBING SANITARY AND VENT RISER DIAGRAM



3 P-400 PLUMBING NATURAL GAS RISER DIAGRAM



4 P-400 PLUMBING COMPRESSED AIR AND ARGON GAS RISER DIAGRAM

#	KEYNOTES
1	INSTALL 3/4" BALANCING VALVE ON HOT WATER RETURN LINE PRIOR TO CONNECTION TO HOT WATER LINE.
2	NEW GAS WATER HEATER TO BE INSTALLED IN SAME LOCATION AS EXISTING WATER HEATER. RECONNECT EXISTING CW AND HW LINES TO NEW WATER HEATER.
3	PROVIDE A.S.S.E. 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
4	EXISTING 1-1/2"CW LINE TO CONTINUE TO CITY MAIN TO REMAIN.
5	NEW 3/4" GAS LINE TO CONNECT TO EXISTING UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
6	NEW 2-1/2" GAS LINE CONTINUE BACK TO BUILDING MAIN.
7	EXISTING TRENCH DRAIN TO REMAIN.
8	NEW 3" VENT THROUGH ROOF.
9	NEW 4" VENT THROUGH ROOF.
10	EXISTING 4" SANITARY LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL.
11	EXISTING SPRINKLER AND IRRIGATION VALVE SYSTEM TO REMAIN.
12	NEW 1" GAS LINE TO CONNECT TO WATER HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO WATER HEATER.
13	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE INFORMATION.
14	NEW 1-1/4" GAS LINE TO CONNECT TO EXISTING FURNACE. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO EXISTING FURNACE.
15	NEW 1-1/4" GAS LINE TO CONNECT TO NEW UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
16	NEW 1" GAS LINE TO CONNECT TO NEW UNIT HEATER. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO UNIT HEATER.
17	AIR COMPRESSOR SHOWN AS REFERENCE ONLY. MINIMUM OF 10 GALLON AIR COMPRESSOR, AIR DELIVERY OF 10 SCFM @ 90 PSI. 3 HP MOTOR. ELECTRICAL TO BE 208/1/60.
18	3/4" AIR HOSE DROP ROM HIGH (10 SCFM)
19	EXISTING PLUMBING FIXTURE TO REMAIN.
20	1" ARGON / CO2 GAS LINE DOWN TO SERVE WELDING TABLES. INCLUDE PRESSURE COMPENSATED FLOWMETER REGULATOR AT BASE OF DROP.
21	ARGON GAS SHUT OFF VALVE. SHUT OFF TO BE LOCATED IN LOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.
22	ARGON GAS ZONE MANIFOLD VALVE WITH PRESSURE GAUGE AND ALARM.
23	EXISTING WELDING GAS TANKS TO BE RELOCATED IN THIS LOCATION. PROVIDE EXISTING TANK SUPPORT FRAMING.
24	COMPRESSED AIR SHUT OFF VALVE. SHUT OFF TO BE LOCATED IN LOCKABLE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT.

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200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
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Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

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Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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PLUMBING RISER DIAGRAMS

P-400
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GENERAL NOTES:

1. THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.
2. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK. FURTHER DETAIL OF THE WORK THAT IS REQUIRED FOR A COMPLETE INSTALLATION, WHICH IS NOT SHOWN BECAUSE OF DRAWING SCALE, SHALL BE INCLUDED IN BASE BID.
3. FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
4. ALL PERMITS, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR THE WORK SHALL BE INCLUDED WITH THE BASE BID. THIS INCLUDES PLAN REVIEW FEE FOR ALL BACKFLOW PREVENTERS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS TO ALL PIPING AS REQUIRED WHETHER SHOWN OR NOT.
6. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
7. PROVIDE HOLES, SLEEVES, FIRE STOPPING AND PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
8. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50 WHEN TESTED WITH ASTEM E84 OR UL 723. PVC VENT PIPING PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
9. ON ALL PUBLIC LAVATORIES AND SINKS PROVIDE A.S.S.E 1070 APPROVED MIXING VALVE TO SUPPLY A MAX OF 110 DEGREE HOT WATER IN ORDER TO ENSURE SCOLDING WILL NOT OCCUR.
10. MANUFACTURER AND PRODUCT SELECTION: THE DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, AND DIMENSIONAL REQUIREMENTS OF MATERIAL AND SPECIFIC PRODUCTS. MANUFACTURERS OF PRODUCTS HAVING EQUIVALENT PERFORMANCE CHARACTERISTICS HAVE BEEN LISTED IN THE SPECIFICATION. THE USE OF ANY OF THESE EQUIVALENT PRODUCTS SHALL REQUIRE THAT THE CONTRACTOR IDENTIFY MODIFICATIONS TO ACCOMMODATE VARIATIONS IN CHARACTERISTICS, SUCH AS WEIGHTS, CONNECTIONS, SIZES, AND DIMENSIONS. THE RESPONSIBILITY FOR MODIFICATIONS TO MECHANICAL, STRUCTURAL, ELECTRICAL, OR OTHER PLUMBING SYSTEMS, OR TO ACCOMMODATE CODES SHALL BE WITH THE CONTRACTOR. COSTS RESULTING FROM THE USE OF THESE EQUIVALENT PRODUCTS SHALL BE INCLUDED WITH THE BASE BID.

INSULATION SCHEDULE:

ALL EXPOSED DUCTWORK IN CONDITIONED SPACES OR SPIRAL DUCT	1" LINED
ALL EXTERIOR DUCTWORK	MIN. R-12
ALL CONCEALED SUPPLY AND RETURN DUCT	MIN. R-6
ALL EXHAUST UP TO 10'-0" FROM DISCHARGE	MIN. R-6
ALL HEATING AND COOLING HYDRONIC PIPING	MIN. 2"
CONDENSATE PIPING	MIN. 1"

NOTE:
ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS,MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

DUCT SYSTEMS:

- BD-# — BACKDRAFT DAMPER
- FD-# — FIRE DAMPER
- SD-# — SMOKE DAMPER
- FSD-# — COMBINATION FIRE SMOKE DAMPER
- MD-# — MOTORIZED DAMPER
- VOLUME DAMPER
- SIDEWALL GRILLE
- CEILING DIFFUSER, SUPPLY 4-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN
- CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN
- CEILING DIFFUSER, RETURN
- CEILING DIFFUSER, EXHAUST
- UC — DOOR UNDERCUT
- DUCT SECTION, SUPPLY
- DUCT SECTION, RETURN
- DUCT SECTION, EXHAUST
- FLEXIBLE DUCT
- DIRECTION OF AIR FLOW
- DUCT SIZE TRANSITION
- RECTANGULAR ELBOW DOWN - SINGLE LINE
- ROUND ELBOW DOWN - SINGLE LINE
- RECTANGULAR ELBOW UP - SUPPLY
- RECTANGULAR ELBOW DOWN - SUPPLY
- ROUND ELBOW UP - SUPPLY
- ROUND ELBOW DOWN - SUPPLY
- RECTANGULAR ELBOW UP - RETURN
- RECTANGULAR ELBOW DOWN - RETURN
- ROUND ELBOW UP - RETURN
- ROUND ELBOW DOWN - RETURN
- RECTANGULAR ELBOW UP - EXHAUST
- RECTANGULAR ELBOW DOWN - EXHAUST
- ROUND ELBOW UP - EXHAUST
- ROUND ELBOW DOWN - EXHAUST
- MITERED ELBOW
- MITERED ELBOW WITH TURNING VANES
- ACCESS DOOR - TOP/SIDE
- AIR FLOW MEASURING STATION
- SOUND ATTENUATOR
- FLEXIBLE CONNECTION

HVAC SENSORS:

- CO2 — CARBON DIOXIDE
- CO — CARBON MONOXIDE
- DS — DEWPOINT
- G — GAS
- H — HUMIDITY
- NO — NITROGEN OXIDE
- P — RELATIVE PRESSURE MONITOR
- R — REFRIGERANT MONITOR
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE
- T — THERMOSTAT
- TS — TEMPERATURE

GENERAL:

- ## / EE — DRAWING KEYNOTE SYMBOL
- DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION
- DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION
- DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY
- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT
- «X» - «X» — MOUNTING HEIGHT DESIGNATION

MECHANICAL TAGS:

- VISIBLE DIMENSION
- ## x ## XX — DUCT DIMENSIONS (CLEAR, INTERNAL)
- SYSTEM ABBREVIATION

TYPE:
S - SUPPLY
R - RETURN
E - EXHAUST
T - TRANSFER

- SIZE (OPTIONAL)
- X# (# x #) / ### — DIFFUSER TAG
- AIR FLOW RATE
- MARK / NUMBER — MECHANICAL EQUIPMENT TAG
- RISER X / NUMBER — RISER TAG
- PIPE SIZE / SYSTEM ABBREVIATION — ##" XX — PIPE DIMENSION TAG
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION

MECHANICAL EQUIPMENT:

PLAN	SYMBOL	
		AIR SEPARATOR
		BASKET STRAINER
		EXPANSION TANK, FREE STANDING
		EXPANSION TANK, HANGING
		SIDE STREAM FILTER
		LOUVER
		HEAT EXCHANGER, PLATE AND FRAME
		HEAT EXCHANGER, SHELL AND TUBE
	T	STEAM TRAP
	VFD	VARIABLE FREQUENCY DRIVE
	CB	CONTROL BOX
	M	ENERGY METER
	G	NATURAL GAS METER
		PUMP (SEE SCHEDULE FOR TYPE)
		VARIABLE AIR VOLUME BOX
		VAV BOX WITH ELECTRIC REHEAT
		VAV BOX WITH HYDRONIC REHEAT
		ROUND IN / ROUND OUT VAV BOX
		FAN POWERED BOX

MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR
HUM	HUMIDIFIER
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RO	RELIEF OPENING
RPM	REVOLUTIONS PER MINUTE
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SQUARE FEET OR SUPPLY FAN
SPS	STATIC PRESSURE SENSOR
T	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TO	TRANSFER OPENING
TYP	TYPICAL
UC	UNDERCUT (DOOR)
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

GENERAL ABBREVIATIONS:

A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT
BFG	BELOW FINAL GRADE
BLDG	BUILDING
CLG	CEILING
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
F	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
HC	HEATING CONTRACTOR
HVAC	HEATING & VENTILATING - AIR CONDITIONING
HW	HEAVY WALL
ID	INDIRECT
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PLBG	PLUMBING CONTRACTOR
RM	ROOM
SURF	SURFACE
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
VC	VENTILATION CONTRACTOR

DUCT SYSTEM ABBREVIATIONS:

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

RENOVATION LEGEND:

X	EXISTING TO REMAIN
XRL	EXISTING TO BE RELOCATED
XO	EXISTING TO BE REMOVED
XNL	EXISTING IN NEW LOCATION
N	NEW

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CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
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MECHANICAL LEGEND

M-000

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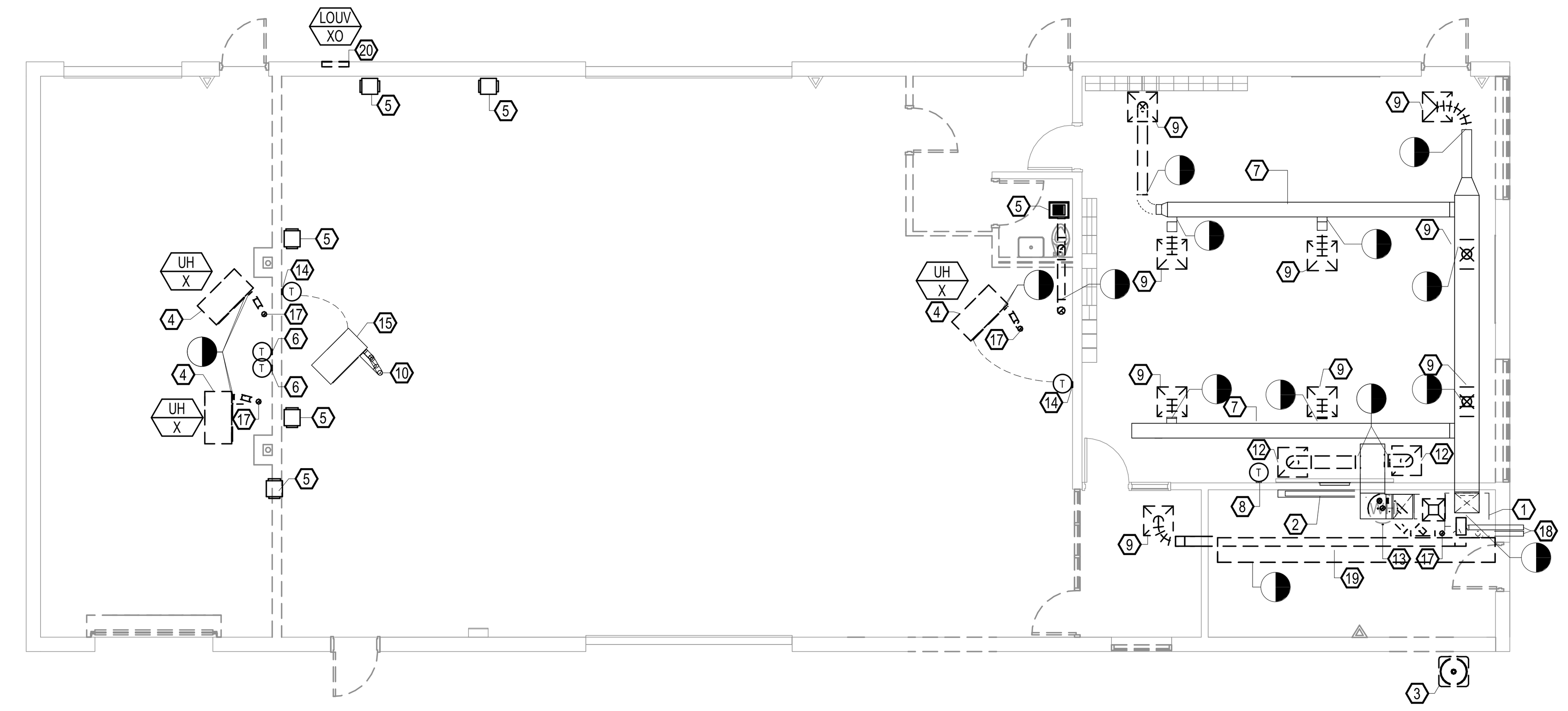
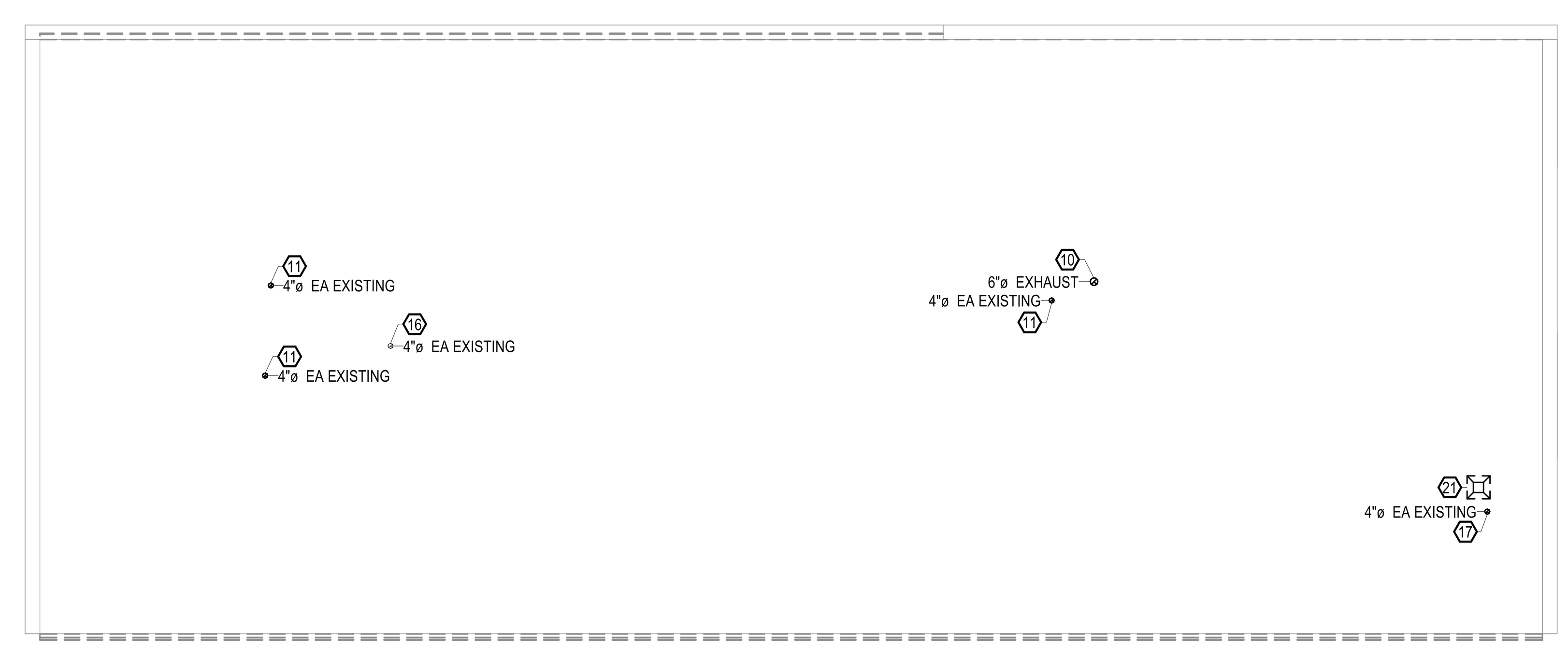


1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
MD101
1/8" = 1'-0"



2 MECHANICAL ROOF DEMOLITION PLAN
MD101
1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.

#	KEYNOTES
1	EXISTING FURNACE TO REMAIN.
2	EXISTING BASEBOARD HEATER TO REMAIN.
3	EXISTING CONDENSING UNIT TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING CONDENSING UNIT.
4	EXISTING UNIT HEATER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE HEATER. DEMOLISH ALL CORRESPONDING DUCTWORK. PATCH CEILING TO MATCH EXISTING.
5	EXISTING EXHAUST FAN TO BE DEMOLISHED ALONG WITH CORRESPONDING DUCTWORK.
6	EXISTING THERMOSTAT TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING THERMOSTAT.
7	EXISTING DUCT WORK TO REMAIN.
8	EXISTING THERMOSTAT TO REMAIN .
9	EXISTING DIFFUSER TO BE DEMOLISHED IN SUCH A WAY TO REUSE AND RELOCATE EXISTING DIFFUSER.
10	EXISTING 6" EXHAUST DUCT THROUGH ROOF TO BE DEMOLISHED IN SUCH A WAY TO ALLOW FOR NEW EXHAUST DUCT TO BE INSTALLED IN THE SAME LOCATION.
11	EXISTING 4" EXHAUST AND INTAKE FLUES THROUGH ROOF TO BE DEMOLISHED BACK TO UNIT HEATER. PATCH ROOF TO MATCH EXISTING. FIELD VERIFY SIZE AND LOCATION PRIOR TO STARTING WORK.
12	EXISTING DIFFUSER TO BE DEMOLISHED. DEMO CORRESPONDING DUCTWORK BACK TO DEMOLITION SYMBOL.
13	EXISTING WATER HEATER TO BE DEMOLISHED ALONG WITH CORRESPONDING DUCTWORK. DEMOLISH IN SUCH A WAY TO ALLOW FOR NEW EXHAUST FLUE TO BE INSTALLED IN THE SAME LOCATION. FIELD VERIFY EXISTING SIZE AND LOCATION PRIOR TO STARTING WORK.
14	EXISTING THERMOSTAT TO BE RELOCATED IN THIS LOCATION. RECONNECT TO CORRESPONDING EXISTING EQUIPMENT EXTEND CONTROL WIRES AS NEEDED.
15	EXISTING UNIT HEATER TO REMAIN .
16	EXISTING 4" EXHAUST AND INTAKE FLUES TO CONTINUE THROUGH ROOF TO REMAIN.
17	EXISTING 4" EXHAUST AND INTAKE FLUE THROUGH ROOF TO BE DEMOLISHED. DEMOLISH IN SUCH A WAY TO USE AND RELOCATE EXISTING UNIT HEATER. PATCH ROOF TO MATCH EXISTING CONDITIONS.
18	EXISTING 4" EXHAUST AND INTAKE FLUES THROUGH WALL TO REMAIN.
19	EXISTING DUCT TO BE DEMOLISHED. PATCH WALLS AND CEILINGS TO MATCH EXISTING CONDITIONS.
20	EXISTING LOUVER TO BE DEMOLISHED. PATCH WALL TO MATCH EXISTING CONDITIONS.
21	EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DEMOLISH ALL CORRESPONDING DUCTWORK BACK TO MAINS. PATH ROOF TO MATCH EXISTING CONDITIONS.

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P: 563.285.9341
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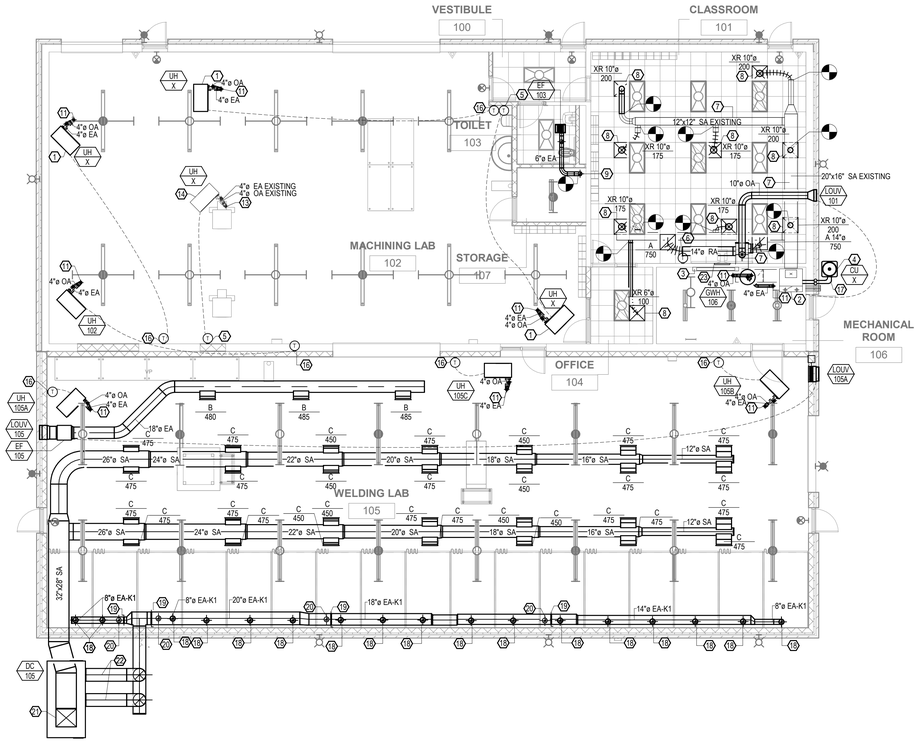
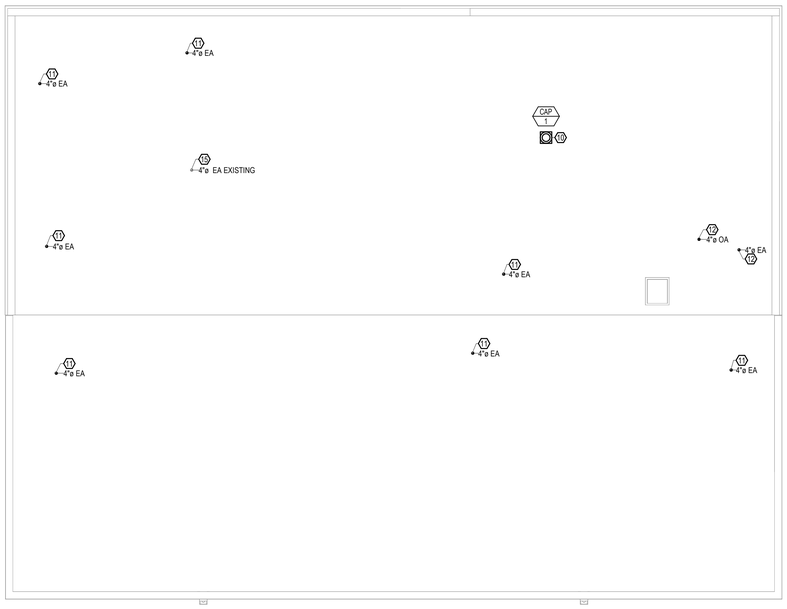
FIRST FLOOR MECHANICAL DEMOLITION PLAN

MD101
ISSUED FOR BIDDING



1 M-101 FIRST FLOOR MECHANICAL PLAN - HVAC

1/8" = 1'-0"



2 M-101 MECHANICAL ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALATION.
3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.

#	KEYNOTES
1	EXISTING UNIT HEATER TO BE RELOCATED IN THIS LOCATION. RECONNECT CONTROLS TO EXISTING RELOCATED THERMOSTAT.
2	EXISTING FURNACE TO REMAIN.
3	EXISTING BASEBOARD HEATER TO REMAIN.
4	EXISTING CONDENSING UNIT TO BE RELOCATED IN THIS LOCATION. PROVIDE HOUSE KEEPING PAD.
5	EXISTING THERMOSTAT TO BE RELOCATED IN THIS LOCATION. RECONNECT TO CORRESPONDING EXISTING EQUIPMENT EXTEND CONTROL WIRES AS NEEDED.
6	EXISTING THERMOSTAT TO REMAIN .
7	EXISTING DUCT WORK TO REMAIN.
8	EXISTING DIFFUSER TO BE RELOCATED IN NEW CEILING GRID AND RECONNECT TO EXISTING DUCTWORK.
9	NEW 6" EXHAUST DUCT THROUGH ROOF TO BE INSTALLED IN SAME LOCATION AS EXISTING.
10	NEW 6" EXHAUST DUCT THROUGH ROOF TO BE INSTALLED IN SAME LOCATION AS EXISTING. EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.
11	NEW 4" EXHAUST AND INTAKE FLUES TO CONTINUE THROUGH ROOF. EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.
12	NEW 4" EXHAUST AND INTAKE FLUES TO CONTINUE THROUGH ROOF TO TERMINATE WITH CONCENTRIC KIT. EXHAUST AND INTAKE FLUES TO BE INSTALLED IN THE SAME LOCATION AS EXISTING. SEE SHEET M-200 FOR MORE INFORMATION.
13	EXISTING 4" EXHAUST AND INTAKE FLUES TO CONTINUE THROUGH ROOF TO REMAIN.
14	EXISTING UNIT HEATER TO REMAIN .
15	EXISTING 4" EXHAUST AND INTAKE FLUES THROUGH ROOF TO REMAIN. EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES. FIELD VERIFY SIZE AND LOCATION PRIOR TO STARTING WORK.
16	NEW DDC THERMOSTATIC SENSOR AND DDC WIRING TO CONNECT TO UNIT HEATER. PUBLIC THERMOSTAT TO HAVE LOCKABLE COVER OVER IT.
17	REFRIGERANT LIQUID AND SUCTION LINES UP TO CORRESPONDING FURNACE. COORDINATE EXACT LINE SIZE WITH MANUFACTURER. SEE SHEET M-200 FOR MORE DETAILS.
18	8" EXHAUST DUCT TO CONNECT TO WELDING BOOTHS MANUAL EXHAUST DAMPER IN LINE WITH TELESCOPING EXTRACTION ARM SYSTEM. PROVIDE SUPPORTS TO MOUNT EXTRACTION ARM AT BACK OF BOOTH. DAMPER TO BE LINCOLN ELECTRIC MD-8 MANUAL DAMPER TO BE LOCATED AT TOP OF TELESCOPING ARM WITHIN REACH TO MODULATE.
19	LINCOLN ELECTRIC AD1387-6 OR EQUAL TO BE INSTALLED IN THIS LOCATION . PROVIDE DUST BIN TO BE INSTALLED WITH WALL MOUNT ABOVE WELDING BOOTH.
20	8" EXHAUST DISCHARGE DUCT TO CONNECT TO SPARK ARRESTOR AND CONNECT TO DUST BIN MOUNTED ON WALL.
21	32"X28" DUCT TO CONNECT TO TOP OF DUST COLLECTOR. COORDINATE EXACT LOCATION WITH MANUFACTURER.
22	20" EXHAUST DUCT TO CONNECT TO DUST COLLECTOR. COORDINATE EXACT LOCATION WITH MANUFACTURER.
23	EXISTING DIFFUSER TO REMAIN.

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ARCHITECT
Legat Architects
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P: 309.517.5536
www.legat.com

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www.brucebuilders.com

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DATE

REVISIONS

NO.	DESCRIPTION	DATE

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CHECKED BY	MJB

FIRST FLOOR MECHANICAL PLAN

M-101

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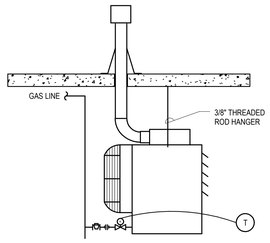
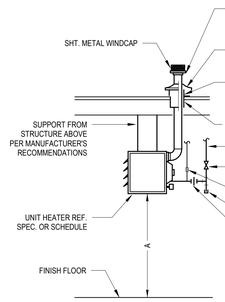


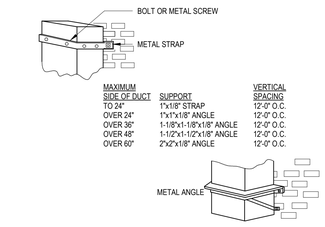
1 M-200 UNIT HEATER - GAS FIRED DETAIL

SCALE: N.T.S.



2 M-200 GAS UNIT HEATER DETAIL

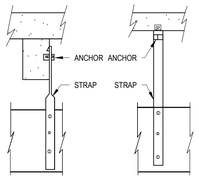
SCALE: N.T.S.



MAXIMUM SIDE OF DUCT	SUPPORT	VERTICAL SPACING
TO 24"	1"x1/8" STRAP	12'-0" O.C.
OVER 24"	1"x1"x1/8" ANGLE	12'-0" O.C.
OVER 36"	1-1/8"x1-1/8"x1/8" ANGLE	12'-0" O.C.
OVER 48"	1-1/2"x1-1/2"x1/8" ANGLE	12'-0" O.C.
OVER 60"	2"x2"x1/8" ANGLE	12'-0" O.C.

3 M-200 DUCT SUPPORT DETAIL

SCALE: N.T.S.

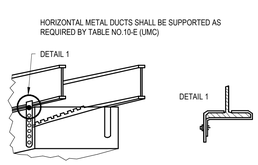


SIZING

MAXIMUM SIDE OF DUCT	STRAP SIZE	VERTICAL SPACING
TO 30"	1"x18" GA.	10'-0" O.C.
OVER 30"	1"x1/8"	10'-0" O.C.

4 M-200 DUCT SUPPORT DETAIL

SCALE: N.T.S.

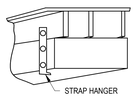


SIZING

MAXIMUM SIDE OF DUCT TO AND INCLUDING 30" OVER 30"	STRAP SIZE 1"x18" GA. 1"x1/8"	VERTICAL SPACING 10'-0" O.C. 10'-0" O.C.

5 M-200 DUCT SUPPORT DETAIL

SCALE: N.T.S.

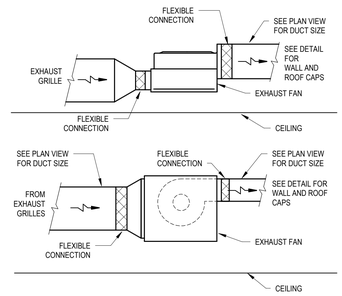


SIZING

MAXIMUM SIDE OF DUCT TO 30" OVER 30"	STRAP SIZE 1"x18" GA. 1"x1/8"	VERTICAL SPACING 10'-0" O.C. 10'-0" O.C.

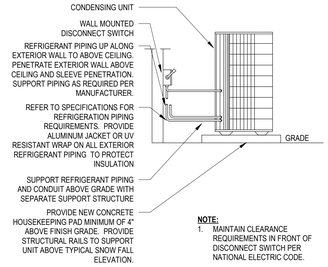
6 M-200 DUCT SUPPORT DETAIL

SCALE: N.T.S.



7 M-200 INLINE EXHAUSTER DETAIL

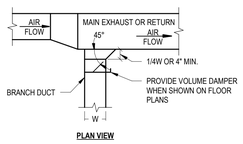
SCALE: N.T.S.



NOTE:
1. MAINTAIN CLEARANCE REQUIREMENTS IN FRONT OF DISCONNECT SWITCH PER NATIONAL ELECTRIC CODE.

8 M-200 GROUND MOUNTED CONDENSING UNIT

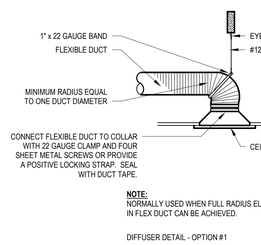
SCALE: N.T.S.



PLAN VIEW

9 M-200 EXHAUST OR RETURN BRANCH DUCTOWRK DETAIL

SCALE: N.T.S.



NOTE:
NORMALLY USED WHEN FULL RADIUS ELBOW IN FLEX DUCT CAN BE ACHIEVED.

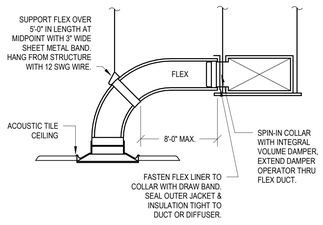
DIFFUSER DETAIL - OPTION #1

NOTE:
USED WHEN NORMAL RADIUS ELBOW CAN'T BE ATTACHED AS SHOWN IN OPTION #1.

DIFFUSER DETAIL - OPTION #2

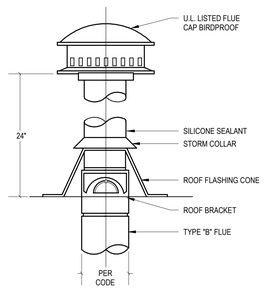
10 M-200 TYPICAL DIFFUSER AND GRILLE CONNECTIONS

SCALE: N.T.S.



11 M-200 CEILING DIFFUSER TO DUCT CONNECTION DETAIL

SCALE: N.T.S.



12 M-200 FLUE PIPE TERMINATION DETAIL

NOT TO SCALE

IMC 2012 VENTILATION SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	OCCUPANCY CLASSIFICATION	DEFAULT OCCUPANCY (#/1000 SF)	PEOPLE	IMC 2012 REQUIREMENTS				ACTUAL			EQUIPMENT	
						OA (CFM/PERSON)	OA (CFM/SF)	OA (CFM)	EA (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN
100	VESTIBULE	79 SF	VESTIBULE	0	0	0	0.00	0	0	0 CFM	0	0 CFM		-
101	CLASSROOM	774 SF	CLASSROOMS (AGE 9 PLUS)	35	20	10	0.12	293	0	1500 CFM	300	0 CFM	EXISTING	-
102	MACHINING LAB	2118 SF	WOOD/METAL SHOPS	20	20	10	0.18	581	1216	3250 CFM	600	1250 CFM	EXISTING, UH 102	EXISTING
103	TOILET	59 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	75 CFM		EF 103
104	OFFICE	81 SF	OFFICE SPACES	5	0	5	0.06	5	0	100 CFM	15	0 CFM	EXISTING	-
105	WELDING LAB	2879 SF	WOOD/METAL SHOPS	20	30	10	0.18	818	1739	4675 CFM	820	1800 CFM	UH 150A,B,C	DC 105
106	MECHANICAL ROOM	195 SF	STORAGE ROOM(INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	EXISTING	-
107	STORAGE	64 SF	STORAGE ROOM(INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	EXISTING	-
Totals								1697	3025	9625 CFM	1735	3125 CFM		

GAS FIRED HEATER SCHEDULE

TAG	LOCATION	HEATING CAPACITY AIRFLOW (CFM)	HEATING CAPACITY INPUT (MBH)	HEATING CAPACITY OUTPUT (MBH)	FUEL	ELECTRICAL DATA HP	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
UH 102	MACHING LAB	725	60	49	NATURAL GAS	0.08	115	1	60	80	MODINE	HDS60	ALL
UH 105A	WELDING LAB	1980	125	102.5	NATURAL GAS	0.13	115	1	60	125	MODINE	HDS125	ALL
UH 105B	WELDING LAB	1980	125	102.5	NATURAL GAS	0.13	115	1	60	125	MODINE	HDS125	ALL
UH 105C	WELDING LAB	1980	125	102.5	NATURAL GAS	0.13	115	1	60	125	MODINE	HDS125	ALL

REMARKS:
1. UNIT TO BE SUSPENDED FROM CEILING.
2. UNIT TO BE PROVIDED WITH THERMOSTAT TO BE PLACED IN ACCESSABLE REACH IN ROOM.
3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS TO EQUIPMENT.
4. MECHANICAL CONTRACTOR TO PROVIDE WITH MOTOR START AND BACKDRAFT DAMPER AT CONNECTION TO UNIT HEATER.

GRILLES, DIFFUSERS, AND REGISTERS SCHEDULE

TAG	AIR STREAM	MOUNTING TYPE	INLET SIZE (IN) DIA.	INLET SIZE (IN) HEIGHT	INLET SIZE (IN) WIDTH	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	MANUFACTURER	MODEL NO.	REMARKS
A	RETURN	CEILING	14"			2' - 0"	2' - 0"	GREENHECK	XG-5700	2,4
B	EXHAUST	DUCT		12"	24"	1' - 1 1/2"	2' - 1 1/2"	GREENHECK	XG-6610RSP	2,4
C	SUPPLY	DUCT		10"	24"	0' - 11 1/2"	2' - 1 1/2"	GREENHECK	XG-6002PCF	1-5
S	SUPPLY	WALL		24"	24"	2' - 1 1/2"	2' - 1 1/2"	GREENHECK	XG-4500	1-5
XR	SUPPLY	CEILING	6"			2' - 0"	2' - 0"	EXISTING	EXISTING	1,2,4-6
XR	SUPPLY	CEILING	10"			2' - 0"	2' - 0"	GREENHECK	EXISTING	1,2,4-6

REMARKS:
1. 4-WAY THROW UNLESS OTHERWISE NOTED.
2. PROVIDE ADAPTOR BOOTS AS REQUIRED.
3. PROVIDE WITH MANUAL VOLUME BALANCE DAMPER.
4. COORDINATE FRAME STYLES WITH ARCHITECTURAL PLANS.
5. REFER TO PLAN FOR FACE AND DUCT SIZING.
6. EXISTING DIFFUSER TO BE RELOCATED AND REBALANCED TO NEW CFM.

EXHAUST FAN SCHEDULE

TAG	TYPE	SERVICE	CFM	ESP (IN W.C.)	MOTOR DATA HP	RPM	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
EF-103	EXHAUST FAN	TOILET 103	75	0.43	0.01	887	120	1	60	12	GREENHECK	SP-A50-90-VG	1-3
EF-105	EXHAUST FAN	WELDING LAB 105	1450	0.20	0.13	860	120	1	60	90	GREENHECK	SQ-140	ALL

REMARKS:
1. EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS TO EQUIPMENT.
3. MECHANICAL CONTRACTOR TO PROVIDE WITH MOTOR STARTER AND BACKDRAFT DAMPER AT CONNECTION TO LOUVER OR RISER.
4. EXHAUST FAN TO CONTROL LOUVER 105, AND 105A. WHEN EXHAUST FAN TURNS ON LOUVER TO OPEN.

ROOF CAP SCHEDULE

TAG	LOCATION	CFM	DIAMETER	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
CAP-1	ROOF	75	8"	7	GREENHECK	GRSI-8	ALL

REMARKS:
1. PROVIDE BACKDRAFT DAMPER AND BIRD SCREEN AT CONNECTION TO CAP.
2. PROVIDE WITH 12" FLASH CAP CURB.
3. CAP TO HAVE A MINIMUM OF 10'-0" AWAY FROM WALL AND ANY FRESH AIR INTAKES.

DUST COLLECTOR SCHEDULE

TAG	TYPE	SERVICE	CFM	ESP (IN W.G.)	MOTOR DATA HP	RPM	V	PH	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
DC-105	GROUND MOUNT UNIT	WELDING HOODS	13000	7.00	40	3600	208	3	60	4275	LINCOLN ELECTRIC	L17587-10	ALL

REMARKS
1. PROVIDE 60"X132" HOUSE KEEPING PAD.
2. DUST COLLECTOR TO BE CONTROLLED BY SWITCH IN ROOM.
3. DUST COLLECT TO BE PROVIDED WITH CONTROL PANEL AND SILENCER.
4. DUST COLLECTOR TO BE PROVIDED WITH 3 DUST BINS.
5. DUST COLLECTOR TO BE PROVIDED WITH MERV 16 FILTER CARTRIGES.

LOUVER SCHEDULE

TAG	AIR STREAM	FLOW RATE (CFM)	FACE VELOCITY (FPM)	FREE AREA (SF)	WIDTH (IN.)	HEIGHT (IN.)	MAX PD (IN WC)	MANUFACTURER	MODEL NO.	REMARKS
LOUV 101	INTAKE	325	680	1.80	18	14	0.07	GREENHECK	ESD-632-18X14	ALL
LOUV 105	EXHAUST	1450	1000	1.40	22	22	0.15	GREENHECK	EDJ-401-22X22	ALL
LOUV 105A	INTAKE	0	800	1.80	24	24	0.10	GREENHECK	ESD-24X24	ALL

REMARKS
1. LOUVER TO BE UL LISTED.
2. LOUVER TO BE CONTROLLED BY EXHAUST FAN 105 WHEN EXHAUST FAN TURNS ON LOUVERS TO OPEN.

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SIGNATURE_____

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DRAWN BY	BMA
CHECKED BY	MJB

MECHANICAL SCHEDULES AND DETAILS

M-200

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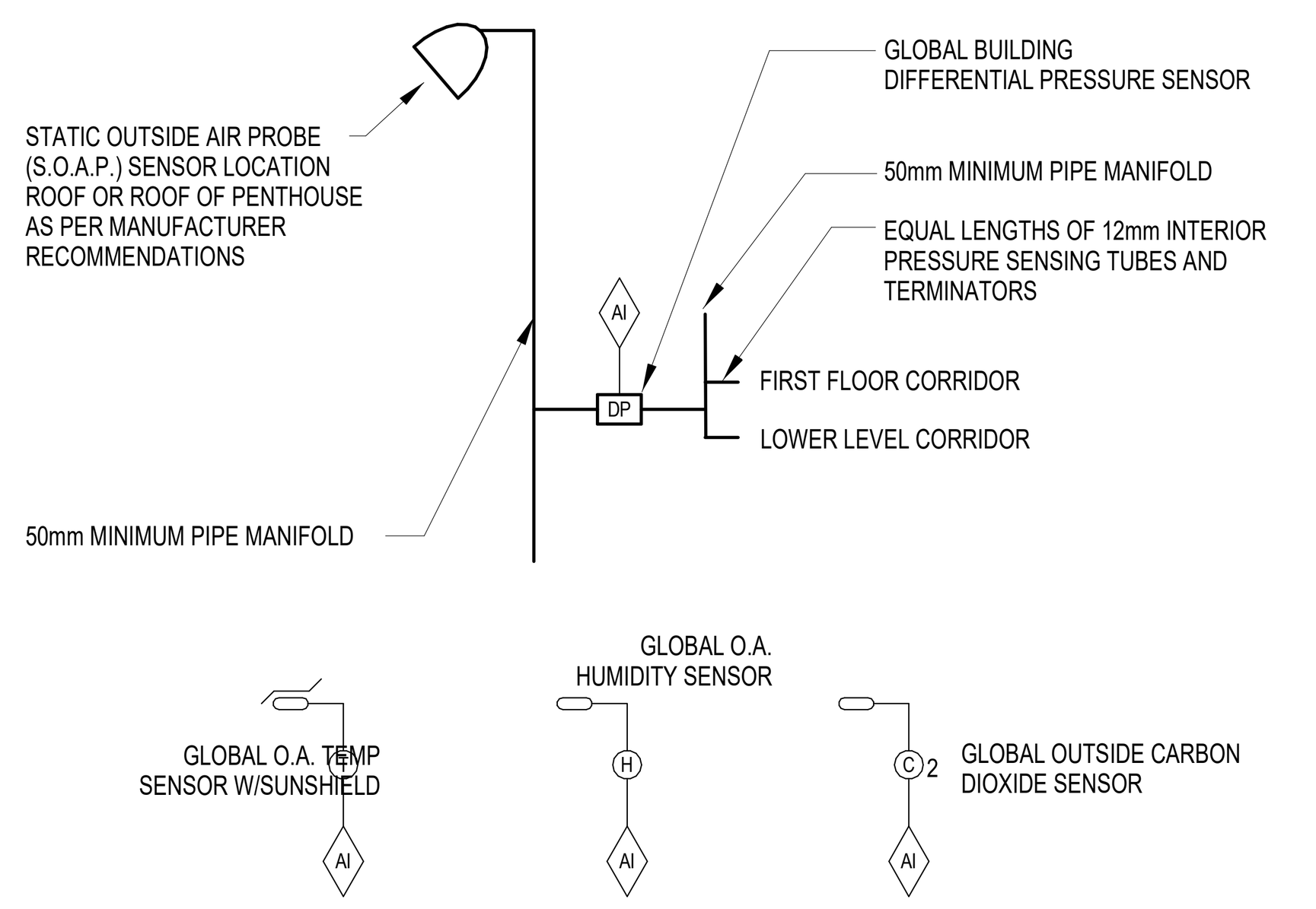


GLOBAL REFERENCE POINTS:

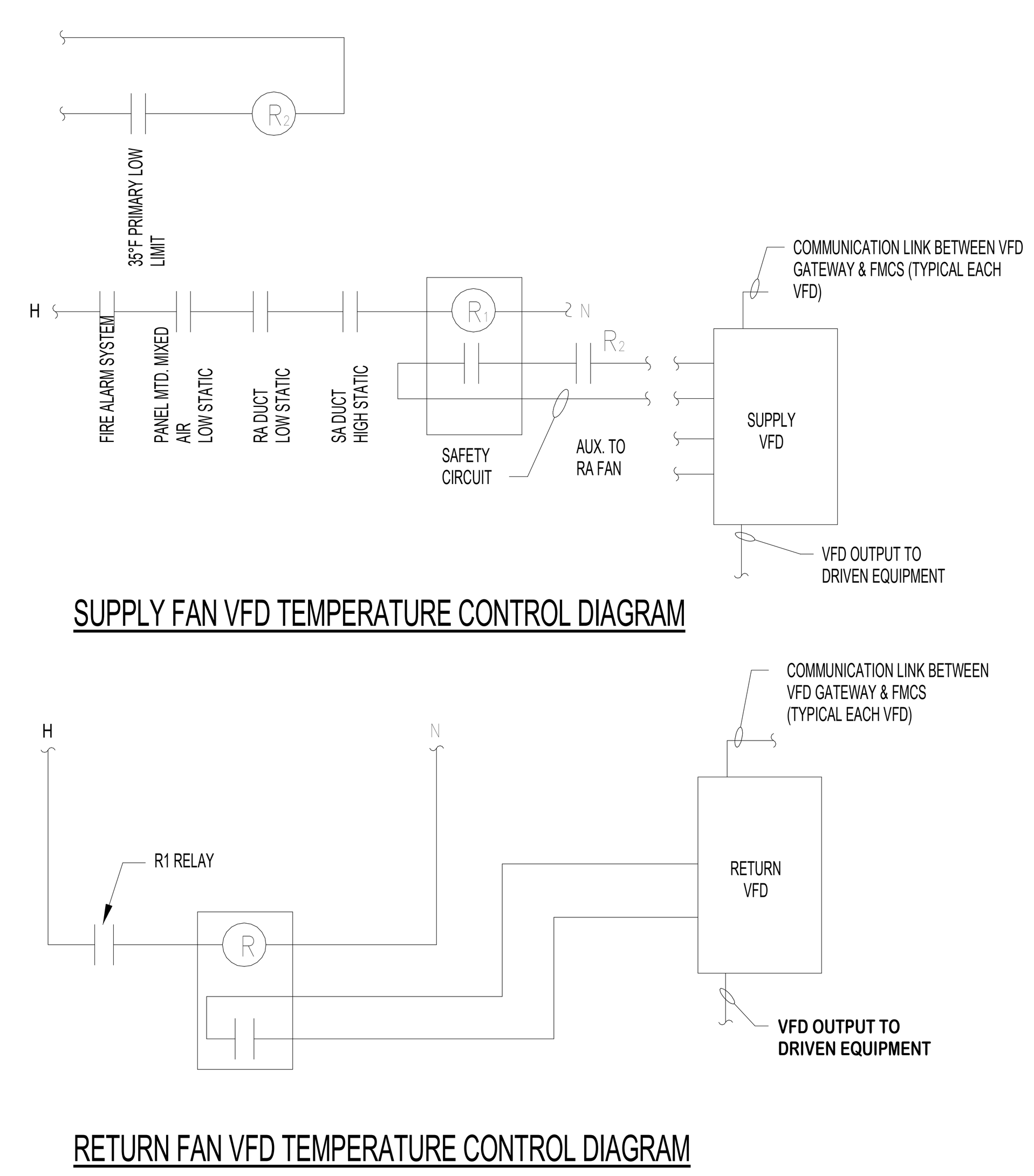
OUTSIDE AIR REFERENCE DRY BULB TEMPERATURE:
- LOCATE ON THE EXTERIOR NORTH SIDE OF THE BUILDING. LOCATION MUST BE SHADED AWAY FROM ANY HEAT SOURCE. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT/ENGINEER.

OUTSIDE AIR REFERENCE CARBON DIOXIDE:
- LOCATE ON THE EXTERIOR OF THE BUILDING. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

OUTSIDE AIR REFERENCE HUMIDITY:
- LOCATE ON THE EXTERIOR OF THE BUILDING. LOCATION TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURE. COLOR SELECTION BY ARCHITECT.

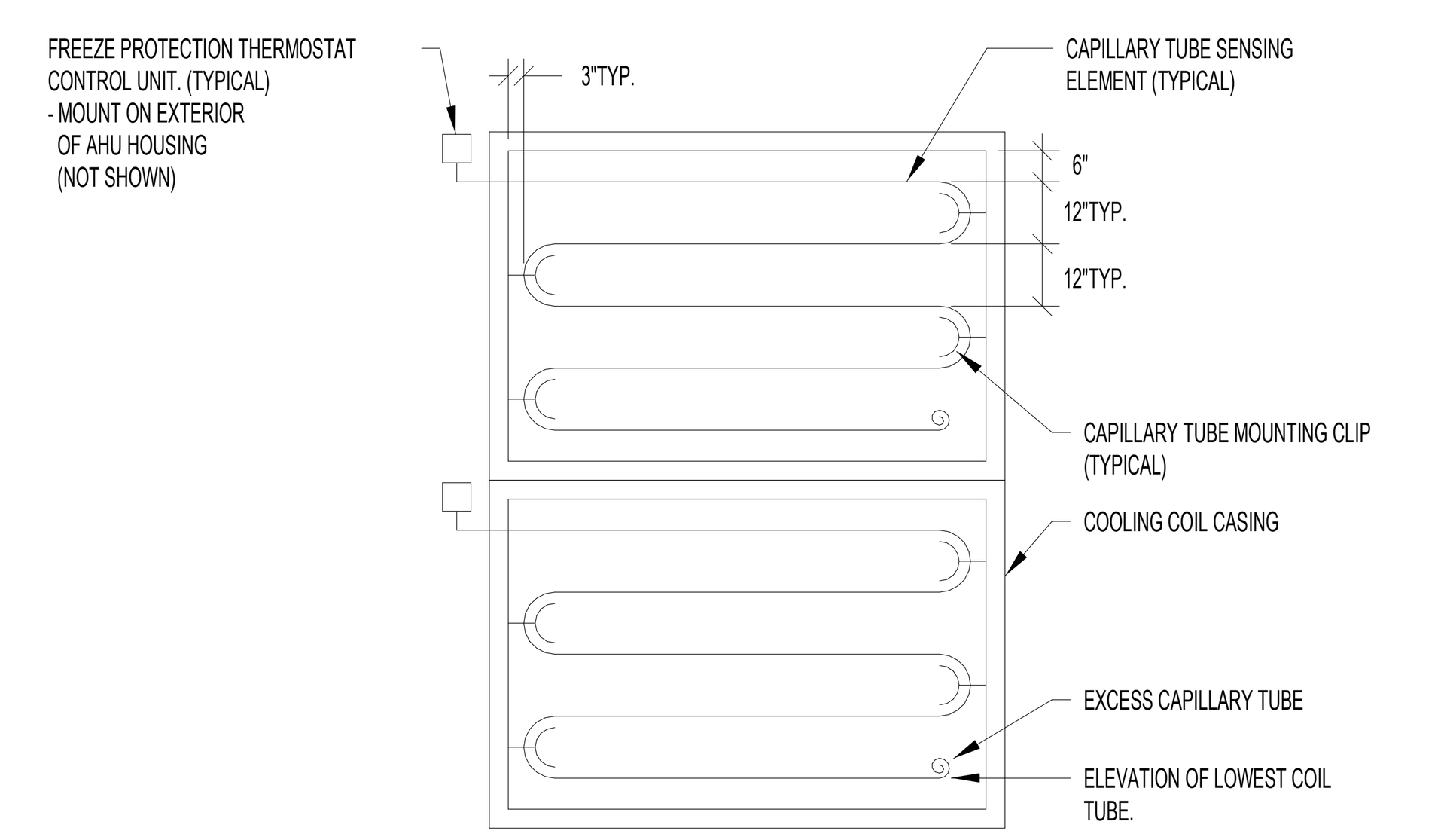
BUILDING DIFFERENTIAL PRESSURE:
- INPUTS TO THE DIFFERENTIAL PRESSURE SENSOR SHALL BE THE AVERAGE OUTSIDE AIR PRESSURE AND THE AVERAGE INTERIOR AIR PRESSURE. PIPING BY HEATING CONTRACTOR. FINAL LOCATIONS (MINIMUM 4) TO BE DETERMINED PER MANUFACTURER'S RECOMMENDATIONS AND ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL PRIME AND PAINT THE DEVICE ENCLOSURES. COLOR SELECTION BY ARCHITECT.

1 BUILDING PRESSURE SENSOR (S.O.A.P.)
NOT TO SCALE

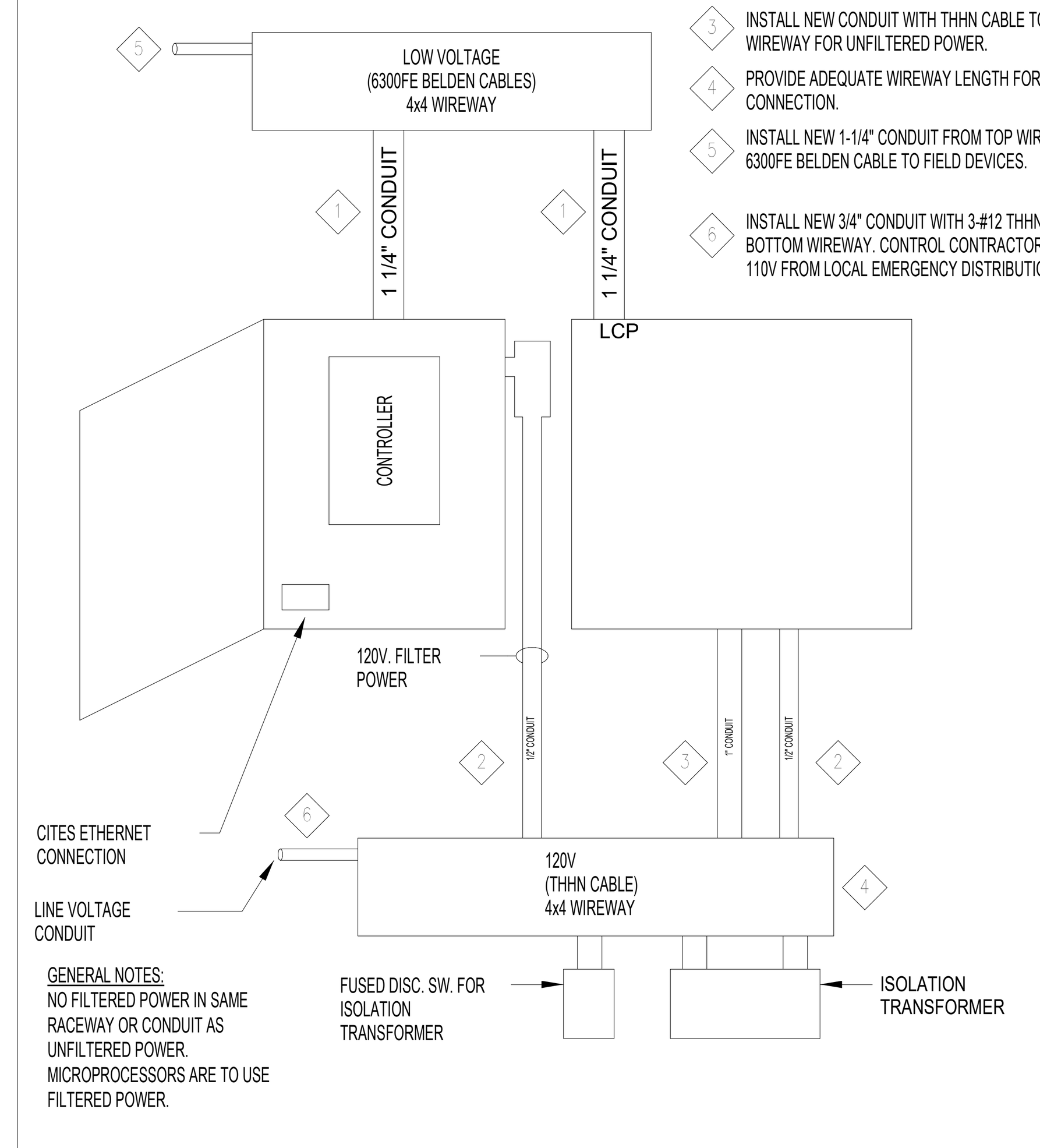


2 SUPPLY & RETURN FAN VFD SAFETY CONTROL DIAGRAM
NOT TO SCALE

NOTES:
1. INSTALL FREEZE PROTECTION THERMOSTAT (A.K.A. FREEZESTAT) CONTROL UNIT(S) ON EXTERIOR OF AIR HANDLING UNIT HOUSING.
2. SAFE OFF / SEAL SPACE BETWEEN COIL CASING AND AHU HOUSING TO PREVENT NUISANCE FREEZESTAT TRIPS.
3. INSTALL FREEZESTAT CAPILLARY TUBE SENSING ELEMENT(S) ON UPSTREAM FACE OF EACH COIL. PROVIDE COMPLETE COVERAGE SUCH THAT CAPILLARY TUBE(S) ARE WITHIN 6" OF EVERY POINT ON COIL FACE.
4. PROVIDE MULTIPLE FREEZESTAT(S) AS REQUIRED FOR COMPLETE COVERAGE OF LARGER COILS.
5. SUPPORT CAPILLARY TUBE(S) FROM SIDES OF COIL CASING USING CLIPS DESIGNED FOR THIS PURPOSE.
6. PITCH CAPILLARY TUBE(S) CONTINUALLY DOWNWARD WITHOUT SAGGING.
7. INSTALL LAST PASS OF CAPILLARY TUBE AT SAME ELEVATION AS LOWEST COIL TUBE.
8. ROLL UP EXCESS PORTION OF CAPILLARY TUBE, TIE-WRAP NEATLY AND LOCATE IN LOWER CORNER OF COIL CASING.
9. FOR PROTECTION OF CHILLED WATER COILS, PROVIDE TWO COMPLETE SETS OF FREEZE PROTECTION THERMOSTATS:
[illegible — overlapping text: SETPOINT - AUTO RESET / SETPOINT - MANUAL RESET]
10. [illegible — overlapping text] PROCEDURE OUTLINED ABOVE.



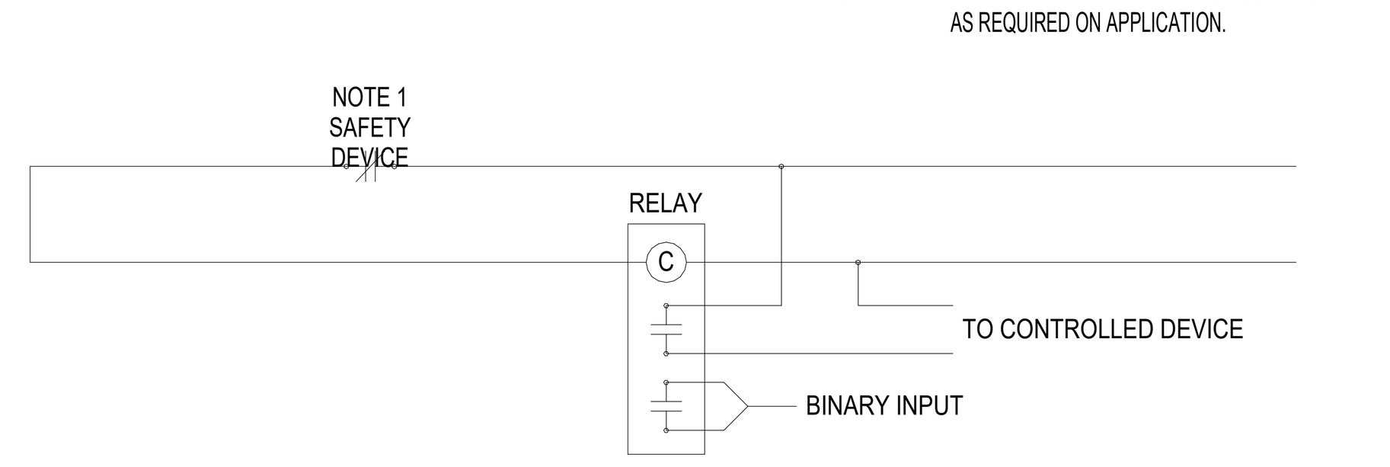
3 FREEZE PROTECTION THERMOSTAT INSTALLATION
NOT TO SCALE



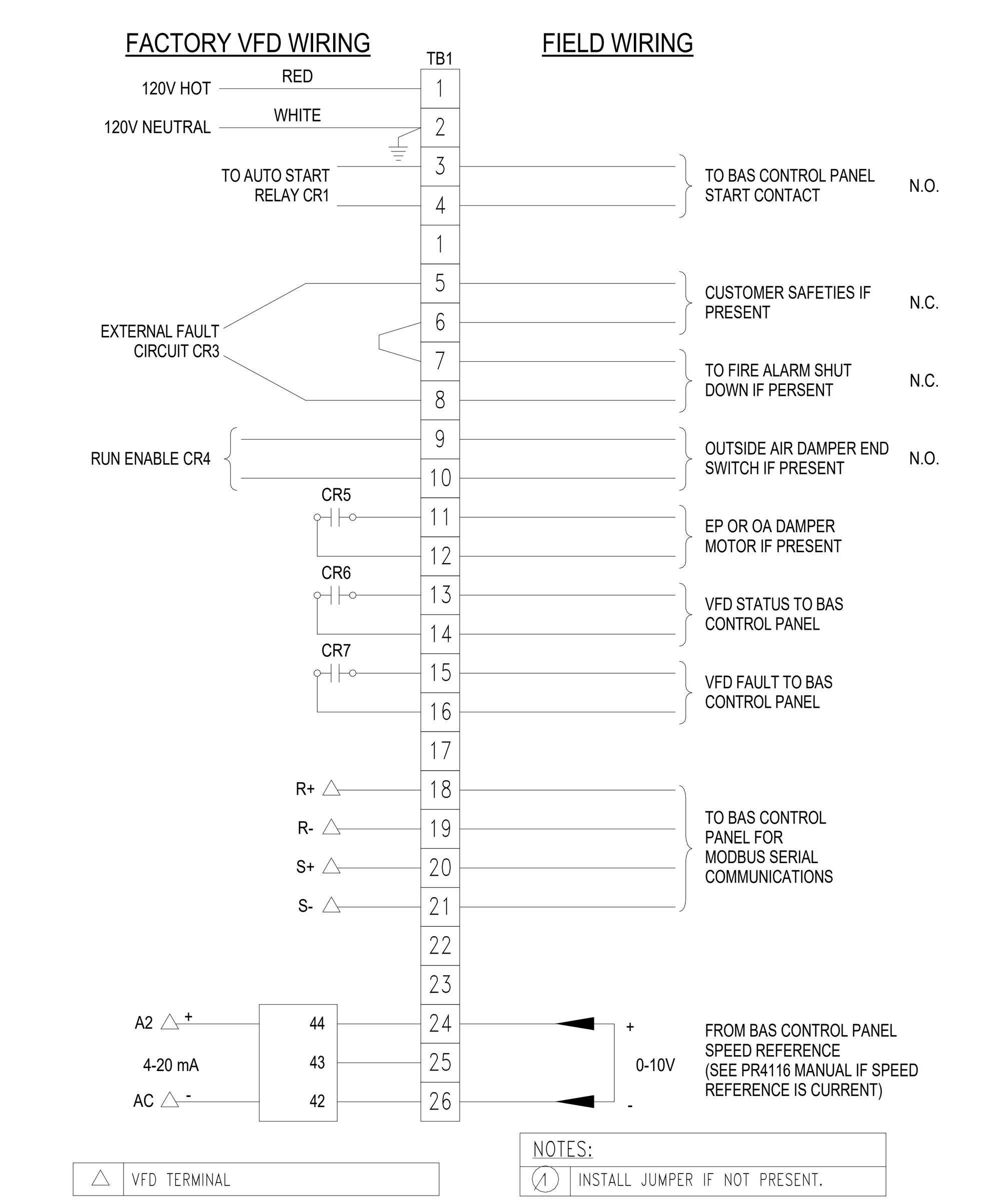
1. INSTALL NEW CONDUIT WITH 6300FE BELDEN CABLE TO TOP WIREWAY.
2. INSTALL NEW CONDUIT WITH THHN CABLE TO BOTTOM WIREWAY FOR FILTERED POWER.
3. INSTALL NEW CONDUIT WITH THHN CABLE TO BOTTOM WIREWAY FOR UNFILTERED POWER.
4. PROVIDE ADEQUATE WIREWAY LENGTH FOR FUTURE LCP CONNECTION.
5. INSTALL NEW 1-1/4" CONDUIT FROM TOP WIREWAY FOR 6300FE BELDEN CABLE TO FIELD DEVICES.
6. INSTALL NEW 3/4" CONDUIT WITH 3-#12 THHN CABLES FROM BOTTOM WIREWAY. CONTROL CONTRACTOR TO SOURCE 110V FROM LOCAL EMERGENCY DISTRIBUTION SUPPLY.

4 DDC PANEL INSTALLATION DETAIL
NOT TO SCALE

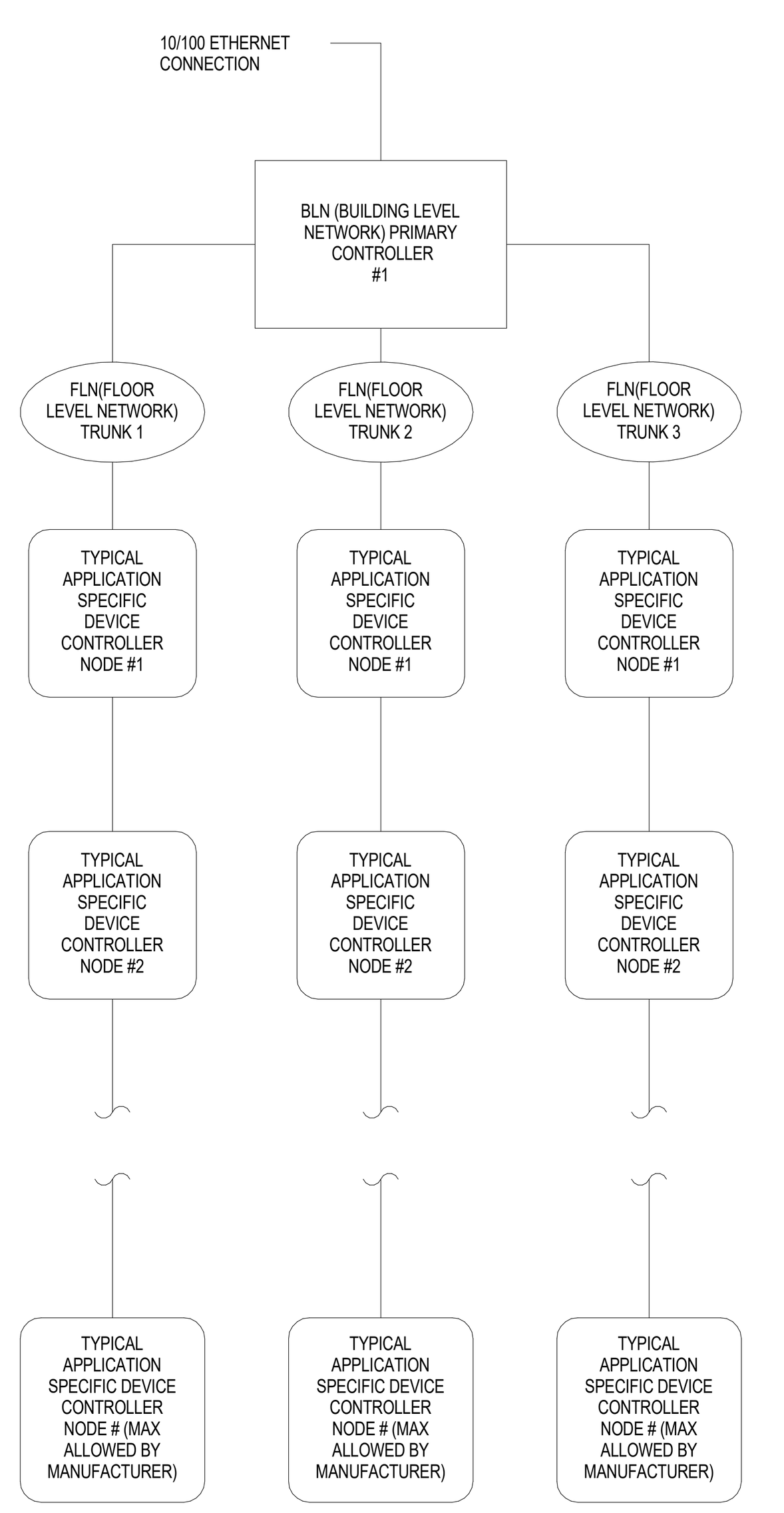
GENERAL NOTE:
1. MULTIPLE RELAYS SHALL BE ADDED TO THE CIRCUIT IN SERIES AS REQUIRED ON APPLICATION.



5 GENERAL SAFETY CIRCUIT
NOT TO SCALE



6 FACTORY VFD WIRING TO FIELD WIRING TERMINAL STRIP
NOT TO SCALE



NOTES

1. BUILDING LEVEL NETWORK. DEFINED AS A NETWORK OF NATIVE ETHERNET SDC CONTROLLERS IN A BUILDING CONTROLLING MAJOR HVAC EQUIPMENT SUCH AS AIR HANDLING UNITS, HEATING SYSTEMS, COOLING SYSTEMS ETC. THESE PANELS SHALL COMMUNICATE NATIVELY WITH EACH OTHER TO SHARE DATA WITHOUT THE NEED FOR INTERFACING WITH A SERVER FOR THE PURPOSES OF HANDLING LOCAL BUILDING CONTROLS.
2. TWO 10/100 ETHERNET NETWORK JACKS SHALL BE INSTALLED AT EACH LOCATION OF A PRIMARY CONTROLLER FOR THE PURPOSE OF CONNECTING THE PRIMARY CONTROLLER AND THE ADDITIONAL JACK FOR THE PURPOSE OF A LOCAL PROGRAMMER/OPERATOR LAPTOP INTERFACE TO THE SYSTEM FOR THE PURPOSE OF COMMISSIONING AND TROUBLESHOOTING.
3. FLOOR LEVEL NETWORKS SHALL BE A RS-485 TWISTED PAIR SHIELDED NETWORK USING EITHER AN APPROVED VENDOR SPECIFIC PROPRIETARY PROTOCOL OR BACNET MSTP (MASTER/SLAVE TOKEN PASSING) PROTOCOL. THE NUMBER OF FLOOR LEVEL NETWORKS AND NUMBER OF NODES SHALL NOT EXCEED VENDOR SPECIFIC REQUIREMENTS FOR THEIR SYSTEMS.
4. APPLICATION SPECIFIC DEVICES ARE TYPICALLY VARIABLE REFRIGERANT FREQUENCY UNITS (VRF), CABINET UNIT HEATERS (CUH), BASEBOARD HEATERS (BB), OR SECONDARY CONTROLLERS SUPPORTED OFF THE FLOOR LEVEL NETWORK COMMUNICATION BUS.
5. EACH SDC AND ASD CONTROLLER SHALL PROVIDE A PROGRAMMING / OPERATOR INTERFACE PORT FOR THE LOCAL CONNECTION OF A LAPTOP SERVICE TOOL TO ALLOW FIELD PROGRAMMING OR OPERATION OF THE SYSTEMS LOCALLY BY AN OPERATOR OR PROGRAMMER.

7 TYPICAL BAS (BUILDING AUTOMATION SYSTEM) NETWORK ARCHITECTURE
NOT TO SCALE

CONTROLS SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AI POINT NAME / POINT NAME AO	DDC POINT DESCRIPTOR WITH NAME AI - ANALOG INPUT DI - DIGITAL INPUT AO - ANALOG OUTPUT DO - DIGITAL OUTPUT	AHU OR EQ. NO. 4/10 ZONE NUMBER	ZONE DESCRIPTOR		THREE WAY CONTROL VALVE
TS1	TEMPERATURE SENSOR WITH AVERAGING ELEMENT	480V / 120V	CONTROL TRANSFORMER	ACT	DAMPER ACTUATOR
TS1	TEMPERATURE SENSOR WITH SINGLE POINT ELEMENT	MS EP1 S	RELAY COILS	AQ1	DUCT AIR QUALITY SENSOR
TS1	TEMPERATURE SENSOR WITH PIPE WELL		FUSE	HLH	HIGH LIMIT HUMIDISTAT
HS1	HUMIDITY SENSOR	OL	THERMAL OVERLOAD	TDR	TIME DELAY RELAY DELAY ON MAKE OR BREAK
FZ1	LOW TEMPERATURE SWITCH (FREEZESTAT)		NORMALLY OPEN AND NORMALLY CLOSED CONTACTS	HST	DUCT MOUNTED HUMIDISTAT
FS1	HIGH TEMPERATURE SWITCH (FIRESTAT)	HAND AUTO OFF	HAND-OFF-AUTO SELECTOR SWITCH	FOI	FIBER OPTIC INTERFACE
SD1	SMOKE DETECTOR		WIRING DESIGNATION. (NO. OF HATCHES INDICATES NO. OF CONDUCTORS)	DCS	NEW DIGITAL CONTROL STATION
				OCC	OCCUPANCY SENSOR
DPS1	DIFFERENTIAL PRESSURE SWITCH		WIRING CONNECTION		
M	MAIN AIR SUPPLY	ON-OFF	ON-OFF SELECTOR SWITCH		
IP1 O M I M	CURRENT TO PNEUMATIC TRANSDUCER	T	ROOM TEMPERATURE SENSOR AS SHOWN ON FLOOR PLANS		AIR FLOW MONITORING STATION
	TWO WAY CONTROL VALVE	HS	ROOM HUMIDITY SENSOR AS SHOWN ON FLOOR PLANS	FAR	FIRE ALARM RELAY
ST	STARTER	PS	PRESSURE SENSOR AS SHOWN ON FLOOR PLANS		THREE WAY CONTROL VALVE

SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

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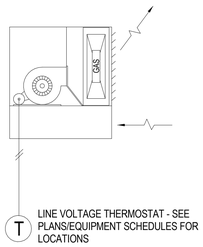
CHECKED BY	MB

CONTROLS LEGEND

M-300
ISSUED FOR BIDDING

CONTROL POINT SUMMARY FOR HEATER (TYPICAL)																							
CONTROL POINTS	DDC HARD WIRED POINTS				BAS APPLICATION							ALARMING SCENARIOS				ALARM PRIORITIES				NOTES
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	
ZONE SPACE TEMPERATURE			x		x					x					x			
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x			
NOTES:																							

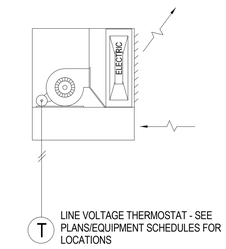


GAS HEATER CONTROL DIAGRAM

1.1 UNIT HEATER - GAS

A. GENERAL: A UNIT MOUNTED THERMOSTAT WILL CYCLE THE FAN TO MAINTAIN AN ADJUSTABLE SPACE TEMPERATURE SETPOINT.

CONTROL POINT SUMMARY FOR HEATER (TYPICAL)																							
CONTROL POINTS	DDC HARD WIRED POINTS				BAS APPLICATION							ALARMING SCENARIOS				ALARM PRIORITIES				NOTES
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	
ZONE SPACE TEMPERATURE			x		x					x					x			
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x			
NOTES:																							



ELECTRIC HEATER CONTROL DIAGRAM

1.1 UNIT HEATER - ELECTRIC

A. GENERAL: A UNIT MOUNTED THERMOSTAT WILL CYCLE THE FAN TO MAINTAIN AN ADJUSTABLE SPACE TEMPERATURE SETPOINT.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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GAS AND ELECTRIC HEATER CONTROL DIAGRM

M-301

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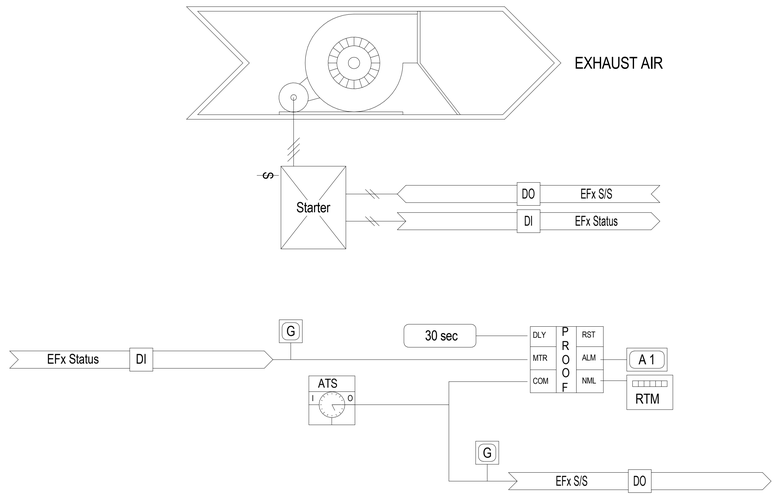
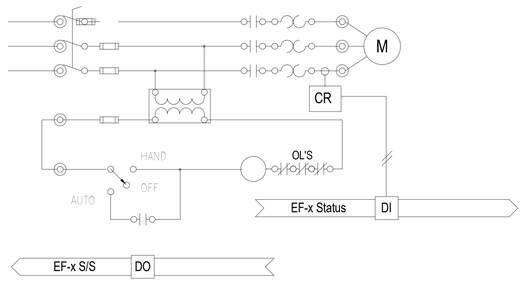
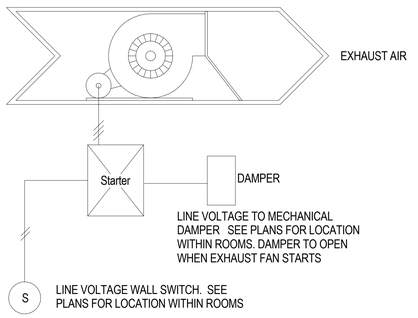


TOILET EXHAUST FAN
* EF-103



Typical Exhaust Fan Starter



WALL SWITCHED Controlled Exhaust Fan
* EF-105
*

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DESIGN | PERFORMANCE | SUSTAINABILITY

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CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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EXHAUST FAN CONTROL DIAGRAM

M-302
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SYMBOL LIST NOTE:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM FLOOR TO CENTERLINE OF DEVICE. DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO BOTTOM OF DEVICE.

PANELS:

'XXX' 'XXX' ELECTRICAL PANEL - SURFACE / RECESSED

EQUIPMENT CABINETS:

WITHOUT DOOR - SURFACE / RECESSED

WITH DOOR - SURFACE / RECESSED

'XXX' 'XXX' DENOTES THE FOLLOWING
(FAAP) FIRE ALARM ANNUNCIATOR PANEL
(FACP) FIRE ALARM CONTROL PANEL

POWER:

SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

X XXX DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED
(WP) WEATHERPROOF WITH GFI RECEPTACLE

X DENOTES CIRCUIT NUMBER

DUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - CEILING MOUNTED

NON NEMA 5-20R RECEPTACLE

QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

QUADRUPLEX RECEPTACLE - CEILING MOUNTED

X # FLOOR MOUNTED ELECTRICAL BOX

# DENOTES CIRCUIT NUMBER - TYPICAL

X INDICATES DEVICE TYPE

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

T-XX T-XX TRANSFORMER. WALL / FLOOR MOUNTED

INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD

JUNCTION BOX

PULL BOX

X PUSHBUTTON SWITCH

X DENOTES THE FOLLOWING
(F) FAN SHUTDOWN

AD AUTOMATIC DOOR OPERATOR
(SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)

GM GROUND MODULE

GROUND ROD

MARK / NUMBER EQUIPMENT TAG

MOTOR CONNECTION

TECHNOLOGY:

REFER TO TECHNOLOGY OUTLET SCHEDULE FOR DEVICE REQUIREMENTS

D# # DENOTES QUANTITY OF CAT-6A JACKS AND CABLES BACK TO NEAREST IDF
D DENOTES DEVICE TYPE
D - DATA
PH - PHONE

D# TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT.

D# TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 18" AFF UNLESS NOTED OTHERWISE.

WAP WAP WIRELESS ACCESS POINT

FREE STANDING OPEN FRAME DATA CABINET.
(HEAVY LINE INDICATES FRONT OF CABINET)

FREE STANDING ENCLOSED FRAME DATA CABINET.
FLOOR MOUNTED / WALL MOUNTED.
(HEAVY LINE INDICATES FRONT OF CABINET)

GROUND BUS BAR

TELEVISION SYSTEM

SYSTEMS:

PAGING AND SOUND SYSTEM - CEILING / WALL

CLOCK SYSTEM - CEILING / WALL

ANTENNA

LIGHTING:

NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.

CEILING MOUNTED FIXTURE - SURFACE / RECESSED

1Ra A

FIXTURE DESIGNATION (SEE SCHEDULE)

SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR

CIRCUIT NUMBER

CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED

WALL MOUNTED FIXTURE - SURFACE / RECESSED

EXIT LIGHT - WALL MOUNTED / CEILING MOUNTED
PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN

EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT - DUAL HEAD LIGHT - WALL MOUNT 12" BELOW CEILING UNLESS NOTED OTHERWISE.

SWITCHING DEVICES:

NOTE: ALL SWITCHING DEVICES SHALL BE MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

X $ XX SINGLE POLE TOGGLE SWITCH

XX DENOTES THE FOLLOWING
(2) DOUBLE POLE
(3) 3 WAY
(4) 4 WAY
(DLS) DUAL LEVEL SWITCHING
(K) KEY OPERATED
(P) WITH PILOT LIGHT INDICATION
(T) TIMER SWITCH
(M) MOTER RATED DISCONNECT SWITCH
(OV) LINE VOLTAGE OVERRIDE

X DENOTES SWITCH DESIGNATION (LOWER CASE)

LINE VOLTAGE DIMMER SWITCH

DS DAYLIGHT SENSOR.

OS OCCUPANCY SENSOR.

VS VACANCY SENSOR.

PC PHOTO CELL

SECURITY:

S S XX XX SECURITY, ACCESS CONTROL AND DOOR MOUNTING - CEILING / WALL

XX DENOTES THE FOLLOWING
(CR) CARD READER
(DR) DOOR RELEASE - PUSHBUTTON
(ES) ELECTRIC STRIKE
(KE) KEYLESS ENTRY
(KP) KEYPAD - SECURITY SYSTEM
(RM) REQUEST FOR EXIT - MOTION
(RP) REQUEST FOR EXIT - PUSH BUTTON

S S XX XX SECURITY CAMERA - CEILING / WALL. EC SHALL PROVIDE CABLING, CONDUIT, AND BACK BOX FOR DEVICE. COORDINATE REQUIREMENTS WITH OWNER.

XX DENOTES THE FOLLOWING
(4-POS) 4 POSITION CAMERA
(180) 180 DEGREE CAMERA

NOTIFICATION DEVICES:

W COMBINATION HORN-STROBE - CEILING / WALL MOUNTED

RTS REMOTE ALARM INDICATING AND TEST SWITCH

S SPEAKER - CEILING / WALL MOUNTED

W STROBE - CEILING / WALL MOUNTED

W COMBINATION SPEAKER-STROBE - CEILING / WALL MOUNTED

DETECTORS:

SS COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED

COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED

S DUCT SMOKE DETECTOR - RECTANGULAR/SQUARE

GAS DETECTOR

SMOKE DETECTOR

DOOR HOLD

P MANUAL PULL STATION

GENERAL:

DRAWING KEYNOTE SYMBOL

DETAIL NUMBER / SHEET NUMBER — BUILDING SECTION

DETAIL NUMBER / SHEET NUMBER — BUILDING ELEVATION

DETAIL NUMBER / SHEET NUMBER — CALLOUT BOUNDARY

- / --- DETAIL NUMBER / SHEET NUMBER — VIEW REFERENCE CALLOUT

+X' - X" MOUNTING HEIGHT DESIGNATION

FIRE ALARM GENERAL NOTES

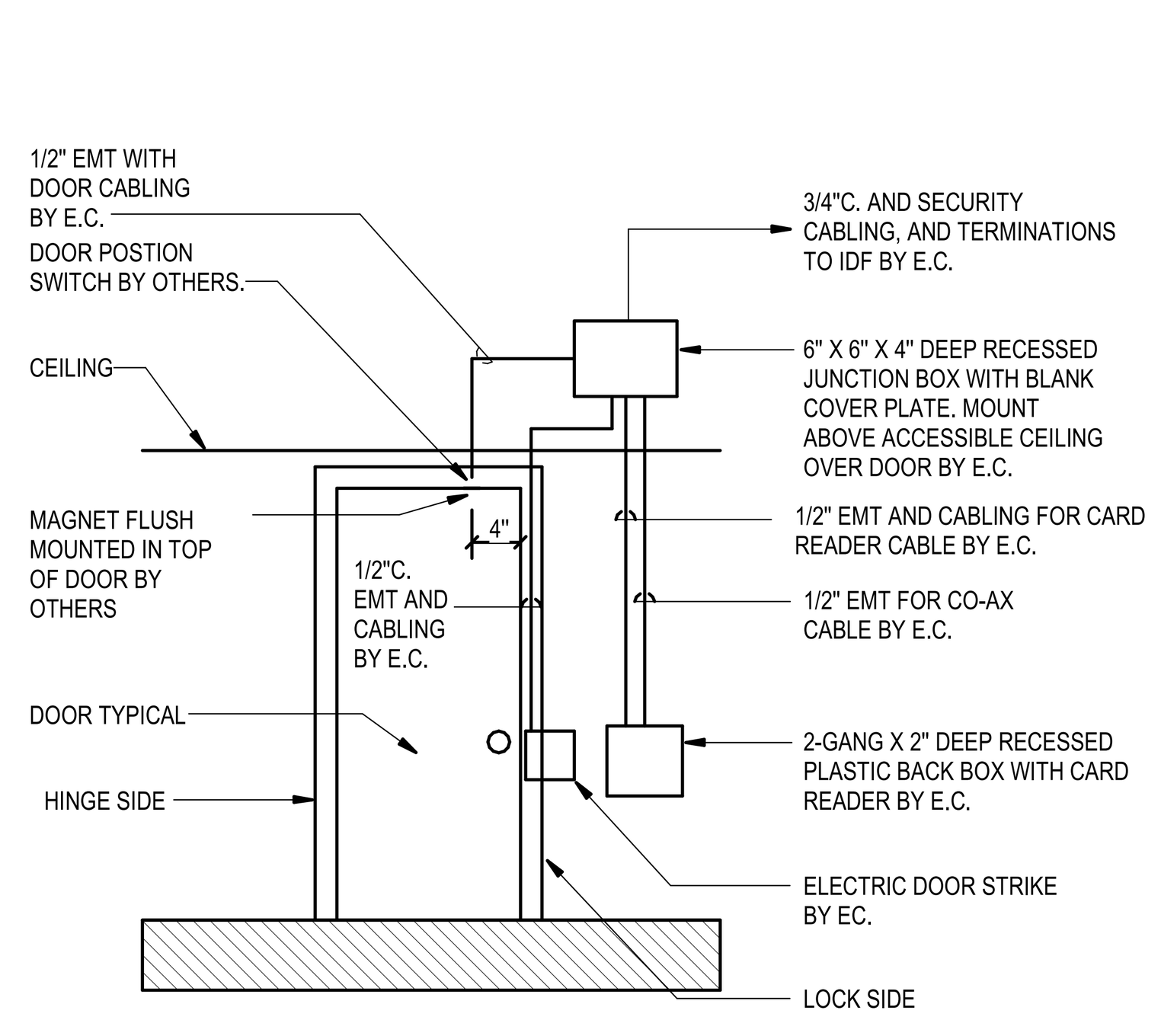
1. PROVIDE A NEW SIMPLEX FIRE ALARM SYSTEM AND INTEGRATE EXISTING FIRE ALARM SYSTEM INTO NEW FIRE ALARM SYSTEM PER IFC 2015.
2. FIRE ALARM SHALL BE DESIGN-BUILD BY CONTRACTOR. DEVICES ARE SHOWN FOR REFERENCE ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY ADDITIONAL REQUIREMENTS WITH THE FIRE MARSHALL AND ADJUST LAYOUT AS NECESSARY.
3. THE FOLLOWING FIRE ALARM DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR IS RESPONSIBLE FOR BIDDING A COMPLETE & OPERATIONAL FIRE ALARM SYSTEM THAT MEETS LOCAL CODE. PROVIDE DEVICES AS REQUIRED TO MEET LOCAL MINIMUM REQUIREMENTS & NFPA FIRE CODE.
4. CONTRACTOR IS RESPONSIBLE FOR TESTING THE SYSTEM TO CREATE A UL-LISTED, CODE-COMPLIANT FIRE ALARM SYSTEM AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
5. ALL FIRE ALARM PANELS SHALL BE AN APPROVED ADDRESSABLE TYPE.
6. A MAP INDICATING THE LOCATION OF ALL FIRE ALARM DEVICES SHALL BE POSTED DIRECTLY ADJACENT TO THE FIRE ALARM PANEL OR IN A LOCATION ACCEPTABLE TO THE FIRE PREVENTION BUREAU.
7. ALL SPEAKER/STROBE DEVICES MAY NOT BE SHOWN AS REQUIRED BY THE LOCAL JURISDICTION HAVING AUTHORITY. ALL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72, ADA, STATE & LOCAL CODES. A COMPLETE FIRE ALARM DEVICE LAYOUT SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.
8. CONDUIT & WIRING FOR ALL FIRE ALARM DEVICES TO BE RUN WITHIN COLUMNS OR WALLS WHERE APPLICABLE. ALL WIRING SHALL BE CONCEALED.
9. ALL FIRE ALARMS TO BE AUDIBLE & VISUAL, & COMPLY FULLY TO ICC/ANSI A117.1 SECTION 702. ALL VISUAL ALARMS TO BE SYNCHRONIZED THROUGHOUT.
10. DOOR LOCKS TO AUTOMATICALLY OPEN DURING A FIRE ALARM EVENT. PROVIDE ALL NECESSARY CABLING FROM THE DOOR SECURITY SYSTEM TO THE FIRE ALARM CONTROL PANEL.
11. ALL JUNCTION BOXES HOUSING FIRE ALARM CABLE SHALL HAVE A RED COVER PLATE. COVER PLATE SHALL HAVE CIRCUIT INFORMATION.
12. ALL FIRE ALARM INITIATING DEVICES AND NOTIFICATION DEVICES SHALL BE LABELED WITH CIRCUIT INFORMATION AND ADDRESSIBLE SERIAL CODE AS APPLICABLE.
13. UTILIZE WIRING SIZES AND TYPES AS REQUIRED AND RECOMMENDED BY MANUFACTURER.
14. BATTERY BACK UP SHALL BE SIZED TO COMPLY WITH CODE REQUIREMENT AND LOCAL AMENDMENTS.
15. ALL BATTERIES INSTALLED SHALL BE NEW. FIELD LABEL ALL BATTERIES WITH DATE OF MANUFACTURING.
16. PROVIDE BOOSTER POWER SUPPLIES AS REQUIRED FOR CONNECTION ALL NOTIFICATION DEVICES INDICATED IN FLOOR PLANS. CIRCUITS RATED AT 3A SHALL NOT SERVE A LOAD TO EXCEED 2.5A. INCLUDE IN THE BID SMOKE DETECTOR IN ROOM HOUSING BOOSTERS IF NOT INDICATED IN FLOOR PLANS.
17. NOTIFICATION CIRUCITS VOLTAGE DROP SHALL NOT EXCEED 5% UNLESS OTHERWISE APPROVED BY THE MANUFACTURER AND/OR AHJ.
18. SLC CIRCUITS SHALL HAVE 20% SPARE CAPACITY FOR FUTURE EXPANSION.
19. ALL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED AND SHALL COMPLY WITH ADA REQUIREMENTS. SET CANDELA RATINGS AS REQUIRED BY CODE AND/OR AS REQUIRED BY THE AHJ.
20. COORDINATE RENOVATION REMOVAL, OUTAGES, FIRE ALARM TROUBLE NOTIFICATIONS, AND ZONING REQUIREMENTS WITH AHJ. PROVIDE FIRE ALARM ADJUSTMENTS, PROGRAMMING, AND FIRE WALKS AS REQUIRED FOR RENOVATION.

ELECTRICAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	HOA	HAND-OFF-AUTO SWITCH
ABV	ABOVE	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HPS	HIGH PRESSURE SODIUM
AFG	ABOVE FINISHED GRADE	HV	HIGH VOLTAGE
AIC	AVAILABLE INTERRUPTING CURRENT	HVAC	HEATING & VENTILATING - AIR CONDITIONING
		HVC	HEATING VENTILATING CONTRACTOR
ALT	ALTERNATE	HW	HEAVYWALL
ALT SW	ALTERNATOR SWITCH	ID	INDIRECT
ARCH	ARCHITECT	IL	INTERLOCK
ATS	AUTOMATIC TRANSFER SWITCH	IMC	INTERMEDIATE METAL CONDUIT
BFG	BELOW FINAL GRADE	INC	INCANDESCENT
BKR	BREAKER	IU	IN UNIT
BLDG	BUILDING	J-BOX	JUNCTION BOX
BOL	BUILT IN OVERLOAD	LG	LAY-IN GRID
BPC	BOLTED PRESSURE CONTACT SWITCH	LTG	LIGHTING
		LV	LOW VOLTAGE
CATV	CABLE TELEVISION	LVT	LINE VOLTAGE THERMOSTAT
CB	CIRCUIT BREAKER	MAG	MAGNETIC STARTER
CCTV	CLOSED CIRCUIT TELEVISION	MAN	MANUAL STARTER
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CP	CONTROL PANEL	MLO	MAIN LUGS ONLY
CS	COMBINATION STARTER	MSB	MAIN SWITCHBOARD
CT	CURRENT TRANSFORMER	MTD	MOUNTED
DE	DUAL ELEMENT FUSES	NIC	NOT IN CONTRACT
DIR	DIRECT	NU	NEAR UNIT
DISC	DISCONNECT	OU	ON UNIT
DN	DOWN	P	POLE
EC	ELECTRICAL CONTRACTOR	PB	PUSH BUTTON
ELEV	ELEVATION REFERENCE	PC	PHOTO CONTROL
EM	EMERGENCY	PE SW	PNEUMATIC SWITCH
EMT	ELECTRIC METALLIC TUBING	PEND	PENDANT
ENT	ELECTRICAL NON-METALLIC TUBING	PLBG	PLUMBING CONTRACTOR
EOL	END OF LINE RESISTOR	PNL	PANEL
EP	EXPLOSION PROOF	R	RELAY
EWC	ELECTRIC WATER COOLER	REC	RECESS
F	FLUSH	RECEPT	RECEPTACLE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	RM	ROOM
FACP	FIRE ALARM CONTROL PANEL	RVS	REDUCED VOLTAGE STARTING
FBO	FURNISHED BY OTHERS	S	SPLINE
FDR	FEEDER	SEL SW	SELECTOR SWITCH
FIXT	FIXTURE	SP SW	SPEED SWITCH
FLA	FULL LOAD AMPS	SURF	SURFACE
FLR	FLOOR	SW	SWITCH
FLUOR	FLUORESCENT	TC	TIME CLOCK
FS	FLOW SWITCH	TCC	TEMPERATURE CONTROL CONTRACTOR
FVNR	FULL VOLTAGE NON-REVERSING	TCP	TEMPERATURE CONTROL PANEL
GC	GENERAL CONTRACTOR	TS	TAMPER SWITCH
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
GRD	GROUND	UNIV	UNIVERSAL
GYP	GYPSUM BOARD	USS	UNIT SUBSTATION
HID	HIGH INTENSITY DISCHARGE	WP	WEATHERPROOF
HOA	HAND-OFF-AUTO SWITCH	XFMR	TRANSFORMER
HP	HORSEPOWER		

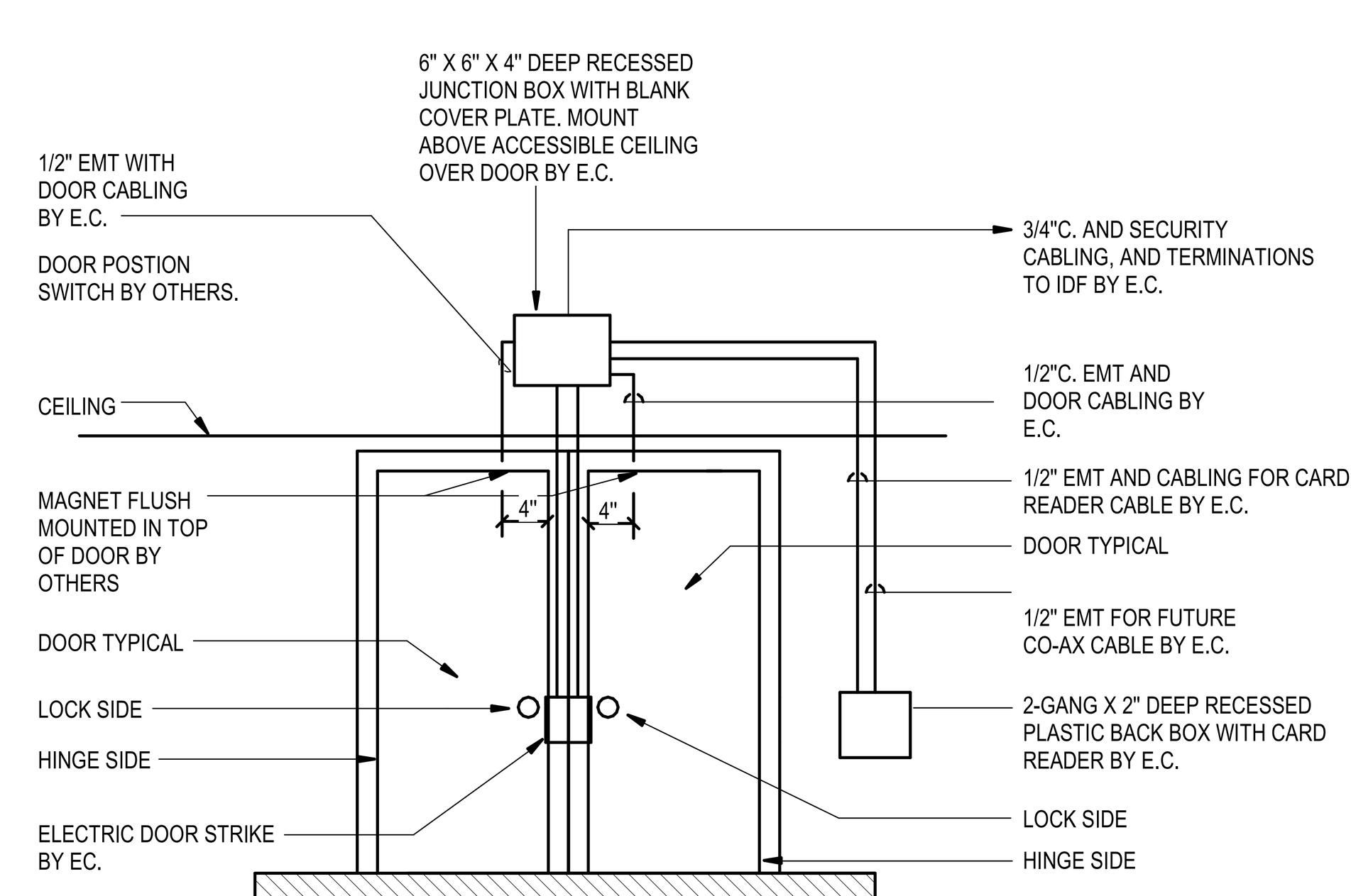
RENOVATION LEGEND

TAG	PLAN SHEET LINETYPE	ONE-LINE LINETYPE	DESCRIPTION
X	————	————	EXISTING FIXTURE TO REMAIN
XO	— — — —	—··—··—	EXISTING TO BE REMOVED
XRL	— — — —	—··—··—	EXISTING TO BE RELOCATED
N	————	————	NEW FIXTURE
XNL	————	————	EXISTING FIXTURE IN NEW LOCATION



NOTES:
1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, BOXES, AND SECURITY CABLING AND EQUIPMENT FOR CARD READER SYSTEM.
2. DOOR POSITION SWITCH, MAGNET, ELECTRIC DOOR STRIKE BY OTHERS, WIRED BY E.C.
3. SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

1 / E-000 DOOR SECURITY ROUGH-IN DETAIL
SCALE: N.T.S.



NOTES:
1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, BOXES, AND SECURITY CABLING AND EQUIPMENT FOR CARD READER SYSTEM PER DISTRICT STANDARD.
2. DOOR POSITION SWITCH, MAGNET, ELECTRIC DOOR STRIKE BY OTHERS, WIRED BY E.C.
3. SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

2 / E-000 DOOR SECURITY ROUGH-IN DETAIL
SCALE: N.T.S.

GENERAL NOTES

1. THE CONTRACTOR PROPOSING TO PERFORM THE ELECTRICAL WORK SHALL VISIT THE JOB SITE AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT AFFECT THE WORK, OR COST THEREOF, AND EXAMINE THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING HIS BID.
2. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
3. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
4. THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
5. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
6. COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
7. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
8. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY ARCHITECT.
9. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
10. POWER AND DATA DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED.
11. ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE NEW UNLESS OTHERWISE NOTED.
12. ALL FIRE ALARM SIGNAL DEVICES SHALL BE MOUNTED AT 80" AFF IN ACCORDANCE WITH ADA, UNLESS OTHERWISE NOTED.
13. DETERMINE, IN ADVANCE OF PURCHASE, THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL FIT INTO THE ROOM OR SPACE ALLOCATED, AS INDICATED ON THE DRAWINGS, ALLOWING SUFFICIENT CLEARANCE FOR THE SAFE SERVICE AND/OR MAINTENANCE OF RELATED EQUIPMENT, INCLUDING THAT OF OTHER TRADES.
14. TELEPHONE AND DATA BOXES, CONDUITS, AND WIRING/CABLE SHALL BE PROVIDED BY EC.
15. SECURITY DEVICES (SURVEILLANCE AND ACCESS CONTROL) SHALL BE PROVIDED BY NORTH SCHOOL DISTRICT AND INSTALLLED BY EC. COORDINATE ALL CAMERA LOCATIONS WITH SCHOOL DISTRICT.
16. ALL DATA, SECURITY, ADN ACCESS POINT CABLING SHALL FOLLOW DISTRICT STANDARDS. CABLE TERMINATION JACKS AND CABLING TO BE COLOR-CODED PER NORTH SCOTT SCHOOL DISTRICT'S STANDARDS. (DATA - BLUE, CAMERAS - GREEN) PROVIDE 10' SERVICE LOOPS AT END OF CABLE. DATA AND SECURITY CABLING IN BUILDING ADDITION SHALL BE PULLED TO DATA RACK IN IDF ROOM.
17. CONDUCTORS SUPPLYING CIRCUITS SHALL NOT BE LESS THAN #12 AWG COPPER FOR ANY CIRCUIT.
18. AT THE COMPLETION OF THE JOB, IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO TURN OVER TO THE BUILDING MANAGER AN AS-BUILT-DRAWING IN REPRODUCIBLE FORM. THESE DRAWINGS DO NOT HAVE TO BE MADE FROM SCRATCH. THE ENGINEER'S REFLECTED CEILING AND ELECTRICAL/TELEPHONE PLANS MAY BE USED AS BACKGROUND WITH THE ACTUAL CIRCUITING CHANGES ADDED.
19. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL J-BOX AND 3/4"C FOR MECHANICAL THERMOSTAT + CONTROLS. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
20. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE 2020 IOWA ELECTRICAL CODE AND THE LATEST REQUIREMENTS OF ALL CODES AND REGULATIONS.
21. ALL EXTERIOR RECEPTACLES SHALL HAVE METAL COVERS.
22. EC SHALL UPSIZE WIRE AND CONDUIT AS REQUIRED FOR VOLTAGE DROP, BRANCH CIRCUITS SHALL BE INSTALLED WITH A MAXIMUM OF A 3% VOLTAGE DROP, AND FEEDERS SHALL BE INSTALLED WITH A MAXIMUM OF 2% VOLTAGE DROP. NO ELECTRICAL CIRCUITS SHALL EXCEED A VOLTAGE DROP OF MORE THAN 5%.
23. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS A CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
24. ALL EXPOSED ELECTRICAL CONDUIT, CABLE, AND JUNCTION BOXES INSTALLED OPEN CEILING CEILINGS SHALL BE PAINTED. MC CABLE AND FLEXIBLE CONDUIT SHALL BE LIMITED IN EXPOSED OPEN CEILING LOCATIONS TO A '6-0" MAXIMUM LENGTH FOR INDIVIDUAL WHIPS FOR EQUIPMENT CONNECTIONS. INSTALL ALL CONDUIT, CABLE, AND JUNCTION BOXES IN A NEAT AND CONSISTENT MANNER. COLOR SELECTIONS BY ARCHITECT.
25. TYPE MC CABLE SHALL BE INSTALLED FOR BRANCH CIRCUITS IN ONLY CONCEALED LOCATIONS WITHIN THE SPACE THAT THE LIGHTING, EQUIPMENT, AND/OR RECEPTACLE DEVICES IT SERVES ARE LOCATED, UNLESS NOTED OTHERWISE.

DEMOLITON GENERAL NOTES

1. EACH CONTRACTOR SHALL REVIEW THE EXISTING SYSTEMS IN THE FIELD ALONG WITH BID DOCUMENTS & DETERMINE SELECTIVE DEMO & ADDITION OF TEMPORARY SYSTEMS (IF REQUIRED) TO MAKE PHASED DEMO & PROPOSED REMODELING. IT SHALL ASSURE UNINTERRUPTED SAFE OPERATION OF AREAS THAT ARE AFFECTED BY DEMO & ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS & COORDINATE PHASING ACCORDINGLY.
2. CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REUSED OR EXTENDED THAT IT IS IN GOOD WORKING ORDER.
3. WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK IN ORDER TO ACCOMMODATE.
4. WHERE EXISTING CONDUIT, WIRE, SUPPORTS, HANGERS & OTHER ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE DEMOLITION. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT & THE CONDUIT SHALL BE PLUGGED AT EACH END.
5. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING WAP, CLOCKS, FIRE ALARM NOTIFICATION AND DETECTION DEVICES, SECURITY CAMERAS, AND SECURITY EQUIPMENT. LIGHT FIXTURES, SWITCHES, SPEAKERS, INTERCOM EQUIPMENT, CONTROLS, CONDUIT OUTLETS, FITTINGS, AND OTHER DEVICES REMOVED AS A RESULT OF THE ALTERATIONS SHALL REMAIN THE PROPERTY OF THE OWNER (UNLESS OTHERWISE INDICATED) AND SHALL BE REUSED WHERE INDICATED.
6. EXAMINE THE CONDITION OF ANY MATERIALS AND EQUIPMENT TO MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS TO THE ENGINEER WHO WILL IN TURN MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE FOR REUSED AND RELOCATED EQUIPMENT SHALL BE NEW.
7. IN ORDER TO COORDINATE THE WORK OF THE MECHANICAL AND ELECTRICAL TRADES, REMOVE EXISTING ELECTRICAL WORK IN AND ABOVE CEILING OF THESE AREAS (AS REQUIRED). AFTER WHICH, INSTALL NEW WORK AND REINSTALL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUIPMENT SHALL BE REUSED ONLY WHERE INDICATED.
8. SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SHALL BE REROUTED & RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED, AFTER WHICH NEW WORK SHALL BE INSTALLED & TEMPORARY WIRING REMOVED.
9. ANY ELECTRICAL EQUIPMENT THAT IS TAGGED TO BE DISPOSED OF SHALL BE DONE PER APPROVED METHOD IN ACCORDANCE WITH THE CONSTRUCTION PLAN & LOCAL AUTHORITIES.
10. THIS DRAWING SHOWS A REPRESENTATIVE SAMPLE OF DEMOLITION WORK THAT IS TO TAKE PLACE. NOTE THAT NOT EVERY DEVICE AND CONDUIT ETC. REQUIRED TO BE DEMOLISHED IS NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF EXISTING WORK TO BE DEMOLISHED.
11. ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
12. DISCONNECT & REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS IN WALLS, FLOORS & CEILING SCHEDULED FOR DEMOLITION.
13. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS AND BRANCH CIRCUITS PASSING THROUGH RENOVATED AREA AND SERVING UNDISTURBED AREAS.
14. ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED OF THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT IT IS CLEAN, FREE OF DAMAGE, FREE OF CORROSION AND ADEQUATELY SUPPORTED.
15. EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SURVEYS OF EXISTING CONDITIONS THAT ARE VISIBLE DURING THE DESIGN PHASE. CONTRACTOR SHALL CONFIRM ALL SERVICES PRIOR TO PROCEEDING WITH DEMOLITION.
16. PATCH ALL HOLES IN SLABS, WALLS & CEILINGS WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL.
17. CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL & CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
18. WHERE FEEDERS OR BRANCH CIRCUITS ARE DISCONNECTED AND REMOVED FROM EXISTING PANEL BOARDS, CONTRACTOR SHALL MARK THE AFFECTED BREAKERS IN THOSE PANEL BOARDS AS "SPARE." INSTALL NEW KNOCK-OUT BLANK INSERT IN PANEL BOX.
19. VERIFY THAT REMOVAL OF DEVICES IN RENOVATED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNECTED.
20. PROVIDE ADDITIONAL CABLE AND/OR CONDUIT AND WIRE AS REQUIRED FOR EXISTING TO REMAIN DEVICES TO REMAIN FULLY OPERATIONAL AFFECTED BY DEVICES SCHEDULED TO BE REMOVED AND/OR RELOCATED. NEW CONDUIT AND WIRE CHARACTERISTICS SHALL MATCH EXISTING.

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NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE__________
DATE__________

REVISIONS

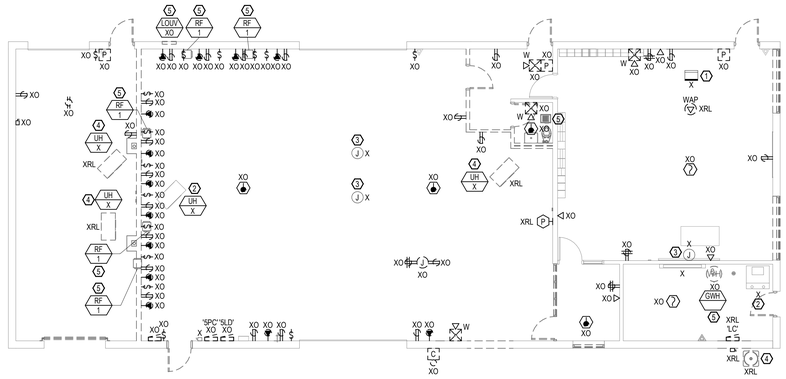
NO.	DESCRIPTION	DATE

PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	GI
CHECKED BY	NI

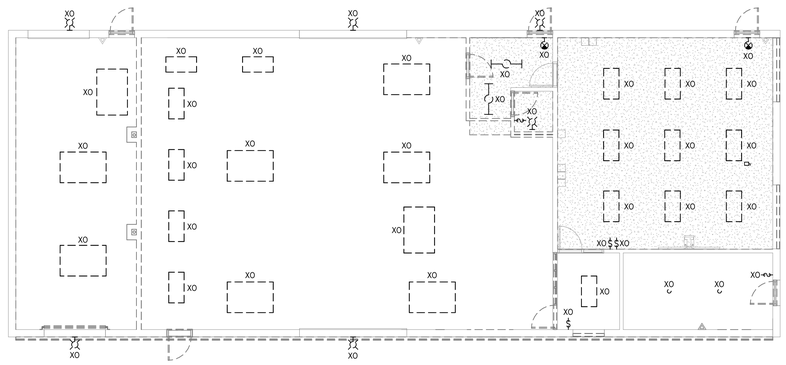
ELECTRICAL LEGEND AND GENERAL NOTES

E-000

ISSUED FOR BIDDING



1 ED101 — ELECTRICAL DEMOLITION POWER PLAN
1/8" = 1'-0"



2 ED101 — ELECTRICAL DEMOLITION LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. ALL DEVICES SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

KEYNOTES

1 EXISTING IDF MOUNTED IN EXISTING CEILING VAULT.
2 MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. RECIRCUIT EQUIPMENT TO EXISTING RELOCATED PANEL 'LC'. EXTEND CONDUIT AND FEEDERS AS NECESSARY.
3 ELECTRICAL DEVICE IS EXISTING TO BE DEMOLISHED AND REPLACED WITH NEW. RECIRCUIT EXISTING DEVICES TO NEW PANEL P2. EXTEND CONDUIT AND WIRE AS NECESSARY.
4 MECHANICAL EQUIPMENT IS EXISTING TO BE REUSED IN NEW LOCATION. RECIRCUIT EQUIPMENT TO PANEL 'P2'. EXTEND CONDUIT AND FEEDERS AS NECESSARY. RELOCATE DISCONNECTING MEAN.
5 MECHANICAL EQUIPMENT IS EXISTING TO BE REMOVED. EC TO DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS.

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RTM Engineering
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Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

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ELECTRICAL DEMOLITION PLANS

ED101

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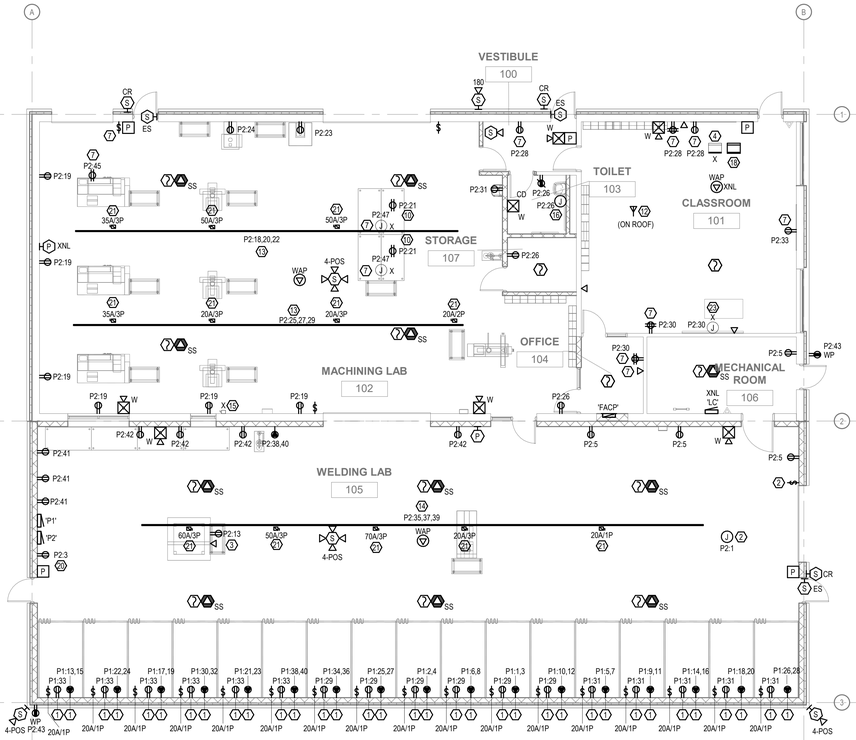
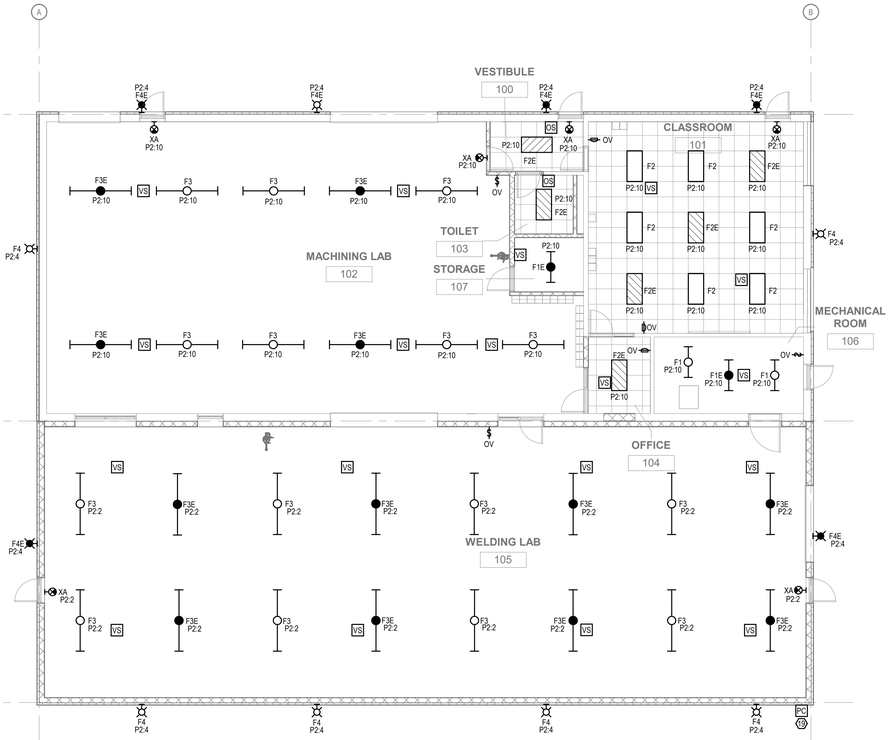
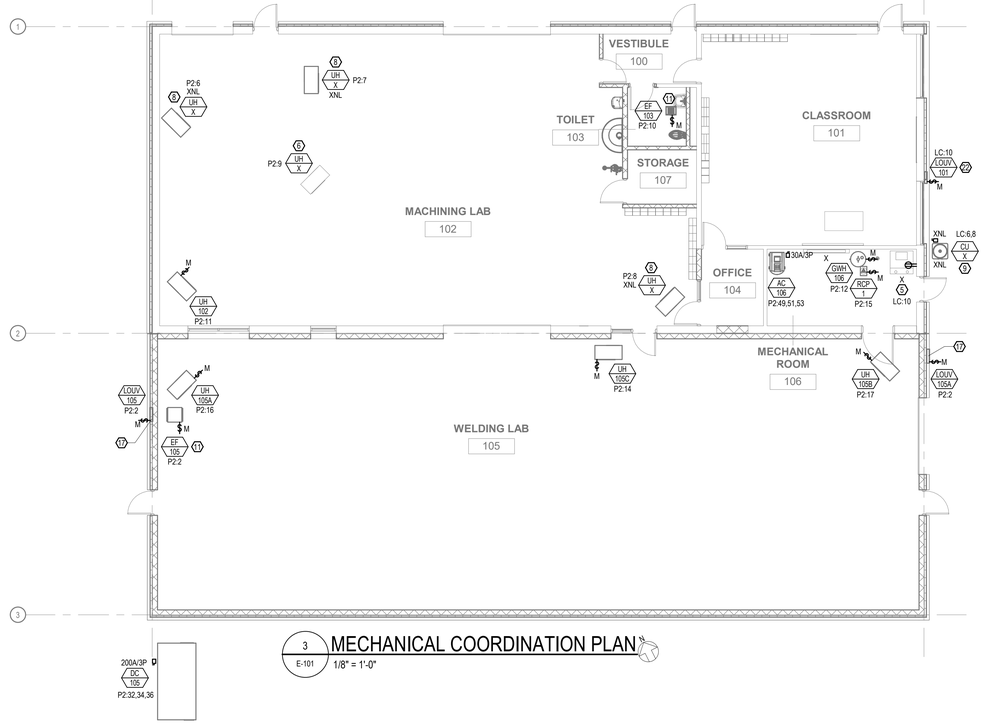


1 E-101 **ELECTRICAL POWER PLAN**
1/8" = 1'-0"



2 E-101 **ELECTRICAL LIGHTING PLAN**
1/8" = 1'-0"



3 E-101 **MECHANICAL COORDINATION PLAN**
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. PROVIDE SPEARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
3. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH DOOR PROVIDER. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000. CABLING SHOULD BE HONEYWELL GENESIS 31171012.
4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
5. ALL SECURITY DEVICES ARE OWNER PROVIDED AND CONTRACTOR INSTALLED.
6. ALL LIGHTING CONTROLS WILL BE LINE VOLATGE TYPE. FOR ALL OCCUPANCY SENSORS, PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL OCCUPANCY SENSORS, POWER PACKS, WALL OVERRIDE SWITCHES, RELAY, ETC.
7. EMERGENCY FIXTURES TO DIM AND BE CONTROLLED WITH LOCAL FIXTURES. PROVIDE NECESSARY RELAYS TO TURN FIXTURES TO 100% WITH THE LOSS OF POWER.

#	KEYNOTES
1	EC TO COORDINATE ALL WELDING STATION CONNECTIONS WITH OWNER. VERIFY ALL FINAL CONNECTION REQUIREMENTS AND LOCATIONS WITH OWNER.
2	PROVIDE ELECTRICAL CONNECTION AND CONTROLLER FOR OVERHEAD DOOR. COORDINATE CONNECTION REQUIREMENTS AND CONTROLLER LOCATION WITH DOOR PROVIDER.
3	EC TO PROVIDE ELECTRICAL CONNECTION FOR EXISTING PLASMA TABLE. VERIFY CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN. COORDINATE FINAL LOCATION WITH OWNER.
4	EXISTING IDF MOUNTED IN EXISTING CEILING VAULT.
5	MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. RECIRCUIT EQUIPMENT TO EXISTING RELOCATED PANEL 'LC'. EXTEND CONDUIT AND FEEDERS AS NECESSARY.
6	MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. RECIRCUIT EQUIPMENT TO PANEL 'P2'. EXTEND CONDUIT AND FEEDERS AS NECESSARY. KEEP EXISTING DISCONNECTING MEAN.
7	ELECTRICAL DEVICE IS EXISTING TO BE DEMOLISHED AND REPLACED WITH NEW. RECIRCUIT EXISTING DEVICES TO NEW PANEL P2. EXTEND CONDUIT AND WIRE AS NECESSARY.
8	MECHANICAL EQUIPMENT IS EXISTING TO BE REUSED IN NEW LOCATION. RECIRCUIT EQUIPMENT TO PANEL 'P2'. EXTEND CONDUIT AND FEEDERS AS NECESSARY. RELOCATE DISCONNECTING MEAN.
9	MECHANICAL EQUIPMENT IS EXISTING TO BE REUSED IN NEW LOCATION. RECIRCUIT EQUIPMENT TO EXISTING RELOCATED PANEL 'LC'. EXTEND CONDUIT AND FEEDERS AS NECESSARY.
10	REFER TO DETAIL 4/E-300 FOR CORD REEL DETAIL.
11	EXHAUST FAN IS CONTROLLED BY LIGHT SWITCH IN SPACE.
12	PROVIDE A 1" CONDUIT FOR THE OWNER PROVIDED PTP ANTENNA ON THE ROOF.
13	EC TO PROVIDE 150A RATED OVERHEAD BUSWAY.
14	EC TO PROVIDE 250A RATED OVERHEAD BUSWAY.
15	MAINTAIN AND REUSE EXISTING ELECTRICAL CONNECTION AND CONDUIT TO THE ATHLETIC BUILDING.
16	PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTION FOR PLUMBING EQUIPMENT AUTOMATIC SENSOR AND EQUIPMENT LOW VOLTAGE TRANSFORMER FOR A FULLY OPERATIONAL SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS. EC SHALL MOUNT LOW VOLTAGE TRANSFORMER FEEDING SENSORS ABOVE ACCESSIBLE LOCATION IN CEILING PROVIDED BY OTHERS IF NOT INTEGRAL TO EQUIPMENT.
17	LOUVER TO OPEN WHEN EF-105 IS ON.
18	CONTRACTOR TO INSTALL OWNER PROVIDED ACCESS CONTROL CABINET (KEYSCAN CA8500). COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SCHOOL DISTRICT.
19	PROVIDE WALL MOUNTED PHOTOCELL TO CONTROL EXTERIOR LIGHTING FIXTURES. PROVIDE ALL NECESSARY COMPONENT FOR A COMPLETE AND OPERATIONAL SYSTEM.
20	DUST COLLECTOR CONTROLLER PROVIDED BY MANUFACTURER, INSTALLED BY CONTRACTOR.
21	EC TO PROVIDE ELECTRICAL CONNECTION FROM OVERHEAD BUSWAY TAP-OFF UNIT. VERIFY CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER. EC TO COORDINATE FINAL LOCATION AND TAP-OFF UNIT SIZE WITH OWNER AND EQUIPMENT MANUFACTURERS. EC TO PROVIDE WIRE FROM TAP-OFF UNIT TO EQUIPMENT.
22	PROVIDE NECESSARY CONNECTION FOR MOTORIZED DAMPER. PROVIDE 120V:24V TRANSFORMER AS NECESSARY. COORDINATE ALL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
23	ELECTRICAL DEVICE IS EXISTING TO REMAIN. RECIRCUIT EXISTING DEVICES TO NEW PANEL P2. EXTEND CONDUIT AND WIRE AS NECESSARY.

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CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

CONSTRUCTION MANAGER
Bill Bruce Builders
900 E. Franklin
Eldridge, IA 52748
P: 563.285.9341
www.brucebuilders.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	GI
CHECKED BY	NI

ELECTRICAL PLANS

E-101
ISSUED FOR BIDDING

Branch Panel: P1

Location: WELDING LAB 105 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42kAIC
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Amps:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	WELDER (SEE NOTE 1)	55 A	70 A	2	5720 VA 5720 VA			2	70 A	55 A	WELDER (SEE NOTE 1)	2	
	3						5720 VA 5720 VA						4	
	5	WELDER (SEE NOTE 1)	55 A	70 A	2			5720 VA 5720 VA	2	70 A	55 A	WELDER (SEE NOTE 1)	6	
	7					5720 VA 5720 VA							8	
	9	WELDER (SEE NOTE 1)	55 A	70 A	2		5720 VA 5720 VA		2	70 A	55 A	WELDER (SEE NOTE 1)	10	
	11							5720 VA 5720 VA					12	
	13	WELDER (SEE NOTE 1)	53.87 A	70 A	2	5602 VA 5720 VA			2	70 A	55 A	WELDER (SEE NOTE 1)	14	
	15						5602 VA 5720 VA						16	
	17	WELDER (SEE NOTE 1)	53.87 A	70 A	2	5602 VA 5720 VA			2	70 A	55 A	WELDER (SEE NOTE 1)	18	
	19							5602 VA 5720 VA					20	
	21	WELDER (SEE NOTE 1)	76 A	100 A	2		7904 VA 5602 VA		2	70 A	53.87 A	WELDER (SEE NOTE 1)	22	
	23							7904 VA 5602 VA					24	
	25	WELDER (SEE NOTE 1)	76 A	100 A	2	7904 VA 6344 VA			2	80 A	61 A	WELDER (SEE NOTE 1)	26	
	27						7904 VA 6344 VA						28	
	29	WELDING STATION RECEPTS.	9 A	20 A	1			1080 VA 5602 VA	2	70 A	53.87 A	WELDER (SEE NOTE 1)	30	
	31	WELDING STATION RECEPTS.	7.5 A	20 A	1	900 VA 5602 VA							32	
	33	WELDING STATION RECEPTS.	9 A	20 A	1		1080 VA 7904 VA		2	100 A	76 A	WELDER (SEE NOTE 1)	34	
	35	SPACE	--	--	1			-- 7904 VA					36	
	37	SPACE	--	--	1	-- 7904 VA			2	100 A	76 A	WELDER (SEE NOTE 1)	38	
	39	SPACE	--	--	1		-- 7904 VA						40	
	41	SPACE	--	--	1			-- --	1	--	--	SPACE	42	
	43	SPACE	--	--	1	-- --			1	--	--	SPACE	44	
	45	SPACE	--	--	1		-- --		1	--	--	SPACE	46	
	47	SPACE	--	--	1			-- --	1	--	--	SPACE	48	
	49	SPACE	--	--	1	-- --			1	--	--	SPACE	50	
	51	SPACE	--	--	1		-- --		1	--	--	SPACE	52	
	53	SPACE	--	--	1			-- --	1	--	--	SPACE	54	
	55	SPACE	--	--	1	-- 0 VA			3	60 A	--	SPD	56	
	57	SPACE	--	--	1		-- 0 VA						58	
	59	SPACE	--	--	1			-- 0 VA					60	
				Total Load:		74178 VA	78844 VA	62294 VA						
				Total...		633 A	672 A	519 A						

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	3060 VA	100.00%	3060 VA	
NEC-Arc Welder	212256 VA	68.56%	145533 VA	**Total Conn. Load:** 215316 VA
				Total Est. Demand: 148593 VA
				Total Conn.: 598 A
				Total Est. Demand: 412 A

Notes:
1. EC TO PROVIDE (2)#3 AWG & (1)#8 AWG GND IN 1-1/4"C FOR ALL WELDERS.

Branch Panel: LC

Location: MECHANICAL ROOM 106 | **Volts:** 120/208 Wye | **A.I.C. Rating:** EXISTING
Supply From: P2 | **Phases:** 3 | **Type:** MLO
Mounting: Surface | **Wires:** 4 | **Bus Amps:** 100 A
Enclosure: Type 1

CB Info	CKT	Circuit Description	A...	Trip	Poles	A	B	C	Poles	Trip	A...	Circuit Description	CKT	CB Info
	1	SPACE	--	--	1	-- --			1	--	--	SPACE	2	
	3	SPACE	--	--	1		-- --		1	--	--	SPACE	4	
	5	RADON PUMP	--	20 A	1			0 VA 2350 VA	2	30 A	22.6 A	EXISTING CONDENSING UNIT	6	
	7					0 VA 2350 VA							8	
	9	EXISTING LOAD	--	40 A	3		0 VA 1920 VA		1	20 A	16 A	EXISTING FURNACE	10	
	11							0 VA 0 VA	1	20 A	--	EXISTING LOAD	12	
				Total Load:		2350 VA	1920 VA	2350 VA						
				Total Amps:		20 A	16 A	20 A						

CIRCUIT BREAKER INFORMATION LEGEND:
N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED
E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	4700 VA	100.00%	4700 VA	
Other	1920 VA	100.00%	1920 VA	**Total Conn. Load:** 6620 VA
				Total Est. Demand: 6620 VA
				Total Conn.: 18 A
				Total Est. Demand: 18 A

Notes:

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE K	LIGHT SOURCE CRI	INPUT WATTS	VOLTS	MOUNTING HEIGHT	SPECIFIED FIXTURE MANUFACTURER	SPECIFIED FIXTURE MODEL NO.
F1	UTILITY STRIP LIGHT	LED	4000	80	25	120	-	LITHONIA COLUMBIA COOPER	CLX-L48-4000LM-SEF-FDL-MVOLT-GZ1-40K-80CRI MPS4-40LW-CW-EDU 4SNX-415L-LW-UNV-L840-CD1-U
F1E	UTILITY STRIP LIGHT WITH BATTERY BACKUP	LED	4000	80	25	120	-	LITHONIA COLUMBIA COOPER	CLX-L48-4000LM-SEF-FDL-MVOLT-GZ1-40K-80CRI-E10WLCP MPS4-40LW-CW-EDU-ELL14 4SNX-415L-LW-UNV-L840-CD1-EL14W-U
F2	RECESSED 2x4 TROFFER	LED	4000	80	30	120	-	LITHONIA COLUMBIA COOPER	2BLT4-40L-ADSM-GZ1-LP835 LCAT24-40LWG-EDU 24CZ2-40-UNV-L840-CD1-U
F2E	RECESSED 2x4 TROFFER WITH BATTERY BACKUP	LED	4000	80	30	120	-	LITHONIA COLUMBIA COOPER	2BLT4-40L-ADSM-GZ1-LP835-EL14L LCAT24-40LWG-EDU-ELL14 24CZ2-40-UNV-EL14W-L840-CD-1-U
F3	LOW BAY	LED	4000	80	89	120	13' 0"	LITHONIA WILLIAMS COOPER	UFIT-L96-12000LM-SEF-MVOLT-GZ10-40K-80CRI GLN-B-L126/840-DIM-UNV 8LED-LD5-10-W-FL-UNV-L840-CD1-U
F3E	LOW BAY WITH BACKUP BATTERY	LED	4000	80	89	120	13' 0"	LITHONIA WILLIAMS COOPER	UFIT-L96-12000LM-SEF-MVOLT-GZ10-40K-80CRI, PS1055LCP GLN-B-L126/840-EM10W-DIM-UNV 8LED-LD5-10-W-FL-UNV-L840-EL14W-CD1-U
F4	EXTERIOR WALLPACK	LED	4000	80	10	120	12' 0"	LITHONIA BEACON COOPER	WDGE1 LED-P1-40K-80CRI-VF-MVOLT-SRM RWL1-48L-15-4K7-4W-UNV-*-* ENC-SA1A-U-T4W-*
F4E	EXTERIOR WALLPACK WITH BATTERY BACKUP	LED	4000	80	10	120	12' 0"	LITHONIA BEACON COOPER	WDGE1 LED-P1-40K-80CRI-VF-MVOLT-SRM-E4WH RWL1-48L-15-4K7-4W-UNV-E ENC-SA1A-U-T4W-*-CBP120
XA	WALL MOUNTED SINGLE FACE EXIT SIGN	LED	0		5	120	-	LITHONIA COMPASS EMERGI-LITE	LQM-S-W-R-120/277-EL-N CER WPREMSNXR

NOTES:
1. PROVIDE AL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. THE FIRST LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURER'S COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE ISTHE BASIS OF DESIGN. ADDITIONAL APPROVED PRODUCT SERIES LISTED MUST MEET ALL THE CHARACTERISTICS LISTED AS THE BASIS OF DESIGN FIXTURE. FINAL PRODUCT APPROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.

MOUNTING TYPE ABBREVIATIONS:
P PENDANT
R RECESSED
S SURFACE
W WALL

Branch Panel: P2

Location: WELDING LAB 105 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 42kAIC
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Bus Amps:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

CB Info	CKT	Circuit Description	Amps	Trip	Pol...	A	B	C	Pol...	Trip	Amps	Circuit Description	CKT	CB Info
	1	GARAGE DOOR	1.5 A	20 A	1	180 VA 2034 VA			1	20 A	16.95 A	LIGHTING WELDING LAB 105	2	
	3	DUST COLLECTOR CONTROL PANEL	1.5 A	20 A	1		180 VA 120 VA		1	20 A	1 A	BUILDING EXTERIOR LIGHTING	4	
	5	RECEPTS. WELDING LAB 105	6 A	20 A	1			720 VA 570 VA	1	20 A	4.75 A	EXISTING UNIT HEATER	6	
	7	EXISTING UNIT HEATER	4.75 A	20 A	1	570 VA 570 VA			1	20 A	4.75 A	EXISTING UNIT HEATER	8	
	9	EXISTING UNIT HEATER	4.75 A	20 A	1		570 VA 1759 VA		1	20 A	14.66 A	LIGHTING MACHINING LAB 102	10	
	11	UH-102	3.3 A	20 A	1			396 VA 600 VA	1	20 A	5 A	GWH-106	12	
	13	PLASMA TABLE RECEPT.	1.5 A	20 A	1	180 VA 570 VA			1	20 A	4.75 A	UH-105C	14	
	15	RCP-1	10.45 A	20 A	1		1254 VA 570 VA		1	20 A	4.75 A	UH-105A	16	
	17	UH-105B	4.75 A	20 A	1			570 VA 5669 VA					18	
	19	RECEPTS. MACHINING LAB 102	9 A	20 A	1	1080 VA 5669 VA			3	150 A	47.2 A	MACHINE LAB BUSWAY (SEE NOTE 1)	20	
	21	DRILL PRESS	3 A	20 A	1		360 VA 5669 VA						22	
	23	RECEPTACLE	1.5 A	20 A	1			180 VA 180 VA	1	20 A	1.5 A	BANDSAW	24	
	25					8002 VA 720 VA			1	20 A	6 A	RECEPTS.	26	
	27	MACHINE LAB BUSWAY (SEE NOTE 1)	66.63 A	150 A	3		8002 VA 720 VA		1	20 A	6 A	RECEPTACLE VESTIBULE 100	28	
	29							8002 VA 900 VA	1	20 A	7.5 A	RECEPTACLE OFFICE 104	30	
	31	DRINKING FOUNTAIN	1.5 A	20 A	1	180 VA 13685...							32	
	33	RECEPTACLE CLASSROOM 101	1.5 A	20 A	1		180 VA 13685...		3	200 A	113.96 A	DC-105	34	
	35							14627... 13685...					36	
	37	WELDING LAB BUSWAY (SEE NOTE 2)	121.8 A	250 A	3	14627... 90 VA			2	20 A	0.87 A	GRINDER	38	
	39						14627... 90 VA						40	
	41	RECEPTS. WELDING LAB 105	4.5 A	20 A	1			540 VA 720 VA	1	20 A	6 A	RECEPTS. WELDING LAB 105	42	
	43	OUTDOOR RECEPTS.	3 A	20 A	1	360 VA 2350 VA							44	
	45	ROLLING DOOR	1.5 A	20 A	1		180 VA 1920 VA		3	100 A	18.38 A	LC	46	
	47	ROLLING DOOR	3 A	20 A	1			360 VA 2350 VA					48	
	49					1272 VA --			1	--	--	SPACE	50	
	51	AC-106	10.59 A	20 A	3		1272 VA --		1	--	--	SPACE	52	
	53							1272 VA --	1	--	--	SPACE	54	
	55	SPACE	--	--	1	-- 0 VA			3	60 A	--	SPD	56	
	57	SPACE	--	--	1		-- 0 VA						58	
	59	SPACE	--	--	1			-- 0 VA					60	
				Total Load:		52138 VA	50912 VA	51340 VA						
				Tot...		435 A	424 A	428 A						

CIRCUIT BREAKER INFORMATION LEGEND:
G = GROUND FAULT PROTECTION
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	1254 VA	100.00%	1254 VA	
HVAC	51041 VA	100.00%	51041 VA	**Total Conn. Load:** 154387 VA
Lighting - Exterior	120 VA	125.00%	150 VA	**Total Est. Demand:** 155140 VA
Other	6336 VA	100.00%	6336 VA	**Total Conn.:** 429 A
Receptacle	6120 VA	100.00%	6120 VA	**Total Est. Demand:** 431 A
Power	42812 VA	100.00%	42812 VA	
Lighting	2893 VA	125.00%	3616 VA	
NEC-Arc Welder	44060 VA	100.00%	44060 VA	

Notes:
1. EC TO PROVIDE (4)#1/0 AWG & (1)#6 AWG GND IN 2"C FOR MACHINE LAB OVERHEAD BUSWAY.
2. EC TO PROVIDE (4)#250KCMIL & (1)#4 AWG GND IN 3"C FOR WELDING LAB OVERHEAD BUSWAY.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG <1>	DESCRIPTION <2>	LOAD <3>	WIRE/CONDUIT <4>	STARTER <5>	VOLTAGE <6>	LOCAL DISCONNECT <7>	REMARKS
UH-102	GAS FIRED HEATER	0.08 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
UH-*	GAS FIRED HEATER (105A,105B,105C)	0.13 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
EWH-100	ELECTRIC WALL HEATER	6 FLA	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	208V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
EF-103	EXHAUST FAN	0.01 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC STARTER PROVIDED BY MC
EF-105	EXHAUST FAN	0.13 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC STARTER PROVIDED BY MC
DC-105	DUST COLLECTOR	40 HP	(3) #3/0 AWG (1) #6 AWG EQ. GND. 2-1/2" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	208V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
GWH-106	GAS WATER HEATER	5 A	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
RCP-1	CIRCULATION PUMP	0.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
AC-106	AIR COMPRESSOR	3 HP	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	208V 3P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
LOUV-*	LOUVER (105-105A)	-	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	☐ PROVIDED BY MC ☐ IN MCC NEMA SIZE ☐ TYPE	120V 1P	☐ FUSED A FUSE ☒ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC

SCHEDULE KEY NOTES

1> VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
2> SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
3> SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
4> PROVIDE FEEDERS AS INDICATED. VERIFY WITH EQUIPMENT REQUIREMENTS.
5> COORDINATE FINAL STARTER WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT, PROVIDE ADDITIONAL WIRING AS REQUIRED FOR INSTALLATION STARTER(S) FOR MECHANICAL EQUIPMENT. PROVIDE OVERLOAD PROTECTION (FUSES OR MOTOR CIRCUIT PROTECTOR) PER SPECIFICATIONS, ACTUAL FIELD
6> VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING FEEDERS.
7> EC TO PROVIDE LOCAL DISCONNECT WITHIN 5'-0" OF EQUIPMENT. NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.

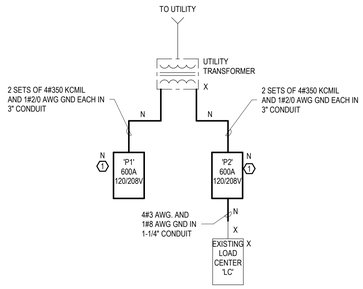
SCHEDULE GENERAL NOTES

1. PROVIDE POWER CONNECTIONS TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND OWNER FURNISHED EQUIPMENT. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND POWER REQUIREMENTS. VERIFY ALL TECHNICAL DATA WITH FINAL SHOP DRAWINGS.
2. OVER CURRENT PROTECTION SIZES LISTED ARE FROM MANUFACTURER'S AND STANDARD MOTOR DATA. FURNISH FUSES BASED ON FUSE MANUFACTURER'S STANDARDS. ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE IN FLEXIBLE CONDUIT. PROVIDE COPPER EQUIPMENT GROUND FROM DISCONNECT TO MOTOR CONNECTION.
4. EC TO COORDINATE WITH THE MECHANICAL EQUIPMENT SCHEDULES TO PROVIDE DISCONNECTS FOR THE MECHANICAL EQUIPMENT.
5. REFER TO ELECTRICAL KITCHEN EQUIPMENT SCHEDULE FOR ADDITIONAL PROJECT EQUIPMENT REQUIREMENTS.

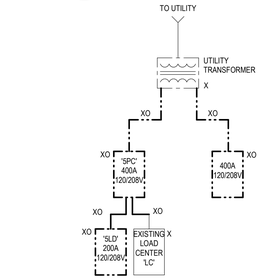
GENERAL NOTES:

1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
2. DEMOLITION ONELINE IS SHOWN FOR REFERENCE ONLY. EC SHALL FIELD VERIFY EXISTING CONDITIONS.

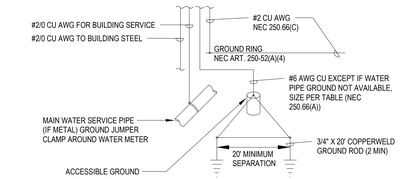
KEYNOTES
1 PROVIDE SERVICE GROUND PER DETAIL 3/E-300. PANELS TO BE GROUND BONDED TOGETHER. PROVIDE PANELS WITH NEUTRAL GROUND BOND.



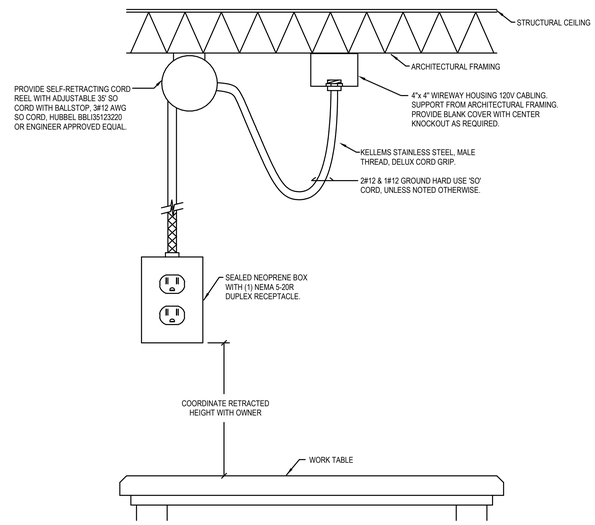
1 E-300 NEW ONELINE DIAGRAM
SCALE: N.T.S.



2 E-300 DEMOLITION ONELINE DIAGRAM
SCALE: N.T.S.



3 E-300 SERVICE GROUNDING DETAIL
SCALE: N.T.S.



4 E-300 CORD REEL DROP CORD DETAIL
12" = 1'-0"

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT COMMUNITY SCHOOL DISTRICT

NORTH SCOTT HIGH SCHOOL METALS LAB ADDITION AND RENOVATION

200 S 1st Street
Eldridge, IA 52748

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
www.legat.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

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Bill Bruce Builders
900 E. Franklin
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P: 563.285.9341
www.brucebuilders.com

SIGNATURE _____
DATE _____

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER	223048.00
DATE OF ISSUE	10.17.2023
DRAWN BY	GI
CHECKED BY	NI

ELECTRICAL ONELINE DIAGRAM AND SCHEDULES

E-300
ISSUED FOR BIDDING