DRC-23L009 LoCI AUTO SCHOOL

1580 STATE ROUTE 56SW
LONDON, OH 43140

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08/25/2025 ISSUED FOR BID

SCOPE

ONE STORY OFFICE AND AUTOMOTIVE GARAGE.

VICINITY MAP



SITE MAP



PROJECT CONTACTS

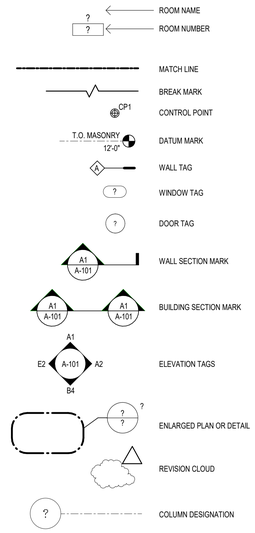
CLIENT

DEPARTMENT OF REHABILITATION AND CORRECTION
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SYMBOL LEGEND



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ALTERNATES

ALTERNATE 1: CANOPY
- **BASE:** DOES NOT INCLUDE CANOPY.
- **ALTERNATE:** CANOPY OVER PEDESTRIAN ENTRIES (NORTH AND SOUTH SIDES OF CAR GARAGE).

ALTERNATE 2: BRICK WAINSCOT
- **BASE:** TRANSITION PANEL AROUND FULL PERIMETER.
- **ALTERNATE:** 4' HIGH BRICK WAINSCOTING AROUND FULL PERIMETER.

ALTERNATE 3: BUILDING COLOR
- **BASE:** SINGLE COLOR EXTERIOR.
- **ALTERNATE:** TWO-TONED EXTERIOR.

ALTERNATE 4: CLERESTORY WINDOWS
- **BASE:** DOES NOT INCLUDE CLERESTORY WINDOWS.
- **ALTERNATE:** CLERESTORY WINDOWS IN BOTH BUS GARAGE AND CAR GARAGE.

ALTERNATE 5: OFFICE CASEWORK & PLUMBING
- **BASE:** DOES NOT INCLUDE CASEWORK
- **ALTERNATE:** CASEWORK AND SINK LOCATED IN OFFICE.

APPROVALS

Name (Owner Representative)

Title

Date

☐ APPROVED ☐ APPROVED AS NOTED ☐ REVISE AND RESUBMIT

GENERAL SHEET NOTE INSTRUCTIONS

GENERAL SHEET NOTES ARE USED TO COMMUNICATE SHEET SPECIFIC INFORMATION OR INSTRUCTIONS. THESE NOTES APPLY TO THE ENTIRE SHEET.

EXAMPLE: A. ALL FURNISHINGS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION PROCEDURES.

REFERENCE KEYNOTE INSTRUCTIONS

REFERENCE KEYNOTES ARE USED TO IDENTIFY GRAPHIC REPRESENTATIONS OF ITEMS IN THE DRAWING AND DIRECTLY REFERENCE THEM TO SPECIFICATIONS. A LEGEND ON THE RIGHT HAND SIDE OF THE PAGE LISTS THE REFERENCE KEYNOTES ON THE DRAWING AREA AND THE MATERIAL THEY REPRESENT.

ROOT - SAME NUMBER AS THE SPECIFICATION BEING REFERENCED
EXAMPLE: 05 12 00.A01 FACE BRICK - SOLDIER COURSE
DECIMAL POINT - SEPERATES ROOT FROM SUFFIX
SUFFIX - REPRESENTATION OF THE MATERIAL BEING REFERENCED. THIS NUMBER DOES NOT CORRESPOND TO A PARTICULAR SECTION WITHIN THE SPECIFICATION
DESCRIPTOR - MATERIAL DESCRIPTION

SHEET KEYNOTE INSTRUCTIONS

SHEET KEYNOTES ARE NOTED WITHIN THE GRAPHIC AREA OF THE DRAWING. THESE ARE REPRESENTED BY A NUMBER SURROUNDED BY A HEXAGON, WITH OR WITHOUT A LEADER. A LEGEND ON THE RIGHT SIDE OF THE PAGE LISTS THE NOTES IN NUMERICAL ORDER.

EXAMPLE: 1

1. ALIGN NEW CONSTRUCTION WITH THE FACE OF EXISTING CONSTRUCTION.

REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

TITLE SHEET

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

JOB NO.
2023352.01

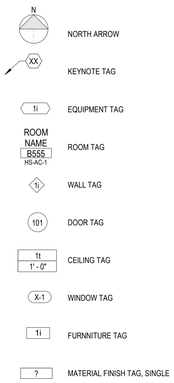
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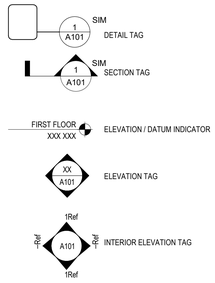
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ABBREVIATION INDEX

&	AND
@	AT
℄	CENTER LINE
⌀	DIAMETER
ACCES.	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
B.O.	BOTTOM OF
BRG.	BEARING
BTWN.	BETWEEN
CEM.	CEMENT
C.F.	COLD FORMED
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CORR.	CORRIDOR
C.T.	CERAMIC TILE
DBL.	DOUBLE
DEPT.	DEPARTMENT
D/F	DOUBLE FACED
D.F.	DRINKING FOUNTAIN
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
DS.	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
EMERG.	EMERGENCY
ENCL.	ENCLOSURE
EQ.	EQUAL
EQPT.	EQUIPMENT
E.W.C.	ELECTRIC WATER COOLER
EXP.	EXPANSION
EXIST.	EXISTING
EXT.	EXTERIOR
FABR.	FABRICATED
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
FIN.	FINISH
FIXT.	FIXTURE
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.R.T.	FIRE RETARDANT TREATED
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
GA.	GAUGE
GALV.	GALVANIZED
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
HVAC	HEATING AND COOLING
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.D.	HEAVY DUTY
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HT.	HEIGHT
HSS.	HOLLOW STEEL SECTION
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
LLD	LANDLORD
LT.	LIGHT
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MTD.	MOUNTED
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OVERHEAD
PL.	PLATE
P. LAM.	PLASTIC LAMINATE
PL.	LASTER
PLMB.	PLUMBING
PLYWD.	PLYWOOD
PR.	PAIR
PRTN.	PARTITION
PR.TR.	PRESSURE TREATED
PT.	POINT
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQD.	REQUIRED
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
R.T.U.	ROOF TOP UNIT (HVAC)
S.C.	SOLID CORE
SCHED.	SCHEDULED
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
TEL.	TELEPHONE
T.	TEMPERED GLASS
THK.	THICK
T.O.	TOP OF
TS.	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.T.R.	VENT THRU ROOF
WD.	WOOD
W/O	WITHOUT
WP	WATERPROOF
WT.	WEIGHT

SYMBOL LEGEND







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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

GENERAL INFORMATION

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

JOB NO.
2023352.01

G-001

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REFERENCE: ICC A117.1-2017

302 - FLOOR SURFACES & 303 - CHANGES IN LEVEL
FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
CHANGES IN LEVEL SHALL COMPLY WITH SECTION 303.



FIG. 302.2 CARPET OR FLOOR SURFACES | FIG. 303.2 VERTICAL CHANGE IN LEVEL | FIG. 303.3 (A) VERTICAL CHANGE IN LEVEL | FIG. 303.3 (B) VERTICAL CHANGE IN LEVEL

304 - TURNING SPACE
NEW BUILDINGS AND FACILITIES

OVERLAP OF KNEE AND TOE CLEARANCE

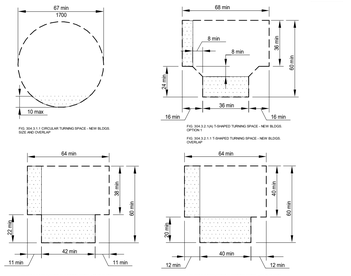


FIG. 304.3.1 CIRCULAR TURNING SPACE - NEW BLDGS. SIZE AND OVERLAP | FIG. 304.3.2 T(A)-TURNED TURNING SPACE - NEW BLDGS. OPTION 1 | FIG. 304.3.2.1 T-TURNED TURNING SPACE - NEW BLDGS. OVERLAP | FIG. 304.3.2 T(B)-TURNED TURNING SPACE - NEW BLDGS. OPTION 2 | FIG. 304.3.2.1 T-TURNED TURNING SPACE - NEW BLDGS. OVERLAP | FIG. 304.3.2 T(C)T-SHAPED TURNING SPACE - NEW BLDGS. OVERLAP | FIG. 304.3.2.1 T-TURNED TURNING SPACE - NEW BLDGS. OVERLAP

304 - TURNING SPACE
EXISTING BUILDINGS AND FACILITIES



FIG. 304.3.1 CIRCULAR TURNING SPACE - EXIST. BLDGS. SIZE AND OVERLAP | FIG. 304.3.2 T(A)-TURNED TURNING SPACE -EXIST. BLDGS. SIZE AND OVERLAP | FIG. 304.3.2.1 T-TURNED TURNING SPACE - EXIST. BLDGS. OVERLAP

305 - CLEAR FLOOR SPACE

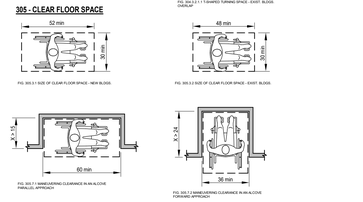


FIG. 305.3.1 SIZE OF CLEAR FLOOR SPACE - NEW BLDGS. | FIG. 305.3.2 SIZE OF CLEAR FLOOR SPACE - EXIST. BLDGS. | FIG. 305.7 WHEELCHAIRING CLEARANCE IN AN ALCOVE PARALLEL APPROACH | FIG. 305.7 WHEELCHAIRING CLEARANCE IN AN ALCOVE FORWARD APPROACH

306 - KNEE & TOE CLEARANCE; 606 - LAVATORIES & SINKS; 902 - SEATING AT TABLES, COUNTERS & WORK SURFACES

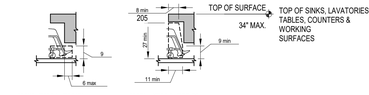


FIG. 306.3(A) TOE CLEARANCE ELEVATION | FIG. 306.3(A) KNEE CLEARANCE ELEVATION | FIG. 306.3(B) TOE CLEARANCE PLAN | FIG. 306.3(B) KNEE CLEARANCE PLAN

307 - PROTRUDING OBJECTS (ON CIRCULATION PATHS)

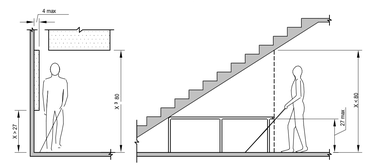


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS | FIG. 307.4 REDUCED VERTICAL CLEARANCE | FIG. 307 (VAR. 307.3(B)) POST MOUNTED PROTRUDING OBJECTS

308 - REACH RANGES

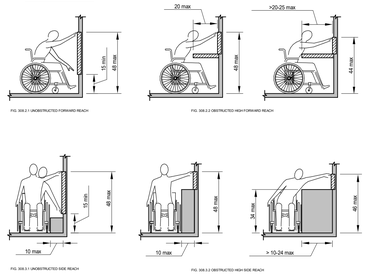


FIG. 308.3.1 UNOBSTRUCTED FORWARD REACH | FIG. 308.3.2 OBSTRUCTED HIGH FORWARD REACH | FIG. 308.3.1 UNOBSTRUCTED SIDE REACH | FIG. 308.3.2 OBSTRUCTED HIGH SIDE REACH

309 - OPERABLE PARTS

OPERABLE PARTS SHALL COMPLY WITH SECTION 309.
EXCEPTIONS:
1. RECEPTACLE OUTLETS SERVING A DEDICATED USE.
2. WHERE TWO OR MORE RECEPTACLE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTERTOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE RECEPTACLE OUTLET SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
3. IN A KITCHEN, WHERE A CLEAR FLOOR SPACE FOR A PARALLEL APPROACH CANNOT BE LOCATED AT A COUNTERTOP IN A CORNER BENEATH APPLIANCES, RECEPTACLE OUTLETS OVER THE COUNTERTOP SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT THE COUNTERTOP AREA DOES NOT EXCEED 9 SQUARE FEET MAXIMUM.
4. FLOOR RECEPTACLE OUTLETS.
5. HVAC DIFFUSERS.
6. CONTROLS MOUNTED ON CEILING FANS.
7. WHERE REDUNDANT CONTROLS OTHER THAN LIGHT SWITCHES ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
8. RESET BUTTONS AND SHUT-OFFS SERVING APPLIANCES, PIPING AND PLUMBING FIXTURES.
9. ELECTRICAL PANELBOARDS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 309.4
10. EMERGENCY AID DEVICES, SUCH AS FIRE DEPARTMENT HOSE CONNECTIONS, VALVE CONTROLS, GAUGES, POLICE CALL BOXES AND ANNUNCIATOR PANELS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT THEY ARE USED ONLY FOR EMERGENCIES BY EMERGENCY PERSONNEL ACTING IN THEIR OFFICIAL CAPACITY.

402 - ACCESSIBLE ROUTES

ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 402.
ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORS AND DOORWAYS, GATES, RAMPS, CURB RAMPS EXCLUDING FLARED SIDES, BLENDED TRANSITIONS, ELEVATORS AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE PORTIONS OF THIS STANDARD.

403 - WALKING SURFACES
NEW BUILDINGS AND FACILITIES

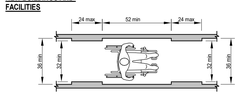


FIG. 403.5.1(A) CLEAR WIDTH OF ACCESSIBLE ROUTE - NEW BLDGS. - INTERIOR

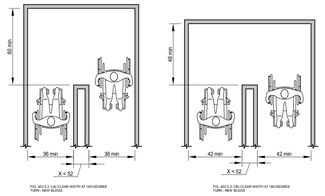


FIG. 403.5.2.1(A) CLEAR WIDTH AT 180-DEGREE TURN - NEW BLDGS. | FIG. 403.5.2.1(B) CLEAR WIDTH AT 180-DEGREE TURN - NEW BLDGS. | FIG. 403.5.2.1(C) CLEAR WIDTH AT 180-DEGREE TURN - NEW BLDGS.

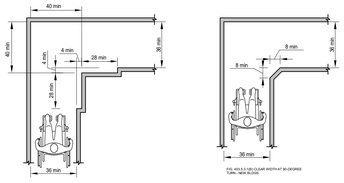


FIG. 403.5.3.1(A) CLEAR WIDTH AT 90-DEGREE TURN - NEW BLDGS. | FIG. 403.5.3.1(B) CLEAR WIDTH AT 90-DEGREE TURN - NEW BLDGS.

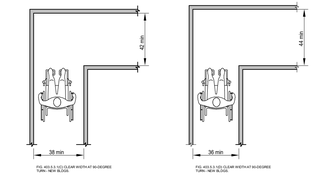


FIG. 403.5.3.2(A) CLEAR WIDTH AT 90-DEGREE TURN - NEW BLDGS. | FIG. 403.5.3.2(B) CLEAR WIDTH AT 90-DEGREE TURN - NEW BLDGS. | FIG. 403.4.1(A) PASSING SPACE - NEW BLDGS. - 60x60 OPTION | FIG. 403.4.1(B) PASSING SPACE - NEW BLDGS. - T-TURN OPTION

403 - WALKING SURFACES
EXISTING BUILDINGS AND FACILITIES

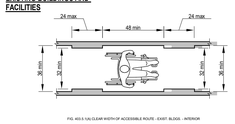


FIG. 403.5.1(A) CLEAR WIDTH OF ACCESSIBLE ROUTE - EXIST. BLDGS. - INTERIOR

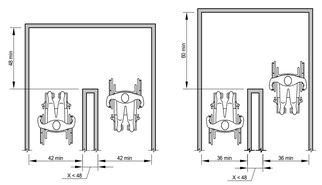


FIG. 403.5.2.1(A) CLEAR WIDTH AT 180-DEGREE TURN - EXIST. BLDGS. - INTERIOR | FIG. 403.5.2.1(A) CLEAR WIDTH AT 180-DEGREE TURN - NEW BLDGS. - INTERIOR | FIG. 403.5.3.1(A) CLEAR WIDTH AT 90-DEGREE TURN - EXIST. BLDGS.

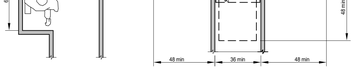


FIG. 403.5.4.2(A) PASSING SPACE -EXIST. BLDGS. - 60x60 OPTION | FIG. 403.5.4.2(B) PASSING SPACE - EXIST. BLDGS. - T-TURN OPTION

404 - DOORS, DOORWAYS AND GATES

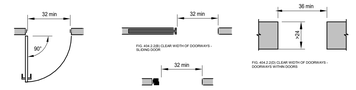


FIG. 404.2.2(A) CLEAR WIDTH OF DOORWAYS - HINGED DOOR | FIG. 404.2.2(B) CLEAR WIDTH OF DOORWAYS - SLIDING DOOR | FIG. 404.2.2(C) CLEAR WIDTH OF DOORWAYS - DOORWAYS WITHIN DOORS | FIG. 404.2.2(D) CLEAR WIDTH OF DOORWAYS - FOLDING DOOR

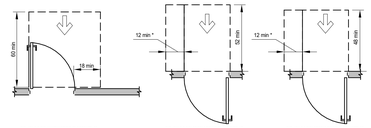


FIG. 404.2.3.3(A) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - FRONT APPROACH, PULL SIDE | FIG. 404.2.3.2(B) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - FRONT APPROACH, PULL SIDE - NEW BLDGS. | FIG. 404.2.3.2(C) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - FRONT APPROACH, PULL SIDE - EXIST. BLDGS.

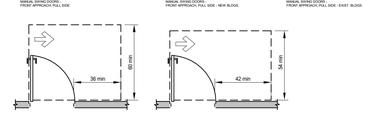


FIG. 404.2.3.2(D) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - HINGE APPROACH, PULL SIDE | FIG. 404.2.3.2(E) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - HINGE APPROACH, PULL SIDE

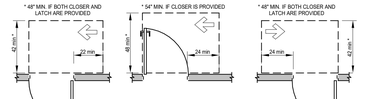


FIG. 404.2.3.2(F) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - HINGE APPROACH, PUSH SIDE | FIG. 404.2.3.2(G) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - LATCH APPROACH, PULL SIDE | FIG. 404.2.3.2(H) MANEUVERING CLEARANCE AT MANUAL SWING DOORS - LATCH APPROACH, PUSH SIDE

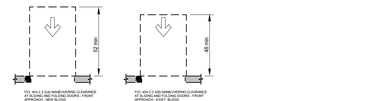


FIG. 404.2.3.3(A) MANEUVERING CLEARANCE AT SLIDING DOORS - FRONT APPROACH - NEW BLDGS. | FIG. 404.2.3.3(B) MANEUVERING CLEARANCE AT SLIDING DOORS - FRONT APPROACH - EXIST. BLDGS. | FIG. 404.2.3.4(A) MANEUVERING CLEARANCE AT SLIDING DOORS - STOP OR LATCH APPROACH | FIG. 404.2.3.4(B) MANEUVERING CLEARANCE AT SLIDING DOORS - STOP OR LATCH APPROACH

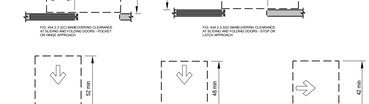


FIG. 404.2.3.4(C) MANEUVERING CLEARANCE AT SLIDING DOORS OR GATES - FRONT APPROACH - NEW BLDGS. | FIG. 404.2.3.4(D) MANEUVERING CLEARANCE AT SLIDING DOORS OR GATES - FRONT APPROACH - EXIST. BLDGS. | FIG. 404.2.3.4(E) MANEUVERING CLEARANCE AT SLIDING DOORS OR GATES - SIDE APPROACH | FIG. 404.2.5(A) RECESSED DOORS AND GATES - PUSH SIDE - NEW BLDGS. | FIG. 404.2.5(B) RECESSED DOORS AND GATES - PUSH SIDE - DOORS PROVIDED WITH BOTH CLOSER AND LATCH - NEW BLDGS.

405 - RAMPS

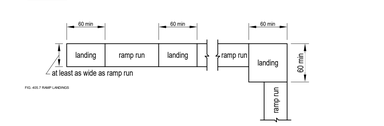


FIG. 405.7 RAMP LANDINGS | FIG. 405.5.1 EXTENDED FLOOR SURFACE | FIG. 405.5.2 CURB | FIG. 405.9.2 BARRIER

504 - STAIRWAYS
ACCESSIBLE STAIRS SHALL COMPLY WITH SECTION 504.
TREADS AND RISERS:
1. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND UNIFORM TREAD DEPTH. RISERS SHALL BE 4 INCHES MINIMUM AND 7 INCHES MAXIMUM IN HEIGHT. TREADS SHALL BE 11 INCHES MINIMUM IN DEPTH.

505 - HANDRAILS

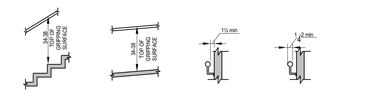


FIG. 505.4(A) HANDRAIL HEIGHT - STAIRS | FIG. 505.4(B) HANDRAIL HEIGHT - RAMPS | FIG. 505.5 HANDRAIL CLEARANCE | FIG. 505.6 HANDRAIL CROSS SECTION - CIRCULAR | FIG. 505.10.1 TOP AND BOTTOM EXTENSIONS AT RAMPS | FIG. 505.10.2 TOP HANDRAIL EXTENSION AT STAIRS | FIG. 505.10.3 BOTTOM HANDRAIL EXTENSION AT STAIRS

602 - DRINKING FOUNTAINS

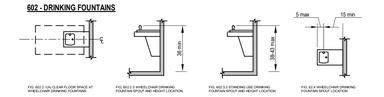


FIG. 602.2.1(A) CLEAR FLOOR SPACE AT WHEELCHAIR DRINKING FOUNTAINS | FIG. 602.2.2 WHEELCHAIR DRINKING FOUNTAIN SPOUT AND WEIGHT LOCATION | FIG. 602.2.3 STANDING USE DRINKING FOUNTAIN SPOUT AND WEIGHT LOCATION | FIG. 4.2 WHEELCHAIR DRINKING FOUNTAIN SPOUT LOCATION

603 - TOILET AND BATHING ROOMS

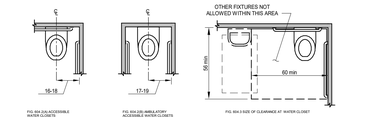


FIG. 604.2(A) ACCESSIBLE WATER CLOSETS | FIG. 604.2(B) AMBULATORY ACCESSIBLE WATER CLOSETS | FIG. 604.3 SIZE OF CLEARANCE AT WATER CLOSET | FIG. 604.4 SEAT HT. | FIG. 604.5.1 SIDE WALL GRAB BAR FOR WATER CLOSET | FIG. 604.5.2 REAR WALL GRAB BAR FOR WATER CLOSET | FIG. 604.7.1(A) DISPENSER OUTLET LOCATION - PROTRUDING DISPENSER BELOW GRAB BAR | FIG. 604.7.1(B) DISPENSER OUTLET LOCATION - PROTRUDING DISPENSER ABOVE GRAB BAR | FIG. 604.7.1(C) DISPENSER OUTLET LOCATION - RECESSED DISPENSER | FIG. 604.7.1(D) DISPENSER OUTLET LOCATION - DISPENSER IN FRONT OF WATER CLOSET - EXCEPTION

604.9 - WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

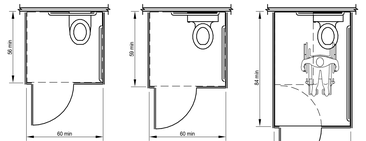


FIG. 604.8.1(A) WHEELCHAIR TOILET COMPARTMENTS, WALL HUNG WATER CLOSET | FIG. 604.8.1(B) WHEELCHAIR TOILET COMPARTMENTS, FLOOR MOUNTED WATER CLOSET | FIG. 604.8.2 WHEELCHAIR TOILET COMPARTMENTS, ALTERNATE WHEELCHAIR COMPARTMENT | FIG. 604.8.2.3(A) WHEELCHAIR TOILET COMPARTMENT DOORS, DOOR SWINGING INTO WHEELCHAIR TOILET COMPARTMENT | FIG. 604.8.2.3(B) WHEELCHAIR TOILET COMPARTMENT DOOR OPENING LOCATION, DOOR SWINGING OUT ON SIDE WALL OF PARTITIONS | FIG. 604.8.2.3(C) WHEELCHAIR TOILET COMPARTMENT DOOR LOCATION, DOOR SWINGING OUT ON FRONT WALL OF PARTITION

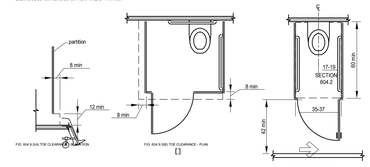


FIG. 604.9.3(A) TOE CLEARANCE - ELEVATION | FIG. 604.9.3(B) TOE CLEARANCE - PLAN | FIG. 604.10.1 AMBULATORY COMPARTMENT

605 - URINALS

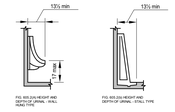


FIG. 605.2(A) HEIGHT AND DEPTH OF URINAL - WALL HUNG TYPE | FIG. 605.2(b) HEIGHT AND DEPTH OF URINAL - STALL TYPE

606 - LAVATORIES AND SINKS

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.
606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
606.6 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

608 - SHOWER COMPARTMENTS

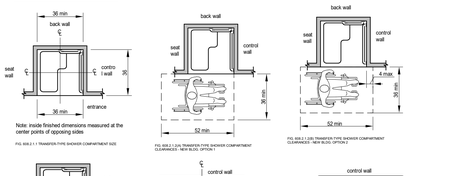


FIG. 608.2.1.1 TRANSFER-TYPE SHOWER COMPARTMENT SIZE | FIG. 608.2.1.2(A) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES - NEW BLDG. OPTION 1 | FIG. 608.2.1.2(B) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES - NEW BLDG. OPTION 2 | FIG. 608.2.2(A) TRANSFER-TYPE SHOWER COMPARTMENT CLEARANCES - EXIST. BLDG. | FIG. 608.2.2.1 STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT SIZE | FIG. 608.2.2.2 STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT CLEARANCE

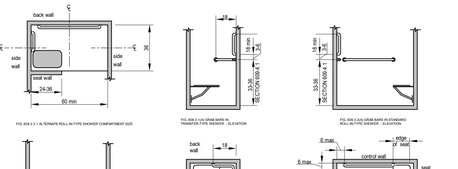


FIG. 608.2.3.1 ALTERNATE ROLL-IN-TYPE SHOWER COMPARTMENT SIZE | FIG. 608.3.1(A) GRAB BARS IN TRANSFER TYPE SHOWER - ELEVATION | FIG. 608.3.2(A) GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER - ELEVATION | FIG. 608.3.1(B) GRAB BARS IN ALTERNATE ROLL-IN-TYPE SHOWER - ELEVATION | FIG. 608.3.1(B) GRAB BARS IN TRANSFER TYPE SHOWER - PLAN | FIG. 608.3.2(B) GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER - PLAN | FIG. 608.3.1(B) GRAB BARS IN ALTERNATE ROLL-IN-TYPE SHOWER - PLAN

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REV: | DATE | DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

GENERAL INFORMATION

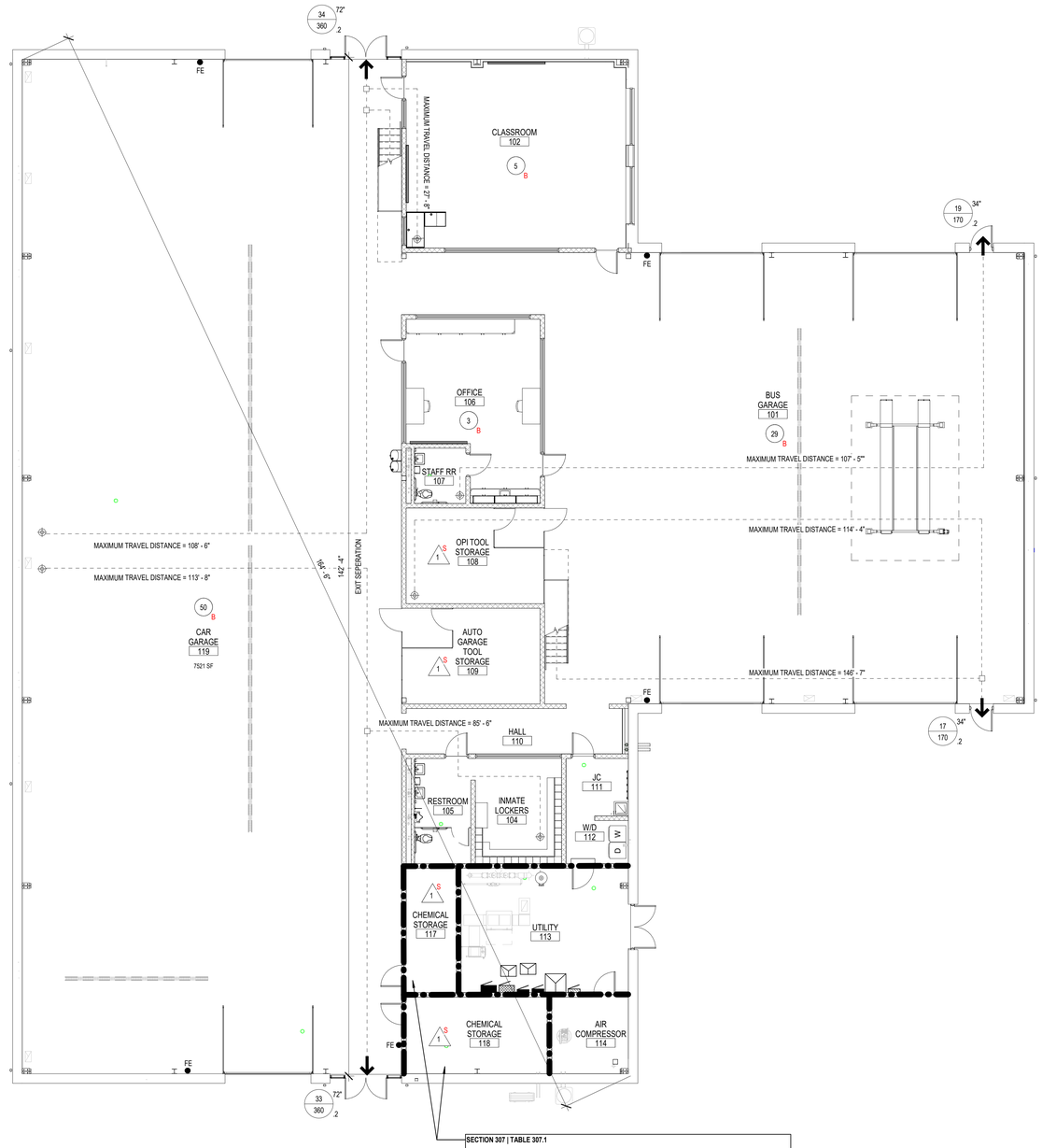
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

JOB NO.
2023352.01

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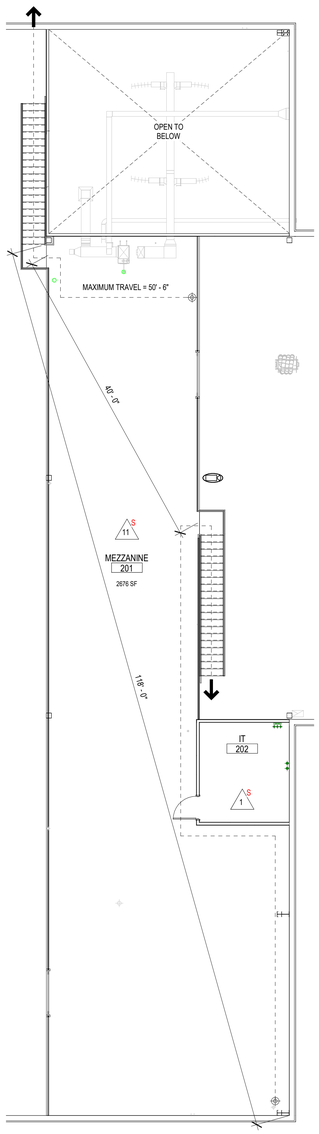
SECTION 307 | TABLE 307.1

MATERIALS IN THE FLUIDS ROOM ARE CLASSIFIED AS IIIB COMBUSTIBLE LIQUIDS. QUANITITIES SHALL NOT BE LIMITED PER NOTE(F) IF IN BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

FLUIDS CONTAINERS

1SYD #107 FM DEGREASER 16OZ.	BREAK ANTIFREEZE AND DRYER 32 OZ.
SEAFOAM MOTOR TREATMENT 16OZ.	OREILLY 20-DEG WINDSHIELD WASHER FLUID 55 GAL.
PERFECT MATCH SILVER PAINT 8 OZ.	PERFECT MATCH CLEAR COAT 8OZ.
DUPLI-COLOR BLACK GLASS PAINT 12 OZ.	STARTING FLUID 12 OZ.
GUNK ENGINE CLEANER 17 OZ.	AYD GLOSS PAINT 12 OZ.
MASS AIR FLOW CLEANER 17 OZ.	WHITE LITHIUM GREASE 10 OZ.
BLACK/JACK CEMENT 8 OZ.	TRIM ADHESIVE 16 OZ.
P.B. BLASTER 18 OZ.	AYD 4 IN 1 SPRAY 11 OZ.

A1 FIRST FLOOR - LIFE SAFETY
1/8" = 1'-0"



A5 MEZZANINE - LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

- FEC — FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER (BRACKET MOUNTED)
- W / X / Y / Z — W - ACTUAL CLEAR WIDTH OF LIMITING COMPONENT (INCHES); X - OCCUPANTS USING EXIT; Y - EXIT CAPACITY; Z - EGRESS WIDTH PER OCCUPANT (INCHES/OCCUPANT)
- PATH OF TRAVEL TO EGRESS
- 1 HOUR RATED FIRE SEPERATION WALL CONSTRUCTION
- MOST REMOTE LOCATION, TO DETERMINE EXIT ACCESS TRAVEL DISTANCE
- TRAVEL DISTANCE — TABLE 1017.2 ALLOWABLE EXIT ACCESS TRAVEL DISTANCE
- S / 00 — STORAGE/MECHANICAL: 300 SF GROSS/OCCUPANT
- 00 B — BUSINESS: 150 SF GROSS/OCCUPANT

NOTE: CONTRACTOR IS REQUIRED TO COORDINATE FINAL LOCATION AND QUANTITY OF FIRE EXTINGUISHERS WITH AUTHORITY HAVING JURISDICTION. FIRE EXTINGUISHERS ARE TO BE OWNER SUPPLIED; CABINETS AND BRACKETS ARE TO BE PROVIDED AND INSTALLED BY CONTRACTOR.

2024 OHIO BUILDING CODE REVIEW

REFERENCED CODES

BUILDING CODE:	2024 OHIO BUILDING CODE
MECHANICAL CODE:	2024 OHIO MECHANICAL CODE
PLUMBING CODE:	2024 OHIO PLUMBING CODE
ELECTRICAL CODE:	2023 OHIO ELECTRICAL CODE
FIRE CODE:	2022 OHIO FIRE CODE
ACCESSIBILITY CODE:	ICC/ANSI A117.1 2009
ENERGY CODE:	2021 OHIO BUILDING CODE AND ASHRAE 90.1-2019

CHAPTER 3 USE GROUP AND OCCUPANCY
- USE GROUP 'B' BUSINESS (ADMIN AREA)
- USE GROUP S-2 'LOW HAZARD STORAGE (GARAGE AREA)

303.1.2 SMALL ASSEMBLY SPACES
THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES:
1. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

304.1 BUSINESS GROUP B
EDUCATIONAL OCCUPANCIES FOR STUDENTS ABOVE THE 12TH GRADE INCLUDING HIGHER EDUCATION LABORATORIES.

311.3 LOW-HAZARD STORAGE S-2
STORAGE GROUP USED FOR THE STORAGE OF NONCOMBUSTIBLE MATERIALS.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
- TYPE II-B CONSTRUCTION, MIXED USE/NON-SEPARATED, FULLY SUPPRESSED

[TABLE 504.3]
ALLOWABLE HEIGHT = 75'

[TABLE 504.4] ALLOWABLE STORIES
- B OCCUPANCY, S: 4 STORIES
- S-2 OCCUPANCY, S: 4 STORIES

[TABLE 506.2] ALLOWABLE AREA FACTOR:
- B OCCUPANCY, S1: 92,000 SF (GOVERNS)
- S-2 OCCUPANCY, NS: 104,000 SF

- ACTUAL AREA, FIRST FLOOR = 17,366 SF
- ACTUAL AREA, MEZZANINE = 3,295 SF

- ACTUAL HEIGHT = 24'-1", 1 STORY

505.2.1 MEZZANINE AREA LIMITATION
THE AGGREGATE AREA OF A MEZZANINE OR MEZZANINES WITHIN A ROOM SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED.

14,084 SF/2 = 7,042 SF ALLOWED > 2,676 SF ACTUAL

509.1 INCIDENTAL USES
STORAGE ROOMS OVER 100 SQ FT - 1 HOUR RATED WALLS OR PROVIDE AUTOMATIC FIRE SUPPRESSION

CHAPTER 8 - INTERIOR FINISHES
TABLE 803.11 -INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
CORRIDORS- CLASS C
ROOMS AND ENCLOSED SPACES - CLASS C

CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY

907.2 FIRE ALARM AND DETECTION SYSTEMS
MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.1.1, AND THE OCCUPANT NOTIFICATION APPLIANCED WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATER FLOW.

CHAPTER 10 - MEANS OF EGRESS
1004 OCCUPANT LOAD
REFER TO LIFE SAFETY PLANS FOR OCCUPANT LOAD.

1014.3 COMMON PATH OF EGRESS TRAVEL
EXCEPTION 1: 75'-0" MAXIMUM.

TABLE 1006.3.3 MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD
1-500: 2 EXITS | **4 EXITS PROVIDED**
501-1,000: 3 EXITS
MORE THAN 1,000: 4 EXITS

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE.
300' MAXIMUM (FULLY-SPRINKLERED).

TABLE 1020.2 CORRIDOR FIRE RESISTANCE RATING
USE GROUPS B: 0 HOUR (FULLY-SPRINKLERED)
USE GROUP S-2: 0 HOUR (FULLY-SPRINKLERED)

1020.5 DEAD ENDS
EXCEPTION 2: IN GORUPS B & S WHERE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTE, IN ACCORDANCE WITH SECTOIN 903.1.1, THE LENGTH OF THE CORRIDOR SHALL NOT EXCEED 50 FEET.

1505 FIRE CLASSIFICATION

1505.1 GENERAL- ROOF ASSEMBLIES SHALL BE DIVIDED INTO CLASSES DEFINED BELOW. CLASS A, B, AND C ROOF ASSEMBLIES AND ROOF COVERINGS REQUIRED TO BE LISTED BY THIS SECTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E108 OR UL 790... THE MINIMUM ROOF COVERINGS INSTALLED ON BUILDINGS SHALL COMPLY WITH TABLE 1505. BASED ON THE CONSTRUCTION OF THE BUILDING.

[TABLE 1505.1] MINIMUMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION
IIB = CLASSIFICATION C

CHAPTER 29 - PLUMBING SYSTEMS
2902.1 PLUMBING FIXTURE REQUIREMENTS.

BUSINESS (B):
OCCUPANT LOAD = 87 TOTAL

FIXTURE	FIXTURE/OCC.	REQ'D
WATER CLOSETS		
OCCUPANTS	1 PER 25	1.74
LAVATORIES		
OCCUPANTS	1 PER 25	1.74
DRINKING FOUNTAIN	1 PER 100	0.87
SERVICE SINK	1 REQ'D	1

STORAGE (S-2):
OCCUPANT LOAD = 15 TOTAL

FIXTURE	FIXTURE/OCC.	REQ'D
WATER CLOSETS		
OCCUPANTS	1 PER 100	0.08
LAVATORIES		
OCCUPANTS	1 PER 100	0.08
DRINKING FOUNTAIN	1 PER 1,000	0.02
SERVICE SINK	1 REQ'D	1

TOTAL FIXTURES REQUIRED

FIXTURE	REQ'D	PROVIDED
WATER CLOSETS		
OCCUPANTS	1.74 + 0.08 = 1.82	3
LAVATORIES		
OCCUPANTS	1.74 + 0.08 = 1.82	3
DRINKING FOUNTAIN	0.89	1
SERVICE SINK	1 REQ'D	1

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LONDON, OH 43140

LIFE SAFETY PLANS AND CODE SUMMARY

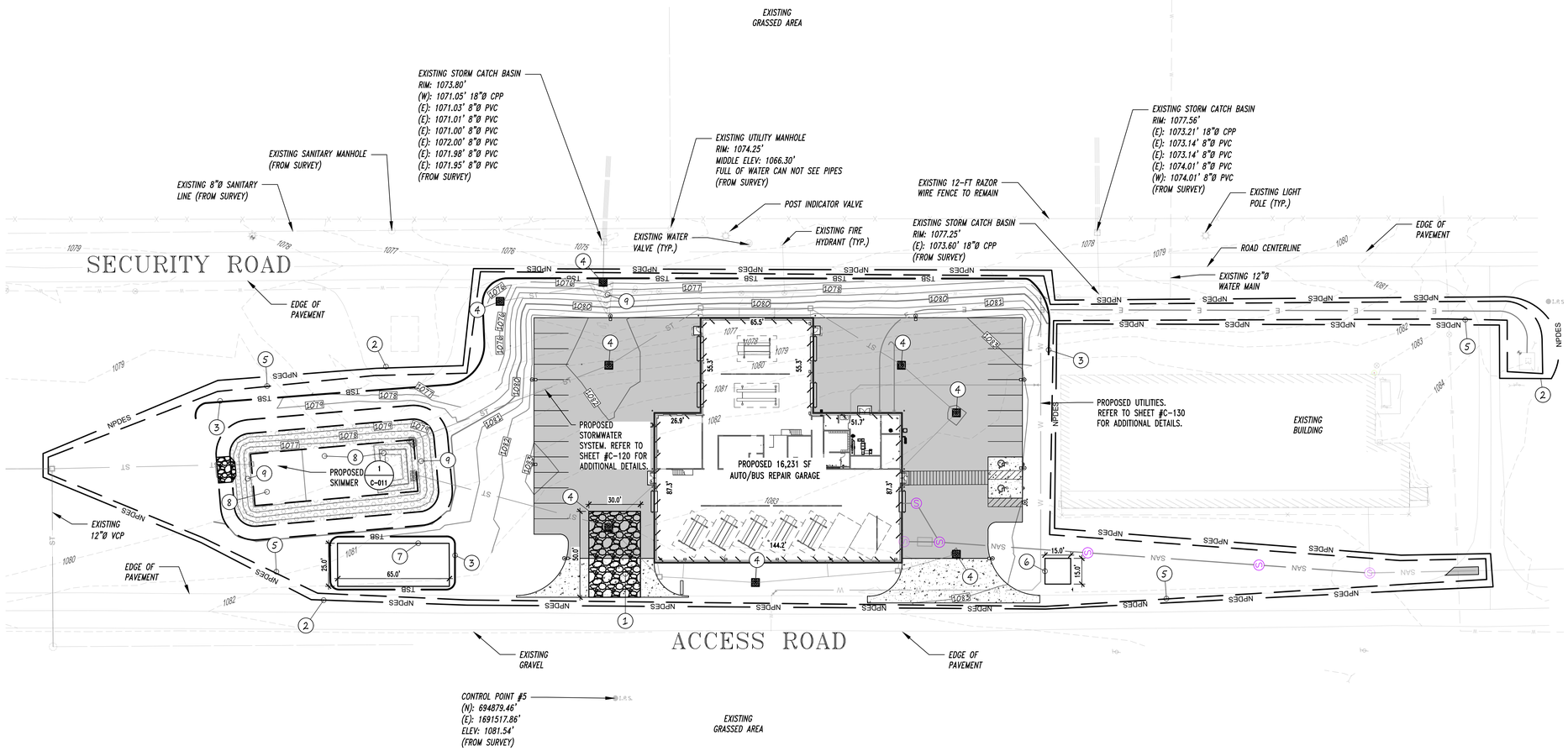
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

JOB NO.
2023352.01

G-101

9/11/2025 8:46:23 AM



EROSION & SEDIMENT CONTROL PLAN NOTES :

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION & SEDIMENT CONTROL (E&S) PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION SITE MEETING WITH THE GOVERNING AGENCIES AT LEAST 48 HOURS PRIOR TO STARTING SITE CONSTRUCTION ACTIVITIES.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE LOCAL ONE CALL SYSTEM INC. SHALL BE NOTIFIED FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE GOVERNING AUTHORITY CITY PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE HAVE BEEN INSTALLED.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION SHOWN ON THE PLAN MAPS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER. INSTALL APPROPRIATE SEDIMENT CONTROLS TO TRAP SEDIMENT SUCH AS SILT FENCE IMMEDIATELY ADJACENT TO THE STOCKPILE OR SEDIMENT TRAPS OR BASINS DOWNSTREAM OF THE STOCKPILE.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE CITY.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH STATE SOLID WASTE MANAGEMENT REGULATIONS NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.
12. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
13. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
14. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
15. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. FILL MATERIAL REMOVED OFF-SITE BY A QUALIFIED TRANSPORTER TO A CERTIFIED LANDFILL AND MANIFESTED.
16. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
17. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
18. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
19. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
20. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
21. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
22. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
23. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
24. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
25. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
26. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE GOVERNING AUTHORITY.
27. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
28. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
29. INSPECTION RECORDS SHALL BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES.
31. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.
32. EQUIPMENT FUELING AND MAINTENANCE SHALL BE PERFORMED AWAY FROM ANY WATERCOURSE, DITCH, OR DRAIN AND IN A DESIGNATED AREA THAT SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS.
33. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED.
34. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR OTHER ABSORBANT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO THE OEPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE OEPA, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF RELEASE.
35. DUST CONTROL IS REQUIRED AND MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
36. FOR ON-SITE SOIL TYPES, SKIMMER ORIFICE CALCULATIONS, AND SEDIMENT TRAP DESIGN CALCULATIONS PLEASE REFER TO SHEET #C-011.

PROJECT DESCRIPTION :

1. THE PROJECT IS TO BUILD A NEW AUTO/BUS GARAGE THAT WILL BE ABLE TO SERVICE 7 CARS AND 2 BUSES AT A TIME. THE SITE WILL FEATURE A PARKING LOT WITH TWO ENTRANCE DRIVES CONNECTING TO THE ACCESS ROAD, THE AUTO/BUS REPAIR GARAGE, AND A NEW STORM CONVEYANCE SYSTEM THAT WILL INCLUDE CATCH BASINS, STORM SEWERS, AND A DRY EXTENDED DETENTION SYSTEM. IN EXISTING CONDITIONS, THE SITE AREA IS UNDEVELOPED.
2. THE OVERALL PROPERTY IS APPROXIMATELY 475 ACRES.
3. IN EXISTING CONDITIONS, APPROXIMATELY 5,068 SF OF THE SITE IS IMPERVIOUS SURFACE (6.1% OF TOTAL DRAINAGE AREA) AND THE RUNOFF COEFFICIENT WAS CALCULATED TO BE 81.
4. IN PROPOSED CONDITIONS, APPROXIMATELY 51,204 SF OF THE SITE IS IMPERVIOUS SURFACE (57.2% OF TOTAL DRAINAGE AREA) AND THE RUNOFF COEFFICIENT WAS CALCULATED TO BE 91.
5. THE ULTIMATE DISCHARGE OF STORMWATER IS OAK RUN LOCATED TO THE NORTHEAST OF THE SITE WITHIN THE LOCI PROPERTY.
6. THE TOTAL DISTURBED AREA IS 2.09-ACRES.

SEQUENCE OF CONSTRUCTION:

1. FIELD-MARK LIMITS OF DISTURBANCE
2. PROVIDE PROTECTION FOR AREAS TO REMAIN UNDISTURBED AS DEPICTED ON THE PLANS.
3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AS INDICATED ON THE PLANS.
4. INSTALL TEMPORARY SEDIMENT BARRIER (COMPOST FILTER SOCKS) AS INDICATED ON THE PLANS.
5. PRE-CONSTRUCTION VEGETATION GROUND COVER SHALL NOT BE DESTROYED, REMOVED, OR DISTURBED MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING.
6. PERFORM CLEARING OPERATIONS AS REQUIRED WITHIN LIMITS OF DISTURBANCE.
7. PERFORM GRUBBING/TOPSOIL STRIPPING OPERATIONS AS WITHIN LIMITS OF DISTURBANCE. STRIP TOPSOIL AND PLACE IN DESIGNATED STOCKPILE AREA AND EXPORT AS REQUIRED. CLEARING AND GRUBBING MUST BE HELD TO A MINIMUM NECESSARY FOR GRADING EQUIPMENT OPERATION. STOCKPILE AREA SHALL BE PROTECTED FROM EROSION WITH COMPOST FILTER SOCK AS REQUIRED.
8. SAWCUT AND REMOVE EXISTING PAVEMENT AS DEPICTED ON THE PLANS.
9. PERFORM GRADING OPERATIONS AND PERFORM SOIL IMPORT / EXPORT OPERATIONS AS REQUIRED.
10. CONSTRUCT THE SEDIMENT BASIN.
11. INSTALL BUILDING FOUNDATIONS AND INITIATE BUILDING CONSTRUCTION.
12. PLACE CRUSHED AGGREGATE ON PROPOSED HARD SURFACES (APPLY AS SOON AS THE PARKING LOT SURFACES ARE GRADED).
13. INSTALL STORM SEWER PIPE AND DRAINAGE STRUCTURES BEGINNING FROM THE DOWNSTREAM END FIRST, THEN WORKING TOWARDS THE UPSTREAM END. INSTALL INLET PROTECTION ONTO DRAINAGE STRUCTURES IMMEDIATELY AFTER THE INSTALLATION OF EACH STRUCTURE.
14. CONSTRUCT CONCRETE WASHOUT AREA.
15. INSTALL UTILITIES AND SITE LIGHTING.
16. CONSTRUCT CONCRETE ELEMENTS.
17. PERFORM PAVING OPERATIONS.
18. PERFORM PERMANENT STABILIZATION OPERATIONS – PLACE TOPSOIL, PERMANENT SEEDING, SEED APPLICATION & MULCHING. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING (REFER TO THE PERMANENT SEEDING SCHEDULE), BUT NOT TO EXCEED 7 DAYS.
19. FINAL SITE STABILIZATION WILL BE ACHIEVED WHEN ALL AREAS OF THE SITE ARE STABILIZED WITH PAVEMENT AND/OR GRASS COVER. AT LEAST 70% OF GRASS AREAS SHALL HAVE A GOOD STAND OF GRASS.
20. REMOVE ALL TEMPORARY BMP'S AND STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF SEDIMENT AND EROSION CONTROLS.
21. ALL CONTROL MEASURES SHALL BE INSPECTED, AND REPAIRED AS NECESSARY, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS.
22. MAINTENANCE NEEDS IDENTIFIED BY INSPECTIONS, OR BY OTHER MEANS, SHALL BE ACCOMPLISHED BEFORE THE NEXT STORM EVENT, BUT IN NO CASE MORE THAN 3 DAYS AFTER THE NEED IS IDENTIFIED.
23. TO THE EXTENT FEASIBLE, APPROPRIATE COVER SHALL BE APPLIED WITHIN 7 DAYS ON ALL DISTURBED AREAS. EXAMPLES OF COVER ARE GRASS, SOD, STRAW, MULCH, FABRIC MATS ETC. (REFER TO THE TEMPORARY SEEDING SCHEDULE).
24. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.

SEEDING NOTES

1. SEASON SEEDING DATES FOR PERMANENT AND CHANNEL \STEEP SLOPE SEEDING IS MARCH 15 – JUNE 1, AUGUST 1-OCTOBER 15.
2. LIMING RATE SHALL BE AS INDICATED UNLESS SOIL TEST INDICATES OTHERWISE.
3. THE GOAL OF SEEDING IS TO MEET A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES.
4. FOR PERMANENT STABILIZATION SEEDING MIX, REFER TO SPECIFICATIONS SECTION 32 92 00 TURF AND GRASSES.

SEEDING SPECIFICATIONS

APPLICATION	SPECIES	PURE LIVE SEED (%)	SEED BY WEIGHT (%)	SEEDING RATE (LB/AC)	FERTILIZER TYPE	FERTILIZER RATE (LB/AC)	LIMING RATE (TON/AC)	MULCH TYPE	MULCH RATE (TON/AC)
TEMPORARY STABILIZATION	ANNUAL RYEGRASS	98	N/A	50	10-10-10	450	0.25	STRAW	3
PERMANENT STABILIZATION: CHANNEL & STEEP SLOPES (>3:1)	PERENNIAL RYEGRASS	98	20	20	10-20-20	680	2.0	EROSION CONTROL BLANKET	N/A
	CREEPING RED FESCUE	98	30	31	10-20-20	680	2.0	EROSION CONTROL BLANKET	N/A
	KENTUCKY BLUEGRASS	98	50	51	10-20-20	680	2.0	EROSION CONTROL BLANKET	N/A

EROSION & SEDIMENT CONTROL PLAN CALLOUT NOTES

1. PROPOSED CONSTRUCTION ENTRANCE (12 / C-500)
2. NPDES PERMIT AREA
3. PROPOSED 12"Ø COMPOST FILTER SOCK (APPRX. 785 LF) (11 / C-500)
4. INLET PROTECTION ON PROPOSED STRUCTURES WITH A GRATE (TYP. OF 8) (14 / C-500)
5. LIMIT OF DISTURBANCE
6. DESIGNATED CONCRETE WASHOUT AREA (15 / C-500)
7. DESIGNATED SOIL STOCKPILE AREA
8. AREA OF TEMPORARY SEEDING
9. EROSION CONTROL BLANKET (2 / C-011)

LEGEND:

- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED EROSION CONTROL BLANKET (2 / C-011)
- PROPOSED CONSTRUCTION ENTRANCE

30' 0 30' 60'

SCALE: 1"=30'

JMW SITE DESIGN
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330-422-8603
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Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
	--/--/--	

STATE OF OHIO — JULIO A. WILLIAMS — 79557 — REGISTERED PROFESSIONAL ENGINEER

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Erosion & Sediment Control Plan

ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-010

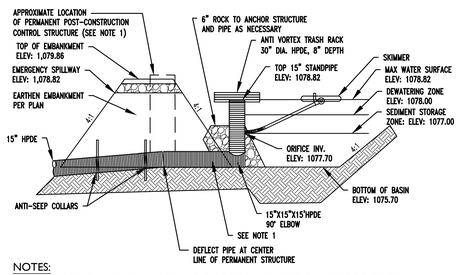
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CORRECTIVE ACTION LOG

INSPECTION DATE	INSPECTOR NAME(S)	DESCRIPTION OF BMP DEFICIENCY	CORRECTION ACTION NEEDED (INCLUDING PLANNED DATE/RESPONSIBLE PERSON)	DATE ACTION TAKEN/ RESPONSIBLE PERSON

SWPPP AMENDMENT LOG

AMENDMENT NO.	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY [NAME(S) AND TITLE]

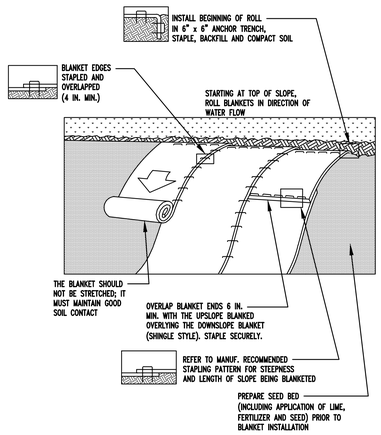


NOTES:

1. UPON STABILIZATION OF UPSTREAM AREAS TEMPORARY OUTLET STRUCTURES SHALL BE REMOVED AND REPLACED WITH PERMANENT POST-CONSTRUCTION OUTLET CONTROL. REFER TO OUTLET CONTROL DETAIL.
2. PRIOR TO INSTALLATION OF PERMANENT OUTLET CONTROL STRUCTURE ALL SEDIMENT SHALL BE REMOVED AND DETENTION BASIN SHALL BE RESTORED TO ITS DESIGN DIMENSIONS PER THE GRADING PLAN AND SEEDED AND MULCHED.
3. CLEAN-OUT OF THE SEDIMENT BASIN IS REQUIRED WHEN THE SEDIMENT OCCUPIES 50% OF THE SEDIMENT STORAGE ZONE AND ALSO PRIOR TO CONVERSION TO A POST-CONSTRUCTION BMP.

1 TEMPORARY SEDIMENT BASIN OUTLET DETAIL

NOT TO SCALE



NOTES:

DOUBLE-NET EROSION CONTROL BLANKET TYPE ECS-2D TO BE USED.

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

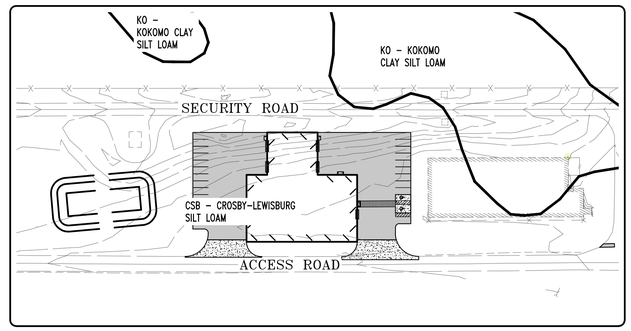
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

2 EROSION CONTROL BLANKET

NOT TO SCALE



SOILS MAP

SCALE: 1"=175'

SKIMMER ORIFICE CALCULATIONS

CALCULATIONS PERFORMED PER THE FAIRCLOTH SKIMMER SIZING INSTRUCTIONS:

TOTAL BASIN VOLUME: 6,123 CF

PERMISSIBLE DRAWDOWN DURATION: 2 (MIN.) – 7 (MAX.) DAYS PER OEPA RAINWATER AND LAND DEVELOPMENT MANUAL

2" SKIMMER WITH
A 2" HEAD DRAINS:
6,566 CUBIC FEET IN 2 DAYS

DETERMINING ORIFICE SIZE:
VOLUME/FACTOR = ORIFICE AREA
6,123 CF/2,246 = 2.73 IN^2
R = $\sqrt{(2.73\ IN^2 / \Pi)}$ = 0.93 INCHES

ORIFICE DIAMETER: 1.8 INCHES

SEDIMENT BASIN DESIGN

ITEM	
TOTAL CONTRIBUTING WATERSHED AREA (AC):	2.09 ACRES
TOTAL DISTURBED AREA (AC):	2.09 ACRES
REQUIRED DEWATERING VOLUME (1,800 CF * AC):	3,762 CF
REQUIRED SEDIMENT STORAGE ZONE VOLUME (1,000 CF * DIST. AREA (AC)):	2,090 CF
TOTAL REQUIRED CAPACITY (CF):	5,852
DEWATERING VOLUME PROVIDED (CF):	3,963
SEDIMENT STORAGE PROVIDED (CF):	2,160
TOTAL CAPACITY PROVIDED (CF):	6,123

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Contact:
Julio A. Williams, P.E., CPESC

REV.	DESCRIPTION	DATE

STATE OF OHIO
JULIO A. WILLIAMS
E-79557
REGISTERED PROFESSIONAL ENGINEER
6/20/25

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Erosion & Sediment Control Plan

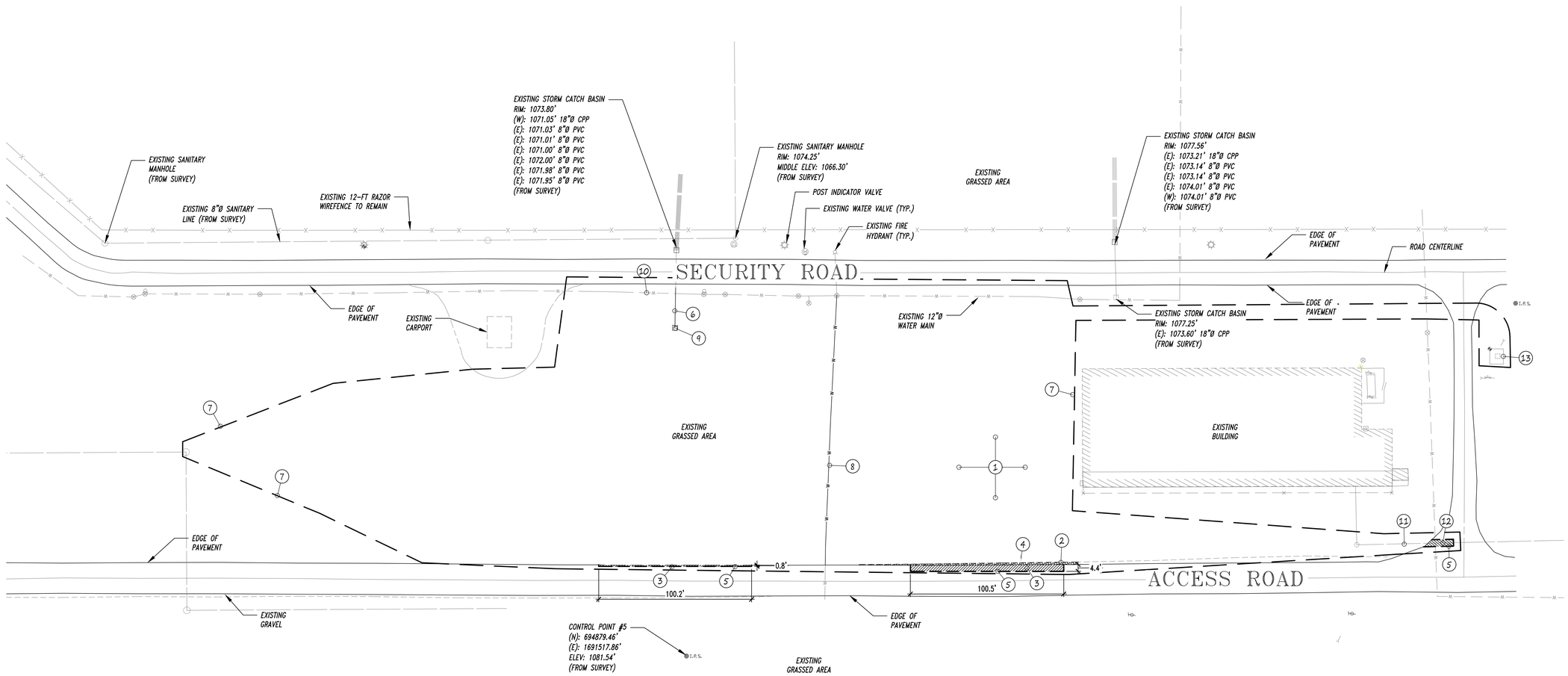
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PROJECT MANAGER	DESIGNER
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N24019

C-011

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REMOVAL PLAN NOTES

1. THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH, THIS INFORMATION IS SPECULATIVE IN NATURE ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY AND ALL CONSTRUCTION.
2. THE CONTRACTOR SHALL CALL UTILITY LOCATE, 72 HOURS PRIOR TO CONSTRUCTION.
3. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY OR STATE.
4. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
5. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND DISPOSAL OF BUILDING DEMOLITION DEBRIS. CONTRACTOR SHALL PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
6. NOT USED.
7. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING CONSTRUCTION. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
8. UNDERGROUND UTILITY REMOVAL SHALL BE COORDINATED TO THE EXTENT NECESSARY WITH LOCAL UTILITY COMPANY. COMPLETELY REMOVE ALL UTILITY LINES UNEARTHED DURING EXCAVATION AND ANY LINES REMAINING WITHIN 24 INCHES OF SUBGRADE IN ACCORDANCE WITH THE PLAN NOTES. OTHER LINES MUST BE CAPPED OFF BELOW GRADE IN A PERMANENT AND WATERTIGHT MANNER APPROVED BY THE LOCAL UTILITY BOARD.
9. FOR ALL ITEMS NOTED TO BE REMOVED – REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPES, UNDERGROUNG STORAGE TANKS, ETC.
10. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR FILL OUTLINED IN THE GEOTECHNICAL REPORT.
11. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPES, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION TO THE OWNER'S SATISFACTION.
12. CONTRACTOR SHALL PHOTOGRAPH CONDITION OF ROADWAYS IMMEDIATELY ADJACENT TO THE SITE BEFORE COMMENCING WORK.

REMOVALS PLAN CALLOUT NOTES

1. TOPSOIL STRIPPING (AS REQUIRED)
2. EXISTING GRAVEL TO BE REMOVED
3. EXISTING ASPHALT PAVEMENT TO BE REMOVED
4. EXISTING 25MPH SIGN TO BE RELOCATED. SEE SHEET #C-110 FOR LOCATION.
5. SAWCUT LINE
6. PARTIAL REMOVAL OF EXISTING STORM PIPE. SEE SHEET #C-120 FOR ADDITIONAL DETAILS.
7. LIMITS OF DISTURBANCE. SEE TO SHEET #C-010 FOR ADDITIONAL DETAILS.
8. EXISTING 12" DIA. WATER MAIN TO BE REROUTED. SEE SHEET #C-130 FOR ADDITIONAL DETAILS.
9. EXISTING CATCH BASIN TO BE REMOVED
10. EXISTING WATER LINE TO BE PROTECTED DURING DEMOLITION
11. EXISTING SANITARY PIPE TO BE REMOVED AND REPLACED FROM EXISTING MANHOLE TO WYE CONNECTION (APPROX. LENGTH 62-FT). CONTRACTOR SHALL VERIFY ACTUAL LENGTH AND CONNECTION POINTS IN THE FIELD. SEE SHEET #C-130 FOR ADDITIONAL DETAILS.
12. EXISTING ASPHALT PAVEMENT TO BE REMOVED AND REPLACED AS NECESSARY FOR SANITARY TRENCHING. CONTRACTOR TO MATCH EXISTING GRADES OF PAVEMENT WHEN REPLACING.
13. EXISTING TRANSFORMER AND PAD TO BE REMOVED. REFER TO ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.

LEGEND:

GRAVEL TO BE REMOVED

ASPHALT TO BE REMOVED

30' 0 30' 60'

SCALE: 1"=30'

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Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
-	-/-/-	-

STATE OF OHIO
JULIO A. WILLIAMS
E-79557
REGISTERED PROFESSIONAL ENGINEER
8/20/25

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Demolition Plan

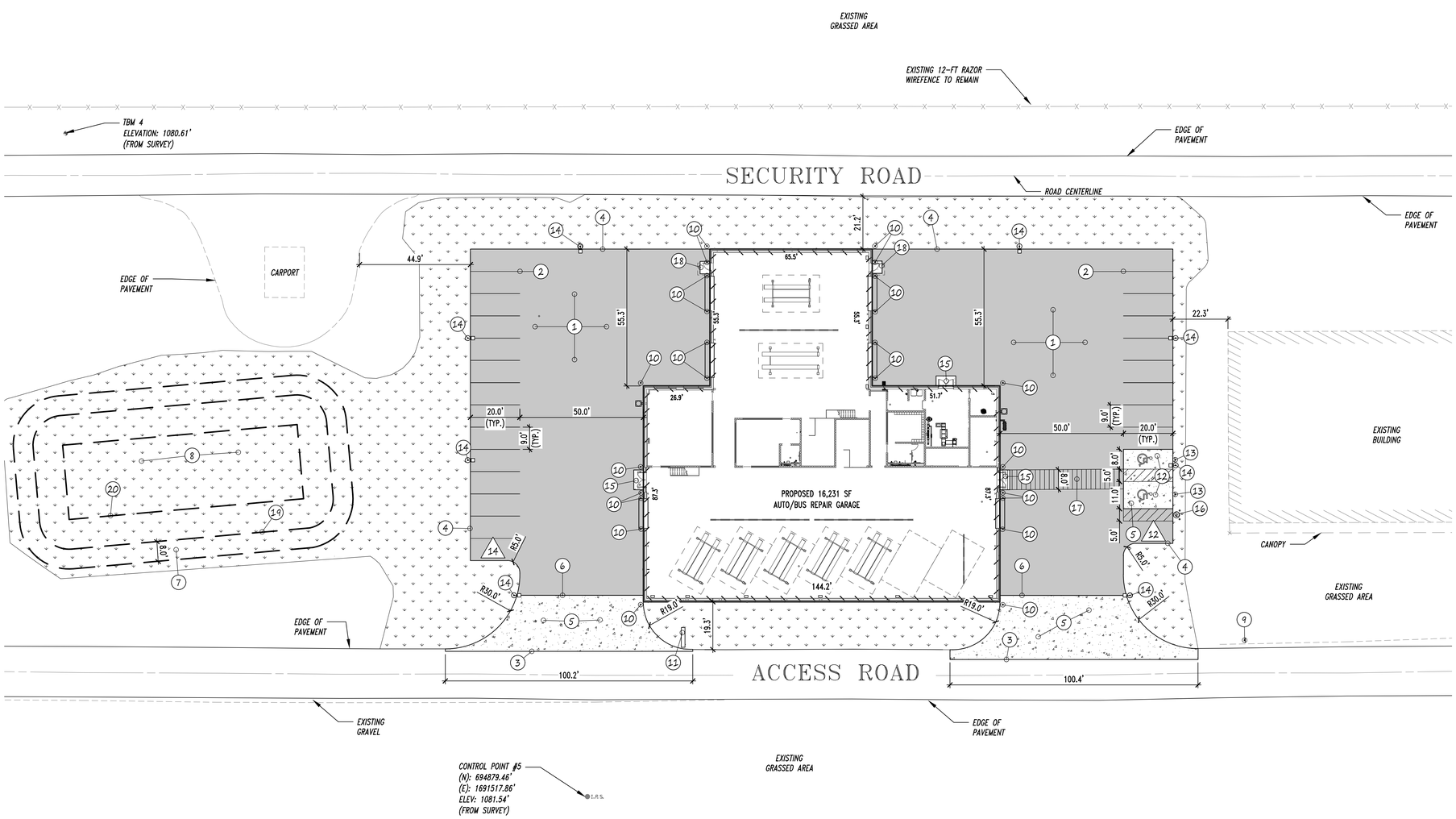
ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	-/-/-

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-100

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SITE PLAN CALLOUT NOTES

1. PROPOSED HEAVY DUTY ASPHALT (1 / C-500)
2. PROPOSED 4" (WHITE) PAINT STRIPING (TYP.) (6 / C-500)
3. MEET EXISTING PAVEMENT WITH NEW (5 / C-500)
4. PROPOSED EDGE OF PAVEMENT (2 / C-500)
5. PROPOSED HEAVY DUTY CONCRETE PAVEMENT (3 / C-500, 4 / C-500, 5 / C-501, 6 / C-501, 7 / C-501, 8 / C-501, 9 / C-501)
6. PROPOSED CONCRETE ASPHALT JOINT (5 / C-500)
7. PROPOSED POND MAINTENANCE PLATFORM
8. PROPOSED DRY DETENTION POND. SEE SHEET #C-120 FOR ADDITIONAL DETAILS.
9. PROPOSED 25 MPH RELOCATED SIGN
10. BOLLARD (TYP. OF 24) (9 / C-500)
11. MONUMENT SIGN BY OTHERS. ALTERNATE BID ITEM (REFER TO SPECIFICATIONS)
12. PROPOSED ADA PARKING STALL (7 / C-500) (8 / C-500)
13. PROPOSED ADA PARKING SIGN (10 / C-500)
14. PROPOSED SITE LIGHTING. SEE ELECTRICAL PLANS FOR ADDITIONAL DETAILS.
15. PROPOSED 8-FT X 4-FT FROST SLAB. SEE STRUCTURAL PLANS FOR ADDITIONAL DETAILS.
16. FUTURE DUAL VEHICLE EV CHARGER (BY OTHERS)
17. PROPOSED PEDESTRIAN WALKWAY - 12" SINGLE SOLID WHITE LINES, 3-FT PLACED PERPENDICULAR TO THE PEDESTRIAN DIRECTION OF TRAVEL (6 / C-500)
18. PROPOSED 5-FT X 4-FT FROST SLAB. SEE STRUCTURAL PLANS FOR ADDITIONAL DETAILS
19. TOP OF POND BANK
20. BOTTOM OF POND BANK

CONCRETE PAVEMENT NOTES:

1. MAXIMUM JOINT SPACING SHALL BE 15-FT.
2. ALL CONCRETE PANELS SHALL BE SQUARE WITH A LENGTH TO WIDTH RATIO NO GREATER THAN 1.25 TO 1. STAGGERED/OFFSET JOINTS, INTERIOR CORNERS, ANGLES LESS THAN 60 DEGREES, SLABS LESS THAN 18 INCHES WIDE, AND ODD SHAPES SHALL NOT BE PERMITTED. BLOCKOUTS AROUND ALL PAVEMENT CASTINGS SHALL BE PROVIDED IN ACCORDANCE WITH ACI RECOMMENDATIONS.
3. PAVEMENT EDGE ABUTTING EARTHEN MATERIAL SHALL BE A THICKENED EDGE PER DETAIL.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FINAL LAYOUT OF THE JOINTING WHICH COINCIDES WITH THEIR MEANS AND METHODS TO ENSURE NO UNDESIRED CRACKS FORM THROUGH ANY PLACED CONCRETE. JOINTS SHALL BE APPROPRIATELY PLACED AS SOON AS POSSIBLE TO KEEP UNNECESSARY CRACKS FROM DEVELOPING. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF THEIR PAVEMENT JOINT LAYOUT TO OWNER / CONSTRUCTION MANAGER PRIOR TO PLACEMENT FOR RECORD. THE CONTRACTOR SHALL REPLACE ANY CRACKED CONCRETE, WHICH HAS NOT BEEN PLACED/FINISHED IN ACCORDANCE WITH ACI STANDARDS, TO THE NEXT JOINT PAST THE EFFECTED AREA AT NO ADDITIONAL COST TO THE PROJECT WITHIN ONE YEAR OF PROJECT COMPLETION.
5. REFER TO SPECICIFICATIONS SECTIONS 32 13 13 & 32 13 73.

20' 0 20' 40'

SCALE: 1"=20'

LEGEND:

- PROPOSED HEAVY DUTY ASPHALT PAVEMENT (APPROX. AREA: 22,660 SF)
- PROPOSED CONCRETE PAVEMENT (APPROX. AREA: 3,225 SF)
- PROPOSED GRASSED AREA. SEE SEEDING TABLE ON SHEET #C-010 FOR ADDITIONAL DETAILS.
- #/# NUMBER OF PARKING STALLS

SITE PLAN NOTES

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF TRUCK DOCKS, EXIT DOORS, SIDEWALKS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY. CONTRACTOR SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING WITH WORK.
3. WARNING: THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE LOCATIONS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES, AND TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
4. ALL RETURN RADII AND CURB DATA ARE MEASURED TO BACK OF WEDGE CURB, AND TO THE FRONT FACE OF CONCRETE CURB UNLESS OTHERWISE NOTED.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
6. THE OWNER OR THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTORS WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
7. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
8. THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR THE OWNER'S REPRESENTATIVE, SHALL BE REPLACED AT THE CONTRACTORS EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
9. APPROVAL OF THESE PLANS IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
10. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THE JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE LOCAL PUBLIC UTILITY DEPARTMENTS FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.
12. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, RESOLUTIONS, POLICIES, AND PROCEDURES, IN GENERAL.
13. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS.
14. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SAFETY OF ALL PERSONS AND PROPERTY.
15. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED, AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE PROTECTED FROM DAMAGE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH AND/OR STRUCTURE IS FOUR FEET OR MORE IN DEPTH, ADEQUATE METHODS FOR PROTECTION OF WORKERS IS REQUIRED.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
17. THE CONTRACTOR IS REQUIRED TO HAVE COPIES OF ALL PERMITS AND PLANS ON SITE AT ALL TIMES.
18. CONTRACTOR SHALL INSTALL ACCESSIBLE RAMPS PER LOCAL MUNICIPALITY AND ADA STANDARDS AT ALL DRIVE AND BUILDING LOCATIONS AS REQUIRED.
19. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND PROPERLY DISPOSE, OFF SITE, ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL OTHER FOREIGN SUBSTANCES. REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
21. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM PROPOSED FEATURES TO EXISTING FEATURES AS NECESSARY.
22. ALL PAVEMENT JOINTS SHALL BE SAW-CUT PRIOR TO PAVING TO PROVIDE A DURABLE AND UNIFORM JOINT.
23. THE CONTRACTOR SHALL SEAL THE EDGE OF EXISTING ASPHALT PAVEMENT WITH TACK COAT IN ACCORDANCE WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT.
24. ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
25. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
26. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED DURING CONSTRUCTION BY THE CONTRACTOR, HIS SUBCONTRACTORS OR SUPPLIERS TO IT'S ORIGINAL CONDITION, AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER.
27. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE LOCAL ENGINEER, AT THE CONTRACTOR'S SOLE EXPENSE.
28. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM FAILURE TO DO SO.
29. THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, FLAGMEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY COUNTY AND STATE DEPARTMENT OF TRANSPORTATION. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, FOR DETAILS OF TRAFFIC CONTROL STANDARDS AND DEVICES.

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Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
	--/--/--	

STATE OF OHIO — JULIO A. WILLIAMS — E-79557 — 8/20/25 — REGISTERED PROFESSIONAL ENGINEER

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Site Plan

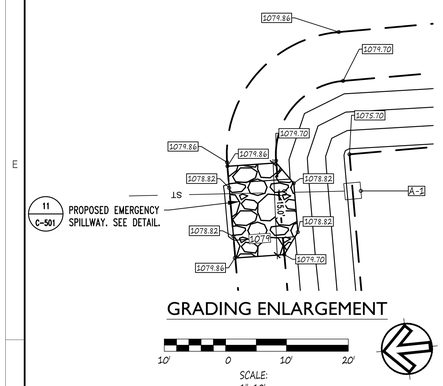
ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-110

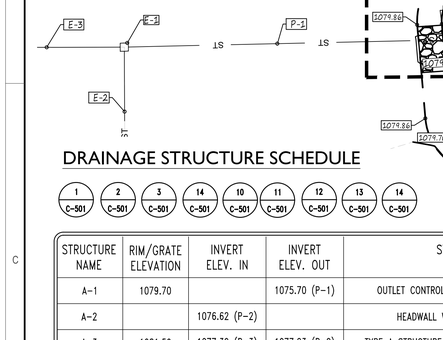
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GRADING ENLARGEMENT

10' 0 10' 20'

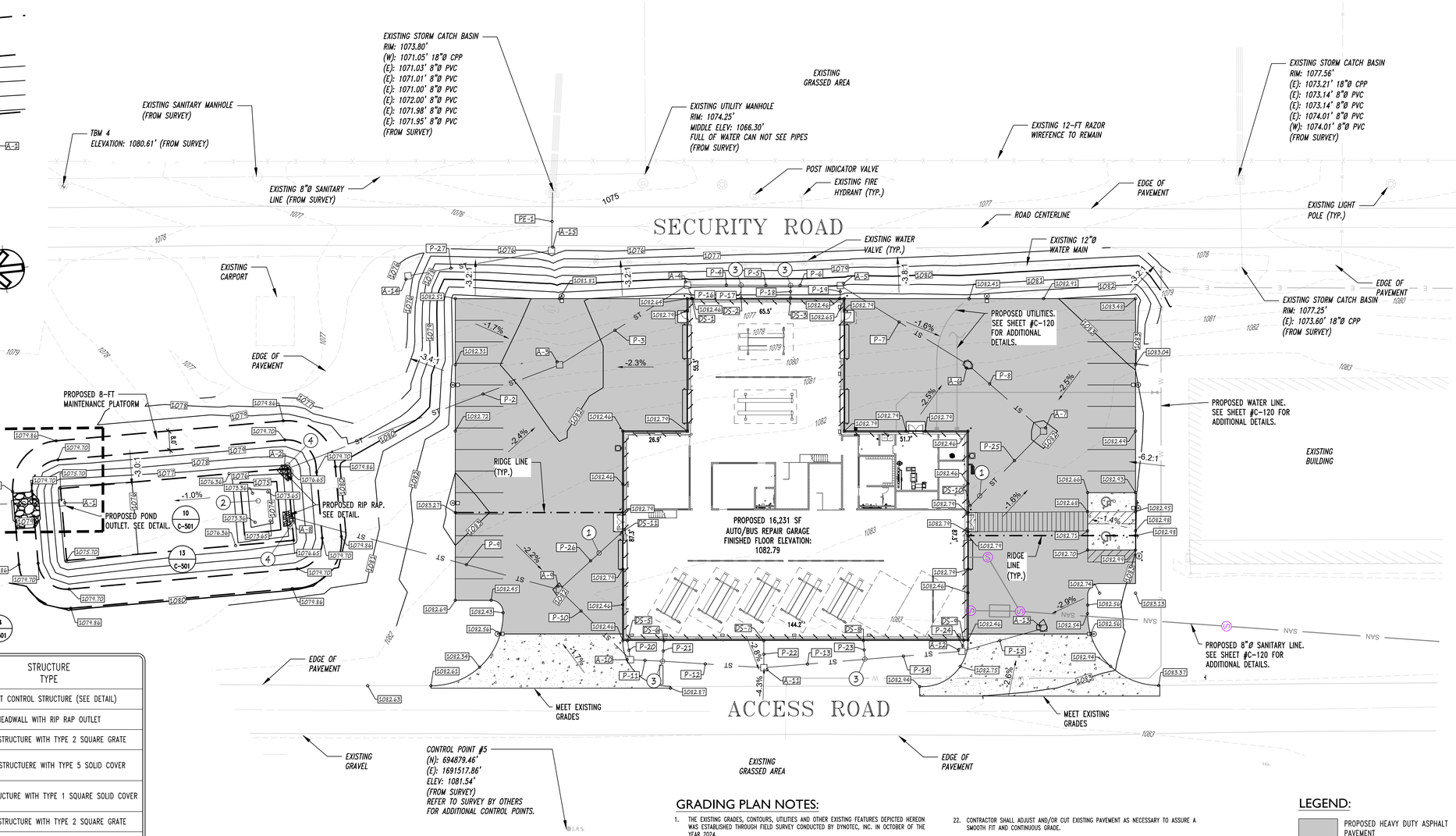
SCALE: 1"=10'



DRAINAGE STRUCTURE SCHEDULE

1 C-501 | 2 C-501 | 3 C-501 | 14 C-501 | 10 C-501 | 11 C-501 | 12 C-501 | 13 C-501 | 14 C-501

STRUCTURE NAME	RIM/GRATE ELEVATION	INVERT ELEV. IN	INVERT ELEV. OUT	STRUCTURE TYPE
A-1	1079.70		1075.70 (P-1)	OUTLET CONTROL STRUCTURE (SEE DETAIL)
A-2		1076.62 (P-2)		HEADWALL WITH RIP RAP OUTLET
A-3	1081.59	1077.30 (P-3)	1077.23 (P-2)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-4	1080.79	1077.87 (P-4) 1078.50 (P-16)	1077.77 (P-3)	TYPE A STRUCTUERE WITH TYPE 5 SOLID COVER
A-5	1080.95	1078.35 (P-7) 1078.64 (P-19)	1078.35 (P-6)	TYPE A STRUCTURE WITH TYPE 1 SQUARE SOLID COVER
A-6	1081.97	1078.82 (P-8)	1078.82 (P-7)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-7	1081.91	1079.45 (P-25)	1079.34 (P-8)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-8		1076.57 (P-9)		HEADWALL WITH RIP RAP OUTLET
A-9	1081.96	1077.25 (P-10) 1078.08 (P-26)	1077.15 (P-9)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-10	1082.64	1077.76 (P-11) 1078.50 (P-20)	1077.66 (P-10)	TYPE A STRUCTURE WITH TYPE 2 SQUARE COVER
A-11	1082.16	1078.43 (P-13) 1078.56 (P-22)	1078.33 (P-12)	TYPE A STRUCTURE WITH TYPE 1 SQUARE GRATE
A-12	1082.58	1079.37 (P-15) 1079.70 (P-24)	1079.27 (P-14)	TYPE A STRUCTURE WITH TYPE 2 SOLID COVER
A-13	1081.95		1079.72 (P-15)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-14	1075.30		1072.02 (P-27)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
A-15	1072.74	1071.11 (P-27)	1071.11 (PE-1)	TYPE A STRUCTURE WITH TYPE 2 SQUARE GRATE
DS-1			1078.79 (P-16)	DOWNSPOUT (SEE DETAIL)
DS-2			1078.79 (P-17)	DOWNSPOUT (SEE DETAIL)
DS-3			1078.79 (P-18)	DOWNSPOUT (SEE DETAIL)
DS-4			1078.79 (P-19)	DOWNSPOUT (SEE DETAIL)
DS-5			1078.79 (P-20)	DOWNSPOUT (SEE DETAIL)
DS-6			1078.79 (P-21)	DOWNSPOUT (SEE DETAIL)
DS-7			1078.79 (P-22)	DOWNSPOUT (SEE DETAIL)
DS-8			1079.79 (P-23)	DOWNSPOUT (SEE DETAIL)
DS-9			1079.79 (P-24)	DOWNSPOUT (SEE DETAIL)
DS-10			1079.90 (P-25)	DOWNSPOUT (SEE DETAIL)
DS-11			1078.79 (P-26)	DOWNSPOUT (SEE DETAIL)
E-1	1079.43	1074.46 (P-1) 1072.84 (E-3)	1074.36 (E-2)	EXISTING STORM STRUCTURE TO REMAIN



DRAINAGE PIPE SCHEDULE

5 C-502

PIPE NAME	LENGTH (FT.)	SLOPE (%)	PIPE
E-2	103.6		12" DIA. (ADS N-12)
E-3	304.4		12" DIA. (ADS N-12)
P-1	116.0	1.07%	12" DIA. (ADS N-12)
P-2	123.1	0.50%	12" DIA. (ADS N-12)
P-3	63.1	0.75%	12" DIA. (ADS N-12)
P-4	22.4	0.76%	12" DIA. (ADS N-12)
P-5	20.7	0.74%	12" DIA. (ADS N-12)
P-6	20.8	0.75%	12" DIA. (ADS N-12)
P-7	62.8	0.75%	12" DIA. (ADS N-12)
P-8	42.0	1.24%	12" DIA. (ADS N-12)
P-9	115.5	0.50%	15" DIA. (ADS N-12)
P-10	41.7	0.98%	12" DIA. (ADS N-12)
P-11	13.5	1.06%	12" DIA. (ADS N-12)
P-12	42.4	1.01%	12" DIA. (ADS N-12)
P-13	42.4	1.01%	12" DIA. (ADS N-12)
P-14	40.6	1.01%	12" DIA. (ADS N-12)
P-15	35.5	0.99%	12" DIA. (ADS N-12)
P-16	5.9	4.95%	12" DIA. (ADS N-12)
P-17	5.3	14.12%	12" DIA. (ADS N-12)
P-18	5.2	11.44%	12" DIA. (ADS N-12)

PIPE NAME	LENGTH (FT.)	SLOPE (%)	PIPE
P-19	5.2	2.90%	12" DIA. (ADS N-12)
P-20	8.0	3.63%	12" DIA. (ADS N-12)
P-21	8.5	10.46%	12" DIA. (ADS N-12)
P-22	11.2	2.02%	12" DIA. (ADS N-12)
P-23	7.8	11.87%	12" DIA. (ADS N-12)
P-24	4.6	1.97%	12" DIA. (ADS N-12)
P-25	43.7	1.03%	12" DIA. (ADS N-12)
P-26	35.4	2.00%	12" DIA. (ADS N-12)
P-27	60.9	1.50%	12" DIA. (ADS N-12)
PE-1	24.1	0.25%	18" DIA. EXISTING PIPE TO BE MODIFIED

GRADING & DRAINAGE PLAN NOTES

1. DOWNSPOUT COLLECTOR TO BE USED IF CANOPY ALTERNATE IS SELECTED. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT TIE-IN POINT.
2. PROPOSED FOREBAY. WATER QUALITY VOLUME WAS CALCULATED TO BE 3,546 CF. FOREBAY VOLUME (20% OF WQV): 709 CF. PROPOSED FOREBAY VOLUME: 1,053 CF.
3. 12-INCH HDPE TEE TO CONNECT DOWNSPOUTS TO STORMWATER LINE
4. PROPOSED HEADWALL (15 C-501)

GRADING PLAN NOTES:

1. THE EXISTING GRADES, CONTOURS, UTILITIES AND OTHER EXISTING FEATURES DEPICTED HEREON WAS ESTABLISHED THROUGH FIELD SURVEY CONDUCTED BY DYNOTEC, INC. IN OCTOBER OF THE YEAR 2024.
2. REFER TO THE SITE PLAN FOR RELATED NOTES.
3. ALL CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES.
4. ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN TEMPORARY BENCHMARKS WITHIN THE PROJECT AREA AND SHALL BE RESPONSIBLE FOR THE TRANSFER OF BENCHMARK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.
6. TOPSOIL STRIPPING DEPTH SHALL BE TAKEN AT AN AVERAGE OF 6-INCHES.
7. THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
8. LIMITS OF CLEARING SHOWN ON GRADING PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
9. THE PROPOSED CONTOURS SHOWN IN DRIVES AND PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
10. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY GRAVITY FLOW ACROSS NEW PAVEMENT AREAS TO NEW OR EXISTING DRAINAGE INLETS OR SHEET OVERLAND.
11. ANY GRADING, BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING PLAN, IS PROHIBITED.
12. LAND DISTURBANCE WITHOUT AN APPROVED EROSION & SEDIMENT CONTROL PLAN IS PROHIBITED.
13. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON DENUDED AREAS AND ESPECIALLY WHEN THE CONSTRUCTION SEQUENCE REQUIRES IT.
14. ALL GRADED AREAS ARE TO BE STABILIZED (SEEDED OR LANDSCAPED) WITHIN 14 DAYS OF HAVING REACHED FINAL GRADE.
15. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.
17. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION, ELEVATION, AND DIMENSIONS OF EXIT DOORS, RAMPS, BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
18. ALL FILL MATERIALS, EXISTING BUILDING FOUNDATIONS, PAVEMENT AND UTILITY STRUCTURES, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM WITHIN THE BEARING ZONE BELOW THE STRUCTURE.
19. ALL FOUNDATION EXCAVATION SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE TO DETERMINE WHETHER UNSUITABLE MATERIAL MUST BE REMOVED. ALL UNDESIRABLE MATERIAL SHALL BE REMOVED, BACKFILLED AND COMPACTED AS REQUIRED BY THE GEOTECHNICAL REPRESENTATIVE.
20. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED OR DEPICTED.
21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL NPDES PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
22. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
23. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
24. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER.
25. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
26. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.

ADDITIONAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY RESOURCE INTERNATIONAL INC., DATED FEBRUARY 2025.
2. PER THE GEOTECHNICAL REPORT, FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE FINAL SUITABILITY OF THE BEARING SOILS.
3. PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM OF 3-FT BELOW THE FOUNDATION BEARING ELEVATION WHERE ANY HIGH PLASTICITY SOILS ARE ENCOUNTERED AND OBSERVED TO BE IN A WET OR SOFT CONDITION. THE OVER-EXCAVATION SHALL THEN BE FOLLOWED BY BACKFILLING WITH PROPERLY PLACED AND COMPACTED GRANULAR ENGINEERED FILL OR LOW MORTAR STRENGTH (LSM).
4. PER THE GEOTECHNICAL REPORT, THE BEARING STRATA SHOULD BE CAREFULLY INSPECTED AS SOON AS POSSIBLE TO ASSURE ADEQUACY. INADEQUATE BARING SOIL (SOFT/LOOSE/ORGANIC), IF ENCOUNTERED, SHOULD BE OVER-EXCAVATED FURTHER TO EXPOSE THE UNDERLYING COMPETENT NATURAL SOILS. THE OVER EXCAVATIONS MAY THEN BE BACKFILLED WITH EITHER COMPACTED ENGINEER FILL IN ACCORDANCE WITH SECTION 4.5 OR ITEM 613 LOW STRENGTH MORTAR BACKFILL (LSM) FROM THE ODOT CONSTRUCIOTN AND MATERIALS SPECIFICATION (CMS).
5. PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL PERFORM OVER EXCAVATIONS BY EXTENDING DOWN AND OUT FROM THE BOTTOM OF THE PROPOSED FOUNDATION EDGE AT 45-DEGREE PLANE TO REMOVE THIS MATERIAL FROM THE ZONE OF INFLUENCE OF THE STRUCTURE IF ENGINEERED FILL IS USED.
6. PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL EXCAVATE BY FOLLOWING APPLICABLE OSHA STANDARDS IF LSM IS UTILIZED AS BACKFILL MATERIAL.
7. PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL KEEP FOOTINGS DRY AND CLEAN UNTIL FOOTING CONCRETE IS PLACED TO MINIMIZE DAMAGE TO THE BEARING SURFACE.
8. THE CONTRACTOR SHALL PERFORM A THOROUGH PROOF ROLL OF THE SUBGRADE MATERIAL UNDER PAVED AREAS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL OVER-EXCAVATE 24-INCHES OF SOIL FOLLOWED BY REPLACEMENT WITH ENGINEERING FILL IN ACCORDANCE WITH ODOT ITEM 203 WHERE WET OR SOFT, FAT CLAYS AND OTHER HIGH PLASTICITY SOILS ARE ENCOUNTERED. THE LIMITS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER AND QUANTIFIED. PRICING SHALL BE DETERMINED BY FIELD MEASURED QUANTITIES AND UNIT PRICING PROVIDED IN SECTION "01 22 00 – UNIT PRICES."

LEGEND:

PROPOSED HEAVY DUTY ASPHALT PAVEMENT

PROPOSED CONCRETE PAVEMENT

20' 0 20' 40'

SCALE: 1"=20'

DRAINAGE PLAN NOTES

1. A MINIMUM GRADE OF 0.50% SHALL BE MAINTAINED ON ALL PIPES, UNLESS OTHERWISE NOTED.
2. PIPE LENGTHS AND SLOPES INDICATED ON THE PLANS ARE APPROXIMATE ONLY.
3. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
4. MATERIAL USED FOR BACK-FILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
5. RESTABALIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL REGULATIONS.
6. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
7. ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
8. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE SILT AND DEBRIS.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
12. STRUCTURE TOP ELEVATIONS SHOWN HERE ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS NECESSARY.
13. RIM ELEVATIONS AS NOTED ARE TO THE GUTTER FLOW LINE.
14. LENGTHS AND PERCENT SLOPE OF SANITARY SEWERS AND STORM DRAINS, AS WELL AS ALL POTENTIAL CONFLICTS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTING SUCH ENTITIES.

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REV.	DATE	DESCRIPTION
	--/--/--	

STATE OF OHIO
JULIO A. WILLIAMS
E-29357
REGISTERED
PROFESSIONAL ENGINEER
8/29/25

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Grading & Drainage Plan

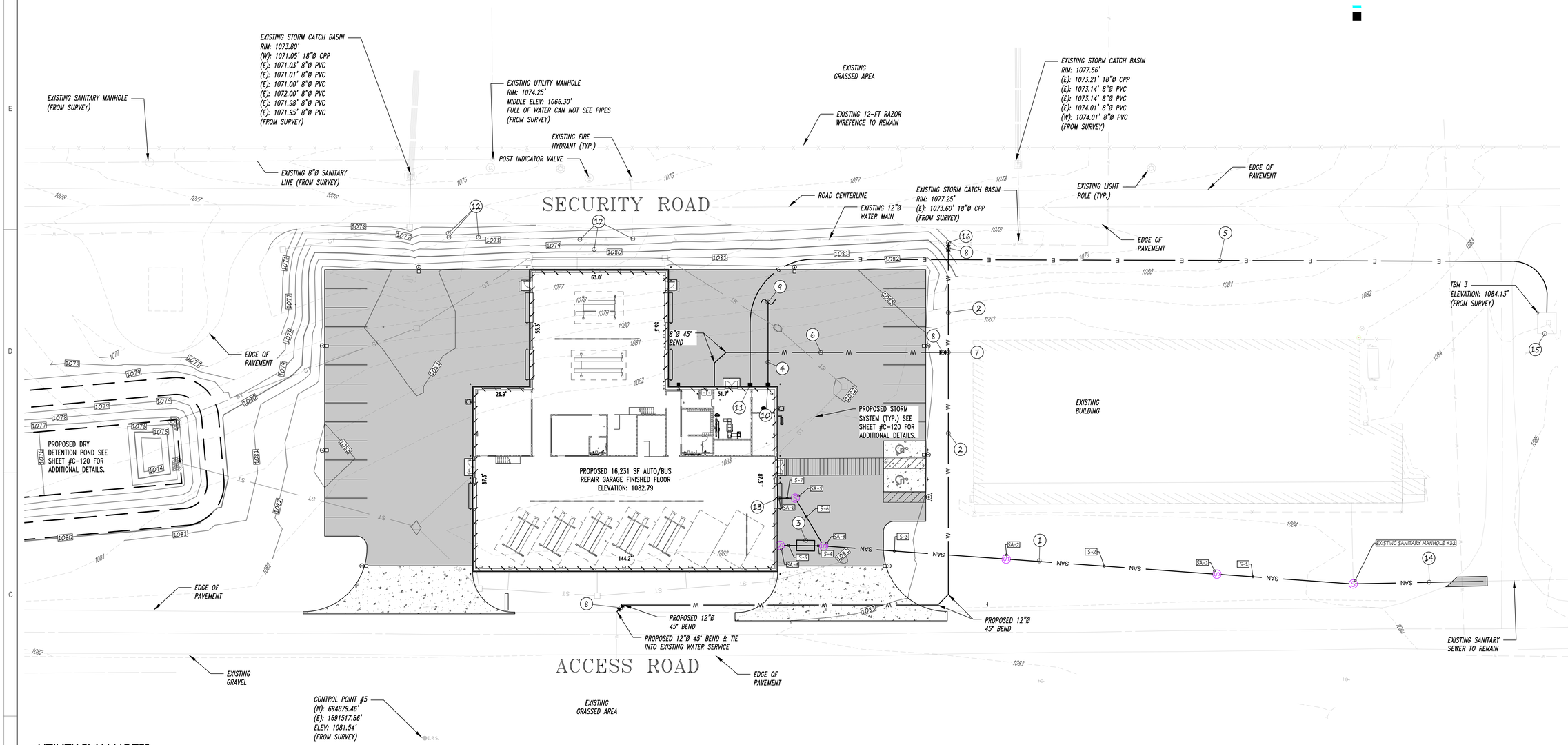
ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-120

DRAWING NAME: E:\GPD Group\2020\N24019 - LoCI - London, OH\Drawings\C-120 Grading & Drainage Plan.dwg



UTILITY PLAN NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL REQUIRED INSTALLATION AND SERVICE TAP FEES, ACCESS FEES, AND IMPACT FEES UNLESS OTHER ARRANGEMENTS ARE MADE WITH OWNER.
2. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO THE EXISTING SYSTEM IS MADE.
3. RELOCATION OR DISCONNECTS OF EXISTING UTILITIES (IF ANY) SHALL BE COORDINATED BY THE CONTRACTOR WITH ALL GOVERNING AUTHORITIES WITH RESPECT TO TIMING, REPAIRS, CHARGES, ETC. CONTRACTOR SHALL PAY ALL FEES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES AND SPECIFICATIONS OF THAT UTILITY AUTHORITY.
4. ALL SITE UTILITY LINES MUST BE TESTED AND APPROVED BY LOCAL INSPECTORS OR UTILITY AUTHORITIES AS APPLICABLE PRIOR TO COVERING OF SUCH LINES. COPIES OF UTILITY APPROVAL MUST BE FORWARDED TO THE OWNER'S REPRESENTATIVE BEFORE PAYMENT FOR WORK CAN BE AUTHORIZED.
5. THE LOCATION OF THE EXISTING UTILITIES IS BASED ON UTILITY MAPS AND AS-BUILT SURVEY DATA. THEIR LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITIES TO HAVE THE EXISTING UTILITIES MARKED PRIOR TO THE START OF CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.
6. LENGTHS AND PERCENT SLOPE OF SANITARY SEWERS AND STORM DRAINS, AS WELL AS ALL POTENTIAL CONFLICTS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTING SUCH ENTITIES.
7. REFER TO TRENCH DETAIL ON DRAWINGS FOR LIMITS OF BED AND BACKFILL. TESTING OF TRENCH BEDDING COMPACTION SHALL BE ONE FIELD DENSITY TEST PER 100-LF OF BACKFILL.
8. AS-BUILT PLANS MUST BE MAINTAINED THROUGHOUT THE PROJECT AND FURNISHED TO OWNER'S REPRESENTATIVE AFTER COMPLETION OF WORK.
9. PLUMBING CONTRACTOR SHALL CONTACT LOCAL HEALTH DEPARTMENT CONCERNING FILING OF UTILITY PLAN, AND PAYMENT OF FEES RELATED TO WATER AND SANITARY SEWER LINE CONSTRUCTION.
10. HORIZONTAL DISTANCES OF 10-FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER. A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE MAINTAINED BETWEEN ALL PIPES. IF A VERTICAL DISTANCE BETWEEN WATER AND SEWER IS LESS THAN 18-INCHES, THE SEWER PIPE MUST BE DUCTILE IRON PIPE FOR A DISTANCE OF 20-FEET, CENTERED ON THE CROSSING. NO JOINT SHALL BE WITHIN 9-FEET OF THE CROSSING.
11. EARTH BACKFILL WHERE SPECIFIED SHALL BE OF SAME MATERIAL AND COMPACTION AS APPROVED MATERIAL GENERALLY USED FOR STRUCTURAL FILL ELSEWHERE ON THE SITE.
12. PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE DETAIL PROVIDED. STONE BEDDING OR BACKFILL WHERE REQUIRED SHALL BE 3/4" TO 1.5" DIAMETER COMPACTED TO 93% MODIFIED PROCTOR. SAND SHALL BE CLEAN WITHOUT DELETERIOUS MATERIAL.
13. LIFTS NOT TO EXCEED 10" IN DEPTH AND SHALL BE MECHANICALLY COMPACTED TO OBTAIN A DENSITY NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY. THE EMBEDMENT AND BACKFILL SHALL BE WETTED TO ±2% OF OPTIMUM MOISTURE CONTENT (NO WATER JETTING IS ALLOWED).
14. THE TRENCH WALL SHALL BE SUBSTANTIALLY VERTICAL IN THE PIPE ZONE. MAXIMUM TRENCH WIDTH SHALL BE THE OUTSIDE PIPE DIAMETER + 24" AND THE MINIMUM SHALL BE THE OUTSIDE PIPE DIAMETER + 16".
15. NO ROCK SHALL BE PERMITTED IN BACKFILL IN THE ZONE FROM BOTTOM OF TRENCH TO 2-FT ABOVE THE PIPE NOR IN THE TOP 18" OF TRENCH BACKFILL AT THE GROUND SURFACE. ROCK MAY BE PLACED ELSEWHERE IN THE BACKFILL PROVIDED THE SIZE OF PIECES IN THE LARGEST DIMENSION DOES NOT EXCEED 12".
16. SLOPING OF THE TRENCH ABOVE THE PIPE ZONE WILL BE ALLOWED.
17. CONTRACTOR SHALL ADJUST ANY FRAMES AND GRATES FOR EXISTING INLETS, MANHOLES, AND VALVES TO REMAIN.
18. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
19. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE UTILITY COMPANY, AT THE CONTRACTOR'S SOLE EXPENSE.
20. WATER SERVICES SHALL BE CONSTRUCTED WITH A MINIMUM VERTICAL SEPARATION OF 18" FROM THE STORM SEWER AND SHALL HAVE A MINIMUM OF 48" OF COVER. REQUIRED VERTICAL DEFLECTION FITTINGS ARE NOT SHOWN ON THIS PLAN, AND SHALL BE INDENTIFIED, FURNISHED AND INSTALLED BY THE CONTRACTOR.

SANITARY SEWER NOTES

1. ALL JOINTS SHALL BE WATER TIGHT.
2. THE ENDS OF ALL PIPES NOT IMMEDIATELY CONNECTED FOR USE SHALL BE SECURELY CLOSED WITH MATERIALS APPROVED BY ALL GOVERNING AUTHORITIES.
3. THE INSIDE OF EVERY BUILDING SEWER CONNECTION, AFTER IT IS LAID, SHALL BE LEFT SMOOTH AND PERFECTLY CLEAN THROUGHOUT ITS ENTIRE LENGTH.
4. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PROTECT THE SEWER FROM GROUND WATER, SURFACE WATER, MUD, ANIMALS AND ANY OTHER DEBRIS ENTERING THE NEW AND EXISTING SANITARY SEWER SYSTEM.
5. NO BUILDING SEWER SHALL BE COVERED PRIOR TO INSPECTION AND APPROVAL BY ALL GOVERNING AUTHORITIES.
6. ROOF DRAINS, FOUNDATION DRAINS OR OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED.
7. FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE REPLACED OR CONNECTED TO THE STORM SEWER SYSTEM.
8. APPROVED MATERIALS:
   ** PVC PIPE SHALL CONFORM TO ASTM D-3034
   ** PVC JOINTS TO ASTM D-3034 AND D-2312.
9. SANITARY LATERALS SHALL BE CONSTRUCTED WITHOUT THE USE OF 90° BENDS AND HAVE A CLEANOUT AT 100' INTERVALS. 90° DEFLECTIONS SHALL BE ACCOMPLISHED USING TWO 45° FITTINGS WITH A MINIMUM 1' SEPARATION.

UTILITY CONTACTS

MID-OHIO WATER AND SEWER DISTRICT
3161 OLD COLUMBUS ROAD
LONDON, OHIO 43140
740-845-1702

GAS SERVICE
COLUMBIA GAS
601 MANOR PARK DRIVE
COLUMBUS, OH 43228
614-902-0309

ELECTRIC SERVICE
OHIO EDISON
420 YORK ST.
SPRINGFIELD, OH 44505
800-633-4766

CABLE/COMMUNICATION
CHARTER COMMUNICATIONS
833-487-4772

TELEPHONE SERVICE
AT&T
800-924-9420

SANITARY PIPE SCHEDULE

(5 / C-502)

PIPE NAME	LENGTH (FT.)	SLOPE (%)	PIPE
S-1	64.6	0.71%	6" DIA. SDR-35 PVC
S-2	99.9	0.71%	6" DIA. SDR-35 PVC
S-3	86.5	0.71%	6" DIA. SDR-35 PVC
S-4	4.3	0.72%	6" DIA. SDR-35 PVC
S-5	7.8	1.04%	4" DIA. SDR-35 PVC
S-6	26.3	1.25%	4" DIA. SDR-35 PVC
S-7	7.7	1.30%	4" DIA. SDR-35 PVC

SANITARY STRUCTURE SCHEDULE

(2 / C-502) (7 / C-502)

STRUCTURE NAME	RIM/GRATE ELEVATION	INVERT ELEV. IN	INVERT ELEV. OUT	STRUCTURE TYPE
EXISTING SANITARY MANHOLE #32	1084.05	1076.88 (S-1)		EXISTING SANITARY MANHOLE TO REMAIN
SA-1	1083.78	1077.44 (S-2)	1077.34 (S-1)	CLEANOUT (SEE DETAIL)
SA-2	1083.42	1078.25 (S-3)	1078.15 (S-2)	CLEANOUT (SEE DETAIL)
SA-3	1082.19	1078.86 (S-6) 1078.93 (S-4)	1078.86 (S-3)	CLEANOUT (SEE DETAIL)
SA-4	1082.44		1079.29 (S-5)	CLEANOUT (SEE DETAIL)
SA-5	1082.58	1079.19 (S-7)	1079.19 (S-6)	CLEANOUT (SEE DETAIL)
SA-6			1079.29 (S-7)	SANITARY EXIT FROM BUILDING. SEE PLUMBING PLANS FOR ADDITIONAL DETAILS.

LEGEND:

PROPOSED HEAVY DUTY ASPHALT PAVEMENT (1 / C-500)

PROPOSED CONCRETE PAVEMENT

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

UTILITY PLAN CALLOUT NOTES

1. PROPOSED 6"Ø SANITARY SERVICE (5 / C-502)
2. PROPOSED REROUTED 12"Ø C-900 WATER MAIN WITH THRUST BLOCKING (1 / C-502) (3 / C-502) (6 / C-502)
3. PROPOSED 1250-GAL OIL SEPARATOR FROM ROCKFORD SEPARATORS OR APPROVED EQUAL
4. PROPOSED GAS SERVICE. RECORDS SHOW THAT A 4-INCH DIAMETER BURIED HOUSE GAS LINE IS LOCATED APPROXIMATELY 215-FT EAST OF THE EAST BUILDING WALL, ON THE SECURE SIDE OF THE FACILITY'S SECURITY FENCE. THE REFERENCED RECORDS ARE AN AS-BUILT "SITE GAS PIPING PLAN" DATED 12/1/97. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF THAT BURIED HOUSE GAS LINE AND USE THAT AS A SOURCE FOR THE PROPOSED GAS SERVICE. THE CONTRACTOR SHALL COORDINATE WORK ON THE SECURE SIDE OF THE FACILITY'S SECURITY FENCE WITH THE OWNER'S REPRESENTATIVE. (4 / C-502)
5. PROPOSED ELECTRIC SERVICE TO PROPOSED BUILDING (4 / C-502)
6. PROPOSED 8"Ø SERVICE WATER LINE. (6 / C-502)
7. PROPOSED 12 IN X 12 IN X 8 IN TEE
8. PROPOSED GATE VALVE
9. CONTRACTOR SHALL COORDINATE RUN WITH UTILITY COMPANY
10. PROPOSED GAS METER. LOCATION TO BE DETERMINED BY UTILITY.
11. PROPOSED ELECTRIC SERVICE METER
12. ADJUST/RAISE VALVE COVERS TO PROPOSED GRADES
13. PROPOSED REDUCER. SEE PLUMBING PLANS FOR ADDITIONAL DETAILS.
14. EXISTING SANITARY PIPE TO BE REMOVED AND REPLACED FROM EXISTING MANHOLE TO WYE CONNECTION (APPROX. LENGTH 62-FT). CONTRACTOR SHALL VERIFY ACTUAL LENGTH OF PIPE AND CONNECTION POINTS IN THE FIELD. CONTRACTOR SHALL MATCH EXISTING INVERTS. (5 / C-502)
15. PROPOSED TRANSFORMER AND ELECTRIC PAD. REFER TO ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.
16. PROPOSED 12 IN X 12 IN X 12 IN TEE

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Julio A. Williams, P.E., CPESC

REV.	DESCRIPTION	DATE

STATE OF OHIO
JULIO A. WILLIAMS
E-79557
REGISTERED PROFESSIONAL ENGINEER
8/20/25

LoCI Auto Repair Garage
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London, OH 43140

Utility Plan

ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

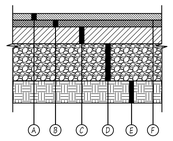
PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-130

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DIMENSION & TYPE				
ASPHALT SECTION	A (IN.)	B (IN.)	C (IN.)	D (IN.)
STANDARD DUTY	1.5	2.5	6	–
HEAVY DUTY	1.5	1.5	4.0	6.0



LEGEND:

(A) ODOT ITEM 441 – ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (PG-70-22M)

(B) ODOT ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2

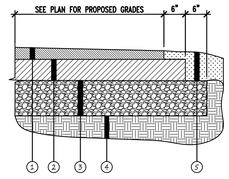
(C) ODOT ITEM 302 – ASPHALT CONCRETE BASE COURSE

(D) ODOT ITEM 304 – AGGREGATE BASE COURSE

(E) WELL DRAINED FILL/SUBGRADE COMPACTED PER GEOTECHNICAL REPORT

(F) TACK COAT 0.075 GAL/SY (ODOT ITEM 407)

1 ASPHALT PAVEMENT
NOT TO SCALE



LEGEND:

(1) PROPOSED SURFACE COURSE

(2) PROPOSED BINDER COURSE

(3) PROPOSED AGGREGATE BASE

(4) COMPACTED SUBGRADE TO 95% OF ASTM D698

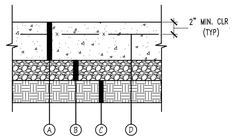
(5) RESTORATION AS REQUIRED, TOPSOIL FURNISHED AND PLACED, 4" THICK OVER COMPACTED SUBGRADE

NOTES:

1. REFER TO PAVEMENT SECTION DETAIL FOR PAVEMENT TYPES AND THICKNESS.

2 ASPHALT PAVEMENT EDGE
NOT TO SCALE

DIMENSION & TYPE		
CONCRETE SECTION	A (IN.)	B (IN.)
STANDARD DUTY	7	4
HEAVY DUTY	8	6
DUMPSTER PAD / TRUCK DOCK	8	6



LEGEND:

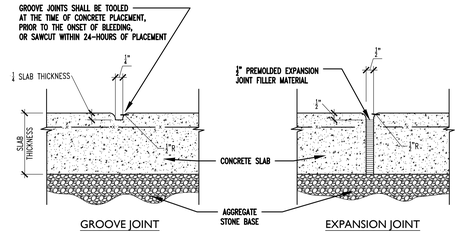
(A) ODOT ITEM 452 – NON-REINFORCED CONCRETE PAVEMENT

(B) ODOT ITEM 304 – AGGREGATE BASE

(C) WELL DRAINED FILL/SUBGRADE COMPACTED PER GEOTECHNICAL REPORT

(D) WELDED WIRE FABRIC REINFORCEMENT: 6x6–W2.9xW2.9 (OR APPROVED EQUAL)

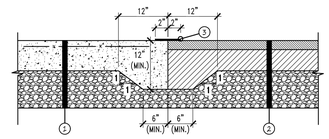
3 CONCRETE PAVEMENT
NOT TO SCALE



NOTES:

1. FILL JOINTS WITH SEALANT (SONOLASTIC SR-1) OR APPROVED EQUAL

4 CONCRETE PAVEMENT JOINTS
NOT TO SCALE



LEGEND:

(1) PROPOSED CONCRETE PAVEMENT SECTION (SEE DETAIL)

(2) PROPOSED HOT MIX ASPHALT PAVEMENT SECTION (SEE DETAIL) OR EXISTING ASPHALT PAVEMENT

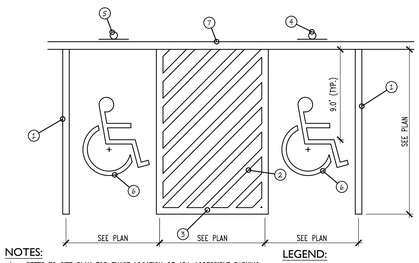
(5) SEAL JOINT WITH EMULSIFIED ASPHALT

5 ASPHALT CONCRETE TRANSITION JOINT
NOT TO SCALE

NOTES:

1. ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL.
2. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
   - 2.1. PAVEMENT MARKINGS SHALL BE PER PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D3723, D1475, D562 AND D711.
   - 2.2. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
   - 2.3. APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT. CONTRACTOR SHALL APPLY THE SECOND COAT NO SOONER THAN 30 DAYS OF APPLYING THE FIRST COAT.

6 PAVEMENT MARKING NOTES
NOT TO SCALE



NOTES:

1. REFER TO SITE PLAN FOR EXACT LOCATION OF ADA ACCESSIBLE PARKING, WALKWAYS AND RAMPS.
2. ALL WALKWAYS, RAMPS, AND ADA ACCESSIBLE PARKING SIGNAGE, ETC. SHALL MEET APPROVED AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND LOCAL ACCESSIBILITY CODE.
3. ONE OUT OF EVERY SIX (6) ADA ACCESSIBLE PARKING SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.
4. REFER TO DETAILS FOR ADJOINING ADA ACCESSIBLE RAMPS
5. ALL CONCRETE ACCESSIBLE RAMPS SHALL BE COLOR IMPREGNATED TO PROVIDE VISUAL CONTRAST (DARK TO LIGHT) WITH ADJOINING CONCRETE SURFACES (MINIMUM 70% COLOR CONTRAST).
6. THE MATERIAL USED TO PROVIDE COLOR CONTRAST IN CONCRETE ACCESSIBLE RAMPS SHALL BE AN INTEGRAL (PERMANENT) PART OF THE CONCRETE AND SHALL NOT BE PAINTED ON OR CAPABLE OF FADING OR WEARING OFF.
7. FINISHED GRADES OF PAVEMENT IN ADA ACCESSIBLE PARKING AND AISLE SHALL NOT EXCEED 1 :50 SLOPE IN ANY DIRECTION.

LEGEND:

(1) PAINTED LINES, 4" WIDE. TWO COATS REQUIRED (TYP.).

(2) PAINTED LINES, 4" WIDE AND 24" APART, CENTER TO CENTER. TWO COATS REQUIRED.

(3) ACCESSIBLE AISLE WITH MAXIMUM 1:50 SLOPE IN ANY DIRECTION

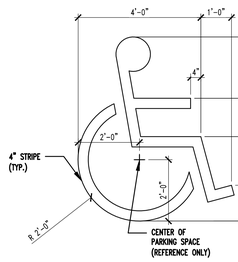
(4) 6"Ø BOLLARD WITH ADA ACCESSIBLE PARKING SIGN (MUTCD R7-8). SEE DETAIL

(5) 6"Ø BOLLARD VAN ACCESSIBLE PARKING SIGN (MUTCD R7-8AV). SEE DETAIL.

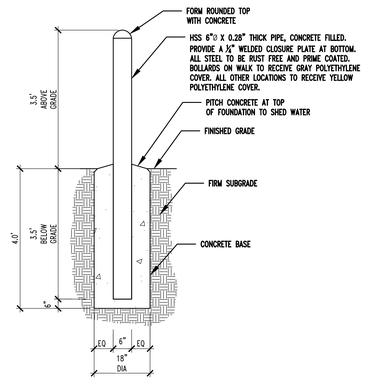
(6) INTERNATIONAL SYMBOL OF ACCESSIBILITY (SEE DETAIL)

(7) DEPRESSED CURB. REFER TO SITE PLAN AND RAMP DETAILS.

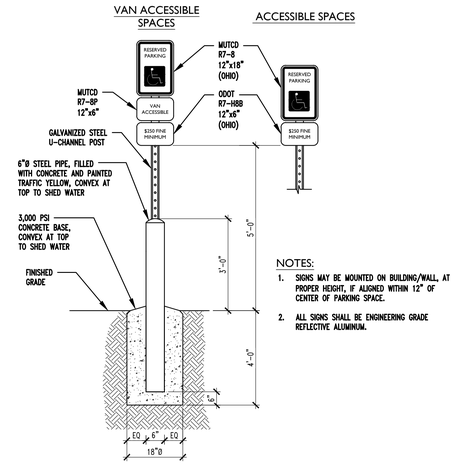
7 ADA PARKING STALL MARKINGS
NOT TO SCALE



8 ADA PAVEMENT MARKINGS
NOT TO SCALE



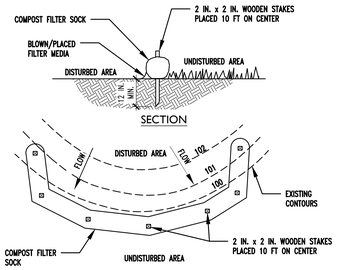
9 BOLLARD DETAIL
NOT TO SCALE



NOTES:

1. SIGNS MAY BE MOUNTED ON BUILDING/WALL, AT PROPER HEIGHT, IF ALIGNED WITHIN 12" OF CENTER OF PARKING SPACE.
2. ALL SIGNS SHALL BE ENGINEERING GRADE REFLECTIVE ALUMINUM.

10 ADA SIGNAGE
NOT TO SCALE



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

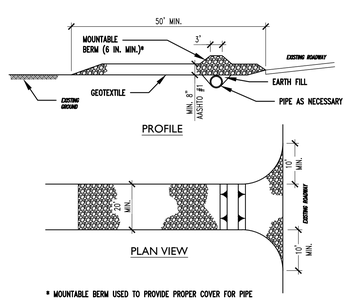
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

11 COMPOST FILTER SOCK
NOT TO SCALE



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

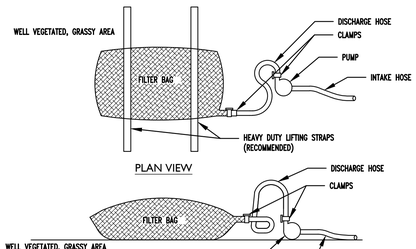
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

12 CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

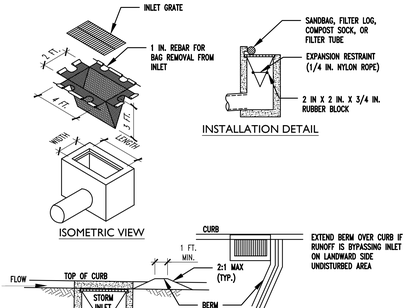
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

13 PUMPED WATER FILTER BAG
NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

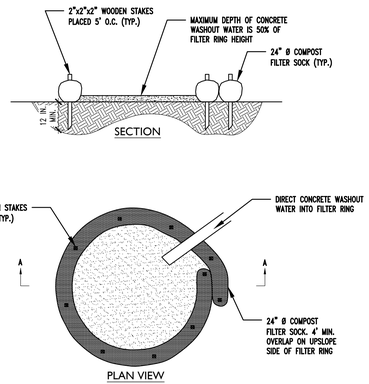
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

14 FILTER BAG INLET PROTECTION
NOT TO SCALE



NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18"Ø FILTER SOCK MAY BE STACKED ONTO DOUBLE 24"Ø SOCKS IN PYRAMID CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

15 CONCRETE WASHOUT DETAIL
NOT TO SCALE

JMW SITE DESIGN
P.O. Box 74
Canfield, OH 44406
330-422-8603
jmwsitedesign.com
Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
	--/--/--	

STATE OF OHIO — JULIO A. WILLIAMS — 79537 — REGISTERED PROFESSIONAL ENGINEER — 8/29/25

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Site Details

ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

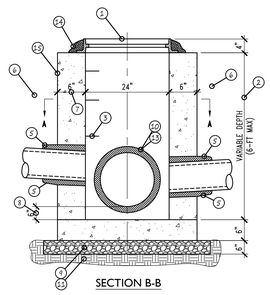
C-500

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TYPE	APPLICATION	GRATE OR COVER MODEL #	DIMENSIONS	OPEN AREA (in²)	ALLOWABLE FLOW (CFS)	DESIGN LOAD RATING	FRAME
1	SQUARE GRATE – LIGHT DUTY	5250M GRATE	23⅛" x 23⅛"	200	5.3	LGHT DUTY	V5622 FRAME (4" FRAME HEIGHT)
2	SQUARE GRATE – HEAVY DUTY	5250M GRATE	23⅛" x 23⅛"	200	5.3	HEAVY DUTY	5250Z FRAME (6" FRAME HEIGHT)
3	SQUARE ADA/BICYCLE GRATE – LIGHT DUTY	V-5622-80	23⅝" x 23⅝"	156	4.1	LGHT DUTY	V5622 FRAME (4" FRAME HEIGHT)
4	SQUARE ADA/BICYCLE GRATE – HEAVY DUTY	V-5622-80	23⅝" x 23⅝"	156	4.1	HEAVY DUTY	5250Z FRAME (6" FRAME HEIGHT)
5	SQUARE SOLID COVER – LIGHT DUTY	V6622 COVER	23⅝" x 23⅝"	N/A	N/A	LGHT DUTY	V5622 FRAME (4" FRAME HEIGHT)
6	SQUARE SOLID COVER – HEAVY DUTY	V6622 COVER	23⅝" x 23⅝"	N/A	N/A	HEAVY DUTY	5250Z FRAME (6" FRAME HEIGHT)
7	YARD SQUARE BEEHIVE DITCH GRATE	6610 GRATE	24" x 24"	280	7.4	HEAVY DUTY	V5622 FRAME (4" FRAME HEIGHT)
8	SQUARE ODOT 2-2B OR 2-3 STRUCTURES	5110M3	27½" x 27½"	301	8.9	HEAVY DUTY	NO FRAME REQUIRED
9	SQUARE ODOT 2-2B OR 2-3 STRUCTURES – ADA/BICYCLE GRATE	5110M5	27½" x 27½"	150	4.0	HEAVY DUTY	NO FRAME REQUIRED
10	ROUND GRATE LIGHT DUTY	1480M GRATE	32"Ø	275	7.3	LGHT DUTY	1480Z FRAME (4" FRAME HEIGHT)
11	ROUND GRATE HEAVY DUTY	1040M2 FLAT BAR GRATE	26"Ø	170	4.5	HEAVY DUTY	1045 FRAME (7" FRAME HEIGHT)
12	ROUND ADA/BICYCLE GRATE – LIGHT DUTY	1480M1 GRATE	32"Ø	262	6.9	LGHT DUTY	1480Z FRAME (4" FRAME HEIGHT)
13	ROUND ADA/BICYCLE GRATE – HEAVY DUTY	1040M3 ADA/BICYCLE GRATE	26"Ø	130	3.4	HEAVY DUTY	1045 FRAME (7" FRAME HEIGHT)
14	ROUND SOLID COVER LIGHT DUTY	1480A COVER	32"Ø	N/A	N/A	LGHT DUTY	1480Z FRAME (4" FRAME HEIGHT)
15	ROUND SOLID COVER HEAVY DUTY	1040A SOLID COVER	26"Ø	N/A	N/A	HEAVY DUTY	1045 FRAME (7" FRAME HEIGHT)
16	ROUND BEEHIVE GRATE	O2 BEEHIVE GRATE	26"Ø	185	4.9	HEAVY DUTY	1045 FRAME (7" FRAME HEIGHT)

MANUFACTURER: EAST JORDAN IRON WORKS (EJIW) OR APPROVED EQUAL

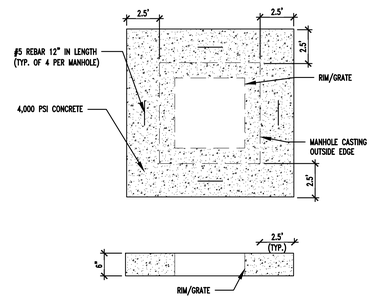
1 MANHOLE FRAME & GRATE SCHEDULE
NOT TO SCALE



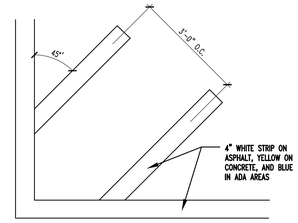
CALLOUT NOTES

1. MANHOLE FRAME & GRATE OR COVER. REFER TO DRAINAGE STRUCTURE SCHEDULE AND MANHOLE FRAME & GRATE SCHEDULE.
2. MINIMUM DEPTH SHALL BE THE OUTSIDE DIAMETER OF THE OUTLET PIPE PLUS 4-INCHES.
3. STEEL REINFORCED POLYPROPYLENE MANHOLE STEPS 12"O.C. TO BE PROVIDED WHERE DEPTH EXCEEDS 4-FT (DIST. FROM GRADE ELEVATION TO FLOW LINE).
4. O-RING GASKET (ASTM C-443)
5. USE NON-SHRINK GROUT FOR INTERIOR & EXTERIOR PATCHING TO CREATE A WATER TIGHT CONNECTION AT JOINTS BETWEEN PRECAST SECTIONS (TYP.)
6. COMPACT BACKFILL TO 97% STANDARD PROCTOR MAXIMUM DENSITY
7. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" AND BE SUFFICIENTLY REINFORCED TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
8. BASE SECTION TO HAVE A 6" MINIMUM SUMP
9. MANHOLES MUST BE SET ON FOUNDATION OF CRUSHED AASHTO NO. 57 LIMESTONE, 6" MINIMUM THICKNESS.
10. SIZE OF OPENING: PIPE OUTSIDE DIAMETER + 2"
11. SUBGRADE BENEATH STRUCTURE SHALL BE LEVELED AND COMPACTED PRIOR TO INSTALLING STRUCTURE
12. NON-SHRINK GROUT ON INTERIOR AND EXTERIOR OF CONNECTION
13. MAXIMUM PIPE SIZE IS 21"
14. THE FRAME SHALL BE SET ON A MASTIC STRIP AROUND ITS PERIMETER AND MORTARED TO THE SEAT OF THE CONCRETE STRUCTURE
15. EXPOSED EDGES OF CONCRETE SHALL BE ROUNDED WITH A ¾" RADIUS (TYP.)

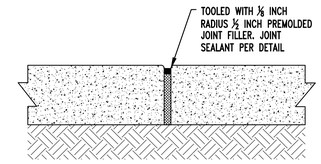
2 STORM MANHOLE - TYPE A
NOT TO SCALE



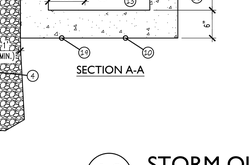
3 MANHOLE COVER CONCRETE PAD
NOT TO SCALE



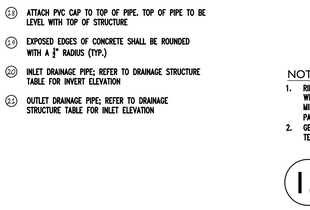
4 TRANSVERSE STRIPING DETAIL
NOT TO SCALE



5 CONCRETE ISOLATION JOINT
NOT TO SCALE



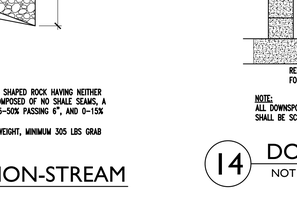
6 THICKENED CONCRETE PAVEMENT EDGE
NOT TO SCALE



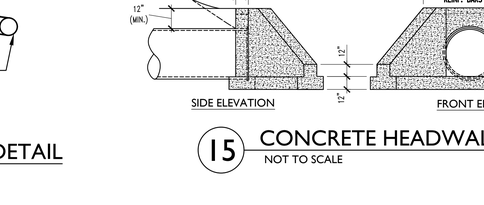
NOTE:

1. SEALANT DEPTH AND WIDTH SHALL CONFORM TO SEALANT MANUFACTURER'S RECOMMENDATIONS.

7 JOINT SEALANT WITH BACKER ROD
NOT TO SCALE



8 CONCRETE JOINT FILLING DETAIL
NOT TO SCALE

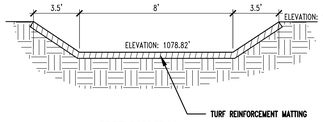


9 CONCRETE ISOLATION JOINT WITH THICKENED EDGE
NOT TO SCALE

NOTES:

1. PRIOR TO INSTALLATION OF PERMANENT OUTLET CONTROL STRUCTURE ALL SEDIMENT SHALL BE REMOVED AND DETENTION BASIN SHALL BE RESTORED TO ITS DESIGN DIMENSIONS PER THE GRADING PLAN AND SEEDED AND MULCHED.

12 POST CONSTRUCTION POND DETAIL
NOT TO SCALE

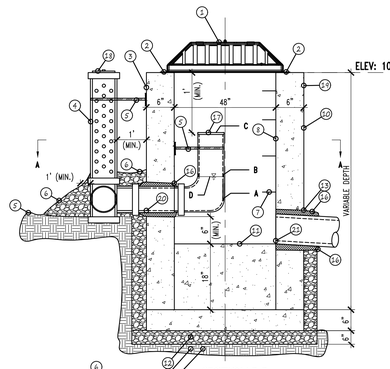


SECTION VIEW

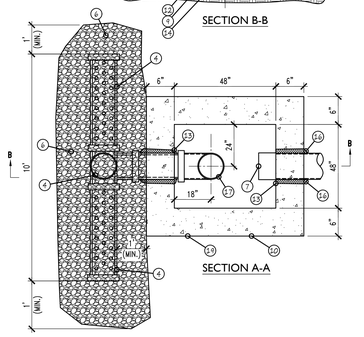
NOTES:

1. TURF REINFORCEMENT MATTING SHALL BE NORTH AMERICA GREEN, VMAX SC250, ARMORMAX ANCHORED REINFORCED VEGETATION SYSTEM, OR APPROVED EQUAL.

11 EMERGENCY SPILLWAY DETAIL - TURF
NOT TO SCALE



ORIFICE CONFIGURATION TABLE FOR PROPOSED OUTLET STRUCTURE			
INVERT LABEL	ORIFICE DIAMETER (IN.)	# OF ORIFICE OPENINGS	INVERT ELEVATION
A	0.80	1	1075.70
B	7.5	2	1077.51
C	12.0	1	1078.70
D	WATER QUALITY VOLUME ELEVATION		1077.44



CALLOUT NOTES

1. 48" SQUARE TOP-MOUNT TRASH RACK WITH HINGED ACCESS (HDPE OR GALVANIZED STEEL)
2. FASTEN TRASH RACK TO MANHOLE FOLLOWING MANUFACTURER INSTRUCTIONS
3. MANHOLE SHALL BE 48" SQUARE MINIMUM, INSIDE DIMENSION, PRE-CAST CONCRETE CONFIRMING TO ASTM C-478
4. 12"Ø SCHEDULE 35 PVC PERFORATED PIPE WRAPPED WITH FILTER CLOTH. PERFORATIONS SHALL BE 1"Ø x 8 HOLES PER ROW @ 6" MAX ROW SPACING. NO FILTER FABRIC SHALL BE APPLIED TO THE VERTICAL SECTION.
5. FASTEN VERTICAL PIPES WITH GALVANIZED PIPE CLAMPS, RODS, & BRACKETS TO RISER WALL
6. PLACE AASHTO #1 STONE OVER PERFORATED PIPE.
7. STEEL REINFORCED POLYPROPYLENE MANHOLE STEPS 12"O.C. TO BE PROVIDED WHERE DEPTH EXCEEDS 4-FT (DIST. FROM GRADE ELEVATION TO FLOW LINE).
8. USE NON-SHRINK GROUT FOR INTERIOR & EXTERIOR PATCHING TO CREATE A WATER TIGHT CONNECTION AT JOINTS BETWEEN PRECAST SECTIONS. INCLUDE ASTM C-443 COMPLIANT O-RING GASKETS BETWEEN JOINTS (TYP.)
9. COMPACT BACKFILL TO 97% STANDARD PROCTOR MAXIMUM DENSITY
10. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" AND BE SUFFICIENTLY REINFORCED TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
23. ANTI-FLOTATION CONCRETE FILL AT 18" DEEP
22. MANHOLES MUST BE SET ON FOUNDATION OF CRUSHED AASHTO NO. 57 LIMESTONE, 6" MINIMUM THICKNESS.
13. SIZE OF OPENING: PIPE OUTSIDE DIAMETER + 2"
24. SUBGRADE BENEATH STRUCTURE SHALL BE LEVELED AND COMPACTED PRIOR TO INSTALLING STRUCTURE
25. REFER TO PLANS FOR PROPOSED TOPSOIL DEPTH WITHIN THE POND
16. NON-SHRINK GROUT ON INTERIOR AND EXTERIOR OF CONNECTION
17. 12"Ø SCHEDULE 40 PVC PIPE PERFORATED PURSUANT TO THE ORIFICE CONFIGURATION TABLE
18. ATTACH PVC CAP TO TOP OF PIPE. TOP OF PIPE TO BE LEVEL WITH TOP OF STRUCTURE
19. EXPOSED EDGES OF CONCRETE SHALL BE ROUNDED WITH A ¾" RADIUS (TYP.)
20. INLET DRAINAGE PIPE; REFER TO DRAINAGE STRUCTURE TABLE FOR INVERT ELEVATION
21. OUTLET DRAINAGE PIPE; REFER TO DRAINAGE STRUCTURE TABLE FOR INLET ELEVATION

10 STORM OUTLET MANHOLE A-2
NOT TO SCALE

NOTES:

1. RIP RAP SHALL BE COMPOSED OF WELL GRADED ROCK WITH HARD ANGULAR SHAPED ROCK HAVING NEITHER WIDTH NOR THICKNESS LESS THAN ONE-THIRD ITS LENGTH. IT SHALL BE COMPOSED OF NO SHALE SEAMS, A MINIMUM SPECIFIC GRAVITY OF 2.5, WITH GRADATION 100% PASSING 12", 15-50% PASSING 6", AND 0-15% PASSING 2".
2. GEOTEXTILE SHALL BE NON-WOVEN NEEDLE PUNCHED, MINIMUM 12 OZ/SY WEIGHT, MINIMUM 305 LBS GRAB TENSILE STRENGTH, AND MAXIMUM 0.15 MM APPARENT OPENING SIZE.

13 RIP RAP OUTLET - NON-STREAM
NOT TO SCALE

NOTE:
ALL DOWNSPOUT COLLECTOR PIPE SHALL BE SCHEDULE 40 PVC OR HDPE

14 DOWNSPOUT DETAIL
NOT TO SCALE

PIPE DIA. (IN.)	L (FT.)	W (FT.)	A (IN.)
15	4.0	4.0	12
18	4.0	4.0	12
24	4.5	4.25	12
36	4.5	4.25	12
48	5.0	4.25	12

NOTES:

1. CONCRETE SHALL BE 4,000 PSI, 6±1% AIR ENTRAINED
2. EXPOSED EDGES SHALL BE CHAMFERED (1) INCH.
3. DIMENSIONS SHOWN ARE MINIMAL AND SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS.

15 CONCRETE HEADWALL
NOT TO SCALE

JMW SITE DESIGN
P.O. Box 74
Canfield, OH 44406
330-422-8603
jmwsitedesign.com
Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
	--/--/--	

STATE OF OHIO — JULIO A. WILLIAMS — 79557 — REGISTERED PROFESSIONAL ENGINEER — 8/22/25

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Site Details

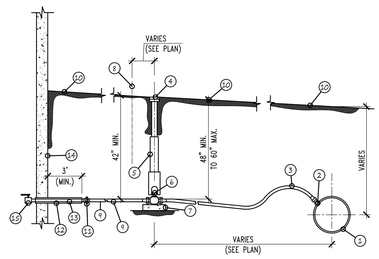
ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-501

DRAWING NAME: E:\GPD Group\2024\N24019 - LoCI - London, OH\Drawings\C-501 Site Details.dwg



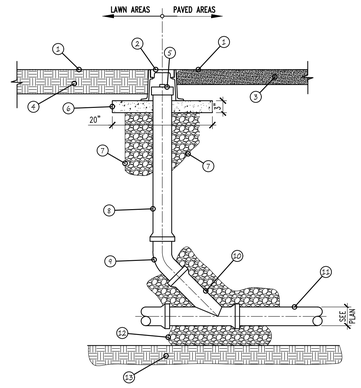
NOTES

1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS.
2. CONTRACTOR SHALL INSTALL HDPE PIPE STIFFENERS AT ALL CRITICAL JOINING LOCATIONS (CORP. STOP, CURB STOP, COUPLINGS, AND VALVES.

CALLOUT NOTES

1. WATER MAIN
2. CORPORATION STOP TAPPED AT 45° FROM HORIZONTAL AND/OR IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS
3. GOOSENECK
4. THREE-PIECE CAST IRON ADJUSTABLE WATER SERVICE BOX WITH LID AND FRAME. SEE UTILITY PLAN FOR LOCATION.
5. EXTENSION TYPE CURB BOX, CENTER AND PLUMB OVER CURB STOP VALVE
6. CURB STOP
7. 6"x 6"x 3" SOLID CONCRETE BLOCK ON FIRM AND LEVELED GROUND
8. RIGHT-OF-WAY BOUNDARY
9. PLASTIC WATER SERVICE PIPE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE WATER SERVICE TUBING, PE3408 (200 PSI WORKING PRESSURE)
10. FINISHED GRADE
11. PIPE COUPLING
12. POLYETHYLENE SLEEVE THROUGH WALL – PLUG BOTH ENDS
13. COPPER PIPE TO THE METER SETTING IF METER IS LOCATED INSIDE THE BUILDING. OTHERWISE USE PLASTIC PIPE.
14. BUILDING WALL
15. LAND OWNER'S VALVE

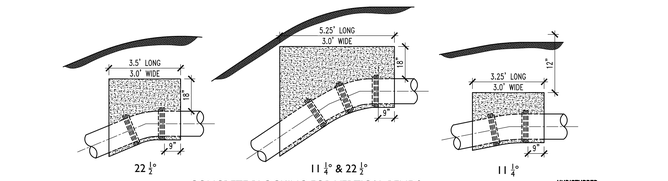
1 WATER SERVICE DETAIL
NOT TO SCALE



CALLOUT NOTES

1. FINISHED GRADE
2. CASTING FRAME AND COVER SHALL BE HEAVY DUTY WITH "S" MARKING ON COVER (EAST JORDAN IRON WORKS MODEL #1565 OR APPROVED EQUAL). PLACED ON A LEVEL CONCRETE PAD.
3. CONCRETE OR PAVEMENT DEPTH (REFER TO APPROPRIATE DETAILS)
4. 6" TOPSOIL DEPTH IN UNPAVED AREAS
5. GASKETED CLEANOUT CAP SET 4" – 6" BELOW FINISHED GRADE
6. LEVEL CONCRETE PAD WITH DIMENSIONS 20"x 20"x 3" TO SERVE AS BASE OF CASTING FRAME AND COVER
7. 6" AASHTO NO. 57 BACKFILL ALL AROUND VERTICAL PIPE
8. DIAMETER AND MATERIAL OF VERTICAL PIPE SAME AS SERVICE LATERAL
9. 45° FITTING
10. WYE FITTING
11. SERVICE LATERAL. SEE PLAN FOR INVERTS
12. 6" GRANULAR BEDDING USING AASHTO NO. 57 STONE
13. SUBGRADE SHALL BE LEVELED AND COMPACTED PRIOR TO INSTALLATION

2 SANITARY CLEANOUT
NOT TO SCALE



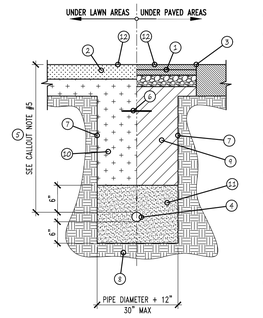
CONCRETE BLOCKING FOR HORIZONTAL BENDS

NOTES

1. THRUST BLOCKS REQUIRED AT ALL BENDS.
2. ALL CONCRETE FOR THRUST BLOCKS SHALL HAVE 4,000 PSI 28-DAY COMPRESSIVE STRENGTH.
3. THE FACE OF EACH BLOCK MUST BE PERPENDICULAR TO THE LINE OF THRUST.
4. CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH ON THE THRUST SIDE.
5. USE FORMS WHEN POURING CONCRETE TO MAINTAIN SHAPE AND DIMENSIONS OF THRUST BLOCKS.
6. FITTINGS TO BE FULLY WRAPPED WITH 4 MIL PLASTIC TO PREVENT CONCRETE CONTACTING BOLTS, GLANDS, AND NUTS.

PIPE SIZE (IN.)	BENDS									
	DEGREE OF BEND									
	11 1/4°		22 ½°		45°		90°		PLUG	
	L (IN.)	D (IN.)	L (IN.)	D (IN.)	L (IN.)	D (IN.)	L (IN.)	D (IN.)	L (IN.)	D (IN.)
3, 4, 6	12	14	12	14	20	14	36	14	10	22
8	14	16	14	16	24	16	50	16	12	24
10	18	18	18	18	28	18	56	18	14	26
12	22	20	22	20	30	20	60	20	16	28
16	24	24	24	24	33	24	70	24	20	32

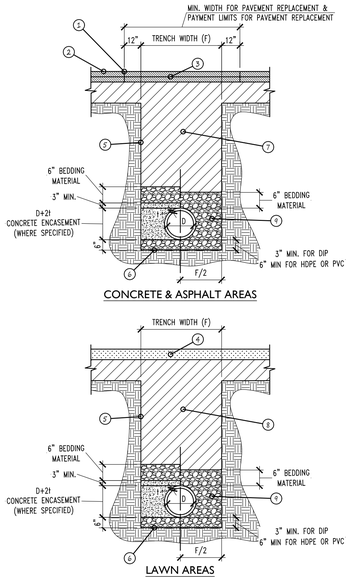
3 WATER - THRUST BLOCK DETAILS (UP TO 16 IN DIA)
NOT TO SCALE



CALLOUT NOTES

2. REFER TO PROPOSED PAVEMENT SECTION DETAILS
2. PLACE A MINIMUM 4" OF TOPSOIL OVER COMPACTED TRENCH BACKFILL
3. REFER TO PAVEMENT TRANSITION DETAILS
4. ELECTRIC SERVICE: PROPOSED 4"Ø SCHEDULE 80 PVC UNDER PAVED AREAS; USE SCHEDULE 40 PVC UNDER LAWN AREAS.
   ALL OTHER UTILITIES: REFER TO LOCAL UTILITY REQUIREMENTS FOR MATERIAL TYPE AND PIPE SIZE
5. ELECTRIC SERVICE: 24" MINIMUM COVER
   ALL OTHER UTILITIES: REFER TO LOCAL UTILITY REQUIREMENTS FOR MINIMUM BURIAL DEPTHS
6. WARNING TAPE WITH METALLIC LOCATOR STRIP TO BE INSTALLED 12" BELOW PROPOSED GRADE WITH ELECTRIC CONDUIT ONLY
7. TRENCH WALLS LAID BACK AND/OR SUPPORTED PER OSHA REQUIREMENTS (TYP.)
8. UNSUITABLE MATERIAL BELOW THE EXCAVATED TRENCH BOTTOM SHALL BE REMOVED, WHERE DIRECTED, AND REPLACED WITH AASHTO NO 57 AGGREGATE
9. TRENCH BACKFILL UNDER PAVED AREAS: WELL GRADED INORGANIC GRANULAR SOILS AND/OR ROCK, MAX 1.5" SIZE, NOT MORE THAN 20% BY WEIGHT PASSING #200 SIEVE (I.E. ODOT 304 LIMESTONE, OR PENNDOT 2A), COMPACTED TO MIN. 95% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
10. TRENCH BACKFILL UNDER LAWN AREAS: THE SELECT MATERIAL SHALL BE EXCAVATED MATERIAL THAT IS FREE FROM CLODS, FROZEN MATERIAL, DEBRIS AND STONES IN EXCESS OF THREE INCHES. SUCH SELECT MATERIAL SHALL BE HAND SHOVELED FROM THE EXCAVATED MATERIAL WITH CARE TAKEN TO EXCLUDE CLODS, STONES IN EXCESS OF THREE INCHES, FROZEN MATERIAL AND DEBRIS. MATERIAL SHALL BE COMPACTED TO MIN. 90% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
12. AASHTO NO. 8 COURSE AGGREGATE OR BANK SAND; FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER (COMPACTED IN 6" MAX LIFTS)
12. PROPOSED GRADES

4 TRENCH - UTILITY GENERAL
NOT TO SCALE



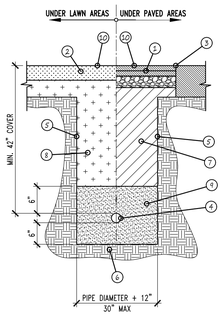
PIPE DIAMETER/TRENCH WIDTH TABLE

D (in.)	F (in.)	D (in.)	F (in.)
6	30	24	48
8	30	27	52
10	30	30	56
12	32	36	64
15	36	42	72
18	40	48	80
21	44	60	96

CALLOUT NOTES

1. NEATLY SEAL AND SAWCUT JOINT
2. EXISTING PAVEMENT
3. IN PAVED AREAS ONLY: REFER TO DETAILS FOR PROPOSED PAVEMENT SECTION DETAILS
4. IN LAWN AREAS ONLY: PLACE A MINIMUM 4" OF TOPSOIL OVER COMPACTED TRENCH BACKFILL
5. TRENCH WALLS LAID BACK AND/OR SUPPORTED PER OSHA REQUIREMENTS (TYP.)
6. UNSUITABLE MATERIAL BELOW THE EXCAVATED TRENCH BOTTOM SHALL BE REMOVED, WHERE DIRECTED, AND REPLACED WITH AASHTO NO 57 AGGREGATE
7. TRENCH BACKFILL UNDER PAVED AREAS: WELL GRADED INORGANIC GRANULAR SOILS AND/OR ROCK, MAX 1.5" SIZE, NOT MORE THAN 20% BY WEIGHT PASSING #200 SIEVE (I.E. ODOT 304, OR PENNDOT 2A), COMPACTED TO MIN. 95% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
8. TRENCH BACKFILL UNDER LAWN AREAS: THE SELECT MATERIAL SHALL BE EXCAVATED MATERIAL THAT IS FREE FROM CLODS, FROZEN MATERIAL, DEBRIS AND STONES IN EXCESS OF THREE INCHES. SUCH SELECT MATERIAL SHALL BE HAND SHOVELED FROM THE EXCAVATED MATERIAL WITH CARE TAKEN TO EXCLUDE CLODS, STONES IN EXCESS OF THREE INCHES, FROZEN MATERIAL AND DEBRIS. MATERIAL SHALL BE COMPACTED TO MIN. 90% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
9. AASHTO NO. 8 OR NO. 57 COARSE AGGREGATE (COMPACTED IN 6" MAX LIFTS)

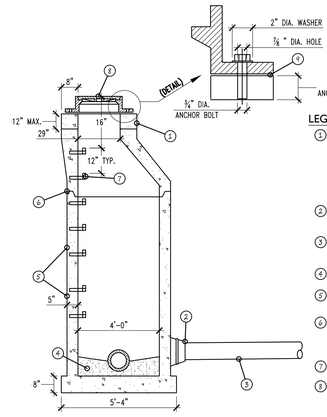
5 STORM AND SANITARY TRENCH
NOT TO SCALE



CALLOUT NOTES

2. REFER TO PROPOSED PAVEMENT SECTION DETAILS
2. PLACE A MINIMUM 4" OF TOPSOIL OVER COMPACTED TRENCH BACKFILL
3. REFER TO PAVEMENT TRANSITION DETAILS
4. PROPOSED WATER SERVICE
5. TRENCH WALLS LAID BACK AND/OR SUPPORTED PER OSHA REQUIREMENTS (TYP.)
6. UNSUITABLE MATERIAL BELOW THE EXCAVATED TRENCH BOTTOM SHALL BE REMOVED, WHERE DIRECTED, AND REPLACED WITH AASHTO NO 57 AGGREGATE
7. TRENCH BACKFILL UNDER PAVED AREAS: WELL GRADED INORGANIC GRANULAR SOILS AND/OR ROCK, MAX 1.5" SIZE, NOT MORE THAN 20% BY WEIGHT PASSING #200 SIEVE (I.E. ODOT 304 LIMESTONE, OR PENNDOT 2A), COMPACTED TO MIN. 95% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
8. TRENCH BACKFILL UNDER LAWN AREAS: THE SELECT MATERIAL SHALL BE EXCAVATED MATERIAL THAT IS FREE FROM CLODS, FROZEN MATERIAL, DEBRIS AND STONES IN EXCESS OF THREE INCHES. SUCH SELECT MATERIAL SHALL BE HAND SHOVELED FROM THE EXCAVATED MATERIAL WITH CARE TAKEN TO EXCLUDE CLODS, STONES IN EXCESS OF THREE INCHES, FROZEN MATERIAL AND DEBRIS. MATERIAL SHALL BE COMPACTED TO MIN. 90% STANDARD PROCTOR DENSITY. PLACEMENT SHALL BE IN 4" TO 8" LOOSE LIFTS OR 18" WITH HOE MOUNTED PLATE TAMPER.
9. AASHTO NO. 8 COURSE AGGREGATE OR BANK SAND; FREE OF SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER (COMPACTED IN 6" MAX LIFTS)
10. PROPOSED GRADES

6 TRENCH - WATER SERVICE
NOT TO SCALE



NOTES:

1. MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244-93 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE (VACUUM) TEST.

LEGEND:

1. ADJUST CASTING TO GRADE WITH PRECAST CONCRETE RISER RING AND SEAL WITH MASTIC. CONCRETE AND BRICK ARE NOT TO BE USED. FINISHED GRADE TO SLOPE AWAY FROM MANHOLE. ALLOW NO WATER TO STAND ON OR AROUND THE MANHOLE COVER.
2. WATERTIGHT GASKETED FLEXIBLE CONNECTION (ALL INLETS & OUTLETS)
3. SHALL BE LAID IN A BED OF SIX (6) INCHES ABOVE AND BELOW THE PIPE WITH #57 CRUSHED STONE.
4. 4,000 PSI CONCRETE
5. ASPHALTIC FOUNDATION COATING FOR ALL MANHOLE TYPES
6. ASTM C443-79 RUBBER GASKET JOINT OR MASTIC STRIPS IN JOINTS. EXTERIOR OF JOINTS TO BE SEALED WITH BITUMINOUS MATERIAL.
7. MH STEPS
8. NEENAH #R-1753-A, OR EAST JORDAN #1890 OR EQUAL CAST IRON FRAME AND COVER. FRAME TO BE BOLTED TO THE CONE OF THE MANHOLE. ALL COVER SHALL BEAR THE WORDS "SANITARY SEWER" IN RAISED LETTERS.
9. MASTIC STRIPS TO BE PLACED ON BOTH SIDES OF THE LUGS.

7 SANITARY MANHOLE
NOT TO SCALE

JMW SITE DESIGN
P.O. Box 74
Canfield, OH 44406
330-422-8603
jmwsitedesign.com

Contact:
Julio A. Williams, P.E., CPESC

REV.	DATE	DESCRIPTION
-	-/-/-	

STATE OF OHIO
JULIO A. WILLIAMS
E-79557
12/2/25
REGISTERED
PROFESSIONAL ENGINEER

LoCI Auto Repair Garage
1580 OH-56
London, OH 43140

Site Details

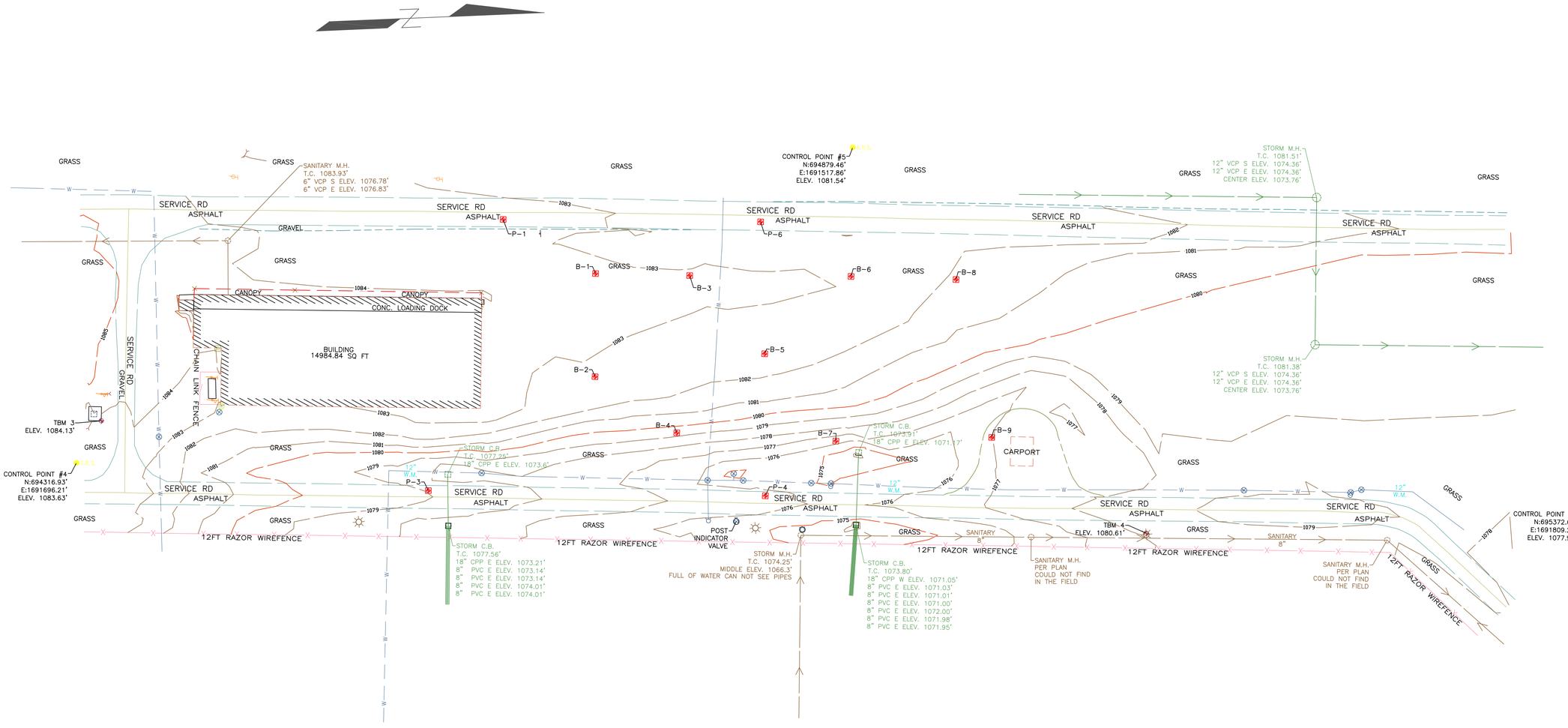
ISSUED FOR:	
PERMIT	08/25/25
BID	08/25/25
CONSTRUCTION	07/31/25
RECORD	-/-/-

PROJECT MANAGER	DESIGNER
JAW	CEB

JMW JOB NO.
N24019

C-502

DRAWING NAME: E:\GPD Group\2024\N24019 - LoCI - London, OH\Drawings\C-502 Site Details.dwg



DYNOTEC
2931 E. DUBLIN-GRANVILLE ROAD, SUITE 200
COLUMBUS, OHIO 43231
MAIN: (614) 880-7320
FAX: (614) 880-7324
www.dynotecinc.com

SHEET 1 OF 2

EXISTING CONDITIONS EXHIBIT
LONDON CORRECTIONAL AUTO GARAGE
1580 OH-56, LONDON, OHIO, 43140

PROJECT NO:	240069
DATE:	11/30/2025
DRAFTED	ZA
CHECKED	CC
APPROVED	CC
SCALE	SCALE: 1" = 40' (0, 40, 80, 160)

SURVEY NOTES

BASIS OF HORIZONTAL CONTROL
HORIZONTAL COORDINATES ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE, NAD 83 (2011 ADJUSTMENT), US SURVEY FEET. HORIZONTAL CONTROL POINT LOCATIONS AND DESCRIPTIONS ARE AS SHOWN UPON THE OVERALL EXISTING CONDITIONS SITE PLAN PREPARED BY DYNOTEC IN OCTOBER OF 2024.

BASIS OF VERTICAL CONTROL
VERTICAL COORDINATES ARE BASED ON THE NAVD 88 DATUM, US SURVEY FEET (GEOID 18). VERTICAL BENCHMARK LOCATIONS AND DESCRIPTIONS ARE AS SHOWN UPON THE OVERALL EXISTING CONDITIONS SITE PLAN PREPARED DYNOTEC INC IN OCTOBER OF 2024.

THE TOPOGRAPHIC SURVEY IS BASED ON A FIELD SURVEY CONDUCTED BY DYNOTEC, INC. IN OCTOBER OF 2024. HORIZONTAL COORDINATES WERE BASED ON THE STATE PLANE COORDINATES SYSTEM, OHIO SOUTH ZONE, NAD 83 (2011 ADJUSTMENT), US SURVEY FEET.

SURVEY HORIZONTAL CONTROL

PT	DESC	ELEV.	NORTHING	EASTING
3	IPINS	1083.63'	694316.93'	1691696.21'
4	IPINS	1081.54'	694879.46'	1691517.86'
5	IPINS	1077.92'	695372.69'	1691809.22'

SURVEY BENCHMARKS

PT	DESC	ELEV.	NORTHING	EASTING
TBM3	CHISLED SQAURE ON NORTHEAST CORNER OF CONCRETE TBOX PAD LOCATED NORTHWEST OF SALLYPORT	1084.13'	694336.57'	1691668.12'
TBM4	CHISELED "X" ON WEST SIDE OF THE CONC. BASE FOR LIGHT POLE	1080.61'	695064.17'	1691805.01'

UTILITIES

OUPS REFERENCE NUMBERS

B427601153
B427601150

CMAP MADISON COUNTY ENGINEER 10/04/24 12:45 PM
999 NO RESPONSE (LATE) – THE FACILITY OWNER OR OPERATOR OR ITS REPRESENTATIVES HAS NOT POSTED A POSITIVE RESPONSE PRIOR TO THE LEGAL START

MEC MADISON ENERGY COOPERATIVE 10/02/24 01:21 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

MHOP MID OHIO WATER AND SEWER DISTR 10/04/24 06:45 AM
002 MARKED – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER AT THE SITE OF PROPOSED EXCAVATION HAVE BEEN MARKED UP TO THE PRIVATELY OWNED FACILITY.

OBFP AT&T – OHIO 10/02/24 02:50 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

OED OHIO EDISON – (USIC) 10/02/24 03:53 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

CMAP MADISON COUNTY ENGINEER 10/14/24 12:45 PM
999 NO RESPONSE (LATE) – THE FACILITY OWNER OR OPERATOR OR ITS REPRESENTATIVES HAS NOT POSTED A POSITIVE RESPONSE PRIOR TO THE LEGAL START

MEC MADISON ENERGY COOPERATIVE 10/02/24 01:21 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

MHOP MID OHIO WATER AND SEWER DISTR 10/03/24 06:45 AM
002 MARKED – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER AT THE SITE OF PROPOSED EXCAVATION HAVE BEEN MARKED UP TO THE PRIVATELY OWNED FACILITY.

OBFP AT&T – OHIO 10/04/24 02:50 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

OED OHIO EDISON – (USIC) 10/02/24 03:53 PM
001 NO CONFLICT – UNDERGROUND FACILITIES OPERATED BY THIS MEMBER ARE NOT IN CONFLICT BASED ON INFORMATION PROVIDED IN THE EXCAVATION REQUEST.

EXISTING CONDITIONS LEGEND

BENCHMARK
IRON PIN SET (I.P.S.)
SECURITY LIGHT
POWER/TELEPHONE POLE
GUY WIRE ANCHOR
WATER VALVE
FIRE HYDRANT
CATCH BASIN SQUARE
STORM MANHOLE
SANITARY MANHOLE
SIGN
BOARING LOCATION
DRAIN (D)
GAS METER (G)
TELEPHONE POLE

BUILDING FOOTPRINT
ROAD EDGE
ROAD CURB
BERM
FENCE
BUILDING OVERHANG
WATER MAIN (W)
SANITARY MAIN
STORM MAIN
MAJOR CONTOUR
MINOR CONTOUR
CONCERT PAD
ROAD CENTERLINE

DYNOTEC
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www.dynotecinc.com

EXISTING CONDITIONS EXHIBIT
LONDON CORRECTIONAL AUTO GARAGE
1580 OH-56, LONDON, OHIO, 43140

PROJECT NO:	240069
DATE:	1/30/2025
DRAFTED	ZA
CHECKED	CC
APPROVED	CC
SCALE	SCALE: 1" = 40' (0, 40, 80, 160)

GENERAL PROVISIONS:

TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS OTHERWISE NOTED.

DRAWINGS ARE NOT TO BE SCALED.

FOR DIMENSIONS NOT SHOWN, COORDINATE WITH ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS, AND DETERMINE THE EXTENT OF WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL ASSUME THE MOST STRINGENT REQUIREMENTS APPLY IN CASE OF CONFLICT AMONG SPECIFICATIONS, STANDARDS, CODES AND DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT.

ANY DEVIATION, MODIFICATION, OR SUBSTITUTION FROM THE BID SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS. WITHOUT SUCH PRIOR APPROVAL, DEVIATIONS, MODIFICATIONS, OR SUBSTITUTIONS WILL BE REJECTED. COSTS FOR DEMOLITION AND REWORK OF SUCH ITEMS WILL BE BORNE BY THE CONTRACTOR.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED FOR IN-SERVICE LOADS ONLY. THE MEANS, METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY TEMPORARY SYSTEMS (SHORING, BRACING, GUYS, FALSEWORK, FORMWORK, SHEETING ETC.) TO ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED WITHOUT DAMAGE TO ADJACENT EXISTING WORK. SHORING SYSTEMS SHALL BE DESIGNED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW THE STRUCTURAL CONTRACT DOCUMENTS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS BETWEEN THOSE DOCUMENTS AND ANY SAFETY REGULATIONS. SUCH REVIEW AND NOTIFICATION SHALL OCCUR PRIOR TO PRODUCTION OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS, AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

SITE VISITS PERFORMED BY THE ARCHITECT/ENGINEER DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY THE CONTRACTOR.

STRUCTURAL OBSERVATIONS PERFORMED BY THE ARCHITECT/ENGINEER DURING CONSTRUCTION ARE NOT THE CONTINUOUS AND SPECIAL INSPECTION SERVICES AND DO NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING DEPARTMENT INSPECTOR OR THE TESTING AGENCY. ALSO, OBSERVATIONS DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.

ELEVATED CONCRETE SLABS AND ROOF DECK HAVE BEEN DESIGNED ONLY FOR THE DESIGN LOADING CRITERIA AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE WEIGHT OF CONSTRUCTION MATERIALS AND EQUIPMENT ON THE STRUCTURE SHALL BE LIMITED TO THE DESIGN LOADING CRITERIA UNLESS APPROVED BY THE ENGINEER OF RECORD. ANY EQUIPMENT OR MATERIALS THAT EXCEED THE DESIGN LOADING WILL NOT BE PERMITTED WITHOUT AN ANALYSIS OF THE STRUCTURE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT STAMPED CALCULATIONS TO ENGINEER FOR REVIEW. THE RESPONSIBILITY FOR THE ANALYSIS OF ANY ELEVATED SLABS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SHOP DRAWINGS:

REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

REPRODUCTION OF THE STRUCTURAL DRAWINGS FOR USE IN PREPARATION OF SHOP DRAWINGS IS STRICTLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. SHOP DRAWINGS SUBMITTED WITH REPRODUCED STRUCTURAL DRAWINGS AND/OR DETAILS WITHOUT CONSENT WILL BE REJECTED.

SUBMIT SHOP DRAWINGS 15 BUSINESS DAYS (MINIMUM) PRIOR TO DATE THAT RETURNED SHOP DRAWINGS ARE REQUIRED.

SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL, WHICH SHALL CONSTITUTE CERTIFICATION THAT ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, AND MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS HAVE BEEN VERIFIED AND EACH DRAWING HAS BEEN CHECKED FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS DURING SHOP DRAWING PREPARATION.

WHERE A DELEGATED DESIGN IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH ITEM, COMPONENT, AND CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED ENGINEER (IN THE PROJECT'S JURISDICTION). DRAWINGS AND CALCULATIONS SHALL SHOW LOCATIONS AND MAGNITUDES OF LOADS IMPOSED ON THE STRUCTURE. THE ENGINEER OF RECORD RESERVES THE RIGHT TO MODIFY LOAD PATH SUGGESTED BY THE DELEGATED DESIGN ENGINEER.

DELEGATED DESIGN:

CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE FOLLOWING ITEMS INCLUDING DESIGN OF THE CONNECTIONS OF EACH ITEM TO THE SUPPORTING STRUCTURAL FRAMING:

- STRUCTURAL STEEL CONNECTIONS
- METAL STAIRS
- HANDRAILS AND GUARDRAILS
- COLD-FORMED STEEL FRAMING
- FACADE PANELS AND FACADE COMPONENTS
- SHORING
- PRE-ENGINEERED METAL BUILDING (PEMB)
- LADDERS

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH ITEM LISTED ABOVE. REFER TO THE "SHOP DRAWING" SECTION UNDER THE GENERAL NOTES FOR ADDITIONAL INFORMATION.

INFORMATION SHOWN IN THE CONTRACT DOCUMENTS (E.G., DEPTHS, GAGES, SPACING, PLYS, ETC.) ARE CONSIDERED MINIMUMS AND ARE SCHEMATIC IN NATURE. INCREASED GAGE,PLYS AND/OR DECREASED SPACINGS MAY BE REQUIRED AND SHALL BE COMPLETED AT NO CHARGE TO THE OWNER.

EARTHWORK/SUBSURFACE INVESTIGATION:

GENERAL:

THE CONTRACTOR SHALL REFER TO THE THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT AND SPECIFICATIONS FOR ALL REQUIREMENTS RELATED TO EXCAVATION, PREPARATION OF THE SUBGRADE, COMPACTION PROCEDURES, AND FOR ANY OTHER GEOTECHNICAL REQUIREMENTS. WHERE CONFLICTING REQUIREMENTS BETWEEN THE DRAWINGS AND GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT ARE PRESENT, THE MOST STRINGENT REQUIREMENT SHALL BE BID UNLESS OTHERWISE ADDRESSED BY THE ENGINEER OF RECORD IN A FORMAL REQUEST FOR INFORMATION.

THE RECOMMENDATIONS PRESENTED HEREIN ARE IN ACCORDANCE WITH THE SUBSURFACE INVESTIGATION REPORT PREPARED BY:

RESOURCE INTERNATIONAL, INC., PROJECT NO. W-24-101, FEBRUARY 28, 2025

PROOFROLLING:

PRIOR TO EXCAVATION FOR STRUCTURES, PROOFROLL BUILDING AND PAVEMENT AREAS USING A HEAVILY LOADED DUMP TRUCK OR SIMILARLY HEAVILY LOADED VEHICLE. ALL SOFT, LOOSE OR UNSTABLE AREAS ARE TO BE STABILIZED WITH ADDITIONAL COMPACTION OR UNDERCUT AND REPLACED WITH ENGINEERED FILL.

ENGINEERED FILL:

ENGINEERED FILL SHALL BE WELL-GRADED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL, FROZEN MATERIALS, BRICK, LIME, CONCRETE AND OTHER MATERIALS THAT WOULD PREVENT ADEQUATE PERFORMANCE. FILL SHALL CONFORM TO ASTM D2487 SOIL CLASSIFICATION GROUPS SW, GP, GM, SW, SP OR SM.

UNLESS OTHERWISE NOTED, THE PROPOSED ENGINEERED FILL MATERIALS ARE TO BE PLACED IN LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE MEASURED THICKNESS. EACH LIFT IS TO BE COMPACTED A MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D698.

THE EARTHWORK PROGRAM SHALL BE CONDUCTED UNDER THE SUPERVISION OF A SOILS LABORATORY.

THE IN-PLACE DENSITIES ACHIEVED ARE TO BE VERIFIED BY TEST.

BACKFILL:

BACKFILL OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT.

BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.

PRIOR TO BACKFILL OPERATIONS AGAINST FOUNDATION WALLS, THE WALLS SHALL BE PROPERLY SHORED TO RESIST THE LATERAL FORCE OF THE BACKFILL AND ASSOCIATED EQUIPMENT. LATERAL SHORES MAY BE ELIMINATED WHERE THE FLOOR SLAB CONNECTING TO THE WALLS HAS ACHIEVED THEIR DESIGN STRENGTH.

WHERE FINAL GRADES ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL EQUALLY ON BOTH SIDES OF THE WALL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS TO WITHIN 1'-0" AT ANY GIVEN TIME.

DESIGN LOADINGS:

GOVERNING BUILDING CODE: 2024 OHIO BUILDING CODE

GRAVITY LOADS:

FLOOR DEAD LOADS	20 PSF	(SUPERIMPOSED + ACTUAL MAT'L WEIGHTS)
FLOOR LIVE LOADS		
ASSEMBLY		
LOBBIES	100 PSF	
CLASSROOMS	40 PSF	
CORRIDORS		
FIRST FLOOR	100 PSF	
OTHER FLOORS	80 PSF*	*NOT LESS THAN SERVING OCCUPANCY
GARAGE	125 PSF	
MECHANICAL ROOMS	125 PSF	
OFFICE	50 PSF**	**PLUS 15 PSF PARTITION LOAD
STAIRS	100 PSF	
STORAGE		
LIGHT	125 PSF	
ROOF DEAD LOAD	20 PSF	(SUPERIMPOSED + ACTUAL MAT'L WEIGHTS)
ROOF LIVE LOAD	20 PSF	
ROOF SNOW LOADS:		
GROUND SNOW LOAD (Pg)	20 PSF	
EXPOSURE FACTOR (Ce)	1.0	
IMPORTANCE FACTOR (I)	1.1	
THERMAL FACTOR (Ct)	1.0	
FLAT-ROOF SNOW LOAD (Pf)	14 PSF	
MINIMUM ROOF SNOW LOAD (Pm)	20 PSF	

FOUNDATION SYSTEMS:

GENERAL:

THE CONTRACTOR SHALL STUDY THE GEOTECHNICAL INVESTIGATION REPORT (REFER TO THE "EARTHWORK/SUBSURFACE INVESTIGATION" SECTION UNDER THE GENERAL NOTES") AND VISIT THE SITE PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL VERIFY ANY EXISTING FIELD CONDITION THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM.

THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION. UNDERGROUND UTILITY LOCATIONS, IF SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE SUPPORT OF UTILITIES ACROSS EXCAVATIONS.

SHEETING, SHORING, AND DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR.

A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATIONS, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT.

CONTINUOUS WATERSTOPS SHALL BE PROVIDED AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL ELEVATOR PITS AND BASEMENT WALLS.

BOTTOM OF ALL EXTERIOR FOOTINGS/GRADE BEAMS SHALL BEAR A MINIMUM OF 3'-0" BELOW ADJACENT FINAL GRADE FOR FROST PROTECTION.

GROUNDWATER WAS ENCOUNTERED BELOW THE GROUND SURFACE AT THE TIME OF SUBSURFACE EXPLORATION. SOIL MOISTURE AND GROUNDWATER CONDITIONS MAY VARY DEPENDING ON CONDITIONS SUCH AS TEMPERATURE, PRECIPITATION AND SEASON. CONTRACTOR SHALL PROVIDE FOR ANY SITE DRAINAGE AND DEWATERING METHODS REQUIRED. PROVIDE PERMANENT FOUNDATION DRAINS AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.

SPREAD/TRENCH FOOTINGS:

BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECT FOUNDATION BEARING SURFACES, AND VERIFY ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.

ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.

FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF.

STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.

INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.

UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.

CONCRETE:

GENERAL:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-16, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.

ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.

SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INSOFAR AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

ALL CONCRETE - 4000 PSI

ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (± 1%) AIR ENTRAINMENT.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.

NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.

PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.

PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS.

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

	OTHER		TOP*	
BAR SIZE	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE
# 3	15	19	19	24
# 4	19	25	25	33
# 5	24	31	31	41
# 6	29	37	37	49
# 7	42	54	54	71
# 8	48	62	62	81
# 9	54	70	70	91
#10	60	78	78	101
#11	66	85	85	111

* HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR

PROVIDE DOVETAIL ANCHORS AT 2'-0" ON CENTER FOR ALL MASONRY FACED CONCRETE WALLS.

CLEAR MINIMUM COVER OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:

CONCRETE PLACED AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 TO #18 BARS	2"
#5 BAR OR SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
SLABS & WALLS #11 BAR AND SMALLER	3/4"
CONCRETE BEAMS, COLUMNS, & PIERS	1 1/2"

LATERAL LOAD DESIGN DATA:

WIND DESIGN DATA (ASCE 7-16):

BASIC WIND SPEED (ULTIMATE)	107 MPH
RISK CATEGORY	III
EXPOSURE CATEGORY	
NORTH/SOUTH	C
EAST/WEST	C

DESIGN PRESSURES (ULTIMATE)

COMPONENTS AND CLADDING (a = 13'-0")

ROOF ZONE 1		
TRIB. AREA 0-10 SF	+16.0/-39.8	PSF
TRIB. AREA >10-50 SF	+16.0/-33.5	PSF
TRIB. AREA 100 SF	+16.0/-31.3	PSF
ZONE 1'		
TRIB. AREA 0-10 SF	+16.0/-22.9	PSF
TRIB. AREA >10-50 SF	+16.0/-22.9	PSF
TRIB. AREA 100 SF	+16.0/-22.9	PSF
ROOF ZONE 2		
TRIB. AREA 0-10 SF	+16.0/-52.2	PSF
TRIB. AREA >10-50 SF	+16.0/-44.5	PSF
TRIB. AREA 100 SF	+16.0/-40.9	PSF
ROOF ZONE 3		
TRIB. AREA 0-10 SF	+16.0/-71.6	PSF
TRIB. AREA >10-50 SF	+16.0/-55.7	PSF
TRIB. AREA 100 SF	+16.0/-49.3	PSF
WALL ZONE 4		
TRIB. AREA 0-10 SF	+25.0/-27.1	PSF
TRIB. AREA >10-50 SF	+23.5/-24.6	PSF
TRIB. AREA 100 SF	+21.4/-26.0	PSF
WALL ZONE 5		
TRIB. AREA 0-10 SF	+25.0/-33.5	PSF
TRIB. AREA >10-50 SF	+23.5/-28.2	PSF
TRIB. AREA 100 SF	+21.4/-26.0	PSF

STRUCTURAL STEEL:

W SHAPES:	ASTM A992 (Fy = 50 KSI)
M,S,C SHAPES:	ASTM A36 UNO
PLATE, ANGLES:	ASTM A36 UNO
PIPE:	ASTM A53, TYPE E OR S, GRADE B
TUBE:	ASTM A500 GRADE C (Fy = 50 KSI)
ANCHOR RODS:	ASTM F1554 GRADE 36 (GALVANIZED)

DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC 360-16 SPECIFICATIONS.

FIELD CONNECTIONS SHALL BE BOLTED, BEARING TYPE UNLESS NOTED OTHERWISE USING 3/4" HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. ONE SIDED CONNECTIONS ARE NOT PERMITTED UNLESS DETAILED ON DRAWINGS

GENERAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, OPENING DIMENSIONS AND WEIGHTS PRIOR TO STRUCTURAL STEEL FABRICATION. NOTIFY ENGINEER IF DIFFERENT FROM THAT SHOWN ON DRAWINGS.

SLIP CRITICAL BOLTS (FRICTION BOLTS) SHALL BE USED AT THE FOLLOWING LOCATIONS:

1. MOMENT CONNECTIONS.
2. COLUMN SPLICES.
3. CROSS BRACING CONNECTIONS.

ALL CONNECTIONS TO TUBES AND PIPES SHALL USE THRU PLATES UNLESS NOTED OTHERWISE.

WHEN FORCES ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP 1/2 OF THE ALLOWABLE UNIFORM LOAD AS SPECIFIED IN THE BEAM TABLES OF AISC (ASD). A MINIMUM OF 2 BOLTS SHALL BE USED.

ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS SPECIFICATIONS.

PROVIDE L4x4x5/16 FRAMING AT ALL ROOF SUMP PANS AND OTHER OPENINGS TO SUPPORT EDGE OF ROOF DECK.

FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.

PRIME ALL STEEL NOT IN CONTACT WITH CONCRETE. DO NOT PRIME STEEL IN AREAS TO RECEIVE SLIP CRITICAL BOLTS (FRICTION BOLTS).

ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE ADJUSTABLE MASONRY ANCHORS AT 2'-8" ON CENTER.

GALVANIZE ALL STEEL THAT IS EXPOSED TO WEATHER. GALVANIZED STEEL SHALL BE SHOP FABRICATED AND CUT TO LENGTH PRIOR TO GALVANIZING. DO NOT FIELD CUT. DAMAGED GALVANIZING IS TO BE REPAIRED WITH A HIGH ZINC CONTENT PAINT MEETING MILITARY SPECIFICATION MIL-P-21035. GALVANIZE STEEL PER ASTM A123.

THE DESIGN OF ALL STEEL CONNECTIONS, INCLUDING MOMENT CONNECTIONS, SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, AND EMPLOYED BY THE STEEL FABRICATOR. THE REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT COMPLETE DESIGN CALCULATIONS FOR EACH CONNECTION. SUCH CALCULATIONS SHALL SHOW DETAILS OF THE ASSEMBLED JOINT WITH ALL BOLTS AND WELDS REQUIRED. WHERE PREDESIGNED CONNECTIONS ARE TAKEN DIRECTLY FROM TABLES IN THE AISC SPECIFICATION, CALCULATIONS NEED NOT BE SUBMITTED PROVIDED THE JOB DESIGN CONDITIONS PRECISELY MATCH THOSE ASSUMED IN THE AISC TABLES.

COLD-FORMED STEEL FRAMING:

DESIGN OF METAL STUD FRAMING IS BASED ON CSJ TYPE (1 5/8" FLANGE) STUDS WITH CLARK STEEL FRAMING SYSTEMS SECTION PROPERTIES AND ALLOWABLE RESISTING MOMENT CAPACITY. ALTERNATE MANUFACTURER'S FRAMING SIZE SHALL MEET THE MINIMUM SECTION PROPERTIES AND ALLOWABLE RESISTING MOMENT CAPACITY OF THE MEMBERS INDICATED ON THE DESIGN DRAWINGS.

ALL LIGHT GAUGE FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

ALL FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

ALL FRAMING SHALL BE GALVANIZED.

ALL CONNECTIONS SHALL BE SCREWED OR WELDED. POWDER DRIVEN FASTENERS ARE NOT ACCEPTABLE FOR ANY STRUCTURAL APPLICATIONS.

ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

CONTRACTOR SHALL SUBMIT FABRICATION AND ERECTION SHOP DRAWINGS TO THE ENGINEER FOR REVIEW FOR ALL COLD FORMED METAL FRAMING COMPONENTS AND CONNECTIONS. FOR ALL FRAMING COMPONENTS AND CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS INCLUDING TRUSSES, HEADERS, JAMBS, ETC. SUBMIT SHOP DRAWINGS AND CALCULATIONS STAMPED BY AN ENGINEER REGISTERED IN THE STATE THE PROJECT IS LOCATED.

STEEL STAIRS:

ALL STAIR LANDINGS, STAIRS AND STAIR SUPPORTS TO BE DESIGNED BY STAIR FABRICATOR. SUBMIT DESIGN CALCULATIONS AND DRAWINGS STAMPED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED TO THE STRUCTURAL ENGINEER FOR REVIEW. STAIR FABRICATOR SHALL PROVIDE ALL POSTS, BRACKETS, HANGERS, ETC. TO SUPPORT STAIRS. HANGERS AND POSTS SHALL BE LOCATED IN PARTITION WALLS. POSTS OR HANGERS SHALL LOAD THE STRUCTURE CONCENTRICALLY. STAIRS SHALL BE DESIGNED TO SUPPORT A LIVE LOAD OF 100 PSF.

METAL FORM DECK:

METAL FORM DECK SHALL BE GALVANIZED HIGH STRENGTH STEEL. IF DECK IS TO BE FIELD PAINTED, PROVIDE SHOP PRIMED FINISH OVER TOP OF GALVANIZATION.

NO CONDUIT SHALL BE PLACED IN SLABS ON METAL FORM DECK.

DECK SHALL BE ATTACHED TO ALL STEEL SUPPORTS AS FOLLOWS:

9/16"x24 GAUGE FORM DECK ATTACHMENT SHALL BE 5/8" DIA. PUDDLE WELDS AT 30/4 SUPPORT FASTENER LAYOUT. DECK PANELS SHALL BE FASTENED TOGETHER AT SIDE LAP JOINTS WITH A MINIMUM OF (1)#10 SELF TAPPING SCREW BETWEEN SUPPORTS. PROVIDE WELD WASHERS AT EACH WELD LOCATION. (TYP. UNO)

LATERAL LOAD DESIGN DATA (CONTINUED):

SEISMIC DESIGN DATA (ASCE 7-16):

SEISMIC IMPORTANCE FACTOR (I)	1.00
RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE	
SHORT PERIODS (Ss)	0.136
1 SEC. PERIODS (S1)	0.064
SPECTRAL RESPONSE COEFF.	
SHORT PERIODS (SDS)	0.146
1 SEC. PERIODS (SD1)	0.103
SEISMIC DESIGN CATEGORY	B
SITE CLASS	D

BASIC SEISMIC-FORCE-RESISTING SYSTEMS

BASIC FRAMING SYSTEM	STEEL FRAMES
SEISMIC RESISTING SYSTEM	STEEL ORDINARY MOMENT FRAMES
DEFLECTION AMPLIFICATION FACTOR (Cd)	3.0
RESPONSE MOD. FACTOR (R)	3.5
OVERSTRENGTH FACTOR (Ω)	3.0
DESIGN BASE SHEAR	0.04w
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

ADHESIVE DOWELLED ANCHORS:

REINFORCING, BAR DOWELS, REINFORCING BARS, THREADED RODS, BOLTS ETC. WHICH ARE INDICATED TO BE ADHESIVE DOWELLED INTO CONCRETE OR SOLID MASONRY SHALL BE ACCOMPLISHED USING HIT HY-200 V3 SAFESET ADHESIVE BY HILTI FASTENING SYSTEMS OF TULSA, OK. (ICC REPORT NO. ESR 3013), OR EQUAL.

DRILL, BRUSH, AND CLEAN ALL HOLES, AND INSTALL ALL ANCHORS IN COMPLETE ACCORDANCE WITH MANUFACTURERS PUBLISHED RECOMMENDATIONS, AS WELL AS ALL APPLICABLE BUILDING CODES OR ENGINEERING REPORTS.

PROVIDE THE FOLLOWING MINIMUM ANCHOR EMBEDMENT DEPTHS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DETAILS:

A. REINFORCING BARS

BAR SIZE	EMBEDMENT DEPTH
#3	4"
#4	6"
#5	7"
#6	9"
#7	10"
#8	12"
#9	13"
#10	16"
#11	18"

B. BOLTS OR THREADED RODS

DIAMETER	EMBEDMENT DEPTH
3/8"	5"
1/2"	7"
5/8"	8"
3/4"	10"
7/8"	12"
1"	13"

C. HILTI HIS INSERTS

DIAMETER	EMBEDMENT DEPTH
3/8"	4 1/4"
1/2"	5"
5/8"	6 5/8"
3/4"	8 1/4"

WHEN INSTALLING DRILLED-IN-ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.

HEADED STUDS AND DEFORMED BAR ANCHOR:

HEADED STUDS AND DEFORMED BAR ANCHORS SHALL BE ELECTRIC-ARC STUD WELDED PER MANUFACTURERS RECOMMENDATIONS AND THE AWS CODE. FILLET WELDING SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. WELDMENT SHALL BE IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OF EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD WILL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" DIAMETER AND SMALLER, 3/16" FOR 5/8" DIAMETER AND LARGER.

HEADED STUDS SHALL BE TYPE B PER THE AWS CODE WITH A MINIMUM YIELD STRENGTH OF 51 KSI. NELSON GRANULAR FLUX-FILLED (OR APPROVED EQUAL). STUDS SHALL BE MANUFACTURED OF COLD DRAWN BAR STOCK CONFORMING TO ASTM A-108.

DEFORMED BAR ANCHORS SHALL COMPLY WITH ASTM A-706 WITH A MINIMUM YIELD STRENGTH OF 70 KSI.

UNLESS NOTED OTHERWISE, DEFORMED BAR ANCHOR LENGTH SHALL BE AS FOLLOWS:

BAR DIAMETER	EMBEDMENT LENGTH
3/8"	24"
1/2"	24"
5/8"	30"

SPECIAL INSPECTION AND TESTING:

THIS PROJECT REQUIRES SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THESE NOTES AND THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THE PROJECT OWNER ARE INTENDED TO INFORM THE CONTRACTOR OF THE QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES.

THE SPECIAL INSPECTIONS AND TESTING PROGRAM:

THE SPECIAL INSPECTION AND TESTING PROGRAM IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN IBC SECTION 110. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO COMPLY WITH THE OFFICIAL CONTRACT DOCUMENTS. FURTHER, IT IS NOT INTENDED THAT THE CONTRACTOR'S CONTRACTUAL AND STATUTORY OBLIGATIONS ARE ANYWAY RELIEVED OR FOREGONE BY THE PRESENCE OF THE SPECIAL INSPECTOR. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR DOES NOT REPLACE THE DUTIES OF THE BUILDING OFFICIAL NOR THE QUALITY CONTROL RESPONSIBILITIES AND PERSONNEL OF THE CONTRACTOR. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THE PROJECT OWNER IS RESPONSIBLE FOR EMPLOYING SPECIAL INSPECTION SERVICES. THE SPECIAL INSPECTOR/AGENCY SHALL NOT BE IN THE EMPLOY OF THE CONTRACTOR, SUBCONTRACTOR OR MATERIAL SUPPLIER, IBC SEC. 1704.2. IN THE CASE OF AN OWNER/CONTRACTOR, THE SPECIAL INSPECTOR/AGENCY SHALL BE EMPLOYED AS SPECIFIED BY THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR IS OBLIGATED TO BOTH THE OWNER AND THE BUILDING OFFICIAL FOR OBSERVING THAT THE WORK IS EXECUTED IN SUBSTANTIVE ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS AND SPECIFICATIONS, ADDENDA, CHANGE ORDERS, ISSUED SKETCHES AND REVISION DRAWINGS, AND ALL DIRECTIVES ISSUED BY ARCHITECT/ENGINEER.

THE INSPECTION AND TESTING AGENTS SHALL DISCLOSE ANY PAST OR PRESENT BUSINESS RELATIONSHIP OR POTENTIAL CONFLICT OF INTEREST WITH THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS WHOSE WORK IS TO BE INSPECTED OR TESTED. THE SPECIAL INSPECTORS MAY HAVE NO FINANCIAL INTEREST IN PROJECTS FOR WHICH THEY PROVIDE SPECIAL INSPECTION SERVICES.

SPECIAL INSPECTION REPORT REQUIREMENTS:

SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTS. THE SPECIAL INSPECTOR SHALL FURNISH THE INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS, TESTS, AND CORRECTION OF ANY OF THE DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF THE WORK IS APPROVED FOR OCCUPANCY.

CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR IN ADVANCE OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE INSPECTION FOR THE ITEMS LISTED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTICE TO THE SPECIAL INSPECTOR FOR ALL INSPECTIONS.

THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL REVIEW THE SPECIAL INSPECTION PLAN AND COORDINATE THE SCHEDULE OF WORK TO ACCOMMODATE THE REQUIRED INSPECTIONS.

PROVIDE ACCESS TO APPROVED PLANS: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO APPROVED PLANS. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF THE CONTRACT DOCUMENTS AT THE JOB SITE.

CORRECT DISCREPANCIES AND DEVIATIONS: THE CONTRACTOR SHALL, UPON BEING INFORMED BY THE SPECIAL INSPECTOR, IMMEDIATELY CAUSE TO ELIMINATE SUCH DISCREPANCIES AND DEVIATIONS.

WORK COMPLETED WITHOUT INSPECTION: WORK REQUIRING INSPECTION WHICH IS COMPLETED WITHOUT INSPECTION WILL BE REJECTED SOLELY ON THAT BASIS.

RETAIN SPECIAL INSPECTION RECORDS: THE CONTRACTOR IS ALSO RESPONSIBLE FOR RETAINING AT THE JOB SITE ALL SPECIAL INSPECTION RECORDS COMPLETED BY THE SPECIAL INSPECTOR.

COORDINATE AND SUBMIT: THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING TO THE BUILDING OFFICIAL AND THE OWNER A STATEMENT OF CONTRACTOR RESPONSIBILITY, IBC SECTION 1704.4, FOR THEMSELVES AND FOR SUBMITTING A STATEMENT OF CONTRACTOR RESPONSIBILITY FOR EACH STRUCTURAL COMPONENT SUBCONTRACTOR. THE STATEMENTS OF RESPONSIBILITY SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.

A. THE STATEMENT OF CONTRACTOR RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSONS EXERCISING SUCH CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.

B. STRUCTURAL COMPONENT SUBCONTRACTORS INCLUDE BUT ARE NOT LIMITED TO STRUCTURAL STEEL FABRICATORS AND ERECTORS, COMPONENT FABRICATORS SUCH AS STEEL JOISTS, METAL OR WOOD TRUSSES, CONCRETE, AND MASONRY CONTRACTORS.

C. AT THE COMPLETION OF STRUCTURAL COMPONENT FABRICATION, THE FABRICATORS SHALL SUBMIT A CERTIFICATE OF COMPLIANCE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS OF:

RETESTING AND REINSPECTION OF MATERIALS, WORK, AND/OR PRODUCTS THAT DO NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS/SUBMITTAL DATA.

REVIEW OF PROPOSED REPAIR AND/OR REPLACEMENT PROCEDURES BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE INSPECTORS AND TESTING AGENCIES.

REPAIR OR REPLACEMENT OF WORK THAT DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR THE TRAVEL COSTS OF THE SPECIAL INSPECTOR OR AGENTS WHEN SHOP INSPECTION IS REQUIRED OF A NON APPROVED STRUCTURAL COMPONENT FABRICATOR.

INSPECTION OF FABRICATION:

WHERE FABRICATION OF STRUCTURAL, LOAD BEARING, OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES ARE PERFORMED ON THE PREMISES OF THE FABRICATOR, THE SHOP FABRICATION REQUIRES SPECIAL INSPECTION DURING THE FABRICATION OF ITEMS FOR THIS PROJECT.

EXEMPTION:

FABRICATORS APPROVED BY THE BUILDING OFFICIAL ARE EXEMPT FROM THE ON PREMISE INSPECTION. THE APPROVAL BY THE BUILDING OFFICIAL OF ANY FABRICATOR SHOULD BE PROPERLY DOCUMENTED PRIOR TO THE COMMENCEMENT OF FABRICATION. EXEMPTION WILL BE PROVIDED TO FABRICATORS WHO PROVIDE PROOF OF CERTIFICATION BY A NATIONALLY RECOGNIZED GOVERNING ASSOCIATION WHICH PERFORMS PERIODIC INSPECTIONS AND MAINTAINS QUALITY ASSURANCE CRITERIA. EXAMPLES ARE: AISC CERTIFICATION FOR A STEEL FABRICATOR, SJI CERTIFICATION FOR A STEEL JOIST MANUFACTURER, WTC AND TPI CERTIFICATION FOR A PRE-ENGINEERED WOOD TRUSS MANUFACTURER.

AT THE COMPLETION OF FABRICATION, THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

CONCRETE TESTING NOTES:

CONCRETE TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND THE SCHEDULE OF SPECIAL INSPECTIONS. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 75 CUBIC YARDS OF CONCRETE USED FOR FOOTINGS, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS. TEST REPORTS INDICATING NON-COMPLIANCE SHALL BE PROVIDED TO THE OWNER, ARCHITECT AND CONTRACTOR. A COPY OF THE TEST REPORTS SHALL BE AVAILABLE AT THE JOBSITE.

STEEL INSPECTION AND TESTING NOTES:

STRUCTURAL STEEL TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REFERENCED STANDARDS AND THE SCHEDULE OF SPECIAL INSPECTIONS.

FIELD BOLTED CONNECTIONS WILL BE TESTED AND INSPECTED ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."

FIELD WELDS SHALL BE INSPECTED AND TESTED ACCORDING TO AWS D1.1. IN ADDITION TO VISUAL INSPECTION, WELDED MOMENT CONNECTIONS WILL BE TESTED BY ULTRASONIC, ASTM E164, OR OTHER AWS APPROVED METHOD.

MASONRY INSPECTION AND TESTING NOTES:

CONCRETE MASONRY TESTING AND INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF TMS 402 / TMS 602 AND THE SCHEDULE OF SPECIAL INSPECTIONS. INSPECTION SHALL INCLUDE GENERAL INSPECTION OF WORK IN PROGRESS TO CONFIRM THAT MATERIALS, CONSTRUCTION, AND WORKMANSHIP ARE IN COMPLIANCE WITH PLANS, SPECIFICATIONS AND GOOD CONSTRUCTION PRACTICES. ADDITIONALLY, MORTAR SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C780 ANNEX A6. EACH TEST SHALL CONSIST OF THREE SPECIMENS.

FREQUENCY OF TESTING: AT THE BEGINNING OF MASONRY CONSTRUCTION AND FOR EVERY 5000 SQUARE FEET OF MASONRY INSTALLED THEREAFTER.

COLD WEATHER = LESS THAN 40 DEGREES FAHRENHEIT
HOT WEATHER = GREATER THAN 90 DEGREES FAHRENHEIT

INSPECTOR TO BE CERTIFIED BY THE INTERNATIONAL CODE COUNCIL.

OTHER REQUIRED INSPECTIONS:

THE REQUIREMENTS OF SPECIAL INSPECTIONS AND TESTING IN ACCORDANCE OF THE INTERNATIONAL BUILDING CODE ARE MINIMUM REQUIREMENTS AND DO NOT LIMIT THE REQUIREMENTS FOR THE CONTRACTOR TO PROVIDE OTHER QUALITY CONTROL INSPECTIONS AND TESTING REQUIRED BY THE OWNER, CONTRACT DOCUMENTS, OR OTHER GOVERNING AUTHORITIES HAVING JURISDICTION.

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SCHEDULE OF SPECIAL INSPECTIONS

1704.2.5 INSPECTION OF FABRICATORS

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	IN-PLANT REVIEW (3) DURING FABRICATION	Y	SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE FABRICATOR IS REGISTERED AND APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1.

1705.2 STEEL CONSTRUCTION (AISC 360: CHAPTER N)

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
1. FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, CHAPTER N, SECTION N3, PARAGRAPH 2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	Y	EACH SUBMITTAL
2. MATERIAL VERIFICATION OF STRUCTURAL STEEL HIGH-STRENGTH BOLTS, NUTS, WASHERS AND WELD FILLER MATERIALS.	SHOP (3) AND FIELD INSPECTION	Y	PERIODIC
3. EMBEDMENTS, VERIFY DIAMETER, GRADE, TYPE, LENGTH AND EMBEDMENT (SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	Y	PERIODIC
4. VERIFY MEMBERS LOCATIONS, BRACES, STIFFENERS AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	Y	PERIODIC
5. STRUCTURAL STEEL WELDING	———	——	———
a. INSPECTION TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE (4)
c. INSPECTION TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED (4)
d. NONDESTRUCTIVE (NDT) TESTING OF WELDED JOINTS (AISC 360: N5.5):	———	——	———
1) USE OF QUALIFIED NONDESTRUCTIVE TESTING PERSONNEL.	PERFORMED	Y	———
2) COMPLETE PENETRATION GROOVE WELDS ≥16" OR GREATER IN RISK CATEGORY II	SHOP (3) OR FIELD ULTRASONIC TESTING - 20% OF WELDS MINIMUM	Y	PERFORM
3) WELDED JOINTS SUBJECT TO FATIGUE.	DT AND UT SHALL BE PERFORMED ON 100% OF WELDED JOINTS IDENTIFIED ON CONTRACT DRAWINGS AS BEING SUBJECT TO FATIGUE.	Y	PERFORM
4) WELDED TAB REMOVAL SITES.	AT THE END OF WELDS WHERE WELD TABS HAVE BEEN REMOVED, MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE SAME BEAM TO COLUMN JOINTS RECEIVING UT.	Y	PERFORM
5) FABRICATORS NDT REPORTS WHEN FABRICATORS PERFORMS NDT	VERIFY REPORTS	Y	EACH SUBMITTAL (5)
6. STRUCTURAL STEEL BOLTING:	SHOP (3) AND FIELD INSPECTION	——	———
a. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)	———	——	OBSERVE OR PERFORM AS NOTED (4)
b. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)	———	——	OBSERVE (4)
1) PRE-TENSIONED AND SLIP-CRITICAL JOINTS	———	——	———
a) TURN-OF-NUT METHOD (MATCHMARKING)	———	——	———
b) DIRECT TENSION INDICATOR	———	Y	PERIODIC
c) TWIST-OFF TYPE TENSION CONTROL BOLT	———	Y	PERIODIC
2) SNUG-TIGHT JOINTS	———	Y	PERIODIC
c. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)	SHOP (3) AND FIELD INSPECTION AND TESTING	Y	PERFORM (4)

1705.2.1 STEEL CONSTRUCTION - OTHER INSPECTIONS

(AISC 341: TABLE J8.1 AND J10.1)

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
1. ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL.		Y	PERFORM
2. FABRICATED STEEL OR ERECTED STEEL FRAME.		Y	OBSERVE
3. REDUCED BEAM SECTIONS (RBS) WHEREIF OCCURS.		Y	DOCUMENT
4. PROTECTED ZONES.		Y	DOCUMENT
5. H-PILES WHEREIF OCCURS.		Y	DOCUMENT

1705.4 MASONRY CONSTRUCTION

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	R	R	R		ART. 1.5
2. PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'aac, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	NR	R	R		ART. 1.4 B
3. DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R		ART. 1.5 AND 1.6.3
4. DURING CONSTRUCTION, VERIFICATION OF f'm AND f'aac, FOR EVERY 5,000 SQUARE FEET.	NR	NR	R		ART. 1.4 B
5. DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R		ART. 1.4 B
MINIMUM SPECIAL INSPECTIONS	**FREQUENCY**			**REFERENCE FOR CRITERIA**	
	LEVEL 1	**LEVEL 2**	**LEVEL 3**	**TMS 402**	**TMS 602**
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR.	NR	P	P		ART. 2.1, 2.6 A, AND 2.6C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P		ART. 2.4 B AND 2.4 H
C. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P		ART. 3.4 AND 3.6 A
D. PRESTRESSING TECHNIQUE	NR	P	P		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C*(b)(c)	P		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART. 1.6 D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE	NR	P	C		ART. 3.2 D AND 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 AND SEC. 8.1, 6.3.1, 6.3.6 AND 6.3.7	ART. 2.4 AND 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	NR	P	C		ART. 3.2 E AND 3.4
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	NR	P	P		ART. 2.6 B AND 2.4 G.1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS.	NR	P	P		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.	NR	P	P		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS.	NR	P	P		ART. 3.3 F
D. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OR MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	NR	P	C	SEC. 1.2.1 (e), 6.2.1, AND 6.3.1	
E. WELDING OF REINFORCEMENT.	NR	C	C	SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURES BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)	NR	P	P		ART. 1.8 C AND 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NR	C	C		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	NR	C	C		ART. 3.5 AND 3.6 C
I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C*(b)(c)	C		ART. 3.3 B.9 AND 3.3 F.1.b
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS:	NR	P	C		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, AND 1.4 B.4

FOR SI: INCH = 25.4mm.
(a.) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTON, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK AS DEFINED IN THE TABLE. NR=NOT REQUIRED, P=PERIODIC, C=CONTINUOUS.
(b.) REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY.
(c.) REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

1705.2.3 OPEN-WEB STEEL JOIST AND JOIST GIRDERS

TYPE	APPLICABLE TO PROJECT		REFERENCED STANDARD
	Y/N	EXTENT	
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
a. END CONNECTIONS - WELDED OR BOLTED.	Y	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
b. BRIDGING - HORIZONTAL OR DIAGONAL.	-	———	———
1) STANDARD BRIDGING.	Y	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2) BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	Y	PERIODIC	———

1705.3 CONCRETE CONSTRUCTION

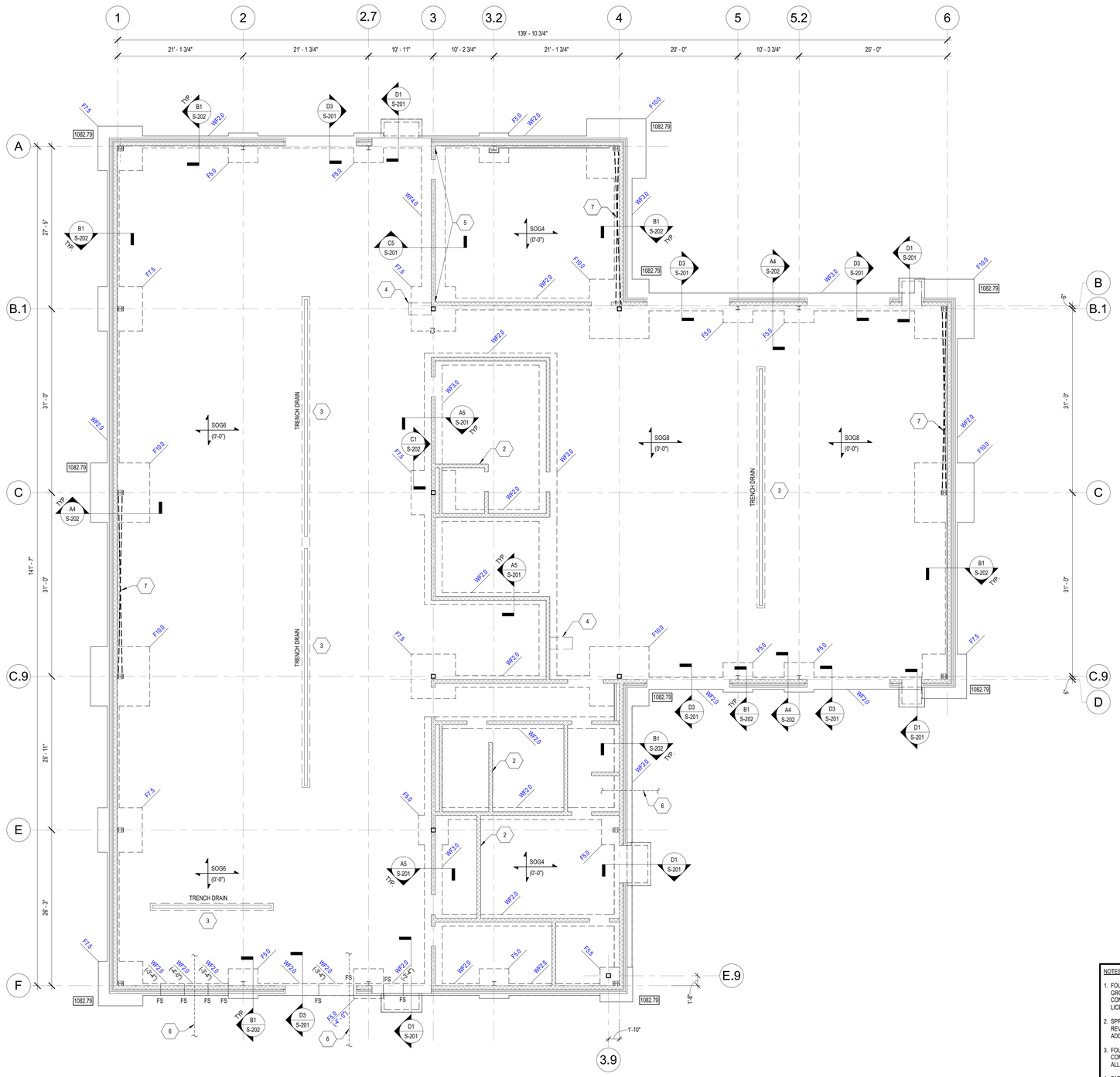
MATERIAL/ ACTIVITY	APPLICABLE TO PROJECT		REFERENCED STANDARD	IBC REFERENCE
	Y/N	EXTENT		
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT.	Y	PERIODIC	ACI 318 CH 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAX. S:16" c. INSPECT ALL OTHER WELDS	 Y Y	 PERIODIC CONTINUOUS	 AWS D1.4 ACI 318: 26.6.4	 -
3. INSPECT ANCHORS CAST IN CONCRETE.	Y	PERIODIC	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	Y Y	CONTINUOUS PERIODIC	ACI 318: 17.8.2.4 ACI 318: 17.8.2	 -
5. VERIFY USE OF REQUIRED DESIGN MIX.	Y	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2,
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Y	CONTINUOUS	ACI 318: 26.5	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Y	PERIODIC	ACI 318: 26.5.3-26.5.5	-
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES b. GROUTING OF BONDED PRESTRESSING TENDONS.	N N	CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	N	PERIODIC	ACI 318: CH 26.9	-
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR: a. INSTALLATION OF THE EMBEDDED PARTS. b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS c. COMPLETION OF CONNECTIONS IN THE FIELD.	 N N N	 CONTINUOUS CONTINUOUS CONTINUOUS	 ACI 550.5	
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	N	PERIODIC	ACI 318: 26.13.3	
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	N	PERIODIC	ACI 318: 26.11.2	-
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Y	PERIODIC	ACI 318: 26.11.1.2[b]	-
15. CONRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	Y	PERIODIC	-	-

FOR SI: INCH = 25.4 mm.
(a.) WHERE APPLICABLE, SEE ALSO SECTION 1705.12. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
(b.) SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

1705.5 SOILS

MATERIAL/ACTIVITY	SERVICE	APPLICABLE TO PROJECT	
		Y/N	EXTENT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Y	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Y	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	FIELD INSPECTION	Y	PERIODIC
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	FIELD INSPECTION	Y	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	Y	PERIODIC

NOTES:
1. THE INSPECTION AND TESTING AGENT OR AGENTS, SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.
2. SUBMIT A LIST OF THE SPECIAL INSPECTORS ON A SEPARATE DOCUMENT TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL.
3. SPECIAL INSPECTIONS AS REQU



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

GENERAL SHEET NOTES

- SEE SHEET S-001 FOR STRUCTURAL GENERAL NOTES.
- SEE SHEET S-002 FOR SPECIAL INSPECTIONS.
- BASE REFERENCE ELEVATION IS FROM FINISH FLOOR ELEVATION 1082.79 = (0'-0"). ALL ELEVATIONS ARE REFERENCED FROM BASE ELEVATION AND ARE SHOWN AS (±x'-x").
- FOUNDATION ELEVATIONS SHOWN ON PLAN ARE TO TOP OF FOUNDATION AND ARE REFERENCED FROM BASE ELEVATION (0'-0").
- TOP OF EXTERIOR FOUNDATIONS ARE (-1'-4") UNO
- TOP OF INTERIOR FOUNDATIONS ARE (-1'-4") UNO
- PROVIDE SAWCUT CONTRACTION OR CONSTRUCTION JOINTS IN SLAB SPACED AT A MAXIMUM OF 11'-0" O.C. IN BOTH DIRECTIONS WITH A MAXIMUM LENGTH TO WIDTH RATIO OF 2 UNO. MATCH LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS WHERE SHOWN. PROVIDE DIAMOND ISOLATION SLAB AT COLUMNS. SEE D4/S-201.
- SPREAD FOOTINGS SHALL BE CENTERED BELOW COLUMNS, UNO.
- WALL FOOTING SHALL BE CENTERED BELOW WALLS, UNO.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND FINISH OF SLAB ON GRADE AND ANY FLOOR DEPRESSIONS.
- COORDINATE FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- COORDINATE REQUIRED FOUNDATION DRAINAGE WITH ARCHITECTURAL, MECHANICAL AND CIVIL DRAWINGS. PROVIDE A MINIMUM 4" DIAMETER PERFORATED DRAIN PIPE AT ALL EXTERIOR WALLS.
- PROVIDE (2)-#4x3'-0" LONG SLAB REINFORCEMENT AT ALL RE-ENTRANT CORNERS.
- MASONRY REINFORCEMENT:
  PROVIDE THE FOLLOWING VERTICAL MASONRY REINFORCEMENT FULL HEIGHT OF WALLS, UNO. ALL REINFORCEMENT SHALL BE CENTERED IN CMU UNO.

  8" CMU INTERIOR WALLS: #5 @ 48" O.C. UNO
  8" CMU EXTERIOR WALLS: #6 @ 48" O.C. UNO

LEGEND

- "WFx" DENOTES WALL FOOTING MARK. SEE FOUNDATION SCHEDULE ON THIS SHEET.
- "Fx" DENOTES SPREAD FOOTING MARK. SEE FOUNDATION SCHEDULE ON THIS SHEET.
- "F.S." DENOTES FOOTING STEP LOCATION. SEE TYPICAL DETAIL ON SHEET S-201.

SOG4 (0'-0")	4" NORMAL WEIGHT CONCRETE SLAB ON GRADE WITH 6x6-W2.9xW2.9 WWF (CENTERED) ON VAPOR RETARDER ON COMPACTED GRANULAR DRAINAGE FILL MATERIAL.
SOG6 (0'-0")	6" NORMAL WEIGHT CONCRETE SLAB ON GRADE WITH #3 @ 14" O.C. E.W. (CENTERED) ON VAPOR RETARDER ON COMPACTED GRANULAR DRAINAGE FILL MATERIAL.
SOG8 (0'-0")	8" NORMAL WEIGHT CONCRETE SLAB ON GRADE WITH (2) LAYERS OF 4x4-W2.9xW2.9 WWF (1/2T & 1/2B) ON VAPOR RETARDER ON COMPACTED GRANULAR DRAINAGE FILL MATERIAL.
xxx.xx	APPROXIMATE PROPOSED FINISH GRADE ELEVATION, SEE CIVIL DRAWINGS.

SHEET KEYNOTES

1. UNDERGROUND UTILITY LINE. COORDINATE WITH CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING. PROVIDE SLEEVE AS REQUIRED. NOT ALL SHOWN ON PLAN. SEE DETAILS ON SHEET S-201.
2. THICKENED SLAB BELOW ALL MASONRY PARTITIONS, SEE DETAIL C4/S-201.
3. SET TOP OF TRENCH DRAIN AT 0". SLOPE CONCRETE TO TRENCH DRAIN, MIN. 1/8" / FT, MAX. 1/4" / FT. SEE PLUMBING AND STRUCTURAL DRAWINGS.
4. THICKENED SLAB (1'-0" WIDE x 1'-0" THICK) AT STAIR LANDING.
5. PROVIDE (2) CURTAINS OF #4V @ 2'-0" O.C. WITH DOWELS INTO FOOTING TO MATCH.
6. UNDERGROUND UTILITY LINE. COORDINATE WITH CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING. PROVIDE SLEEVE AS REQUIRED. NOT ALL SHOWN ON PLAN. SEE DETAILS ON S-201.
7. X-BRACING FOR LATERAL LOADING BY PEMB SUPPLIER.

CONTINUOUS FOUNDATION SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING
WF2.0	2' - 0"	2' - 0"	(3)-#5 CONT. TOP & BOTTOM
WF3.0	3' - 0"	2' - 0"	(3)-#5 CONT. TOP & BOTTOM
WF4.0	4' - 0"	2' - 0"	#5 @ 8" O.C. TRANSVERSE TOP & BOT. (4) #5 LONG TOP & BOT.

SPREAD FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING
F4.0	4' - 0"	4' - 0"	2'-0"	(5)-#5 E.W. TOP & BOT.
F5.0	5' - 0"	5' - 0"	2'-0"	(6)-#5 E.W. TOP & BOT.
F5.5	5' - 6"	5' - 6"	2'-0"	(6)-#5 E.W. TOP & BOT.
F7.5	7' - 6"	7' - 6"	2'-0"	(7)-#5 E.W. TOP & BOT.
F10.0	10' - 0"	10' - 0"	2'-0"	(10)-#6 E.W. TOP & BOT.

NOTES:

1. FOUNDATION DESIGN SHOWN IS BASED ON ANTICIPATED METAL BUILDING REACTIONS AS DEVELOPED BY GPD GROUP IN CONSIDERATION OF THE PLANNED BUILDING TYPE, GABLE, BAY SPACING, AND SPANS. THE GENERAL CONTRACTOR SHALL FURNISH FOUNDATION REACTIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF OHIO FOR REVIEW PRIOR TO ORDERING MATERIALS FOR FOUNDATIONS.
2. SPREAD FOUNDATION SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. REVISIONS MAY BE REQUIRED PENDING REVIEW OF THE FINAL SEALED FOUNDATION REACTIONS. CHANGE ORDER SHALL BE SUBMITTED FOR ANY ADDITIONAL COSTS ASSOCIATED WITH THE REDESIGN OF THE FOUNDATIONS.
3. FOUNDATION DESIGN IS BASED ON UNIFORM BEARING OF FOUNDATIONS EXCLUSIVELY ON PROPERLY COMPACTED NATIVE SOILS OR ENGINEERED FILL PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. ALL SHALLOW BEDROCK AT FOUNDATION LOCATIONS SHALL BE OVEREXCAVATED AND BACKFILLED.
4. FAT CLAY AND FAT CLAY WITH SAND WERE ENCOUNTERED DURING THE GEOTECHNICAL INVESTIGATION. WHERE HIGH PLASTICITY SOILS ARE ENCOUNTERED, FOUNDATIONS SHALL BE OVER-EXCAVATED TO A MINIMUM OF 3'-0" BELOW THE FOUNDATION BEARING ELEVATION, FOLLOWED BY BACKFILLING WITH PROPERLY PLACED AND COMPACTED GRANULAR ENGINEERED FILL OR LOW STRENGTH MORTAR (LSM). FOR BIDDING PURPOSES, USE THE FOLLOWING QUANTITIES OF MATERIAL TO BE REMOVED AND PLACED:

   - 2,500 CUBIC YARDS OF MATERIAL TO BE REMOVED
   - 2,000 CUBIC YARDS OF ENGINEERED FILL TO BE PLACED

GPD GROUP
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330.572.2100 Fax 330.572.2101
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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

FOUNDATION PLAN

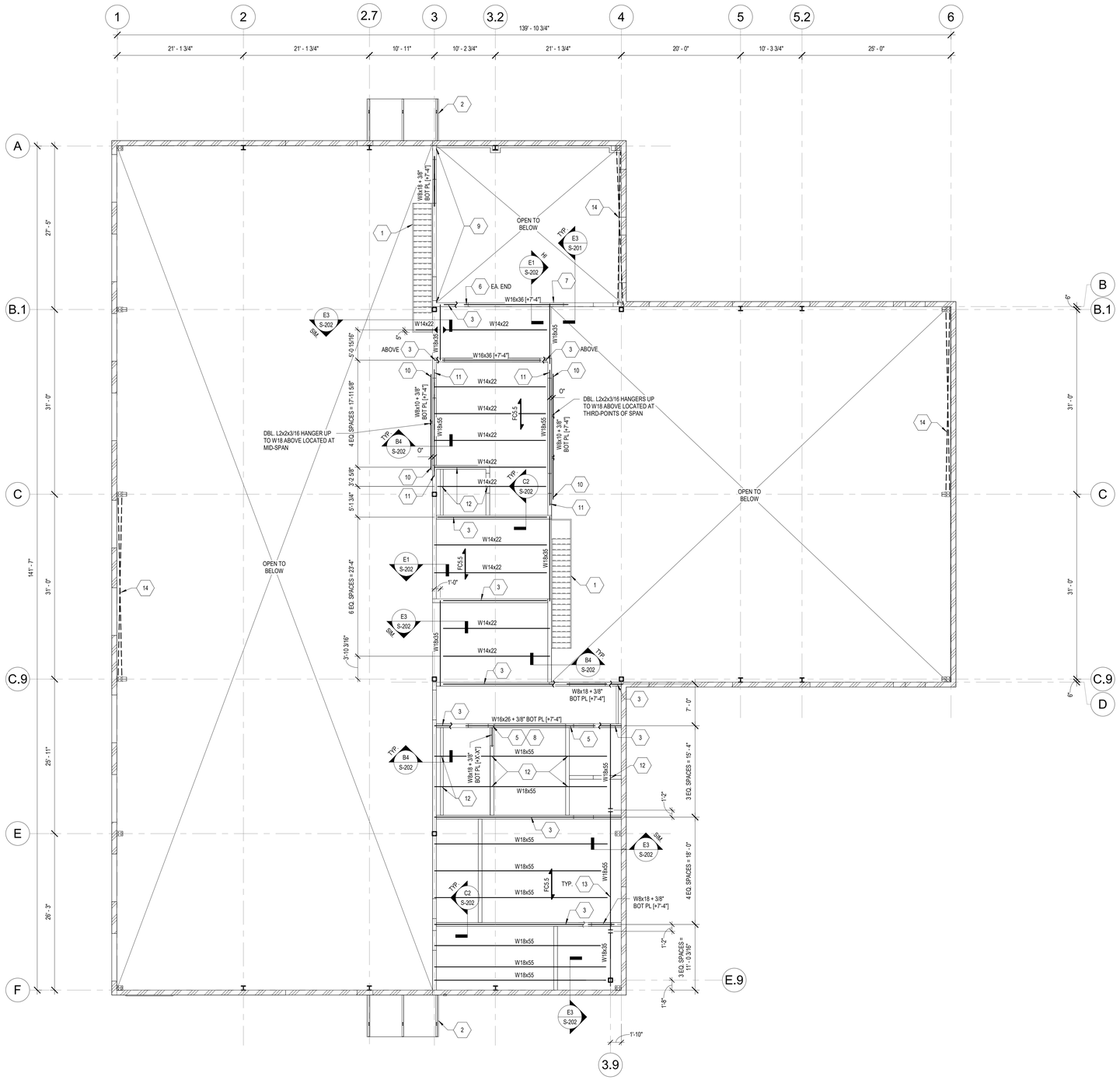
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PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	CE

JOB NO.
2023352.01

S-101

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

GENERAL SHEET NOTES

- SEE SHEET S-001 FOR STRUCTURAL GENERAL NOTES.
- BASE REFERENCE ELEVATION IS FROM FINISH FLOOR ELEVATION 1082.75 = (0'-0"). ALL ELEVATIONS ARE REFERENCED FROM BASE ELEVATION AND ARE SHOWN AS (±x'-x").
- TYPICAL TOP OF STEEL ELEVATION = (+11'-6 1/2") UNO.
- SEE LOOSE LINTEL SCHEDULE ON SHEET S-501 FOR LINTELS NOT SHOWN.
- FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
- MASONRY REINFORCEMENT:
  PROVIDE THE FOLLOWING VERTICAL MASONRY REINFORCEMENT FULL HEIGHT OF WALLS, UNO. ALL REINFORCEMENT SHALL BE CENTERED IN CMU UNO.

  8", 10" AND 12" CMU INTERIOR WALLS: #6 @ 48" O.C. UNO
  8" AND 10" CMU EXTERIOR WALLS: #6 @ 48" O.C. UNO
  12" CMU EXTERIOR WALLS: #6 @ 24" O.C. UNO
- COORDINATE ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. SEE SHEET FOR TYPICAL OPENING DETAILS.
- COORDINATE ALL EQUIPMENT SIZES, LOCATIONS AND WEIGHTS WITH THE MECHANICAL CONTRACTOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR DEVIATIONS FROM WHAT IS SHOWN.
- PROVIDE (2) #4 x 3'-0" LONG SLAB REINFORCEMENT AT ALL RE-ENTRANT CORNERS.

LEGEND

- (±x'-x") DENOTES TOP OF STEEL ELEVATION ABOVE FINISH FLOOR ELEVATION OF (0'-0").
- [±x'-x"] DENOTES BOTTOM OF STEEL ELEVATION ABOVE FINISH FLOOR ELEVATION OF (0'-0").
- <±x"> DENOTES TOP OF STEEL ELEVATION ABOVE OR BELOW ADJACENT ELEVATION.
- "MP" DENOTES MASONRY PIER. SEE FOUNDATION PLAN FOR PIER MARKS.
- "Lxx" DENOTES LINTEL. SEE LINTEL SCHEDULE ON SHEET S-202.
- FC5.5 — 1 1/2"x22 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK (TYPE B). 4" NORMAL WEIGHT CONCRETE SLAB ON 1.5VL20 COMPOSITE METAL DECK (5 1/2" TOTAL THICKNESS) REINFORCED WITH 4x4-W2.9xW2.9 WWF. WWF SHALL BE LOCATED 3/4" FROM TOP OF SLAB.
- DENOTES FULLY-RESTRAINED MOMENT CONNECTION.
- DENOTES BEAM SPLICE.

SHEET KEYNOTES

1. STAIR SUPPLIER TO DESIGN STRINGERS TO MATCH STAIR PROFILE PER ARCHITECTURAL DRAWINGS.
2. CANOPY BY PEMB. SEE ARCHITECTURAL FOR ADDITIONAL INFO.
3. CONT. PL. SEE B2/S-202. T/PL = 11' - 6 1/2".
4. PROVIDE LOOSE LINTEL. SEE LOOSE LINTEL SCHEDULE.
5. CONTINUE LINTEL ACROSS MASONRY JAMB BELOW. PROVIDE BEARING PLATE PER SCHEDULE AND GROUNT MASONRY JAMB SOLID. PROVIDE (2) #6V IN JAMB.
6. BEARING PL 3/8" x 7 1/2" x 1'-2" LG WITH (4)-1/2"Ø x 6" LG. HD'D STUDS. GROUT MASONRY SOLID BELOW FULL HEIGHT. SEE TYP. DETAILS FOR ADDITIONAL REBAR REQ'MENTS AT JAMBS.
7. STOP CONT. PL AT MEZZ. FLOOR EXTENTS.
8. FRAME W8 LINTEL INTO W16 LINTEL.
9. PROVIDE (2) CURTAINS OF #4V @ 2'-0" O.C. WITH DOWELS INTO FOOTING TO MATCH.
10. BEAR W8 ONTO MASONRY.
11. EXTEND W18 2'-0" PAST M.O.
12. PROVIDE 1/2" GAP BETWEEN WALL AND BEAM FLANGE. BEAM SHALL NOT BEAR ON MASONRY. PROVIDE BACKER ROD AND SEALANT AT JOINT.
13. PROVIDE FULL-DEPTH, FULL-CAPACITY, DOUBLE ANGLE SHEAR CONNECTION - TYPICAL.
14. X-BRACING FOR LATERAL LOADING BY PEMB SUPPLIER.

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

MEZZANINE PLAN

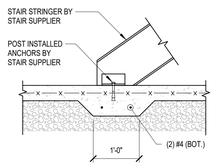
ISSUED FOR:	
PERMIT	08/25/2025
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CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	CE

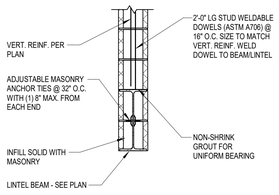
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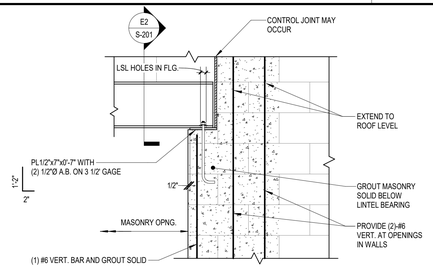
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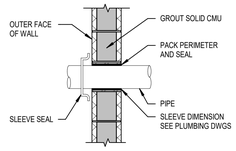
E1 TYP. SLAB AT STAIR STRINGER
3/4" = 1'-0"



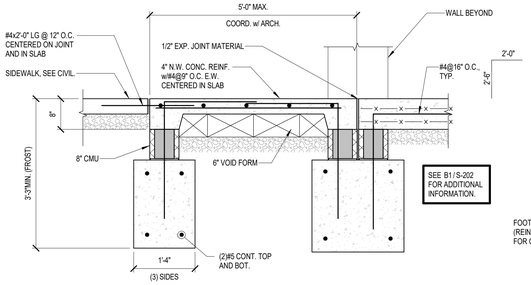
E2 SECTION
3/4" = 1'-0"



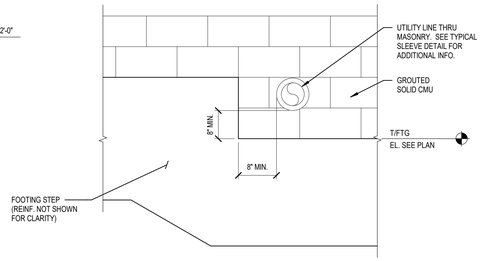
E3 TYP. LINTEL BEARING DETAIL
3/4" = 1'-0"



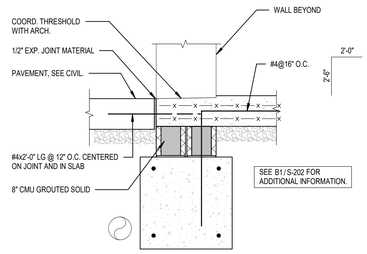
E4 TYP. SLEEVE DETAIL
3/4" = 1'-0"



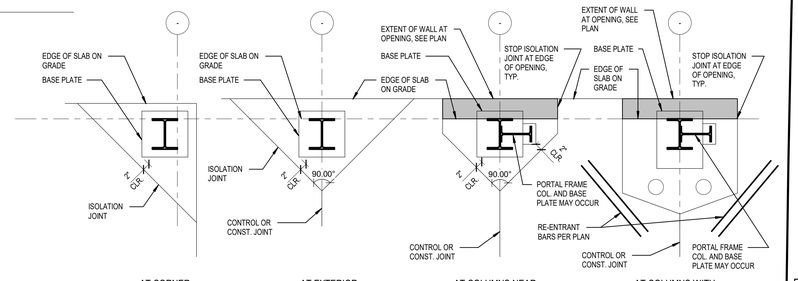
D1 TYP. FROST SLAB DETAIL
3/4" = 1'-0"



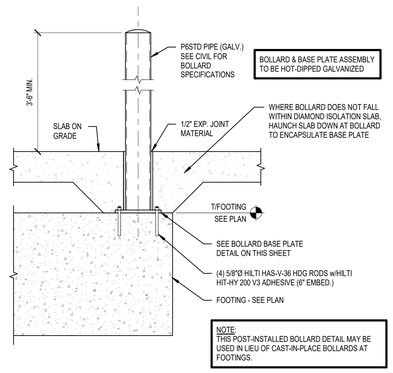
D2 TYP. UTILITY LINE ABOVE FOUNDATION DETAIL
3/4" = 1'-0"



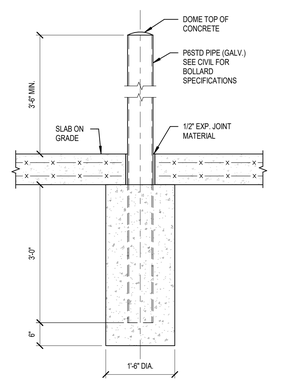
D3 SECTION
3/4" = 1'-0"



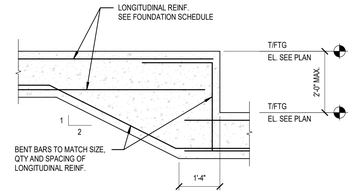
D4 TYP. SLAB ISOLATION JOINT DETAILS
3/4" = 1'-0"



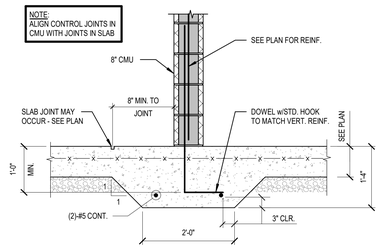
C1 POST-INSTALLED BOLLARD ON FOOTING DETAIL
3/4" = 1'-0"



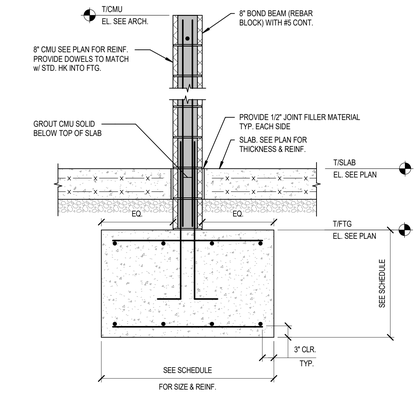
C2 TYP. INTERIOR BOLLARD DETAIL
3/4" = 1'-0"



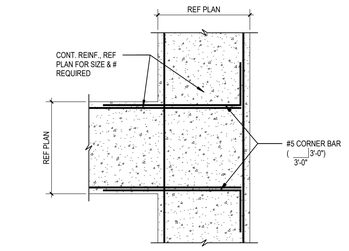
C3 TYP. FOOTING STEP DETAIL
1/2" = 1'-0"



C4 TYP. THICKENED SLAB DETAIL
3/4" = 1'-0"

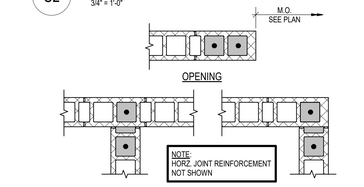


C5 SECTION
3/4" = 1'-0"



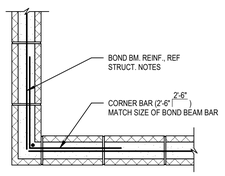
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS.
2. DO NOT LOCATE JOINT WITHIN REINFORCED ELEMENTS SUCH AS COLUMNS, LINTELS, PIERS, PILASTERS OR OPENING JAMBS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
3. MAX. SPACING OF JOINTS: PANEL LENGTH/HEIGHT = 1.5 MAX., 20'-0" MAX.

B1 TYP. MASONRY CONTROL JOINT DETAIL
3/4" = 1'-0"

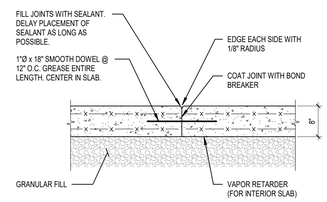


NOTES:
1. PROVIDE (2) - VERTICAL BARS AT ALL CORNERS.
2. ALL INTERSECTING MASONRY CORNERS SHALL BE TIED BY MASONRY BOND WHERE THE TWO WALLS SHARE A COMMON FOOTING. WHERE A WALL BEARS ON A THICKENED SLAB, PROVIDE A CORRUGATED TIE WITH THE INTERSECTING WALL.
3. GROUT MASONRY SOLID AT VERTICAL REINFORCING.

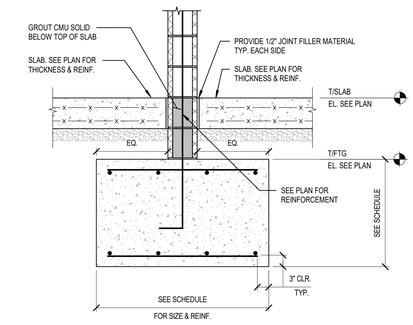
B2 TYP. MASONRY REINFORCEMENT DETAILS
3/4" = 1'-0"



B3 TYPICAL AT 8" KNOCK-OUT BOND BEAM CORNER
3/4" = 1'-0"

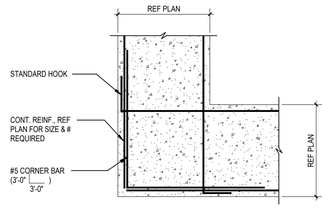


A4 TYP. SLAB JOINT DETAIL
3/4" = 1'-0"

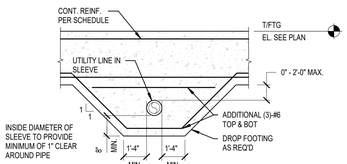


A5 SECTION
3/4" = 1'-0"

A1 TYP. CONCRETE FOOTING INTERSECTION
3/4" = 1'-0"



A2 TYP. AT CONCRETE FOOTING CORNER
3/4" = 1'-0"



UTILITY LINE BELOW FOUNDATION

A3 TYP. UTILITY LIINE BELOW FOUNDATION DETAIL
1/2" = 1'-0"

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REV.	DATE	DESCRIPTION

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LONDON, OH 43140

SECTIONS AND DETAILS

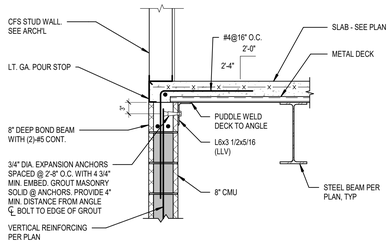
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PROJECT MANAGER	DESIGNER
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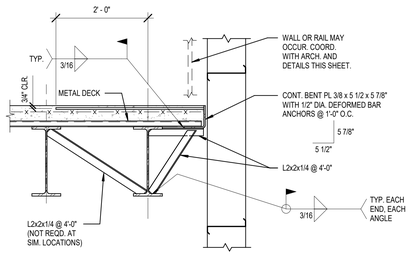
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E1 SECTION
3/4" = 1'-0"



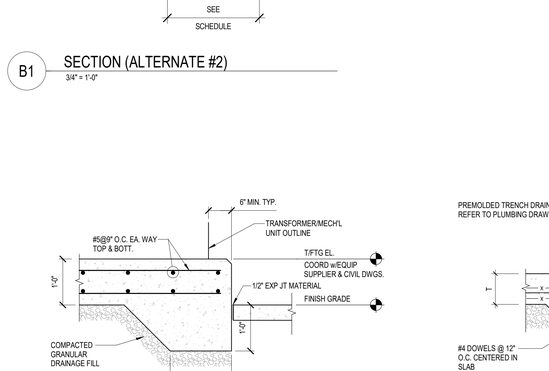
E3 SECTION
3/4" = 1'-0"

LOOSE LINTEL SCHEDULE

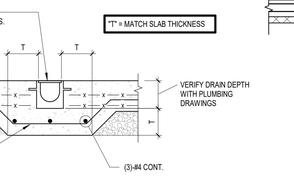
CLEAR SPAN	SIZE FOR 8" WALLS*	CLEAR SPAN	SIZE FOR 6" WALLS
0' TO 4'-0"	L3 1/2x3 1/2x3/8	0' TO 5'-0"	WT4x9
>4'-0" TO 7'-0"	L6x3 1/2x3/8 LLV	>5'-0" TO 8'-0"	WT7x11

NOTES:
1. PROVIDE MINIMUM 3/8" THICKNESS FOR EXTERIOR ANGLES.
2. PROVIDE A MINIMUM BEARING LENGTH OF 8".
3. GALVANIZE ALL LINTELS.
4. USE ASTM A36 WITH 36,000 PSI MIN. YIELD STRENGTH.
5. ALL ANGLE AND WT LINTELS SHALL HAVE 8" OF SOLID MASONRY OR MASONRY GROUTED SOLID BELOW BEARING END UNLESS NOTED OTHERWISE.

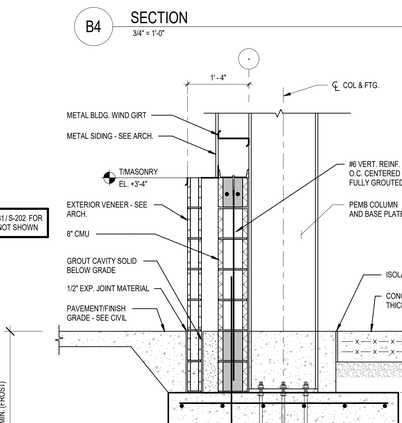
*- PROVIDE ONE ANGLE FOR EACH 4" WIDTH OF WALL THICKNESS.



C1 SECTION
3/4" = 1'-0"

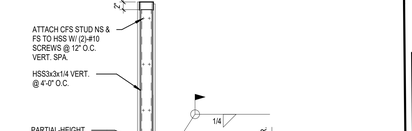


C2 SECTION
3/4" = 1'-0"



NOTES:
1. REINFORCED CONCRETE, 4000 PSI COMPRESSIVE STRENGTH w/6% ±1% AIR ENTRAINMENT.
2. RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
3. COORDINATE ANCHOR ROD LAYOUT AND EMBEDMENT REQUIREMENTS WITH POLE SUPPLIER.
4. CONCRETE SHALL BE CAST DIRECTLY AGAINST UNDISTURBED SOIL AT BASE AND SIDES OF CAISSON. CASING IS NOT PERMITTED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. SONOTUBED SHALL NOT EXTEND BELOW GRADE.

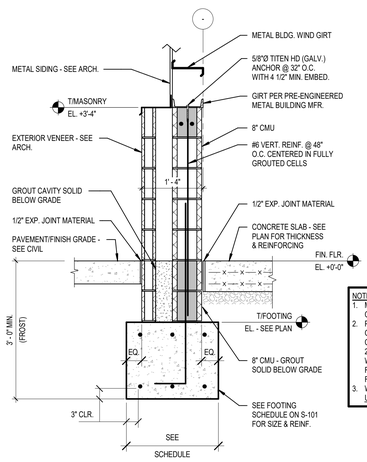
C4 SITE LIGHTING FIXTURE BASE DETAIL
3/4" = 1'-0"



AT RE-ENTRANT CORNERS

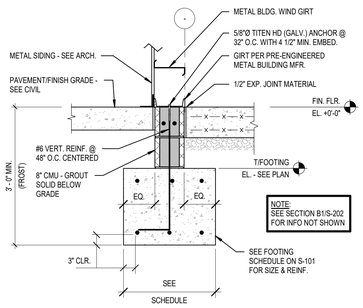
AT EXTERIOR OPENINGS

C5 TYP. FLOOR SLAB REINFORCING AT CORNERS
3/4" = 1'-0"



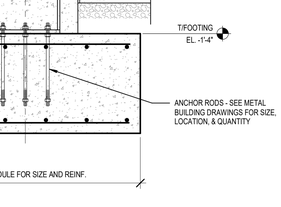
NOTES:
1. METAL BUILDING MANUFACTURER SHALL NOT USE CMU WALLS DESIGNED FOR LATERAL RESISTANCE.
2. PRE-ENGINEERED BUILDING MANUFACTURERS GIRT SHALL BE DESIGNED TO RESIST WIND COMPONENTS & CLADDING PRESSURES OF MIN. 29.4 PSF (ULT.) & 38.3 PSF (ULT.) FOR BUILDING WALL INTERIOR ZONE & END ZONE AREAS, RESPECTIVELY, OF TRIBUTARY WIND LOADING FROM CMU.
3. WIND PRESSURES STATED ABOVE ARE UNFACTORED.

B1 SECTION (ALTERNATE #2)
3/4" = 1'-0"



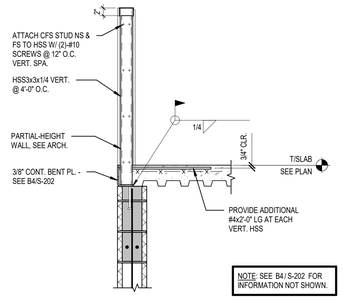
B2 SECTION
3/4" = 1'-0"

AT BEAM



BETWEEN BEAMS

B4 SECTION
3/4" = 1'-0"

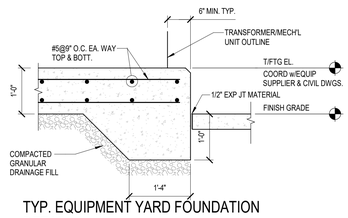


NOTE: SEE B4 / S-202 FOR INFORMATION NOT SHOWN.

B5 SECTION
3/4" = 1'-0"

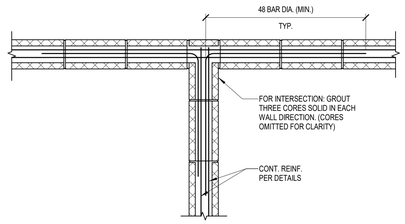
SEE B1/S-202 FOR INFO NOT SHOWN

B4 SECTION
3/4" = 1'-0"



A1 TYP. EQUIPMENT YARD FOUNDATION DETAIL
3/4" = 1'-0"

A2 TYP. TRENCH DRAIN DETAIL
3/4" = 1'-0"



A3 TYP. MASONRY BOND BEAM AT INTERSECTION
3/4" = 1'-0"

A4 SECTION
3/4" = 1'-0"

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LONDON, OH 43140

SECTIONS AND DETAILS

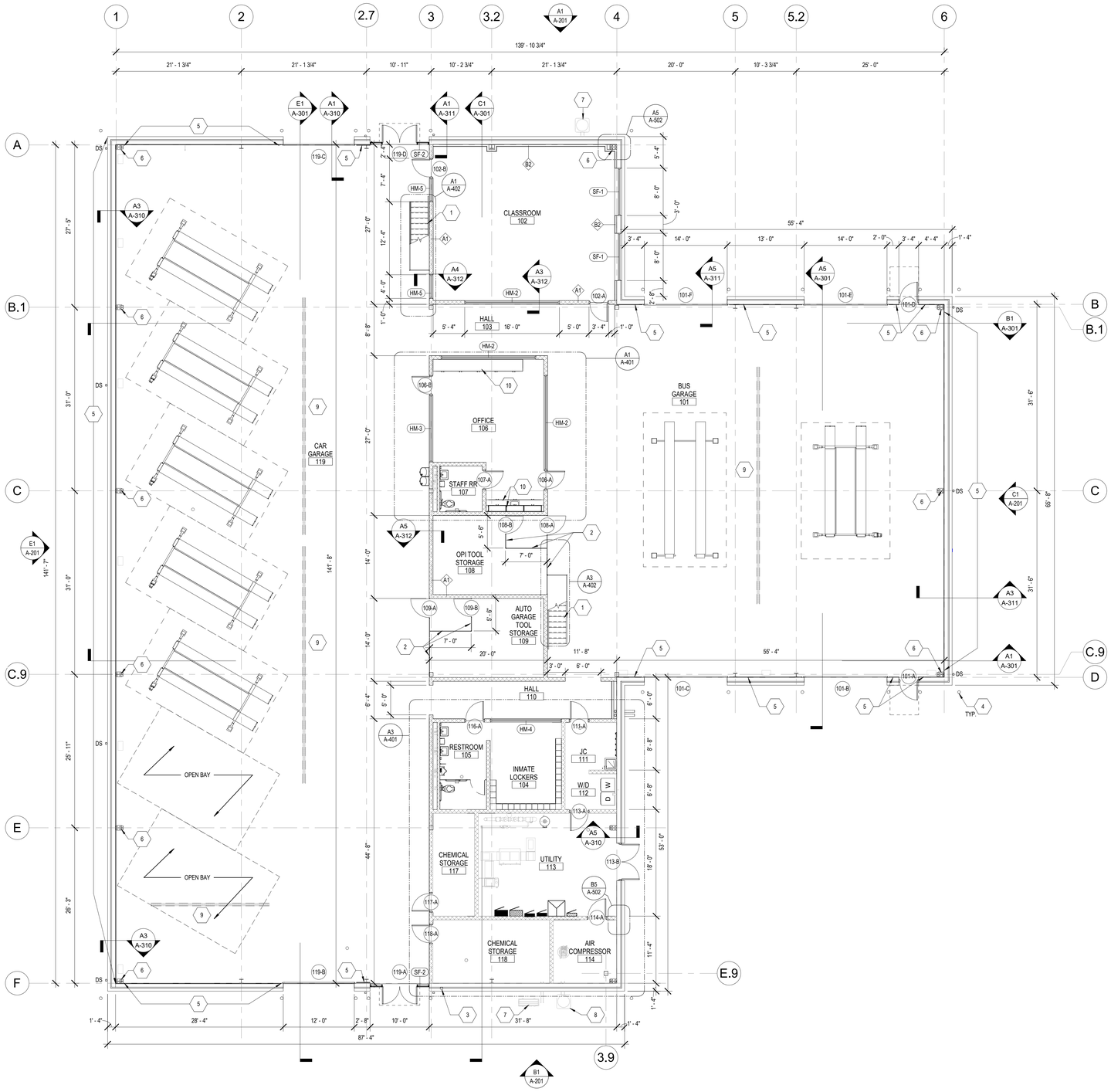
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RECORD	--/--/----

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RD	CE

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S-202

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A1 FLOOR PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
C. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS-CHECK THE MEP DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE ORDERING / INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR IMMEDIATE CLARIFICATION.
D. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE TENANT AND LANDLORD/ BUILDING OWNER, AND THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
E. GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
F. WHERE THERE MAY BE A CONFLICT IN THE SPECIFICATIONS AND/OR DRAWINGS, THEN THE MORE EXPENSIVE LABOR, MATERIALS AND EQUIPMENT SHALL BE ASSUMED TO BE REQUIRED AND SHALL BE PROVIDED BY THE GENERAL CONTRACTOR TO THE SATISFACTION OF THE TENANT.
G. WHEN WORK, NOT SPECIFICALLY CALLED OUT, IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.
H. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES. DRAWINGS SHOWN THIS SHEET INCLUDE ALTERNATE #2 FOR MASONRY BASE FOR REFERENCE. BASE BID TO EXCLUDE MASONRY BASE AND SHALL EXTEND PEMB EXTERIOR WALL PANEL TO GROUND LEVEL. SEE A-501.

SHEET NOTES (#)

1. CONCRETE PAN METAL STAIR AND RAIL SYSTEM
2. WIRE MESH PARTITION - FLOOR TO UNDERSIDE OF DECK. SEE SPECIFACTION SECTION 10 22 13.
3. KNOX BOX - SURFACE MOUNTED.
4. STEEL BOLLARD WITH COVER, TYPICAL. SEE BOLLARD LOCATION LAYOUT PLAN A-101 FOR LAYOUT DIMENSIONS AND LOCATIONS. SEE CIVIL FOR BOLLARD DETAILS AND STRUCTURAL FOR FOUNDATION DETAILS.
5. PEMB INTERIOR METAL LINER PANEL TO 8'-0" +/- AFF (OR NEXT GIRT).
6. PORTAL FRAME BY PEMB ENGINEER.
7. AIR CONDENSING UNITS - SEE MECHANICAL DRAWINGS.
8. AIR CONDITIONING UNIT - SEE MECHANICAL DRAWINGS.
9. SET TOP OF TRENCH DRAIN AT 0". SLOPE CONCRETE TO TRENCH DRAIN MIN. 1/8" / FT; MAX. 1/4" / FT. SEE PLUMBING AND STRUCTURAL DRAWINGS.
10. (ALTERNATE #5) CASEWORK.

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LONDON, OH 43140

FLOOR PLAN

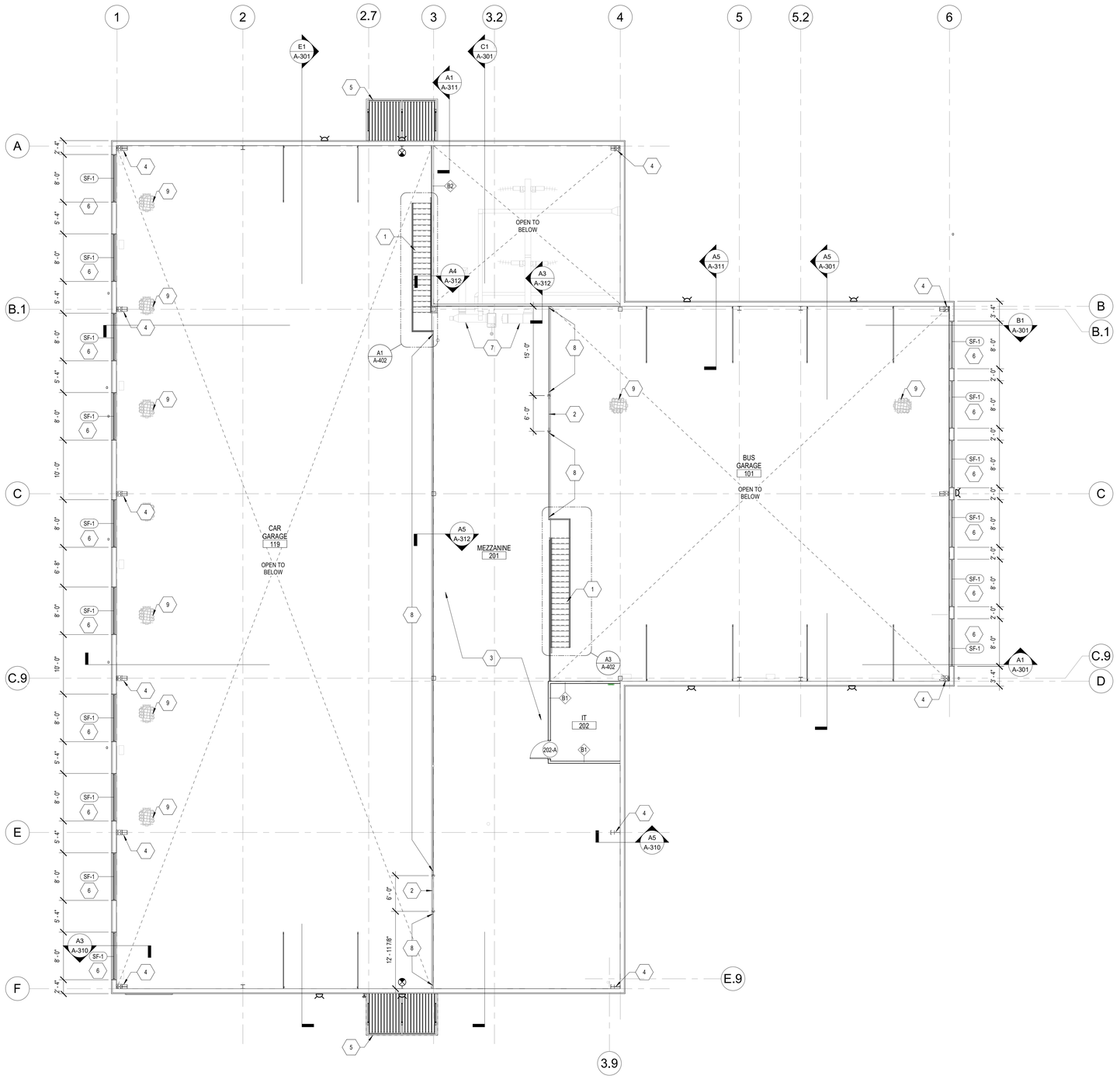
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PROJECT MANAGER	DESIGNER
RD	KC

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A-101

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A1 MEZZANINE FLOOR
1/8" = 1'-0"

N

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
C. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS-CHECK THE MEP DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE ORDERING / INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR IMMEDIATE CLARIFICATION.
D. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE TENANT AND LANDLORD/ BUILDING OWNER, AND THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
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G. WHEN WORK, NOT SPECIFICALLY CALLED OUT, IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.
H. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES. DRAWINGS SHOWN THIS SHEET INCLUDE ALTERNATE #2 FOR MASONRY BASE FOR REFERENCE. BASE BID TO EXCLUDE MASONRY BASE AND SHALL EXTEND PEMB EXTERIOR WALL PANEL TO GROUND LEVEL. SEE A-501.

SHEET NOTES (#)

1. CONCRETE PAN METAL STAIR AND RAIL SYSTEM BY STAIR MANUFACTURER.
2. DELEGATED DEISGN REMOVABLE SAFETY GUARDRAIL SYSTEM.
3. CONCRETE SLAB ON METAL DECK - SEE STRUCTURAL DRAWINGS.
4. PORTAL FRAME BY PEMB ENGINEER.
5. (ALTERNATE #1) CANOPY.
6. (ALTERNATE #4) CLERESTORY WINDOWS.
7. FURNACE - SEE MECHANICAL DRAWINGS.
8. DELEGATED DESIGN FLOOR MOUNTED PERMANENT SAFETY RAIL SYSTEM.
9. HOSE REEL - SEE MECHANICAL DRAWINGS.

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MEZZANINE PLAN

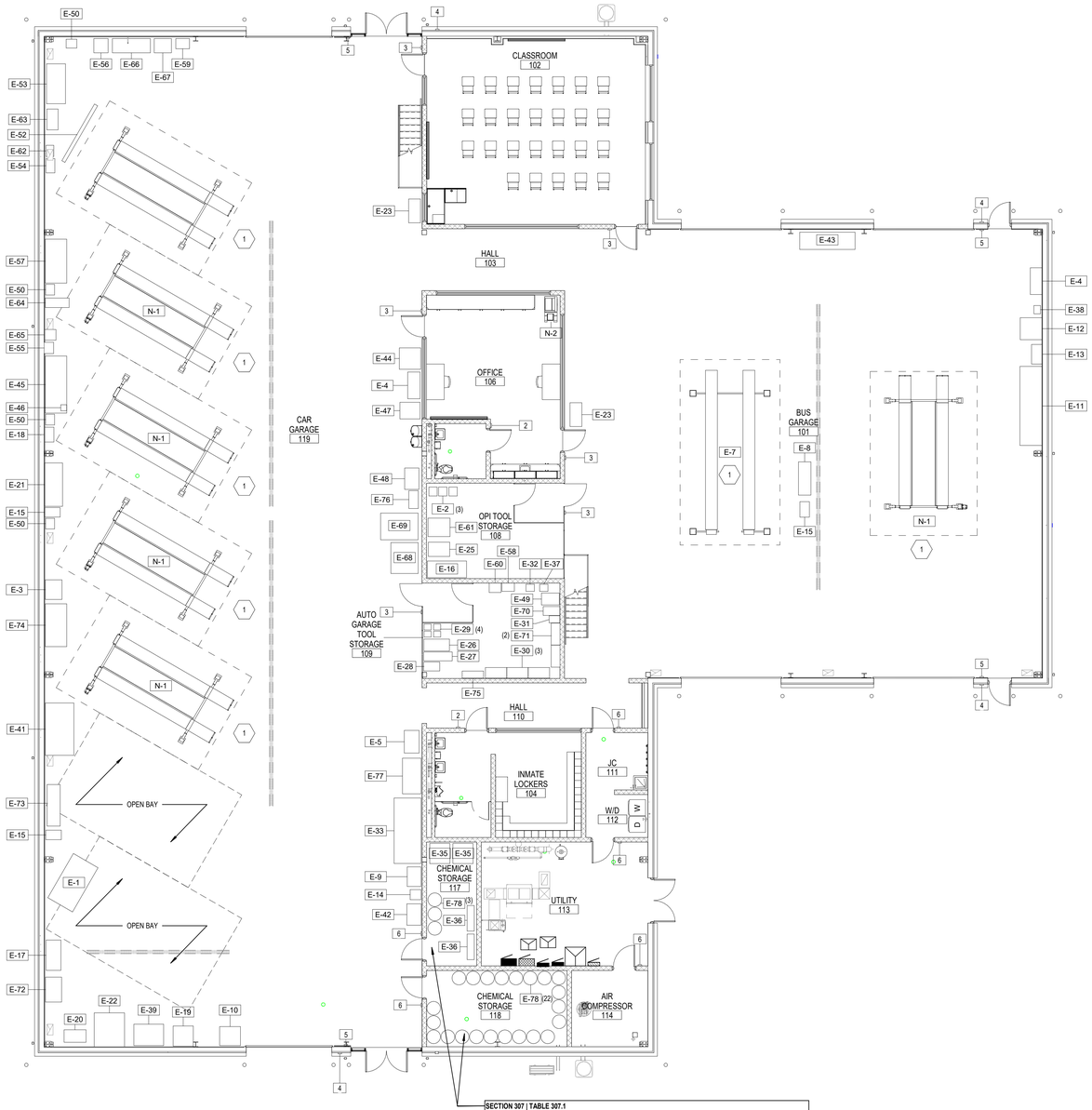
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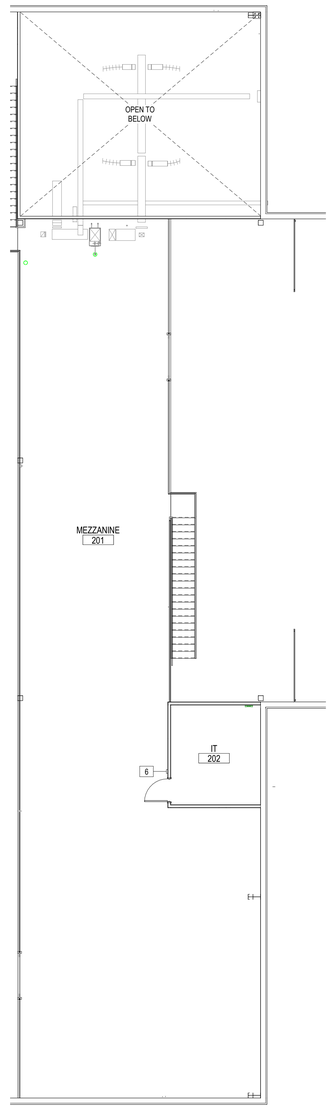
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RD	KC

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A-102

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SECTION 307 | TABLE 307.1

MATERIALS IN THE FLUIDS ROOM ARE CLASSIFIED AS IIIB COMBUSTIBULE LIQUIDS. QUANITITIES SHALL NOT BE LIMITED PER NOTE(F) IF IN BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

FLUIDS CONTAINERS

1SYD #107 FM DEGREASER 16OZ.	BREAK ANTIFREEZE AND DRYER 32 OZ.
SEAFOAM MOTOR TREATMENT 16OZ.	OREILLY 20-DEG WINDSHEILD WASHER FLUID 55 GAL.
PERFECT MATCH SILVER PAINT 8 OZ.	PERFECT MATCH CLEAR COAT 8OZ.
DUPLI-COLOR BLACK GLASS PAINT 12 OZ.	STARTING FLUID 12 OZ.
GUNK ENGINE CLEANER 17 OZ.	AYD GLOSS PAINT 12 OZ.
MASS AIR FLOW CLEANER 17 OZ.	WHITE LITHIUM GREASE 10 OZ.
BLACKJACK CEMENT 8 OZ.	TRIM ADHESIVE 18 OZ.
P.B. BLASTER 18 OZ.	AYD 4 IN 1 SPRAY 11 OZ.

A1 EQUIPMENT PLAN
1/8" = 1'-0"

A4 MEZZANINE EQUIPMENT PLAN
1/8" = 1'-0"

EXISTING EQUIPMENT SCHEDULE

MARK	ITEM DESCRIPTION	COUNT	ROOM NO.	EXISTING / NEW	FURNISHED BY	INSTALL BY	MANUFACTURER	MODEL
E-1	ALIGNMENT MACHINE	1	119	EXISTING	OPI		John Bean	V3300
E-2	BATTERY CHARGER	3	108	EXISTING	OPI			
E-3	BEARING PRESS	1	119	EXISTING	OPI			
E-4	BLACK DRUM FAN	2	<varies>	EXISTING	OPI			
E-5	BRAKE LATHE	1	119	EXISTING	OPI		Pro-Cut	B17
E-7	4-POST CAR LIFT	1	101	EXISTING	OPI	G.C.	Challenger Lifts	4015XAO
E-8	DIESEL BAY	1	101	EXISTING	OPI			
E-9	DRILL PRESS	1	119	EXISTING	OPI		Jet	JPD-20MF
E-10	FILTER CRUSHER	1	119	EXISTING	OPI		OTC	Pro-Crush
E-11	FORKLIFT	1	101	EXISTING	OPI			
E-12	FORKLIFT CAGE	1	101	EXISTING	OPI			
E-13	FORKLIFT CHARGER	1	101	EXISTING	OPI			
E-14	GRINDER	1	119	EXISTING	OPI			
E-15	OIL DRAIN	3	<varies>	EXISTING	OPI			
E-16	PALLET JACK	1	108	EXISTING	OPI			
E-17	PARTS WASHER	1	119	EXISTING	OPI			
E-18	STRUT SPRING COMPRESSOR	1	119	EXISTING	OPI			
E-19	TIRE MACHINE	1	119	EXISTING	OPI			
E-20	TIRE SUPPLY CABINET	1	119	EXISTING	OPI			
E-21	WALL TABLE W/ VISE	1	119	EXISTING	OPI			
E-22	WHEEL BALANCER	1	119	EXISTING	OPI		Coats	1025
E-23	WHITE DRUM FAN	2	<varies>	EXISTING	OPI			
E-25	RED TOOL STORAGE CART	1	108	EXISTING	LoCI			
E-26	JACK LIFT	1	109	EXISTING	LoCI			
E-27	JACK LIFT	1	109	EXISTING	LoCI			
E-28	JACK LIFT	1	109	EXISTING	LoCI			
E-29	JACKS	4	109	EXISTING	LoCI			
E-30	SHELVING UNIT	3	109	EXISTING	LoCI			
E-31	LOCKER UNIT	1	109	EXISTING	LoCI			
E-32	BATTERY CHARGER	1	109	EXISTING	LoCI			
E-33	BRAKE SERVICE	1	119	EXISTING	LoCI			
E-35	FLAMMABLE CABINET	2	117	EXISTING	LoCI			
E-36	FLAMMABLE CABINET	2	117	EXISTING	LoCI			
E-37	BATTERY CHARGER	1	109	EXISTING	LoCI			
E-38	FAN	1	101	EXISTING	LoCI			
E-39	WORKBENCH	1	119	EXISTING	LoCI			
E-41	WORKBENCH	1	119	EXISTING	LoCI			
E-42	SNAP-ON TOOL CABINET	1	119	EXISTING	LoCI			
E-43	1-TON HYDROLIC CRANE	1	101	EXISTING	LoCI			
E-44	BATTERY CHARGER	1	119	EXISTING	LoCI			
E-45	WORKBENCH	1	119	EXISTING	LoCI			
E-46	BENCH VISE	1	119	EXISTING	LoCI			
E-47	DOLLY W/ TANKS	1	119	EXISTING	LoCI			
E-48	SNAP-ON TOOL CABINET	1	119	EXISTING	LoCI			
E-49	AC MACHINE	1	109	EXISTING	LoCI			
E-50	MECHANIC CHAIR	4	119	EXISTING	LoCI			
E-52	ALIGNMENT MACHINE	1	119	EXISTING	LoCI			
E-53	ALIGNMENT MACHINE SYSTEM	1	119	EXISTING	LoCI			
E-54	STRUT SPRING COMPRESSOR	1	119	EXISTING	LoCI			
E-55	STRUT SPRING COMPRESSOR	1	119	EXISTING	LoCI			
E-56	FAN	1	119	EXISTING	LoCI			
E-57	WORKBENCH	1	119	EXISTING	LoCI			
E-58	TOOL STORAGE	1	109	EXISTING	LoCI			
E-59	GRINDER	1	119	EXISTING	LoCI			
E-60	TOOL STORAGE	1	109	EXISTING	LoCI			
E-61	GREY CART	1	108	EXISTING	LoCI			
E-62	AIR COMPRESSOR	1	119	EXISTING	LoCI			
E-63	COMPRESSOR	1	119	EXISTING	LoCI			
E-64	WELDER	1	119	EXISTING	LoCI			
E-65	WELDER	1	119	EXISTING	LoCI			
E-66	DRILL PRESS	1	119	EXISTING	LoCI			
E-67	25-TON PRESS	1	119	EXISTING	LoCI			
E-68	WHEEL BALANCER	1	119	EXISTING	LoCI			
E-69	RIM CLAMP	1	119	EXISTING	LoCI			
E-70	FILE CABINET	1	109	EXISTING	LoCI			
E-71	SHELVING	2	109	EXISTING	LoCI			
E-72	PARTS WASHER	1	119	EXISTING	LoCI			
E-73	COMPRESSOR	1	119	EXISTING	LoCI			
E-74	WORKBENCH	1	119	EXISTING	LoCI			
E-75	PARTS STORAGE	1	109	EXISTING	LoCI			
E-76	RED STORAGE	1	119	EXISTING	LoCI			
E-77	BRAKE SERVICE STORAGE	1	119	EXISTING	LoCI			
E-78	STORAGE DRUMS	25	<varies>	EXISTING	LoCI			

NEW EQUIPMENT SCHEDULE

MARK	ITEM DESCRIPTION	COUNT	ROOM NO.	EXISTING / NEW	FURNISHED BY	INSTALL BY	MANUFACTURER	MODEL
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-1	4-POST CAR LIFT	1	119	NEW	OWNER	G.C.	Rotary Lift	SM14-S
N-2	COPIER	1	106	NEW	OWNER	OWNER	-	-
N-1	4-POST CAR LIFT	1	101		OWNER	G.C.	Rotary Lift	SM14-S

GENERAL NOTES

A. ANY EQUIPMENT/FURNITURE NOT INCLUDED IN THE MATRIX IS NOT IN CONTRACT (NIC) AND PROVIDED BY THE OWNER AND SHOWN FOR REFERENCE ONLY FOR UTILITY COORDINATION.

SHEET NOTES (#)

1. LOCATE LIFT PER MANUFACTURER REQUIREMENTS.

SIGNAGE LEGEND (SEE SHEET I-501 FOR SIGNAGE TYPES AND DETAILS)

#	SIGN TYPE/DESCRIPTION
1	MEN'S LOCKER
2	UNISEX RESTROOM
3	ROOM NUMBER
4	SMOKING/WEAPONS
5	EXIT
6	NOT AN EXIT
7	NAME ONLY

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

FFE PLAN

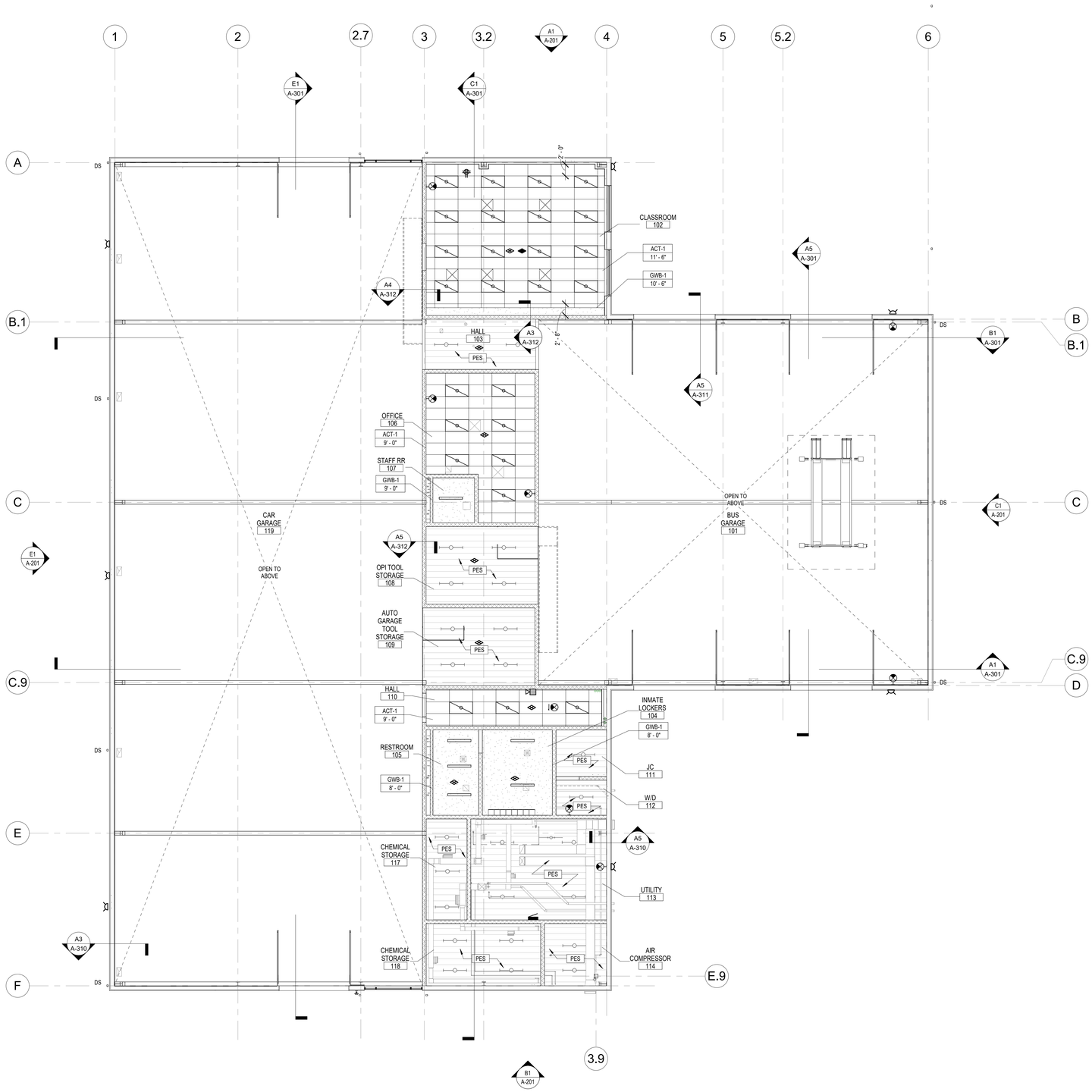
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

JOB NO.
2023352.01

A-103

9/11/2025 8:45:18 AM



A1 FIRST FLOOR - RCP
1/8" = 1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
C. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS-CHECK THE MEP DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE ORDERING / INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR IMMEDIATE CLARIFICATION.
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G. WHEN WORK, NOT SPECIFICALLY CALLED OUT, IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.
H. CEILING GRID HANGER WIRES SHALL NOT BE ATTACHED TO ROOF DECK. HANGERS TO ATTACH TO STRUCTURAL MEMBERS ONLY. MAY REQUIRE ADDITIONAL SUPPORT MEMBERS BE ADDED TO PROVIDE ADDITIONAL LIGHTING SUPPORT AND/OR CEILING SUPPORT, WHEN REQUIRED, PER SEISMIC ZONE AND LOCAL CODE. ATTACHING CEILING DIRECTLY TO DECK IS NOT PERMITTED.
I. CENTER CEILING TILE WITHIN SPACE SHOWN IN BOTH DIRECTIONS, UNLESS NOTED OTHERWISE.
J. PIPING TO BE PAINTED UNLESS OTHERWISE NOTED - SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

SHEET NOTES (#)

REFERENCED KEYNOTES

LEGEND

- GWB-1 — ABUSE RESISTANT GYPSUM BOARD CEILING — 09 29 00 A
- APC-1 — 24"x48" ACOUSTICAL PANEL CEILING — 09 51 13
- APC-2 — 24"x24" ACOUSTICAL PANEL CEILING — 09 51 13
- EXPOSED METAL DECK
- P-X — PAINT
- PES — PAINT EXPOSED STRUCTURE
- LIGHTING EQUIP. SEE ELECTRICAL DRAWINGS
- (S) (T) — HVAC EQUIPMENT SEE MECHANICAL DRAWINGS

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REV.	DATE	DESCRIPTION

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1580 STATE ROUTE 56SW
LONDON, OH 43140

FIRST FLOOR REFLECTED CEILING PLAN

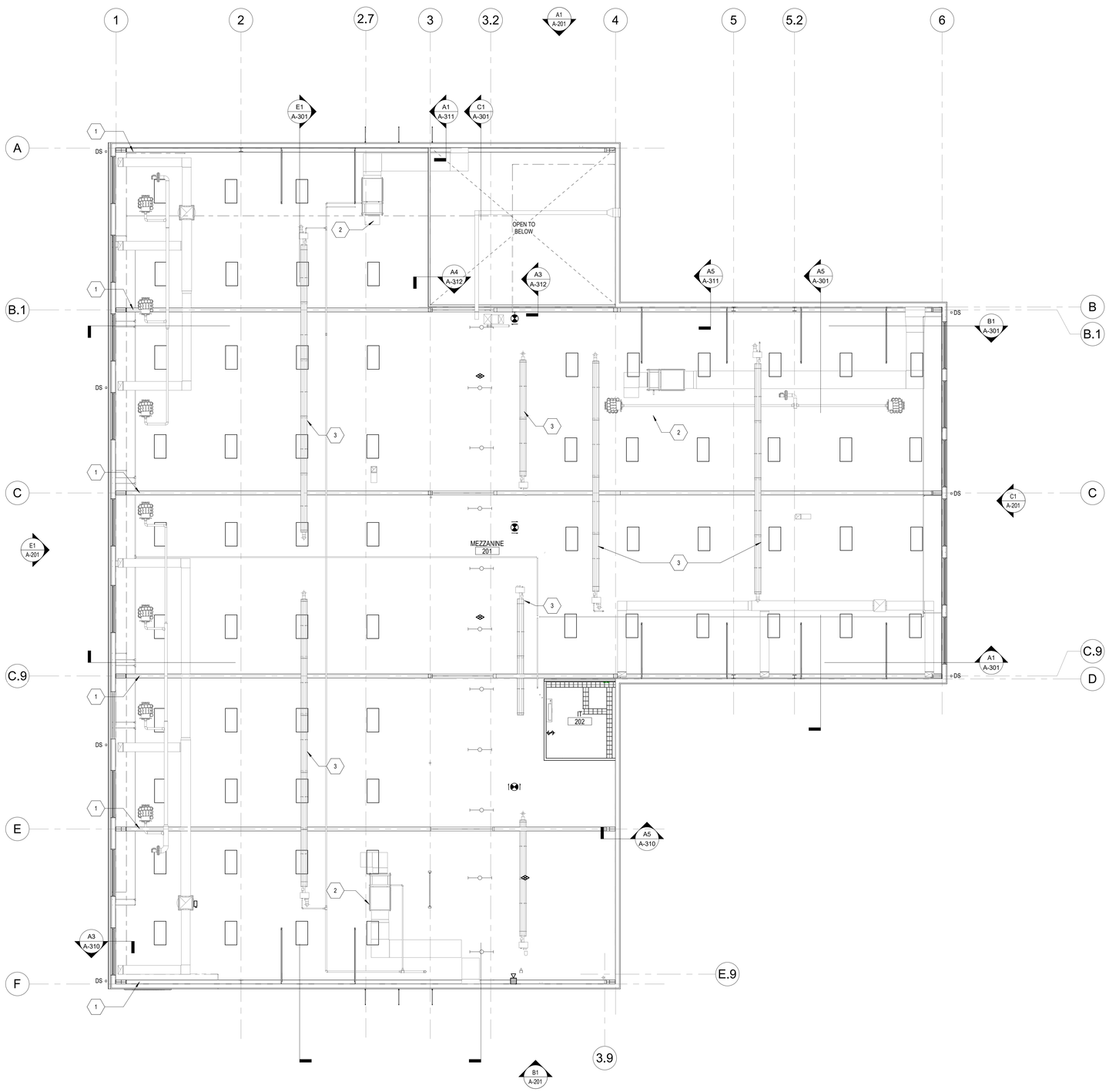
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PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

JOB NO. 2023352.01

A-121

9/11/2025 1:15:05 PM



A1 MEZZANINE - RCP
1/8" = 1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
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I. PAINT ALL EXPOSED PEMB STRUCTURE.
J. PIPING TO BE PAINTED UNLESS OTHERWISE NOTED - SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

SHEET NOTES (#)

1. PORTAL FRAME BY PEMB
2. AIR HANDLING UNIT - SEE MECHANICAL DRAWINGS.
3. RADIANT HEATER - SEE MECHANICAL DRAWINGS.

REFERENCED KEYNOTES

LEGEND

- GWB-1 ABUSE RESISTANT GYPSUM BOARD CEILING 09 29 00.A
- APC-1 24"x48" ACOUSTICAL PANEL CEILING 09 51 13
- APC-2 24"x24" ACOUSTICAL PANEL CEILING 09 51 13
- EXPOSED METAL DECK
- LIGHTING EQUIP. SEE ELECTRICAL DRAWINGS
- (S) HVAC EQUIPMENT SEE MECHANICAL DRAWINGS
- (T)
- P-X PAINT
- PES PAINT EXPOSED STRUCTURE

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LONDON, OH 43140

MEZZANINE REFLECTED CEILING PLAN

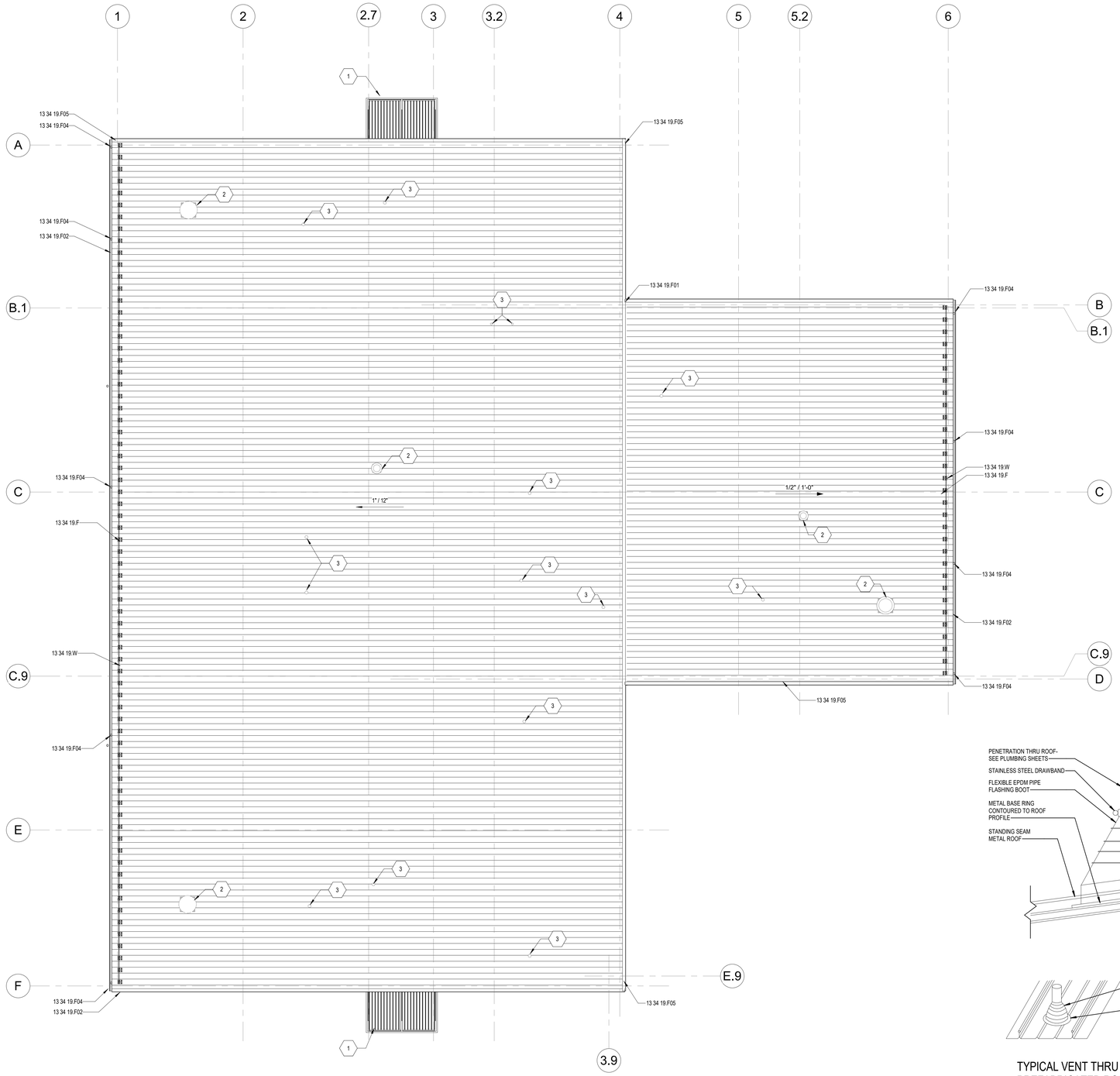
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BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

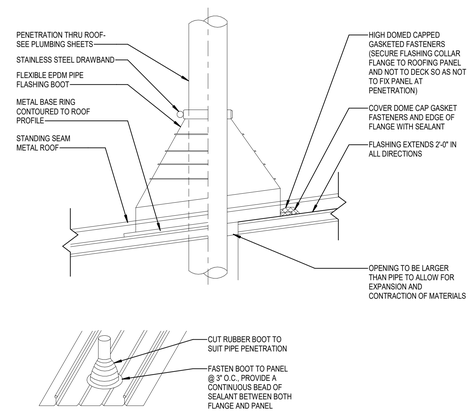
JOB NO. 2023352.01

A-122

9/11/2025 8:45:24 AM



A1 ROOF PLAN
1/8" = 1'-0"



A5 TYPICAL VENT THRU ROOF WITH PREFABRICATED ROOF JACK & FLASHING
N.T.S.

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H. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES. DRAWINGS SHOWN THIS SHEET INCLUDE ALTERNATE #2 FOR MASONRY BASE FOR REFERENCE. BASE BID TO EXCLUDE MASONRY BASE AND SHALL EXTEND PEMB EXTERIOR WALL PANEL TO GROUND LEVEL. SEE A-501.

SHEET NOTES (#)

1. (ALTERNATE #1) CANOPY.
2. ROOF EXHAUST FAN - SEE MECHANICAL DRAWINGS.
3. VENT THRU ROOF - SEE MECHANICAL DRAWINGS - SEE DETAIL A5/A-141.

REFERENCED KEYNOTES

13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F01	METAL ROOF RIDGE TRIM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F04	METAL ROOF DOWNSPOUT
13 34 19.F05	METAL ROOF SCULPTURED RAKE TRIM
13 34 19.W	SNOW GUARD

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REV.	DATE	DESCRIPTION

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LONDON, OH 43140

ROOF PLAN

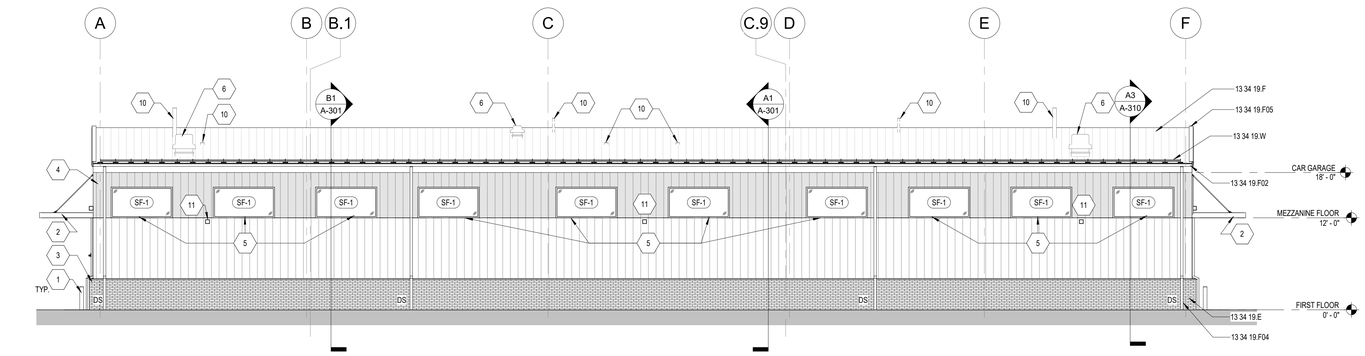
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PERMIT	08/25/2025
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CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

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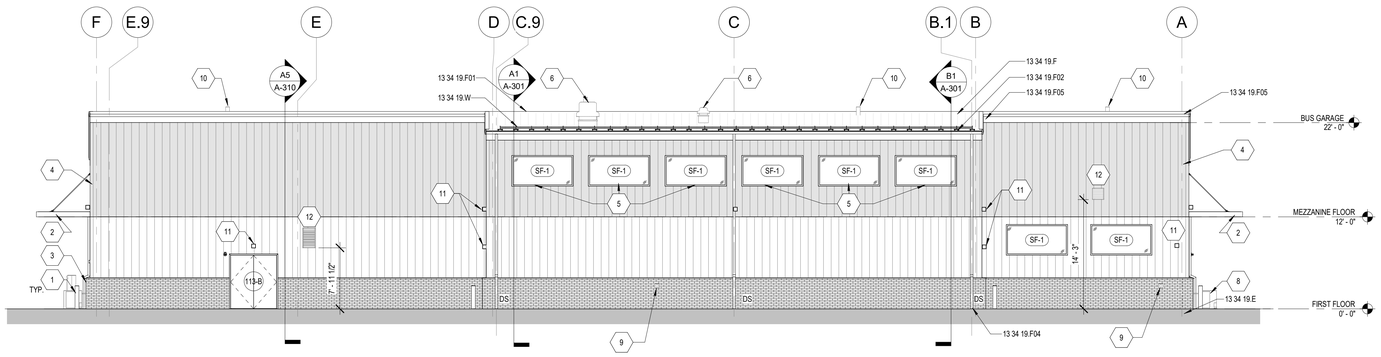
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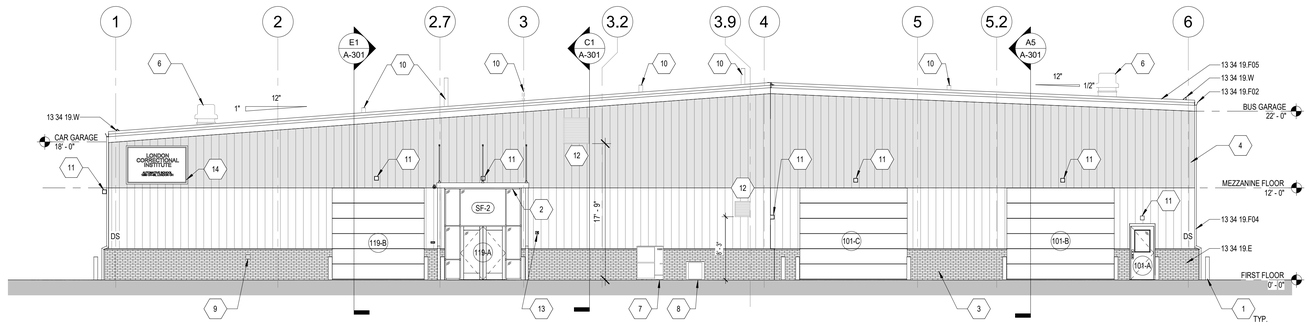
E1 WEST ELEVATION

1/8" = 1'-0"



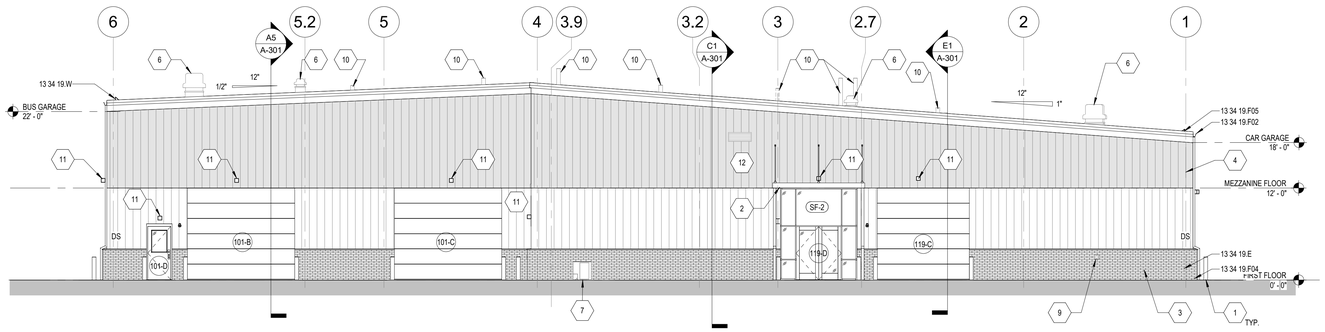
C1 EAST ELEVATION

1/8" = 1'-0"



B1 SOUTH ELEVATION

1/8" = 1'-0"



A1 NORTH ELEVATION

1/8" = 1'-0"

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SHEET NOTES

1. STEEL BOLLARD WITH COVER, TYPICAL. SEE BOLLARD LOCATION LAYOUT PLAN A-101 FOR LAYOUT DIMENSIONS AND LOCATIONS. SEE CIVIL FOR BOLLARDS DETAILS AND STRUCTURAL FOR FOUNDATION DETAILS.
2. (ALTERNATE #1) CANOPY.
3. (ALTERNATE #2) 4'H BRICK VENEER WAINSCOT.
4. (ALTERNATE #3) PROVIDE PAINTED ACCENT BAND.
5. (ALTERNATE #4) CLERESTORY WINDOWS.
6. ROOF EXHAUST FAN - SEE MECHANICAL DRAWINGS.
7. AIR CONDENSING UNIT - SEE MECHANICAL DRAWINGS.
8. AIR CONDITIONING UNIT - SEE MECHANICAL DRAWINGS.
9. WALL HYDRANT - SEE PLUMBING DRAWINGS.
10. VENT THRU ROOF - SEE PLUMBING DRAWINGS.
11. LIGHT FIXTURE - CENTER ON OPENING 12" ABOVE, UNO.
12. LOUVER - SEE MECHANICAL DRAWINGS. PROVIDE LOUVER FINISH TO MATCH ADJACENT EXTERIOR WALL PANEL FINISH.
13. SURFACE MOUNTED KNOX BOX.
14. BUILDING MOUNTED SIGNAGE - SEE DETAIL D3/A-501.

REFERENCED KEYNOTES

13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F01	METAL ROOF RIDGE TRIM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F04	METAL ROOF DOWNSPOUT
13 34 19.F05	METAL ROOF SCULPTURED RAKE TRIM
13 34 19.W	SNOW GUARD

LEGEND

13 49 19.E - METAL PANEL COLOR 1

13 49 19.E - METAL PANEL COLOR 2 [ALT #3]

04 20 00.A1 - BRICK VENEER [ALT #2]

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EXTERIOR ELEVATIONS

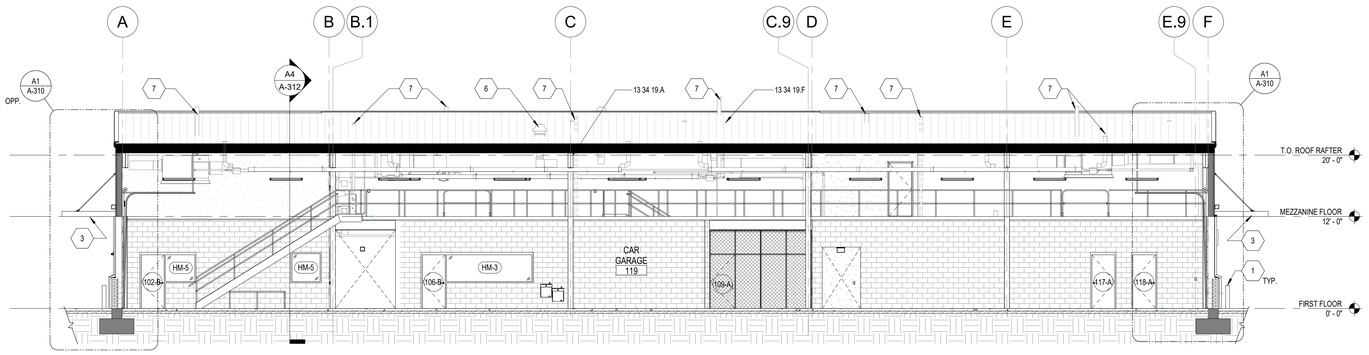
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BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

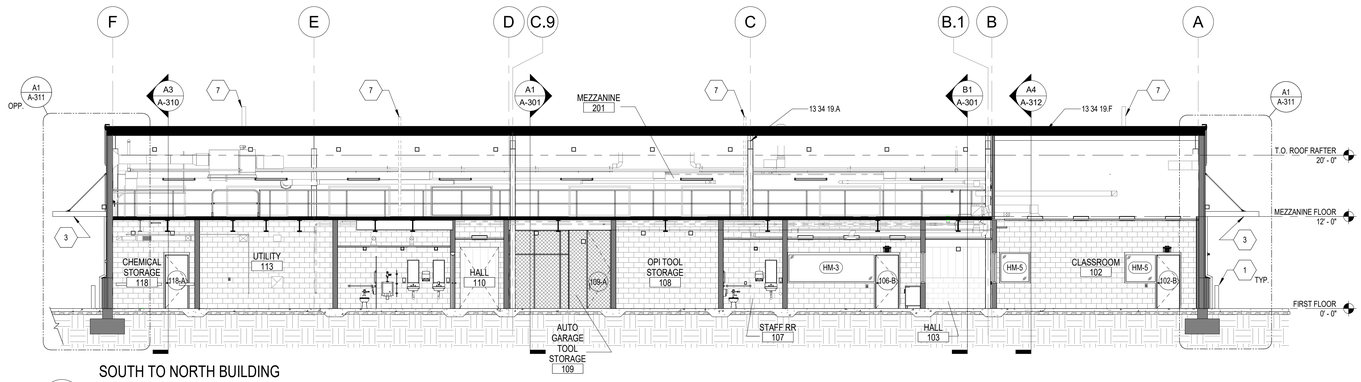
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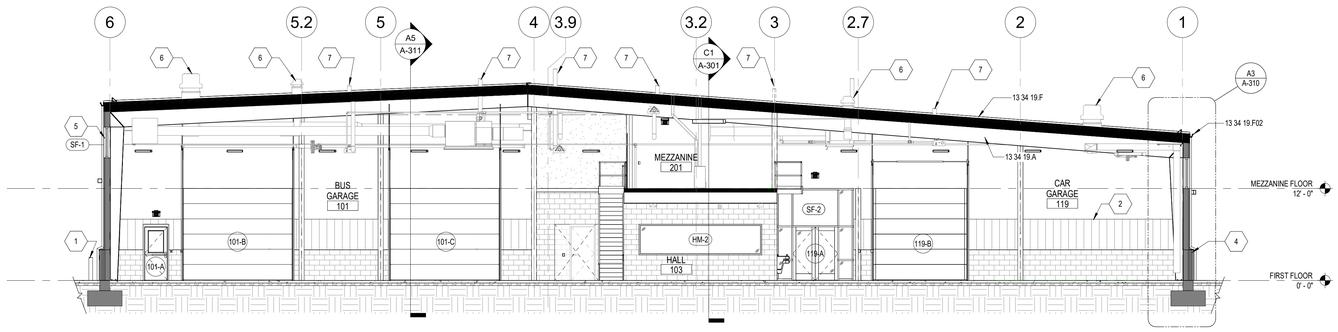
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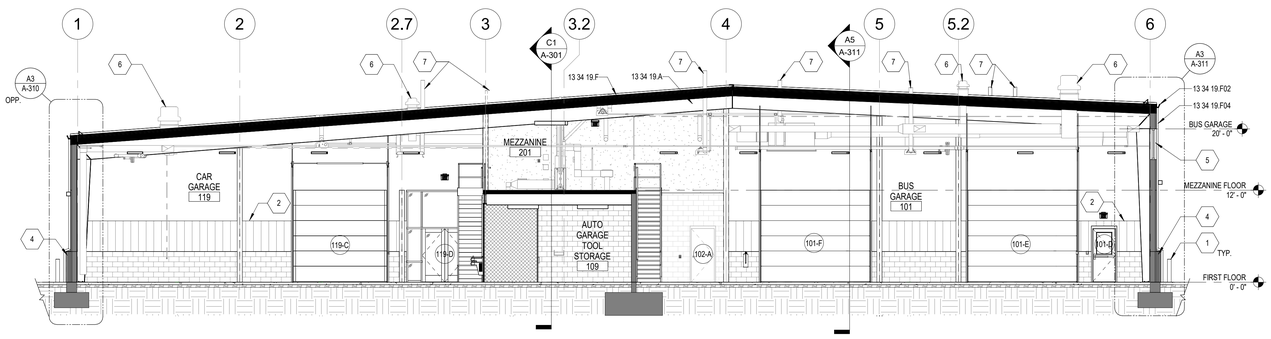
E1 NORTH TO SOUTH BUILDING SECTION
1/8" = 1'-0"



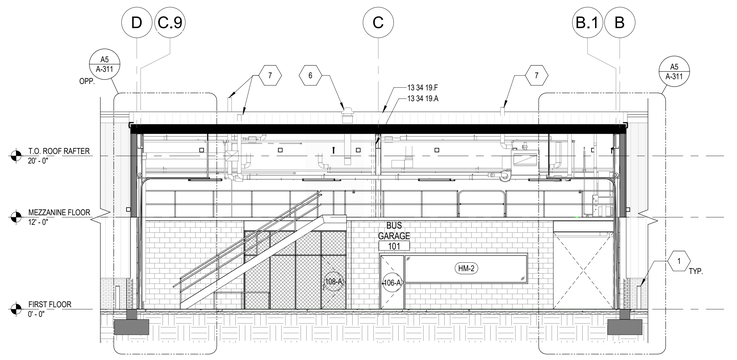
C1 SOUTH TO NORTH BUILDING SECTION
1/8" = 1'-0"



B1 WEST TO EAST BUILDING SECTION
1/8" = 1'-0"



A1 EAST TO WEST BUILDING SECTION
1/8" = 1'-0"



A5 SOUTH TO NORTH BUILDING SECTION
1/8" = 1'-0"

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A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
C. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS-CHECK THE MEP DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE ORDERING / INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR IMMEDIATE CLARIFICATION.
D. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE TENANT AND LANDLORD/ BUILDING OWNER, AND THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
E. GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
F. WHERE THERE MAY BE A CONFLICT IN THE SPECIFICATIONS AND/OR DRAWINGS, THEN THE MORE EXPENSIVE LABOR, MATERIALS AND EQUIPMENT SHALL BE ASSUMED TO BE REQUIRED AND SHALL BE PROVIDED BY THE GENERAL CONTRACTOR TO THE SATISFACTION OF THE TENANT.
G. WHEN WORK, NOT SPECIFICALLY CALLED OUT, IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.
H. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES. DRAWINGS SHOWN THIS SHEET INCLUDE ALTERNATE #2 FOR MASONRY BASE FOR REFERENCE. BASE BID TO EXCLUDE MASONRY BASE AND SHALL EXTEND PEMB EXTERIOR WALL PANEL TO GROUND LEVEL. SEE A-501.

SHEET NOTES (#)

1. STEEL BOLLARD WITH COVER, TYPICAL. SEE BOLLARD LOCATION LAYOUT PLAN A-101 FOR LAYOUT DIMENSIONS AND LOCATIONS. SEE CIVIL FOR BOLLARDS DETAILS AND STRUCTURAL FOR FOUNDATION DETAILS.
2. PEMB INTERIOR METAL LINER PANEL TO 8'-0" +/- AFF (OR NEXT GIRT).
3. (ALTERNATE #1) CANOPY.
4. (ALTERNATE #2) 4'H BRICK VENEER WAINSCOT.
5. (ALTERNATE #4) CLERESTORY WINDOWS.
6. ROOF EXHAUST FAN - SEE MECHANICAL DRAWINGS.
7. VENT THRU ROOF - SEE PLUMBING DRAWINGS.

REFERENCED KEYNOTES

13 34 19.A	STRUCTURAL STEEL FRAMING SYSTEM
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F04	METAL ROOF DOWNSPOUT

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REV.	DATE	DESCRIPTION

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1580 STATE ROUTE 56SW
LONDON, OH 43140

BUILDING SECTIONS

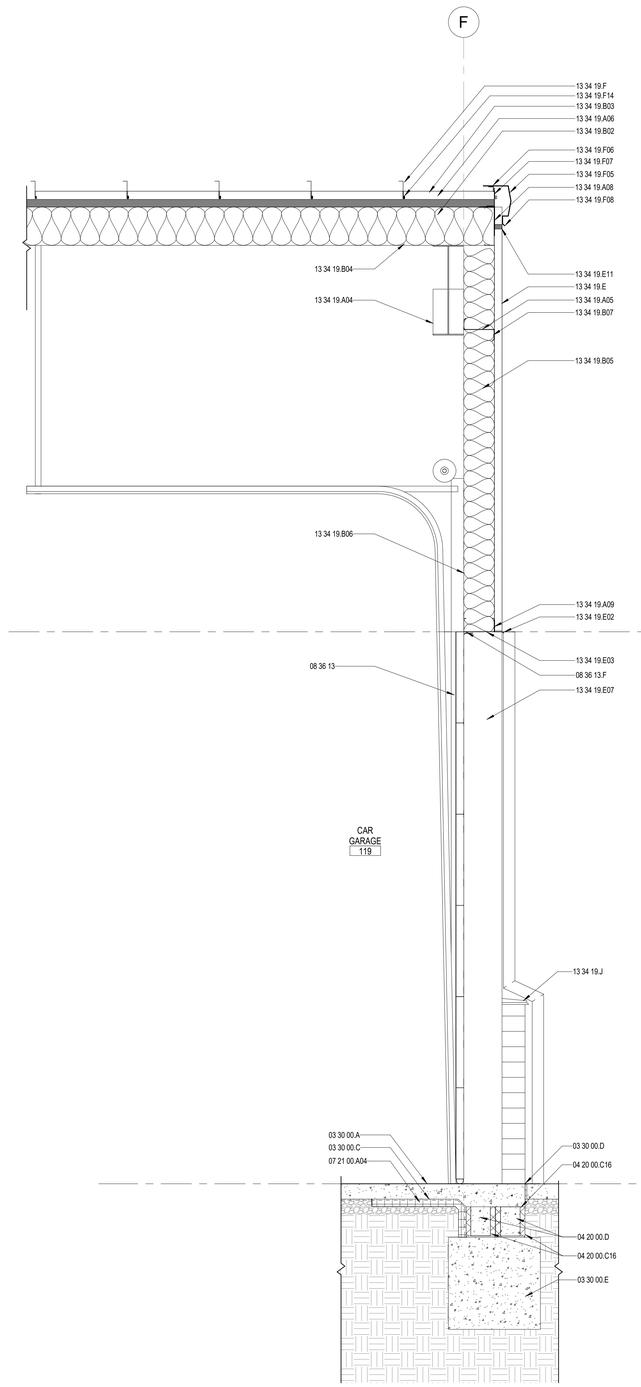
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

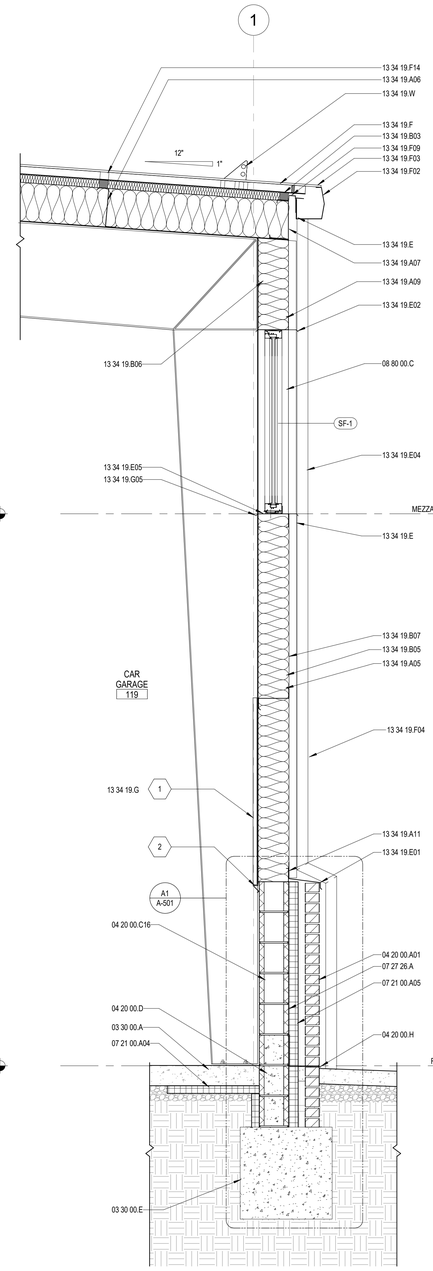
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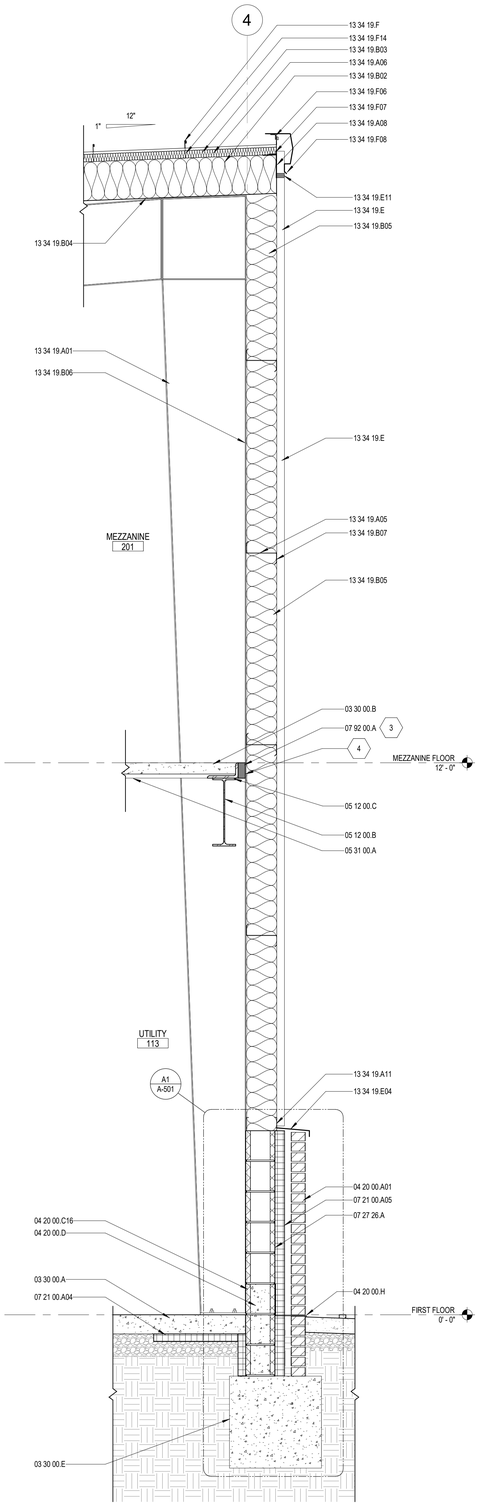
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A1 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A5 WALL SECTION
3/4" = 1'-0"

GENERAL SHEET NOTES

1. 1. PEMB ELEVATIONS INDICATE TOP OF STEEL FRAME AND BOTTOM OF ROOF PURLINS AT THE COLUMN LINE.
2. SEE A-501 FOR INTERIOR WALL TYPES.
3. SEE A-600 SERIES SHEETS FOR ALL DOOR AND WINDOW DETAILS.
4. FOOTER SIZE AND DEPTH VARIES - SEE STRUCTURAL DRAWINGS.
5. EXTERIOR GRADE VARIES - SEE CIVIL DRAWINGS.
6. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES

SHEET NOTES (#)

1. PEMB METAL LINER PANEL TO 8'-0" OR NEXT GIRT OVER INSULATION FABRIC VAPOR BARRIER AND BANDING.
2. METAL LINER PANEL ANGLED RETURN BASE FLASHING.
3. PAINTABLE SEAANT (BOTH SIDES - OVER COMPRESSIBLE MINERAL WOOL)
4. PEMB ENGINEER TO PROVIDE BLOCKING OR STRUCTURE AT SLAB TO HOLD COMPRESSIBLE INSUALTION.

REFERENCED KEYNOTES

03 30 00.A	CONCRETE SLAB ON GRADE
03 30 00.B	COMPOSITE SLAB
03 30 00.C	VAPOR BARRIER
03 30 00.D	JOINT FILLER
03 30 00.E	CONCRETE FOOTING - REFER TO STRUCTURAL DWGS.
04 20 00.A01	CLAY MASONRY VENEER [TYPE 1]
04 20 00.C16	STANDARD CMU [8x8x16]
04 20 00.D	GROUT FILL
04 20 00.H	EMBEDDED FLASHING
05 12 00.B	STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL DWGS.
05 12 00.C	STRUCTURAL STEEL ANGLE - REFER TO STRUCTURAL DWGS.
05 31 00.A	METAL DECK - REFER TO STRUCTURAL DWGS.
07 21 00.A04	BOARD INSULATION [2" R-10 MIN.]
07 21 00.A05	BOARD INSULATION [2 1/2" R-12.5 MIN.]
07 27 26.A	FLUID-APPLIED MEMBRANE AIR BARRIER
07 92 00.A	SEALANT
08 36 13	SECTIONAL DOORS
08 36 13.F	WEATHERSTRIPPING
08 80 00.C	INSULATING GLASS
13 34 19.A01	RIGID FRAME COLUMN
13 34 19.A04	ENDWALL RAFTER
13 34 19.A05	WALL GIRT
13 34 19.A06	ROOF PURLIN
13 34 19.A07	EAVE STRUT
13 34 19.A08	RAKE ANGLE
13 34 19.A09	HEADER CHANNEL
13 34 19.A11	BASE CHANNEL
13 34 19.B02	ROOF INSULATION FULL CAVITY BETWEEN PURLINS [R-30 MIN.]
13 34 19.B03	ROOF THERMAL SPACER BLOCK [R-3 MIN.]
13 34 19.B04	ROOF INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B05	WALL INSULATION FULL CAVITY BETWEEN GIRTS [R-25 MIN.]
13 34 19.B06	WALL INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B07	WALL INSULATION THERMAL TAPE
13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.E01	METAL WALL PANEL BASE FLASHING
13 34 19.E02	METAL WALL PANEL HEAD FLASHING
13 34 19.E03	METAL WALL PANEL HEAD CAP TRIM
13 34 19.E04	METAL WALL PANEL SILL FLASHING
13 34 19.E05	METAL WALL PANEL SILL CAP TRIM
13 34 19.E07	METAL WALL PANEL JAMB CAP TRIM
13 34 19.E11	METAL WALL PANEL OUTSIDE CLOSURE
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F03	METAL ROOF GUTTER STRAP
13 34 19.F04	METAL ROOF DOWNSPOUT
13 34 19.F05	METAL ROOF SCULPTURED RAKE TRIM
13 34 19.F06	METAL ROOF RAKE CLEAT
13 34 19.F07	METAL ROOF RAKE SUPPORT ANGLE
13 34 19.F08	METAL ROOF RAKE SLIDE
13 34 19.F09	METAL ROOF CAP TRIM
13 34 19.F14	METAL ROOF FLOATING CLIP
13 34 19.G	METAL WALL PANEL LINER SYSTEM
13 34 19.G05	METAL WALL PANEL LINER SILL TRIM FLASHING
13 34 19.J	FLASHING
13 34 19.W	SNOW GUARD

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WALL SECTIONS

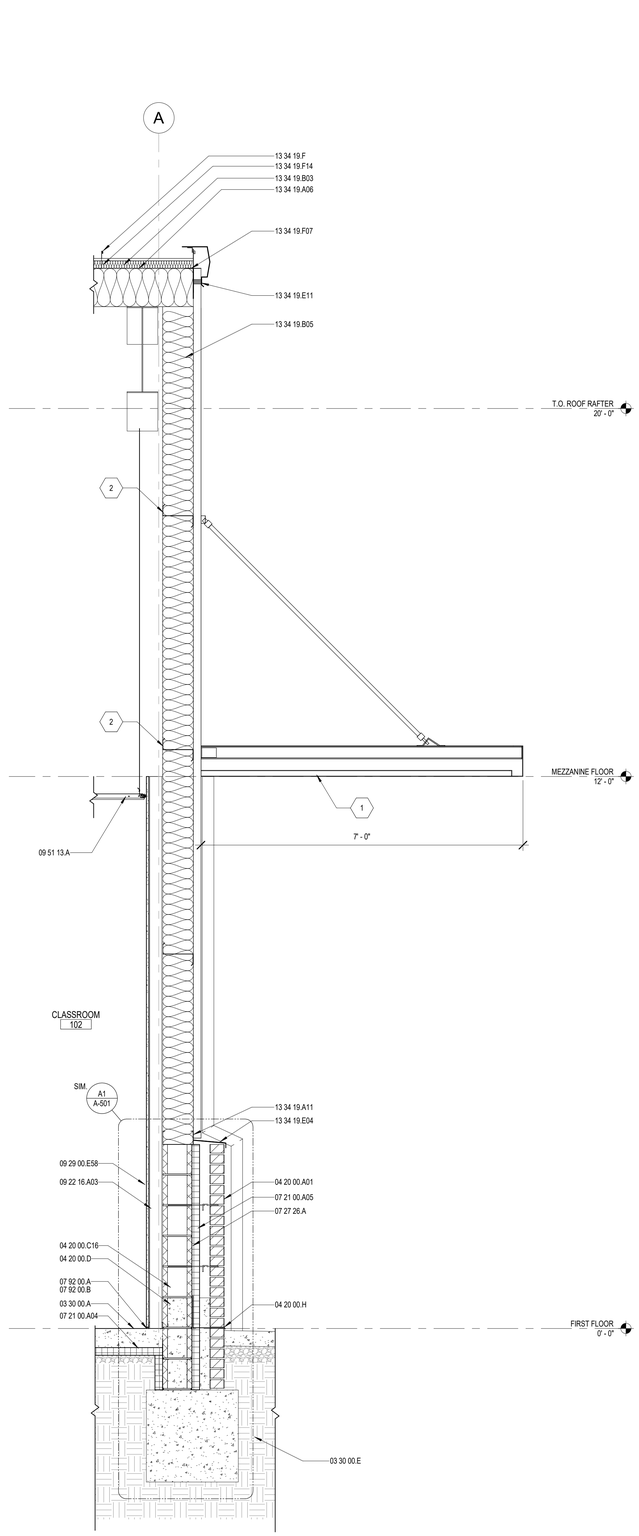
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

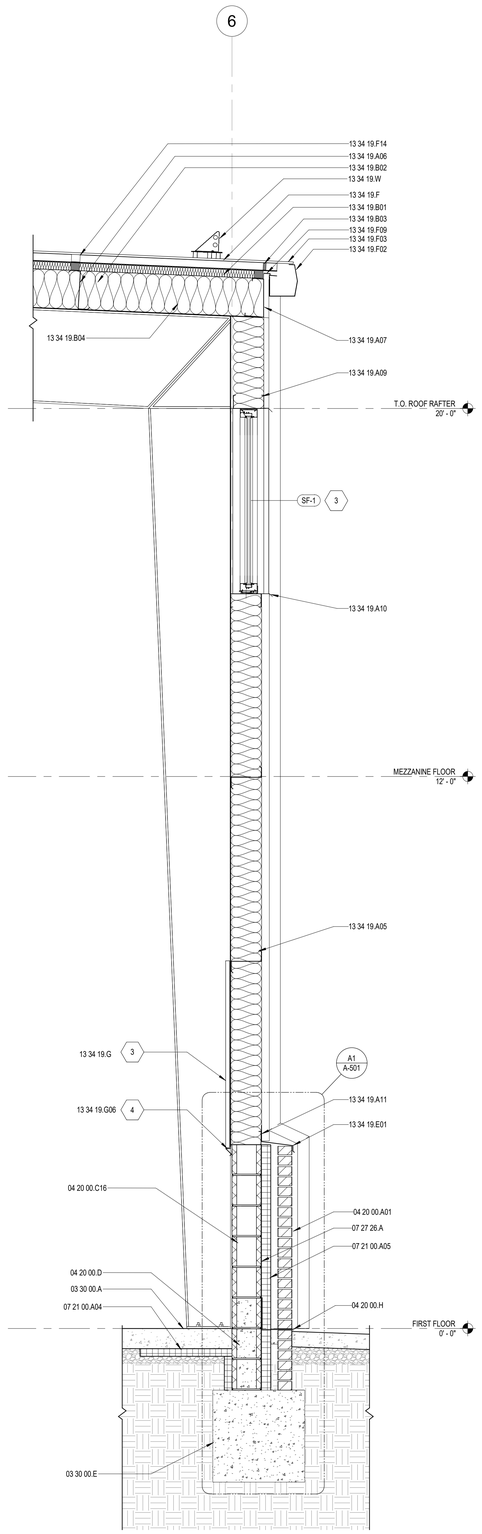
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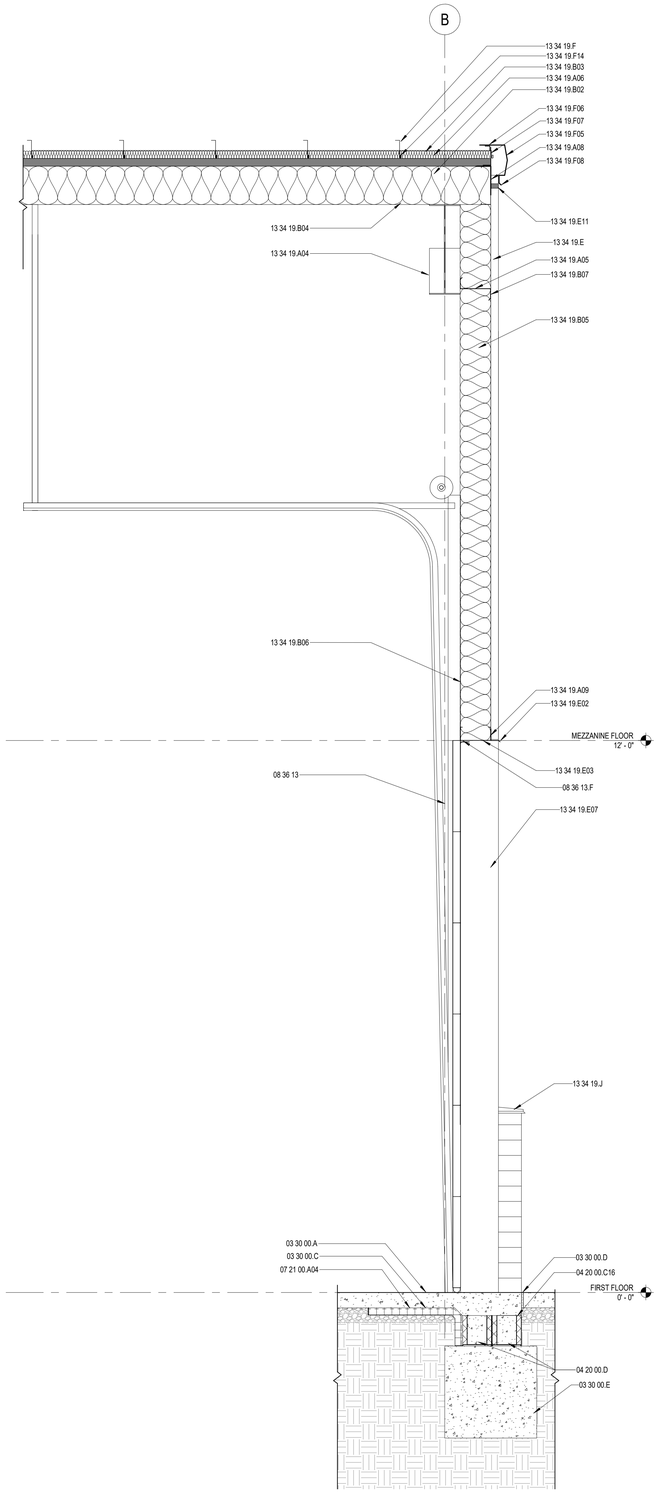
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A1 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A5 WALL SECTION
3/4" = 1'-0"

GENERAL SHEET NOTES

1. 1. PEMB ELEVATIONS INDICATE TOP OF STEEL FRAME AND BOTTOM OF ROOF PURLINS AT THE COLUMN LINE.
2. SEE A-501 FOR INTERIOR WALL TYPES.
3. SEE A-600 SERIES SHEETS FOR ALL DOOR AND WINDOW DETAILS.
4. FOOTER SIZE AND DEPTH VARIES - SEE STRUCTURAL DRAWINGS.
5. EXTERIOR GRADE VARIES - SEE CIVIL DRAWINGS.
6. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES

SHEET NOTES (#)

1. ALTERNATE #1: MAPES CANOPY - SUPER LUMIDECK WITH HANGAR ROD SUPPORTS. 2 COAT KYNAR FINISH. SOLOR TO BE SELECTED FROM MAUNFACTURERS FULL RANGE.
2. COORDINATE ADDITIONAL PEMB FRAMING REQUIRED WITH CANOPY MANUFACTURER.
3. PEMB METAL LINER PANEL TO 6' - 0" OR NEXT GIRT OVER INSULATION FABRIC VAPOR BARRIER AND BANDING.
4. METAL LINER PANEL ANGLED RETURN BASE FLASHING.

REFERENCED KEYNOTES

03 30 00.A	CONCRETE SLAB ON GRADE
03 30 00.C	VAPOR BARRIER
03 30 00.D	JOINT FILLER
03 30 00.E	CONCRETE FOOTING - REFER TO STRUCTURAL DWGS.
04 20 00.A01	CLAY MASONRY VENEER [TYPE 1]
04 20 00.C16	STANDARD CMU [8x8x16]
04 20 00.D	GROUT FILL
04 20 00.H	EMBEDDED FLASHING
07 21 00.A04	BOARD INSULATION [2" R-10 MIN.]
07 21 00.A05	BOARD INSULATION [2 1/2" R-12.5 MIN.]
07 27 26.A	FLUID-APPLIED MEMBRANE AIR BARRIER
07 92 00.A	SEALANT
07 92 00.B	BACKER ROD
08 36 13	SECTIONAL DOORS
08 36 13.F	WEATHERSTRIPPING
09 22 16.A03	STUDS AND TRACK [3 5/8" @ 16" O.C. MAX.]
09 29 00.E58	GYPSUM WALL BOARD [5/8"]
09 51 13.A	ACOUSTICAL PANEL CEILINGS
13 34 19.A04	ENDWALL RAFTER
13 34 19.A05	WALL GIRT
13 34 19.A06	ROOF PURLIN
13 34 19.A07	EAVE STRUT
13 34 19.A08	RAKE ANGLE
13 34 19.A09	HEADER CHANNEL
13 34 19.A10	SILL CHANNEL
13 34 19.A11	BASE CHANNEL
13 34 19.B01	CONTINUOUS ROOF INSULATION [R-8 MIN.]
13 34 19.B02	ROOF INSULATION FULL CAVITY BETWEEN PURLINS [R-30 MIN.]
13 34 19.B03	ROOF THERMAL SPACER BLOCK [R-3 MIN.]
13 34 19.B04	ROOF INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B05	WALL INSULATION FULL CAVITY BETWEEN GIRTS [R-25 MIN.]
13 34 19.B06	WALL INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.B07	WALL INSULATION THERMAL TAPE
13 34 19.E	METAL WALL PANEL SYSTEM
13 34 19.E01	METAL WALL PANEL BASE FLASHING
13 34 19.E02	METAL WALL PANEL HEAD FLASHING
13 34 19.E03	METAL WALL PANEL HEAD CAP TRIM
13 34 19.E04	METAL WALL PANEL SILL FLASHING
13 34 19.E07	METAL WALL PANEL JAMB CAP TRIM
13 34 19.E11	METAL WALL PANEL OUTSIDE CLOSURE
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F02	METAL ROOF SCULPTURED GUTTER
13 34 19.F03	METAL ROOF GUTTER STRAP
13 34 19.F05	METAL ROOF SCULPTURED RAKE TRIM
13 34 19.F06	METAL ROOF RAKE CLEAT
13 34 19.F07	METAL ROOF RAKE SUPPORT ANGLE
13 34 19.F08	METAL ROOF RAKE SLIDE
13 34 19.F09	METAL ROOF CAP TRIM
13 34 19.F14	METAL ROOF FLOATING CLIP
13 34 19.G	METAL WALL PANEL LINER SYSTEM
13 34 19.G06	METAL WALL PANEL LINER TRIM
13 34 19.J	FLASHING
13 34 19.W	SNOW GUARD

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WALL SECTIONS

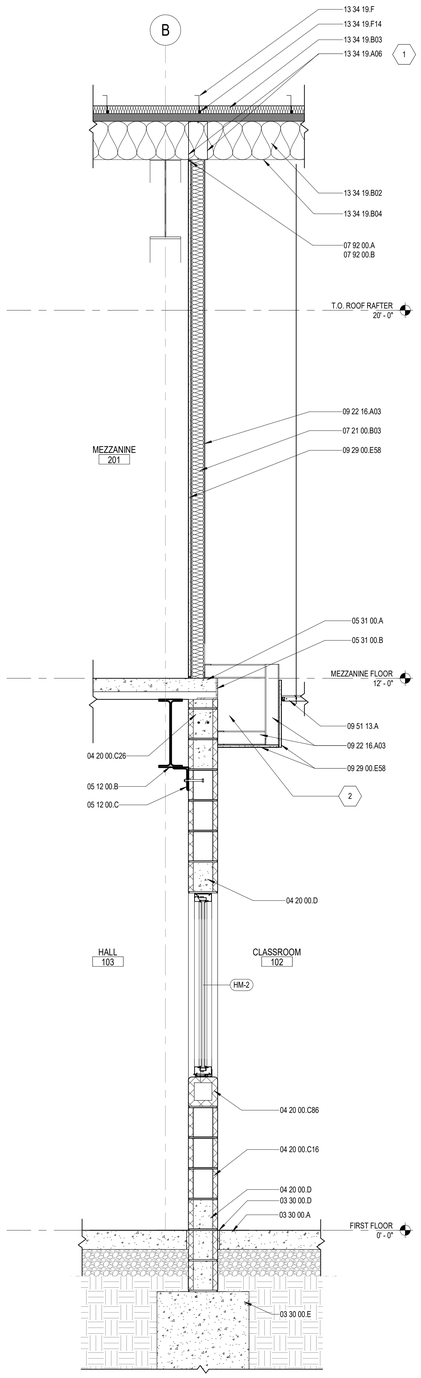
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

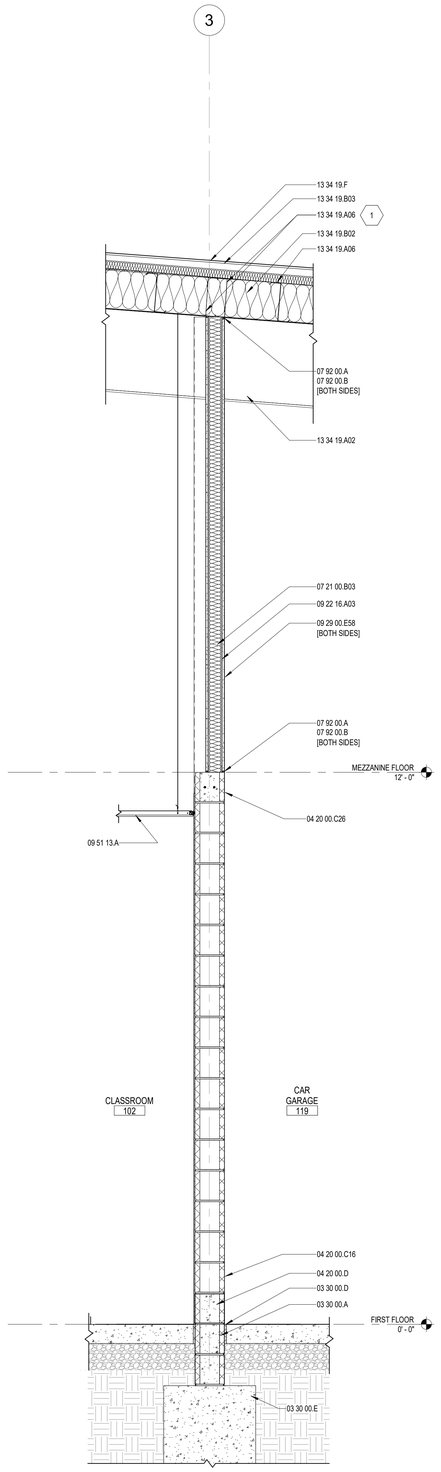
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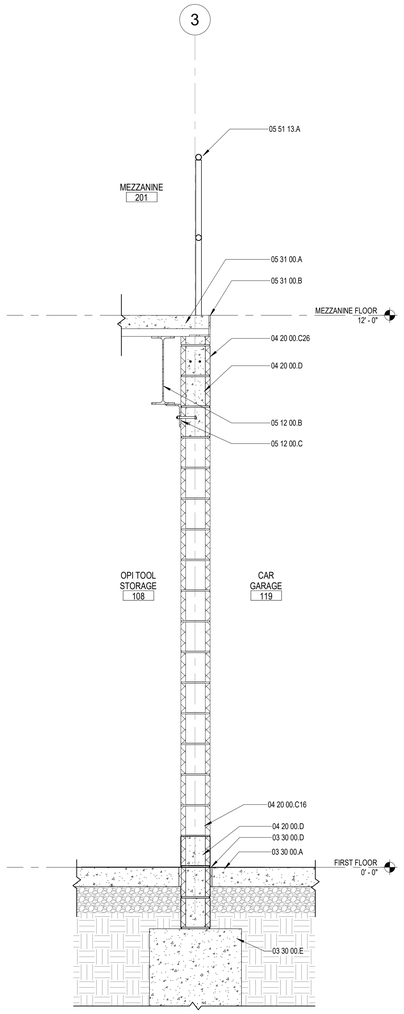
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A3 WALL SECTION
3/4" = 1'-0"



A4 WALL SECTION
3/4" = 1'-0"



A5 WALL SECTION
3/4" = 1'-0"

GENERAL SHEET NOTES

1. 1. PEMB ELEVATIONS INDICATE TOP OF STEEL FRAME AND BOTTOM OF ROOF PURLINS AT THE COLUMN LINE.
2. SEE A-501 FOR INTERIOR WALL TYPES.
3. SEE A-600 SERIES SHEETS FOR ALL DOOR AND WINDOW DETAILS.
4. FOOTER SIZE AND DEPTH VARIES - SEE STRUCTURAL DRAWINGS.
5. EXTERIOR GRADE VARIES - SEE CIVIL DRAWINGS.
6. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES

SHEET NOTES (#)

1. PROVIDE PEMB MANUFACTUER'S STANDARD CHANNELS AS REQUIRED WHERE ROOF GIRTS DO NOT OCCUR AT PROPOSED PARTITION LOCATION.
2. ELECTRICAL CONDUIT - SEE ELECTRICAL DRAWINGS.

REFERENCED KEYNOTES

03 30 00.A	CONCRETE SLAB ON GRADE
03 30 00.D	JOINT FILLER
03 30 00.E	CONCRETE FOOTING - REFER TO STRUCTURAL DWGS.
04 20 00.C16	STANDARD CMU [8x8x16]
04 20 00.C26	BOND BEAM CMU [8x8x16]
04 20 00.C86	DOUBLE BULLNOSE CMU [8x8x16]
04 20 00.D	GROUT FILL
05 12 00.B	STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL DWGS.
05 12 00.C	STRUCTURAL STEEL ANGLE - REFER TO STRUCTURAL DWGS.
05 31 00.A	METAL DECK - REFER TO STRUCTURAL DWGS.
05 31 00.B	POUR STOP - REFER TO STRUCTURAL DWGS.
05 51 13.A	RAILING/GUARDRAIL
07 21 00.B03	BATT INSULATION [3 1/2"]
07 92 00.A	SEALANT
07 92 00.B	BACKER ROD
09 22 16.A03	STUDS AND TRACK [3 5/8" @ 16" O.C. MAX.]
09 29 00.E58	GYPSUM WALL BOARD [5/8"]
09 51 13.A	ACOUSTICAL PANEL CEILINGS
13 34 19.A02	RIGID FRAME RAFTER
13 34 19.A06	ROOF PURLIN
13 34 19.B02	ROOF INSULATION FULL CAVITY BETWEEN PURLINS [R-30 MIN.]
13 34 19.B03	ROOF THERMAL SPACER BLOCK [R-3 MIN.]
13 34 19.B04	ROOF INSULATION FABRIC VAPOR BARRIER AND BANDING
13 34 19.F	METAL ROOF PANEL SYSTEM
13 34 19.F14	METAL ROOF FLOATING CLIP

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WALL SECTIONS

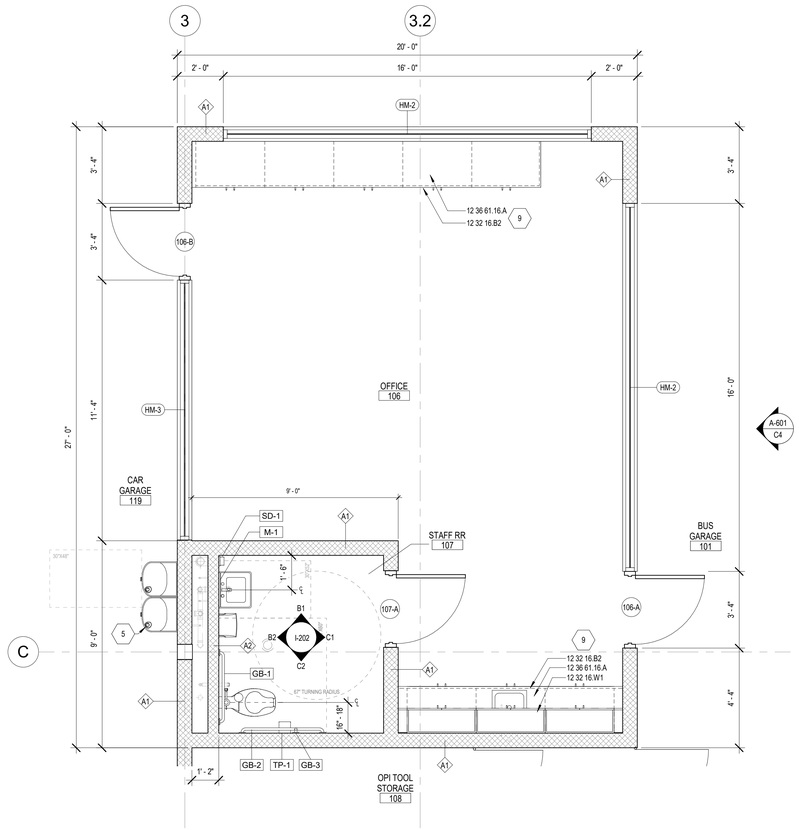
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PROJECT MANAGER	DESIGNER
	Designer

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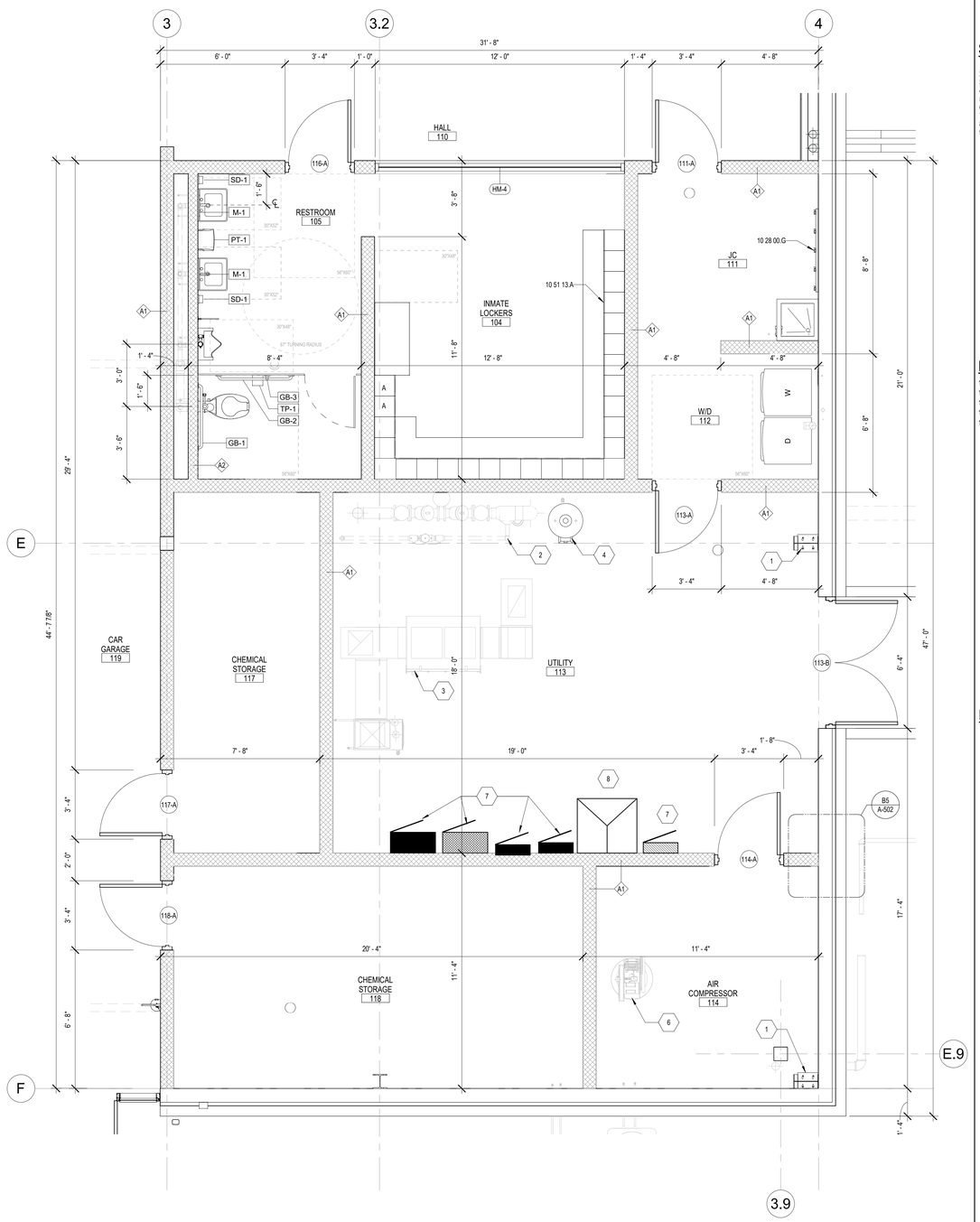
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A1 ENLARGED PLAN - ADMINISTRATIVE

3/8" = 1'-0"



A3 ENLARGED PLAN - UTILITY

3/8" = 1'-0"

GENERAL SHEET NOTES

A. DO NOT SCALE DRAWINGS.
B. BUILDING SHALL BE CONSTRUCTED TO MEET MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ASHRAE / IES STANDARD 90.1 AND ASHRAE STANDARD 189.
C. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CROSS-CHECK THE MEP DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE ORDERING / INSTALLATION OF MECHANICAL, ELECTRICAL, AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND MEP DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION FOR IMMEDIATE CLARIFICATION.
D. COORDINATE WORK WITH OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE TENANT AND LANDLORD/ BUILDING OWNER, AND THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
E. GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
F. WHERE THERE MAY BE A CONFLICT IN THE SPECIFICATIONS AND/OR DRAWINGS, THEN THE MORE EXPENSIVE LABOR, MATERIALS AND EQUIPMENT SHALL BE ASSUMED TO BE REQUIRED AND SHALL BE PROVIDED BY THE GENERAL CONTRACTOR TO THE SATISFACTION OF THE TENANT.
G. WHEN WORK, NOT SPECIFICALLY CALLED OUT, IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITH THE BEST MATERIALS AND WORKMANSHIP.
H. SEE G-002 FOR ACCESSIBILITY REQUIREMENTS.

SHEET NOTES

1. PORTAL FRAME BY PEMB ENGINEER.
2. FURNACE - SEE MECHANICAL DRAWINGS.
3. ENERGY RECOVERY VENTILATOR - SEE MECHANICAL DRAWINGS.
4. WATER HEATER - SEE MECHANICAL DRAWINGS.
5. DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS.
6. AIR COMPRESSOR - SEE MECHANICAL DRAWINGS.
7. ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS.
8. TRANSFORMER - SEE ELECTRICAL DRAWINGS.
9. (ALTERNATE #5) CASEWORK.

REFERENCED KEYNOTES

10 28 00.G	MOP AND BROOM HOLDER
10 51 13.A	LOCKER UNIT [-TYPE]
12 32 16.B2	DOOR BASE
12 32 16.W1	WALL CABINET
12 36 61.16.A	SOLID SURFACE MATERIAL COUNTERTOP

LEGEND

10 28 00 TOILET ROOM ACCESSORIES
GB-1 GRAB BAR, 36"
GB-2 GRAB BAR, 42"
GB-3 GRAB BAR, 18"
SD-1 SOAP DISPENSER
TP-1 TOILET PAPER DISPENSER
M-1 MIRROR 18" X 36"

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ENLARGED PLANS

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PERMIT	08/25/2025
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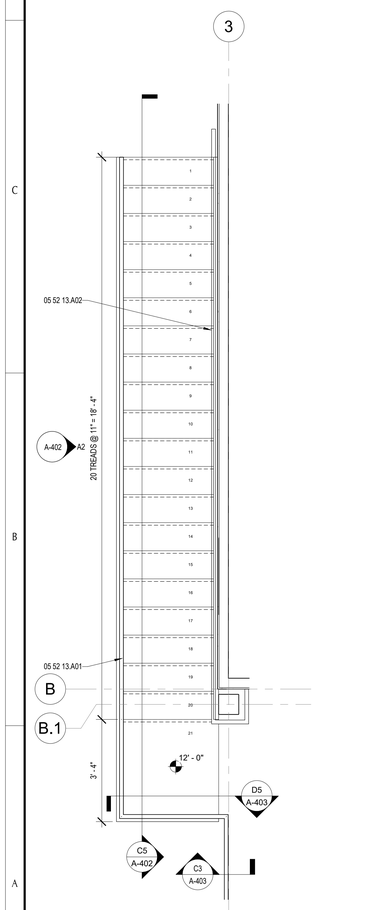
PROJECT MANAGER	DESIGNER
RD	KC

JOB NO. 2023352.01

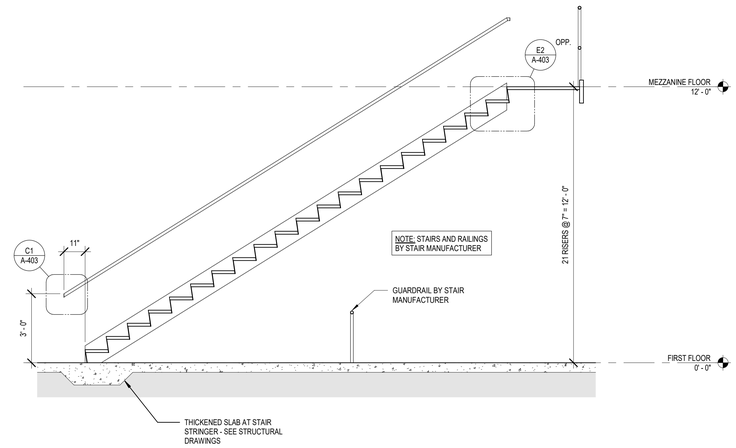
A-401

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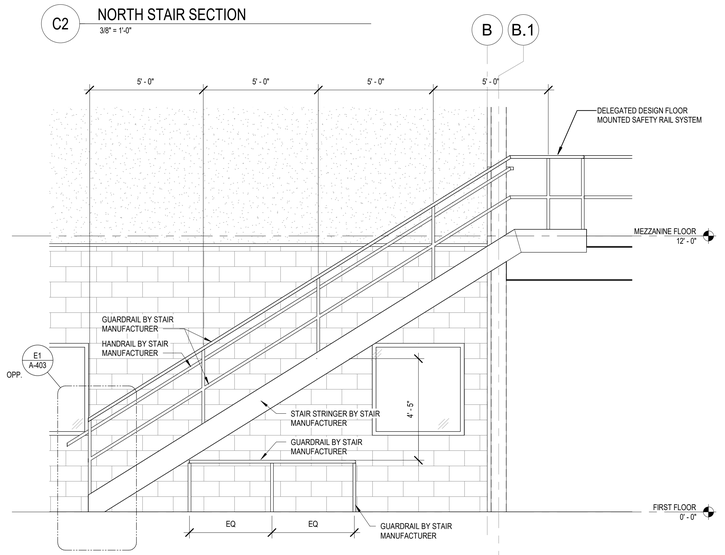
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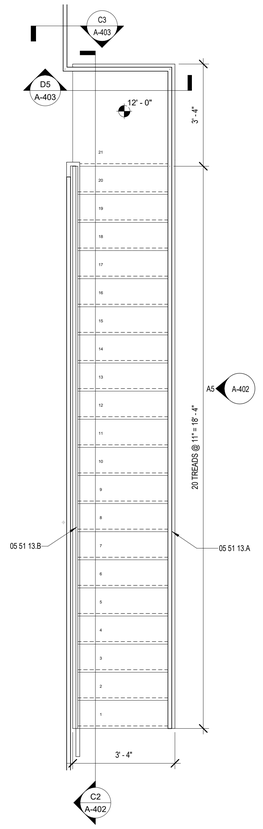
A1 NORTH STAIR - ENLARGED FLOOR PLAN
1/2" = 1'-0"



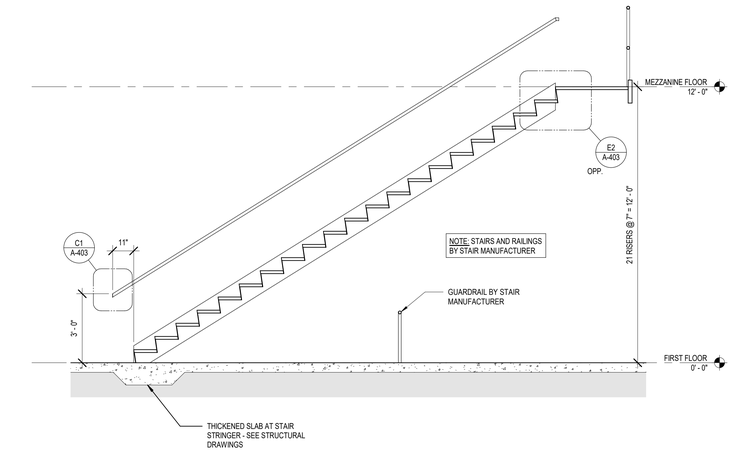
C2 NORTH STAIR SECTION
3/8" = 1'-0"



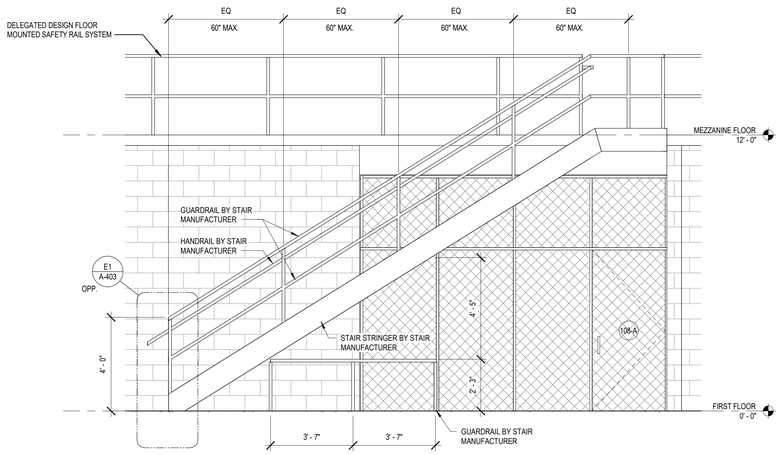
A2 NORTH STAIR ELEVATION
3/8" = 1'-0"



A3 SOUTH STAIR - ENLARGED FLOOR PLAN
1/2" = 1'-0"



C5 SOUTH STAIR SECTION
3/8" = 1'-0"



A5 SOUTH STAIR ELEVATION
3/8" = 1'-0"

REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

ENLARGED STAIR PLAN, ELEVATIONS, SECTIONS

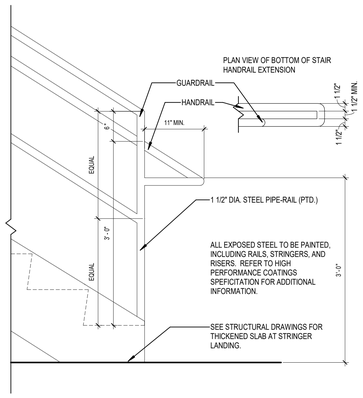
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

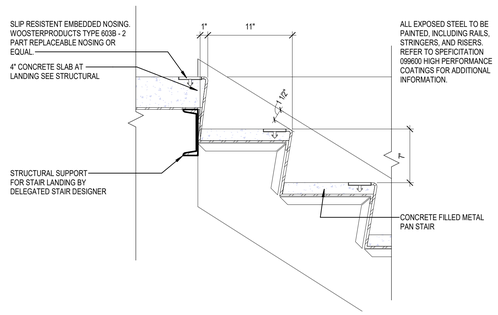
JOB NO.
2023352.01

A-402

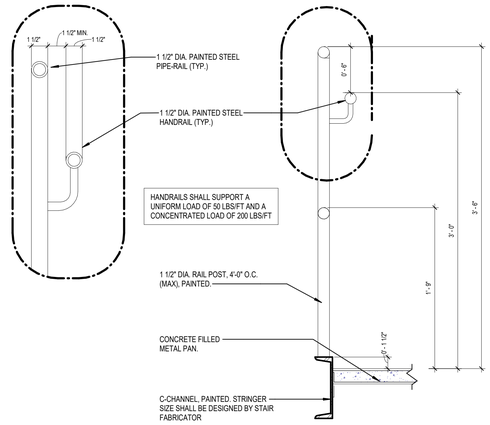
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E1 STAIR DETAIL AT FLOOR
1" = 1'-0"



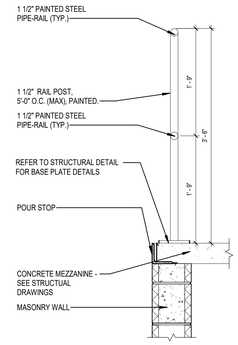
E2 STAIR DETAIL AT LANDING
1 1/2" = 1'-0"



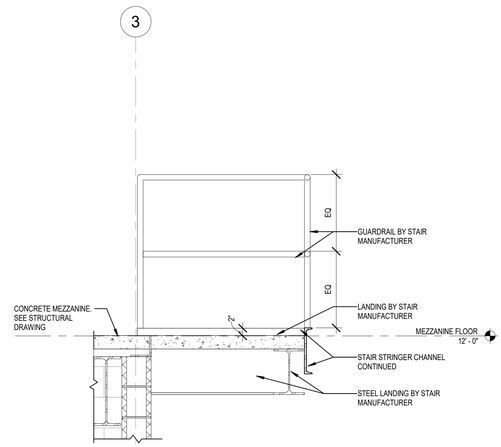
E3 GUARDRAIL/ HANDRAIL
1 1/2" = 1'-0"

C1 HANDRAIL ELEVATION DETAIL
1 1/2" = 1'-0"

C2 HANDRAIL RETURN DETAIL
1 1/2" = 1'-0"



C3 MEZZANINE GUARDRAIL
1" = 1'-0"



D5 SECTION AT MEZZANINE LANDING
3/4" = 1'-0"

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DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

STAIR DETAILS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

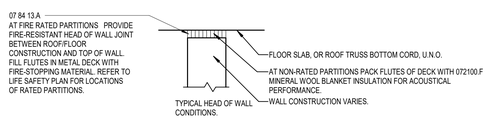
PROJECT MANAGER	DESIGNER
RD	KC

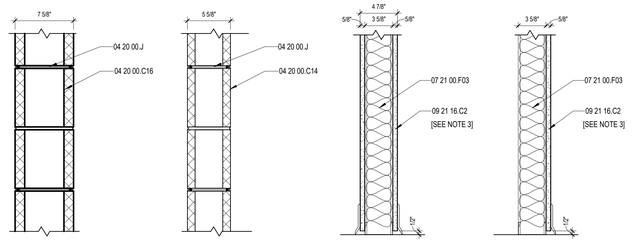
JOB NO.
2023352.01

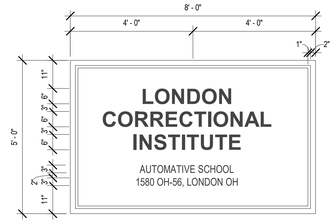
A-403

9/11/2025 8:46:08 AM

WALL TYPE NOTES:
1. ALL WALLS ARE TO TERMINATE AT UNDERSIDE OF ROOF DECK OR FLOOR ABOVE UNLESS NOTED OTHERWISE.
2. ALL WALLS SHOWN IN LEGEND AS ACTUAL DIMENSIONS, PLAN DIMENSION IS NOMINAL.

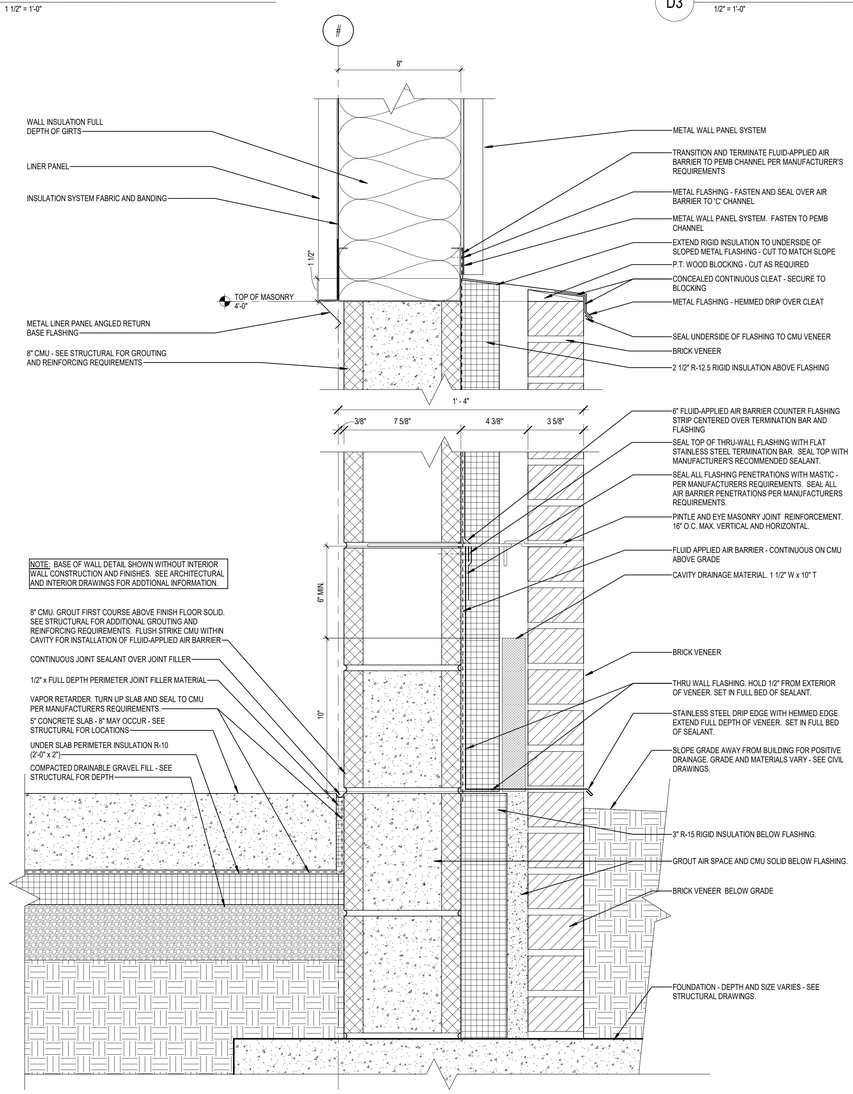




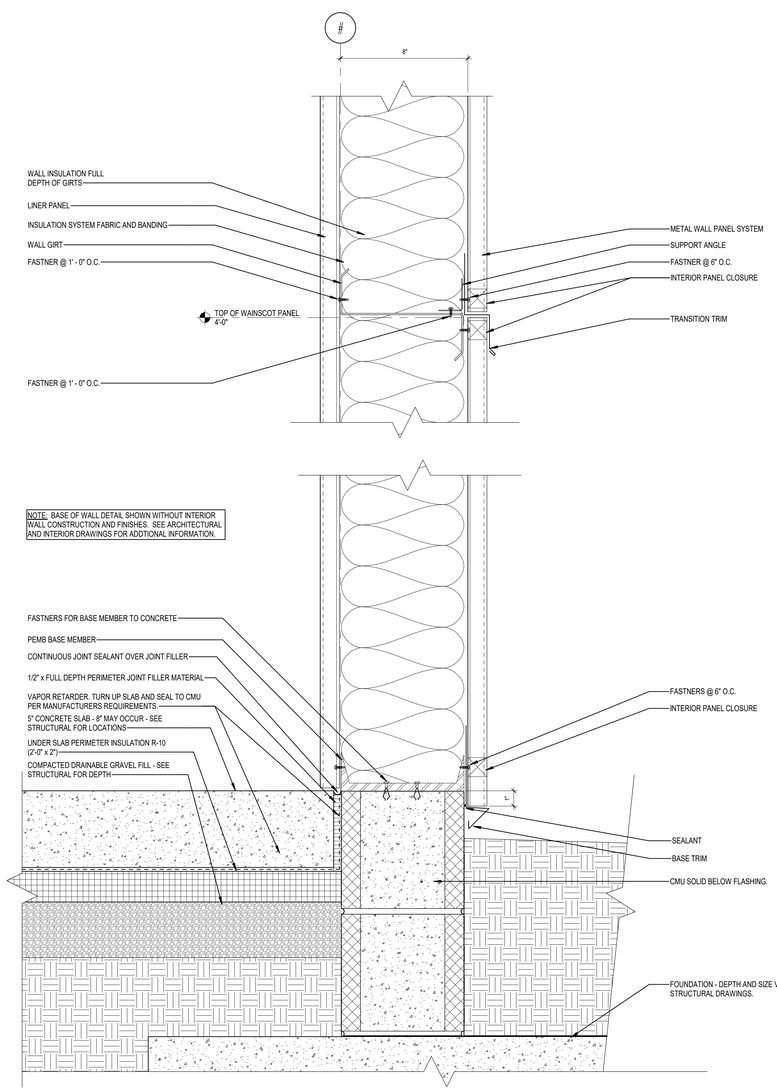


D1 WALL TYPE LEGEND
1 1/2" = 1'-0"

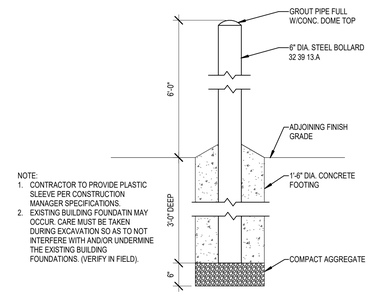
D3 BUILDING MOUNTED SIGNAGE
1/2" = 1'-0"



A1 BASE OF WALL
3" = 1'-0" (ALTERNATE # 2)



A4 BASE OF WALL
3" = 1'-0" (BASE BID)



NOTE:
1. CONTRACTOR TO PROVIDE PLASTIC SLEEVE PER CONSTRUCTION MANAGER SPECIFICATIONS.
2. EXISTING BUILDING FOUNDATIN MAY OCCUR. CARE MUST BE TAKEN DURING EXCAVATION SO AS TO NOT INTERFERE WITH AND/OR UNDERMINE THE EXISTING BUILDING FOUNDATIONS. (VERIFY IN FIELD).

A6 BOLLARD DETAIL
3/4" = 1'-0"

GENERAL NOTES

A. REFER TO 01 23 00 ALTERNATES FOR LIST OF ALL ALTERNATES

SHEET NOTES

REFERENCED KEYNOTES

04 20 00.C14	STANDARD CMU [8x8x16]
04 20 00.C16	STANDARD CMU [8x8x16]
04 20 00.J	JOINT REINFORCEMENT
07 21 00.F03	MINERAL WOOL BLANKET [3 1/2"]
07 84 13.A	FIRESTOPPING MATERIAL
09 21 16.C2	GYPSUM WALL BOARD [5/8"]
32 39 13.A	MANUFACTURED METAL BOLLARD

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

DETAILS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

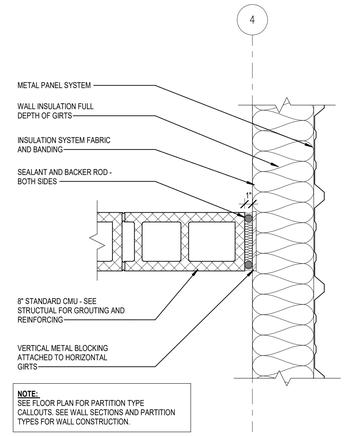
PROJECT MANAGER	DESIGNER
RD	KC

JOB NO. 2023352.01

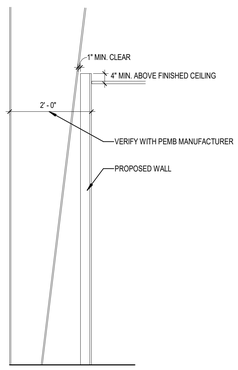
A-501

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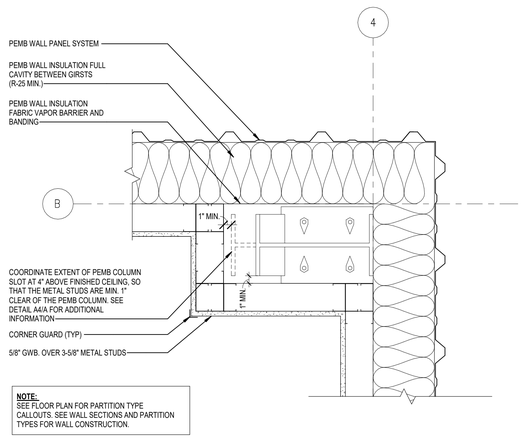
GENERAL NOTES



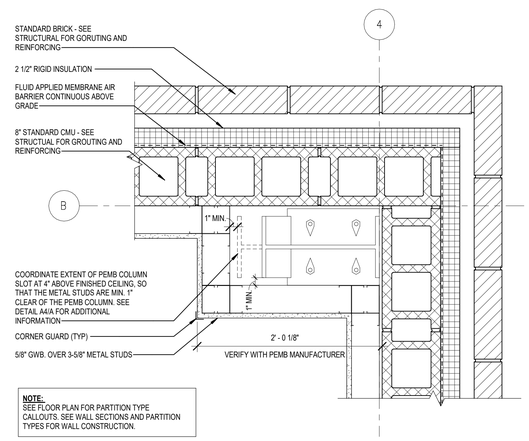
B5 CMU WALL TO PEMB CONNECTION
1 1/2" = 1'-0" (BASE BID AND ALT #2 ABOVE 4' - 0")



A2 PEMB COLUMN CONSTRAINT DETAIL
1/2" = 1'-0"



A3 TYPICAL COLUMN SURROUND
1 1/2" = 1'-0"



A5 TYPICAL COLUMN SURROUND
1 1/2" = 1'-0" (ALTERNATE # 2)

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATTIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

DETAILS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
	Designer

JOB NO.
2023352.01

A-502

9/11/2025 8:46:10 AM

DOOR NO.	ROOM NO.	ROOM NAME	DOOR TYPE	DOOR NO. OF PANELS	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MTL	DOOR GLAZING	FRAME TYPE	FRAME MTL	FRAME DEPTH	FIRE RATING	HW SET	HEAD	JAMB	SILL	COMMENTS
101-A	101	BUS GARAGE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	ISG	B	HM	3"		05	C1/A-602	B1/A-602	A1/A-602	
101-B	101	BUS GARAGE	A	--	14' - 0"	12' - 0"	2"	HM	-	-	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
101-C	101	BUS GARAGE	A	--	14' - 0"	12' - 0"	2"	HM	-	-	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
101-D	101	BUS GARAGE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	ISG	B	HM	3"		05	C1/A-602	B1/A-602	A1/A-602	
101-E	101	BUS GARAGE	A	--	14' - 0"	12' - 0"	2"	HM	-	B	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
101-F	101	BUS GARAGE	A	--	14' - 0"	12' - 0"	2"	HM	-	-	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
102-A	102	CLASSROOM	G	1	3' - 0"	7' - 0"	1 3/4"	HM	-	B	HM	5 3/4"		03	D1/A-602	E1/A-602	-	
102-B	102	CLASSROOM	G	1	3' - 0"	7' - 0"	1 3/4"	HM	-	B	HM	5 3/4"		03	D1/A-602	E1/A-602 D4/A-602	-	
106-A	106	OFFICE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"		03	D1/A-602	E1/A-602 D4/A-602	-	
106-B	106	OFFICE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"		03	D1/A-602	E1/A-602 D4/A-602	-	
107-A	107	STAFF RR	F	1	3' - 0"	7' - 0"	1 3/4"	HM	-	B	HM	5 3/4"		04	D1/A-602	E1/A-602	A3/A-602	
108-A	101	BUS GARAGE	W	1	3' - 0"	7' - 0"	1 3/4"	STL	-	-	-	2"		02	-	-	-	1
108-B	108	OPI TOOL STORAGE	W	1	3' - 0"	10' - 2"	1 3/4"	STL	-	-	-	2"		02	-	-	-	1
109-A	119	CAR GARAGE	W	1	3' - 0"	7' - 0"	1 3/4"	STL	-	-	-	2"		02	-	-	-	1
109-B	109	AUTO GARAGE TOOL STORAGE	W	1	3' - 0"	10' - 2"	1 3/4"	STL	-	-	-	2"		02	-	-	-	1
111-A	111	JC	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"		08	D1/A-602	E1/A-602	-	
113-A	113	UTILITY	F	1	3' - 0"	7' - 0"	1 3/4"	HM	-	B	HM	5 3/4"	60 MIN.	06	D1/A-602	E1/A-602	-	
113-B	113	UTILITY	F	2	3' - 0"	7' - 0"	1 3/4"	HM	-	C	HM	5 3/4"	60 MIN.	07	D1/A-602	E1/A-602	-	
114-A	114	AIR COMPRESSOR	F	1	3' - 0"	7' - 0"	1 3/4"	HM	-	B	HM	5 3/4"	60 MIN.	06	D1/A-602	E1/A-602	-	
116-A	105	RESTROOM	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"		08	D1/A-602	E1/A-602	-	
117-A	117	CHEMICAL STORAGE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"	60 MIN.	06	D1/A-602	E1/A-602	-	
118-A	118	CHEMICAL STORAGE	G	1	3' - 0"	7' - 0"	1 3/4"	HM	SG	B	HM	5 3/4"	60 MIN.	06	D1/A-602	E1/A-602	-	
119-A	119	CAR GARAGE	FG	2	3' - 0"	7' - 0"	1 3/4"	HM	ISG	D	AL	4 1/2"		09	C2/A-602	B2/A-602	A2/A-602	
119-B	119	CAR GARAGE	A	--	12' - 0"	12' - 0"	2"	HM	-	-	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
119-C	119	CAR GARAGE	A	--	12' - 0"	12' - 0"	2"	HM	-	-	HM	3"		01	C3/A-602	B3/A-602	A3/A-602	
119-D	119	CAR GARAGE	FG	2	3' - 0"	7' - 0"	1 3/4"	HM	ISG	D	AL	4 1/2"		09	C2/A-602	B2/A-602	A2/A-602	
202-A	202	IT	F	1	3' - 0"	7' - 0"	1 3/4"	HM	-	A	HM	5 7/8"		06	E2/A-602	D2/A-602	-	

DOOR SCHEDULE COMMENTS

1. WIRE MESH PARTITION GATE.

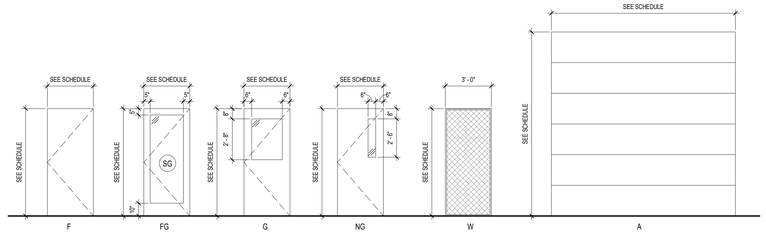
GENERAL NOTES

ABBREVIATIONS

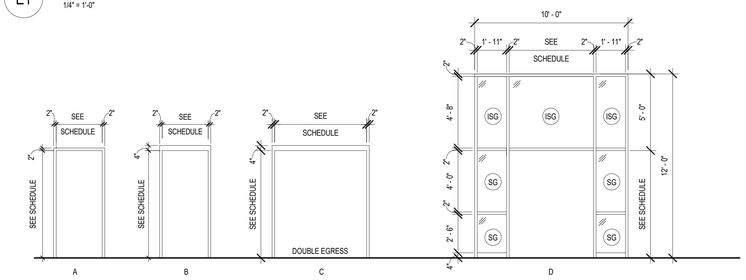
AL	ALUMINUM
HM	HOLLOW METAL
STL	STEEL
WD	SOLID CORE WOOD

GLAZING TYPES

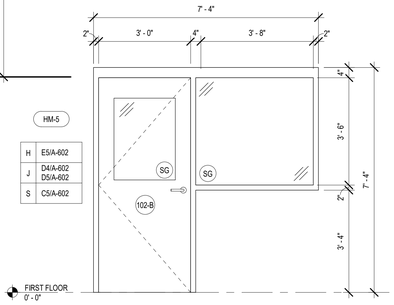
ISG	INSULATED SAFETY GLAZING
SG	SAFETY GLAZING
IG	INSULATED GLAZING



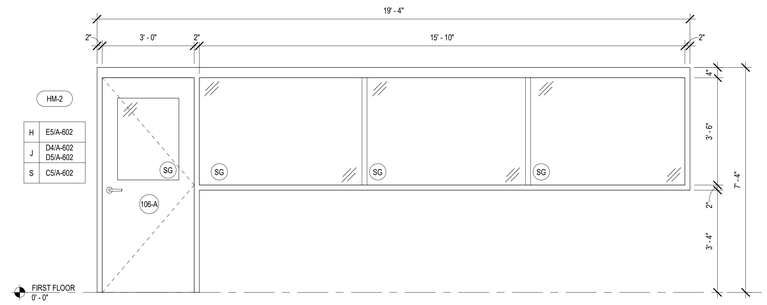
E1 DOOR TYPES
1/4" = 1'-0"



D1 FRAME TYPES
1/4" = 1'-0"



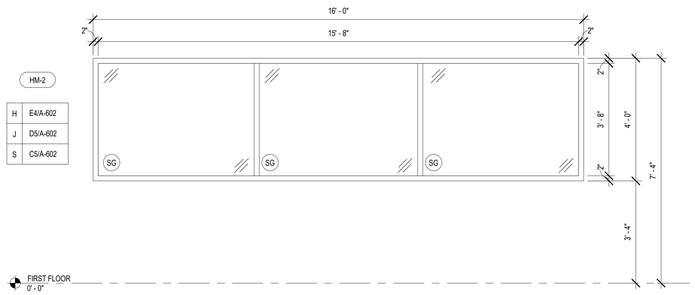
C3 HM-5
1/2" = 1'-0"



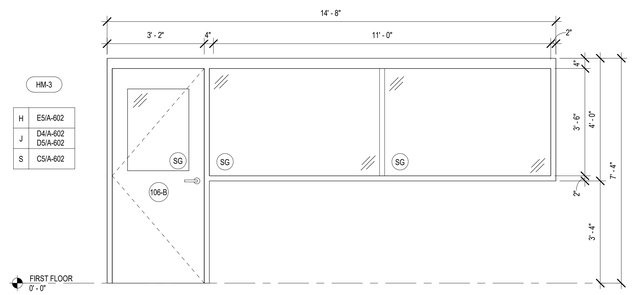
C4 HM-3
1/2" = 1'-0"



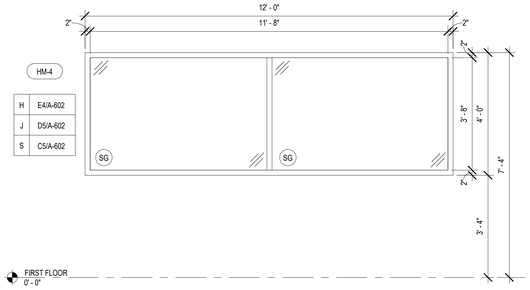
B1 SF-1
1/2" = 1'-0"



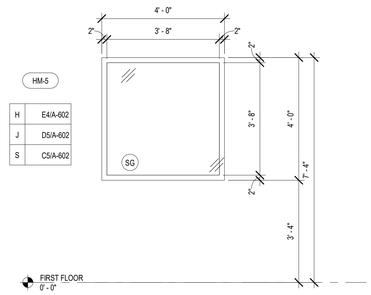
B3 HM-2
1/2" = 1'-0"



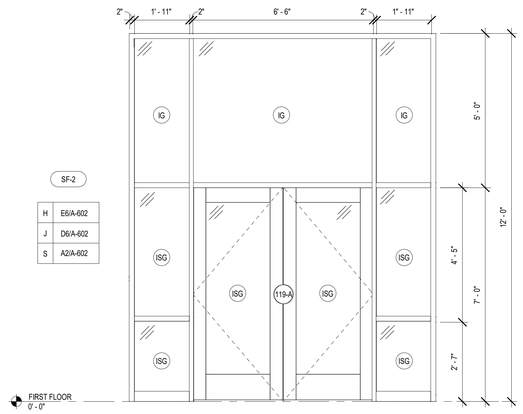
B4 HM-3
1/2" = 1'-0"



A1 HM-4
1/2" = 1'-0"



A2 HM-5
1/2" = 1'-0"



A4 SF-2
1/2" = 1'-0"

GPD GROUP
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520 South Main Street, Suite 2531
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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

DOOR SCHEDULE AND DETAILS

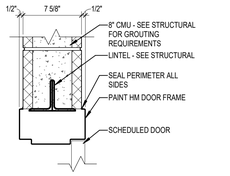
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PERMIT	08/25/2025
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CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KC

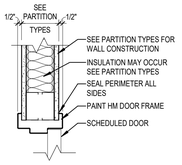
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2023352.01

A-601

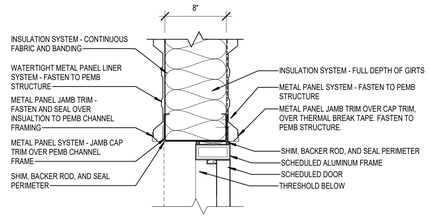
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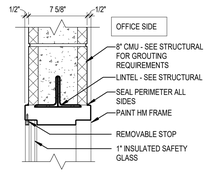
E1 HM HEAD DETAIL
1 1/2" = 1'-0"



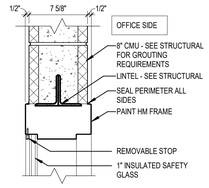
E2 HM HEAD DETAIL
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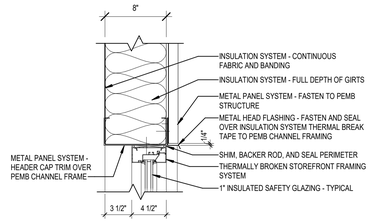
E3 AL JAMB DETAIL
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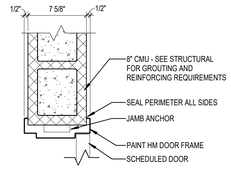
E4 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



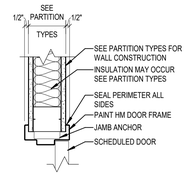
E5 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



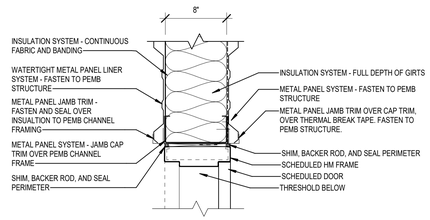
E6 WINDOW HEAD DETAIL
1 1/2" = 1'-0"



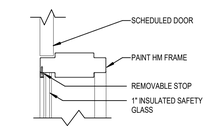
D1 HM JAMB DETAIL
1 1/2" = 1'-0"



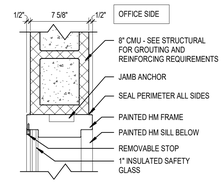
D2 HM JAMB DETAIL
1 1/2" = 1'-0"



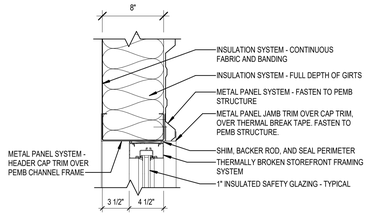
D3 HM JAMB DETAIL
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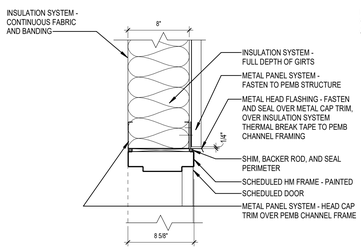
D4 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



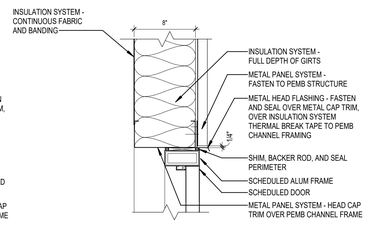
D5 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



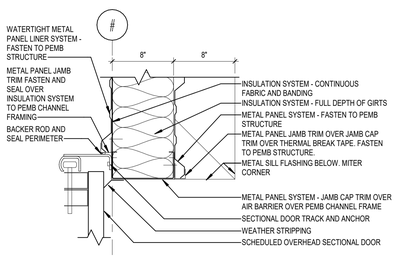
D6 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



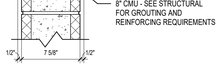
C1 HM HEAD DETAIL
1 1/2" = 1'-0" (BASE BID AND ALT #2 ABOVE 4' - 0")



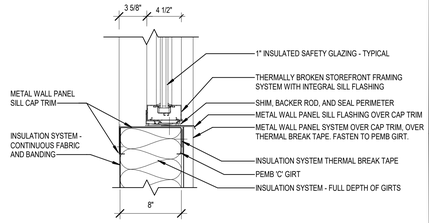
C2 ALUM HEAD DETAIL
1 1/2" = 1'-0" (BASE BID AND ALT #2 ABOVE 4' - 0")



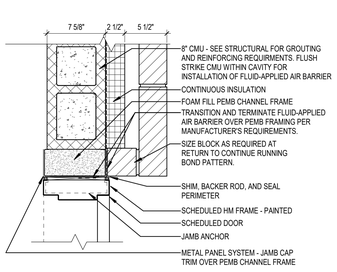
C3 SECTIONAL DOOR JAMB DETAIL
1 1/2" = 1'-0" (BASE BID AND ALT #2 ABOVE 4' - 0")



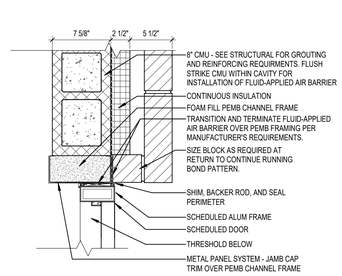
C5 WINDOW SILL DETAIL
1 1/2" = 1'-0"



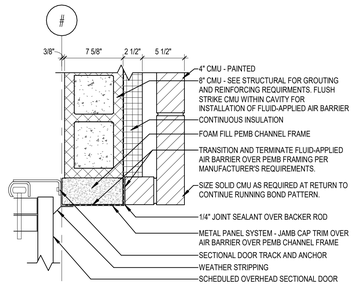
C6 WINDOW SILL DETAIL
1 1/2" = 1'-0"



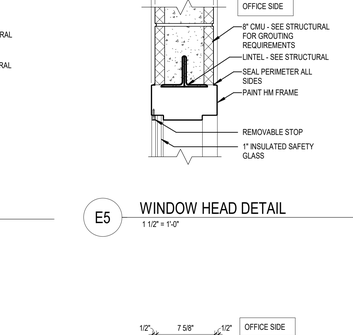
B1 HM JAMB DETAIL
1 1/2" = 1'-0" ALTERNATE #2 ONLY



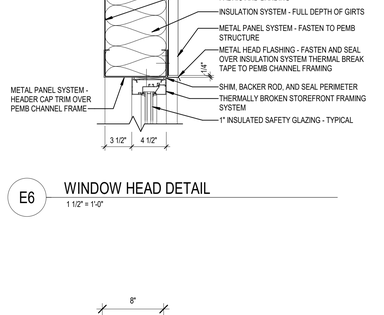
B2 ALUM JAMB DETAIL
1 1/2" = 1'-0" ALTERNATE #2 ONLY



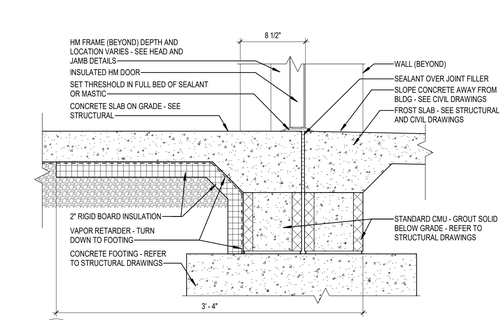
B3 SECTIONAL DOOR JAMB DETAIL
1 1/2" = 1'-0" ALTERNATE #2 ONLY



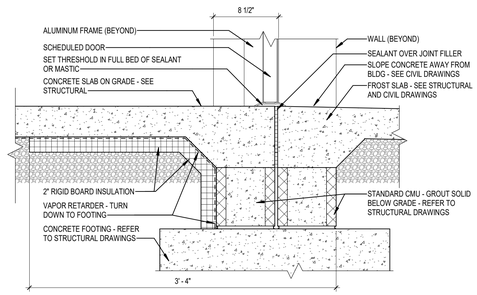
B5 LOUVER HEAD DETAIL
1 1/2" = 1'-0"



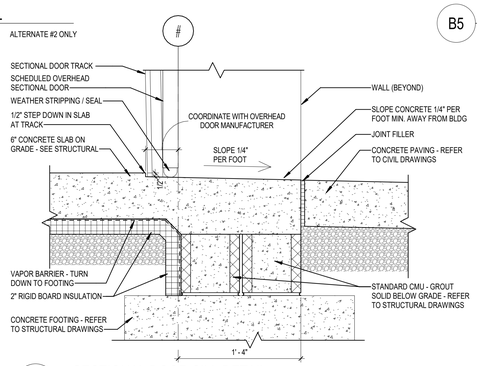
B6 LOUVER JAMB DETAIL
1 1/2" = 1'-0"



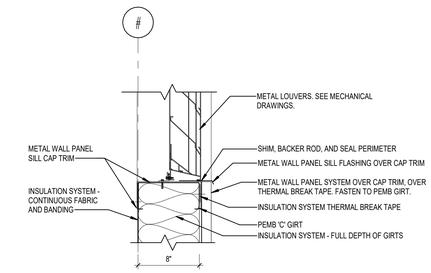
A1 HM SILL DETAIL (PANEL)
1 1/2" = 1'-0"



A2 ALUM DOOR SILL DETAIL
1 1/2" = 1'-0"



A3 SECTIONAL DOOR SILL DETAIL
1 1/2" = 1'-0"



A6 LOUVER SILL DETAIL
1 1/2" = 1'-0"

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1580 STATE ROUTE 56SW
LONDON, OH 43140

OPENING DETAILS

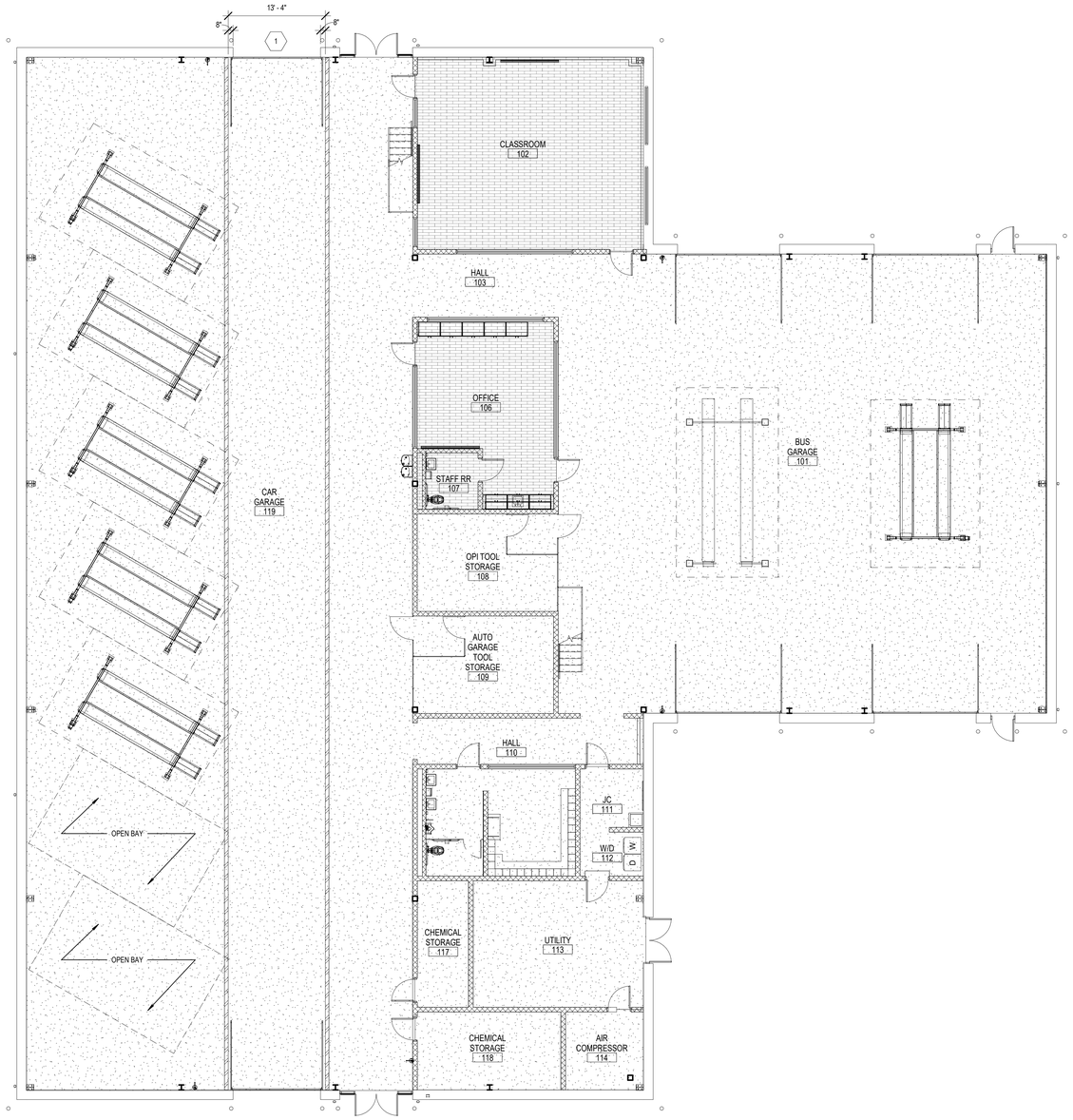
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
	Designer

JOB NO.
2023352.01

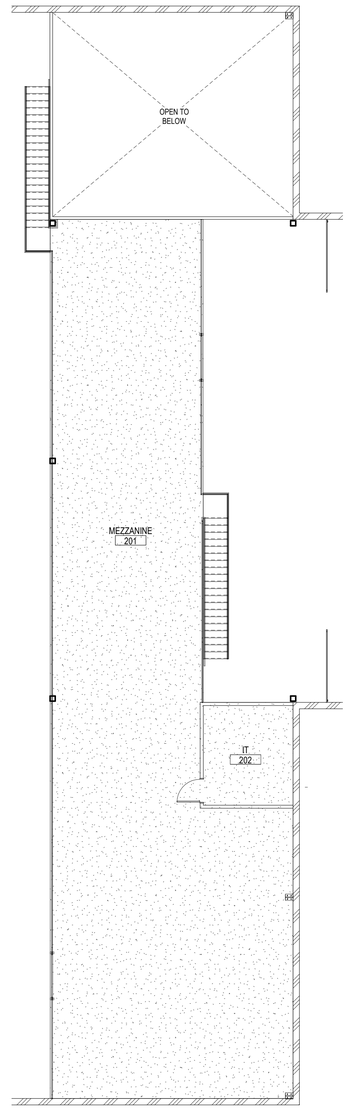
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A1 FINISH PLAN - FIRST FLOOR

1/8" = 1'-0"



A5 FINISH PLAN - MEZZANINE

1/8" = 1'-0"

GENERAL SHEET NOTES

A. PAINT ALL DOOR AND FRAME PAINT COLOR P-3.
B. SEE A-121 AND A-122 FOR PROPOSED CEILING FNIISHES FOR EACH SPACE.

SHEET NOTES (#)

1. ALIGN FACE OF STRIPE WITH INSIDE OF DOOR/FACE OF WALL OPENING. ALL FLOOR STRIPING TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION. DIMENSIONS ARE TYPICAL AT ALL BAYS UNLESS OTHERWISE NOTED.

FINISH LEGEND

CONCRETE FLOORING
SC-1

VIYNL TILE FLOORING
LVT-1

FLOOR STRIPING
TM-1 (P-4)

FINISH LEGEND ABBREVIATIONS

ACT-1 ACOUSTICAL CEILING TILE [48"X24"]
GWB-1 GYPSUM WALL BOARD [MOISE RESISTANT]
RB-1 RESILIENT BASE, 4" STANDARD
RB-2 RESILIENT BASE, 6" IN RESTROOM/LOCKER ROOM
SC-1 SEALED CONCRETE
P-1 PAINT, WALLS GENERAL
P-2 PAINT, EXPOSED STRUCTURE/CEILINGS
P-3 PAINT, DOOR AND FRAME
P-4 PAINT, PARKING STRIPE

FINISH LEGEND REMARKS

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	AREA	FLOOR FINISH	CEILING FINISH	BASE FINISH	WALL FINISH				COMMENTS
						NORTH	SOUTH	EAST	WEST	
101	BUS GARAGE	4223 SF	SC-1	P-2	--	P-1	P-1	P-1	P-1	
102	CLASSROOM	795 SF	LVT-1	ACT-1	RB-1	P-1	P-1	P-1	P-1	
103	HALL	168 SF	SC-1	P-2	--	P-1	P-1	P-1	P-1	
104	INMATE LOCKERS	178 SF	SC-1	GWB-1	RB-2	P-1	P-1	P-1	P-1	
105	RESTROOM	117 SF	SC-1	GWB-1	RB-2	P-1	P-1	P-1	P-1	
106	OFFICE	407 SF	LVT-1	ACT-1	RB-1	P-1	P-1	P-1	P-1	
107	STAFF RR	55 SF	LVT-1	GWB-1	RB-2	P-1	P-1	P-1	P-1	
108	OPI TOOL STORAGE	219 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
109	AUTO GARAGE TOOL STORAGE	219 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
110	HALL	195 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
111	JC	68 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
112	W/D	54 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
113	UTILITY	406 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
114	AIR COMPRESSOR	114 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
117	CHEMICAL STORAGE	122 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
118	CHEMICAL STORAGE	211 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
119	CAR GARAGE	7521 SF	SC-1	P-2	--	P-1	P-1	P-1	P-1	
201	MEZZANINE	2676 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	
202	IT	134 SF	SC-1	P-2	RB-1	P-1	P-1	P-1	P-1	

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1580 STATE ROUTE 56SW
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FINISH PLAN

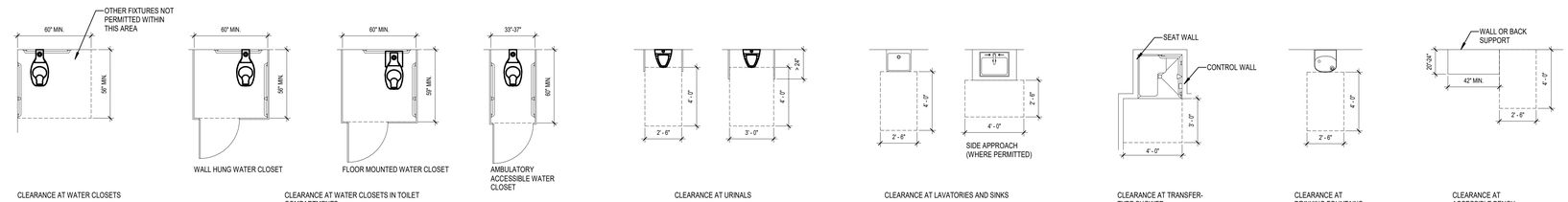
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PROJECT MANAGER	DESIGNER
RD	Designer

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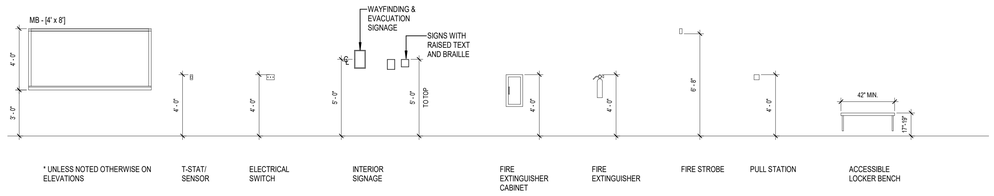
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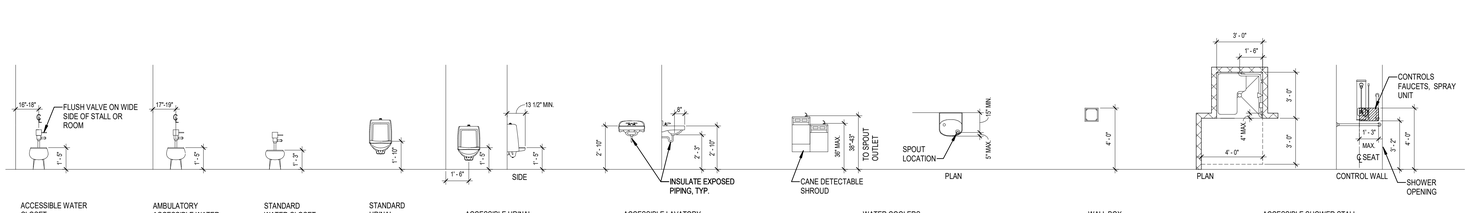
E1 ACCESSIBLE FIXTURE CLEARANCES

1/4" = 1'-0"



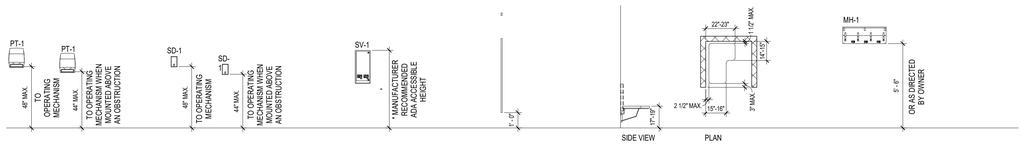
D1 TYPICAL MOUNTING HEIGHTS

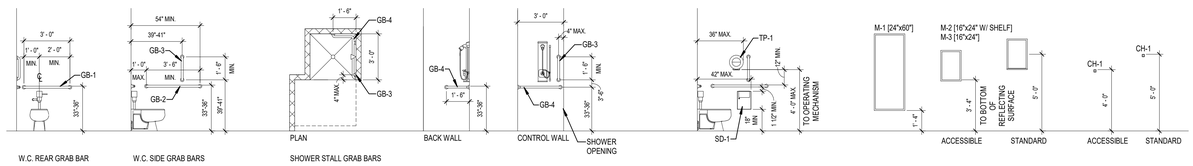
1/4" = 1'-0"



C1 TYPICAL PLUMBING FIXTURE MOUNTING HEIGHTS

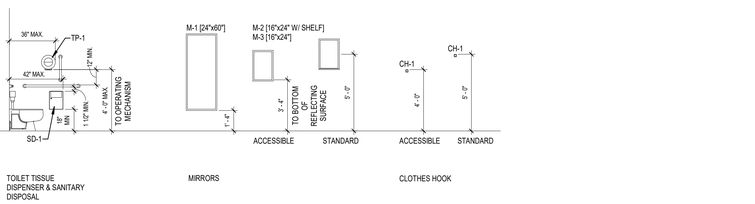
1/4" = 1'-0"





A1 TYPICAL TOILET ACCESSORY MOUNTING HEIGHT

1/4" = 1'-0"



10.28.00 TOILET ROOM ACCESSORIES

CH-1	COAT HOOK
GB-1	GRAB BAR, 36"
GB-2	GRAB BAR, 42"
GB-3	GRAB BAR, 16"
SD-1	SOAP DISPENSER
SQU-1	SANITARY UNIT DISPOSAL
TP-1	TOILET PAPER DISPENSER
M-1	MIRROR 18" X 36"

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TYPICAL MOUNTING HEIGHTS

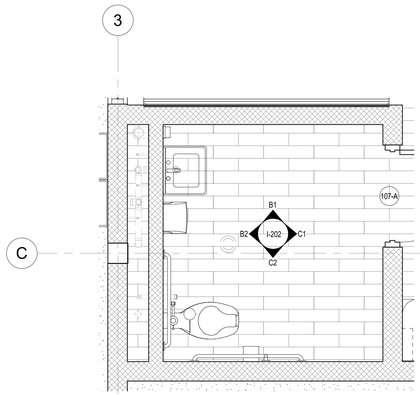
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PROJECT MANAGER	DESIGNER
RD	Designer

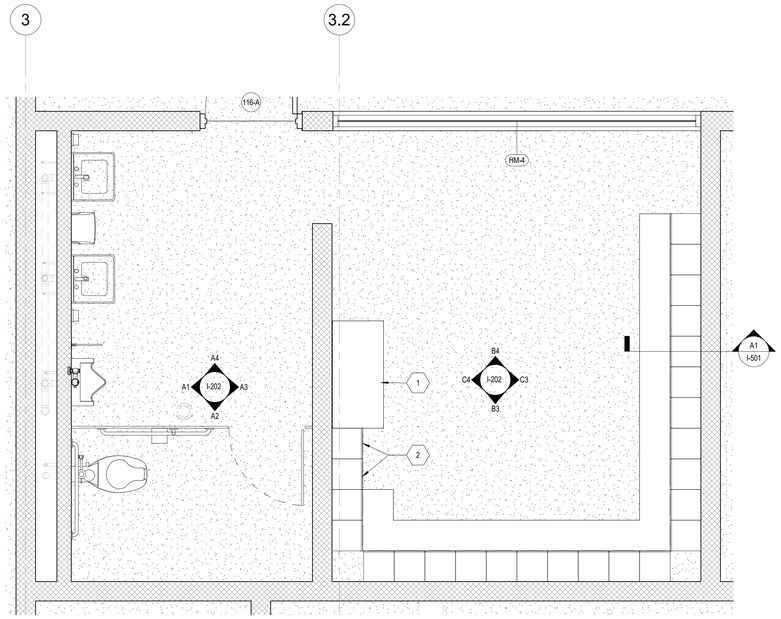
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I-201

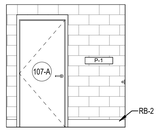
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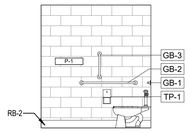
D2 STAFF RR - ENLARGED PLAN
1/2" = 1'-0"



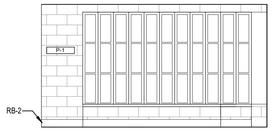
D4 INMATE LOCKER ROOM - ENLARGED PLAN
1/2" = 1'-0"



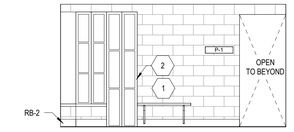
C1 107 - STAFF RR - EAST
1/4" = 1'-0"



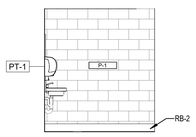
C2 107 - STAFF RR - SOUTH
1/4" = 1'-0"



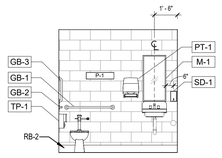
C3 115 - RESTROOM - EAST
1/4" = 1'-0"



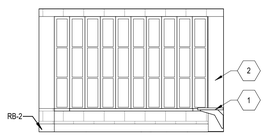
C4 115- RESTROOM - WEST
1/4" = 1'-0"



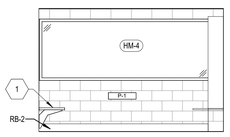
B1 107 - STAFF RR - NORTH
1/4" = 1'-0"



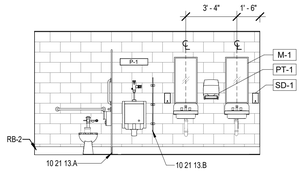
B2 107 - STAFF RR - WEST
1/4" = 1'-0"



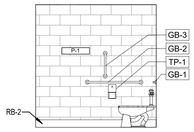
B3 115 - RESTROOM - SOUTH
1/4" = 1'-0"



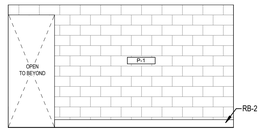
B4 115 - RESTROOM - NORTH
1/4" = 1'-0"



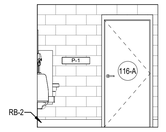
A1 116 - LOCKER ROOM - WEST
1/4" = 1'-0"



A2 116 - LOCKER ROOM - SOUTH
1/4" = 1'-0"



A3 116 - LOCKER ROOM - EAST
1/4" = 1'-0"



A4 116 - LOCKER ROOM - NORTH
1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET NOTES (#)

1. ADA BENCH.
2. ADA LOCKER.

REFERENCED KEYNOTES

10 21 13.A TOILET COMPARTMENT DOORS AND PANELS
10 21 13.B URINAL SCREEN

LEGEND

10 28 00 TOILET ROOM ACCESSORIES
GB-1 GRAB BAR, 36"
GB-2 GRAB BAR, 42"
GB-3 GRAB BAR, 18"
SD-1 SOAP DISPENSER
TP-1 TOILET PAPER DISPENSER
M-1 MIRROR 18" X 36"

FINISH LEGEND ABBREVIATIONS

ACT-1 ACOUSTICAL CEILING TILE [48"X24"]
GWB-1 GYPSUM WALL BOARD
LVT-1 LUXURY VYNL TILE
RB-1 RESILIENT BASE, 4" STANDARD
RB-2 RESILIENT BASE, 6" IN RESTROOM/LOCKER ROOM
SC-1 SEALED CONCRETE
P-1 PAINT, WALLS GENERAL
P-2 PAINT, EXPOSED STRUCTURE/CELINGS
P-3 PAINT, DOOR/FRAME

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

INTERIOR ELEVATIONS

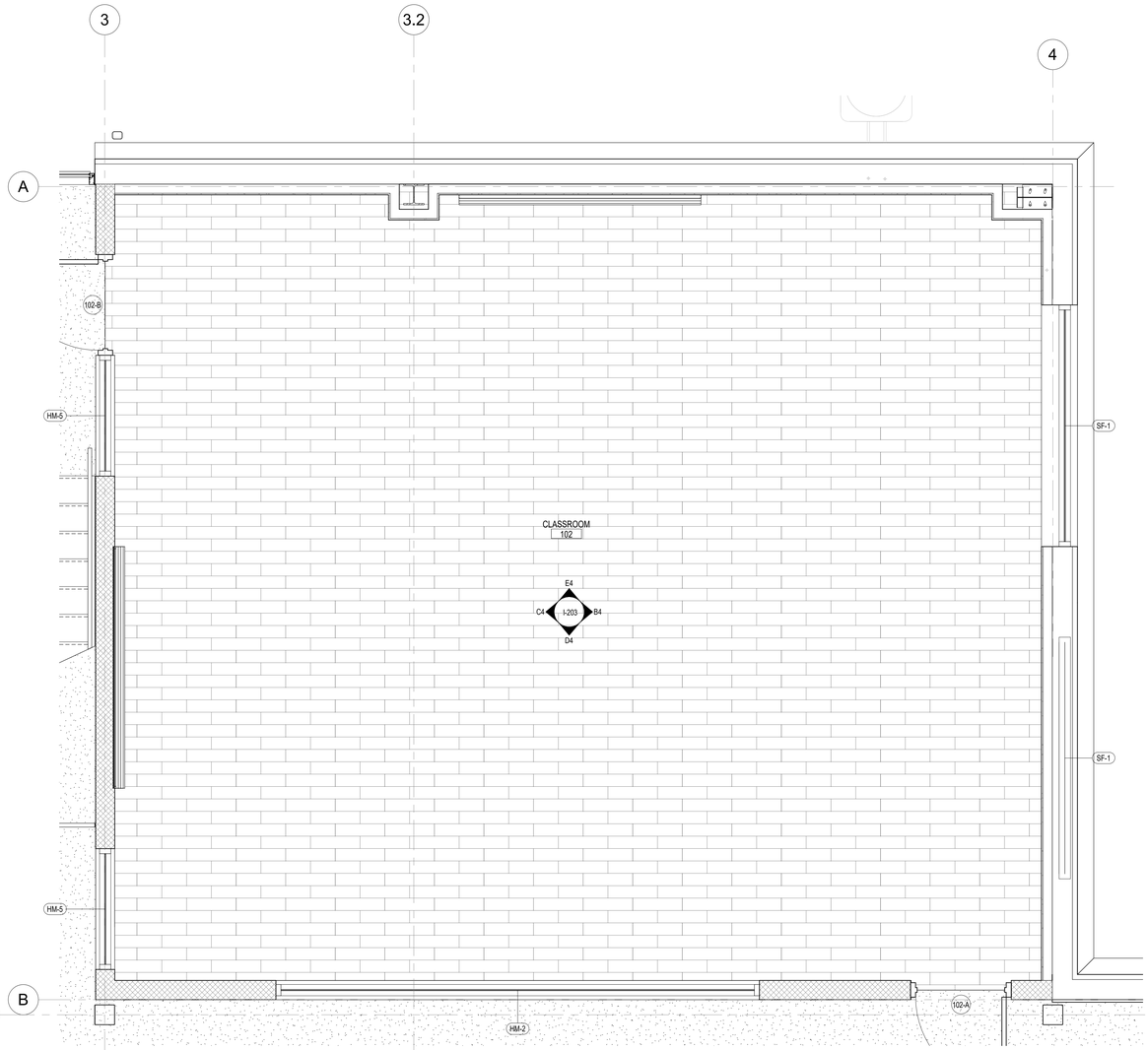
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

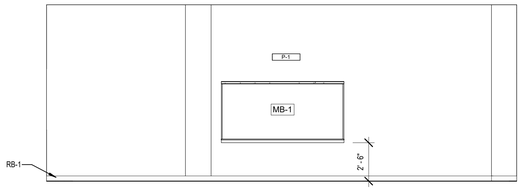
JOB NO.
2023352.01

I-202

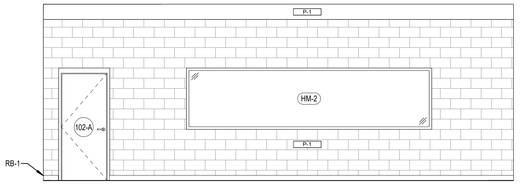
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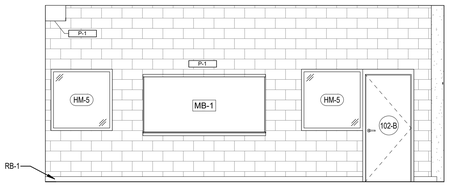
C1 CLASSROOM - ENLARGED PLAN
1/2" = 1'-0"



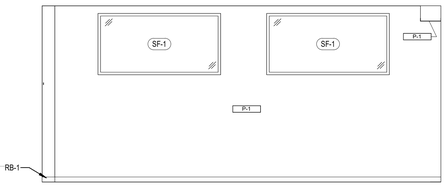
E4 102- CLASSROOM - NORTH
1/4" = 1'-0"



D4 102 - CLASSROOM - SOUTH
1/4" = 1'-0"



C4 102 - CLASSROOM - WEST
1/4" = 1'-0"



B4 102 - CLASSROOM- EAST
1/4" = 1'-0"

GENERAL SHEET NOTES

A. ANY EQUIPMENT/FURNITURE NOT CALLED OUT IS NOT IN CONTRACT AND PROVIDED BY THE OWNER AND SHOWN FOR REFERENCE ONLY FOR UTILITY COORDINATION.

SHEET NOTES (#)

REFERENCED KEYNOTES

LEGEND

FINISH LEGEND ABBREVIATIONS

ACT-1	ACOUSTICAL CEILING TILE [48"X24"]
GWB-1	GYPSUM WALL BOARD
LVT-1	LUXURY VYNL TILE
RB-1	RESILIENT BASE, 4" STANDARD
RB-2	RESILIENT BASE, 6" IN RESTROOM/LOCKER ROOM
SC-1	SEALED CONCRETE
P-1	PAINT, WALLS GENERAL
P-2	PAINT, EXPOSED STRUCTURE/CEILINGS
P-3	PAINT, DOOR/FRAME

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

INTERIOR ELEVATIONS

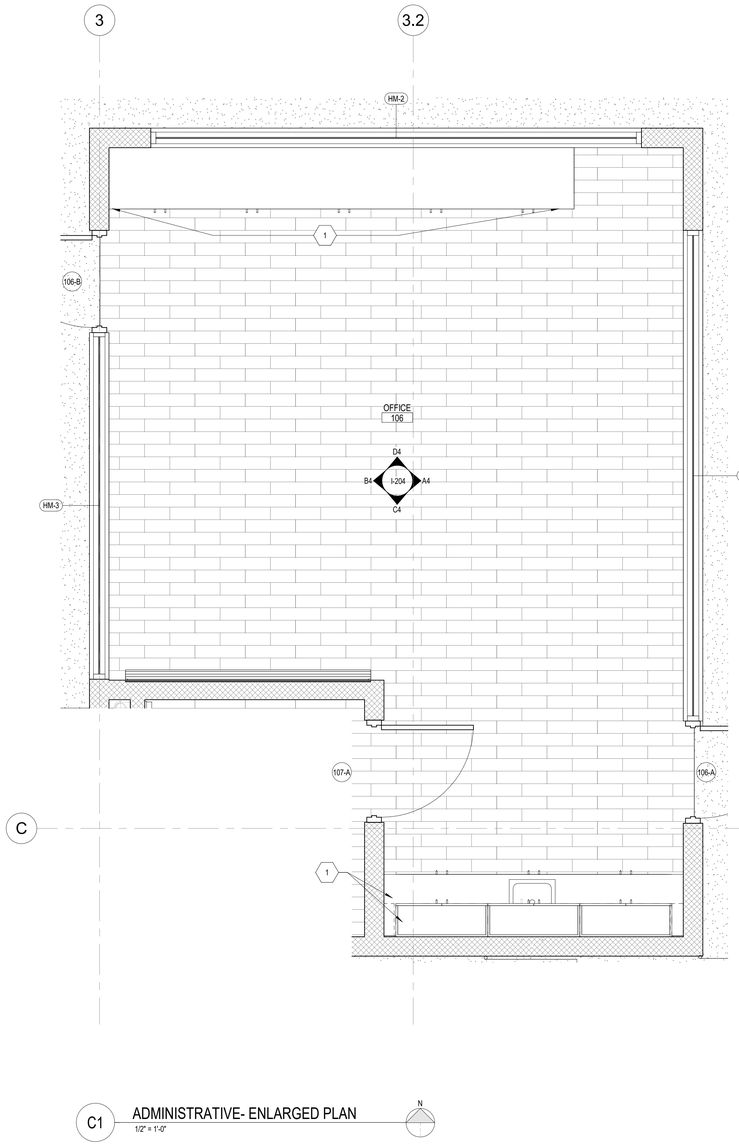
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

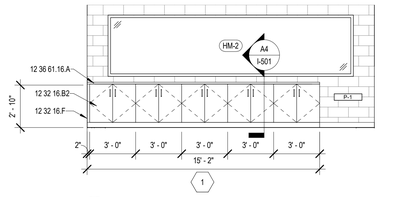
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I-203

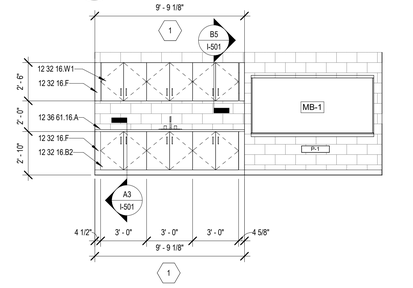
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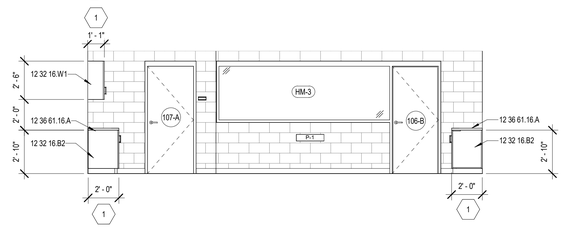
C1 ADMINISTRATIVE- ENLARGED PLAN
1/2" = 1'-0"



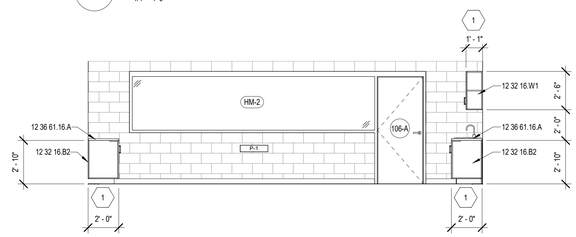
D4 105 - COPY/BREAK - NORTH
1/4" = 1'-0"



C4 105 - COPY/BREAK - SOUTH
1/4" = 1'-0"



B4 105 - COPY/BREAK - WEST
1/4" = 1'-0"



A4 105 - COPY/BREAK - EAST
1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET NOTES (#)

1. (ALTERNATE #5) CASEWORK.

REFERENCED KEYNOTES

12 32 16.B2	DOOR BASE
12 32 16.F	FILLER PANEL
12 32 16.W1	WALL CABINET
12 36 61.16 A	SOLID SURFACE MATERIAL COUNTERTOP

LEGEND

FINISH LEGEND ABBREVIATIONS

ACT-1	ACOUSTICAL CEILING TILE [48"X24"]
GWB-1	GYPSUM WALL BOARD
LVT-1	LUXURY VYNL TILE
RB-1	RESILIENT BASE, 4" STANDARD
RB-2	RESILIENT BASE, 6" IN RESTROOM/LOCKER ROOM
SC-1	SEALED CONCRETE
P-1	PAINT, WALLS GENERAL
P-2	PAINT, EXPOSED STRUCTURE/CEILINGS
P-3	PAINT, DOOR/FRAME

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

INTERIOR ELEVATIONS

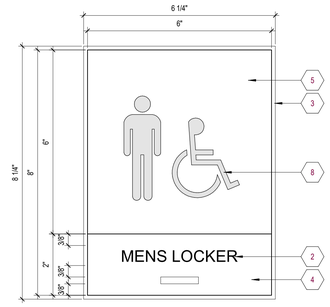
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PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

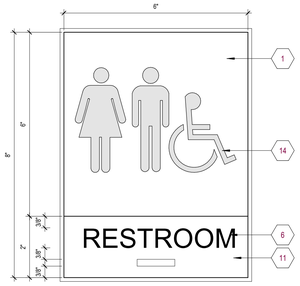
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I-204

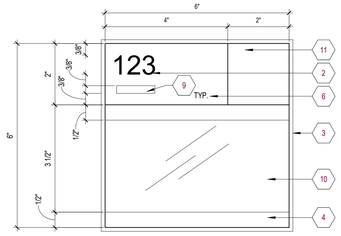
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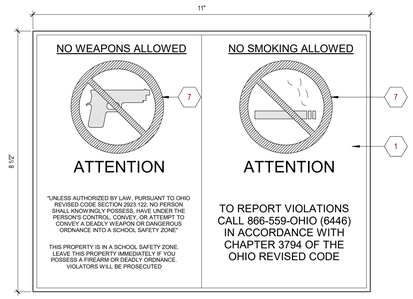
E1 SIGN TYPE 1 - RESTROOM
6" = 1'-0"



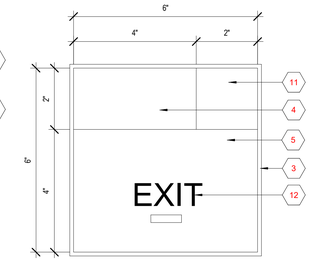
E2 SIGN TYPE 2 - RESTROOM ADA UNISEX
6" = 1'-0"



E3 SIGN TYPE 3 - ROOM # CHANGEABLE
6" = 1'-0"



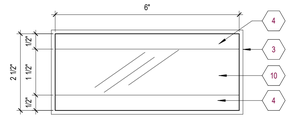
E4 SIGN TYPE 4 - SMOKING/WEAPONS
6" = 1'-0"



E5 SIGN TYPE 5 - EXIT
6" = 1'-0"



D4 SIGN TYPE 7 - TEXT ONLY
6" = 1'-0"



D5 SIGN TYPE 6 - NAME ONLY
6" = 1'-0"

GENERAL SHEET NOTES

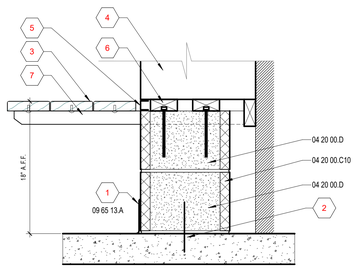
A. SEE FFE PLAN A-103 FOR PLACEMENT OF INTERIOR SIGNAGE.

SIGNAGE KEYNOTES

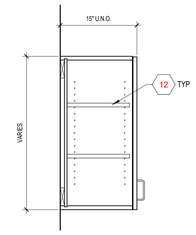
1. CLEAR VINYL LABEL WITH ADHESIVE ON FRONT; 3.0 MIL LAMINATE COATING; UV, CHEMICAL, ABRASION, AND MOISTURE RESISTANT; PRINTED WITH UV STABLE INK ON A CLEAR BACKGROUND. WHITE TEXT AND GRAPHICS WITH RED CIRCLE/CROSS BAR.
2. 5/8 INCH RAISED TEXT AND BRAILLE (COLOR 3).
3. ALUMINUM FRAME W/ EDGE METAL TRIM
4. COLOR 1.
5. COLOR 2.
6. COLOR 3.
7. RED CIRCLE WITH RED CROSS BAR.
8. RAISED PICTOGRAM (COLOR 3).
9. BRAILLE LETTERING
10. CLEAR WINDOW FOR REMOVABLE INSERT.
11. COLOR 4.
12. 1 INCH RAISED TEXT (COLOR 3).

CASEWORK KEYNOTES

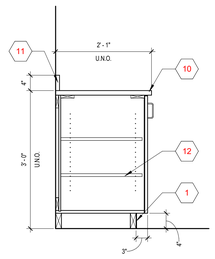
1. RESILIENT BASE.
2. #4 BARS @ 16" O.C. DOWELED INTO CONCRETE SLAB AND GROUTED SOLID
3. LOCKER BENCH.
4. LOCKER, SEE DRAWINGS FOR TYPE.
5. METAL CLOSURE PANEL, FINISH TO MATCH LOCKER.
6. PROVIDE BLOCKING AS REQUIRED.
7. STEEL BENCH SUPPORT, 1 3/4" X 1 3/4" X 1/4 STEEL ANGLE @ 32" O.C. MITER ENDS AND SMOOTH ALL SURFACES. PAINT TO MATCH WALL.
8. FIXED DRAWER FRONT PANEL.
9. DRAWER SIDES SHALL BE FULL HEIGHT.
10. COUNTERTOP.
11. BACKSPLASH.
12. ADJUSTABLE SHELF.



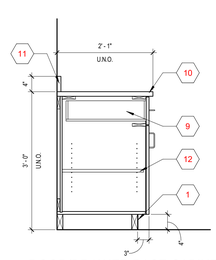
A1 LOCKER BASE DETAIL
1 1/2" = 1'-0"



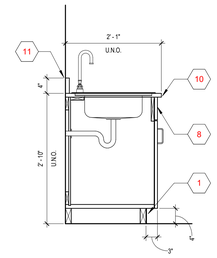
B5 WALL CABINET 12 32 16.W1
1" = 1'-0"
ALTERNATE #5



A3 DOOR BASE CABINET 12 32 16.B2
3/4" = 1'-0"
ALTERNATE #5



A4 DOOR/DRAWER BASE CABINET 12 32 16.B3
3/4" = 1'-0"
ALTERNATE #5



A5 SINK BASE 12 32 16.B1
3/4" = 1'-0"
ALTERNATE #5

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON, OH 43140

INTERIOR DETAILS

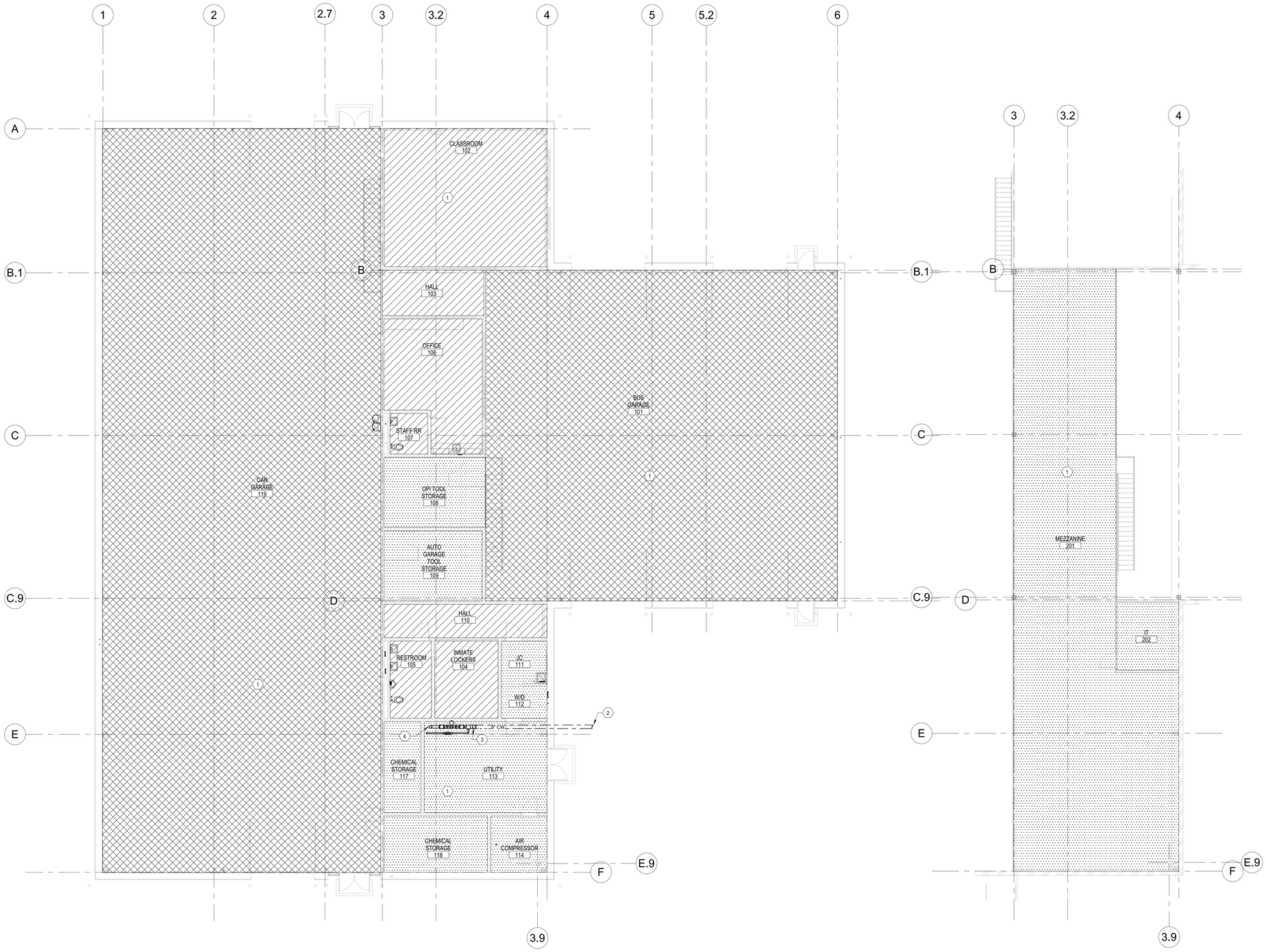
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	Designer

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2023352.01

I-501

9/11/2025 8:46:37 AM



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

2 FIRE PROTECTION - MEZZANINE FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE COVERAGE PER NFPA 13 REQUIREMENTS FOR AREAS DESIGNATED BY LEGEND SHADING.
2. PROVIDE DESIGN-BUILD SYSTEM TO MEET REQUIREMENTS SHOWN. PREPARE HYDRAULIC CALCULATIONS AND DESIGN DRAWINGS. OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS.
3. PROVIDE FIRE STOPPING AT ALL RATED WALL PENETRATIONS; REFER TO LIFE SAFETY PLANS FOR WALL RATINGS.
4. SPRINKLERS IN UNFINISHED AREAS SHALL HAVE ROUGH BRASS FINISH.
5. REFER TO ARCHITECTURAL PLANS, MECHANICAL PLANS, LIGHTING PLANS, ETC. FOR COORDINATION AND PLACEMENT OF SPRINKLER HEADS AND PIPING.
6. HYDRANT TEST DATA TO BE DETERMINE BY FIRE PROTECTION CONTRACTOR. TEST RESULTS SHALL INDICATE A STATIC PRESSURE AND RESIDUAL PRESSURE AT GIVEN GPM.
7. SEE PLUMBING DRAWINGS FOR DOMESTIC AND FIRE PRECTION WATER SERVICE ENTRY.
8. A FIRE WATCH SHALL BE PROVIDED DURING ALL HOT WORK ACTIVITIES DURING BOTH THE DEMOLITION AND CONSTRUCTION PHASES OF THE PROJECT FROM THE COMMENCEMENT OF THE WORK TO A MINIMUM 30 MINUTES AFTER THE CONCLUSION OF THE WORK UNLESS THERE ARE NO FIRE HAZARDS OR COMBUSTIBLES.
9. FIREWALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED FIRE STOP MATERIAL, U.L. LISTED FOR 2 HRS (WHERE REQUIRED) FIRE RATING, BY FIRE PROTECTION CONTRACTOR. CONTRACTOR SHALL SUBMIT ALL FIRE-STOPPING DETAILS AND MATERIAL FOR APPROVAL BY ENGINEER. REFER TO ARCHITECTURAL PLANS FOR WALL TYPES.

PLAN KEYNOTES

1. PROVIDE AND INSTALL AUTOMATIC SPRINKLER SYSTEM WITHIN THE HATCHED AREAS AS INDICATED.
2. EXTEND 8" FIRE PROTECTION SERVICE LINE 5' OUTSIDE BUILDING FOR EXTENSION BY SITE CONTRACTOR.
3. ROUTE 8" FIRE PROTECTION SERVICE LINE UP FROM BELOW GRADE. SEE PLUMBING DRAWING P-501 FOR WATER SERVICE ENTRANCE DETAIL
4. EXTEND FIRE LINE TO WET SYSTEM.

SYMBOL	DESCRIPTION
	WET PIPE SPRINKLER SYSTEM LIGHT HAZARD. CONCEALED HEADS.
	WET PIPE SPRINKLER SYSTEM ORDINARY HAZARD GROUP I, UPRIGHT HEADS.
	WET PIPE SPRINKLER SYSTEM ORDINARY HAZARD GROUP II, UPRIGHT HEADS.

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FIRE PROTECTION PLANS

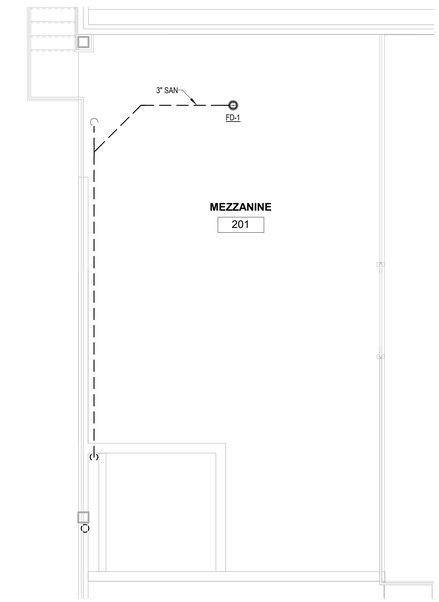
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RD	KAB

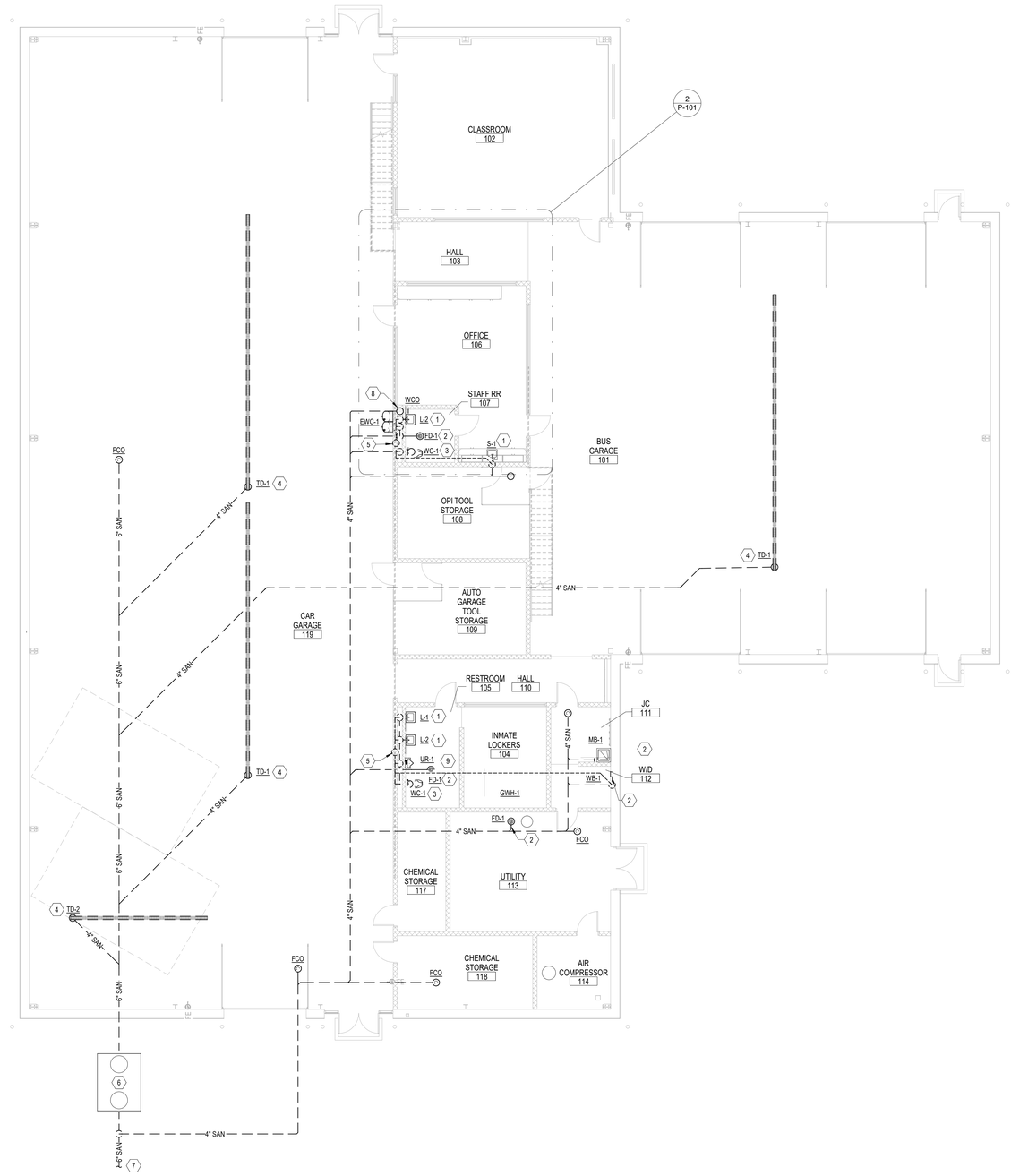
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2 PLUMBING - MEZZANINE PLAN - SANITARY
1/4" = 1'-0"



1 PLUMBING - FIRST FLOOR PLAN - SANITARY
1/8" = 1'-0"

GENERAL NOTES

1. THE GENERAL NOTES LISTED HERE APPLY TO ALL PLUMBING DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
2. SEE PLAN NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCURS BY HIS FAILURE TO LOCATE OR PRESERVE THE UNDERGROUND CONDITIONS.
5. IF DURING CONSTRUCTION OPERATIONS, THE PLUMBING CONTRACTOR ENCOUNTERS UTILITIES OTHER THAN THOSE LOCATIONS SHOW IN THE PLANS, HE SHALL IMMEDIATELY NOTIFY ENGINEER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
6. COORDINATE WITH GENERAL TRADES WORK, HVAC WORK, ELECTRICAL WORK AND OTHER WORK.
7. THE PLUMBING DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT AND PIPING UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED FOR CLEARANCES, ETC. PIPING AND PLUMBING EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFORMED WITHIN THE ACTUAL WORK. CONTRACTORS IN THEIR BIDS ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN PLUMBING WORK AS REQUIRED TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
8. THE PLUMBING CONTRACTOR IS TO COORDINATE ALL PIPING WITH OTHER TRADES PRIOR TO ROUTING PIPING AND SHALL MAKE OFFSETS AND ADJUST PIPE ROUTING AS REQUIRED TO HANDLE CONFLICTS IN THE FIELD. THE PLUMBING CONTRACTORS SHALL ALSO BE REQUIRED TO OFFSET VERTICAL SANITARY AND VENT LINES AROUND STRUCTURAL MEMBERS AS REQUIRED AND SHALL INCLUDE IN THEIR BID THE ASSOCIATED COST FOR ADDITIONAL FITTINGS, PIPING, AND MAN HOURS TO ACCOMMODATE CONFLICTS.
9. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF PLUMBING FIXTURES.
10. P.C. TO FURNISH WALL FLANGES AROUND ALL PIPING EXPOSED BELOW CEILING AND CASEWORK.
11. P.C. TO COORDINATE ALL COUNTERTOP SINKS WITH CASEWORK TO ENSURE PROPER INSTALLATION AND CLEARANCE REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION. COORDINATE ANY CHANGE IN SIZE OR CONFIGURATION WITH PROJECT ENGINEER AND ARCHITECT.
12. FINAL FLOOR DRAIN ELEVATIONS ARE TO BE SET BY THE PLUMBING CONTRACTOR. COORDINATE EXACT POSITIONING OF FLOOR DRAINS TO AVOID TRIPPING HAZARDS WITH ABOVE FLOOR DRAIN PIPING.
13. ACCESS PANELS ARE TO BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR IS TO COORDINATE LOCATION AND INSTALLATION OF VALVES, SHOCK STOPS, AND CLEANOUTS ABOVE ACCESS PANEL WITH G.C. TO MINIMIZE SIZE OF PANELS.
14. EQUIPMENT CONNECTION ARRANGEMENTS, FLANGES, UNIONS, VALVING, ETC. ARE NOT TYPICALLY SHOWN ON PLAN VIEWS. REFER TO DETAILS FOR REQUIREMENTS. INSTALL ALL VALVES AND OTHER ITEMS REQUIRING OR FACILITATING MAINTENANCE IN ACCESSIBLE LOCATIONS, AND SO AS TO NOT OBSTRUCT MAINTENANCE ON EQUIPMENT SERVED.
15. PROVIDE AND INSTALL SHUT-OFF ISOLATION VALVES AT EACH TIE-IN LOCATION.

SHEET KEYNOTES (#)

1 ROUTE 2" SAN UP IN WALL FROM BELOW GRADE AND CONNECT TO PLUMBING FIXTURE(S). ROUTE 1-1/2" VENT UP IN WALL TO CEILING SPACE AND ROUTE AS INDICATED.
2 ROUTE 3" SAN BELOW FINISHED FLOOR AND CONNECT TO PLUMBING FIXTURE(S).
3 ROUTE 4" SAN UP IN WALL FROM BELOW GRADE AND CONNECT TO PLUMBING FIXTURE. ROUTE 2" VENT UP IN WALL TO CEILING SPACE AND ROUTE AS INDICATED.
4 ROUTE 4" SAN FROM BELOW GRADE AND CONNECT TO TRENCH DRAIN.
5 NEW 3" VENT THROUGH ROOF. SEAL PENETRATION WEATHER TIGHT. VENT TERMINATION SHALL BE MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES. REFER TO VENT DETAIL ON PLUMBING DETAIL SHEET.
6 OIL SEPERATOR
7 CONNECT TO EXISTING 6" SANITARY WASTE PIPING BELOW GRADE. EXTEND 6" SANITARY WASTE PIPE INTO SPACE AS SHOWN. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, AND DIRECTION OF FLOW PRIOR TO BEGINNING WORK.
8 <varies>
9 ROUTE 2" SAN UP IN WALL FROM BELOW GRADE AND CONNECT TO PLUMBING FIXTURE. ROUTE 2" VENT UP IN WALL TO CEILING SPACE AND ROUTE AS INDICATED.

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PLUMBING - FIRST FLOOR PLAN - SANITARY

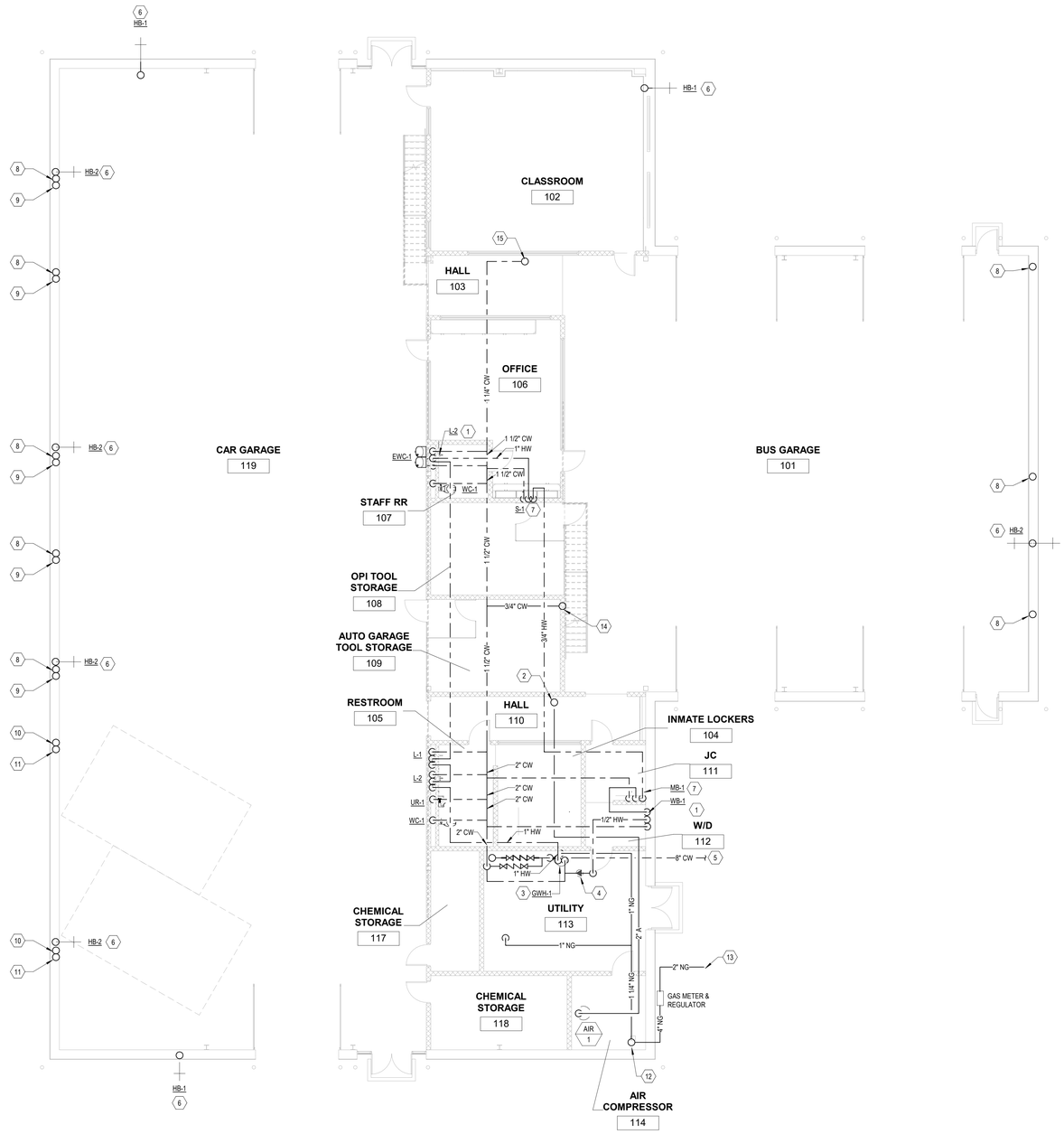
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PROJECT MANAGER	DESIGNER
RD	KAB

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1 PLUMBING - FIRST FLOOR PLAN - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PIPING
1/8" = 1'-0"

GENERAL NOTES

1. THE GENERAL NOTES LISTED HERE APPLY TO ALL PLUMBING DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
2. SEE PLAN NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
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SHEET KEYNOTES (#)

1 ROUTE 1/2" HW & CW DOWN IN WALL AND CONNECT TO PLUMBING FIXTURE(S).
2 2" COMPRESSED AIR PIPING UP THROUGH FLOOR TO MEZZANINE.
3 ROUTE 3/4" HW & CW DOWN TO WATER HEATER, GWH-1. REFER TO PLUMBING DETAILS FOR REQUIREMENTS.
4 1/2" HWR TO CIRCULATION PUMP, RHWP-1. REFER TO PLUMBING DETAILS FOR REQUIREMENTS.
5 CONNECT TO EXISTING WATER SERVICE LINE AND EXTEND 6" CW LINE INTO SPACE AS SHOWN. VERIFY EXACT LOCATION, SIZE AND DEPTH PRIOR TO BEGINNING WORK.
6 ROUTE 3/4" CW PIPING DOWN IN WALL AS INDICATED TO SERVE HOSE BIBB. SEAL WALL PENETRATIONS WEATHER TIGHT.
7 ROUTE 3/4" HW & CW DOWN IN WALL AND CONNECT TO PLUMBING FIXTURE(S).
8 1/2" COMPRESSED AIR PIPING TO REELCRAFT SPRING HOSE REEL MODEL 5600
9 1/2" COMPRESSED AIR TO LIFT. ROUTE PIPING TO LIFT AND CONNECT PER MANUFACTURER'S RECOMMENDATION.
10 1/2" COMPRESSED AIR PIPING VALVED AND CAPPED FOR FUTURE USE.
11 1/2" COMPRESSED AIR PIPING VALVED AND CAPPED FOR FUTURE EXTENSION TO FUTURE LIFT.
12 4" NATURAL GAS PIPING UP THROUGH FLOOR TO MEZZANINE.
13 2" NATURAL GAS PIPING SIZE FOR 2 PSI GAS PRESSURE. CONTRACTOR TO VERIFY GAS PRESSURE WITH NATURAL GAS UTILITY COMPANY PRIOR TO PIPE INSTALLATION. COORINATE PIPE LOCATION WITH SITE DRAWING.
14 3/4" DOMESTIC COLD WATER PIPING UP THROUGH FLOOR TO MEZZANINE.
15 1" DOMESTIC COLD WATER PIPING UP THROUGH FLOOR TO MEZZANINE.

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PLUMBING - FIRST FLOOR PLAN - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PIPING

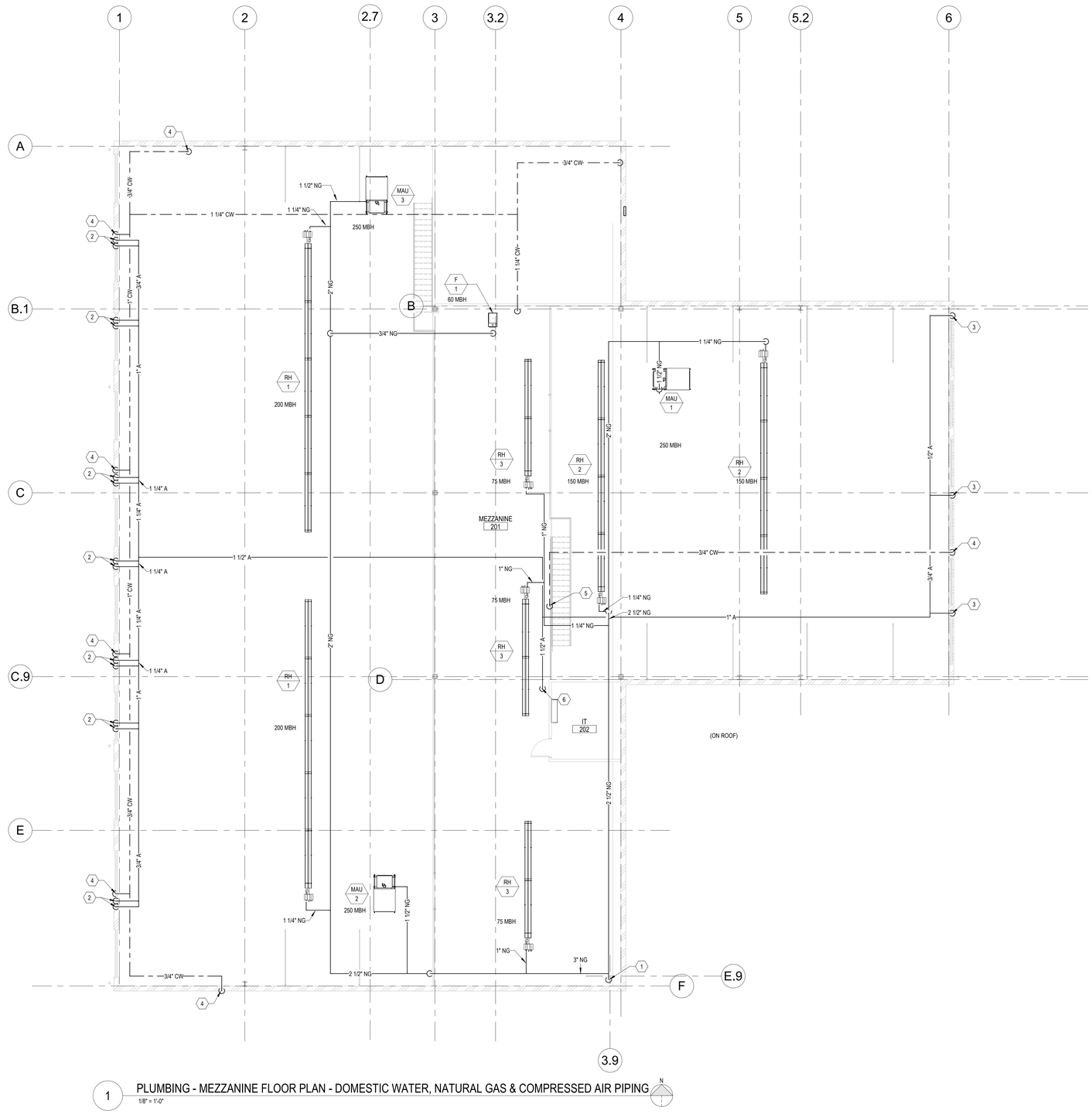
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RD	KAB

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1 PLUMBING - MEZZANINE FLOOR PLAN - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PIPING

1/8" = 1'-0"

N

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15. PROVIDE AND INSTALL SHUT-OFF ISOLATION VALVES AT EACH TIE-IN LOCATION.

PLAN KEYNOTES

1. 4" NATURAL GAS PIPING DOWN TO FIRST FLOOR.
2. TWO (2) 1/2" COMPRESSED AIR PIPING DOWN ALONG WALL.
3. 1/2" COMPRESSED AIR DOWN ALONG WALL
4. 3/4" DOMESTIC COLD WATER PIPING DOWN ALONG WALL
5. 3/4" DOMESTIC COLD WATER PIPING DOWN TO FIRST FLOOR.
6. 1-1/2" COMPRESSED AIR PIPING DOWN TO FIRST FLOOR.

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PLUMBING - MEZZANINE FLOOR PLAN - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PIPING

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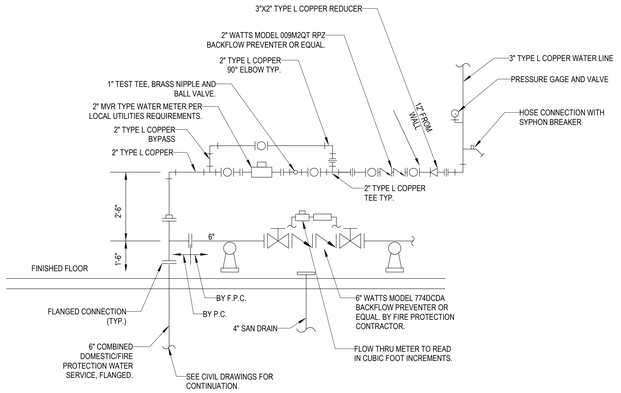
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RD	KAB

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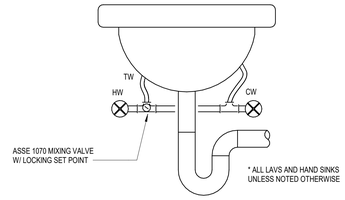
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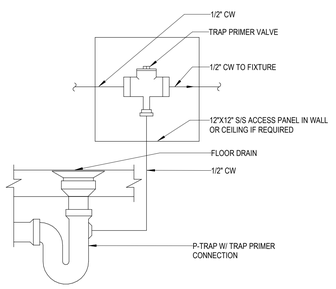
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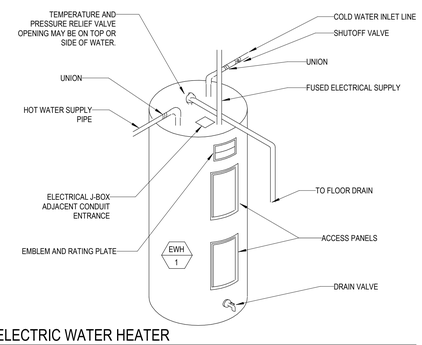
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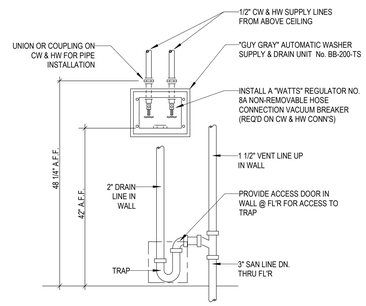
9 SINK TEMPERED WATER VALVE DETAIL
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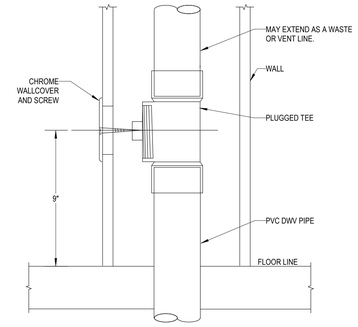
8 FLOOR DRAIN TRAP PRIMER DETAIL
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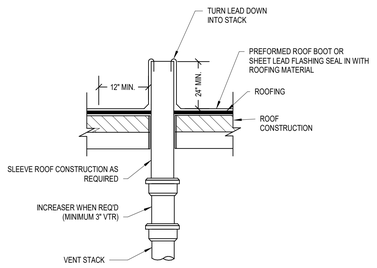
7 ELECTRIC WATER HEATER
N.T.S.



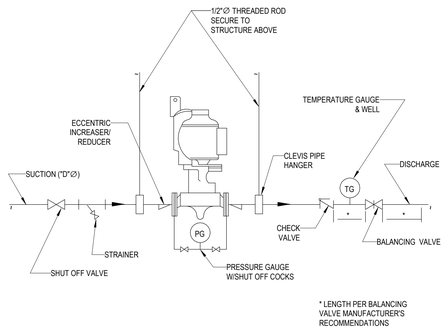
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N.T.S.



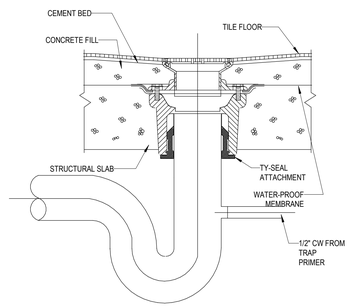
5 WALL CLEANOUT DETAIL
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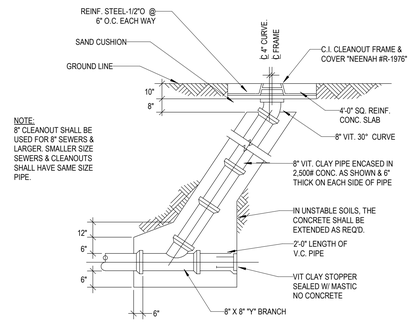
4 VENT THRU ROOF DETAIL
N.T.S.



3 INLINE CIRCULATION PUMP PIPING DETAIL
N.T.S.



2 FLOOR DRAIN
N.T.S.



1 CLEANOUT DETAIL
N.T.S.

REV.	DATE	DESCRIPTION

LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

PLUMBING DETAILS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

JOB NO.
2023352.01

P-501

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PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	CONNECTIONS			
				CW	HW	WASTE	VENT
WC-1	AMERICAN STANDARD	3049.001	"MADERA" ELONGATED BOWL FLOOR MOUNTED TYPE WATER CLOSET, 16.5" BOWL RIM HEIGHT, HIGH EFFICIENCY, LOW CONSUMPTION (1.28 GAL. PER FLUSH) VITREOUS CHINA TOILET, SIPHON JET ACTION, FLOOR MOUNTED BOWL W/ BACK OUTLET. BEMIS MODEL 1955CT OPEN FRONT SEAT. PROVIDE WITH SLOAN MODEL ROYAL 111-1.28-YO MANUALLY OPERATED DIAPHRAGM FLUSH VALVE. CONTRACTOR TO VERIFY MOUNTING TYPE IN FIELD PRIOR TO ORDERING.	1"	-	4"	2"
UR-1	AMERICAN STANDARD	6590.001	"WASHBROOK" LOW-CONSUMPTION (0.5 GALLONS PER FLUSH) URINAL, WASHOUT FLUSH ACTION. 3/4" TOP INLET SPUD, 2" OUTLET, PROVIDE WITH CONCEALED WALL CARRIER AND SLOAN MODEL ROYAL 186-0.5-SG FLSUH VALVE. MOUNT TO BE ADA COMPLIANT.	3/4"	-	2"	2"
L-1	AMERICAN STANDARD	355.012	"LUCERNE" WALL HUNG VITREOUS CHINA LAVATORY, 20"x18" WITH FRONT OVERFLOW,PROVIDE WITH "MONTERREY" CENTERSET LEVER HANDLES ADA COMPLIANT FAUCET MODEL 5502.140 WITH FLOW RESTRICTOR AND GRID DRAIN. MOUNT TO BE ADACOMPLIANT, PROVIDE WITH OFFSET DRAIN, INSULATION KIT, AND CONCEALED ARM CARRIER. PROVIDE CHROME FINISH ASSE 1070 LISTED UNDER-SINK THERMOSTATIC MIXING VALVE SET AT 105°F.	1/2"	1/2"	2"	1-1/2"
L-2	AMERICAN STANDARD	355.012	"LUCERNE" WALL HUNG VITREOUS CHINA LAVATORY, 20"x18" WITH FRONT OVERFLOW,PROVIDE WITH "MONTERREY" CENTERSET LEVER HANDLES ADA COMPLIANT FAUCET MODEL 5502.140 WITH FLOW RESTRICTOR AND GRID DRAIN. MOUNT TO BE ADACOMPLIANT, PROVIDE WITH OFFSET DRAIN, INSULATION KIT, AND CONCEALED ARM CARRIER. PROVIDE CHROME FINISH ASSE 1070 LISTED UNDER-SINK THERMOSTATIC MIXING VALVE SET AT 105°F. MOUNT AT ADA HEIGHT.	1/2"	1/2"	2"	1-1/2"
MB-1	FIAT	MSB-2424	24"x24" MOLDED-STONE MOP SERVICE BASIN. PROVIDE UNIT COMPLETE w/ 830AA SERVICE FAUCET w/ VACUUM BREAKER, MOP BRACKET, HOSE, AND HOSE BRACKET.	3/4"	3/4"	3"	1-1/2"
TD-1	JAY R. SMITH	9931-HFD DRAIN SYSTEM	40'-0" LONG 8" WIDE CHANNEL SLOPE POLYPROPYLEN TRENCH DRAIN SYSTEM WITH STEELFRAME SYSTEM FOR EXTRA HEAVY DUTY APPLICATIONS WITH 6" INTERNAL WIDTH. PROVIDE WITH TRAFFIC RATED DUCTILE IRON ADA GRATE WITH LOCKING DEVICES JAY R SMITH MODEL 9870-478-MADA.	-	-	4"	-
TD-2	JAY R. SMITH	9931-HFD DRAIN SYSTEM	20'-0" LONG 8" WIDE CHANNEL SLOPE POLYPROPYLEN TRENCH DRAIN SYSTEM WITH STEELFRAME SYSTEM FOR EXTRA HEAVY DUTY APPLICATIONS WITH 6" INTERNAL WIDTH. PROVIDE WITH TRAFFIC RATED DUCTILE IRON ADA GRATE WITH LOCKING DEVICES JAY R SMITH MODEL 9870-478-MADA.	-	-	4"	-
EWC-1	ELKAY	LZSTL8SFC	DUAL LEVEL ELECTRIC WATER COOLER, 8.0 GPH AT 50 DEG. F. WATER TEMP., 120/1/60, 5.0 F.L.A., 370 WATTS AND LIMITED 5 YEAR WARRANTY. ENTIRE INSTALLATION SHALL COMPLY WITH ALL CURRENT ADA REQUIREMENTS.	1/2"	1/2"	2"	1-1/2"
FD-1	JAY R. SMITH	2010	DUCO CAST IRON FLOOR DRAIN WITH FLASHING COLLAR AND NICKEL BRONZE ADJUSTABLE STRAINER HEAD. PROVIDE ALL FLOOR DRAINS WITH DEEP SEAL P-TRAPS.	-	-	AS SHOWN ON PLANS	-
TP-1	MIFAB	M-500	AUTOMATIC TRAP PRIMING VALVE, CAPABLE OF PRIMING A MAXIMUM OF 6 INDIVIDUAL FLOOR DRAIN ON A 3 PSIG PRESSURE DROP, INSTALL 12" A.F.F. UNLESS OTHERWISE NOTED, BRASS CONSTRUCTION, 1/2" INLET.	1/2"	-	-	-
FCO	JAY R. SMITH	4020	FLUSH W/ FLOOR CLEANOUT DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP. BRONZE CLOSURE PLUG, SPIGOT OUTLET, GASKET SEAL AND FLASHING COLLAR.	-	-	AS SHOWN ON PLANS	-
GWH-1	A.O. SMITH	HPCT-40L	ENERGY STAR RATED, NATURAL GAS FIRED WATER HEATER, 40 GALLON STORAGE TANK CAPACITY, 50 MBH INPUT, 62 GPH RECOVERY AT 90° TEMP. RISE; 120/1/60 ELECTRIC SUPPLY. GLASS LINED AND INSULATED TANK SHALL BE RATED FOR 125 PSI WORKING PRESSURE, WITH TEMP./PRES. RELIEF VALVE PER ASME, INCLUDE WALL VENT TERMINATION KIT, SHIPPING WEIGHT 216#.	3/4"	3/4"	-	-
ET-1	A.O. SMITH	PMI-7	GALLON EXPANSION TANK WITH 7.0 GALLON ACCEPTANCE VOLUME AT 60 PSIG. TANK TO BE CARBON STEEL CONSTRUCTION WITH A BUTYL RUBBER DIAPHRAM.	3/4"	-	-	-
RHWP-1	TACO	006E3	INLINE RECIRCULATION PUMP RATED AT 1.0 GPM AND 10 FT HEAD. PUMP TO HAVE A 44 W MOTOR POWERED AT 120/1 AND 125 PSI PRESSURE RATING.	-	1/2"	-	-
HB-1	JAY R. SMITH	5618	BRONZE NICKEL PLATED WALL HYDRANT W/ 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP AND "T" HANDLE KEY (ONE PER HYDRANT).	3/4"	-	-	-
HB-2	JAY R. SMITH	5609QT	BRONZE NICKEL PLATED FROSTPROOF HYDRANT W/ 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP AND "T" HANDLE KEY (ONE PER HYDRANT).	3/4"	-	-	-
WB-1	WATER-TITE	82064	8"x6" WASHING MACHINE OUTLET BOX WITH HOT AND COLD WATER QUARTER TURN BRASS VALVES AND DRAIN CONNECTION.	1/2"	1/2"	2"	1-1/2"
S-1	ELKAY	LRAD191860	#18 GAUGE, 19"x18" STAINLESS STEEL SELF RIM SINGLE BOWL SINK, SATIN FINISH, 6" DEEP ADA COMPLIANT COMPARTMENT. UNIT DRILLED FOR FAUCET AND DRAIN. PROVIDE COMPLETE WITH MOEN "CHATEAU" MODEL 67425 ADA COMPLIANT, ONE HANDLE FAUCET WITH AERATOR AND 1.5 GPM FLOW RESTRICTOR. PROVIDE SINK WITH STRAINERS FOR DRAINS. FIELD VERIFY CABINET SIZE TO DETERMINE SINK MODEL.	1/2"	1/2"	2"	1-1/2"
AIR-1	INGERSOL RAND	15TE15	120 GALLON AIR COMPRESSOR RATED AT 55.0 CFM AT 90 PSI WITH 15 HP COMPRESSOR MOTOR. 1" OUTLET. PROVIDE WITH INGERSOLL RAND AIR DRYER MODEL D1501M MODULAR HEAT LESS DESICCANT DRYER AND INLINE FILTER MODEL FA1501. POWER 480/3. AIR DRYER POWER 120/1	-	-	-	-

PLUMBING ABBREVIATIONS

SAN	SANITARY PIPING
GW	GREASE WASTE
V	SANITARY VENT PIPING
RD	ROOF DRAIN PIPING
OFD	OVERFLOW ROOF DRAIN PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
NG	NATURAL GAS PIPING
FP	FIRE PROTECTION PIPING
CA	COMPRESSED AIR PIPNG
CD	CONDENSATE DRAIN PIPING
WC	WATER CLOSET
UR	URINAL
LAV	LAVATORY
S	SINK
MS	MOP SINK
EWC	ELECTRIC WATER COOLER
FWFCO	FLUSH WITH FLOOR CLEANOUT
FWGCO	FLUSH WITH GROUND CLEANOUT
FWWCO	FLUSH WITH WALL CLEANOUT
CO	CLEANOUT
FD	FLOOR DRAIN
SH	SHOWER
VTR	VENT THRU ROOF
FS	FLOOR SINK
KEC	KITCHEN EQUIPMENT CONTRACTOR
BFP	BACKFLOW PREVENTER
HD	HUB DRAIN
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
FPSC	FROSTPROOF SILLCOCK
HB	HOSE BIBB
NG(LP)	LOW PRESSURE NATURAL GAS (7"...

PLUMBING SYMBOLS

SAN	UNDERGROUND SANITARY PIPING
SAN	ABOVE GROUND SANITARY PIPING
GW	UNDERGROUND GREASE WASTE PIPING
GW	ABOVE GROUND GREASE WASTE PIPING
V	SANITARY VENT PIPING
RD	UNDERGROUND ROOF DRAIN PIPING
RD	ABOVE GROUND ROOF DRAIN PIPING
OFD	UNDERGROUND OVERFLOW DRAIN PIPING
OFD	ABOVE GROUND OVERFLOW DRAIN PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
NG	NATURAL GAS PIPING
FP	FIRE PROTECTION PIPING
CA	COMPRESSED AIR PIPING
CD	CONDENSATE DRAIN PIPING
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	THREEWAY VALVE
	CHECK VALVE
	STRAINER
P	PRESSURE REDUCING VALVE
S	SOLENOID VALVE
	UNION
	ALIGNMENT GUIDE
	ANCHOR
	WALL HYDRANT
	HOSE BIBB
	RISER DOWN - ELBOW
	RISER UP - ELBOW

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PLUMBING SCHEDULES & LEGENDS

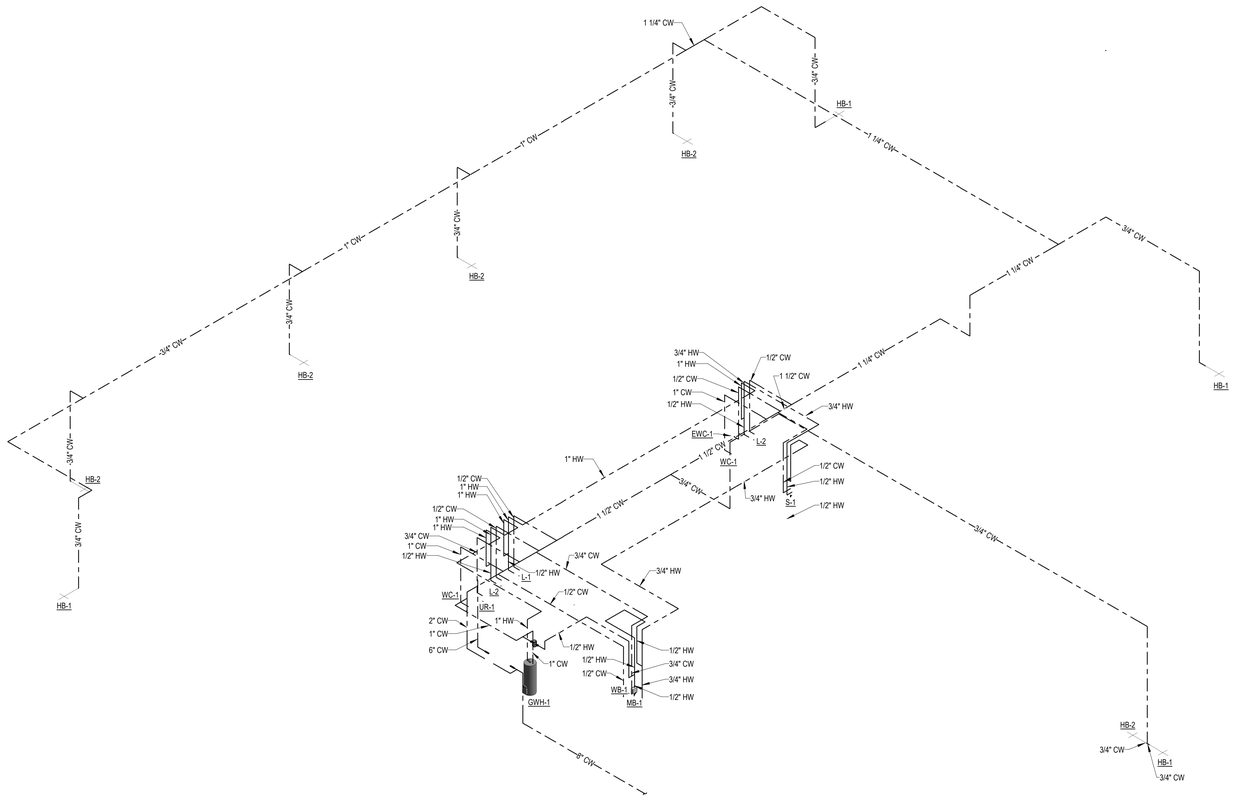
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PROJECT MANAGER	DESIGNER
RD	KAB

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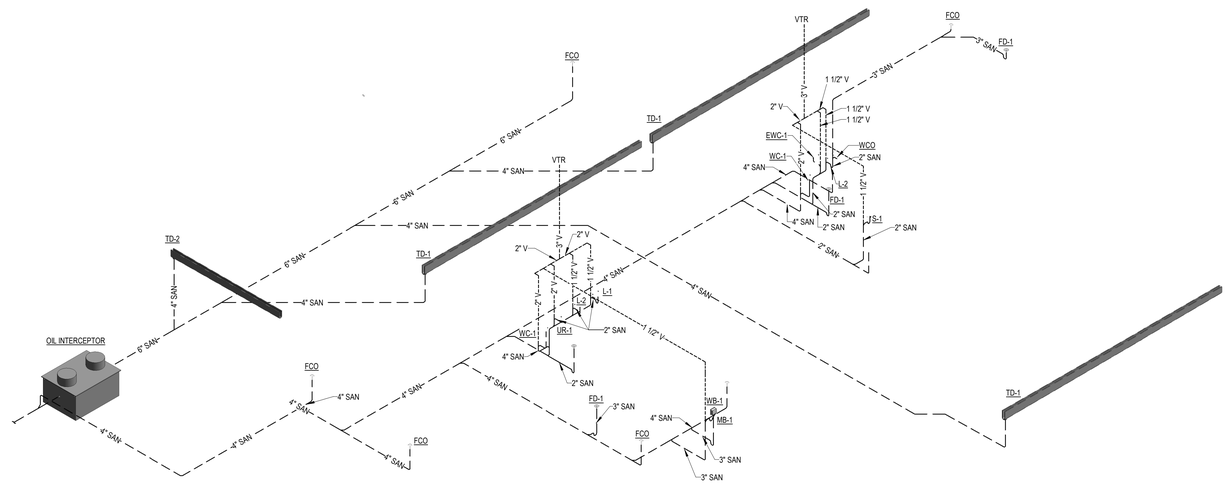
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2 PLUMBING WATER ISOMETRIC

N.T.S.



1 PLUMBING SANITARY ISOMETRIC

N.T.S.

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PLUMBING ISOMETRICS

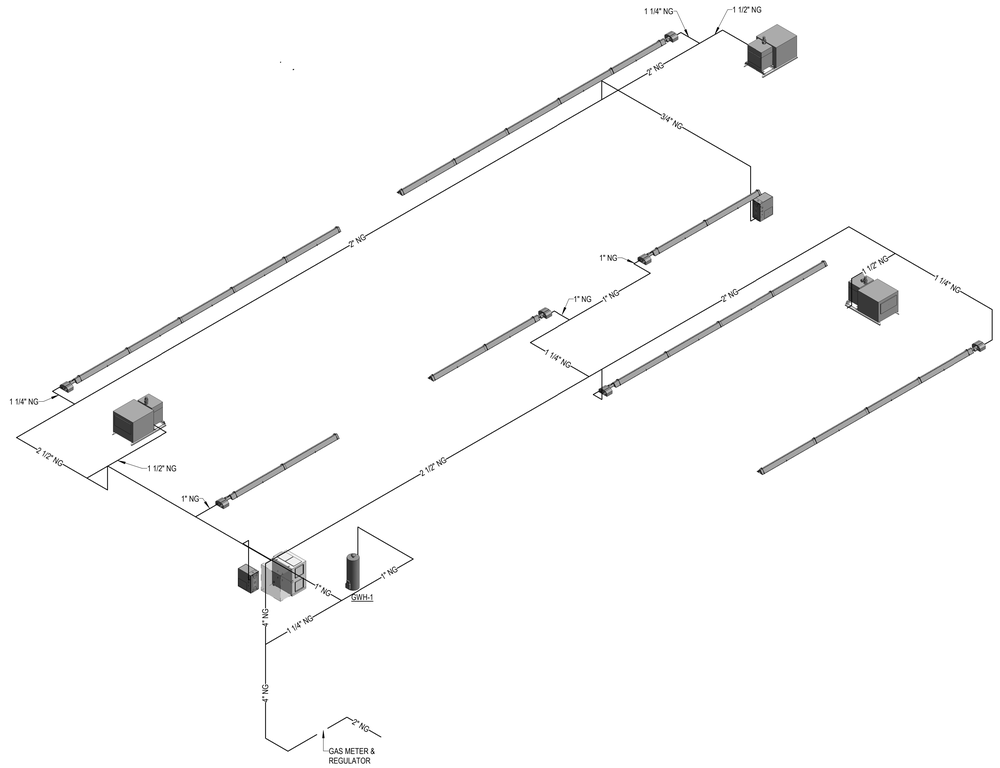
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

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P-701

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1 PLUMBING NATURAL GAS ISOMETRIC
N.T.S.

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PLUMBING NATURAL GAS ISOMETRICS

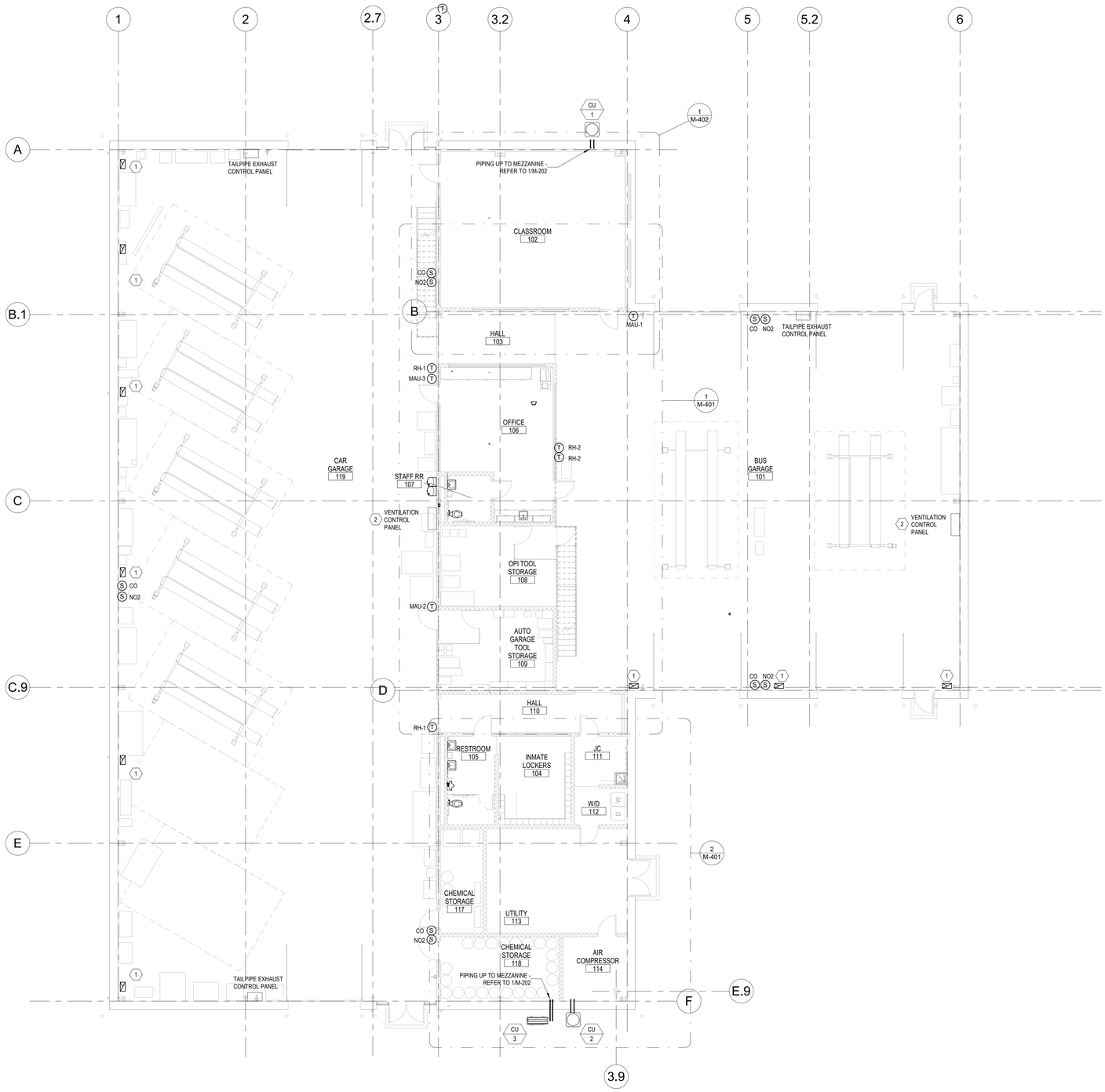
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
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RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

JOB NO.
2023352.01

P-702

9/11/2025 1:26:41 PM



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

GENERAL SHEET NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND GUARANTEE THE INSTALLATION FREE FROM DEFECT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF INSTALLATION.
3. CONTRACTOR SHALL UTILIZE SERVICES OF A PROFESSIONAL BALANCE CONTRACTOR TO PERFORM AIR AND WATER BALANCES ON ALL HVAC EQUIPMENT TO ACHIEVE THE AIRFLOWS INDICATED AND AS REQUIRED PER THE SPECIFICATIONS.
4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES ON PROJECT.
5. ALL NON-FIRE RATED PENETRATIONS OF THE BUILDING WALLS SHALL BE SEALED WITH QUALITY CAULK SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL POWER WIRING OF EQUIPMENT SHALL BE BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR, AND ALL FIRE PROTECTION SIGNAL OR CONTROL WIRING SHALL BE BY FIRE PROTECTION CONTRACTOR. ALL POWER AND CONTROL CONDUITS SHALL BE BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY STRUCTURAL ELEMENTS THAT MUST BE CUT AND/OR REMOVED FOR INSTALLATION OF DUCTWORK OR MECHANICAL EQUIPMENT WITH THE APPROVAL OF THE ENGINEER.
8. ALL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM LOCAL HEAT SOURCES, AIRFLOW FROM SUPPLY GRILLES, AND IN AN AREA WITH REPRESENTATIVE CONDITIONS OF THE ROOM.
9. CONTRACTOR SHALL INSTALL ALL LOOSE-SHIPPED COMPONENTS FOR THE HVAC EQUIPMENT.
10. COORDINATE DUCTWORK AND GRILLE INSTALLATION WITH LIGHTING LAYOUT, STRUCTURAL ELEMENTS, AND ELECTRICAL CONDUITS.
11. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS. WHERE WORK IS SHOWN ON THE DRAWING AND NOT SPECIFIED OR SPECIFIED AND NOT SHOWN ON DRAWING, THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT CONDITION SHALL APPLY.
12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

SHEET KEYNOTES

1. 18"x10" EXHAUST AIR DUCTWORK DOWN ALONG WALL. TERMINATE 24" ABOVE FINISHED FLOOR. PROVIDE BALANCE DAMPER IN THE VERTICAL DROP. SEE DETAIL ON M-501
2. PROVIDE AUTOMATIC VENTILATION SYSTEM CONSISTING OF "AMC-1DBv" CONTROLLER AND COMBINATION "UTX-M-400" SERIES MODEL NO. AMC-UTX-M-VAC01-N-R-0400 DS SENSORS FOR DETECTION OF CARBON MONOXIDE AND NITROGEN DIOXIDE AS LOCATED ON PLAN. SEE PLAN FOR LOCATION OF SENSORS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE AUDIBLE ALARM. CONTROLLER POWER REQUIREMENT 120/1/60 0.5 AMPS.

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MECHANICAL - FIRST FLOOR PLAN

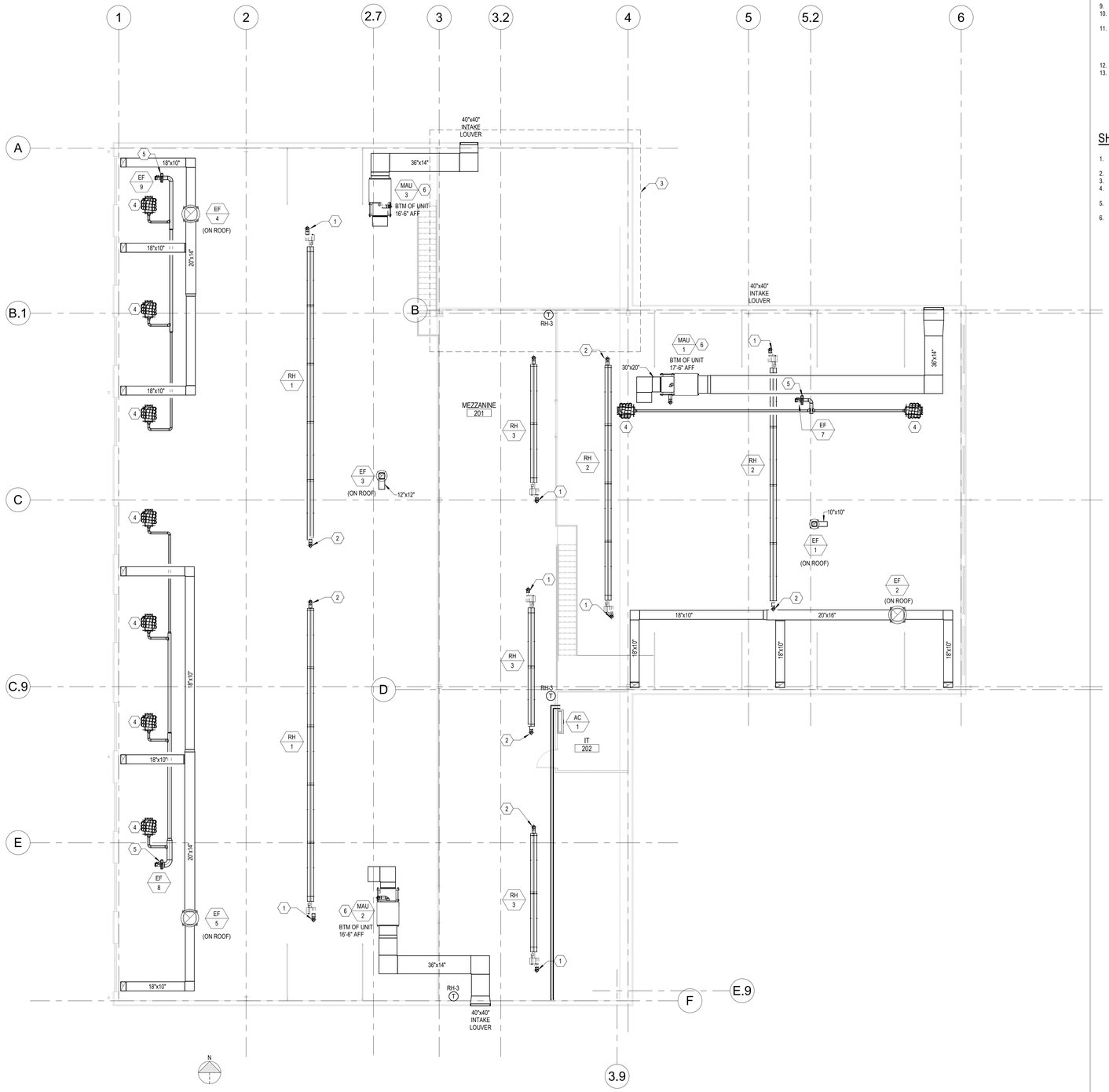
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PROJECT MANAGER	DESIGNER
RD	KAB

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M-101

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1 MECHANICAL - MEZZANINE FLOOR PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND GUARANTEE THE INSTALLATION FREE FROM DEFECT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF INSTALLATION.
3. CONTRACTOR SHALL UTILIZE SERVICES OF A PROFESSIONAL BALANCE CONTRACTOR TO PERFORM AIR AND WATER BALANCES ON ALL HVAC EQUIPMENT TO ACHIEVE THE AIRFLOWS INDICATED AND AS REQUIRED PER THE SPECIFICATIONS.
4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES ON PROJECT.
5. ALL NON-FIRE RATED PENETRATIONS OF THE BUILDING WALLS SHALL BE SEALED WITH QUALITY CAULK SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL POWER WIRING OF EQUIPMENT SHALL BE BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR, AND ALL FIRE PROTECTION SIGNAL OR CONTROL WIRING SHALL BE BY FIRE PROTECTION CONTRACTOR. ALL POWER AND CONTROL CONDUITS SHALL BE BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY STRUCTURAL ELEMENTS THAT MUST BE CUT AND/OR REMOVED FOR INSTALLATION OF DUCTWORK OR MECHANICAL EQUIPMENT WITH THE APPROVAL OF THE ENGINEER.
8. ALL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM LOCAL HEAT SOURCES, AIRFLOW FROM SUPPLY GRILLES, AND IN AN AREA WITH REPRESENTATIVE CONDITIONS OF THE ROOM.
9. CONTRACTOR SHALL INSTALL ALL LOOSE-SHIPPED COMPONENTS FOR THE HVAC EQUIPMENT.
10. COORDINATE DUCTWORK AND GRILLE INSTALLATION WITH LIGHTING LAYOUT, STRUCTURAL ELEMENTS, AND ELECTRICAL CONDUITS.
11. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS. WHERE WORK IS SHOWN ON THE DRAWING AND NOT SPECIFIED OR SPECIFIED AND NOT SHOWN ON DRAWING, THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT CONDITION SHALL APPLY.
12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

SHEET KEYNOTES

1. ROUTE 6" COMBUSTION AIR DUCTWORK UP THROUGH ROOF. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
2. ROUTE 6" FLUE UP THOUGH ROOF. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
3. SEE M-402 FOR WORK IN THIS AREA.
4. EXTEND 4" TAILPIPE EXHAUST AIR DUCTWORK TO HOSE REEL. HOSE REEL TO BE A FUMA-A-VENT 4" DIAMETER SPRING OPERATED HOSE REEL WITH 44 FT HOSE.
5. TAILPIPE EXHAUST FAN DUCT UP THROUGH ROOF. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
6. HANG MAKE-UP AIR UNIT FROM STRUCTURE. UNIT SHALL HAVE A MIXING BOX FOR 100% OUTSIDE AIR OR 100% RETURN AIR. PROVIDE BIRD SCREEN OVER RETURN AIR OPENING. ROUTE 6" COMBUSTION AIR AND 6" FLUE THROUGH ROOF AND TERMINATE PER MANUFACTURER'S RECOMMENATIONS.

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MECHANICAL - MEZZANINE FLOOR PLAN

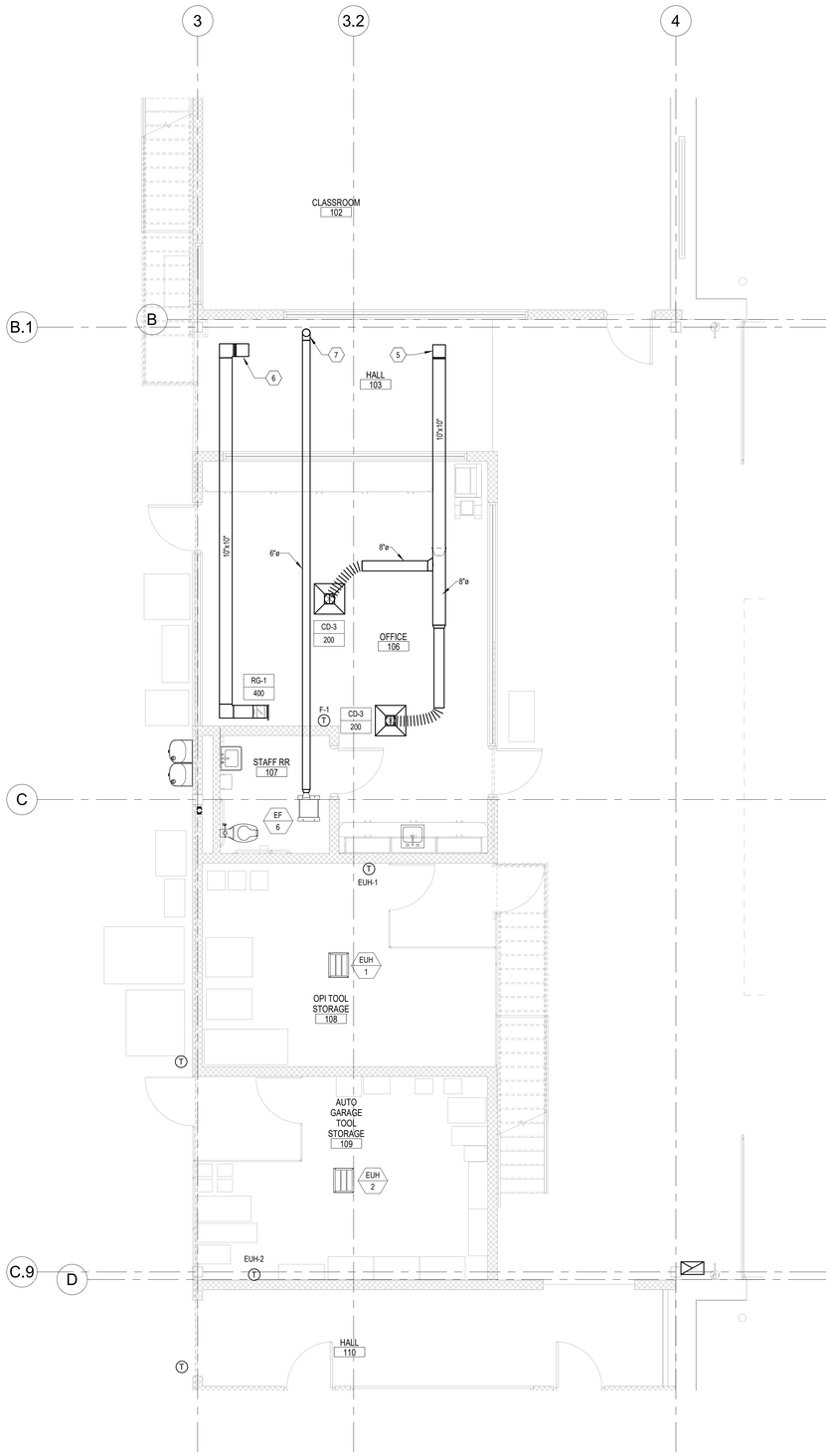
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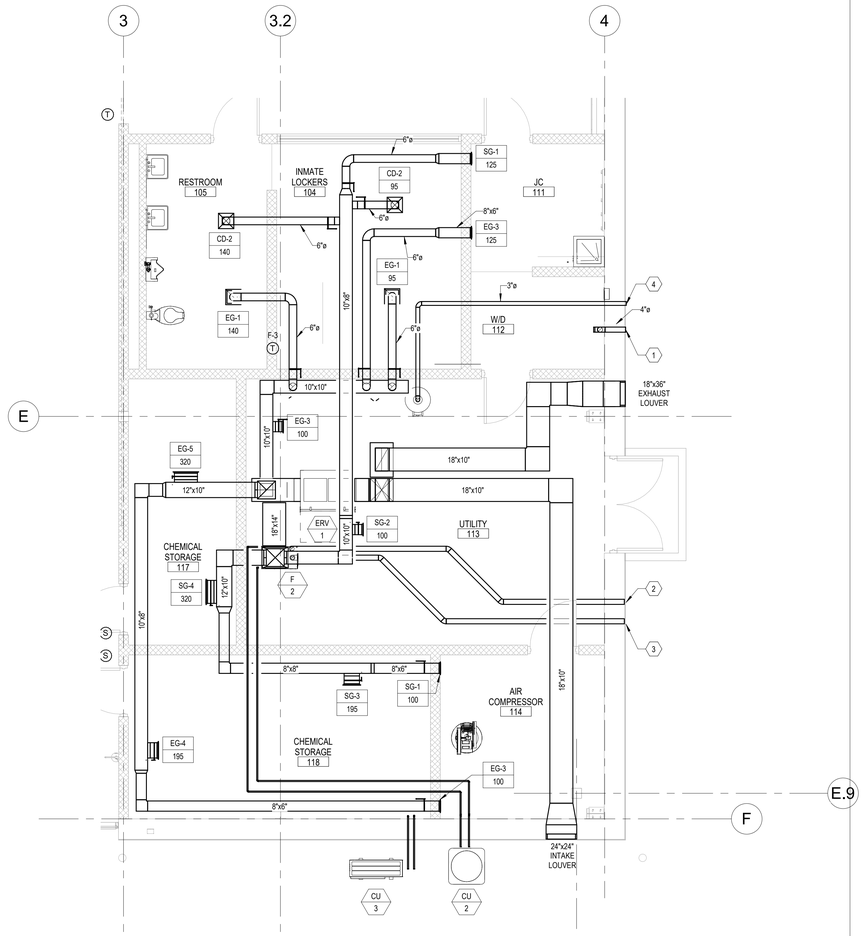
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1 MECHANICAL - ENLARGED FLOOR PLAN - ADMINISTRATION

1/4" = 1'-0"



2 MECHANICAL - ENLARGED FLOOR PLAN - LOCKER/MECHANICAL SPACE

1/4" = 1'-0"

GENERAL SHEET NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
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4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES ON PROJECT.
5. ALL NON-FIRE RATED PENETRATIONS OF THE BUILDING WALLS SHALL BE SEALED WITH QUALITY CAULK SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL POWER WIRING OF EQUIPMENT SHALL BE BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR, AND ALL FIRE PROTECTION SIGNAL OR CONTROL WIRING SHALL BE BY FIRE PROTECTION CONTRACTOR. ALL POWER AND CONTROL CONDUITS SHALL BE BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY STRUCTURAL ELEMENTS THAT MUST BE CUT AND/OR REMOVED FOR INSTALLATION OF DUCTWORK OR MECHANICAL EQUIPMENT WITH THE APPROVAL OF THE ENGINEER.
8. ALL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM LOCAL HEAT SOURCES, AIRFLOW FROM SUPPLY GRILLES, AND IN AN AREA WITH REPRESENTATIVE CONDITIONS OF THE ROOM.
9. CONTRACTOR SHALL INSTALL ALL LOOSE-SHIPPED COMPONENTS FOR THE HVAC EQUIPMENT.
10. COORDINATE DUCTWORK AND GRILLE INSTALLATION WITH LIGHTING LAYOUT, STRUCTURAL ELEMENTS, AND ELECTRICAL CONDUITS.
11. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS. WHERE WORK IS SHOWN ON THE DRAWING AND NOT SPECIFIED OR SPECIFIED AND NOT SHOWN ON DRAWING, THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT CONDITION SHALL APPLY.
12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

SHEET KEYNOTES

1. 4" DRYER EXHAUST DUCTWORK. TERMINATE WITH DRY VENT CAP.
2. ROUTE 4" COMBUSTION AIR DUCT TO FURNACE. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
3. 4" FLUE FROM FURNACE. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
4. 3" FLUE FROM GAS WATER HEATER. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
5. 10"x10" SUPPLY AIR DUCTWORK DOWN FROM MEZZANINE.
6. 10"x10" RETURN AIR DUCTWORK UP TO MEZZANINE.
7. 6" EXHAUST AIR DUCTWORK UP TO MEZZANINE.

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Akron, OH 44311
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REV.	DATE	DESCRIPTION

LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

MECHANICAL -ENLARGED FLOOR PLANS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

JOB NO.
2023352.01

M-401

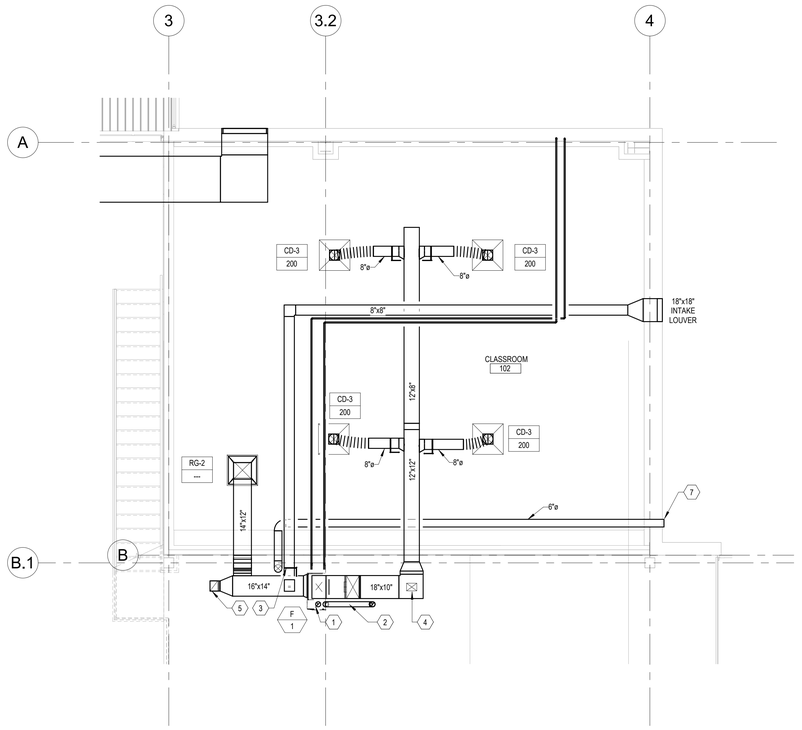
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VENTILATION SCHEDULE

ROOM NUMBER	AREA	OCCUPANCY CATEGORY	FLOOR AREA Az SQ.FT.	AREA OA FLOWRATE Ra CFM / SQ.FT.	PEOPLE OA FLOWRATE Rp CFM / PERSON	OCCUPANT DENSITY PEOPLE/ 1000 SQ.FT.	PEOPLE Pz PEOPLE	EFFECT.	MAX. REQ. OA FLOWRATE Vbz MAX CFM	EXHAUST RATE CFM / SQ.FT.	REQUIRED EXHAUST CFM	PROVIDED OA FLOWRATE CFM	PROVIDED EXHAUST CFM
F-1 ADMINISTRATION AREA & CLASSROOM													
102	CLASSROOM	CLASSROOM	797	0.12	10.0	25	5	0.8	182.1	0.0	0.0	185.0	0.0
104	OFFICE	OFFICE	487	0.06	5.0	5	3	0.8	55.3	0.0	0.0	55.0	0.0
105	STAFF RESTROOM	PUBLIC RESTROOM	55	0.00	0.0	0	0	0.8	0.0	70/50	70.0	0	70.0
								TOTAL	237.4		70.0	240.0	70.0
F-2 & ERV-1													
111	JANITOR'S CLOSET	JANITOR CLOSET	125	0.00	0.0	0	0	0.8	0.0	1.0	125.0	125.0	125.0
113	UTILITY	DRY STORAGE	429	0.06	5.0	2	0	0.8	32.2	0.0	0.0	100.0	100.0
114	AIR COMPRESSOR	DRY STORAGE	115	0.06	5.0	2	0	0.8	8.6	0.0	0.0	100.0	100.0
115	RESTROOM	PUBLIC RESTROOM	129	0.00	0.0	0	0	0.8	0.0	70/50	140.0	140.0	140.0
116	INMATE LOCKERS	LOCKER ROOM	183	0.00	0.0	0	0	0.8	0.0	0.5	91.5	95.0	95.0
117	CHEMICAL STORAGE	STORAGE ROOM - CHEMICAL	129	0.06	5.0	2	0	0.8	9.7	1.5	193.5	195.0	195.0
118	CHEMICAL STORAGE	STORAGE ROOM - CHEMICAL	211	0.06	5.0	2	0	0.8	15.8	1.5	316.5	320.2	320.0
								TOTAL	66.3		866.5	1075.0	1075.0
MAU-1													
101	BUS GARAGE	REPAIR GARAGE	4222	0.00	0.0	0	0	0.8	0.0	0.75	3166.5	3545.0	3170.0
								TOTAL	0.0		3166.5	3545.0	3170.0
MAU-2 & MAU-3													
103	HALL	CORRIDOR	167	0.06	0.0	0	0	0.8	12.5	0.0	0.0	15	0.0
110	HALL	CORRIDOR	199	0.06	0.0	0	0	0.8	15.0	0.0	0.0	15	0.0
119	CAR GARAGE	REPAIR GARAGE	7520	0.00	0.0	0	0	0.8	0.0	0.75	5650.0	5970	5650.0
								TOTAL	0.0		5650.0	6000	5650.0

REMARKS:

1. PER ASHRAE 62.1 - 2019



1 MECHANICAL - ENLARGED FLOOR PLAN - CLASSROOM
1/4" = 1'-0"

GENERAL SHEET NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS ON THE SITE PRIOR TO INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN OR IMPLIED ON MECHANICAL SHEETS EXCEPT AS NOTED.
2. THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND GUARANTEE THE INSTALLATION FREE FROM DEFECT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF INSTALLATION.
3. CONTRACTOR SHALL UTILIZE SERVICES OF A PROFESSIONAL BALANCE CONTRACTOR TO PERFORM AIR AND WATER BALANCES ON ALL HVAC EQUIPMENT TO ACHIEVE THE AIRFLOWS INDICATED AND AS REQUIRED PER THE SPECIFICATIONS.
4. MECHANICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES ON PROJECT.
5. ALL NON-FIRE RATED PENETRATIONS OF THE BUILDING WALLS SHALL BE SEALED WITH QUALITY CAULK SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. ALL POWER WIRING OF EQUIPMENT SHALL BE BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR, AND ALL FIRE PROTECTION SIGNAL OR CONTROL WIRING SHALL BE BY FIRE PROTECTION CONTRACTOR. ALL POWER AND CONTROL CONDUITS SHALL BE BY ELECTRICAL CONTRACTOR.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY STRUCTURAL ELEMENTS THAT MUST BE CUT AND/OR REMOVED FOR INSTALLATION OF DUCTWORK OR MECHANICAL EQUIPMENT WITH THE APPROVAL OF THE ENGINEER.
8. ALL TEMPERATURE SENSORS SHALL BE LOCATED AWAY FROM LOCAL HEAT SOURCES, AIRFLOW FROM SUPPLY GRILLES, AND IN AN AREA WITH REPRESENTATIVE CONDITIONS OF THE ROOM.
9. CONTRACTOR SHALL INSTALL ALL LOOSE-SHIPPED COMPONENTS FOR THE HVAC EQUIPMENT.
10. COORDINATE DUCTWORK AND GRILLE INSTALLATION WITH LIGHTING LAYOUT, STRUCTURAL ELEMENTS, AND ELECTRICAL CONDUITS.
11. THE CONTRACTOR SHALL EXECUTE THE WORK IN STRICT ACCORDANCE WITH SPECIFICATIONS AND DRAWINGS. WHERE WORK IS SHOWN ON THE DRAWING AND NOT SPECIFIED OR SPECIFIED AND NOT SHOWN ON DRAWING, THE CONTRACTOR SHALL PROVIDE ALL SUCH WORK IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT CONDITION SHALL APPLY.
12. SEAL ALL PENETRATION WATERTIGHT.
13. SEE SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION TYPE AND MATERIAL.

SHEET KEYNOTES

1. ROUTE 4" COMBUSTION AIR DUCT TO FURNACE. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
2. 4" FLUE FROM FURNACE. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
3. BALANCE OUTSIDE AIR TO 240 CFM.
4. 10"x10" SUPPLY AIR DUCTWORK DOWN FROM MEZZANINE.
5. 10"x10" RETURN AIR DUCTWORK UP TO MEZZANINE.
6. 6" DIA EXHAUST DUCTWORK TERMINATE WITH VENT CAP

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Akron, OH 44311
330.572.2100 Fax 330.572.2101

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REV.	DATE	DESCRIPTION

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION,
BID, RELIANCE,
RECORDING PURPOSES
OR IMPLEMENTATION.

LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

MECHANICAL -ENLARGED FLOOR PLANS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

JOB NO.
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SEQUENCE OF OPERATION

BUS GARAGE MAKE-UP AIR UNIT (MAU-1) AND EXHAUST FANS (EF-1 AND EF-2 ALONG WITH TAILPIPE EXHAUST FAN EF-7)

THE BUS GARAGEHEATING AND VENTILATION SYSTEM CONSIST OF ONE (1) CONSTANT VOLUME HEATING ONLY MAKE-UP AIR UNIT, MAU-1, ONE (1) VARIABLE SPEED PURGE EXHAUST FAN, EF-2, ONE (1) CONSTANT SPEED GENERAL EXHUAST FAN, EF-1, AND ONE (1) TAILPIPE EXHAUST FAN, EF-7.

OCCUPIED OPERATION:

DURING OCCUPIED MODE, MAU-1 SHALL BE ENERGIZE AND THE OUTSIDE AIR DAMPER TO THE 100% OUTSIDE AIRFLOW SET POINT OF 3,170 CFM. THE PURGE EXHAUST FAN FOR THE BUS GARAGE, EF-2, SHALL BE ENERGIZED AND MODULATE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 375 CFM OF POSITIVE PRESSURE. CONTRACTOR TO BALANCE SYSTEM TO INDICATED AIRFLOWS AND RECORD ROOM PRESSURE IN IN.WG. ROOM PRESSURE SET POINT FOR THE BUS GARAGE SHALL BE SET TO THIS PRESSURE AND BE MAINTAIN ACROSS ALL EXHAUST SCENERIOS. AS THE TAILPIPE EXHAUST SYSTEM IS UTILIZED AND EACH OUTLET COMES INTO USE THE TAILPIPE EXHAUST FAN, EF-7, SHALL ENERGIZE AND THE PURGE EXHAUST FAN, EF-2, SHALL REDUCED AIRFLOW TO MAINTAIN SET ROOM PRESSURE. THE PURGE EXHAUST, EF-2, WILL BE VARIED DEPENDENT ON THE NUMBER OF OUTLETS IN USE, SEE AIR BALANCE TABLE. ONCE NONE OF THE TAILPIPE EXHAUST OUTLETS ARE IN USE TAILPIPE EXHAUST FAN, EF-7, SHALL DE-ENERGIZE.

UPON A CALL FOR HEAT THE GAS VALVE SHALL MODULATE ON TO MAINTAIN A SPACE TEMPERATURE OF 70°F±2°. ONCE SPACE TEMPERATURE IS SATISFIED GAS VALVE SHALL CLOSE.

UNOCCUPIED OPERATION:

THE MAKE-UP AIR UNIT, MAU-1, SUPPLY FAN AND EXHAUST FAN, EF-2, AND THE TAILPIPE EXHAUST SYSTEM SHALL DE-ENERGIZE, AND THE MIXED AIR DAMPERS CLOSED TO THE OUTDOOR AIR. GENERAL EXHAUST FAN, EF-1, SHALL ENERGIZE TO PROVIDE GENERAL EXHAUST TO THE SPACE.

NIGHT HEATING: WHEN THE SPACE TEMPERATURE IS BELOW 62°F±2°, THE SUPPLY FAN STARTS AND THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90° F. WHILE THE EXHAUST FAN REMAINS OFF AND THE MIXING SECTION REMAINS CLOSED TO OUTSIDE AIR. WHEN THE SPACE TEMPERATURE IS 2° ABOVE SET POINT, THE SUPPLY FAN STOPS AND BURNER SHUTS DOWN WARM-UP MODE: WHEN THE SPACE TEMPERATURE IS BELOW OCCUPIED SET POINT, THE SUPPLY FAN STARTS AND OUTSIDE AIR DAMPER REMAINS CLOSED. THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90°F. THE SYSTEM NOW OPERATES UNTIL OCCUPIED SPACE TEMPERATURE IS ACHIEVED. THE WARM-UP MODE SHALL BE ENABLED 1 HOUR BEFORE SCHEDULED OCCUPANCY.

SAFETY

A CURRENT SWITCH IS INSTALLED AT THE SUPPLY FAN, TAILPIPE EXHAUST FAN AND GENERAL EXHAUST FAN. THE DIRECT DIGITAL CONTROL (DDC) SYSTEM USES THE SWITCHES TO CONFIRM THE FAN IS IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM SIGNAL IF STATUS DEVIATES FROM THE DDC START/STOP CONTROL

FREEZE PROTECTION: A LOW TEMPERATURE DETECTOR DOWNSTREAM OF THE BURNER ALARMS WHEN THE TEMPERATURE FALLS BELOW 50°F. ALARM LOW DISCHARGE AIR TEMPERATURE.

TREND LOG: TREND ACTUAL SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT IN 15 MINUTE INTERVALS. DATA TO BE DISPLAYED IN GRAPHICAL AND SPREADSHEET FORMAT.

SMOKE DETECTORS INSTALLED IN RETURN AIR STREAM SHALL DE-ENERGIZE THE SUPPLY AND EXHAUST FANS UPON ACTIVATION. ALL OTHER DAMPERS AND VALVES SHALL RETURN TO THEIR NORMAL POSITIONS AFTER THE FANS ARE COMPLETELY DE-ENERGIZED.

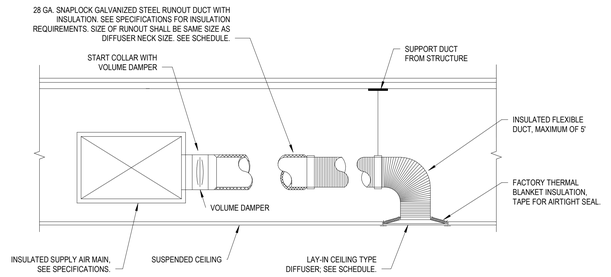
NOTE: ALL SET POINTS AND SETTINGS ARE ADJUSTABLE

7 BUS GARAGE SEQUENCE OF OPEATION
N.T.S.

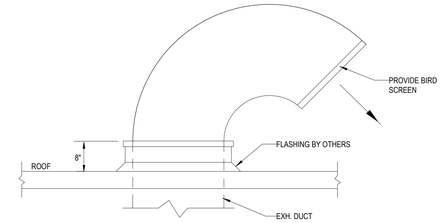
AIR BALANCE

OPERATION MODE	MAKE-UP AIR UNIT (MAU-1)			PURGE EA (EF-2)	GEN. EA (EF-1)	TAILPIPE EA (EF-9)		TOTAL EA	PRESSURIZATION
	SA	OA	RA	EA	EA	NO.	EA		
OCCUPIED (NO PURGE) - NO TAILPIPE EXHAUST IN USE	3,545	3,545	0	3,170	0	0	0	3,170	+375
OCCUPIED (NO PURGE) - 1 TAILPIPE EXHAUST IN USE	3,545	3,545	0	2,750	0	1	420	3,170	+375
OCCUPIED (NO PURGE) - 2 TAILPIPE EXHAUST IN USE	3,545	3,545	0	2,330	0	2	420	3,170	+375
UNOCCUPIED	3,545	0	3,545	0	300	0	0	0	-300

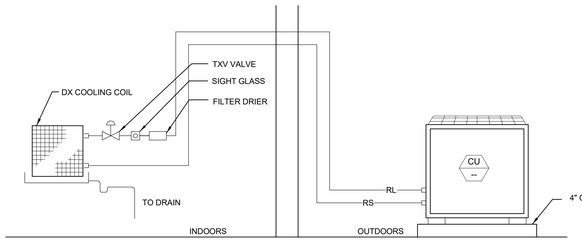
1. OCCUPIED VENTILATION/EXHAUST IS 0.75 CFM/SF.
2. TAIL PIPE EXHAUST FAN RUNS AT CONSTANT SPEED, MANUALLY INITIATED. ACTUAL FLOW DEPENDS ON QUANTITY OF TAIL PIPE EXHAUSTS OPEN (FAN RIDES CURVE).
3. IN OCCUPIED MODE, MAU-1 IS 100% OUTSIDE AIR. IN UNOCCUPIED MODE MAU-1 IS 100% RETURN AIR



1 SUPPLY DIFFUSER CONNECTION DETAIL
N.T.S.



4 GOOSNECK DUCT DETAIL
N.T.S.



5 DX PIPING SCHEMATIC
N.T.S.

SEQUENCE OF OPERATION

CAR GARAGE (NORTH) MAKE-UP AIR UNIT (MAU-3) AND EXHAUST FANS (EF-3 AND EF-4 ALONG WITH TAILPIPE EXHAUST FAN EF-9)

THE BUS GARAGEHEATING AND VENTILATION SYSTEM CONSIST OF ONE (1) CONSTANT VOLUME HEATING ONLY MAKE-UP AIR UNIT, MAU-3, ONE (1) VARIABLE SPEED PURGE EXHAUST FAN, EF-4, ONE (1) CONSTANT SPEED GENERAL EXHAUST FAN, EF-3, AND ONE (1) TAILPIPE EXHAUST FAN, EF-9.

OCCUPIED OPERATION:

DURING OCCUPIED MODE, MAU-3 SHALL BE ENERGIZE AND THE OUTSIDE AIR DAMPER TO THE 100% OUTSIDE AIRFLOW SET POINT OF 3,000 CFM. THE PURGE EXHAUST FAN FOR THE CAR GARAGE (NORTH), EF-4, SHALL BE ENERGIZED AND MODULATE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 350 CFM OF POSITIVE PRESSURE FOR ENTIRE GARAGE SPACE. CONTRACTOR TO BALANCE SYSTEM TO INDICATED AIRFLOWS AND RECORD ROOM PRESSURE IN IN.WG. ROOM PRESSURE SET POINT FOR THE BUS GARAGE SHALL BE SET TO THIS PRESSURE AND BE MAINTAIN ACROSS ALL EXHAUST SCENERIOS. AS THE TAILPIPE EXHAUST SYSTEM IS UTILIZED AND EACH OUTLET COMES INTO USE THE TAILPIPE EXHAUST FAN, EF-9, SHALL ENERGIZE AND THE PURGE EXHAUST FAN, EF-4, SHALL REDUCED AIRFLOW TO MAINTAIN SET ROOM PRESSURE. THE PURGE EXHAUST, EF-4, WILL BE VARIED DEPENDENT ON THE NUMBER OF OUTLETS IN USE, SEE AIR BALANCE TABLE. ONCE NONE OF THE TAILPIPE EXHAUST OUTLETS ARE IN USE TAILPIPE EXHAUST FAN, EF-9, SHALL DE-ENERGIZE.

UPON A CALL FOR HEAT THE GAS VALVE SHALL MODULATE ON TO MAINTAIN A SPACE TEMPERATURE OF 70°F±2°. ONCE SPACE TEMPERATURE IS SATISFIED GAS VALVE SHALL CLOSE.

UNOCCUPIED OPERATION:

THE MAKE-UP AIR UNIT, MAU-2, SUPPLY FAN AND EXHAUST FAN, EF-4, AND THE TAILPIPE EXHAUST SYSTEM SHALL DE-ENERGIZE, AND THE MIXED AIR DAMPERS CLOSED TO THE OUTDOOR AIR. GENERAL EXHAUST FAN, EF-3, SHALL ENERGIZE TO PROVIDE GENERAL EXHAUST TO THE SPACE.

NIGHT HEATING: WHEN THE SPACE TEMPERATURE IS BELOW 62°F±2°, THE SUPPLY FAN STARTS AND THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90° F. WHILE THE EXHAUST FAN REMAINS OFF AND THE MIXING SECTION REMAINS CLOSED TO OUTSIDE AIR. WHEN THE SPACE TEMPERATURE IS 2° ABOVE SET POINT, THE SUPPLY FAN STOPS AND BURNER SHUTS DOWN WARM-UP MODE: WHEN THE SPACE TEMPERATURE IS BELOW OCCUPIED SET POINT, THE SUPPLY FAN STARTS AND OUTSIDE AIR DAMPER REMAINS CLOSED. THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90°F. THE SYSTEM NOW OPERATES UNTIL OCCUPIED SPACE TEMPERATURE IS ACHIEVED. THE WARM-UP MODE SHALL BE ENABLED 1 HOUR BEFORE SCHEDULED OCCUPANCY.

SAFETY

A CURRENT SWITCH IS INSTALLED AT THE SUPPLY FAN, TAILPIPE EXHAUST FAN AND GENERAL EXHAUST FAN. THE DIRECT DIGITAL CONTROL (DDC) SYSTEM USES THE SWITCHES TO CONFIRM THE FAN IS IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM SIGNAL IF STATUS DEVIATES FROM THE DDC START/STOP CONTROL

FREEZE PROTECTION: A LOW TEMPERATURE DETECTOR DOWNSTREAM OF THE BURNER ALARMS WHEN THE TEMPERATURE FALLS BELOW 50°F. ALARM LOW DISCHARGE AIR TEMPERATURE.

TREND LOG: TREND ACTUAL SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT IN 15 MINUTE INTERVALS. DATA TO BE DISPLAYED IN GRAPHICAL AND SPREADSHEET FORMAT.

SMOKE DETECTORS INSTALLED IN RETURN AIR STREAM SHALL DE-ENERGIZE THE SUPPLY AND EXHAUST FANS UPON ACTIVATION. ALL OTHER DAMPERS AND VALVES SHALL RETURN TO THEIR NORMAL POSITIONS AFTER THE FANS ARE COMPLETELY DE-ENERGIZED.

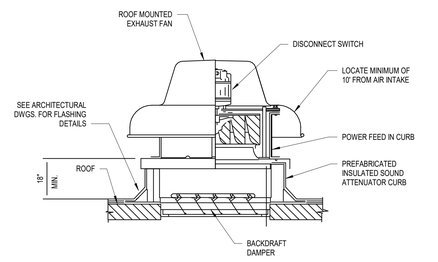
NOTE: ALL SET POINTS AND SETTINGS ARE ADJUSTABLE

8 CAR GARAGE (NORTH) SEQUENCE OF OPEATION
N.T.S.

AIR BALANCE

OPERATION MODE	MAKE-UP AIR UNIT (MAU-3)			PURGE EA (EF-4)	GEN. EA (EF-3)	TAILPIPE EA (EF-9)		TOTAL EA
	SA	OA	RA	EA	EA	NO.	EA	
OCCUPIED (NO PURGE) - NO TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,825	0	0	0	2,825
OCCUPIED (NO PURGE) - 1 TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,475	0	1	350	2,825
OCCUPIED (NO PURGE) - 2 TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,125	0	2	350	2,825
OCCUPIED (NO PURGE) - 3 TAILPIPE EXHAUST IN USE	3,000	3,000	0	1,775	0	3	350	2,825
UNOCCUPIED	3,000	0	3,000	0	400	0	0	400

1. OCCUPIED VENTILATION/EXHAUST IS 0.75 CFM/SF.
2. TAIL PIPE EXHAUST FAN RUNS AT CONSTANT SPEED, MANUALLY INITIATED. ACTUAL FLOW DEPENDS ON QUANTITY OF TAIL PIPE EXHAUSTS OPEN (FAN RIDES CURVE).
3. IN OCCUPIED MODE, MAU-1 IS 100% OUTSIDE AIR. IN UNOCCUPIED MODE MAU-3 IS 100% RETURN AIR



2 ROOF MOUNTED EXHAUST FAN DETAIL
N.T.S.

SEQUENCE OF OPERATION

CAR GARAGE (SOUTH) MAKE-UP AIR UNIT (MAU-2) AND EXHAUST FANS (EF-5 AND EF-4 ALONG WITH TAILPIPE EXHAUST FAN EF-8)

THE BUS GARAGEHEATING AND VENTILATION SYSTEM CONSIST OF ONE (1) CONSTANT VOLUME HEATING ONLY MAKE-UP AIR UNIT, MAU-2, ONE (1) VARIABLE SPEED PURGE EXHAUST FAN, EF-5, ONE (1) CONSTANT SPEED GENERAL EXHUAST FAN, EF-3, AND ONE (1) TAILPIPE EXHAUST FAN, EF-8.

OCCUPIED OPERATION:

DURING OCCUPIED MODE, MAU-2 SHALL BE ENERGIZE AND THE OUTSIDE AIR DAMPER TO THE 100% OUTSIDE AIRFLOW SET POINT OF 3,000 CFM. THE PURGE EXHAUST FAN FOR THE CAR GARAGE (NORTH), EF-4, SHALL BE ENERGIZED AND MODULATE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 350 CFM OF POSITIVE PRESSURE FOR ENTIRE GARAGE SPACE. CONTRACTOR TO BALANCE SYSTEM TO INDICATED AIRFLOWS AND RECORD ROOM PRESSURE IN IN.WG. ROOM PRESSURE SET POINT FOR THE BUS GARAGE SHALL BE SET TO THIS PRESSURE AND BE MAINTAIN ACROSS ALL EXHAUST SCENERIOS. AS THE TAILPIPE EXHAUST SYSTEM IS UTILIZED AND EACH OUTLET COMES INTO USE THE TAILPIPE EXHAUST FAN, EF-9, SHALL ENERGIZE AND THE PURGE EXHAUST FAN, EF-4, SHALL REDUCED AIRFLOW TO MAINTAIN SET ROOM PRESSURE. THE PURGE EXHAUST, EF-4, WILL BE VARIED DEPENDENT ON THE NUMBER OF OUTLETS IN USE, SEE AIR BALANCE TABLE. ONCE NONE OF THE TAILPIPE EXHAUST OUTLETS ARE IN USE TAILPIPE EXHAUST FAN, EF-9, SHALL DE-ENERGIZE.

UPON A CALL FOR HEAT THE GAS VALVE SHALL MODULATE ON TO MAINTAIN A SPACE TEMPERATURE OF 70°F±2°. ONCE SPACE TEMPERATURE IS SATISFIED GAS VALVE SHALL CLOSE.

UNOCCUPIED OPERATION:

THE MAKE-UP AIR UNIT, MAU-2, SUPPLY FAN AND EXHAUST FAN, EF-4, AND THE TAILPIPE EXHAUST SYSTEM SHALL DE-ENERGIZE, AND THE MIXED AIR DAMPERS CLOSED TO THE OUTDOOR AIR. GENERAL EXHAUST FAN, EF-3, SHALL ENERGIZE TO PROVIDE GENERAL EXHAUST TO THE SPACE.

NIGHT HEATING: WHEN THE SPACE TEMPERATURE IS BELOW 62°F±2°, THE SUPPLY FAN STARTS AND THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90° F. WHILE THE EXHAUST FAN REMAINS OFF AND THE MIXING SECTION REMAINS CLOSED TO OUTSIDE AIR. WHEN THE SPACE TEMPERATURE IS 2° ABOVE SET POINT, THE SUPPLY FAN STOPS AND BURNER SHUTS DOWN WARM-UP MODE: WHEN THE SPACE TEMPERATURE IS BELOW OCCUPIED SET POINT, THE SUPPLY FAN STARTS AND OUTSIDE AIR DAMPER REMAINS CLOSED. THE HEATING SECTION MODULATE TO MAINTAIN THE LEAVING AIR TEMPERATURE AT 90°F. THE SYSTEM NOW OPERATES UNTIL OCCUPIED SPACE TEMPERATURE IS ACHIEVED. THE WARM-UP MODE SHALL BE ENABLED 1 HOUR BEFORE SCHEDULED OCCUPANCY.

SAFETY

A CURRENT SWITCH IS INSTALLED AT THE SUPPLY FAN, TAILPIPE EXHAUST FAN AND GENERAL EXHAUST FAN. THE DIRECT DIGITAL CONTROL (DDC) SYSTEM USES THE SWITCHES TO CONFIRM THE FAN IS IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATES AN ALARM SIGNAL IF STATUS DEVIATES FROM THE DDC START/STOP CONTROL

FREEZE PROTECTION: A LOW TEMPERATURE DETECTOR DOWNSTREAM OF THE BURNER ALARMS WHEN THE TEMPERATURE FALLS BELOW 50°F. ALARM LOW DISCHARGE AIR TEMPERATURE.

TREND LOG: TREND ACTUAL SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT IN 15 MINUTE INTERVALS. DATA TO BE DISPLAYED IN GRAPHICAL AND SPREADSHEET FORMAT.

SMOKE DETECTORS INSTALLED IN RETURN AIR STREAM SHALL DE-ENERGIZE THE SUPPLY AND EXHAUST FANS UPON ACTIVATION. ALL OTHER DAMPERS AND VALVES SHALL RETURN TO THEIR NORMAL POSITIONS AFTER THE FANS ARE COMPLETELY DE-ENERGIZED.

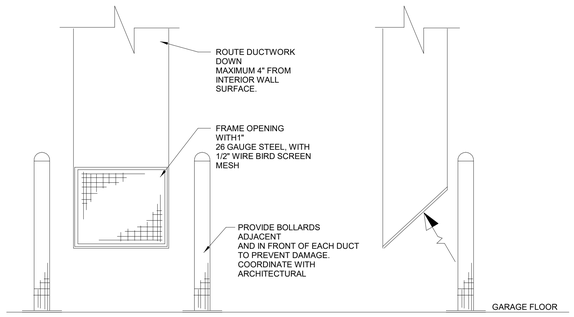
NOTE: ALL SET POINTS AND SETTINGS ARE ADJUSTABLE

9 CAR GARAGE (SOUTH) SEQUENCE OF OPEATION
N.T.S.

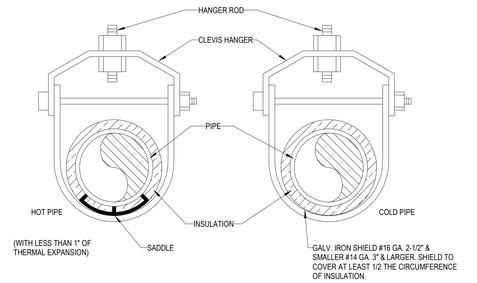
AIR BALANCE

OPERATION MODE	MAKE-UP AIR UNIT (MAU-2)			PURGE EA (EF-5)	GEN. EA (EF-3)	TAILPIPE EA (EF-8)		TOTAL EA
	SA	OA	RA	EA	EA	NO.	EA	
OCCUPIED (NO PURGE) - NO TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,825	0	0	0	2,825
OCCUPIED (NO PURGE) - 1 TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,475	0	1	350	2,825
OCCUPIED (NO PURGE) - 2 TAILPIPE EXHAUST IN USE	3,000	3,000	0	2,125	0	2	350	2,825
OCCUPIED (NO PURGE) - 3 TAILPIPE EXHAUST IN USE	3,000	3,000	0	1,775	0	3	350	2,825
OCCUPIED (NO PURGE) - 4 TAILPIPE EXHAUST IN USE	3,000	3,000	0	1,425	0	4	350	2,825
UNOCCUPIED	3,000	0	3,000	0	400	0	0	400

1. OCCUPIED VENTILATION/EXHAUST IS 0.75 CFM/SF.
2. TAIL PIPE EXHAUST FAN RUNS AT CONSTANT SPEED, MANUALLY INITIATED. ACTUAL FLOW DEPENDS ON QUANTITY OF TAIL PIPE EXHAUSTS OPEN (FAN RIDES CURVE).
3. IN OCCUPIED MODE, MAU-1 IS 100% OUTSIDE AIR. IN UNOCCUPIED MODE MAU-2 IS 100% RETURN AIR



6 GARAGE EXHAUST INTAKE DETAIL
N.T.S.



3 PIPE HANGERS FOR INSULATED PIPES (TYPICAL)
N.T.S.

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REV.	DATE	DESCRIPTION

LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON, OH 43140

MECHANICAL DETAILS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	KAB

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NATURAL GAS FURNACE WITH COOLING COIL SCHEDULE

MARK	MANUFACTURER MODEL NO.	SUPPLY FAN				HEATING CAPACITY						COOLING CAPACITY						ELECTRICAL DATA			REMARKS
		CFM	OA CFM	E.S.P. IN.WG	FAN MOTOR HP	INPUT MBH HI / LO	OUTPUT MBH HI / LO	AMBIENT AIR TEMP DEG F	EAT DB DEG F	LAT DB DEG F	AFUE	COOLING COIL MODEL NO.	NOMINAL TONS COOLING	AMBIENT AIR TEMP DEG F	EAT DB/WB DEG F	LAT DB/WB DEG F	SEER	V/PH/HZ	TOTAL UNIT AMPS	MAX OVER-CURRENT PROTECTION	
F 1	TRANE S9X2B060	1,200	240	0.9"	0.5	60.0 / 39.0	58.2 / 37.8	0.0	53.5	90.0	96.0	5TXCB006AS3HCA	3.0	90.0	77.2 / 66.2	57.4 / 56.3	14.0	120/1/60	11.3	15.0	(1)
F 2	TRANE S9X2B060	1,075	1,075	0.9"	0.75	60.0 / 39.0	58.2 / 37.8	0.0	50.5	90.0	95.0	5TXCB006AS3HCA	3.0	90.0	79.3 / 68.2	57.9 / 57.7	14.0	120/1/60	11.3	15.0	(1)

REMARKS:

1. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT, SIDE FILTER RACKS AND 7-DAY PROGRAMMABLE THERMOSTAT.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MANUFACTURER MODEL NO.	FANS				HEATING (WINTER)					COOLING (SUMMER)					ELECTRICAL DATA			REMARKS
		SUPPLY CFM	EXHAUST CFM	SUPPLY FAN MOTOR HP/FLA	EXHAUST FAN MOTOR HP/FLA	OA EAT DB/WB DEG F	FRESH AIR LAT DB/WB DEG F	RA EAT DB/WB DEG F	HEAT RECOVED MBH	TOTAL EFFECTIVENESS	OA EAT DB/WB DEG F	FRESH AIR LAT DB/WB DEG F	RA EAT DB/WB DEG F	HEAT RECOVED MBH	TOTAL EFFECTIVENESS	V/HZ/PH	MCA	MAX OVER-CURRENT PROTECTION	
ERV 1	RENEW AIRE HE1.5	1,075	1,075	1.0 / 2.7	1.0 / 2.7	4.1 / 2.8	50.5 / 39.4	70.0 / 51.3	6.8	68.7	90.0 / 73.7	79.3 / 68.2	75.0 / 62.4	16.8	51.6	208/1/60	6.1	15.0	(1)(2)

REMARKS:

1. INTERLOCK WITH FURNACE, F-2
2. PROVIDE WITH 2" MERV 13 FILTERS, BACKDRAFT DAMPER, NON FUSED DISCONNECT, ENHANCED CONTROLS, FILTER MONITORS, DUAL CONTACTORS

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MANUFACTURER MODEL NUMBER	TYPE	COOLING						ELECTRICAL	LINE SIZE		AIRFLOW	WEIGHT LBS.	REMARKS
			TOTAL MBH	SENS. MBH	OUTDOOR DB/WB	INDOOR DB/WB	SEER	EER	VOLTAGE	LIQUID	GAS	CFM HI / LOW		
AC 1	DAIKIN FTKF09A	WALL MOUNTED	9.0	8.29	95 / 75	80 / 67	21.0	12.0	208/1	1/4"	1/2"	716 / 467	36	(1)(2)(3)

REMARKS:

(1) INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.
(2) REFRIGERANT PIPE SIZES AND ROUTES SHOULD BE REVIEWED WITH MANUFACTURER PRIOR TO INSTALLATION.
(3) PROVIDE WITH LITTLE GIANT CONDENSATE PUMP, WIRED REMOTE CONTROLLER KIT, DISCONNECT SWITCH

RADIANT TUBE HEATER SCHEDULE

MARK	MANUFACTURER MODEL NUMBER	ELEC.	HIGH FIRE (MBH)	LOW FIRE (MBH)	LENGTH (FT)	MOUNTING HEIGHT (FT)	WEIGHT (LBS)	REMARKS
RH 1	DETROIT RADIANT HL3-50-200	120/1/60	200	145	50	18	235	(1)(2)
RH 2	DETROIT RADIANT HL3-40-150	120/1/60	150	100	40	17	190	(1)(2)
RH 3	DETROIT RADIANT HL3-20-75	120/1/60	75	50	20	10	120	(1)(2)

(1) PROVIDE WITH WALL MOUNTED TWO STAGE THERMOSTAT
(2) E.C. TO PROVIDE OUTLET NEAR BURNER BOX. COORDINATE EXACT LOCATION OF OUTLET.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER MODEL NUMBER	CFM	UNIT RATING (KW)	V/PH	APPROXIMATE WEIGHT (LBS.)	REMARKS	ACCESSORIES
EUH 1	INDEECO 9311F-F4007-N	150	4.0 / 2.0	277/1	23	(1)	A
EUH 2	INDEECO 9311F-F4007-N	150	4.0 / 2.0	277/1	23	(1)	A

REMARKS:
(1) MECHANICAL CONTRACTOR TO PROVIDE UNIT DISCONNECT. ELECTRICAL CONTRACTOR TO INSTALL.

ACCESSORIES:
A. REMOTE 24V PROGRAMMABLE THERMOSTAT. PROVIDE WITH CONTROL TRANSFORMER AND LOCKING COVER.

AIR COOLED CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER MODEL NO.	SERVICE	SIZE TONS	SEER	POWER	MCA	MAX FUSE SIZE	REFRIGERANT CONNECTION SIZES AT EQUIPMENT	WEIGHT LBS	REMARKS
CU 1	TRANE 5TTA3036	FURNACE F-1	3.0	13.0	460/3	6.8	15.0	RL - 5/16" RS - 3/4"	161	
CU 2	TRANE 5TTA4036A	FURNACE F-2	3.0	14.0	480/3	6.8	15.0	RL - 1/4" RS - 1/2"	156	
CU 3	DIAKIN RKF09A	AC UNIT AC-1	0.75	21.0	208/1	9.10	15.0	RL - 1/4" RS - 1/2"	66	

MAKE-UP AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER MODEL	SUPPLY FAN						OA	NATURAL GAS HEATING SECTION						ELECTRICAL			MAX WEIGHT lbs.	REMARKS
		CFM	ESP	TSP	RPM	BHP	MOTOR (HP)	CFM	INPUT MBH	OUTPUT MBH	EAT DB	LAT DB	TEMP RISE	STAGES	VOLTAGE	MCA	MOP		
MAU 1	TRANE GGAA25PFGF0N2BE101A01	3,454	1.0"	1.12"	842	1.14	2.0	3,170	250	200	0.0	55.0	55.0	2	480/3	4.84	15.0	716	(1)(2)
MAU 2	TRANE GGAA25PFGF0N2BE101A01	3,000	1.0"	1.12"	842	1.14	2.0	2,820	250	200	0.0	55.0	55.0	2	480/3	4.84	15.0	716	(1)(2)
MAU 3	TRANE GGAA25PFGF0N2BE101A01	3,000	1.0"	1.12"	842	1.14	2.0	2,820	250	200	0.0	55.0	55.0	2	480/3	4.84	15.0	716	(1)(2)

REMARKS:

1. PROVIDE WITH UNIT MOUNTED DISCONNECT, RETURN AIR SMOKE DETECTOR, CO GAS DETECTOR WITHIN UNIT.

DIFFUSER AND GRILLE SCHEDULE

MARK	MANUFACTURER MODEL NUMBER	NECK SIZE	FACE SIZE	MOUNTING	MAX CFM	PATTERN	SP @ MAX CFM	REMARKS
CD-1 -	TITUS OMNI-AA	6"Ø	24"x24"	LAY-IN	140	4-WAY	0.03	(1)(2)
CD-2 -	TITUS OMNI-AA	6"Ø	12"x12"	SURFACE	140	4-WAY	0.03	(1)(2)
CD-3 -	TITUS OMNI-AA	8"Ø	24"x24"	LAY-IN	250	4-WAY	0.03	(1)(2)
SG-1 -	TITUS 300RL	8"x6"	10"x8"	SURFACE	160	---	0.02	(1)(2)
SG-2 -	TITUS 300RL	8"x6"	10"x8"	DUCT	160	---	0.03	(1)(2)
SG-3 -	TITUS 300RL	12"x6"	14"x8"	DUCT	250	---	0.03	(1)(2)
SG-4 -	TITUS 300RL	18"x6"	20"x8"	DUCT	320	---	0.03	(1)(2)
RG-1 -	TITUS 50F	10"x10"	12"x12"	LAY-IN	415	---	0.03	(1)(2)
RG-4 -	TITUS 50F	10"x10"	12"x12"	DUCT	415	---	0.03	(1)(2)
TG-1 -	TITUS 50F	10"x10"	12"x12"	DUCT	415	---	0.03	(1)(2)
TG-2 -	TITUS 50F	18"x10"	20"x12"	DUCT	775	---	0.03	(1)(2)
EG-1 -	TITUS 50F	10"x10"	12"x12"	SURFACE	415	---	0.03	(1)(2)
EG-2 -	TITUS 350RL	8"x6"	10"x6"	SURFACE	160	---	0.02	(1)(2)
EG-3 -	TITUS 350RL	8"x6"	10"x8"	DUCT	160	---	0.02	(1)(2)
EG-4 -	TITUS 350RL	12"x6"	14"x8"	DUCT	250	---	0.03	(1)(2)
EG-5 -	TITUS 350RL	18"x6"	20"x8"	DUCT	320	---	0.03	(1)(2)

(1) MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
(2) FINISH & COLOR SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARDS.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	AIRFLOW (CFM)	E.S.P. (IN WC)	FRPM	MOTOR (HP)	OPERATING POWER (HP)	ELECTRIC	WEIGHT (LBS)	REMARKS
EF 1	GREENHECK G-070-VG	BUS GARAGE GENERAL EXHAUST	300	0.25	1,645	1/15	0.03	120/1	36	(1)
EF 2	GREENHECK G-200-VG	BUS GARAGE PURGE EXHAUST	3,170	0.50	781	3/4	0.62	120/1	123	(1)(7)
EF 3	GREENHECK G-090-VG	CAR GARAGE GENERAL EXHAUST	400	0.25	1,197	1/10	0.03	120/1	41	(1)
EF 4	GREENHECK G-180-VG	CAR GARAGE PURGE EXHAUST	2,825	0.50	900	1.0	0.46	120/1	121	(1)(7)
EF 5	GREENHECK G-180-VG	CAR GARAGE PURGE EXHAUST	2,825	0.50	900	1.0	0.46	120/1	121	(1)(7)
EF 6	GREENHECK SP-B90	RESTROOM EXHAUST	70	0.25	700	21 W	---	120/1	10	(2)
EF 7	FUME-A-VENT PB-12-2-3-U	BUS GARAGE TAILPIPE EXHAUST	873	4.0	---	2 HP	---	480/3	91	(3)(4)
EF 8	FUME-A-VENT PB-15-5-3-U	CAR GARAGE TAILPIPE EXHAUST	1,756	4.0	---	5 HP	---	480/3	176	(3)(5)
EF 9	FUME-A-VENT PB-12-2-3-U	CAR GARAGE TAILPIPE EXHAUST	1,300	4.0	---	3 HP	---	480/3	139	(3)(6)

(1) PROVIDE WITH BACKDRAFT DAMPER, FACTORY MOUNTED DISCONNECT SWITCH, 18" ROOF CURB AND BIRD SCREEN. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL LOW VOLTAGE CONTROL WIRING.
(2) PROVIDE WITH BACKDRAFT DAMPER, FACTORY MOUNTED DISCONNECT SWITCH. INTERLOCK WITH LIGHT SWITCH
(3) PROVIDE WITH FAN MOUNTED DISCONNECT SWITCH.
(4) PROVIDE WITH FUME-A-VENT MODEL CBS-2-460-3 FAN CONTROL BOX STARTER, FAN STATIC PRESSURE DETERMINED BY MANUFACTURER. STATIC PRESSURE LISTED IS FOR REFERENCE ONLY.
(5) PROVIDE WITH FUME-A-VENT MODEL CBS-5-460-3 FAN CONTROL BOX STARTER, FAN STATIC PRESSURE DETERMINED BY MANUFACTURER. STATIC PRESSURE LISTED IS FOR REFERENCE ONLY.
(6) PROVIDE WITH FUME-A-VENT MODEL CBS-3-460-3 FAN CONTROL BOX STARTER, FAN STATIC PRESSURE DETERMINED BY MANUFACTURER. STATIC PRESSURE LISTED IS FOR REFERENCE ONLY.
(7) PROVIDE WITH SPEED CONTROL (ECM MOTOR), BACKDRAFT DAMPER, FACTORY MOUNTED DISCONNECT SWITCH, VARI-GREEN MOTOR TO BE CONFIGURED TO ACCEPT 0-10 VOLT DC SIGNAL

LEGEND MECHANICAL SYMBOLS

SYMBOL & ABBREVIATION	DESCRIPTION
SA/SUP	SUPPLY AIR (RISE/DROP)
RA/RET	RETURN AIR DUCT (RISE/DROP)
EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
RR/RG	RETURN REGISTER/GRILL
ER/EG	EXHAUST REGISTER/GRILL
TV	TURNING VANES
FC	FLEX CONNECTION
MVD	MANUAL VOLUME DAMPER
F	FIRE DAMPER
(L)	INTERNAL LINING
	TAKEOFF
	TRANSITION
FLEX	FLEX DUCT
CD	CONDENSATE
DIA.	DIAMETER
AC 1	MECHANICAL EQUIPMENT DESIGNATION / DESIGNATION NUMBER
CD	CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	PIPE DROPPING DOWN
	PIPE RISING UP
D-1 200	DIFFUSER/GRILLE DESIGNATION / CFM QUANTITY
M	MOTORIZED DAMPER
S	TEMPERATURE SENSOR
T	PROGRAMMABLE THERMOSTAT CONTROLLER
MECH EQUIP	MINIMUM REQUIRED MAINTENANCE AREA

MECHANICAL ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF
AIR-HANDLING UNIT	AHU
BRAKE HORSEPOWER	BHP
BRITISH THERMAL UNIT	BTU
CUBIC FEET PER MINUTE	CFM
DECIBEL	DB
DEGREE	DEG OR °
DIAMETER	DIA Ø
FAHRENHEIT	°F
FEET PER MINUTE	FPM
FOOT OR FEET	FT
HORSEPOWER	HP
KILOWATT	KW
LEAVING AIR TEMPERATURE	LAT
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
OUTSIDE AIR	OA
PERCENT	%
POUNDS	LBS
RELATIVE HUMIDITY	RH
RETURN AIR	RA
SUCTION	SUCT
SUPPLY AIR	SA
TEMPERATURE	TEMP
THERMOSTAT	T STAT

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1580 STATE ROUTE 56SW
LONDON, OH 43140

MECHANICAL SCHEDULES & LEGENDS

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
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PROJECT MANAGER	DESIGNER
RD	KAB

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ELECTRICAL SYMBOLS

A-1 — HOMERUN ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. ACCSIGNATION INDICATES HOMERUN TO PANEL "A" INDICATING CIRCUIT NUMBER(S) - ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.) - ALL HOMERUNS SHALL BE CONNECTED TO A 20 AMPERE, 1 POLE CIRCUIT BREAKER UON - QUANTITY OF CONDUCTORS AS NECESSARY TO ACCOMMODATE CIRCUITS AND CONTROL INDICATED. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE QUANTITY OF WIRES WITHIN EACH HOMERUN – 3/4" CONDUIT MINIMUM. ANY HOMERUN THAT SERVES AN ISOLATED GROUND RECEPTACLE SHALL BE PROVIDED AN ISOLATED GROUND (SIZED TO MATCH THE EQUIPMENT GROUND) IN ADDITION TO AN EQUIPMENT GROUND. DO NOT ROUTE ISOLATED GROUND CIRCUITS THROUGH SAME CONDUIT AS NORMAL CIRCUITS.

BRANCH CIRCUIT WIRING ON NORMAL POWER ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE – 3/4" CONDUIT MINIMUM.

CONDUIT INSTALLED BELOW FINISHED GRADE OR ROUTED BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE.

-E- BRANCH CIRCUIT WIRING ON EMERGENCY POWER ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE – 3/4" CONDUIT MINIMUM.

-NE- BRANCH CIRCUIT WIRING ROUTED FROM THE LOAD SIDE OF THE GENERATOR TRANSFER DEVICE FOR A 20 AMP CIRCUIT, BODINE GTD20 DEVICE (OR EQUIVALENT). SINCE THE SAME CONDUCTORS ARE USED DURING BOTH NORMAL AND EMERGENCY CONDITIONS, THESE CONDUCTORS WILL NOT BE PERMITTED TO BE SHARED WITH ANY OTHER CONDUCTORS THAT ARE EITHER FROM AN EMERGENCY POWER SOURCE OR A NORMAL POWER SOURCE. REFER TO GTD20 WIRING DIAGRAM FOR DETAILS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE – 3/4" CONDUIT MINIMUM.

RTU / 1 / XXX-XX — MECHANICAL TAG. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR DETAILS OF EQUIPMENT AND ELECTRICAL REQUIREMENTS.
CIRCUIT NUMBER IF REQUIRED.

T — THERMOSTAT - E.C. SHALL PROVIDE A SINGLE-GANG BACKBOX MTD. AT 46" AFF TO CENTERLINE OF DEVICE (44" TO BOTTOM) UON. AND SHALL STUB 3/4" EMPTY CONDUIT WITH PULLSTRING INTO SPACE ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH M.C. PRIOR TO ROUGH-IN. 120 VOLT THERMOSTATS ARE FURNISHED BY M.C., INSTALLED AND WIRED BY EC.; LOW VOLTAGE THERMOSTATS ARE FURNISHED BY M.C., ROUGHED-IN BY E.C. AND WIRED BY T.C.C.

S — SENSOR (THERMISTOR) - E.C. SHALL PROVIDE THE FOLLOWING ROUGH-IN FOR DEVICES FURNISHED BY THE M.C.: SINGLE-GANG BACKBOX MTD. AT 46" AFF TO CENTERLINE OF DEVICE (44" TO BOTTOM) UON. AND SHALL STUB 3/4" EMPTY CONDUIT WITH PULLSTRING INTO SPACE ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH M.C. PRIOR TO ROUGH-IN. LOW VOLTAGE WIRING BY T.C.C.

CO — CO2 DETECTOR - E.C. SHALL PROVIDE THE FOLLOWING ROUGH-IN FOR DEVICES FURNISHED BY THE M.C.: SINGLE-GANG BACKBOX MTD. AT 46" AFF TO CENTERLINE OF DEVICE (44" TO BOTTOM) UON. AND SHALL STUB 3/4" EMPTY CONDUIT WITH PULLSTRING INTO SPACE ABOVE ACCESSIBLE CEILING. COORDINATE LOCATIONS WITH M.C. PRIOR TO ROUGH-IN. LOW VOLTAGE WIRING BY T.C.C.

H — HUMIDISTAT - E.C. SHALL PROVIDE THE FOLLOWING ROUGH-IN FOR DEVICES FURNISHED BY THE M.C.: SINGLE-GANG BACKBOX, 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULLSTRING. COORDINATE LOCATIONS WITH M.C. PRIOR TO ROUGH-IN. LOW VOLTAGE WIRING BY T.C.C

TELEPHONE BOARD

120/240 VOLT, 1 PHASE, 3 WIRE PANELBOARD

208/120 VOLT, 3 PHASE, 4 WIRE PANELBOARD

480/277 VOLT, 3 PHASE, 4 WIRE PANELBOARD

OR — CORD REEL - ERICSON MODEL #F3123-35-B20G. GFCI QUAD OUTLET POWER CORD REEL, OR APPROVED EQUAL.

E.C. SHALL PROVIDE A 120V SINGLE POLE MOTOR RATED SWITCH NEAR UNIT FOR DISCONNECTING MEANS.

NON-FUSED DISCONNECT SWITCH. REFER TO DRAWINGS FOR MORE INFORMATION. NOTATION: RATED AMPS / RATED VOLTAGE / NUMBER OF POLES / NEMA RATING.

CONNECTION POINT OF EQUIPMENT - E.C. SHALL PROVIDE ALL DEVICES AND WIRING AS REQUIRED BY MANUFACTURER.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R. MOUNTED 8" ABOVE TOP OF COUNTER TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT, GROUNDING TYPE - MOUNTED 8" ABOVE TOP OF COUNTER TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT, GROUNDING TYPE -MOUNTED AT 18" AFF TO CENTERLINE OF DEVICE U.O.N.

DOUBLE DUPLEX RECEPTACLE (QUAD) - 20 AMPERE, 125 VOLT, GROUNDING TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

SPECIAL RECEPTACLE - REFER TO FLOOR PLANS FOR RECEPTACLE INFORMATION

J — JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS.

CEILING MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. THE SIGN SHALL BE INSTALLED CENTERED OVER EGRESS OPENING (IF POSSIBLE) AND THE BOTTOM OF THE SIGN SHALL BE APPROX. 6" ABOVE THE TOP OF THE EGRESS OPENING. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

REMOTE EMERGENCY EXIT DISCHARGE FIXTURE WITH AIMABLE LAMP HEADS. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

EXTERIOR WALL-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

SWITCH - 20 AMPERE, 120/277 VOLT, SINGLE-POLE. MOUNTED AT 46" ABOVE FINISHED FLOOR
$ — TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES THE FOLLOWING: 3 = 3-WAY, 4 = 4-WAY, K =KEYED, P = PILOT LIGHT, T = TIMER, M = MANUAL MOTOR STARTER SWITCH.

LOW VOLTAGE WALL CONTROL STATION WITH OCCUPANCY/VACANCY SENSOR.

LOW VOLTAGE DIMMING ON/OFF WALL SWITCH. MOUNTED AT 46" ABOVE FINISHED FLOOR TO CENTERLINE UNLESS OTHERWISE NOTED. 3 = 3-WAY

RECESSED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

TC — EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

STRIP LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

DAY LIGHT SENSOR

CEILING MOUNTED, LOW VOLTAGE, DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS), OCCUPANCY SENSOR.

ELECTRICAL FIXTURE TYPE SCHEDULE

C	SUBSCRIPT "C" INDICATES FEEDS COMPUTER STATION OR DATA LOCATION. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR ENGRAVED FACEPLATE FEEDING COMPUTERS.
CLG	CEILING MOUNTED RECEPTACLE.
DRYER	DEDICATED RECEPTACLE FOR DRYER,REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.
GFI/WP	DUPLEX RECEPTACLE -20 AMPERE, 125 VOLT -GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH WEATHERPROOF WHILE-IN-USE LOCKABLE HINGED COVER - MOUNTED AT 24" AFF TO CENTERLINE OF DEVICE UON. MOUNT DEVICE IN ACCESSIBLE LOCATION PER NEC. WP,AC. RECEPTACLES WITH THIS DESIGNATION SHALL BE LOCATED ABOVE COUNTER WITH A WEATHERPROOF COVER. COVER SHALL BE HUBBELL RW51810, OR EQUAL.
H	HORIZONTALLY MOUNTED RECEPTACLE
TC	TEACHER CABINET - RECEPTACLES SHALL BE SURGE SUPPRESSION TYPE. BLUE IN COLOR. COORDINATE EXACT SIZE OF BACKBOX REQUIRED TO ACCOMMODATE THE LARGER SIZE OF THE SURGE SUPPRESSED RECEPTACLES. MOUNT AT 44" ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE INSIDE TEACHERS' CABINET FLUSH WITH INSIDE FACE OF THE BACK PANEL FOR SUCH ITEMS AS: AMPLIFIER, DVD RECORDER/PLAYER, AND REMOTE WIRELESS RECHARGING STATION. VERIFY EXACT LOCATION AND HEIGHT OF BACKBOX(ES) PRIOR TO ROUGH-IN WITH INTERIOR CASEWORK ELEVATIONS AND CASEWORK SUBCONTRACTORS FOR THIS DEVICE AND FOR THE ASSOCIATED TECHNOLOGY DEVICES TO BE INSTALLED WITHIN SAME CABINET. INSTALL BACKBOXES WITH NECESSARY TRIMS OR EXTENSIONS TO ENSURE A FLUSH INSTALLATION OF THESE DEVICES.
TV	RECEPTACLE FOR TV LOCATIONS. COORDINATE LOCATIONS AND MOUNTING HEIGHTS WITH TECHNOLOGY AND ARCHITECTURAL / INTERIOR DRAWINGS PRIOR TO ROUGH-IN. LOCATE ADJACENT TO TECHNOLOGY "TV" DEVICE.
WASHER	DEDICATED RECEPTACLE FOR WASHER, REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.

ABBREVIATIONS

AC	SUBSCRIPT "AC" INDICATES DEVICE MOUNTED AT 8" ABOVE COUNTER TO CENTERLINE OF DEVICE
ACH	ABOVE COUNTER, HORIZONTALLY MOUNTED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BAS	BUILDING AUTOMATION SYSTEM SPECIFIED BY OTHERS
BB	SUBSCRIPT "BB" INDICATES DEVICE MOUNTED IN EXISTING BACKBOX MAINTAINED DURING RENOVATION.
BC	SUBSCRIPT "BC" INDICATES DEVICE MOUNTED BELOW COUNTER AS DIRECTED
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	(CIRCUIT) BREAKER
BOF	BOTTOM OF FIXTURE
CKT	CIRCUIT
CLG	DEVICE MOUNTED IN CEILING
DE	DUAL ELEMENT (FUSES)
DED	DEDICATED CIRCUIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMB	EMERGENCY VIA BATTERY
EMV	EMERGENCY VIA INVERTER
EPO	EMERGENCY POWER OFF
ETR	EXISTING DEVICE TO REMAIN
EWC	ELECTRICAL WATER COOLER
EXT	EXTERIOR
FAACP	FIRE ALARM AUXILIARY CONTROL PANEL
FAAP	FIRE ALARM ANNUNICATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HPF	HIGH POWER FACTOR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IG	ISOLATED GROUND
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OFE	OWNER FURNISHED EQUIPMENT
PC	PLUMBING CONTRACTOR
PRT	PRINTER
RF	RETURN FAN
RL	SUBSCRIPT "RL" INDICATES RELOCATED DEVICE
SF	SUPPLY FAN
SM	SUBSCRIPT "SM" INDICATES SURFACE MOUNTED DEVICE
SPD	SURGE PROTECTION DEVICE
SR	SUBSCRIPT "SR" INDICATES DEVICE MOUNTED WITHIN SURFACE RACEWAY
T-STAT	THERMOSTAT
TCC	TEMPERATURE CONTROL CONTRACTOR
UC	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

1. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.
2. ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT IN UNFINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ALL EXPOSED CONDUIT SHALL BE RIGID IN TYPE EMT OR GRC .
3. FIELD VERIFY EXACT LOCATION OF EQUIPMENT WITH ASSOCIATED EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT'S NAMEPLATE DATA. E.C. SHALL MAKE APPROPRIATE ADJUSTMENTS TO ASSOCIATED BREAKERS/DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING, AND SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.
4. THE PHRASE "PROVIDED BY" USED WITHIN THESE DOCUMENTS SHALL EXPLICITY REPRESENT "FURNISHED AND INSTALLED BY".
5. PROVIDE A LAYOUT OF EACH ELECTRICAL ROOM WITH THE ACTUAL DIMENSIONS OF ALL EQUIPMENT TO BE ORDERED SHOWN. SUBMIT LAYOUT WITH THE ELECTRICAL DISTRIBUTION EQUIPMENT SHOP DRAWINGS FOR REVIEW ANDAPPROVAL. ALL LAYOUTS SHALL SHOW HOW THE EQUIPMENT WILL FIT INTO THE ROOM AND MUST INCORPORATE THE WORKING CLEARANCES TO BE MAINTAINED PER NEC.
7. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD PROVIDED BY THE E.C..
8. PROVIDE VIBRATION INSULATORS BENEATH EACH TRANSFORMER TO ELIMINATE NOISE OR THE TRANSFERANCE OF VIBRATION TO ADJACENT ITEMSIAREAS.
9. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
10. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL E.C. SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.
11. ANY DEVICES THAT ARE TO BE INSTALLED BACK-TO-BACK IN A COMMON WALL SHALL BE SEPARATED BY 8' MINIMUM TO MINIMIZE SOUND TRANSFER.
12. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
13. BRANCH CIRCUITS SERVING ISOLATED GROUND RECEPTACLES SHALL INCLUDE AN ADDITIONAL ISOLATED GROUNDING CONDUCTOR FROM THE RECEPTACLE AND WILL TERMINATE ON THE ISOLATED/INSULATED GROUND BAR IN PANEL SERVING THEM.
14. COORDINATE ALL LOCATIONS OF FLOOR BOXES, RECEPTACLES, AND OTHER DEVICE BACKBOXES WITH CASEWORK AND FURNITURE LAYOUTS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIELD VERIFY EXACT LOCATIONS AND CONDUIT ROUTING METHODS WITH ARCHITECT PRIOR TO ROUGH-IN.
15. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. E.C. SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).
16. E.C. SHALL PROVIDE 3/4" MINIMUM EMPTY CONDUIT WITH PULLWIRE FOR CONTROL WIRING BETWEEN HVAC EQUIPMENT AND REMOTE LOCATED CONTROL PANELS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
17. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER NEC.
18. ALL AREAS THAT HAVE TOGGLE-TYPE LIGHT SWITCHES AND RECEPTACLES MOUNTED BESIDE DOOR OPENINGS AT 46" TO CENTERLINE MAY BE FURNISHED WITH A COMMON BACKBOX WITH BARRIERS BETWEEN THE DEVICES AND A COMMON FACEPLATE PER NEC. 404.8(B).
19. E.C. SHALL COORDINATE WITH THE FOLLOWING PRIOR TO ROUGH-IN: TECHNOLOGY VENDOR AND TECHNOLOGY DRAWINGS, MECHANICAL/PLUMBING CONTRACTOR AND MECHANICAL/PLUMBING DRAWINGS. E.C. SHALL PROVIDE ALL EQUIPMENT, DEVICES, WIRING AND CONDUITS AS SHOWN OR IMPLIED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
20. E.C. SHALL CONNECT CORD AND PLUG COMPONENTS SHIPPED LOOSE WITH ANY EQUIPMENT FURNISHED BY OTHER TRADES PER MANFACTURER'S INSTALLATION INSTRUCTIONS.
21. ALL CONDUITS SHALL BE PROVIDED WITH PULLSTRINGS.

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REV.	DATE	DESCRIPTION

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ELECTRICAL - LEGEND

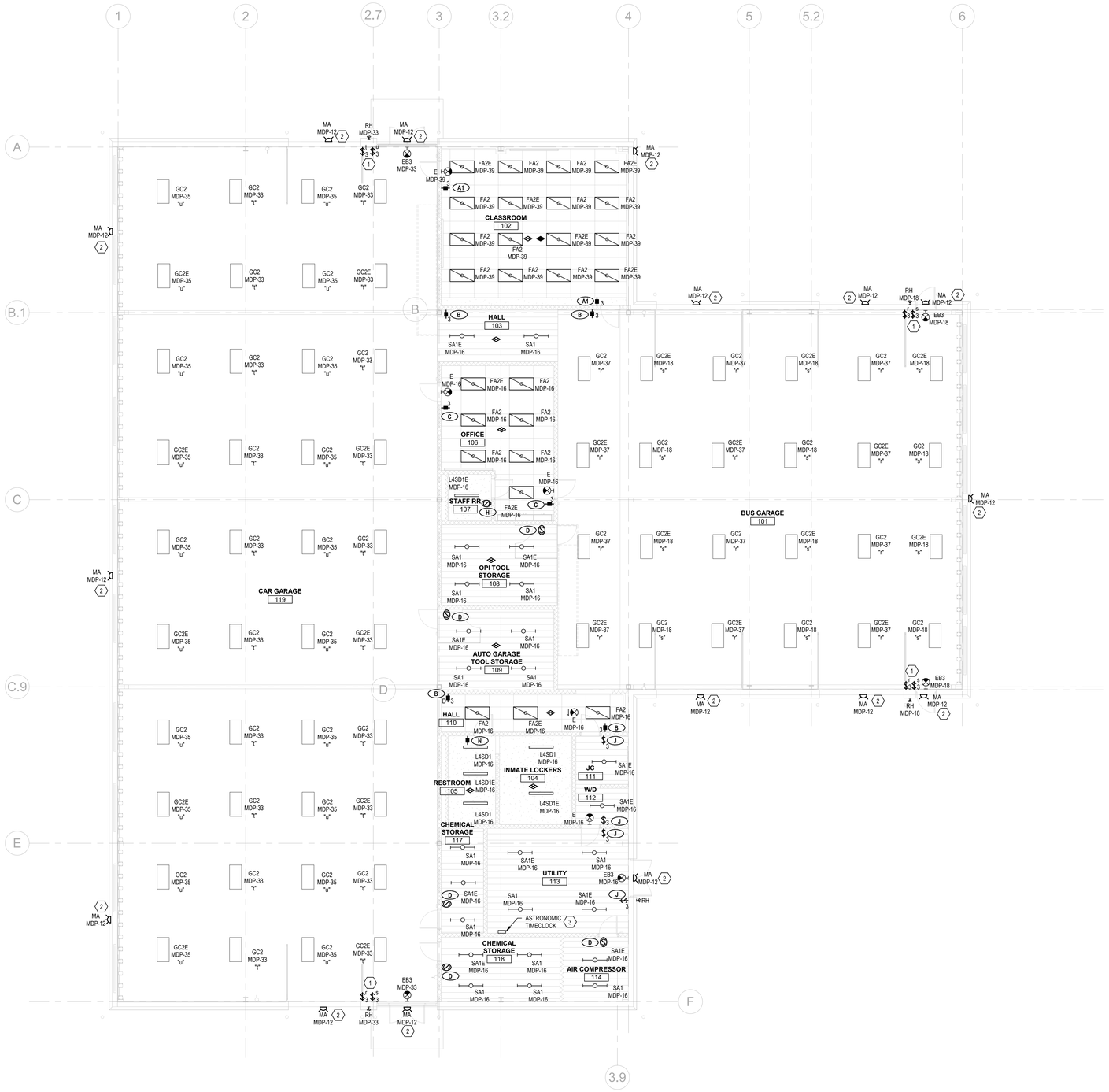
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PROJECT MANAGER	DESIGNER
RD	DP

JOB NO. 2023352.01

E-001

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

GENERAL NOTES

A. GENERAL CONTRACTOR AND SUB-CONTRACTOR SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
B. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND REQUIREMENTS OF THE OWNER. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. E.C. SHALL PROVIDE AN UPDATED, ACCURATE, PRINTED BREAKER IDENTIFICATION CARD INSIDE PANEL DOOR AFTER WORK IS COMPLETED.
G. COORDINATE EXACT LAYOUT OF ALL HIGHBAY LIGHTING WITH MECHANICAL SYSTEMS AND OTHER POSSIBLE OBSTRUCTIONS PRIOR TO ROUGH IN.
H. LIGHT FIXTURES SHALL BE WIRED USING 2#12 & 1#12(G). MINIMUM CONDUIT SIZE (WHERE UTILIZED) SHALL BE 3/4". HOMERUNS EXCEEDING 100ft. SHALL BE WIRED USING 2#10 & 1#10(G).
I. WIRE EXIT SIGNS AND/OR EMERGENCY FIXTURES TO CIRCUIT INDICATED AHEAD OF ALL CONTROLS.
J. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

SHEET KEYNOTES <#>

1. MANUAL ON-OFF 3-WAY LIGHT SWITCH TO CONTROL LIGHT FIXTURES IN THIS AREA.
2. EXTERIOR WALLPACKS SHALL BE ROUTED VIA ASTRONOMIC TIMECLOCK TO ENSURE ALL LIGHTS ARE OFF DURING DAYLIGHT HOURS. DIMMING OCCUPANCY SENSOR INTEGRATED IN EXTERIOR WALLPACKS FOR PARTIAL OFF OPERATION.
3. 4-CHANNEL ASTRONOMIC TIMECLOCK FOR EXTERIOR LIGHTING ON-OFF CONTROL. REFER TO POWER PLAN FOR CIRCUITING INFORMATION.

<#> INTERIOR LIGHTING SCHEMES

TAG	DESCRIPTION
A1	(CLASSROOM) - ROOM SHALL CONTAIN VACANCY SENSOR(S) (QUANTITY PER MANUFACTURER TO COVER SPACE); FULL DIMMING; MANUAL ON; 2-ZONE; LOW-VOLTAGE CONTROL SWITCH WITH CONTROL OF EACH ZONE AND ONE BUTTON FOR ALL 'ON/OFF' CONTROL.
B	(CORRIDOR) - CONNECTED TO OVERALL LIGHTING CONTROL SYSTEM FOR TIME OF DAY OPERATION (QUANTITY PER MANUFACTURER TO COVER SPACE); FULL DIMMING, OCCUPANCY SENSORS FOR AFTER HOURS CONTROL (LAYOUT PER SELECTED MANUFACTURER). PROVIDE FULL OVERRIDE SWITCH IN UTILITY ROOM LOCATION.
C	(OFFICE / SMALL ROOM) - 1-ZONE; FULL DIMMING; VACANCY SENSOR; MANUAL ON OPERATION.
D	(STORAGE ROOM) - ON/OFF; OCCUPANCY SENSOR WALL SWITCH.
H	(INDIVIDUAL RESTROOMS)- OCCUPANCY SENSOR CONTROL
J	(KITCHEN-ELEC-MECH-TECH) - MANUAL SWITCHES ONLY FOR CONTROL (SAFETY).
M	(MEZZANINE) - LOW VOLTAGE ON-OFF SWITCH; MANUAL ON; MEZZANINE SHALL CONTAIN VACANCY SENSORS (QUANTITY PER MANUFACTURER TO COVER SPACE)
N	(LOCKER ROOMS) - 1-ZONE; FULL DIMMING; OCCUPANCY SENSOR FOR AFTER HOUR OPERATION.

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ELECTRICAL - FIRST FLOOR LIGHTING PLAN

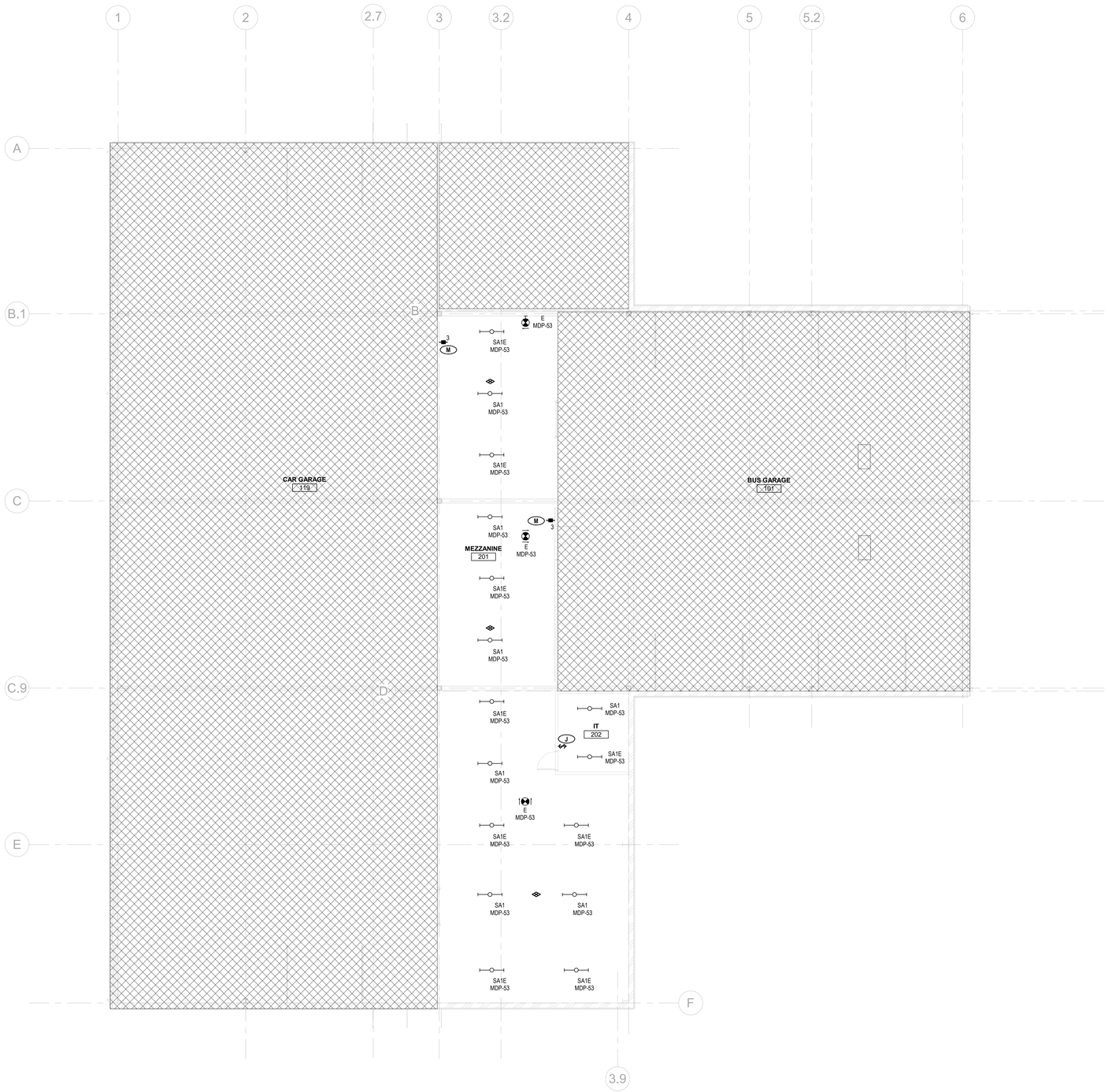
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PROJECT MANAGER	DESIGNER
RD	DP

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

N

GENERAL NOTES

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C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. E.C. SHALL PROVIDE AN UPDATED, ACCURATE, PRINTED BREAKER IDENTIFICATION CARD INSIDE PANEL DOOR AFTER WORK IS COMPLETED.
G. COORDINATE EXACT LAYOUT OF ALL HIGHBAY LIGHTING WITH MECHANICAL SYSTEMS AND OTHER POSSIBLE OBSTRUCTIONS PRIOR TO ROUGH IN.
H. LIGHT FIXTURES SHALL BE WIRED USING 2#12 & 1#12(G). MINIMUM CONDUIT SIZE (WHERE UTILIZED) SHALL BE 3/4". HOMERUNS EXCEEDING 100ft. SHALL BE WIRED USING 2#10 & 1#10(G).
I. WIRE EXIT SIGNS AND/OR EMERGENCY FIXTURES TO CIRCUIT INDICATED AHEAD OF ALL CONTROLS.
J. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

(#) INTERIOR LIGHTING SCHEMES

TAG	DESCRIPTION
A1	(CLASSROOM) - ROOM SHALL CONTAIN VACANCY SENSOR(S) (QUANTITY PER MANUFACTURER TO COVER SPACE); FULL DIMMING; MANUAL ON; 2-ZONE; LOW-VOLTAGE CONTROL SWITCH WITH CONTROL OF EACH ZONE AND ONE BUTTON FOR ALL 'ON/OFF' CONTROL.
B	(CORRIDOR) - CONNECTED TO OVERALL LIGHTING CONTROL SYSTEM FOR TIME OF DAY OPERATION (QUANTITY PER MANUFACTURER TO COVER SPACE); FULL DIMMING; OCCUPANCY SENSORS FOR AFTER HOURS CONTROL (LAYOUT PER SELECTED MANUFACTURER). PROVIDE FULL OVERRIDE SWITCH IN UTILITY ROOM LOCATION.
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M	(MEZZANINE) - LOW VOLTAGE ON-OFF SWITCH; MANUAL ON; MEZZANINE SHALL CONTAIN VACANCY SENSORS (QUANTITY PER MANUFACTURER TO COVER SPACE)
N	(LOCKER ROOMS) - 1-ZONE; FULL DIMMING; OCCUPANCY SENSOR FOR AFTER HOUR OPERATION.

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ELECTRICAL - MEZZANINE LIGHTING PLAN

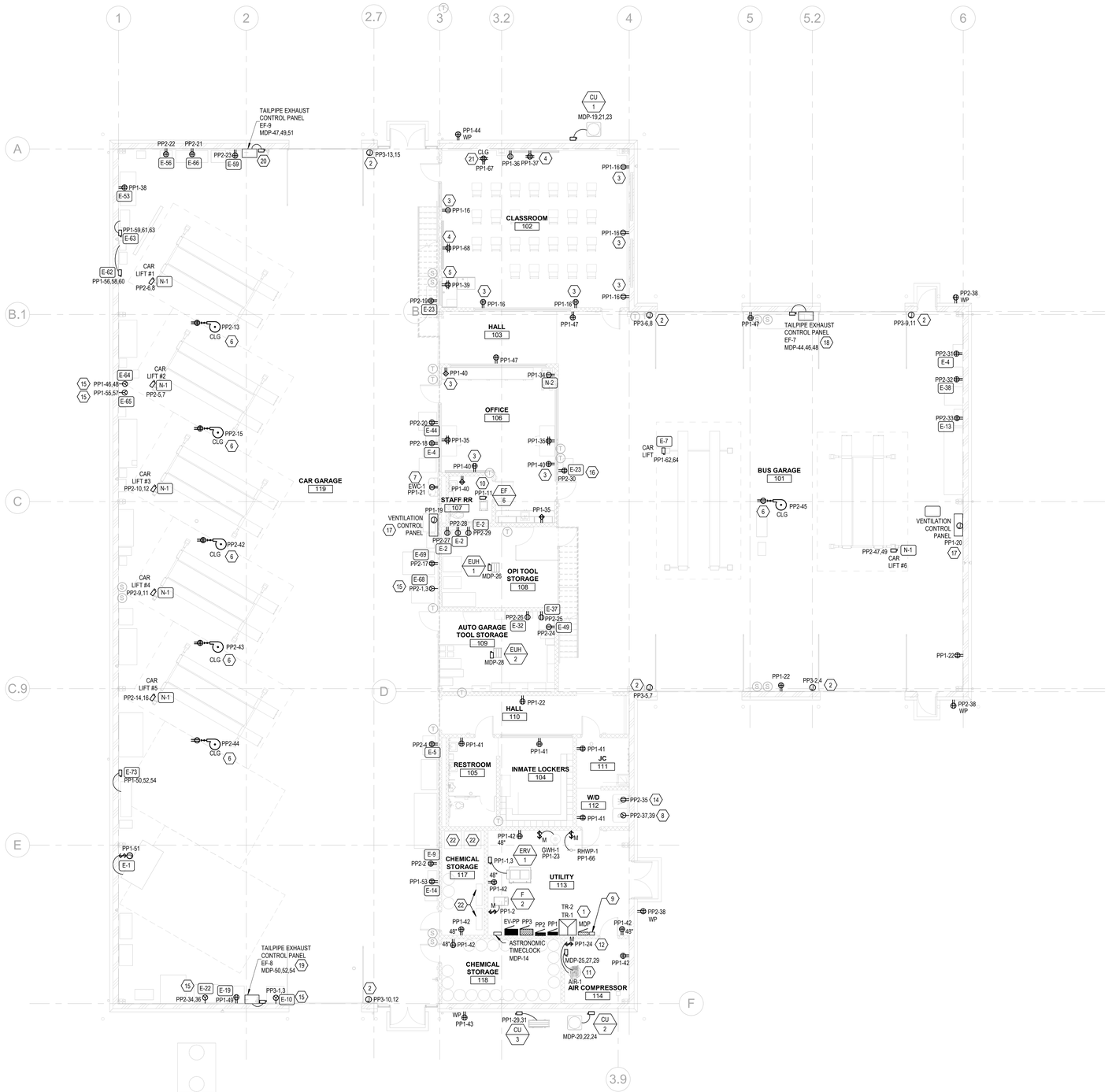
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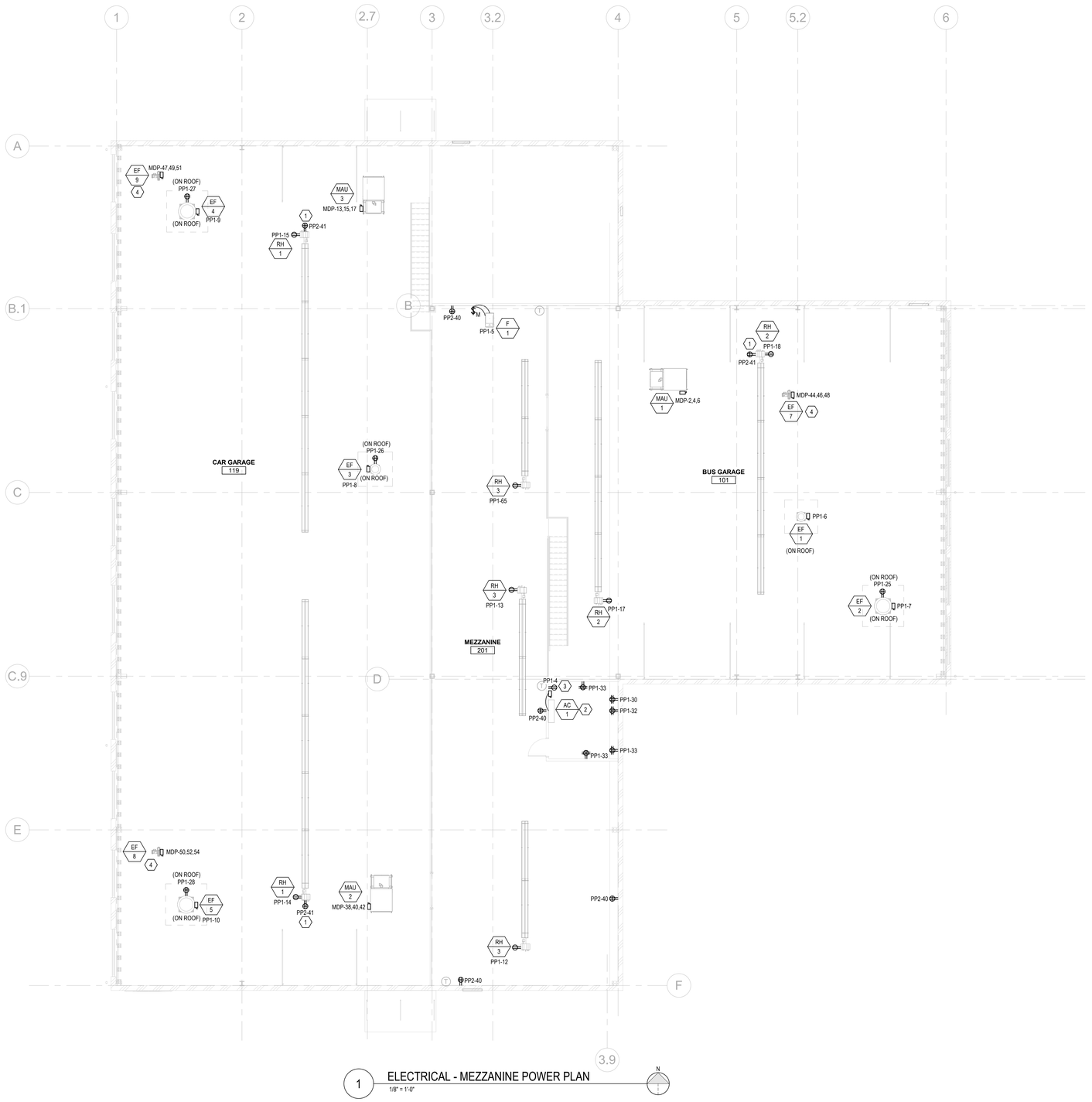
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TAILPIPE EXHAUST CONTROL PANEL EF-9 MDP-47,49,51
CU 1 MDP-19,21,23
CLASSROOM 102
HALL 103
OFFICE 106
CAR GARAGE 119
STAFF RR 107
OPI TOOL STORAGE 108
AUTO GARAGE TOOL STORAGE 109
HALL 110
RESTROOM 105
INMATE LOCKERS 104
JC 111
W/D 112
CHEMICAL STORAGE 117
UTILITY 113
CHEMICAL STORAGE 118
AIR COMPRESSOR 114
BUS GARAGE 101
CAR LIFT #1 N-1 PP2-6,8
CAR LIFT #2 N-1 PP2-5,7
CAR LIFT #3 N-1 PP2-10,12
CAR LIFT #4 N-1 PP2-9,11
CAR LIFT #5 N-1 PP2-14,16
CAR LIFT #6 N-1 PP2-47,49
CAR LIFT E-7 PP1-62,64
TAILPIPE EXHAUST CONTROL PANEL EF-7 MDP-44,46,48
TAILPIPE EXHAUST CONTROL PANEL EF-8 MDP-50,52,54
VENTILATION CONTROL PANEL PP1-19
VENTILATION CONTROL PANEL PP1-20
ASTRONOMIC TIMECLOCK MDP-14
MDP-25,27,29
MDP-20,22,24
MDP-26
EWC-1 PP1-21
EF 6
EUH 1
EUH 2
ERV 1 GWH-1 PP1-23
RHWP-1 PP1-66
F 2
TR-2 TR-1 MDP
AIR-1
PP1-44 WP
PP2-38 WP
PP1-43 WP
PP2-22 PP2-21 PP2-23
PP3-13,15
PP1-36 PP1-37
PP1-38
PP1-59,61,63
PP1-55,56,58,60
PP1-46,48
PP1-55,57
PP1-68
PP1-39
PP1-47
PP3-6,8
PP3-9,11
PP2-13 CLG
PP2-15 CLG
PP2-42 CLG
PP2-43 CLG
PP2-44 CLG
PP2-45 CLG
PP1-51
PP1-50,52,54
PP1-53
PP2-1
PP2-2
PP2-4
PP2-18
PP2-20
PP2-26
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PP2-1,3
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PP2-35
PP2-37,39
PP1-22
PP3-2,4
PP3-5,7
PP1-24
PP1-29,31
PP1-35
PP1-40
PP1-41
PP1-42
PP1-49
PP2-34,36
PP3-1,3
PP3-10,12
PP1-16
PP1-18
PP1-34
PP1-62,64
PP2-47,49
PP1-20
PP1-22
PP2-38
PP1-42
PP1-47
PP1-49
PP1-51
PP1-53
PP1-59,61,63



1 ELECTRICAL - MEZZANINE POWER PLAN

1/8" = 1'-0"

GENERAL NOTES

A. GENERAL CONTRACTOR AND SUB-CONTRACTOR SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
B. COORDINATE WORK WITH OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS AND REQUIREMENTS OF THE OWNER. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. E.C. SHALL PROVIDE AN UPDATED, ACCURATE, PRINTED BREAKER IDENTIFICATION CARD INSIDE PANEL DOOR AFTER WORK IS COMPLETED.
G. E.C. SHALL CONFIRM IN-FIELD POWER RATING AND EQUIPMENT CONNECTION TYPE OF OWNER PROVIDED EQUIPMENT PRIOR TO START OF WORK.
H. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND MOUNT DEVICES AND ELECTRICAL EQUIPMENT IN LOCATIONS AND MOUNTING HEIGHTS SO NOT TO BE IN CONFLICT WITH NEW PIPING AND HVAC.
I. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH ARCHITECT AND OWNER BEFORE ROUGH-IN.
J. CONTRACTOR SHALL INSPECT EACH PIECE OF EXISTING SHOP EQUIPMENT BEFORE ROUGH-IN, AND MATCH/PROVIDE REQUIRED CIRCUIT AND CONNECTION.
K. CONTRACTOR SHALL PROVIDE STRAIN RELIEF AT ALL DROP CORDS TO EQUIPMENT. CONTRACTOR SHALL LOCATE DROP CORD IN FIELD AT BEST POSSIBLE LOCATION SO THAT THE OPERATION OF THE EQUIPMENT, OR MATERIAL, OR PERSON OPERATING EQUIPMENT IS NOT HAMPERED BY THE DROP CORD.

SHEET KEYNOTES

1. PROVIDE A GFCI DUPLEX RECEPTACLE MOUNTED TO CEILING STRUCTURE AT SAME HEIGHT AS RADIANT TUBE HEATER.
2. AC-1 TO BE POWERED VIA CU-4. PROVIDE 2#12 AND #12G IN 3/4" C. FROM CU-4 TO AC-1 VIA MC PROVIDED DISCONNECT SWITCH.
3. PROVIDE A DUPLEX RECEPTACLE FOR CONDENSATE PUMP. COORDINATE EXACT LOCATION IN-FIELD.
4. PROVIDE POWER TO TAILPIPE EXHAUST FAN VIA ASSOCIATED TAILPIPE EXHAUST CONTROL PANEL AS SHOWN ON SHEET E-201.

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DRC-231009 LOCI AUTOMATIVE SCHOOL
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ELECTRICAL - MEZZANINE POWER PLAN

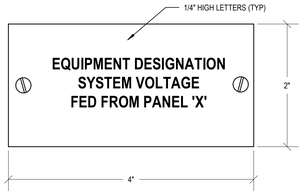
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PROJECT MANAGER	DESIGNER
RD	DP

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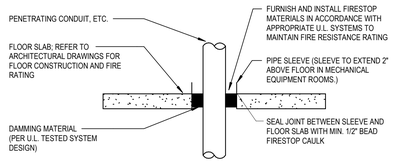


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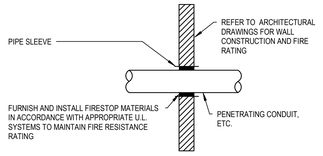
1. PROVIDE LAMOCOID NAMEPLATE ENGRAVED WITH WHITE LETTERS.
2. NAMEPLATE SHALL BE THE FOLLOWING COLORS:
   GREEN - NORMAL POWER ON 480/277 VOLT SYSTEM
   BLACK - NORMAL POWER ON 208/120 VOLT SYSTEM
   RED - EMERGENCY POWER (ALL VOLTAGES)
3. SECURE NAMEPLATE TO EQUIPMENT WITH TWO SHEET METAL SCREWS.
4. PROVIDE A NAMEPLATE FOR EVERY MAJOR ELECTRICAL DEVICE OR ELECTRICAL CONTROLS SUCH AS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, LIGHTING CONTROL PANELS, STARTERS, DISCONNECT SWITCHES, ETC. (AS APPLICABLE).
5. REFER TO SPECIFICATION SECTION 16075 or 260553 FOR FURTHER DESCRIPTION.
6. EQUIPMENT DESIGNATION SHOULD INDICATE NAME OF PANELBOARD OR TYPE OF EQUIPMENT BE SERVED (I.E. "PANEL LPA", "PUMP CWP-1").
7. SYSTEM VOLTAGE SHALL INDICATE VOLTAGE AND PHASE SUCH AS: 480/277V,3Ø, 240/120V,1Ø, ETC.
8. THE THIRD LINE OF TEXT SHALL INDICATE UPSTREAM POWER SOURCE IDENTIFIED BY ITS NAME, SUCH AS "TRANSFORMER T1", PANEL "LPA", ETC.

D1 NAMEPLATE DETAIL

N.T.S.



FLOOR SECTION



WALL SECTION

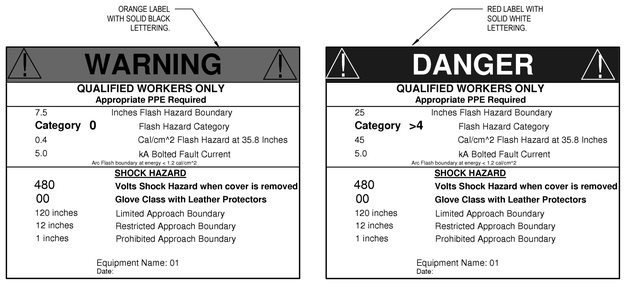
UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES			
SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL < 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL < 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (< 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008

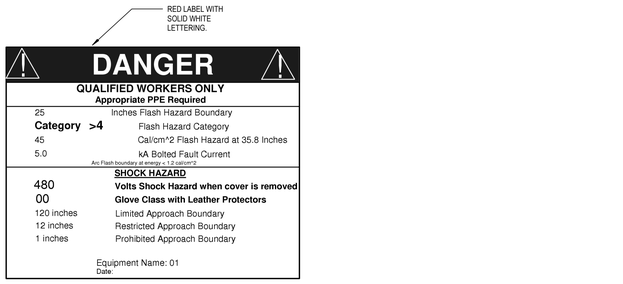
NOTES:

1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

D2 FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION

N.T.S.





'WARNING' ARC FLASH LABEL NOTES:

1. REFER TO EQUIPMENT SPECIFICATION #260553 FOR FURTHER DESCRIPTION.
2. FOR HAZARD/RISK CATEGORY 0,1,2,3,& 4) 0-40 cal/cm², USE ORANGE "WARNING" LABELS WITH SOLID BLACK LETTERS.
3. ALL LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF-STICKING ADHESIVE.
4. ANY ELECTRICAL EQUIPMENT THAT HAS A DOOR SHALL BE PROVIDED WITH A LABEL ON BOTH SIDES OF THE DOOR.

'DANGER' ARC FLASH LABEL NOTES:

1. REFER TO EQUIPMENT SPECIFICATION #260553 FOR FURTHER DESCRIPTION.
2. FOR EQUIPMENT LABELS WITH INCIDENT ENERGY LEVELS >40 cal/cm², USE RED "WARNING" LABELS WITH SOLID WHITE LETTERS.
3. ALL LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF-STICKING ADHESIVE.
4. ANY ELECTRICAL EQUIPMENT THAT HAS A DOOR SHALL BE PROVIDED WITH A LABEL ON BOTH SIDES OF THE DOOR.

D3 ARC FLASH WARNING LABEL

N.T.S.

N

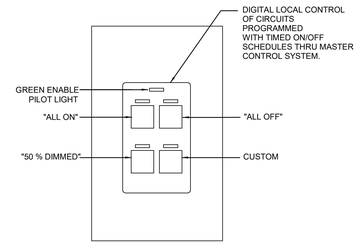
LIGHTING CONTROL CONCEPT

1. LIGHTING CONTROL SYSTEM SHALL BE PROVIDED AS INDICATED IN "LIGHTING CONTROL SCHEMES" PROVIDED ON LIGHTING PLANS.
2. INTERIOR LIGHTING CONTROLS SHALL BE CONTROLLED AS FOLLOWS:
   a. ROOMS SHALL BE CONTROLLED BY 'MANUAL ON' CONTROLS OR TIMECLOCK SCHEDULE. SEE SCHEDULE THIS SHEET.
   b. VACANCY SENSORS SHALL BE PROGRAMMED TO TURN LIGHTS "OFF" AFTER NO MOTION IS DETECTED. VERIFY TIME DELAY WITH OWNER.
   c. INTERIOR LIGHTING CONTROLLED BY TIMECLOCK SHALL BE PROVIDED LOCAL MANUAL OVERRIDE TO TURN LIGHTS "ON/OFF".
   d. ROOM CONTROLLER SHALL BE PROVIDED WITH AN AUXILIARY CONTACT FOR POSSIBLE FUTURE TIE-IN TO BUILDING AUTOMATION SYSTEMS (BAS). THIS CONTACT WOULD ALLOW BAS SYSTEMS TO MONITOR ACTIVITY WITHIN AREA (FOR SECURITY PURPOSES) AND POSSIBLY CONTROL THE HVAC BOXES WITHIN CONTROLLED AREAS.
   e. ALL FIXTURES ARE DIMMABLE.
3. AREAS WITH WALL SWITCH SENSORS SHALL BE 'MANUAL ON'. SENSOR SHALL TURN LIGHTING OFF AFTER A 15 MINUTE PERIOD OF NO MOTION DETECTED, IF NOT TURNED OFF MANUALLY UPON EXIT OF ROOM.
4. ADDITIONAL NOTES:
   a. PROVIDE ADJUSTMENTS TO THE INITIAL LIGHTING CONTROL SETTINGS AS REQUIRED BY THE OWNER FOR A PERIOD OF 12 MONTHS FOLLOWING INITIAL PROGRAMMING OF THE LIGHTING CONTROLS.
   b. REFER TO LIGHTING CONTROLS SPECIFICATION FOR MORE DETAILS.
5. SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, DTC, PHOTOCELLS AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE. INDICATE ALL TIME SCHEDULES AND SWITCH BUTTON ENGRAVING.
6. ALL EXTERIOR WALLPACKS AND PARKING LOT LIGHTS OPTIONED WITH MOTION SENSOR. LIGHTS SHALL BE REDUCED BY AT LEAST 50% OF MAXIMUM LIGHTING POWER WHEN NO ACTIVITY HAS BEEN DETECTED FOR 15 MINUTES.

LIGHTING CONTROL GENERAL NOTES

GENERAL:

1. PROVIDE FACEPLATE TO MATCH MANUFACTURER'S SWITCH COLOR, CONFIGURATION, AND STYLE.
2. E.C. SHALL REVIEW LABELS INDICATED AND CONTROLS TO BE PROGRAMMED WITH G.C. PRIOR TO ORDERING SWITCHES OR ASSOCIATED FACEPLATES.
3. CONTRACTOR SHALL CONFIRM WITH MANUFACTURER OF CONTROLS ALL BACKBOX SIZES REQUIRED TO ACCEPT GANGED CONTROLS PRIOR TO COMMENCING ROUGH-IN.
4. BACKBOXES AND ASSOCIATED CONDUIT(S) FOR THE CONTROLS SHALL BE RECESSED WITHIN WALL.



* CONFIRM LOCATION WITH BUILDING OWNER / FACILITIES MANAGER PRIOR TO ROUGH-IN.

D4 LIGHTING CONTROLS

N.T.S.

OCCUPANCY / VACANCY SENSOR GUIDELINES

OCCUPANCY/VACANCY SENSOR GUIDELINES:

1. E.C. SHALL MEET WITH THE LIGHTING CONTROL AND OCCUPANCY SENSOR MANUFACTURER REPRESENTATIVE(S) FOR A PRE-CONSTRUCTION MEETING TO CONFIRM PROPER INSTALLATION PROCEDURES AND LOCATIONS FOR THE APPROPRIATE OPERATION OF ALL SYSTEM COMPONENTS.
2. LOCATIONS OF SENSORS SHOWN ON FLOOR PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE AS RECOMMENDED BY MANUFACTURER AND SHALL BE COORDINATED WITH OTHER CEILING ELEMENTS SUCH AS DIFFUSERS, LIGHT FIXTURES, PROJECTORS, ETC. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
3. MOUNT SENSORS AT LEAST 6'-0" TO 8'-0" AWAY FROM HVAC DUCTS.
4. ROOMS WITHOUT LOCAL OVERRIDE SWITCHES SHALL HAVE OCCUPANCY SENSORS PLACED SO THERE IS NO DETECTION OUTSIDE THE DOOR TO PREVENT FALSE ACTIVATIONS FROM CORRIDOR MOTION.
5. SENSORS SHALL NOT BE PLACED WHERE THEY CAN COVERED BY ARTWORK, SHELVES, OR OTHER FURNITURE.
6. E.C. SHALL VERIFY THAT THE SENSOR BILL OF MATERIALS COMPLIES WITH THE SENSOR DESIGN AND LAYOUT SPECIFICATIONS.
7. ANY ROOM SHOWN WITH MULTIPLE SENSORS SHALL HAVE THE OCCUPANCY SENSORS INTERWIRED AS REQUIRED SO THAT IF ANY OF THE DETECTORS SENSE MOTION THEN ALL OF THE ASSOCIATED LIGHTING SHALL BE ENERGIZED AND MAY BE TURNED "OFF" WITH LOCAL OVERRIDE SWITCHES PROVIDED WITHIN AREA

LIGHTING CONTROL SCHEDULE

1. INTERIOR LIGHTS SCHEDULE SHALL BE COORDINATED WITH OWNER.
2. ASTRONOMICAL TIMECLOCK SHALL SET TO ENSURE ALL EXTERIOR BUILDING LIGHTS SHALL BE "OFF" DURING DAYLIGHT HOURS.

PRIOR TO ORDERING SYSTEM, E.C. SHALL MEET WITH LIGHTING CONTROL MANUFACTURER REPRESENTATIVE AND OWNER TO VERIFY THE DESIRED SCHEDULE AND CONTROL SEQUENCE FOR BOTH INTERIOR AND EXTERIOR LIGHTING.

NOTE: SWITCHES MUST BE COMPATIBLE WITH BOTH VACANCY & OCCUPANCY SENSORS.

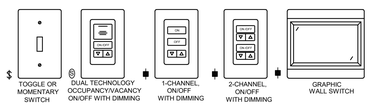
RECEPTACLE CONTROL GENERAL NOTES

1. RECEPTACLES MARKED AS "CONTROLLED" ON POWER PLANS SHALL BE CONTROLLED BY LIGHTING MASTER CONTROL SYSTEM VIA TIME OF DAY OPERATION OR LOCAL OCCUPANCY SENSOR.

DAYLIGHT SENSOR GENERAL NOTE

DAYLIGHT SENSOR GUIDELINES:

1. LOCATIONS OF SENSORS SHOWN ON FLOOR PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE AS RECOMMENDED BY MANUFACTURER AND SHALL BE COORDINATED WITH OTHER CEILING ELEMENTS SUCH AS DIFFUSERS, LIGHT FIXTURES, PROJECTORS, ETC. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. E.C. SHALL VERIFY THAT THE SENSOR BILL OF MATERIALS COMPLIES WITH THE SENSOR DESIGN AND LAYOUT SPECIFICATIONS.



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DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
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ELECTRICAL - DETAILS 1

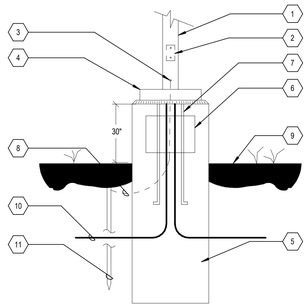
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PROJECT MANAGER	DESIGNER
RD	DP

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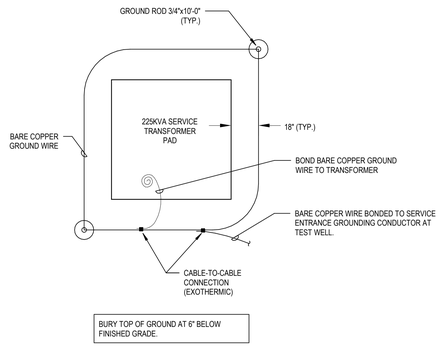


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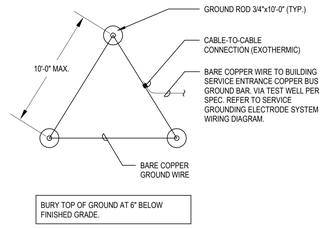
1. POLE
2. HAND HOLE
3. GROUND LUG
4. BOLT COVER
5. REFER TO STRUCTURAL DETAILS FOR INFORMATION ON FOUNDATION.
6. PROVIDE CURVED LID WEATHERPROOF 8"X8X4" JUNCTION BOX WITH DIVIDER EMBEDDED IN FOUNDATION. CARLON EBRC24EBBDIV OR EQUAL. COORDINATE LOCATION IN FOUNDATION WITH REBAR PLACEMENT.
7. ANCHOR BOLTS SUPPLIED WITH POLE
8. #4 CU. BASE GROUND CONDUCTOR
9. GRADE
10. BRANCH CIRCUIT WIRING IN CONDUIT AT 24" (MINIMUM) BELOW GRADE
11. 3/4"x10'-0" CU. CLAD GROUND ROD

D1 RAISED LIGHT POLE BASE DETAIL

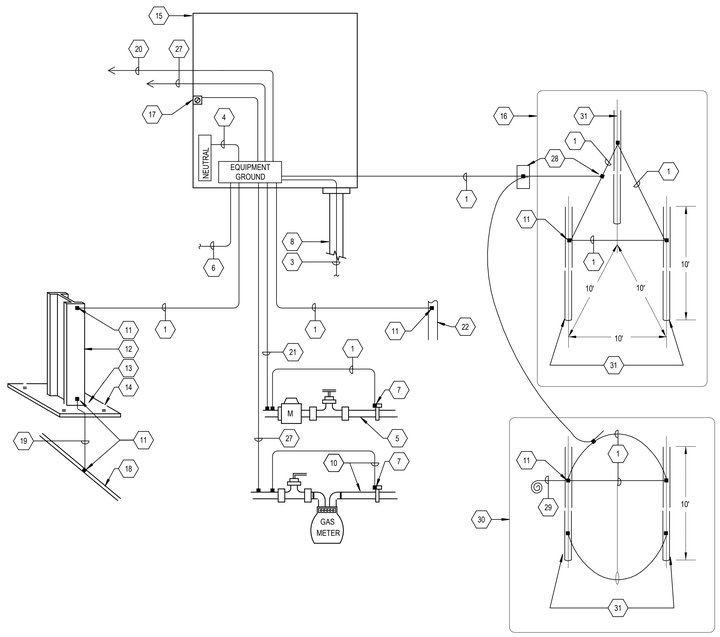
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225KVA SERVICE TRANSFORMER PAD LOOP GROUNDING DETAIL



SERVICE ENTRANCE MADE ELECTRODE GROUND MAT DETAIL

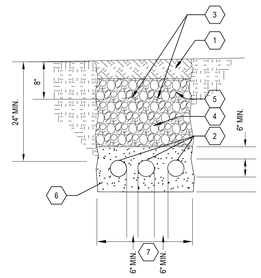


D2 SERVICE GROUNDING ELECTRODE SYSTEM WIRING DIAGRAM

N.T.S.

SERVICE GROUNDING DETAIL KEYNOTES:

1. #1/0 CU AWG GROUNDING ELECTRODE CONDUCTOR(S) SHALL BE CONNECTED TO AN APPROVED GROUNDING ELECTRODE.
2. #1/0 CU AWG GROUNDING JUMPER BONDED TO SYSTEM.
3. SERVICE ENTRANCE CONDUCTORS WITH GROUNDED (NEUTRAL) CONDUCTOR.
4. #1/0 CU AWG MAIN BONDING JUMPER.
5. UNDERGROUND METAL WATER LINE IN DIRECT CONTACT WITH EARTH FOR AT LEAST 10'.
6. #6 SOLID COPPER GROUNDING JUMPER TO BE TERMINATED ON TELEPHONE BACKBOARD.
7. CONNECTION SHALL MADE WITHIN 5' OF BUILDING ENTRANCE.
8. INCOMING SERVICE FROM LOCI TRANSFORMER WITH SECONDARY AND TRANSFORMER GROUNDING DETAIL THIS SHEET. GROUNDED PER UTILITY COMPANY REQUIREMENTS.
9. GROUNDING JUMPER AROUND METER AND ANY NONMETALLIC PIPE SECTIONS.
10. UNDERGROUND METAL GAS LINE IN DIRECT CONTACT WITH EARTH FOR AT LEAST 10'. PROVIDE BONDING JUMPER AROUND GAS METER AND ANY NONMETALLIC PIPE SECTIONS TO BOND METAL PIPING TO GROUNDING SYSTEM PER NEC 250.104(B).
11. CADWELD EXOTHERMIC CONNECTION (TYPICAL).
12. EFFECTIVELY GROUNDED BUILDING STEEL COLUMN PER NEC 250.52.
13. STEEL BASE PLATE.
14. BASE PLATE NUT AND ANCHOR BOLT INTO REINFORCED CONCRETE PIER OR FOOTING. ANCHOR BOLT BONDED TO CONCRETE REINFORCING.
15. MAIN SERVICE DISTRIBUTION PANELBOARD.
16. SERVICE ENTRANCE MADE ELECTRODE GROUND MAT (SEE DETAIL THIS SHEET) 10' X 3/4" COPPER CLAD GROUND RODS IN EARTH. QUANTITY AS REQUIRED TO MEET OR EXCEED NEC 250.56 OR AS OTHERWISE STATED ON THE DRAWINGS AND/OR SPECIFICATIONS WHICHEVER IS MORE RESTRICTIVE. PROVIDE TEST WELL PER SPECIFICATIONS.
17. ENCLOSURE GROUND.
18. CONCRETE-ENCASED ELECTRODE (REBAR) PER NEC 250.52.
19. BOND CONCRETE-ENCASED ELECTRODE (REBAR) TO BUILDING STEEL WITH #4 AWG MINIMUM PER NEC 250.52.
20. TELECOMMUNICATIONS BONDING CONDUCTOR "TBC" BONDED TO TELECOMMUNICATIONS PRIMARY BONDING BUSBAR "PBB". REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR INFORMATION AND REQUIREMENTS REGARDING THE TELECOMMUNICATIONS GROUNDING SYSTEM.
21. #1/0 CU AWG GROUNDING JUMPER TO WATER MAIN SUPPLEMENTAL ELECTRODE PER NEC 250.53.
22. BOND FIRE RISER PIPE TO GROUNDING ELECTRODE PER NEC 250.104.
23. NOT USED.
24. NOT USED.
25. EQUIPMENT GROUND CONDUCTOR SIZED PER NEC TABLE 250.122.
26. GROUNDED (NEUTRAL) CONDUCTOR.
27. BONDING JUMPER TO SYSTEM AND TO OTHER POINTS AND EQUIPMENT AS REQUIRED BY NEC ARTICLE 250.
28. BOND SERVICE ENTRANCE MADE ELECTRODE GROUND MAT TO SERVICE ENTRANCE OVER CURRENT PROTECTIVE DEVICE VIA TEST WELL PER TECHNICAL SPECIFICATIONS.
29. #1/0 AWG GROUNDING ELECTRODE PIGTAIL (±6' LENGTH) FOR CONNECTION TO SERVICE TRANSFORMER GROUNDING PROVISIONS.
30. 225KVA SERVICE TRANSFORMER PAD LOOP GROUNDING (SEE DETAIL THIS SHEET).
31. 10' X 3/4" COPPER CLAD GROUND ROD(S) IN EARTH.

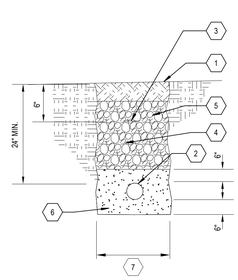


KEYNOTES:

1. TOPSOIL AND SEED OR PAVEMENT, AS PER PLAN.
2. 2-2" PVC SCHEDULE 80 CONDUITS FROM SERVICE TRANSFORMER TO PANEL 'MDP' WITH SECONDARY CONDUCTORS. 1-2" SPARE PVC SCHEDULE 80 CONDUIT WITH NYLON PULLSTRINGS. PROVIDE CONDUITS IN CONCRETE ENCASEMENT WHERE ROUTED UNDER ANY DRIVEWAY, ROADWAY, AND PARKING LOTS AND SHALL EXTEND 5' PAST EACH EDGE.
3. DETECTABLE WARNING TAPE RED WITH BLACK LETTERING INDICATING "ELECTRIC" AND ROUTED ALONG CONDUIT PATH.
4. CLEAN ON-SITE MATERIALS MAY BE USED FOR BACKFILL IN LANDSCAPED AREAS. MATERIALS SHALL BE FREE OF STONES, RUBBLE, AND FROZEN BACKFILL; OTHERWISE, CONTRACTOR SHALL BRING IN CLEAN BACKFILL. COMPACT BACKFILL IN LIFTS.
5. GRANULAR BACKFILL (ODOT ITEM 304 LIMESTONE) TO BE USED UNDER PAVEMENT AND IN RIGHT OF WAY, TO A DEPTH PER ODOT STANDARDS, WITH COMPACTED BACKFILL FOR REMAINDER PER ODOT STANDARDS.
6. SAND BEDDING.
7. EXCAVATE WIDTH OF TRENCH AS REQUIRED. REFER TO ELECTRICAL - SITE PLAN DRAWING ON SHEET ESP-101 FOR ROUTING AND SINGLE LINE DIAGRAM ON SHEET E-603 FOR MORE DETAILS.

D3 ELECTRIC SERVICE TRENCH DETAIL

N.T.S.



KEYNOTES:

1. TOPSOIL AND SEED OR PAVEMENT, AS PER PLAN.
2. 1" PVC SCHEDULE 40 (MINIMUM). SEE ELECTRICAL SITE PLANS FOR SIZE AND QUANTITY OF CONDUITS REQUIRED ALONG TRENCH. IF MULTIPLE CONDUITS ARE ROUTED TOGETHER IN A COMMON TRENCH, PROVIDE 6" (MINIMUM) OF SOIL SEPARATION BETWEEN THE EXTERIOR OF EACH CONDUIT.
3. DETECTABLE WARNING TAPE RED WITH BLACK LETTERING INDICATING "ELECTRIC" AND ROUTED ALONG CONDUIT PATH.
4. CLEAN ON-SITE MATERIALS MAY BE USED FOR BACKFILL IN LANDSCAPED AREAS. MATERIALS SHALL BE FREE OF STONES, RUBBLE, AND FROZEN BACKFILL; OTHERWISE, CONTRACTOR SHALL BRING IN CLEAN BACKFILL. COMPACT BACKFILL IN LIFTS.
5. CLEAN ON-SITE MATERIALS MAY BE USED FOR BACKFILL TO BE USED UNDER PAVEMENT AND IN RIGHT OF WAY, TO DEPTH PER ODOT STANDARDS, WITH COMPACTED BACKFILL FOR REMAINDER PER ODOT STANDARDS.
6. SAND BEDDING.
7. EXCAVATE WIDTH OF TRENCH AS REQUIRED. REFER TO ELECTRICAL - SITE PLAN ON SHEET ESP-101.

D4 MISC. ELECTRIC BRANCH CIRCUIT/FEEDER TRENCH DETAIL

N.T.S.

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REV.	DATE	DESCRIPTION

DRC-23.009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON OH 43140

ELECTRICAL - DETAILS 2

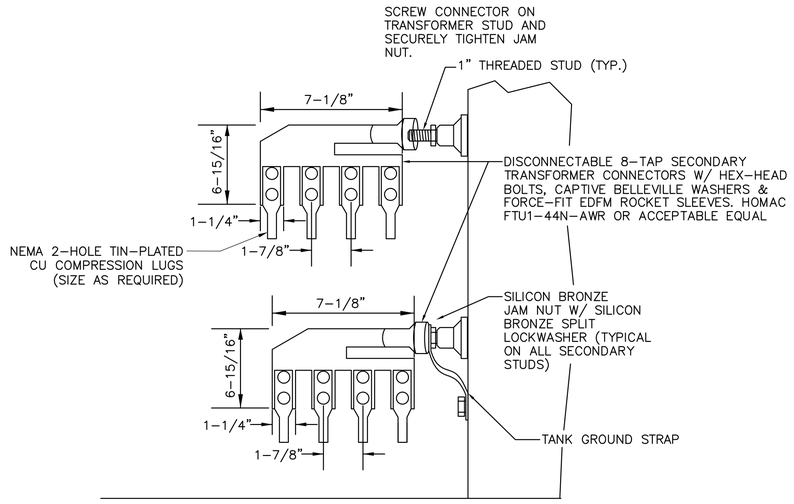
ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	DP

JOB NO. 2023352.01

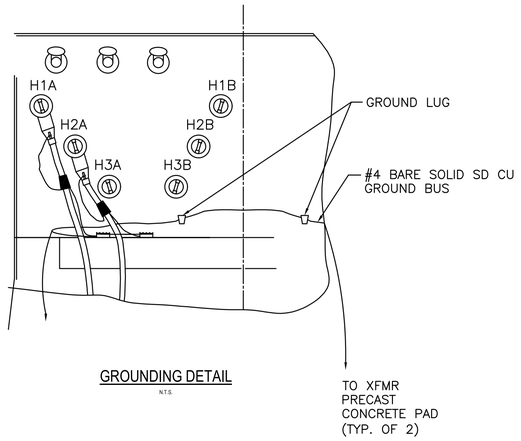
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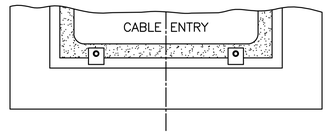
TRANSFORMER SECONDARY CONNECTOR DETAIL

N.T.S.



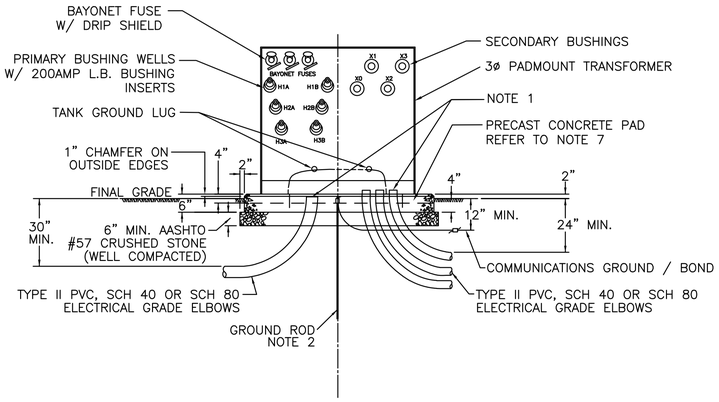
GROUNDING DETAIL

N.T.S.



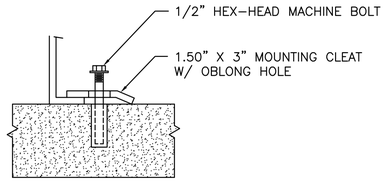
MOUNTING DETAIL

N.T.S.



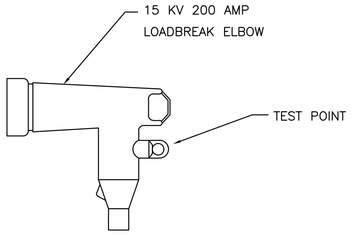
TRANSFORMER / PRECAST CONCRETE PAD INSTALLATION DETAIL

N.T.S.



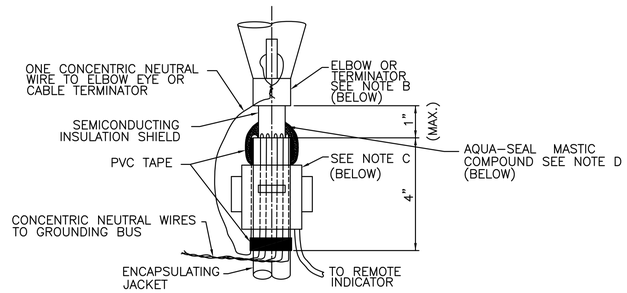
MOUNTING CLIP DETAIL

N.T.S.



INSTALLATION DETAIL FOR 15KV 200 AMP LOADBREAK ELBOW

N.T.S.



TERMINATION DETAIL FOR 15KV JCN CABLE

N.T.S.

NOTES:

1. SECONDARY CONDUITS SHOULD NOT EXTEND MORE THAN 2 INCHES (MAX) ABOVE THE TOP OF FOUNDATION. PRIMARY CONDUITS SHOULD BE CUT OFF 2 INCHES BELOW THE TOP OF FOUNDATION TO ALLOW FOR TERMINATING THE CABLES.
2. FURNISH AND INSTALL ONE 5/8-INCH DIAMETER x 8-FOOT GROUND ROD, GROUNDING CONNECTIONS, AND #6 AWG COPPER COMMUNICATIONS GROUND/BOND WIRE (MIN WIRE REQUIRED – 7 1/2 FEET).
3. BUNDLE THE CONCENTRIC NEUTRALS FOR EACH CABLE AND CONNECT TO THE GROUND BUS WITH CU H-TAP COMPRESSION CONNECTOR AS REQ'D.
4. INSTALL 200A INSULATED CAP ON ALL UNUSED LOADBREAK BUSHINGS.
5. SEAL ALL OPENINGS AROUND CONDUITS WITH GROUT; CAP ALL SPARE CONDUITS TO PRECENT ENTRY OF DIRT, RODENTS, AND ANIMALS INTO TRANSFORMER COMPARTMENT.
6. SEAL ALL CONDUITS ENTERING BUILDING WITH APPROVED FOAM (PER NEC) AT THE BUILDING END TO PREVENT GAS FROM ENTERING BUILDING THROUGH THE CONDUIT.
7. PROVIDE PRECAST CONCRETE PAD (4000 MIN. PSI CONCRETE) WITH APPROPRIATE OPENINGS BASED ON PHYSICAL DIMENSIONS AND WEIGHT OF OUTDOOR RATED, 3-PHASE, PADMOUNT TRANSFORMER.

NOTES:

A. THIS DETAIL IS APPLICABLE FOR ALL 15KV JACKETED CONCENTRIC NEUTRAL CABLE TERMINATED INTO 200 AMP SEPERABLE CONNECTORS (ELBOWS) AND AERIAL CABLE TERMINATORS.

B. FOR COMPLETE CABLE PREPARATION AND ELBOW AND TERMINATOR INSTALLATION DETAILS, CONSULT MANUFACTURER'S WRITTEN INSTRUCTIONS SUPPLIED WITH EACH PRODUCT.

C. MOUNTING LOCATION FOR TYPE "CR" FAULTED CIRCUIT INDICATOR (WHEN REQUIRED).

D. SEAL CABLE JACKET USING AQUA-SEAL MASTIC AND HALF-LAPPED LAYERS OF PVC TAPE OR ACCEPTABLE JACKET SEALING KIT.

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON OH 43140

ELECTRICAL - DETAILS 3

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	DP

JOB NO. 2023352.01

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LIGHTING FIXTURE SCHEDULE

FIXTURE TAG	LAMP	COLOR TEMP.	LUMENS	DESCRIPTION	VOLTAGE	WATTS	MANUFACTURER	CATALOG NUMBER	EQUAL MANUFACTURER	FIXTURE COLOR	MOUNTING	CRI	REMARKS
E	LED	N/A	N/A	UNIVERSAL MOUNT LED EXIT SIGN, RED LETTERS, POLYCARBONATE HOUSING, UNIVERSAL ARROWS AND MOUNTING AND UL 924 LISTED.	MVOLT	2 VA	SURE-LITES	#APC7R	LITHONIA LIGHTING #EXRG / DUAL-LITE	WHITE	SURFACE	N/A	SINGLE OR DOUBLE FACE, WALL OR CEILING MTD AND ARROWS AS INDICATED
EB3	LED	N/A	N/A	SINGLE FACE EXIT SIGN, MAINTENANCE FREE NICKEL-CADIUM , WITH LIGHTS,AND REMOTE HEAD CAPABLE, RED ILLUMINATED LETTERS, POLYCARBONATE HOUSING, UNIVERSAL ARROWS AND MOUNTING AND UL 924 LISTED (TO BE USED WITH FIXTURE TYPE 'RH').	MVOLT	2 VA	SURE-LITES	#APCH7R	LITHONIA LIGHTING #EXRG / DUAL-LITE	WHITE	SURFACE	N/A	
FA2	LED	4000K	4,000L	2 X 4 LED FLAT PANEL, EDGE LIT, 0-10V DIMMABLE	MVOLT	30 VA	METALUX	#24CGTX-42-L940	LITHONIA LIGHTING#CPX-2X4 / COLUMBIA LIGHTING #CBT24	WHITE	RECESSED	90 CRI	
FA2E	LED	4000K	4,000L	2 X 4 LED FLAT PANEL, EDGE LIT, 0-10V DIMMABLE W/ EMERGENCY BATTERY BACKUP	MVOLT	30 VA	METALUX	#24CGTX-42-EL14W-L940	LITHONIA LIGHTING#CPX-2X4 / COLUMBIA LIGHTING #CBT24	WHITE	RECESSED	90 CRI	
GC2	LED	4000K	18,000L	2 X 4 LED HIGH-BAY, 0-10V DIMMABLE. VERIFY MOUNTING TYPE WITH MANUFACTUER'S RECOMMENDATIONS.	MVOLT	105 VA	METALUX	#OHBL-18-SE-MCL-UNV-L940-CD-U	LITHONIA LIGHTING #IBE / ILP,INC #PHB	WHITE	SUSPENDED	90 CRI	PROVIDE MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. SUSPEND AT 17'-0" AFF.
GC2E	LED	4000K	18,000L	2 X 4 LED HIGH-BAY, 0-10V DIMMABLE W/ EMERGENCY BATTERY BATTERY PACK INSTALLED. VERIFY MOUNTING TYPE WITH MANUFACTUER'S RECOMMENDATIONS.	MVOLT	105 VA	METALUX	#OHBL-18-SE-MCL-UNV-L940-EL20W-CD-U	LITHONIA LIGHTING #IBE / ILP,INC #PHB	WHITE	SUSPENDED	90 CRI	PROVIDE MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. SUSPEND AT 17'-0" AFF.
L4SD1	LED	4000K	795L / FT	4" LED LINEAR, 4'-0" LENGTH, 0-10V DIMMING, GYPSUM BOARD MOUNTING	MVOLT	28 VA	NEO-RAY	#S124DS-C795D-940-JB-4FO-1-U-DD-F-W	MARK ARCHITECTURAL LIGHTING #S4SD / LITE CONTROL #4L-S-D	WHITE	SURFACE	90 CRI	
L4SD1E	LED	4000K	795L / FT	4" LED LINEAR, 4'-0" LENGTH, 0-10V DIMMING, GYPSUM BOARD MOUNTING, EMERGENCY BATTERY BACKUP	MVOLT	28 VA	NEO-RAY	#S124DS-C795D-940-JB-4FO-1-B2-U-D D-F-W	MARK ARCHITECTURAL LIGHTING #S4SD / LITE CONTROL #4L-S-D	WHITE	SURFACE	90 CRI	
MA	LED	4000K	4,559L	EXTERIOR, LED WALL-PACK, TYPE T4FT DISTRIBUTION, WET-LISTED, BATTERY PACK WITH BACKBOX, COLD WEATHER RATED. OPTIONED WITH DIMMING OCCUPANCY SENSOR W/ INTEGRAL PHOTOCELL.	MVOLT	35 VA	McGRAW-EDISON	#ISW-SA1C-740-U-T4FT-XX-XHSSCBP -SPB2	LITHONIA LIGHTING #WDGE LED / HUBBEL OUTDOOR LIGHTING - #TRP2	CONFIRM COLOR WITH ARCHITECT.	WALL	70 CRI	MOUNT CENTERED ABOVE DOOR(S) OR AS OTHERWISE NOTED ON THE FLOOR PLANS.
RH	LED	N/A	N/A	EMERGENCY EGRESS REMOTE HEAD LIGHT, EXTERIOR RATED, THERMOPLASTIC HOUSING, SELF-DIAGNOSTIC, MAINTENANCE FREE NICKEL-CADIUM BATTERY, 90 MINS OF EMERGENCY POWER. (TO BE USED WITH FIXTURE TYPE 'EB3').	MVOLT	2 VA	SURE-LITES	#APWR2	LITHONIA LIGHTING #ERE / DUAL-LITE #EVO SERIES	WHITE	WALL	N/A	
SA1	LED	4000K	4,269L	4'-0" STRIP LIGHT, 0-10V DIMMING	MVOLT	31 VA	METALUX	#4SNLED-LD5-41SL-SLW-UNV-L940-C D1	LITHONIA LIGHTING #CSS / COLUMBIA LIGHTING# MPS4	WHITE	SUSPENDED	90 CRI	PROVIDE MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
SA1E	LED	4000K	4,269L	4'-0" STRIP LIGHT, 0-10V DIMMING W/ EMERGENCY BATTERY PACK	MVOLT	31 VA	METALUX	#4SNLED-LD5-41SL-SLW-UNV-EL14W -L940-CD1	LITHONIA LIGHTING #CSS / COLUMBIA LIGHTING# MPS4	WHITE	SUSPENDED	90 CRI	PROVIDE MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.
Z -SITE POLE [ROUND]	N/A	N/A	N/A	EXTERIOR, 4" ROUND, ALUMINUM , 20' AGL SITE POLE, WITH VIBRATION DAMPER, AND BASE COVERS.	MVOLT	0 VA	LITHONIA LIGHTING #RSA	#RSA 20 XX XX	COOPER#RSA-4 / EXO #RSA-H	CONFIRM COLOR WITH ARCHITECT.	POLE BASE		MOUNTED ON POLE BASE. REFER TO DETAIL ON SHEET E-502.
ZA	LED	4000K	13968L	EXTERIOR, SINGLE HEAD AREA LUMINAIRE, TYPE 4 MEDIUM DISTRIBUTION. OPTIONED WITH MOTION SENSOR WITH INTEGRAL PHOTOCELL.	MVOLT	102 VA	LITHONIA LIGHTING	#DSX1 LED P3 40K 70 CRI T4M MVOLT RPA PIR	MCGRAW EDISON #GALN / BEACON #RAR	CONFIRM COLOR WITH ARCHITECT.	POLE	70 CRI	REFER TO SITE POLE FOR ADDITIONOAL INFORMATION. MOTION SENSOR SUITABLE FOR 8' TO 40' MOUNTING HEIGHT. VERIFY EXACT HEIGHT IN-FIELD PRIOR TO INSTALLATION.
ZA-2	LED	4000K	13,968L / LAMP	EXTERIOR, TWIN HEAD AREA LUMINAIRE, TYPE 4 MEDIUM DISTRIBUTION. OPTIONED WITH MOTION SENSOR WITH INTEGRAL PHOTOCELL.	MVOLT	204 VA	LITHONIA LIGHTING	#DSX1 LED P3 40K 70 CRI T4M MVOLT RPA PIR	MCGRAW EDISON #GALN / BEACON #RAR	CONFIRM COLOR WITH ARCHITECT.	POLE	70 CRI	REFER TO SITE POLE FOR ADDITIONOAL INFORMATION. MOTION SENSOR SUITABLE FOR 8' TO 40' MOUNTING HEIGHT. VERIFY EXACT HEIGHT IN-FIELD PRIOR TO INSTALLATION.

LIGHTING FIXTURE SCHEDULE NOTES

1. E.C. SHALL VERIFY CEILING TYPES AND DETERMINE PROPER MOUNTING HARDWARE PRIOR TO ORDERING FIXTURES.
2. BATTERIES FOR SELF-CONTAINED EXIT SIGNS, EMERGENCY EGRESS LIGHTING FIXTURES, REMOTE EMERGENCY LIGHT UNIT, OR EMERGENCY LIGHT UNITS SHALL BE SIZED TO PROVIDE A MINIMUM OF 90 MINUTES OF ILLUMINATION.

MECHANICAL EQUIPMENT SCHEDULE

NOTES:
1. E.C. SHALL COORDINATE ALL HVAC OVERCURRENT PROTECTION SIZES WITH MECHANICAL CONTRACTOR AND FINAL UNIT SELECTIONS.
2. ALL INTERIOR DISCONNECT SWITCHES SHALL BE IN NEMA 1 ENCLOSURES AND ALL EXTERIOR DISCONNECTS SHALL BE IN NEMA 3R ENCLOSURES, UNLESS OTHERWISE NOTED.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CIRCUITS, CONDUIT, WIRE, CIRCUIT BREAKERS, DISCONNECTS, STARTERS, CONTROL WIRING, AND HARDWARE FOUND IN SCHEDULE, UNLESS OTHERWISE NOTED, FOR A COMPLETE AND FUNCTIONA...

EQUIPMENT TAG	POWER REQUIREMENTS				VOLTAGE	PHASE	BREAKER SIZE	CIRCUIT & WIRE SIZE	DISCONNECT	REMARKS
	HP	KW	MCA	FLA						
AIR COMPRESSOR										
AIR-1	15				480 V	3	30/3	3-#10, 1-#10G, 3/4"C	NON-FUSED DISCONNECT SWITCH.	EC TO PROVIDE 120V 20A/1P MANUAL MOTOR STARTER SWITCH FOR AIR DRYER POWER.
CONDENSING UNIT										
CU-1			8.60 A		480 V	3	15/3	3-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	
CU-2			6.80 A		480 V	3	15/3	3-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	
CU-3			9.10 A		208 V	1	15/2	2-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	POWER AC-1 THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING IN 3/4" C
ELECTRIC UNIT HEATER										
EUH-1		4.00			277 V	1	20/1	2-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	
EUH-2		4.00			277 V	1	20/1	2-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	
ENERGY RECOVERY VENTILATOR										
ERV-1			6.10 A		208 V	1	15/2	2-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH	
EXHAUST FAN										
EF-1			2.00 A		120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	
EF-2	0.75				120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	
EF-3			3.00 A		120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	
EF-4	0.75				120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	
EF-5	0.75				120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	
EF-6		0.02			120 V	1	20/1	2-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH, INTERLOCK WITH LOCAL LIGHT SWITCH.	
EF-7	2				480 V	3	20/3	3-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	ROUTE WIRING THROUGH MANUFACTURER PROVIDED TAILPIPE EXHAUST CONTROL PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
EF-8	5				480 V	3	20/3	3-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	ROUTE WIRING THROUGH MANUFACTURER PROVIDED TAILPIPE EXHAUST CONTROL PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
EF-9	3				480 V	3	20/3	3-#12, 1-#12G, 3/4"C	FACTORY MOUNTED DISCONNECT SWITCH	ROUTE WIRING THROUGH MANUFACTURER PROVIDED TAILPIPE EXHAUST CONTROL PANEL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
MAKE UP AIR UNIT										
MAU-1			4.84 A		480 V	3	15/3	3-#12, 1-#12G, 3/4"C	UNIT MOUNTED DISCONNECT SWITCH	
MAU-2			4.84 A		480 V	3	15/3	3-#12, 1-#12G, 3/4"C	UNIT MOUNTED DISCONNECT SWITCH	
MAU-3			4.84 A		480 V	3	15/3	3-#12, 1-#12G, 3/4"C	UNIT MOUNTED DISCONNECT SWITCH	
NATURAL GAS FIRED WATER HEATER										
GWH-1				5.00 A	120 V	1	20/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 20A/1P MANUAL MOTOR STARTER SWITCH	
NATURAL GAS FURNACE										
F-1			10.30 A		120 V	1	15/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 20A/1P MANUAL MOTOR STARTER SWITCH	
F-2			11.30 A		120 V	1	15/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 20A/1P MANUAL MOTOR STARTER SWITCH	
RADIANT TUBE HEATER										
RH-1			4.80 A		120 V	1	20/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 120V OUTLET NEAR BURNER BOX	
RH-2			4.80 A		120 V	1	20/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 120V OUTLET NEAR BURNER BOX	
RH-3			4.80 A		120 V	1	20/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 120V OUTLET NEAR BURNER BOX	
RECIRCULATING PUMP										
RHWP-1		0.04			120 V	1	20/1	2-#12, 1-#12G, 3/4"C	EC TO PROVIDE 20A/1P MANUAL MOTOR STARTER SWITCH	
SPLIT SYSTEM INDOOR UNIT										
AC-1					208 V	1	20/2	2-#12, 1-#12G, 3/4"C	MC PROVIDED DISCONNECT SWITCH. EC TO INSTALL.	POWERED VIA CU-3 INDOOR UNIT.

EQUIPMENT SCHEDULE

E-XX N-XX

EQUIPMENT TAG	DESCRIPTION	POWER REQUIREMENTS HP	POWER REQUIREMENTS KW	VOLTAGE	BREAKER SIZE	PANEL	CIRCUIT NUMBER	CIRCUIT & WIRE SIZE	DISCONNECT	REMARKS
E-1	ALIGNMENT MACHINE		1.20	120 V	20/1	PP1	51	2-#12, 1-#12G, 3/4"C	20A/1P MOTOR STARTER SWITCH	
E-2	BATTERY CHARGER		0.84	120 V	20/1	PP2	27	2-#12, 1-#12G, 3/4"C		
E-2	BATTERY CHARGER		0.84	120 V	20/1	PP2	28	2-#12, 1-#12G, 3/4"C		
E-2	BATTERY CHARGER		0.84	120 V	20/1	PP2	29	2-#12, 1-#12G, 3/4"C		
E-4	BLACK DRUM FAN	0.3		120 V	20/1	PP2	18	2-#12, 1-#12G, 3/4"C		
E-4	BLACK DRUM FAN	0.3		120 V	20/1	PP2	31	2-#12, 1-#12G, 3/4"C		
E-5	BRAKE LATHE		0.40	120 V	20/1	PP2	4	2-#12, 1-#12G, 3/4"C		
E-7	4-POST CAR LIFT	2		208 V	30/2	PP1	62,64	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
E-9	DRILL PRESS		1.60	120 V	20/1	PP2	2	2-#12, 1-#12G, 3/4"C		
E-10	FILTER CRUSHER		3.60	240 V	20/2	PP3	1,3	2-#12, 1-#12G, 3/4"C		PROVIDE HUBBELL 2320 RECEPTACLE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
E-13	FORKLIFT CHARGER		0.84	120 V	20/1	PP2	33	2-#12, 1-#12G, 3/4"C		
E-14	GRINDER		1.00	120 V	20/1	PP1	53	2-#12, 1-#12G, 3/4"C		
E-19	TIRE MACHINE		1.50	120 V	20/1	PP1	49	2-#12, 1-#12G, 3/4"C		
E-22	WHEEL BALANCER		3.95	208 V	30/2	PP2	34,36	2-#10, 1-#10G, 3/4"C		PROVIDE HUBBELL 2320 RECEPTACLE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
E-23	WHITE DRUM FAN	0.3		120 V	20/1	PP2	19	2-#12, 1-#12G, 3/4"C		
E-23	WHITE DRUM FAN	0.3		120 V	20/1	PP2	30	2-#12, 1-#12G, 3/4"C		
E-32	BATTERY CHARGER		0.84	120 V	20/1	PP2	26	2-#12, 1-#12G, 3/4"C		
E-37	BATTERY CHARGER		0.84	120 V	20/1	PP2	25	2-#12, 1-#12G, 3/4"C		
E-38	FAN	0.3		120 V	20/1	PP2	32	2-#12, 1-#12G, 3/4"C		
E-44	BATTERY CHARGER		0.84	120 V	20/1	PP2	20	2-#12, 1-#12G, 3/4"C		
E-49	AC MACHINE		0.84	120 V	20/1	PP2	24	2-#12, 1-#12G, 3/4"C		
E-53	ALIGNMENT MACHINE SYSTEM	0.3		120 V	20/1	PP1	38	2-#12, 1-#12G, 3/4"C		
E-56	FAN	0.3		120 V	20/1	PP2	22	2-#12, 1-#12G, 3/4"C		
E-59	GRINDER		1.00	120 V	20/1	PP2	23	2-#12, 1-#12G, 3/4"C		
E-62	AIR COMPRESSOR	5		208 V	30/3	PP1	56,58,60	3-#10, 1-#10G, 3/4"C	30A/3P NON-FUSED DISCONNECT SWITCH	
E-63	COMPRESSOR	5		208 V	30/3	PP1	59,61,63	3-#10, 1-#10G, 3/4"C	30A/3P NON-FUSED DISCONNECT SWITCH	
E-64	WELDER		3.95	208 V	30/2	PP1	46,48	2-#10, 1-#10G, 3/4"C		PROVIDE HUBBELL 2320 RECEPTACLE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
E-65	WELDER		3.95	208 V	30/2	PP1	55,57	2-#10, 1-#10G, 3/4"C		PROVIDE HUBBELL 2320 RECEPTACLE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
E-66	DRILL PRESS		1.60	120 V	20/1	PP2	21	2-#12, 1-#12G, 3/4"C		
E-68	WHEEL BALANCER		3.95	208 V	30/2	PP2	1,3	2-#10, 1-#10G, 3/4"C		PROVIDE HUBBELL 2320 RECEPTACLE. E.C. SHALL VERIFY EXACT POWER REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
E-69	RIM CLAMP		1.44	120 V	20/1	PP2	17	2-#12, 1-#12G, 3/4"C		
E-73	COMPRESSOR	5		208 V	30/3	PP1	50,52,54	3-#10, 1-#10G, 3/4"C	30A/3P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	6,8	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	5,7	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	10,12	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	9,11	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	14,16	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-1	4-POST CAR LIFT	2		208 V	30/2	PP2	47,49	2-#10, 1-#10G, 3/4"C	30A/2P NON-FUSED DISCONNECT SWITCH	
N-2	COPIER		1.20	120 V	20/1	PP1	34	2-#12, 1-#12G, 3/4"C		

NOTES:
A. E-XX INDICATES EXISTING RELOCATED EQUIPMENT. CONTRACTOR TO CONFIRM EXACT POWER REQUIREMENTS OF EQUIPMENT ON-SITE PRIOR TO ELECTRICAL ROUGH-IN.

B. N-XX INDICATES NEW EQUIPMENT. CONTRACTOR TO CONFIRM EXACT POWER REQUIREMENTS OF EQUIPMENT ON-SITE PRIOR TO ELECTRICAL ROUGH-IN.

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON OH 43140

ELECTRICAL - SCHEDULES

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	DP

JOB NO. 2023352.01

E-601

9/11/2025 11:27:04 AM

BRANCH PANEL: MDP

LOCATION: UTILITY 113
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22 KAIC
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1				19640	1073								2	
	3	112.5 KVA TR-1 XFMR	175 A	3			23142	1073			3	15 A	MAU-1	4	
	5								19339	1073				6	
	7				6700	0								8	
	9	MINI-POWER ZONE PANEL EV-PP	50 A	3			3350	0			2	70 A	MINI-POWER ZONE PANEL PP3	10	
	11								3350	560	1	20 A	EXTERIOR WALLPACKS	12	
	13				1073	180					1	20 A	ASTRONIMIC TIMECLOCK	14	
	15	MAU-3	15 A	3			1073	1253			1	20 A	BOH LTG	16	
	17								1073	1268	1	20 A	BUS GARAGE 101 LTG	18	
	19				1907	1508								20	
	21	CU-1	15 A	3			1907	1508			3	15 A	CU-2	22	
	23								1907	1508				24	
	25				5820	4000					1	20 A	EUH-1	26	
	27	15HP AIR COMPRESSOR AIR-1	30 A	3			5820	4000			1	20 A	EUH-2	28	
	29								5820	600	1	20 A	PARKING LOT SOUTH LIGHTING	30	
	31	PARKING LOT NORTH LIGHTING	20 A	1	600	0					1	20 A	SPARE	32	
	33	CAR GARAGE 119 LTG	20 A	1			2108	0			1	20 A	SPARE	34	
	35	CAR GARAGE 119 LTG	20 A	1					2100	0	1	20 A	SPARE	36	
	37	BUS GARAGE 101 LTG	20 A	1	1260	1073								38	
	39	CLASSROOM LTG	20 A	1			482	1073			3	15 A	MAU-2	40	
	41								15727	1073				42	
	43	75 KVA TR-2 XFMR	125 A	3	15910	942								44	
	45						15500	942			3	20 A	EF-7 VIA TAILPIPE EXHAUST CONTROL PANEL	46	
	47								1330	942				48	
	49	EF-9 VIA TAILPIPE EXHAUST CONTROL PANEL	20 A	3	1330	2106								50	
	51						1330	2106			3	20 A	EF-8 VIA TAILPIPE EXHAUST CONTROL PANEL	52	
	53	MEZZANINE LTG	20 A	1					502	2106				54	
	55	SPARE	20 A	1	0	--					1	--	SPACE	56	
	57	SPARE	20 A	1			0	--			1	--	SPACE	58	
	59	SPARE	20 A	1					0	--	1	--	SPACE	60	
	61	SPARE	20 A	1	0	--					1	--	SPACE	62	
	63	SPARE	20 A	1			0	--			1	--	SPACE	64	
	65	SPARE	20 A	1					0	--	1	--	SPACE	66	
	67				0	0								68	
	69	CUSTOMER OWNED ELECTRIC METER	20 A	3			0	0			3	20 A	SURGE PROTECTIVE DEVICE	70	
	71								0	0				72	
			TOTAL LOAD:		65122 VA		66666 VA		60277 VA						
			TOTAL AMPS:		238 A		243 A		218 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	72436 VA	100.00%	72436 VA		
Lighting	9533 VA	125.00%	11916 VA	**TOTAL CONN. LOAD:**	192066 VA
Other	0 VA	100.00%	0 VA	**TOTAL DEMAND LOAD:**	188089 VA
Power	72777 VA	100.00%	72777 VA	**TOTAL CONN. CURRENT:**	231 A
Receptacle	22720 VA	72.01%	16360 VA	**TOTAL DEMAND CURRENT:**	226 A
Spare	14600 VA	100.00%	14600 VA		

BRANCH PANEL: PP1

LOCATION: UTILITY 113
SUPPLY FROM: TR1 112.5KVA, 277 V/480 V,...
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22 KAIC
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
	1	ERV-1	15 A	2	508	1085					1	15 A	FURNACE F-2	2	
	3						508	180			1	20 A	CONDENSATE PUMP	4	
	5	FURNACE F-1	15 A	1					989	192	1	20 A	EF-1	6	
	7	EF-2	20 A	1	1656	288					1	20 A	EF-3	8	
	9	EF-4	20 A	1			1656	1656			1	20 A	EF-5	10	
	11	EF-6	20 A	1					21	461	1	20 A	RH-3A	12	
	13	RH-3B	20 A	1	461	461					1	20 A	RH-1A	14	
	15	RH-1B	20 A	1			461	1080			1	20 A	CLASSROOM CONTROLLED RECEPTS	16	
	17	RH-2A	20 A	1					461	461	1	20 A	RH-2B	18	
	19	VENTILATION CONTROL PNL CAR...	20 A	1	240	240					1	20 A	VENTILATION CONTROL PNL BUS...	20	
1	21	EWC-1 WATER COOLER CAR GARAGE	20 A	1			600	540			1	20 A	HALL 110 AND BUS GARAGE CONV...	22	
	23	GWH-1	20 A	1					600	600	1	20 A	AIR DRYER FOR AIR COMP. AIR-1	24	
	25	ROOFTOP RECEPTACLE EF-1	20 A	1	180	180					1	20 A	ROOFTOP RECEPTACLE EF-3	26	
	27	ROOFTOP RECEPTACLE EF-4	20 A	1			180	180			1	20 A	ROOFTOP RECEPTACLE EF-5	28	
	29	CU-3 AND AC-1	15 A	2					757	1000	1	20 A	IT RACK RECEPT #1	30	
	31				757	1000					1	20 A	IT RACK RECEPT #2	32	
	33	IT QUAD RECEPTS	20 A	1			1080	1200			1	20 A	OFFICE COPIER RECEPT	34	
	35	OFFICE COMPUTER RECEPTS	20 A	1					1780	180	1	20 A	CLASSROOM CONV. RECEPTS	36	
	37	CLASSROOM SMART MONITOR -...	20 A	1	500	0					1	20 A	E-53 ALIGNMENT MACHINE	38	
	39	CLASSROOM TEACHER CABINET	20 A	1			200	720			1	20 A	OFFICE CONTROLLED RECPETS	40	
	41	LOCKERS. JC, W/D CONV. RECEPTS	20 A	1					720	1080	1	20 A	STORAGE AND UTILITY CONV....	42	
	43	OUTDOOR RECEPT SOUTH	20 A	1	180	180					1	20 A	OUTDOOR RECEPT NORTH	44	
2	45	FACP	20 A	1			360	1976			2	30 A	E-64 WELDER	46	1
	47	HALL 103 AND BUS GARAGE CONV....	20 A	1					540	1976				48	
	49	E-19 TIRE MACHINE	20 A	1	1500	2005								50	
	51	E-1 ALIGNMENT MACHINE	20 A	1			1200	2005			3	30 A	E-73 AIR COMPRESSOR	52	
	53	E-14 GRINDER	20 A	1					1000	2005				54	
1	55	E-65 WELDER	30 A	2	1976	2005								56	
	57						1976	2005			3	30 A	E-62 AIR COMPRESSOR	58	
	59								2005	2005				60	
	61	E-63 AIR COMPRESSOR	30 A	3	2005	1373					2	30 A	2HP CAR LIFT (BUS GARAGE)	62	
	63						2005	1373						64	
	65	RH-3C	20 A	1					461	44	1	20 A	RHWP-1	66	
	67	OVERHEAD MONITOR - CLASSROOM	20 A	1	360	500					1	20 A	CLASSROOM SMART MONITOR - WEST	68	
	69	SPARE	20 A	1			0	0			1	20 A	SPARE	70	
	71	SPARE	20 A	1					0	0	1	20 A	SPARE	72	
	73	SPACE	--	1	--	0					1	20 A	SPARE	74	
	75	SPACE	--	1			--	0			1	20 A	SPARE	76	
	77	SPACE	--	1					--	0	1	20 A	SPARE	78	
	79	SPACE	--	1	--	0								80	
	81	SPACE	--	1			--	0			3	20 A	SURGE PROTECTIVE DEVICE	82	
	83	SPACE	--	1					--	0				84	
			TOTAL LOAD:		19640 VA		23142 VA		19339 VA						
			TOTAL AMPS:		164 A		193 A		161 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	13941 VA	100.00%	13941 VA		
Other	0 VA	100.00%	0 VA	**TOTAL CONN. LOAD:**	62120 VA
Power	35639 VA	100.00%	35639 VA	**TOTAL DEMAND LOAD:**	60850 VA
Receptacle	12540 VA	89.87%	11270 VA	**TOTAL CONN. CURRENT:**	172 A
				TOTAL DEMAND CURRENT:	169 A

NOTES:
1. PROVIDE A GFCI BREAKER FOR PERSONNEL PROTECTION (4-6mA).
2. PROVIDE A RED-PAINTED BREAKER WITH LOCK-ON CLIP FOR FIRE ALARM CONTROL PANEL.

BRANCH PANEL: PP2

LOCATION: UTILITY 113
SUPPLY FROM: TR2 75kVA, 277 V/480 V, Thre...
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22 KAIC
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
1	1	E-68 WHEEL BALANCER	30 A	2	1976	1600					1	30 A	E-9 DRILL PRESS	2	
	3						1976	400			1	20 A	E-5 BRAKE LATHE	4	
	5	2HP CAR LIFT #2 (CAR GARAGE)	30 A	2					1373	1373	2	30 A	2HP CAR LIFT #1 (CAR GARAGE)	6	
	7				1373	1373								8	
	9	2HP CAR LIFT #4 (CAR GARAGE)	30 A	2			1373	1373			2	30 A	2HP CAR LIFT #3 (CAR GARAGE)	10	
	11								1373	1373				12	
	13	CORD REEL #1 CAR GARAGE	20 A	1	1000	1373					2	30 A	2HP CAR LIFT #5 (CAR GARAGE)	14	
	15	CORD REEL #2 CAR GARAGE	20 A	1			1000	1373						16	
	17	E-69 RIM CLAMP	20 A	1					1440	0	1	20 A	E-4 DRUM FAN	18	
	19	E-23 DRUM FAN	20 A	1	0	840					1	20 A	E-44 BATTERY CHARGER	20	
	21	E-66 DRILL PRESS	20 A	1			1600	0			1	20 A	E-56 FAN	22	
	23	E-59 GRINDER	20 A	1					1000	840	1	20 A	E-49 AC MACHINE	24	
	25	E-37 BATTERY CHARGER	20 A	1	840	840					1	20 A	E-32 BATTERY CHARGER	26	
	27	E-2 BATTERY CHARGER 1	20 A	1			840	840			1	20 A	E-2 BATTERY CHARGER 2	28	
	29	E-2 BATTERY CHARGER 3	20 A	1					840	0	1	20 A	E-23 DRUM FAN	30	
	31	E-4 DRUM FAN 2	20 A	1	0	0					1	20 A	E-38 DRUM FAN	32	
	33	E-13 FORKLIFT CHARGER	20 A	1			840	1976			2	30 A	E-22 WHEEL BALANCER	34	1
1	35	WASHER	20 A	1					1000	1976				36	
1	37	DRYER	20 A	2	600	540					1	20 A	EXTERIOR CONV. RECEPTS	38	
	39						600	720			1	20 A	MEZZANINE CONV. RECEPTS	40	
	41	MEZZANINE MAINTENANCE RECEPTS	20 A	1					540	1000	1	20 A	CORD REEL #3 CAR GARAGE	42	
	43	CORD REEL #4 CAR GARAGE	20 A	1	1000	1000					1	20 A	CORD REEL #5 CAR GARAGE	44	
	45	CORD REEL BUS GARAGE	20 A	1			1000	--			1	--	SPACE	46	
	47	2HP CAR LIFT #6 (BUS GARAGE)	30 A	2					1373	--	1	--	SPACE	48	
	49				1373	--					1	--	SPACE	50	
	51	SPARE	20 A	1			0	--			1	--	SPACE	52	
	53	SPARE	20 A	1					0	--	1	--	SPACE	54	
	55	SPARE	20 A	1	0	0								56	
	57	SPARE	20 A	1			0	0			3	20 A	SURGE PROTECTIVE DEVICE	58	
	59	SPARE	20 A	1					0	0				60	
			TOTAL LOAD:		15727 VA		15910 VA		15500 VA						
			TOTAL AMPS:		131 A		133 A		129 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Power	37138 VA	100.00%	37138 VA		
Receptacle	10000 VA	100.00%	10000 VA	**TOTAL CONN. LOAD:**	47138 VA
				TOTAL DEMAND LOAD:	47138 VA
				TOTAL CONN. CURRENT:	131 A
				TOTAL DEMAND CURRENT:	131 A

NOTES:
1. PROVIDE A GFCI BREAKER FOR PERSONNEL PROTECTION (4-6mA).

MINI-POWER CENTER... EV-PP

LOCATION: UTILITY 113
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
PRI. VOLTAGE: 480V 3PH

SEC. VOLTAGE: 120/208 Wye
SEC. PHASES: 3
WIRES: 4
XFMR RATING: 30 KVA

A.I.C. RATING: 22 KAIC
MAINS TYPE: MCB
PRI. MCB RATING: 90 A
SEC. MCB RATING: 100 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
1	1	EV CHARGER #1 PORT #1	40 A	2	3350	0					3	30 A	SURGE PROTECTIVE DEVICE	2	
	3						3350	0						4	
1	5	EV CHARGER #1 PORT #2	40 A	2					3350	0				6	
	7				3350	--					1	--	SPACE	8	
	9	SPACE	--	1			--	--			1	--	SPACE	10	
	11	SPACE	--	1					--	--	1	--	SPACE	12	
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
			TOTAL LOAD:		6700 VA		3350 VA		3350 VA						
			TOTAL AMPS:		56 A		28 A		28 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Spare	13400 VA	100.00%	13400 VA		
				TOTAL CONN. LOAD:	13400 VA
				TOTAL DEMAND LOAD:	13400 VA
				TOTAL CONN. CURRENT:	37 A
				TOTAL DEMAND CURRENT:	37 A

NOTES:
1. 40A/2P BREAKER FOR FUTURE EV CHARGER. BREAKER TO BE IN "OFF" POSITION UNTIL FUTURE EV CHARGER INSTALLATION.

MINI-POWER CENTER... PP3

LOCATION: UTILITY 113
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
PRI. VOLTAGE: 480V 1PH

SEC. VOLTAGE: 120/240 Single
SEC. PHASES: 1
WIRES: 3
XFMR RATING: 25 KVA

A.I.C. RATING: 22 KAIC
MAINS TYPE: MCB
PRI. MCB RATING: 100 A
SEC. MCB RATING: 125 A

NOTES	CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	NOTES
1	1	E-10 FILTER CRUSHER	20 A	2	1800	960			2	20 A	BUS GARAGE DOOR SOUTH #2	2	
	3						1800	960				4	
	5	BUS GARAGE DOOR SOUTH #1	20 A	2	960	960			2	20 A	BUS GARAGE DOOR NORTH #1	6	
	7						960	960				8	
	9	BUS GARAGE DOOR NORTH #2	20 A	2	960	960			2	20 A	CAR GARAGE DOOR SOUTH	10	
	11						960	960				12	
	13	CAR GARAGE DOOR NORTH	20 A	2	960	0			1	20 A	SPARE	14	
	15						960	0	1	20 A	SPARE	16	
	17	SPARE	20 A	1	0	0			1	20 A	SPARE	18	
	19	SPARE	20 A	1			0	0	1	20 A	SPARE	20	
	21	SPARE	20 A	1	0	0			1	20 A	SPARE	22	
	23	SPARE	20 A	1			0	0	2	20 A	SURGE PROTECTIVE DEVICE	24	
	25	SPARE	20 A	1	0	0						26	
			TOTAL LOAD:		7560 VA		7560 VA						
			TOTAL AMPS:		63 A		63 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Power	15120 VA	100.00%	15120 VA		
				TOTAL CONN. LOAD:	15120 VA
				TOTAL DEMAND LOAD:	15120 VA
				TOTAL CONN. CURRENT:	63 A
				TOTAL DEMAND CURRENT:	63 A

NOTES:
1. PROVIDE A GFCI BREAKER FOR PERSONNEL PROTECTION (4-6mA).

PANELBOARD GENERAL NOTES

A. PROVIDE ARC-FAULT BREAKERS AS REQUIRED BY NEC AND PER DRAWINGS AND SPECIFICATIONS.
B. PROVIDE LAMACOID NAMEPLATES ATTACHED WITH SCREWS TO THE FRONT OF EACH PANELBOARD AS REQUIRED BY DRAWINGS AND/OR SPECIFICATIONS.
C. PROVIDE EQUIPMENT WITH SUFFICENT INTERRUPTING CAPACITY (AIC) REQUIRED FOR A SAFE INSTALLATION. AIC RATING NOTED ON EACH PANELBOARD SCHEDULE IS MINIMUM RATING ACCEPTED WITHOUT ADDITIONAL DOCUMENTATION THAT INDICATES DIFFERENTLY.
D. PROVIDE TYPED, UPDATED PANELBOARD SCHEDULES FOR FRONT COVER OF PANEL.

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REV.	DATE	DESCRIPTION

DRC-231009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 56SW
LONDON OH 43140

ELECTRICAL - PANEL SCHEDULES

ISSUED FOR:	
PERMIT	08/25/2025
BID	08/25/2025
CONSTRUCTION	--/--/----
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PROJECT MANAGER	DESIGNER
RD	DP

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2023352.01

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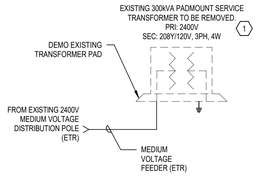
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SINGLE LINE DIAGRAM NOTES

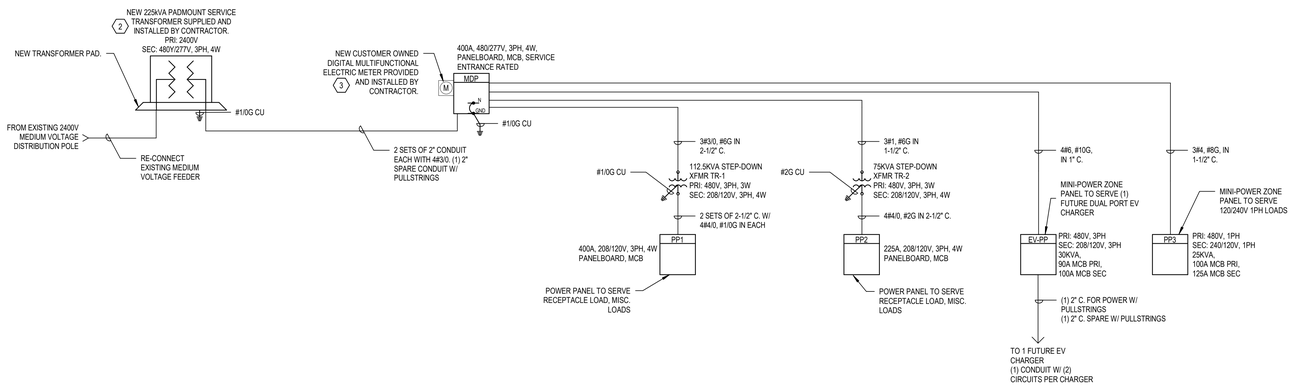
A. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL ELECTRIC UTILITY REQUIREMENTS PRIOR TO CONSTRUCTION.
B. PROVIDE ARC-FAULT LABELING AS REQUIRED BY DRAWINGS AND PER SPECIFICATIONS.
C. PROVIDE LAMACOID NAMEPLATES AS REQUIRED BY DRAWINGS AND/OR SPECIFICATIONS.
D. ALL PANELBOARDS SHALL BE PROVIDED WITH AIC RATINGS AS NOTED ON PANEL SCHEDULE.

SHEET KEYNOTES

1. EXISTING 300kVA 2400V-208Y/120V PADMOUNT SERVICE TRANSFORMER CURRENTLY NOT SERVING ANY SECONDARY LOAD TO BE REMOVED COMPLETE AND RETURNED TO OWNER. DISCONNECT EXISTING PRIMARY MEDIUM VOLTAGE CABLE AND PRESERVE FOR RE-USE. DEMO EXISTING CONCRETE PAD FOR REPLACEMENT.
2. NEW 225KVA OIL FILLED 2400V-480Y/120V PADMOUNT SERVICE TRANSFORMER TO BE PLACED ON NEW PRECAST CONCRETE PAD. RE-CONNECT EXISTING MEDIUM VOLTAGE CABLING. PROVIDE NEW SECONDARY CABLING AND CONDUIT AS SHOWN ON PROPOSED SINGLE-LINE.
3. PROVIDE POTENTIAL WIRING AND CT WIRING AS REQUIRED IN SEPARATE 3/4" CONDUITS FOR COMPLETE INSTALLATION OF CUSTOMER OWNED DIGITAL ELECTRIC METER. ELECTRIC METER SHALL BE PROVIDED IN A NEMA 1 ENCLOSURE MOUNTED ADJACENT TO PANEL MDP. SHARK 250 METER OR APPROVED EQUAL.



1 DEMOLITION ELECTRICAL SINGLE LINE DIAGRAM
N.T.S.



2 PROPOSED ELECTRICAL SINGLE LINE DIAGRAM
N.T.S.

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ELECTRICAL - SINGLE LINE DIAGRAMS

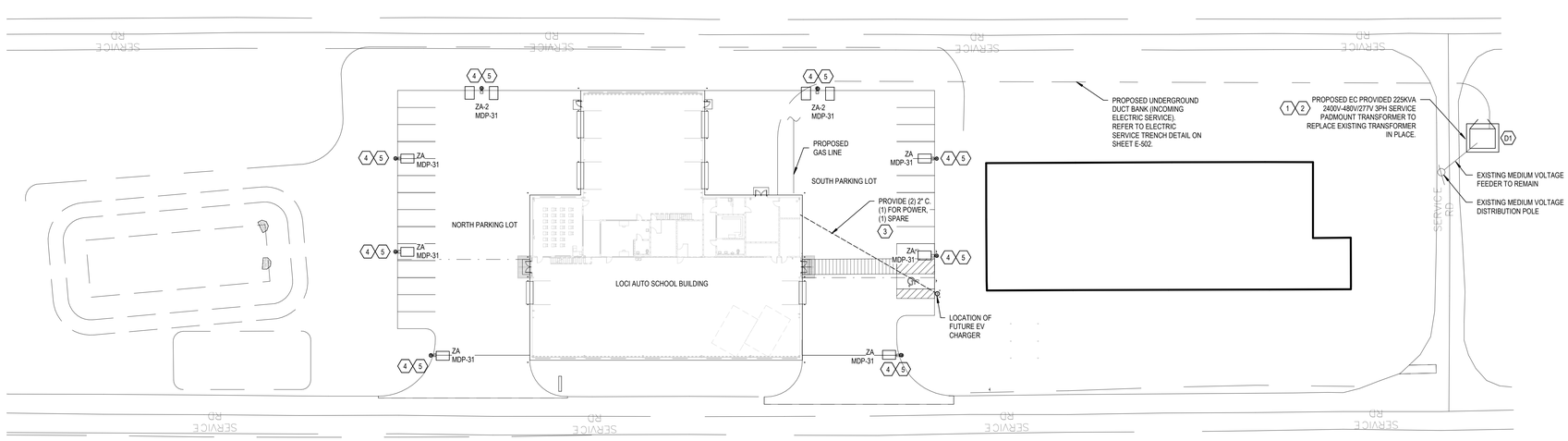
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1 ELECTRICAL SITE PLAN
1" = 30'-0"

GENERAL NOTES

A. GENERAL CONTRACTOR AND SUB-CONTRACTOR SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
B. COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND REQUIREMENTS OF THE OWNER. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. E.C. SHALL PROVIDE AN UPDATED, ACCURATE, PRINTED BREAKER IDENTIFICATION CARD INSIDE PANEL DOOR AFTER WORK IS COMPLETED.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING REQUIRED FOR CONDUIT ROUTING FROM THE MAIN ELECTRICAL SOURCE TO ALL ELECTRICAL EQUIPMENT AND INDIVIDUAL CHARGERS.
H. ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN THE TRENCH DETAILS, AS WELL AS MAINTAIN A MINIMUM 18" CLEARANCE FROM ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES, ELECTRICAL LINES, GAS LINES AND OTHER UNDERGROUND UTILITIES.
I. CONTRACTOR SHALL VERIFY CHARGING STATION ORIENTATION AND PLACEMENT PRIOR TO INSTALLATION.
J. CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICES PRIOR TO THE START OF CONSTRUCTION. EXTREME CAUTION SHOULD BE USED WHEN EXCAVATING OR ROUTING CONDUIT AROUND OR NEAR UTILITIES.
K. CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL.
L. ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
M. CONTRACTOR SHALL PROVIDE WATER TIGHT & FIRE STOP FITTINGS IN ALL PENETRATIONS.
N. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY ONLY. CONDUIT PLACEMENT TO BE VERIFIED BY CONTRACTOR BASED ON EXISTING SITE CONDITIONS, PHYSICAL MEASUREMENTS, AND
O. APPROVAL FROM PROPERTY OWNER FOR FINAL ROUTING.
P. ALL UNDERGROUND CONDUITS ROUTED TO PROPOSED EQUIPMENT SHALL BE ROUTED UP THROUGH CONCRETE SLAB OR EV STATION FOUNDATION.

DEMOLITION SHEET KEYNOTES (D#)

1. EXISTING 2400V-208Y/120V 3PH PADMOUNT SERVICE TRANSFORMER TO BE REMOVED COMPLETE AND RETURNED BACK TO OWNER. EC SHALL DISCONNECT EXISTING PRIMARY MEDIUM VOLTAGE CABLES FROM EXISTING TO BE REMOVED SERVICE TRANSFORMER. DEMO EXISTING PRECAST TRANSFORMER VAULT FOR NEW.

NEW WORK SHEET KEYNOTES (#)

1. PROPOSED EC PROVIDED 225KVA 2400V-480Y/277V 3PH SERVICE PADMOUNT TRANSFORMER ON NEW PRECAST TRANSFORMER CONCRETE PAD.
2. RE-CONNECT EXISTING MEDIUM VOLTAGE CABLES TO PROPOSED SERVICE TRANSFORMER. EXTEND AS REQUIRED.
3. PROPOSED CONDUITS BETWEEN PANEL EV-PP AND FUTURE LOCATION OF EV CHARGER TO BE ROUTED UNDERGROUND. ROUTE ONE (1) 2" CONDUIT FOR FUTURE POWER CIRCUITS AND (1) 2" CONDUIT FOR SPARE. BOTH WITH PULLSTRINGS. CAP AND LABEL BOTH CONDUITS AS "EV CHARGER POWER" AND "SPARE", RESPECTIVELY. REFER TO SHEET E-502 FOR MISC. TRENCH DETAIL.
4. NEW PROPOSED LIGHT POLE. REFER TO RAISED LIGHT POLE BASE DETAIL ON SHEET E-502 AND LIGHTING FIXTURE SCHEDULE ON SHEET E-601 FOR MORE INFORMATION.
5. PARKING LOT LIGHT FIXTURES SHALL BE ROUTED VIA ASTRONOMIC TIMECLOCK TO ENSURE ALL LIGHTS ARE OFF DURING DAYLIGHT HOURS. MOTION SENSOR INTEGRATED IN PARKING LOT LIGHT FIXTURES FOR PARTIAL OFF OPERATION. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E-601 FOR MORE INFORMATION.

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ELECTRICAL - SITE PLAN

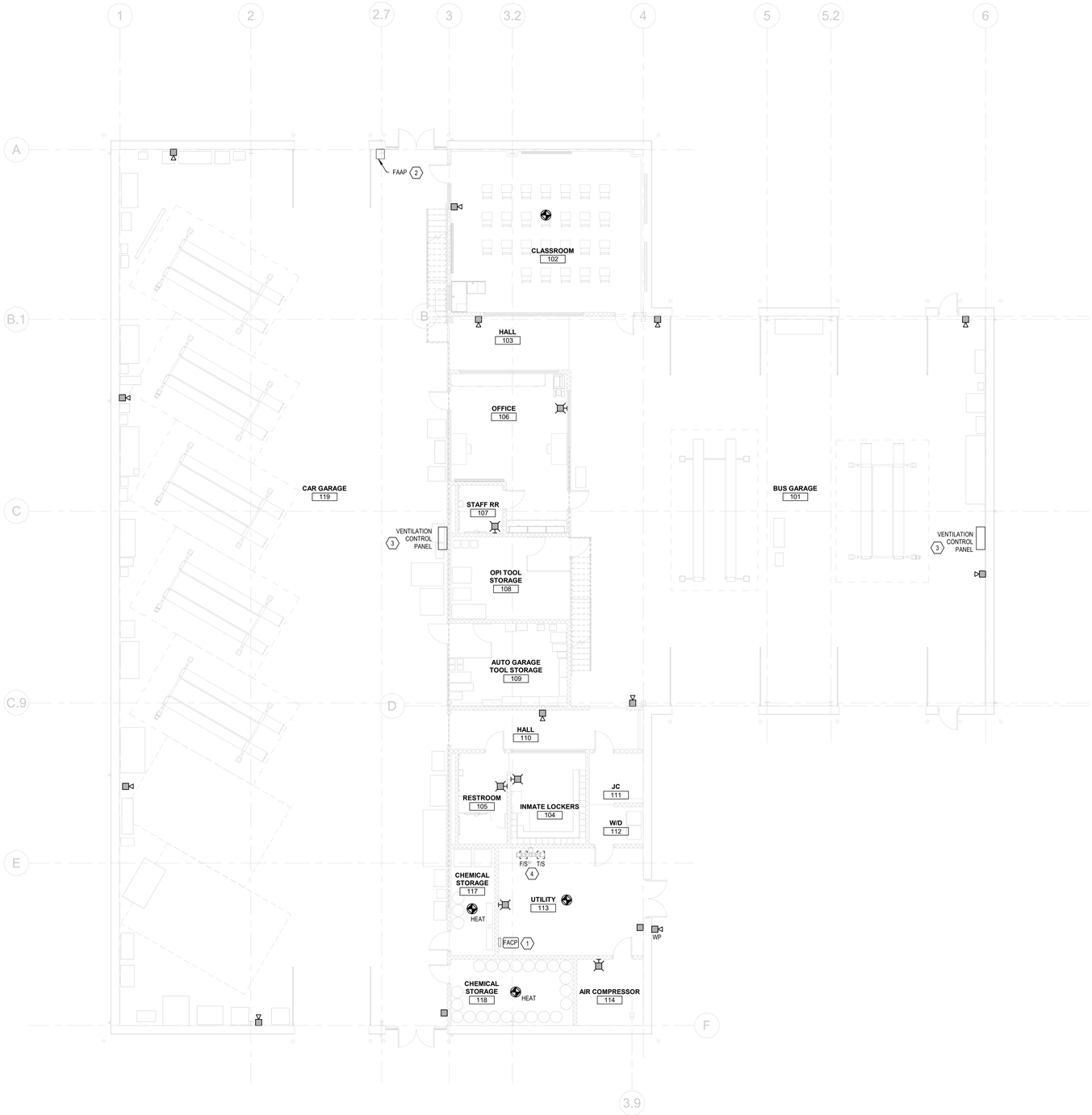
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ESP-101

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1 FIRE ALARM - FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

A. GENERAL CONTRACTOR AND SUB-CONTRACTOR SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
B. COORDINATE WORK WITH OTHER TRADES. EQUIPMENT FURNISHED BY OTHERS AND REQUIREMENTS OF THE OWNER. COORDINATE THE INSTALLATION WITH OTHER TRADES AS REQUIRED TO ENSURE A NEAT AND ORDERLY INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. ALL FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN CONDUIT SIZED PER NEC, AND NO SMALLER THAN 3/4" CONDUIT SHALL BE PERMITTED.
G. ALL JUNCTION BOXES AND CONDUITS ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
H. COORDINATE FIRE ALARM WIRING AND MODULE PLACEMENTS WITH LICENSED FIRE ALARM CONTRACTOR. SYSTEM SUPPLIER SHALL PROGRAM AND TEST SYSTEM.
I. ALL FIRE ALARM DEVICES SHALL CONNECT TO FIRE ALARM CONTROL PANEL.

SHEET KEYNOTES (#)

1. FIRE ALARM CONTROL PANEL. PROVIDE 1" CONDUIT PAINTED RED WITH PULLSTRING TO PANEL PP1 FOR POWER. CONFIRM EXACT LOCATION IN-FIELD.
2. LCD FIRE ALARM REMOTE ANNUNCIATOR PANEL. PROVIDE REQUIRED WIRING TO ANNUNCIATOR PANEL FROM FIRE ALARM CONTROL PANEL. FINAL LOCATION AND QUANTITY OF ANNUNCIATOR PANELS SHALL BE AS REQUIRED BY LOCAL FIRE DEPARTMENT.
3. TIE IN CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTION AUTOMATIC VENTILATION SYSTEM WITH FIRE ALARM CONTROL PANEL.
4. TAMPER AND FLOW SWITCHES AT MAIN SPRINKLER LINE. COORDINATE WITH FIRE PROTECTION CONTRACTOR PRIOR TO COMMENCING WORK TO ENSURE EXACT QUANTITIES AND LOCATION OF DEVICES.

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FIRE ALARM - FIRST FLOOR PLAN

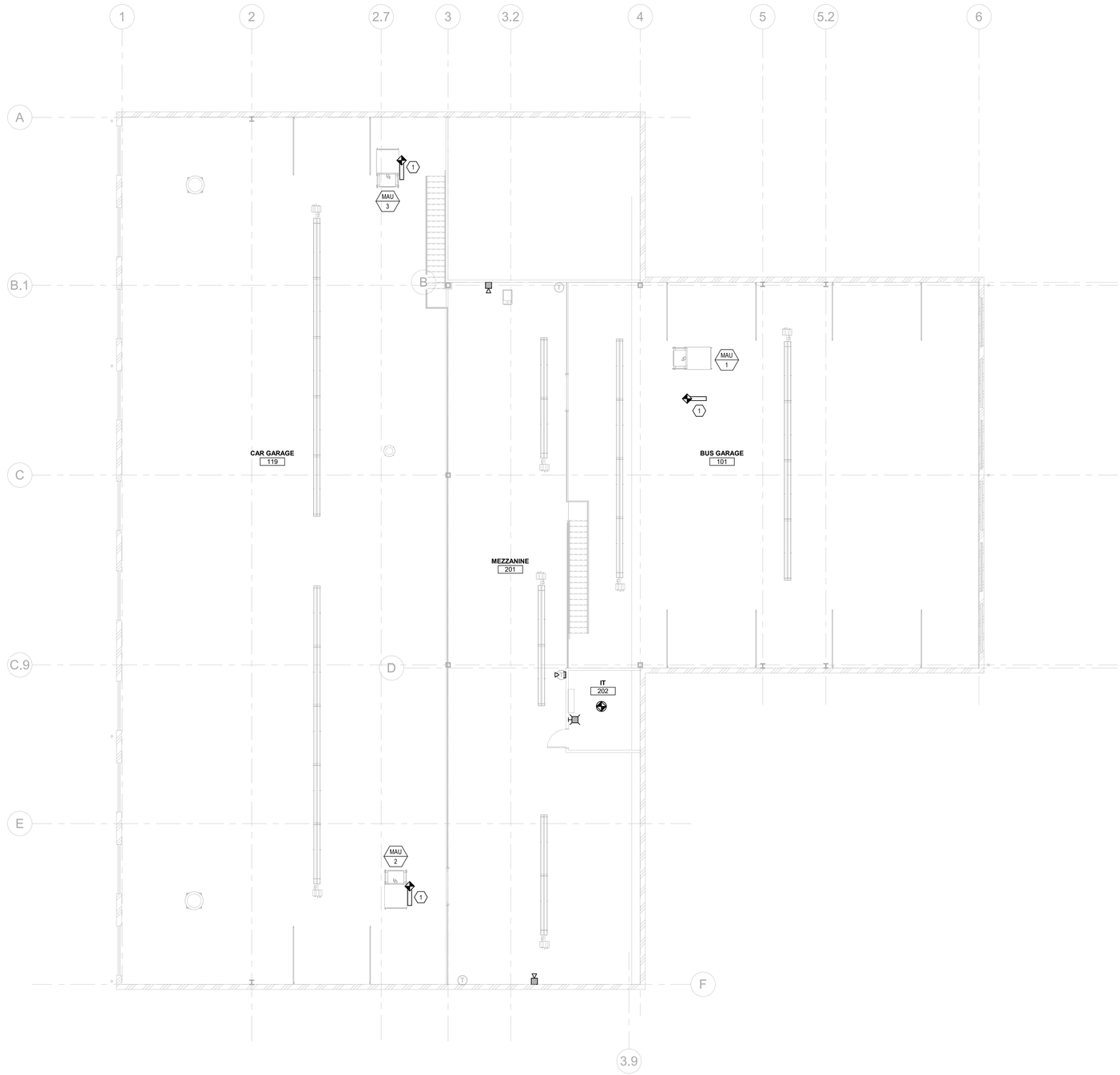
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1 FIRE ALARM - MEZZANINE PLAN
1/8" = 1'-0"

N

GENERAL NOTES

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C. PROVIDE INFERS TO FURNISH AND INSTALL.
D. PROVIDE PERMANENT LABELS ON ALL ELECTRICAL EQUIPMENT AND CONDUIT TO INDICATE CKT# AND EQUIPMENT IDENTIFICATION NAME.
E. PROVIDE ALL ACCESSORIES AND WIRE PER MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE INSTALLATION.
F. ALL FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN CONDUIT SIZED PER NEC, AND NO SMALLER THAN 3/4" CONDUIT SHALL BE PERMITTED.
G. ALL JUNCTION BOXES AND CONDUITS ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
H. COORDINATE FIRE ALARM WIRING AND MODULE PLACEMENTS WITH LICENSED FIRE ALARM CONTRACTOR. SYSTEM SUPPLIER SHALL PROGRAM AND TEST SYSTEM.
I. ALL FIRE ALARM DEVICES SHALL CONNECT TO FIRE ALARM CONTROL PANEL.

SHEET KEYNOTES

1. PROVIDE DUCT DETECTOR IN RETURN AIR DUCT WITH NEW REMOTE TEST STATION. PROVIDE FIRE ALARM BRANCH CIRCUIT TO NEW DUCT DETECTOR. COORDINATE REMOTE TEST STATION LOCATION IN-FIELD.

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FIRE ALARM - MEZZANINE PLAN

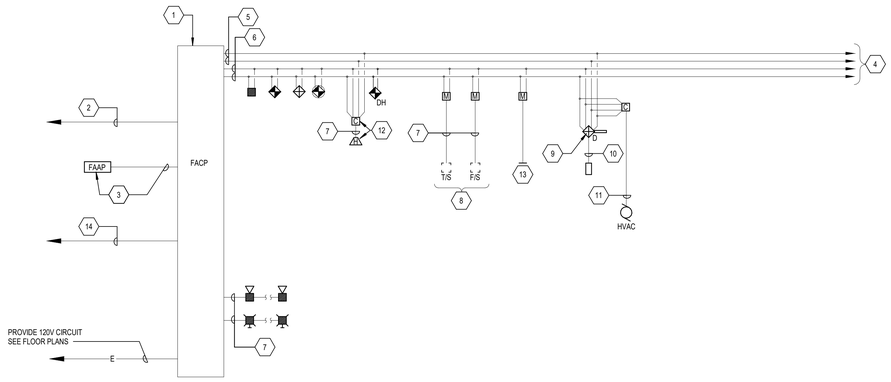
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FIRE ALARM RISER KEYNOTES:

1. FIRE ALARM CONTROL PANEL - PROVIDE PROGRAMMABLE CONTROL SWITCHES (FIVE MAXIMUM) FOR THE FOLLOWING: (STATE TIE BYPASS, DOOR HOLD OPEN BYPASS, MANUAL EVACUATION, SMOKE CONTROL SYSTEM OPERATION, CUSTOM CONTROLS, ETC....).
2. FOR STATE TIE-IN, PROVIDE EITHER TWO (2) DEDICATED PHONE LINES TO MAIN TELEPHONE TERMINAL BOARD, OR CELLULAR CONNECTION. CONFIRM EXACT REQUIREMENTS WITH AHJ PRIOR TO ORDERING. PROVIDE REMOTE DIGITAL COMMUNICATOR. FURNISH TIE-IN FOR SECURITY SYSTEM SECONDARY OFFSITE MONITORING AS REQUIRED BY OWNER.
3. LCD FIRE ALARM REMOTE ANNUNCIATOR PANEL WITH A MINIMUM OF FIVE (5) PROGRAMMABLE CONTROL SWITCHES TO DUPLICATE CONTROL FUNCTIONS IN THE FACP. PROVIDE REQUIRED WIRING TO ANNUNCIATOR PANEL. FINAL LOCATION AND QUANTITY OF ANNUNCIATOR PANELS SHALL BE AS REQUIRED BY LOCAL FIRE DEPARTMENT.
4. TO ADDITIONAL DEVICES.
5. PROVIDE WIRING FOR POWER CIRCUIT.
6. PROVIDE WIRING FOR COMMUNICATION CIRCUIT. PROVIDE REQUIRED WIRING TO DEVICES INDICATED.
7. PROVIDE WIRING TO NOTIFICATION DEVICES.
8. TAMPER AND FLOW SWITCHES DISTRIBUTED THROUGHOUT BUILDING AREAS. COORDINATE WITH FIRE PROTECTION CONTRACTOR PRIOR TO COMMENCING WORK TO ENSURE EXACT QUANTITIES AND LOCATION OF DEVICES. QUANTITIES SHOWN ON FIRE ALARM RISER BELOW WILL VARY BASED ON FIRE PROTECTION CONTRACTOR'S DESIGN.
9. DUCT SMOKE DETECTOR MOUNTED BY M.C. WITH PROBE PENETRATING DUCT AS REQUIRED BY ASSOCIATED INTERNATIONAL BUILDING CODE TO SHUTDOWN HVAC UNIT UPON ACTIVATION OF DETECTOR. DETECTOR SHALL ACTIVATE BUILDING FIRE ALARMS.
10. PROVIDE REQUIRED WIRING TO REMOTE DUCT SMOKE DETECTOR TEST STATION.
11. E.C. SHALL PROVIDE POWER TO DEVICE AND WIRING TO ALARM CONTACT (1 OF 2 FORM C CONTACTS IN DEVICE). M.C. PROVIDES WIRING FROM CONTACT (2 OF 2 FORM C CONTACTS IN DEVICE) TO STARTERS/VFD'S (HARD-WIRED) OR THRU BAS SYSTEM (FOR MULTIPLE HVAC EQUIPMENT ASSOCIATED WITH DUCT AS DETERMINED BY M.C.) UPON ACTIVATION OF DEVICE, ASSOCIATED MECHANICAL AIR HANDLING UNIT WITH DUCT SMOKE DETECTOR SHALL BE SHUTDOWN.
12. PROVIDE DEVICES OR MODULES AS REQUIRED TO RELEASE MAGNETIC DOOR HOLDERS DURING ALARM STATUS.
13. ADDRESSABLE MODULE FOR SECURITY SYSTEM TIE-IN. COORDINATE EXACT LOCATION WITH SECURITY PLANS.
14. FURNISH TIE-IN TO EXISTING CENTRAL CAMPUS FIRE ALARM MONITORTING STATION AS REQUIRED BY OWNER.

GENERAL NOTES

A. SEE SHEET F-101 FOR FACP LOCATION.
B. THIS RISER DIAGRAM REPRESENTS A TYPICAL ADDRESSABLE FIRE ALARM SYSTEM AND IS NOT INTENDED FOR INSTALLATION. THE SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS. EXACT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE SYSTEM SUPPLIER.
C. FURNISH AND INSTALL ALL DUCT SMOKE DETECTORS AS REQUIRED FOR LOCAL SHUT DOWN OF CORRESPONDING MECHANICAL EQUIPMENT.
D. LOCATE REMOTE TEST SWITCHES NEAR UNIT THAT IS BEING MONITORED AND AS DIRECTED BY G.C. PROVIDE A LAMACOID NAMEPLATE NEXT TO SWITCH INDICATING HVAC UNIT BEING MONITORED.
E. FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN CONDUIT AS REQUIRED BY CODE. CONDUIT SHALL BE PAINTED RED. SIZED PER NEC AND NO SMALLER THAN 3/4 " CONDUIT WILL BE PERMITTED.
F. ALL JUNCTION BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
G. PROVIDE ALL TIE-INS REQUIRED FOR MONITORING OF TAMPER AND FLOW SWITCHES. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH THE FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
H. REFER TO FIRE ALARM SPECIFICATION FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
I. COORDINATE CITY TIE-IN REQUIREMENTS WITH LOCAL OFFICIALS.
J. SYSTEM SUPPLIER SHALL SUPERVISE INSTALLATION, PROGRAM AND TEST SYSTEM, AND INSTRUCT OWNER ON SYSTEM OPERATION. SYSTEM SHALL BE TESTED IN THE PRESENCE OF LOCAL FIRE DEPARTMENT PERSONNEL.
K. E.C. SHALL PROVIDE A COMPLETE FIRE ALARM SUBMITTAL PACKAGE TO LOCAL OFFICIALS FOR APPROVAL PRIOR TO COMMENCING WORK. SUBMITTAL SHALL INCLUDE FLOOR PLANS, WIRING DIAGRAMS, BATTERY CALCULATIONS, ETC.
L. PROVIDE RED-PAINTED BREAKER WITH LOCK-ON CLIP SERVING FIRE ALARM CONTROL PANEL.
M. HORN/STROBES AND STROBE-ONLY DEVICES SHALL BE INSTALLED PER NFPA 72.
N. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED PER FLOOR

FIRE ALARM SYMBOLS

- ADDRESSABLE SMOKE DETECTOR
- ADDRESSABLE SMOKE/CO DETECTOR
- DH — FIRE ALARM SMOKE DETECTOR FOR RELEASE OF MAGNETIC DOOR HOLDERS. MOUNT ON BOTH SIDES OF ASSOCIATED FIRE DOOR AS REQUIRED PER NFPA 72.
- ADDRESSABLE HEAT DETECTOR
- STROBE (WALL MOUNTED) 80" AFF TO CENTERLINE OF DEVICE
- ADDRESSABLE PULL STATION
- M — ADDRESSABLE MONITOR MODULE
- FS — FIRE ALARM SPEAKER/STROBE (WALL MOUNTED) 80" AFF TO CENTERLINE OF DEVICE
- FS — FIRE ALARM SPEAKER/STROBE (CEILING MOUNTED)
- HORN/STROBE (WALL MOUNTED) 80" AFF TO CENTERLINE OF DEVICE
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM REMOTE ANNUNCIATOR 60" AFF TO CENTERLINE OF DEVICE
- FAEP — FIRE ALARM EXTENSION PANEL
- R — ADDRESSABLE RELAY
- ADDRESSABLE DUCT DETECTOR Mounted In Return Duct (unless otherwise note)
- REMOTE ALARM L.E.D.
- F/S — SPRINKLER WATERFLOW SWITCH
- T/S — SPRINKLER TAMPER SWITCH
- P — POST INDICATOR VALVE
- WP = WEATHER PROOF DEVICE
- WG = WIRE GUARD

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FIRE ALARM RISER

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RD	DP

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TECHNOLOGY SYMBOLS

	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
#x#	CABLE TRAY OF SIZE "#x#" - REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	LADDER TYPE CABLE TRAY - REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	SURFACE RACEWAY - REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
	COMBINATION IN FLOOR POWER / DATA / A/V FLOOR BOX DEVICE - FLOOR BOX, CONDUIT, POWER DEVICE, AND RELATED POWER WIRING PROVIDED BY EC. REFER TO TECHNOLOGY FLOOR PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
	COMBINATION IN FLOOR POWER / DATA / A/V POKE THRU DEVICE. POKE THRU, CONDUIT, POWER DEVICE, AND RELATED POWER WIRING PROVIDED BY EC. REFER TO TECHNOLOGY FLOOR PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
	CROSS CONNECT
	DUAL CHANNEL VERTICAL SERVICE POLE
	PROTECTION FOR CLASS II CABLING. REFER TO TECHNOLOGY PATHWAY HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
	GROUNDING BUSBAR - REFER TO GROUNDING DETAILS FOR ADDITIONAL INFORMATION
	19" TECHNOLOGY EQUIPMENT OPEN RACK, DUAL UPRIGHT WITH VERTICAL MANAGEMENT, UON.
	GENERIC VOICE/DATA DEVICE AND OUTLET BOX INDICATED FOR DEMOLITION - REFER TO TECHNOLOGY DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

COMMUNICATIONS DEVICE SYMBOL LEGEND

R	ROUGH-IN OUTLET BOX - REFER TO ROUGH-IN DIAGRAM FOR ADDITIONAL INFORMATION

SECURITY DEVICE SYMBOL LEGEND

	CEILING MOUNTED STANDARD RESOLUTION SURVEILLANCE CAMERA, UON
	WALL MOUNTED STANDARD RESOLUTION SURVEILLANCE CAMERA, UON

SECURITY SCHEDULE

LABEL	DESCRIPTION
180	180 DEGREE SURVEILLANCE CAMERA
360	360 DEGREE SURVEILLANCE CAMERA

DATA DEVICE SYMBOL LEGEND

	CEILING MOUNTED WIRELESS DEVICE - WIRELESS ACCESS POINT, UON
	WORK AREA DEVICE, UON. REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION

ABBREVIATIONS

8P8C	EIGHT PIN - EIGHT CONDUCTOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BBC	BONDING BACKBONE CONDUCTOR
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CCTV	CLOSED CIRCUIT TELEVISION (SURVEILLANCE CAMERA)
DAS	DISTRIBUTED ANTENNA SYSTEM
EC	ELECTRICAL CONTRACTOR
EIC	ELECTRONICS INDUSTRIES ASSOCIATION
EMT	ELECTRICAL METALLIC TUBING
ERRCS	EMERGENCY RESPONDER RADIO COMMUNICATION SYSTEM
ETR	EXISTING TECHNOLOGY DEVICE TO REMAIN
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
HC	HORIZONTAL CROSS-CONNECT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IC	INTERMEDIATE CROSS-CONNECT
IDS	INTRUSION DETECTION SYSTEM
MC	MAIN CROSS-CONNECT
MM	MULTIMODE
NEC	NATIONAL ELECTRICAL CODE
NEX	REMOVE EXISTING TECHNOLOGY DEVICE AND INSTALL NEW TECHNOLOGY DEVICE IN EXISTING OUTLET BOX. REFER TO NEW FLOOR PLANS FOR NEW DEVICE TYPE AND CABLING REQUIREMENTS. PROVIDE NEW FACEPLATE.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
OBC	OHIO BUILDING CODE
OSP	OUTSIDE PLANT
PACS	PHYSICAL ACCESS CONTROL SYSTEM
PBB	TELECOMMUNICATIONS PRIMARY BONDING BUSBAR
POE	POWER OVER ETHERNET
PTZ	PAN, TILT, ZOOM
RBB	TELECOMMUNICATIONS RACK BONDING BUSBAR
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RD	NEW LOCATION OF RELOCATED TECHNOLOGY DEVICE
REX	REMOVE EXISTING TECHNOLOGY DEVICE ALONG WITH RELATED CONDUIT AND CABLING, UON
RR	REMOVE AND RELOCATE EXISTING TECHNOLOGY DEVICE AS SHOWN OR AS NOTED ON DRAWINGS
SBB	TELECOMMUNICATIONS SECONDARY BONDING BUSBAR
SM	SINGLE MODE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TECHNOLOGY CONTRACTOR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WAP	WIRELESS ACCESS POINT

GENERAL NOTES

A. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH THE FIRESTOPPING DETAILS AND SPECIFICATIONS.

B. THE ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT OR RACEWAY IN FINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ALL EXPOSED CONDUIT SHALL BE RIGID IN TYPE EMT OR GRC.

C. FIELD VERIFY THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND ELECTRICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE APPROPRIATE ADJUSTMENTS TO CONDUIT AND RACEWAY LOCATIONS AS REQUIRED. FOR ADDITIONAL REQUIREMENTS, REFER TO TECHNOLOGY PATHWAY HARDWARE SPECIFICATION SECTION.

D. UTILIZATION OF THE PHRASE "PROVIDED BY" WITHIN THE CONTEXT OF THESE DOCUMENTS SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED BY".

E. ALL PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED IN A "READILY ACCESSIBLE" LOCATION AND SHALL HAVE PROPER WORKING SPACE AS DEFINED IN NEC ARTICLE 100 AND 110.

F. COORDINATE LOCATIONS OF ALL WORK AREA OUTLETS, FLOOR BOXES, AND OTHER WALL MOUNTED DEVICES WITH THE CASEWORK AND FURNITURE LAYOUTS AND ARCHITECTURAL WALL ELEVATIONS. FIELD VERIFY EXACT LOCATIONS AND CONDUIT ROUTING METHODS WITH ARCHITECT PRIOR TO ROUGH-IN.

G. ALL CABLE TRAYS SHALL BE INSTALLED SO AS TO BE U.L. LISTED AS BEING ELECTRICALLY CONTINUOUS FOR GROUNDING PURPOSES, AND SHALL BE BONDED TO AN ACCEPTABLE TELECOMMUNICATIONS GROUND ONLY.

H. COORDINATE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS.

I. TC SHALL PROVIDE NETWORK CABLE(S) AS INDICATED ON FACEPLATE DETAILS FOR EACH WIRELESS ACCESS POINT AND TERMINATE IN THE CORRESPONDING TELECOMMUNICATIONS ROOM. AT EACH ACCESS POINT, TC SHALL TERMINATE (RJ-45 JACKS IN SURFACE MOUNT OUTLET BOX), COIL, AND LEAVE SLACK ABOVE CEILING. REFER TO ROUGH-IN DIAGRAM FOR LENGTH OF COILED CABLE. TC SHALL SUPPORT COILED NETWORK CABLE(S) WITH J-HOOK.

ELECTRICAL AND TECHNOLOGY DIVISION OF SCOPE

WORK SCOPE			ELECTRICAL CONTRACTOR		TECHNOLOGY CONTRACTOR			OWNER OR OWNER'S SYSTEM SUPPLIER		
SYSTEM	SPECIFIED IN DIVISION	BIDDING NOTE	FURNISH SYSTEM, EQUIPMENT, WIRING, AND INSTALLATION	FURNISH AND INSTALL ROUGH-IN	PROVIDE WIRING	FURNISH SYSTEM EQUIPMENT	INSTALL DEVICES	PROVIDE WIRING	FURNISH SYSTEM EQUIPMENT	INSTALL DEVICES
VOICE / DATA	27	7		X	X		X		X	
TELECOMMUNICATIONS GROUNDING	27	6	X	X	X	X	X			
AUDIO VISUAL	27	7		X				X	X	X
CCTV / VIDEO MANAGEMENT	27	8		X	X		X		X	

BIDDING NOTES

1. SEPARATE ELECTRICAL AND TECHNOLOGY CONTRACTORS MAY BID WORK SCOPE AS DELINEATED BY THE DIVISION 26 AND DIVISION 27 CONTRACT DOCUMENTS.

2. CONTRACTORS SHALL EXAMINE ALL DIVISION 26 AND 27 DRAWINGS AND SPECIFICATIONS AS IT PERTAINS TO THEIR SCOPE OF WORK AND SHALL INCLUDE ALL RELATED COSTS IN BIDS.

3. ROUGH-IN INCLUDES ALL CONTINUOUS PATHWAYS (INCLUDING BUT NOT LIMITED TO CONDUITS, CABLE TRAYS, CONDUIT SLEEVES AND CONTINUOUS RACEWAYS) AND ASSOCIATED BACK BOXES, JUNCTION BOXES, FLOOR DEVICES, AND RELATED HARDWARE REQUIRED FOR ALL LOW VOLTAGE CABLING ROUGH-INS AND EQUIPMENT INSTALLATIONS, UNLESS OTHERWISE NOTED BELOW.

4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING DIVISION 26 REQUIREMENTS:
   A. PROVISION OF ALL LINE VOLTAGE DEVICES, EQUIPMENT, WIRING, AND TERMINATIONS.
   B. PROVISION OF ALL BONDING CONDUCTORS AND RELATED HARDWARE REQUIRED TO BOND ALL CABLE TRAY OUTSIDE THE TECHNOLOGY ROOMS.
   C. PROVISION OF CONDUIT SLEEVES INTO ALL SPACES CONTAINING DISTRIBUTION OF LOW VOLTAGE SERVICES, UNLESS OTHERWISE NOTED BELOW.
      a. ALL CONDUIT SLEEVES SHALL BE A MINIMUM OF 2" PER TECHNOLOGY SYSTEM.
   D. COORDINATION OF EXACT SIZE AND QUANTITY OF CONDUITS AND PATHWAYS PRIOR TO ROUGH-IN. CONDUIT FILL SHALL NOT EXCEED 40%.
   E. FIRESTOPPING AROUND CONDUIT AND CONDUIT SLEEVE PENETRATIONS.
   F. PROVISION OF TECHNOLOGY ROOM FIRE RATED PLYWOOD BACKBOARDS AS DEFINED IN THE CONTRACT DOCUMENTS.
   G. PROVISION OF LOW VOLTAGE SYSTEM CABLE TRAY THROUGHOUT BUILDING OR PROJECT AREA.

5. THE TECHNOLOGY CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING DIVISION 27 REQUIREMENTS:
   A. PROVISION OF ALL RACK MOUNTED UPS EQUIPMENT AND RELATED POWER STRIP DEVICES.
   B. PROVISION OF ALL OTHER CABLING, CONNECTORS, NON-CONTINUOUS PATHWAY HARDWARE, FACEPLATES, LABELS, AND ALL OTHER RELATED MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND FUNCTIONAL LOW VOLTAGE SYSTEMS.
   C. SEALING INNER / CONDUIT PENETRATIONS UPON COMPLETION OF LOW VOLTAGE CABLING INSTALLATION WITH APPROVED FIRESTOP AND/OR APPROVED SEALANT PRODUCT.
   D. PROVISION OF EQUIPMENT RACKS AND LOW VOLTAGE SYSTEM CABLE TRAY OR LADDER RACK INSIDE TECHNOLOGY ROOMS.

6. TELECOMMUNICATIONS GROUNDING SCOPE SHALL BE THE FOLLOWING:
   A. EC SHALL PROVIDE BONDING BUSBARS AS CALLED FOR ON TELECOMMUNICATIONS GROUNDING RISER DIAGRAM.
   B. EC SHALL PROVIDE GROUNDING CONDUCTOR TO ELECTRICAL PANEL AND BUILDING STEEL, UON.
   C. EC SHALL REVIEW ENLARGED TELECOMMUNICATIONS ROOM PLANS FOR ADDITIONAL BONDING REQUIREMENTS.
   D. TC SHALL PROVIDE INDIVIDUAL #6 GROUNDING CONDUCTORS AND RELATED HARDWARE REQUIRED FOR GROUNDING OF CABLE TRAY, EACH EQUIPMENT RACK, AND FLOOR GROUNDING STRAP. REFER TO TYPICAL TELECOMMUNICATIONS GROUNDING DETAIL FOR ADDITIONAL INFORMATION.
   E. THE EC SHALL INCLUDE PROVISION OF ALL BONDING CONDUCTORS, BUSBARS, LUGS, ETC. AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.

7. THE OWNER OR OWNER'S SYSTEM SUPPLIER SHALL BE RESPONSIBLE FOR THE FOLLOWING EQUIPMENT. COSTS FOR THIS EQUIPMENT SHALL BE CARRIED THROUGH THE PROJECT CONSTRUCTION BUDGET:
   A. PROVISION OF THE VOICE / DATA EQUIPMENT.
   B. PROVISION OF THE AUDIO VISUAL EQUIPMENT.

8. CCTV SCOPE SHALL BE THE FOLLOWING:
   A. PROVISION OF CCTV NETWORK CABLING, JACKS, ETC CALLED FOR ON THE DRAWINGS AND IN THE SPECIFICATIONS SHALL BE BY THE TC.
   B. ROUGH-IN AND LOW VOLTAGE PATHWAYS AT EACH SECURED DOOR SHALL BE BY THE EC.
   C. ALL CCTV CAMERAS SHALL BE FURNISHED BY THE OWNER.
   D. INSTALLATION OF ALL CCTV CAMERAS SHALL BE BY THE TC.
   E. FINAL CONNECTIONS IN THE TELECOMMUNICATIONS ROOM, PROGRAMMING, SYSTEM COMMISSIONING, ETC SHALL BE BY THE TC.
      a. DEVICES SHALL BE INTEGRATED INTO THE EXISTING CAMPUS-WIDE CCTV VMS.
      b. COORDINATE ALL DEVICE PROGRAMMING AND FUNCTIONALITY WITH OWNER / OWNER'S SECURITY VENDOR.

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1580 STATE ROUTE 56SW
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TECHNOLOGY SYMBOL LEGEND AND GENERAL NOTES

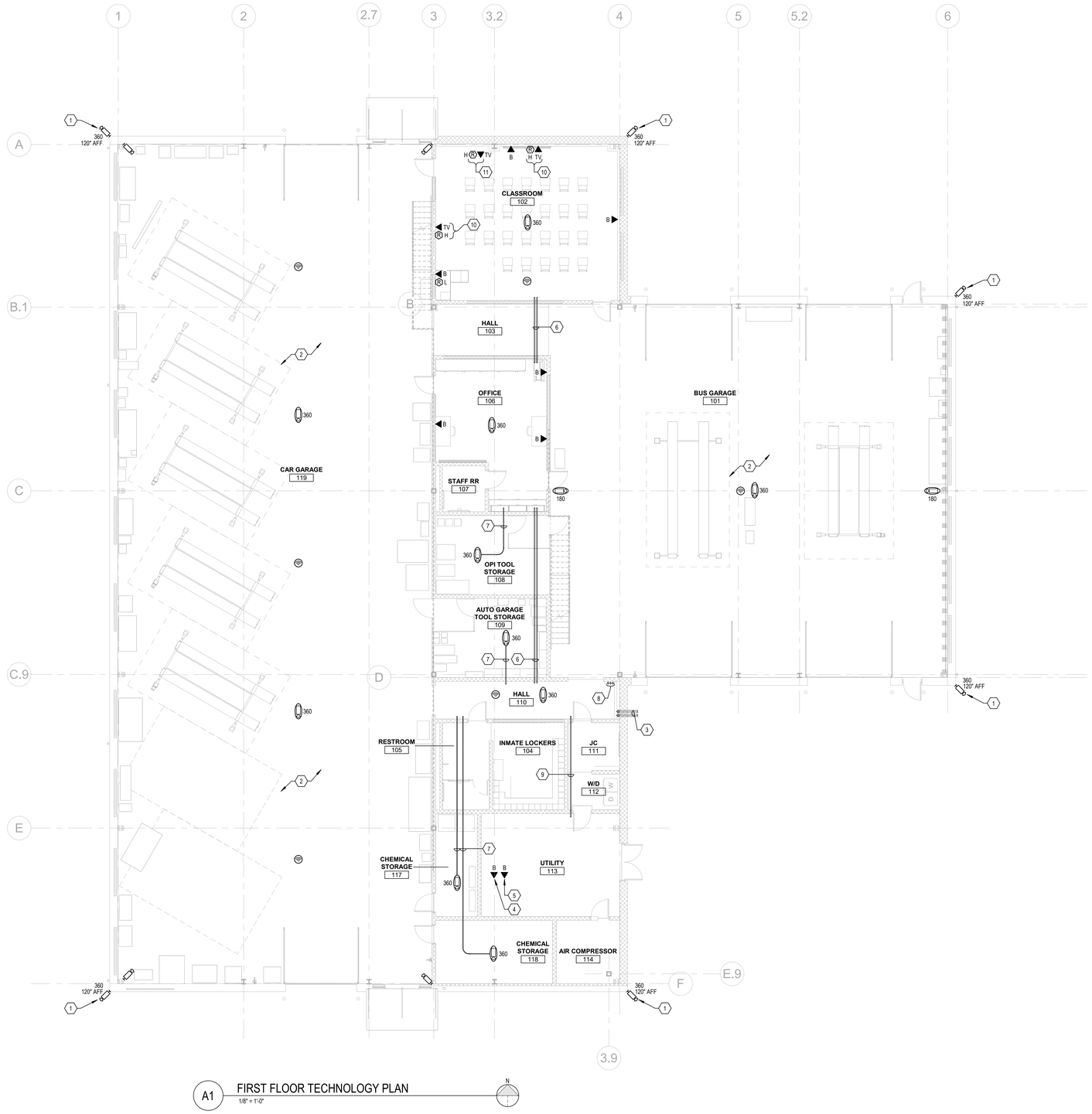
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PERMIT	08/25/2025
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PROJECT MANAGER	DESIGNER
RD	SMT

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A1 FIRST FLOOR TECHNOLOGY PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

A. CONTRACTOR SHALL PROVIDE PROPER FIRESTOPPING OF ALL PENETRATIONS IN FIRE RATED WALLS OR FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. TECHNOLOGY DEVICE LOCATIONS SHOWN ARE SCHEMATIC. COORDINATE WITH ARCHITECTUAL, FURNITURE, AND ELECTRICAL EQUIPMENT FOR FINAL LOCATION.

C. LOW VOLTAGE CABLING OUTSIDE OF TECHNOLOGY ROOM SHALL BE SUPPORTED BY J-HOOK PATHWAY, UON. CABLING SHALL NOT BE SUPPORTED DIRECTLY BY STRUCTURE, PIPING, CEILING GRID, ETC.

D. LOW VOLTAGE CABLING SHALL NOT BE PAINTED. CABLING SHALL BE PROTECTED IN PLACE IF INSTALLED PRIOR TO PAINT BEING APPLIED. ANY CABLING THAT HAS BEEN PAINTED MUST BE INSPECTED BY MANUFACTURER AND CONFIRMED IN WRITING THAT THE WARRANTY IS VALID. ANY CABLING THAT IS NO LONGER UNDER WARRANTY DUE TO PAINT CONTAMINATION SHALL BE REPLACED COMPLETELY AT NO COST TO THE OWNER.

E. BRIDLE RINGS SHALL NOT BE UTILIZED TO SUPPORT TELE/DATA CABLING.

SHEET KEYNOTES (#)

1 WALL MOUNTED EXTERIOR DEVICE - PROVIDE 1" CONDUIT FROM DEVICE BACK BOX TO ACCESSIBLE CEILING SPACE WITHIN BUILDING. PROVIDE LIGHTNING PROTECTION MODULE AT CONDUIT STUB ABOVE ACCESSIBLE CEILING SPACE WITH PATCH CORD TO DEVICE. GROUND LIGHTNING PROTECTION MODULE TO BUILDING STEEL FOLLOWING MANUFACTURER REQUIREMENTS.

2 CEILING MOUNTED CCTV AND WAP DEVICES IN THIS AREA SHALL BE PENDANT MOUNTED AT 15' AFF.

3 TELECOMMUNICATIONS BACKBONE PATHWAY - PROVIDE (2) 4" CONDUITS STUBBED INTO TR 1.1 ON THE FLOOR ABOVE. REFER TO TECHNOLOGY SITE PLAN AND MEZZANINE TECHNOLOGY PLAN FOR ADDITIONAL INFORMATION.

4 DEVICE INDICATED INTENDED FOR TEMPERATURE CONTROL PANEL, BAS PANEL, ETC. - PROVIDE (1) 3/4" CONDUIT FROM PANEL KNOCK-OUT TO CEILING SPACE. TERMINATE DEVICE IN BISCUIT JACK WITHIN EQUIPMENT PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER.

5 DEVICE INDICATED INTENDED FOR FIRE ALARM CONTROL PANEL - PROVIDE (1) 3/4" CONDUIT FROM PANEL KNOCK-OUT TO CEILING SPACE. TERMINATE DEVICE IN BISCUIT JACK WITHIN EQUIPMENT PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER.

6 TELECOMMUNICATIONS PATHWAY BETWEEN ACCESSIBLE CEILING SPACE - PROVIDE (2) 2" CONDUITS TIGHT TO DECK AS NOTED.

7 TELECOMMUNICATIONS PATHWAY - PROVIDE (1) 1" CONDUIT TIGHT TO DECK FROM DEVICE BACKBOX TO ACCESSIBLE CEILING SPACE AS NOTED.

8 TELECOMMUNICATIONS PATHWAY - PROVIDE (3) 3" CONDUITS FROM ACCESSIBLE CEILING SPACE TO TR 1.1 ON FLOOR ABOVE. CONDUITS SHALL STUB UP INTO SPACE AT 6" AFF.

9 TELECOMMUNICATIONS PATHWAY - PROVIDE (1) 2" CONDUIT TIGHT TO DECK FROM HALL 110 ACCESSIBLE CEILING SPACE TO UTILITY 113 AS NOTED.

10 DEVICES INDICATED INTENDED FOR CLASSROOM SMART MONITOR. COORDINATE EXACT LOCATION AND HEIGHT IN-FIELD WITH OWNER PROVIDED EQUIPMENT.

11 DEVICES INDICATED INTENDED FOR CLASSROOM OVERHEAD MONITOR. COORDINATE EXACT LOCATION IN-FIELD WITH OWNER PROVIDED EQUIPMENT.

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FIRST FLOOR TECHNOLOGY PLAN

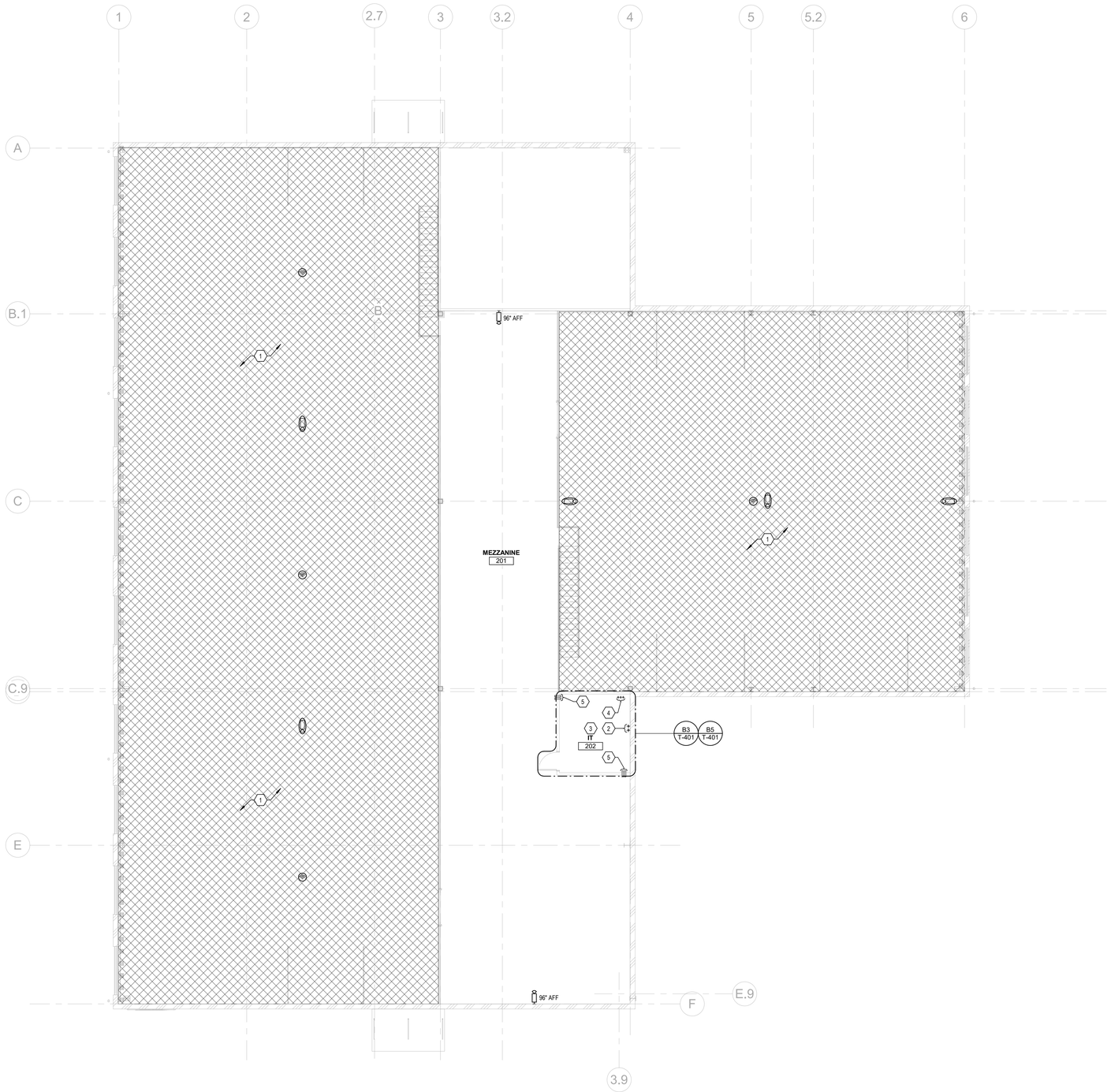
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BID	08/25/2025
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	SMT

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A1 MEZZANINE TECHNOLOGY PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

A. CONTRACTOR SHALL PROVIDE PROPER FIRESTOPPING OF ALL PENETRATIONS IN FIRE RATED WALLS OR FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. TECHNOLOGY DEVICE LOCATIONS SHOWN ARE SCHEMATIC. COORDINATE WITH ARCHITECTUAL, FURNITURE, AND ELECTRICAL EQUIPMENT FOR FINAL LOCATION.

C. LOW VOLTAGE CABLING OUTSIDE OF TECHNOLOGY ROOM SHALL BE SUPPORTED BY J-HOOK PATHWAY. UON. CABLING SHALL NOT BE SUPPORTED DIRECTLY BY STRUCTURE, PIPING, CEILING GRID, ETC.

D. LOW VOLTAGE CABLING SHALL NOT BE PAINTED. CABLING SHALL BE PROTECTED IN PLACE IF INSTALLED PRIOR TO PAINT BEING APPLIED. ANY CABLING THAT HAS BEEN PAINTED MUST BE INSPECTED BY MANUFACTURER AND CONFIRMED IN WRITING THAT THE WARRANTY IS VALID. ANY CABLING THAT IS NO LONGER UNDER WARRANTY DUE TO PAINT CONTAMINATION SHALL BE REPLACED COMPLETELY AT NO COST TO THE OWNER.

E. BRIDLE RINGS SHALL NOT BE UTILIZED TO SUPPORT TELE/DATA CABLING.

SHEET KEYNOTES (#)

1 CEILING DEVICES IN THIS AREA SHOWN FOR REFERENCE ONLY. REFER TO FIRST FLOOR TECHNOLOGY PLAN FOR ADDITIONAL INFORMATION.

2 TELECOMMUNICATIONS BACKBONE PATHWAY - PROVIDE (2) 4" CONDUITS STUBBED INTO IT ROOM 202. CONDUITS SHALL STUB UP INTO SPACE AT 6" AFF. REFER TO TECHNOLOGY SITE PLAN AND FIRST FLOOR TECHNOLOGY PLAN FOR ADDITIONAL INFORMATION.

3 TELECOMMUNICATIONS ROOM TR 1.1 - ALL TELE/DATA CABLING SHALL TERMINATE IN THIS SPACE.

4 TELECOMMUNICATIONS PATHWAY - PROVIDE (3) 3" CONDUITS TO ACCESSIBLE CEILING SPACE ON FLOOR BELOW. CONDUITS SHALL STUB UP INTO SPACE AT 6" AFF.

5 TELECOMMUNICATIONS PATHWAY - PROVIDE (2) 3" CONDUIT SLEEVES THROUGH WALL AS INDICATED.

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MEZZANINE TECHNOLOGY PLAN

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BID	08/25/2025
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PROJECT MANAGER	DESIGNER
RD	SMT

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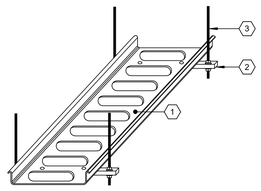


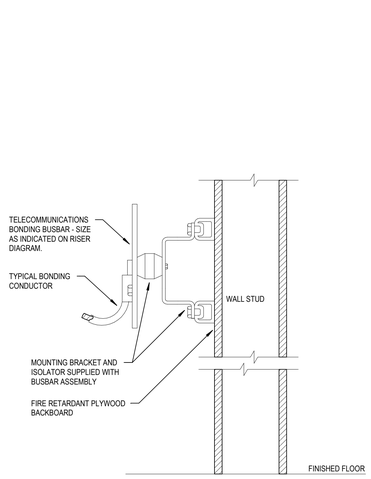
DIAGRAM NOTES:

A. CONTRACTOR SHALL ENSURE THERE IS AT LEAST 12" OF CLEAR SPACE ABOVE AND ON ONE SIDE OF THE CABLE TRAY TO ALLOW PROPER CLEARANCE FOR INSTALLATION OF CABLING.

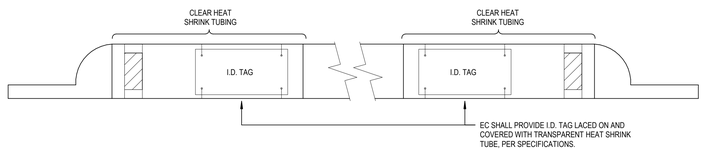
KEY NOTES:

1. VERIFY CABLE TRAY TYPE AND SIZE WITH DRAWINGS AND SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL MOUNTING REQUIREMENTS.
2. UNISTRUT TRAPEZE - TO FASTEN FIELD DRILL AND ATTACH STRUT DIRECTLY TO UNDERSIDE OF TRAY BY MEANS OF NUT AND BOLT AS RECOMMENDED BY MANUFACTURER.
3. PROVIDE (2) THREADED RODS PER UNISTRUT TRAPEZE, TYPICAL. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR RECOMMENDED THREADED ROD SIZING AND TRAPEZE SPACING.

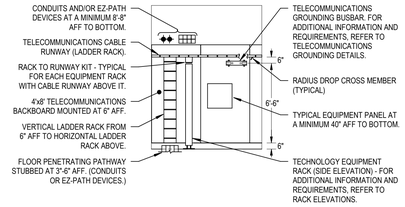
D1 TYPICAL CABLE TRAY MOUNTING DETAIL
N.T.S.



B1 TELECOMMUNICATIONS GROUNDING BUSBAR DETAIL
N.T.S.



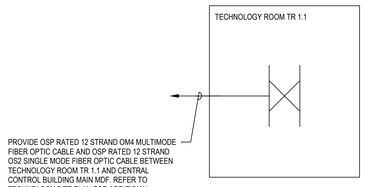
A1 GROUND CONDUCTOR IDENTIFICATION DETAIL
N.T.S.



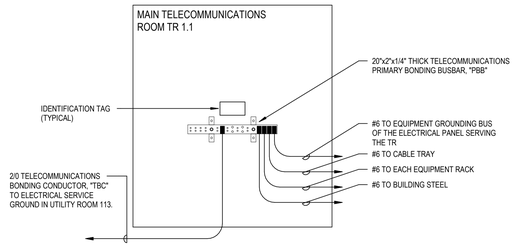
GENERAL NOTES:

A. DETAIL INTENDED TO INDICATE TYPICAL ELEVATIONS OF TYPICAL TELECOMMUNICATIONS DEVICES. REFER TO FLOORPLANS FOR ADDITIONAL INFORMATION REGARDING DEVICE LOCATIONS AND QUANTITIES.

E3 TYPICAL TELECOMMUNICATIONS ROOM ELEVATION
N.T.S.



D3 TELECOMMUNICATIONS BACKBONE RISER
N.T.S.

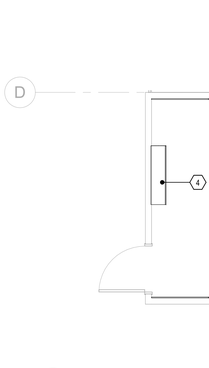


GENERAL NOTES:

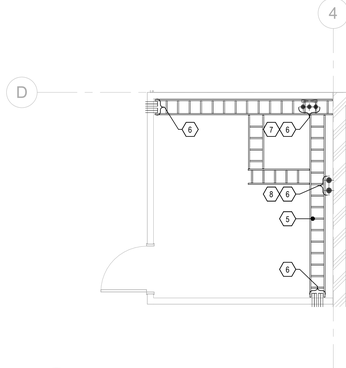
A. ALL HORIZONTAL RUNS SHALL BE SUPPORTED WITH "J-HOOKS" EVERY 5'-0" MAXIMUM. "J-HOOKS" SHALL BE INSULATED TYPE WHERE REQUIRED.
B. CONDUCTOR SIZING IS BASED ON ANSI/TIA-607-D AND IS DEPENDANT ON OVERALL RUN LENGTH. CONTRACTOR SHALL SUBMIT DRAWING FOR REVIEW INDICATING INTENDED ROUTING PRIOR TO ORDERING ANY MATERIALS.
C. BONDING CONDUCTORS SHALL NOT BE DAISY CHAINED.
D. ALL GROUNDING ELECTRODES SHALL BE SECURED TO THE GROUND BAR WITH 2 HOLE IRREVERSIBLE COMPRESSION LUGS.
   - ALL LUGS SHALL POSSESS AN INSPECTION WINDOW TO VISUALLY ASSURE FULL CONDUCTOR INSERTION.
   - ALL LUGS FOR CABLING LARGER THAN #6 SHALL BE SECURED TO THE REAR OF THE BAR.
   - ALL LUGS SHALL HAVE ANTI-OXIDANT APPLIED TO THE MATING SURFACE PRIOR TO INSTALLATION.
E. TELECOMMUNICATIONS GROUNDING CONDUCTORS LOCATED IN PLENUM ENVIRONMENTS SHALL HAVE PLENUM RATED JACKET OR NON-JACKETED CABLING SHALL BE PROVIDED AND INSULATED FROM DIRECT CONTACT WITH CONDUITS, STRUCTURE, CABLE TRAY, OR ANYTHING CONDUCTIVE WITH INNERDUCT OR OTHER APPROVED METHOD. SUPPORT OF GROUND BUSS SHALL BE WITH INSULATED J-HOOK OR OTHER APPROVED METHOD.
F. ALL BONDING CONDUCTORS SHALL BE LABELED AT THEIR TERMINATION POINTS IDENTIFYING THE LOCATION OF EACH CABLE END WITH FROM / TO TERMINOLOGY - IN ADDITION EACH LABEL SHALL HAVE THE FOLLOWING TEXT "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE NOTIFY OWNER'S IT REPRESENTATIVE OR BUILDING FACILITIES IMMEDIATELY". (PANDUIT PART #LTYK, OR APPROVED EQUAL)

NOTE:
ALL TELECOMMUNICATIONS BUSBARS (PBB OR SBB) SHALL HAVE A LAMINATED IDENTIFICATION TAG PERMANENTLY AFFIXED DIRECTLY ABOVE THE BUSBAR STATING: "WARNING: TELECOMMUNICATIONS GROUNDING BUSBAR FOR DATA AND COMMUNICATIONS EQUIPMENT ONLY. NOT TO BE USED AS AN ELECTRICAL SYSTEMS GROUND. IF CONNECTORS OR CABLES SHOW SIGNS OF BECOMING LOOSE, OR REQUIRE REMOVAL, CONTACT THE FACILITIES TECHNOLOGY MANAGER IMMEDIATELY." FOR ADDITIONAL REQUIREMENTS, REFER TO TECHNOLOGY GROUNDING SYSTEM SPECIFICATIONS.

D4 TELECOMMUNICATIONS GROUNDING RISER
N.T.S.



B3 TECHNOLOGY ROOM TR 1.1 EQUIPMENT PLAN
1/4" = 1'-0"



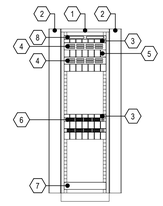
B5 TECHNOLOGY ROOM TR 1.1 PATHWAY PLAN
1/4" = 1'-0"

SHEET KEYNOTES (#)

1 TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB).
2 PROVIDE TELECOMMUNICATIONS 4'x8' 3/4" PLYWOOD BACKBOARD ON ALL WALLS AS INDICATED.
3 TWO-POST EQUIPMENT RACK WITH VERTICAL MANAGERS - REFER TO RACK ELEVATIONS FOR ADDITIONAL INFORMATION.
4 WALL MOUNTED MECHANICAL CRAC UNIT - SHOWN FOR REFERENCE ONLY.
5 12" HORIZONTAL LADDER RACK, TYPICAL.
6 TELECOMMUNICATIONS PATHWAY - REFER TO TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION.
7 12" VERTICAL LADDER RACK MOUNTED FROM 6" AFF TO BOTTOM OF HORIZONTAL TRAY.
8 PROVIDE WALL MOUNT D-RING CABLE SUPPORTS AS PATHWAY FROM INCOMING CONDUITS TO HORIZONTAL CABLE TRAY ABOVE FOR INCOMING BACKBONE CABLING.

RACK ELEVATION KEYNOTES (#)

1 TWO-POST EQUIPMENT RACK - 7' (45RU) 19" RACK WITH BLACK FINISH.
2 6" VERTICAL CABLE MANAGER.
3 1RU HORIZONTAL CABLE MANAGER.
4 2RU 48-PORT PATCH PANEL FOR TERMINATION OF (BLUE) DATA CABLING.
5 2RU HORIZONTAL CABLE MANAGER, TYPICAL.
6 SPACE FOR OWNER PROVIDED NETWORK SWITCH, TYPICAL.
7 SPACE FOR OWNER PROVIDED UPS.
8 1RU FIBER LIU FOR TERMINATION OF BACKBONE FIBER OPTIC CABLING.



A5 TECHNOLOGY ROOM TR 1.1 RACK ELEVATION
N.T.S.

GENERAL SHEET NOTES

A. CONTRACTOR SHALL PROVIDE PROPER FIRESTOPPING OF ALL PENETRATIONS IN FIRE RATED WALLS OR FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. TECHNOLOGY DEVICE LOCATIONS SHOWN ARE SCHEMATIC. COORDINATE WITH ARCHITECTUAL, FURNITURE, AND ELECTRICAL EQUIPMENT FOR FINAL LOCATION.
C. LOW VOLTAGE CABLING OUTSIDE OF TECHNOLOGY ROOM SHALL BE SUPPORTED BY J-HOOK PATHWAY, UON. CABLING SHALL NOT BE SUPPORTED DIRECTLY BY STRUCTURE, PIPING, CEILING GRID, ETC.
D. LOW VOLTAGE CABLING SHALL NOT BE PAINTED. CABLING SHALL BE PROTECTED IN PLACE IF INSTALLED PRIOR TO PAINT BEING APPLIED. ANY CABLING THAT HAS BEEN PAINTED MUST BE INSPECTED BY MANUFACTURER AND CONFIRMED IN WRITING THAT THE WARRANTY IS VALID. ANY CABLING THAT IS NO LONGER UNDER WARRANTY DUE TO PAINT CONTAMINATION SHALL BE REPLACED COMPLETELY AT NO COST TO THE OWNER.
E. BRIDLE RINGS SHALL NOT BE UTILIZED TO SUPPORT TELE/DATA CABLING.

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REV.	DATE	DESCRIPTION

DRC-23L009 LOCI AUTOMATIVE SCHOOL
1580 STATE ROUTE 565W
LONDON OH 43140

TECHNOLOGY ENLARGED PLANS

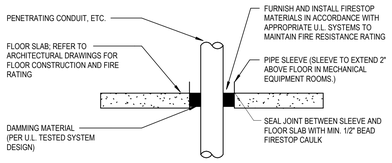
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CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
RD	SMT

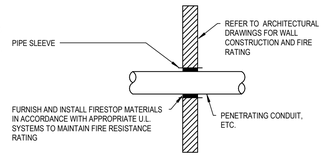
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FLOOR SECTION



WALL SECTION

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES			
SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL < 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL < 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (< 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008

NOTES:

1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

C1 FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION

N.T.S.

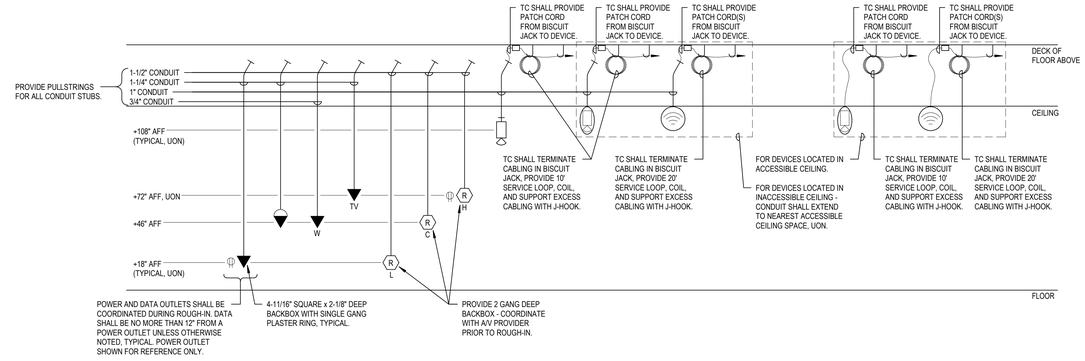
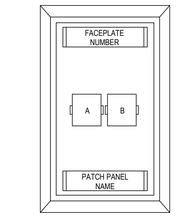


DIAGRAM NOTES:

1. REFER TO TECHNOLOGY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR OUTLET QUANTITY AND LOCATIONS.
3. BLANK COVERPLATES ARE NOT REQUIRED BY THE ELECTRICAL CONTRACTOR.
4. ALL DEVICES INSTALLED IN INACCESSIBLE CEILING SPACES SHALL HAVE CONDUIT AND BACKBOX ROUGH-IN EXTENDED TO NEAREST ACCESSIBLE CEILING SPACE.
5. PROVISION AND INSTALLATION OF TELEPHONE AND COVERPLATES, DATA JACKS AND TERMINATIONS, AS WELL AS RELATED TELEPHONE AND DATA CABLING (PLENUM APPROVED AS REQUIRED, UON), IS BY THE TECHNOLOGY CONTRACTOR.
6. PROVISION AND INSTALLATION OF TELEVISION CABLING (PLENUM APPROVED AS REQUIRED, UON) AND TERMINATIONS ARE BY THE TECHNOLOGY CONTRACTOR.
7. EC SHALL COORDINATE DEVICE LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. EC SHALL PROVIDE PULLBOXES PER NEC.
8. TC SHALL PROVIDE J-HOOK SUPPORT EVERY 5' ON CENTER FOR ALL CABLING WHICH WILL SPAN 5' OR MORE WITHOUT OTHER APPROVED CABLE SUPPORT MECHANISM, UON.
9. PRIOR TO ROUGH-IN OF WALL PHONE PROPER SIDE CLEARANCES SHALL BE VERIFIED. WALLPHONE OUTLETS SHALL HAVE AT LEAST 12" OF CLEAR SPACE ON ALL SIDES.
10. PROVIDE PLASTIC BUSHING AT ALL LOW VOLTAGE STUB LOCATIONS.
11. ALL DIMENSIONS INDICATED ARE TO THE CENTER OF THE DEVICE, UON.

C3 TYPICAL TECHNOLOGY ROUGH-IN DIAGRAM

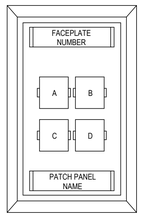
N.T.S.



B TV

TYPE "B", "TV" FACEPLATE DETAIL					
POSITION	JACK TYPE	JACK COLOR	TYPE	CABLE TYPE	CABLE COLOR
A	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE
B	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE

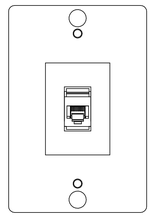
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D

TYPE "D" FACEPLATE DETAIL					
POSITION	JACK TYPE	JACK COLOR	TYPE	CABLE TYPE	CABLE COLOR
A	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE
B	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE
C	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE
D	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE

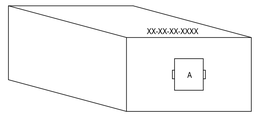
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W

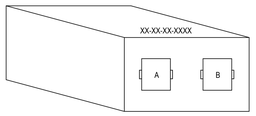
TYPE "W" FACEPLATE DETAIL					
POSITION	JACK TYPE	JACK COLOR	TYPE	CABLE TYPE	CABLE COLOR
A	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE

N.T.S.



TYPE "CCTV" FACEPLATE DETAIL					
POSITION	JACK TYPE	JACK COLOR	TYPE	CABLE TYPE	CABLE COLOR
A	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE

N.T.S.



TYPE "WAP" FACEPLATE DETAIL					
POSITION	JACK TYPE	JACK COLOR	TYPE	CABLE TYPE	CABLE COLOR
A	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE
B	CAT-6 8P8C	BLUE	DATA	CAT-6	BLUE

N.T.S.

A1 FACEPLATE DETAILS

N.T.S.

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1580 STATE ROUTE 565W
LONDON OH 43140

TECHNOLOGY DIAGRAMS AND DETAILS

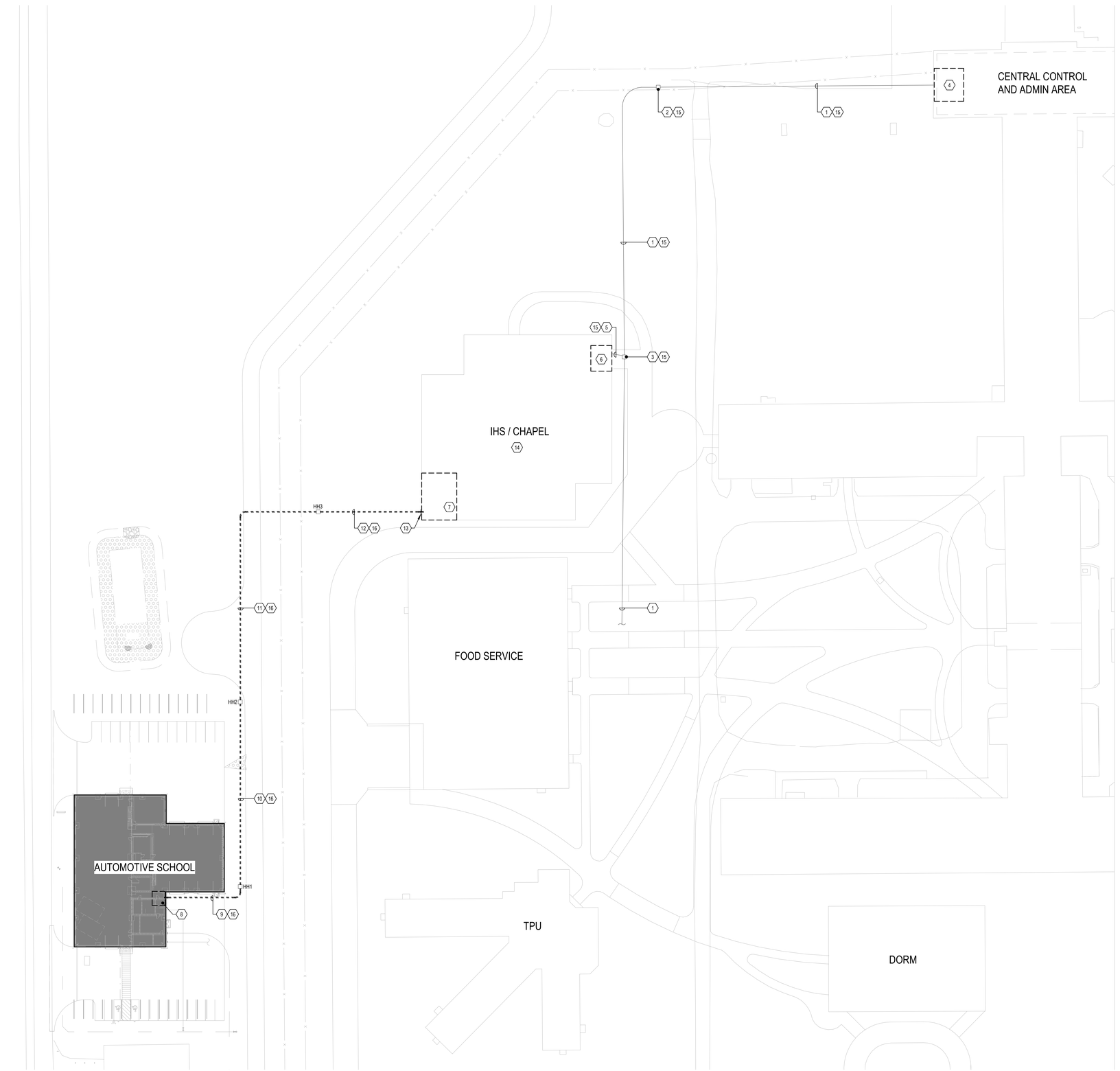
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PROJECT MANAGER	DESIGNER
RD	SMT

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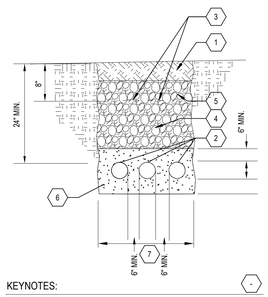
1 TECHNOLOGY SITE PLAN
1" = 40'-0"

GENERAL SHEET NOTES

A. CONTRACTOR SHALL PROVIDE PROPER FIRESTOPPING OF ALL PENETRATIONS IN FIRE RATED WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. UNDERGROUND DUCTBANKS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30" BELOW GRADE. DUCTS SHALL SLOPE TOWARDS MAINTENANCE HOLES TO FACILITATE DRAINAGE.
C. CONTRACTOR SHALL PROVIDE A MINIMUM 48" BEND RADIUS ON ALL UNDERGROUND CONDUITS. COORDINATE ALL UNDERGROUND CONDUITS WITH EXISTING UTILITY LOCATIONS PRIOR TO COMMENCING WORK.
D. ALL DEVICES AND PATHWAYS SHOWN ARE AS A RESULT OF FIELD VISITS MADE BY THE ENGINEER AND DRAWINGS PROVIDED BY THE OWNER TO REPRESENT GENERAL EXISTING SCOPE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXTENT OF THE SITE WORK PRIOR TO SUBMITTING BIDS.
E. CONTRACTOR SHALL COORDINATE CONDUIT DUCTBANKS AND HANDHOLE ELEVATIONS WITH THE FINAL SUB GRADES.
F. ALL DUCTS SHALL HAVE A 200# MIN. TENSILE STRENGTH PULLCORD.
G. CONTRACTOR SHALL REMOVE CEILING TILES AND GRID AS REQUIRED TO COMPLETE WORK. AFTER WORK IS COMPLETE CONTRACTOR SHALL REINSTALL TILES MOVED AS A RESULT OF CONSTRUCTION; DAMAGED TILES AND GRID SHALL BE REPLACED BY THE CONTRACTOR AS NEEDED TO RETURN THE CEILING TO THE STATE IT WAS PRIOR TO CONSTRUCTION.
H. ALL BUILDING PENETRATIONS SHALL BE INSTALLED WITH WATERTIGHT COLLARS AND IN A MANNER TO PREVENT LEAKS. ALL CONDUITS SHALL BE SEALED ONCE ALL CABLING IS PULLED – SEALING MUST PREVENT WATER, DEBRIS, INSECT, OR ANIMAL INGRESS ONCE COMPLETE. ALL SEALS MUST BE REMOVABLE TO ALLOW FULL USE OF THE PATHWAY IN THE FUTURE.
I. ALL EXTERIOR CONDUITS SHALL BE ENCASED IN CONCRETE WHERE ROUTED UNDER ANY DRIVEWAY, ROADWAY, AND PARKING LOTS. CONCRETE SHALL EXTEND 5' PAST EACH EDGE.

SHEET KEYNOTES (#)

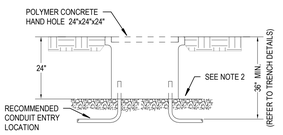
1 APPROXIMATE ROUTE OF EXISTING TELECOMMUNICATIONS DUCTBANK.
2 APPROXIMATE LOCATION OF EXISTING "COMMUNICATIONS PULLBOX #1"
3 APPROXIMATE LOCATION OF EXISTING "COMMUNICATIONS PULLBOX #2"
4 APPROXIMATE LOCATION OF EXISTING CAMPUS MDF LOCATED ON LOWER LEVEL OF CENTRAL CONTROL.
5 APPROXIMATE ROUTE OF EXISTING TELECOMMUNICATIONS PATHWAY STUBBING INTO MAIN IDF OF IHS / CHAPEL BUILDING.
6 APPROXIMATE LOCATION OF EXISTING IHS / CHAPEL MAIN IDF. PROVIDE RACK MOUNT LIU FOR TERMINATION / TRANSITION OF OSP FIBER TO PLENUM RATED FIBER.
7 APPROXIMATE LOCATION OF EXISTING IHS / CHAPEL SECONDARY IDF. PROVIDE RACK MOUNT LIU FOR TERMINATION / TRANSITION OF OSP FIBER TO PLENUM RATED FIBER.
8 APPROXIMATE LOCATION OF NEW AUTOMOTIVE SCHOOL TR 1.1 ON MEZZANINE.
9 TELECOMMUNICATIONS PATHWAY - PROVIDE (2) 4" CONDUITS SUB-GRADE FROM HAND HOLE "HH1" TO TR 1.1 LOCATED ON THE MEZZANINE LEVEL OF THE AUTOMOTIVE SCHOOL. CONDUITS SHALL ROUTE UP INTERIOR CHASE WALL AND STUB INTO TR 1.1 AT APPROXIMATELY 6" AFF.
10 TELECOMMUNICATIONS PATHWAY - PROVIDE (2) 4" CONDUITS SUB-GRADE FROM HAND HOLE "HH1" TO HAND HOLE "HH2" AS NOTED.
11 TELECOMMUNICATIONS PATHWAY - PROVIDE (2) 4" CONDUITS SUB-GRADE FROM HAND HOLE "HH2" TO HAND HOLE "HH3" AS NOTED. CONDUITS ROUTING BELOW THE EXISTING PERIMETER DOUBLE FENCE LINE SHALL BE DIRECTIONALLY BORED. TRENCHING OR TUNNELING UNDER OR BETWEEN PERIMETER FENCES IS NOT PERMITTED.
12 TELECOMMUNICATIONS PATHWAY - PROVIDE (2) 4" CONDUITS SUB-GRADE FROM HAND HOLE "HH3" TO WALL MOUNTED PULL BOX AS NOTED.
13 TELECOMMUNICATIONS PATHWAY - PROVIDE 24"W x 36"H x 8"D NEMA 4X RATED PULLBOX MOUNTED TO EXTERIOR WALL OF BUILDING. STUB (2) 4" CONDUITS FROM PULLBOX INTO EXISTING MECHANICAL ROOM CONTAINING IHS / CHAPEL SECONDARY IDF. COORDINATE EXACT LOCATION IN FIELD WITH OWNER.
14 NEW PLENUM RATED BACKBONE FIBER OPTIC CABLING SHALL ROUTE THROUGH EXISTING IHS / CHAPEL BUILDING FROM SECONDARY IDF LOCATION TO MAIN IDF LOCATION UTILIZING EXISTING PATHWAY WHERE POSSIBLE. PROVIDE PLENUM RATED INNERDUCT FOR ALL FIBER OPTIC CABLING ROUTING THROUGH BUILDING. VERIFY ROUTING IN THE FIELD PRIOR TO BIDDING AND MAKE ALL NECESSARY ADJUSTMENTS TO BID FOR CEILING TRANSITIONS, OBSTACLES, ETC.
15 UTILIZE EXISTING PATHWAY FOR NEW FIBER OPTIC BACKBONE CABLING.
16 PROVIDE (1) 3-CELL MAXCELL FABRIC INNERDUCT IN EACH CONDUIT NOTED IN THIS PATHWAY.



KEYNOTES: (#)

1. TOPSOIL AND SEED OR PAVEMENT, AS PER PLAN.
2. PVC SCHEDULE 80 CONDUITS WITH NYLON PULLSTRINGS. PROVIDE CONDUITS IN CONCRETE ENCASEMENT WHERE ROUTED UNDER ANY DRIVEWAY, ROADWAY, AND PARKING LOTS. CONCRETE SHALL EXTEND 5' PAST EACH EDGE. REFER TO TECHNOLOGY SITE PLAN FOR SIZE AND QUANTITY OF CONDUITS REQUIRED. QUANTITY IN DETAIL INDICATED FOR REFERENCE ONLY.
3. DETECTABLE WARNING TAPE RED WITH BLACK LETTERING INDICATING "COMMUNICATIONS" AND ROUTED ALONG CONDUIT PATH.
4. CLEAN ON-SITE MATERIALS MAY BE USED FOR BACKFILL IN LANDSCAPED AREAS. MATERIALS SHALL BE FREE OF STONES, RUBBLE, AND FROZEN BACKFILL; OTHERWISE, CONTRACTOR SHALL BRING IN CLEAN BACKFILL. COMPACT BACKFILL IN LIFTS.
5. GRANULAR BACKFILL (ODOT ITEM 304 LIMESTONE) TO BE USED UNDER PAVEMENT AND IN RIGHT OF WAY, TO A DEPTH PER ODOT STANDARDS, WITH COMPACTED BACKFILL FOR REMAINDER PER ODOT STANDARDS.
6. SAND BEDDING.
7. EXCAVATE WIDTH OF TRENCH AS REQUIRED. REFER TO TECHNOLOGY SITE PLAN FOR ROUTING AND ADDITIONAL REQUIREMENTS.

3 TECHNOLOGY TRENCH DETAIL
N.T.S.



NOTES:

1. TIER 22. OLD CASTLE MODEL #2424-24 OR EQUIVALENT.
2. #57 WASHED GRAVEL SHALL EXTEND 6" BELOW BOTTOM OF BOXPAD AND 6" BEYOND PERIMETER FLANGE OF BOXPAD.
3. PROVIDE WITH SLIP RESISTANT T22 POLYMER CONCRETE LID MARKED AS APPLICABLE, "ELECTRIC, "COMMUNICATIONS", ETC.

2 COMMUNICATIONS HAND HOLE DETAIL
N.T.S.

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1580 STATE ROUTE 56SW
LONDON OH 43140

TECHNOLOGY SITE PLAN

ISSUED FOR:	
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PROJECT MANAGER	DESIGNER
RD	SMT

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